INTERREG IVB

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INTERREG IVB North West Europe
Application Form

Project title	**Cycle Assessment Procedure for Eco-Materials**		
Acronym	**076C CAPEM**		
Start date	01/Jan/2008	End date	30/Sep/2014
Priority	1 - Capitalising on innovation	Duration	80
Objective addressed	1.1		
Other objective	1.2		
Keyword 1	Carbon footprint		
Keyword 2	Eco-innovation / green technologies		
Keyword 3	SME (small and medium sized enterprises)		
Keyword 4	Natural resource management		
Keyword 5	Knowledge transfer		
Keyword 6	Clusters		

ERDF: 4,546,262; Match funding: 4,546,262; Total: 9,092,524; Grant rate: 50.00 %

1. Project Summary

1.1 Project summary (English, mandatory)

What is the aim of your project? What do you want to achieve?

The aim of the CAP'EM project is to contribute to increase the manufacture, distribution and use of eco-materials in the building industry of North West Europe (NWE), by allowing better demonstration of their benefits. The definition of "eco-materials" is directly linked to eco-designed materials which lead to improve economic and technical performance as well as environmental and health impacts. Through an international investigation, made by Ernst & Young for Cd2e in 2006 to identify why eco-materials were more developed in Northern Countries, and what were in these countries the barriers and the ways to create, develop and promote their specific markets, it appeared that different characteristics and approaches were used. Each approach has interests or specific regional / national characteristics. developing these products and ways of use them will gain from being benchmarked and more commonly promoted and tested through identical ways.
Since eco-materials are widely recognized in many others major sectors of production as electronics, the use of eco-materials terminology to verify low environmental impacts is not well developed in the building sector in Europe. CAP'EM project will begin working on the dissemination of a common definition for eco-material, shared by the major actors involved in eco and low energy building sector in NWE, both for new and renovation buildings.The project will capitalize on those materials presumed as "eco-materials" available in the areas covered by the partners involved in the project ; these materials will be analysed through a common methodology which will allow assessment of their real impacts. In order to foster their business in NWE construction public and private building sector, broad information and demonstration of the performances of the most relevant eco-materials will then be achieved.

What are the topics you want to cooperate on?

Directly linked to the topic of eco-materials considered as "central" for the whole project, the first topic on which partners will cooperate is Life Cycle Analysis (LCA). LCA is a method consisting in the compilation and evaluation of the inputs, outputs and the potential environmental impacts of a product system throughout its life cycle" (ISO 14040: 1997). LCA is known as the reference method by the scientific community for eco-design development. In the construction sector, a simplified LCA based methodology which can be applied more specifically to eco-materials is the first key to help SME'S manufacturer's developing the market of "green products". Environmental declarations exist at the European level but not directly linked to eco-construction : they are not simplified for business developers like SMEs and too expensive. A simplified low cost tool, based on LCA standards can be seen as the key issue for "unlocking" the market of eco-materials for the construction sector.
The second topic of cooperation will be the eco-construction sector and its organization into clusters within each member state. Indeed, this cooperation at a transnational level will be essential in order to implement the best communication strategy, towards four different targets considered : manufacturers, retailers, users and advisers, which are mostly composed of Small and Medium Enterprises (SMEs). Eco-construction means for all the partners involved in the project, low energy design (e.g solar passive design), use of eco-materials (e.g bio-sourced insulation products such as cellulose batts) and renewable energies (e.g solar panels for hot water). As all the energy performance regulations in EU Members States propose ambitious targets in terms of energy consumption (in Kwh/m²/year), for new and existing constructions, the use of eco-materials is compulsory to reach these levels.

Why is transnational cooperation necessary to achieve your aim and tackle the issue?

Transnational cooperation is necessary to capitalize on eco-materials, because it is the only way to take advantage of all resources and knowledge about eco-materials available in the different markets. The markets are very disparate in the NWE area and are related to different social behaviours, standards and regulations in the construction sector, environmental sensitivity of consumers. Taking into account the specificity of the eco-materials available locally, the NWE can be considered as a "local sustainable market". This means cooperation for its understanding (strengths, weaknesses, opportunities and threats), and innovation in the joint work and communication between actors of eco-construction have to be led. The transnational cooperation will also allow the sharing of all resources and knowledge to produce the best tools and ways of promoting and using eco-materials.
Transnational cooperation will also seriously allow the growing of the markets for eco-materials in the construction sector planned within a previous EU-funded project (Interreg III A).The scale of NWE appears to be very appropriate because of its interest on the subject. Performing CAP'EM project will also improve the public acceptance regarding the field of eco-construction.
Additionnally, the partners of the project are convinced that many ideas and solutions will merge from exchanges of professional actors from various countries during transnational workshops and this will add much value to the global process. This added value can only be brought by transnational cooperation. The question is also to develop the “supply chain” of eco-materials for construction” by creating a network of resources centers on the topic, in link with the territorial challenges, and with other partners to give an international visibility.

What are your main actions and outputs?

Main actions :
In WP 1 and 2, CAPEM project partners will produce together a methodology and a tool that can be proposed to professional and non professional mid and end-users, in order to help them qualifying materials as “eco-materials”.
WP3 is dedicated to the dissemination of WP 1 and 2 findings to mid and end users, especially to professionals but also to final users (non professionals, “final customers”). WP3 is specifically dedicated to the development and implementation of a communication strategy, both at the project level and at the level of each partner.
WP 4 is the “key part” of the CAPEM project. Each partner will propose a demonstration building that can be easily identified as a resource center dedicated to the promotion and the understanding of the eco-materials for the construction sector.
Main outputs :
WP1- Simplified LCA based methodology as a webbased free software tool
WP2- LCA results for at least 100 materials verified as "eco-materials", complying with the major European construction systems
WP3- Website (eco-material.eu) as a CAP'EM intranet delivering information and evaluation opportunities for eco-designed materials and eco-construction strategies, exhibition events, design training sessions and media coverage
WP4- Network of demonstration buildings and resource centers for eco-materials in five represented member states, with the same identification "label" : it means using eco-materials in real conditions (new or renovated buildings) and showing, informing, teaching, demonstrating advantages of eco-materials. Demonstration centers where eco-materials have been used will be created to make them accessible to mid and final users. In this way, more demand on the eco-materials demonstrated can be generated.

2. Project Objectives and implementation

2.1 Project Objectives and implementation

What are the territorial challenges you tackle? Why is transnational cooperation necessary for your project?

Traditional construction techniques cannot be considered sustainable. Consequently, eco-construction strategies and technologies are beginning to be widely used at a European level. Across Europe, building construction regulations have the same target : to reduce the energy consumption in the public and private sectors. Designing and building low energy construction is technically possible (e.g Minergie, Passivhaus labels) but it is highly desirable to use eco-friendly technology to reach the lowest environmental impact as possible. Standard low energy construction, without any consideration for eco-materials, have high embodied energy content for all the technologies and materials used, which can represent the equivalent of 40 years of heating. Developing innovative solutions adapted to each country is very strategic, especially towards resources and environment management.
However, so-called eco-materials currently suffer from a lack of knowledge and reliability of information, especially in terms of environmental impact. This explains why the development of their market share is not as high as expected. Clearly, there is a need to foster improvement at a large scale as shown by a market study led at the NWE level (Cd2e, 2005). Transnational cooperation would assist the process. Eco-materials have to be locally developed to generate the best socio-eco-environmental benefits and to fit more with sustainable development criteria according to local specificities, an important reason for getting the project transnational is that the markets fit more to NWE area for some cultural reasons and/or sensitivity of the consumers to environment. This is the best area to work on development schemes between supply and demand, the development and use of eco-materials in different climates and legal / policy aspects requiring cross-national collaboration.

What is innovative about your project?

Innovation in the project appears at different levels, for each WP :
WP 1 : The reduction on the essentials and nevertheless is the innovation in this field. Existing methodologies are too complex for a widespread use; a software for an easy use does not exist yet. The simplicity guarantees real use and must be developed in the project. The idea to work on a harmonised definition then to propose a common methodology and tool, can be considered as an “upgrade” of all the partners on the following topics:environmental management, eco-materials, sustainable criterias, markets data, strategies for developing a more sustainable market.
WP2 : No institution or project dealing with eco-material assessment ever focused on such wide area in Europe as CAPEM project does. The shared methodology is the only way of making a NWE-market comparable and manageable and of getting large potentialities for the materials. This goes beyond what single producers could and would do on their own.
WP3 :The communication with all these actors is very important for the acceptance and the dissemination of the outcomes of the assessment of the eco-materials. Involving all the experts of the value creation chain and developing a common marketing strategy is a way to success. It will increase the credibility and the perceptibility of eco-materials on the market when customers are confronted with repeated and recognizable arguments and information.
WP4 : only few exhibitions of eco-materials do exist and they have never been interlinked. The network adds importance to every single centre. Each showroom design is shared by two partners at least.
Innovation will also come from CEN Workshop Agreement (CWA) at European level (CWA CEN). This document will reflect the consensus of individuals and organizations on a specific topic. It offers market players a flexible and timely tool for achieving a technical agreement where there is no support for standard development.

Does it take into account or cooperate with other EU-funded projects or European initiatives? If so, how does it represent added value?

The project is relevant to the European framework concerning construction materials with regards the Construction Products Directive (CPD) and the Environmental Product Declaration (EPD). In particular, the project will bring a good added value to EPD because it will be able to process the standard data provided. It will also take into consideration the methodologies and tools developed within several EU-funded projects, specifically projects funded by Intelligent Energy Europe Programe : GreenBuilding (2004), ETOOL (energy performance assessment for existing non residential buildings, 2005), LCC Data (running costs of energy efficien buidlings, 2006), GREEN IT (green initiative for energy efficient eco-products in the construction industry, 2005) and Passivhouse Retrofit Kit. Added value will be given by the transnational cooperation, the topic dedicated to eco-materials for construction and the innovation of the common shared methodology.
CD2E has recently participated to two projects within the Interreg III A programme with Business Support Kent as Lead Partner that were focused on the cross-border development of eco-enterprises - among them eco-materials manufacturers. One of the outputs of the project was the revelation of the needs relevant to unlock the business of eco-materials in Europe. CAPEM will go further and identify the need for the development of SME producers of eco-materials.
The CAPEM project takes into account the recently approved interreg-funded initiatives : REGAIN and "livinggreen.eu" projects. Both projects are more downstream by eco-construction and likely to take advantage of the information on eco-materials highlighted by the CAPEM project (WP2) and to take advantage of aditionnal eco-materials (WP4). Contacts have been established between lead partners to validate the interest of collaboration.

2.2 Aim(s), objectives and effects

What are the main aims and objectives of your project? Please number your objectives and use cross-references to your work packages (section 2.5) (For a distinction between aims, objectives and work packages please see Guidance Note 6).

Nowadays, there is a growing interest for eco-materials for construction, but as every new product recently put on the market, their cost is considered too high in comparison with the cost of conventional materials (e.g. mineral wool vs. wood fiber insulation). However,, eco-materials present real benefits that can be proved by a good understanding of their characteristics.
The aim of the project is to contribute to the increase in the manufacture, distribution and the use of eco-materials within the construction sector, specifically for SME's, through transnational cooperation of the identified partners in five major countries of NWE.
The project will impact directly both on the supply and the demand through :
- the development of methodologies and tools dedicated to SME's,
- the implementation of communication strategies that will be led towards all professionals and
- the network of demonstration buildings and resource centers dedicated to eco-construction and energy efficiency.
The objectives of the project are :
1. To set up a commonly agreed and harmonized assessment procedure for building construction eco-materials based on LCA (WP1)
2. To evaluate a selection of at least 100 materials identified as the "best" eco-materials available in NWE (WP2)
3. To disseminate multi-criteria information on the methodology, tools and evaluated eco-materials towards all professional audiences in the construction industry (WP3)
4. To demonstrate the use of the evaluated eco-materials in new building or renovation and to show the evaluation tool developped to target audiences (WP4)

Please describe how the project entails cross-sector integration: horizontal (different sectors), vertical (different levels of governance) and geographical (different regions).

The project will involve the different stakeholders working in the construction sector : manufacturers, retailers, users and advisers. Major topics including energy efficiency, sustainable development principles integration, financial paybacks and greenhouse emissions are also linked : for example, all the partners are interested in developing new criterias based on social accountability and also to determine if a product or a solution is worthable or not, e.g time of return on investment or energy and carbon content. The project will also generate many transnational events (e.g international seminars, practical and demonstration days, professional workshops) involving decision makers along with private enterprises from the different regions involved in the project, which will bring opportunities of Public Private Partnership (PPP) for demonstration and dissemination across each other's markets.
In terms of geographical impacts, the project will bring partners together from five different EU member states (Belgium, France, Germany, The Netherlands, United Kingdom) to cooperate on common approach, communication and development strategies for eco-materials. As they are nationally well known in the eco-construction sector, it is realistic to consider that the positive development effects of the project will impact all the NWE area.

What long-lasting effects will be generated? What will be the impact of the project?

The first impact of the project will come from the recognition of the definition of eco-materials as realistic and proven. Automatically, a greater marketshare for eco-materials all over Europe will be achievable thanks to the capitalisation performed. The long term positive impact (3-4 years) will increase competitiveness within existing SMEs manufacturing eco-friendly materials based on the harmonized assessment procedure, thus contributing to a large-scale local economic development in link with the business of eco-technologies. It will also create the ideal conditions to enable the growing of new SMEs that will consider environmental performance as a business opportunity. The expected long-lasting impacts of the project will be both a higher competitiveness of the eco-construction sector in Europe and a lower contribution by the construction sector in Europe to environment and health impacts, among them carbon emissions. Endorsement by a European association of eco-construction would facilitate dissemination concerning eco-construction materials to other EU member states, and encourage grouping of producers of eco-materials at a european level. This is still to be discussed between project partners.
Project activities will bring a significant contribution to the national strategies and to the EU strategy of eco-buildings. The use of the eco-materials in construction will be demonstrated using the buildings, that will be the key to large exploitation throughout Europe.
Moreover, the relationship between construction activities and sustainable development is significant and complex. Actors who succeed to address the environmental challenge of construction will no doubt influence the future of the sector. The project will also contribute to the development of the European competences in the field of sustainable buildings.

2.3 Contribution of the project to the cross-cutting Programme themes (Lisbon, Gothenburg, Cohesion)

Please describe if and how your project strengthens the economic competitiveness of NWE in response to the Lisbon agenda for growth and jobs and how it capitalises on different regional potentials for development. Please refer to relevant objectives of the agenda or give examples.

Thanks to the capitalisation on eco-materials by the project, the manufacturers and the retailers of eco-materials will be better positionned in order to meet the demands within NWE. And, therefore economic competitiveness of NWE will be strengthened and additional employments will be created locally.
The new SMEs will be oriented to a cluster organization for a higher efficiency and a total number of new employments created of about 100 can be targeted. The Lisbon agenda goal of achieving an employment rate of 70% will then be positively affected.
According to a recent market study led by CD2E (in 2005, within a project funded by Interreg III A programme focused on eco-enterprises), the markets for eco-materials are expected, in the right conditions, to be significantly increased over the following years compared to the current low market share for both new and renovated buildings. The economic growth in this construction sector will be important to encourage continued product development complementing further unlocking to the wider market. Eco-materials production and use has the potential of creating small enterprises thus contributing to the economic dynamism of the local building materials market. Moreover, it is proven that the manufacture of eco-materials is more time-consuming compared to traditionnal materials. It means that the same number of materials will generate more employment than for traditionnal construction, so the growth of employment will be more affected within the limit of economic viability.

Please describe if and how your project increases the environmental sustainability of NWE in response to the Gothenburg agenda for more sustainable development. Please refer to relevant objectives of the agenda or give examples.

The project will clearly contribute to an increased environmental sustainability of NWE. The use of validated eco-materials will have positive impacts on the environment through the aspects of resources saving and environment protection.
For this reason, the project is also relevant for Priority 2 on sustainable management of natural resources and of technological risks. Both areas of climate change (reduction in greenhouse gas emissions) and natural resources (decoupling resource use) of the Gothenburg agenda are then met.
The proper use of validated eco-materials based on simplified LCA will generate lower greenhouse gas emission and also less energy consumption, which are one of the most important criteria of an eco-design procedure. Additionnally, it is encouraging a trend towards better resource saving with both eco-materials made of bio-sourced and recycled content, in accordance with the European "Thematic Strategy on the sustainable use of natural resources" (6th Environment Action Programme) that provides an action plan covering sustainable use of materials.

Please describe if and how your project reduces territorial disparities of NWE by the promotion of transnational actions that will enhance economic potential of local and regional assets.

The current situation of eco-materials development may be described as quite disparate among five represented EU member states (from worst United Kingdom to best Germany), with respect to knowledge and experience to be connected to research. For instance, markets in a country such as the UK seem to be important since eco-materials are almost not manufactured locally and generate transportation if a coherent development strategy is not implemented. For the moment, most of the eco-materials available on the market are manufactured with primary resources coming from another country where they are produced ; then imported without sustainable consideration to markets of use. (e.g hemp insulation : hemp cultivated in France, manufactured in Germany, used in Great Britain or France).
The project will enable five member states to share the same definitions, tools and products, which are likely to be transferred to other areas of Europe. The project will help to concentrate the added value generated by the supply chain of eco-materials directly on local areas alleviating the need to buy and use construction material which is produced 800 km or more from the area of use. The increased cost of non renewable energy such as oil will help the setting of these local schemes. One of the important effects of this cooperation within the project will be a homogeneous and coherent economic development of the supply chain of eco-materials in all concerned regions and hence the reduction of territorial disparities accross NWE.

2.4 Work Packages (WP)

Work Package 1

Development of assessment procedure and methodology

Objective

1. To set up a commonly agreed and harmonized assessment procedure for building construction eco-materials based on LCA
The partners will review eco-construction components and methodologies from across NWE in order to develop a base, commonly agreed and harmonized assessment procedure which will be structured around LCA. The base assessment procedure will be tested through various demonstration projects situated within NWE.
Strong transnational cooperation is vital to the success of this investment element in order to develop a credible assessment procedure. Testing through a range of demonstration projects, set in various partner countries will further contribute to the credibility of the overall project and thus raise the profile of eco-construction across the NWE area.
The WP1 is a necessary step to understand the general topic : eco-construction / eco-materials. It will not reproduce something yet existing (LCA methodologies or tools available), but will capitalize on what has already been done and produce an assessment procedure really adapted to the eco-materials topic. This represent also a real innovation.

Actions & Investments (if applicable)

• Action WP1A1 : Benchmark on existing methodologies of LCA, databases available and computer software developped at European level. Expertise from organisations known for their competences in the filed of eco-design and LCA will be asked for.
• Action WP1A2 : Discussion and design of procedure (definitions of eco-materials for building sector, methodology, tool and database)
• Action WP1A3 : Specification of simplified LCA computer software (Excel sheet)
• Action WP1A4 : Selection of 30 reference known eco-materials at NWE level
• Action WP1A5 : Testing and setting of computer software with 30 reference eco-materials
• Action WP1A6 : Testing and setting of procedure with 30 reference eco-materials
• Investment 1 : Simplified LCA computer software for eco-materials

Transnational added value

The whole process of developping a common unique methodology at a transnational level will firstly facilitate exchange of knowledge on the subjects of eco-materials in relation to the building sector and LCA. It will also generate harmonization of various national methods, allowing the emergence of a new method. The transnational added value in this WP is clear. It would not have been possible to achieve sharing a best practice (key to automate aims) without transnational exchange. The exchange will occur during meetings involving the various partners in which all project partners will play a proactive role. All the partners have identified national "experts" in the topics of eco-design and LCA ; these experts will be asked to participate in WPA1, WPA2 and WPA3 workshops to make benchmarking as complete as possible. Transnational cooperation will then be created specifically with the links to all these experts
Transnational cooperation is a unique way to propose a completely shared definition of eco-materials for the building sector, which is recognised by all the major key players involved in eco-construction promotion within NWE.

Who is doing what?

VIBE (BE) : Coordination of WP1 ; Benchmark, analyse and presentation of existing methodology ; Discussion and design of procedure ; Selection of 30 reference eco-materials ; Testing and setting of computer software. Presentation of Nature Plus label and methodology.
BSK (UK) : Discussion and design of procedure. Presentation of Greenspec "stars" methodology.
CD2E (FR) : Benchmark, analyse and presentation of existing methodology ; Discussion and design of procedure ; Production of computer software ; Selection of 30 reference eco-materials ; Testing and setting of computer software ; Testing and setting of procedure. Presentation of CD2E methodology.
DGS (NL) : Benchmark, analyse and presentation of existing methodology ; Discussion and design of procedure ; Testing and setting of computer software ; Testing and setting of procedure. Presentation of NIBE Twin model methodology.
Globe 21 (FR) : Selection of 30 reference eco-materials ; Discussion and design of procedure ; Testing and setting of computer software ; Testing and setting of procedure. Presentation of "bio sourced materials" methodology.
The experts that will be mobilised within the WP1 for their feedback and knowledge on eco-design procedures and LCA methodology are :
- CODEM and AGRO TRANSFERT of Picardie region (France),- Ecointesys consultancy bureau (Swizterland),- ICAM Lille (France),- Andrew Norton, independent consultant (UK),- Michiel Haas, independent consultant (The Netherlands),- TWEED Cluster, new cluster in the field of eco-design and green technologies labelised by Waloonia region (Belgium),- RDC Environnement (Belgium),- University of Leuven (Belgium),- ASRO (Belgium),- VITO (Belgium).
- AGRODOME (NL) : Benchmark, analyse and presentation of existing methodology ; Discussion and design of procedure ; Testing and setting of computer software ; Testing and setting of procedure.

Geographic scope

Belgium ; United Kingdom ; Northern France ; The Netherlands

Start date and End date	01/Sep/2008	01/Jul/2011
Indicative Budget	772,865	

Linkage to other work packages

Technical basis for all further WPs (the produced software will be used to qualify eco-materials promoted and the agreement on a European definition of eco-materials for building sector is essential for the project)

Outputs

• State-of-art of simplified LCA methodologies among the partners
• Harmonized definitions of eco-material and eco-construction
• Harmonized assessment procedure (methodology, tool and database)
• Computer software specifications
• 30 reference eco-materials
• Validated computer software
• Validated assessment procedure for identification of materials as eco-materials
• Installed computer software (Excel sheet)

Communication

Objective : To show in NWE the common methodology and evaluation procedure to qualify materials as "eco-products".
Message : There are expertise and tools able to qualify materials and products as "eco-materials / eco-products" on the European markets of building construction.
Target : Manufacturers (recognition or "label" for their products towards final users) ; Retailers, users and advisers (simple and reliable information on the available products). Architects and technical offices are considered as "advisers".
Means : Internal quarterly project newsletter ; External half-yearly project newsletter ; International trade fairs ; National trade fairs ; Press release ; B to B meetings between professionals (link between the offer and the demand).
The communication strategies towards the supply chain of eco-construction will use the work resulting of WP1 as an argument of reliability for the recognition of methodology and common definition of eco-materials. This argument is quite important as there are many different methodologies developed across Europe and a common definition of what can be an "eco-material" is not yet available. The aim of communication in this WP is to explain that methodologies and tools for LCA on materials and products do exist but are not well adapted to qualify eco-materials. So the production of a new one, that has to be tested, is necessary.Second aim is to promote a common approach of the definition of eco-material / eco-construction, led by the major organisations involved in this sector on the NWE area.

Work Package 2

Evaluation of identified available eco-materials

Objective

2. To evaluate a selection of at least 100 materials identified as the "best" eco-materials available in NWE
After the testing and design procedure (WP 1) that consist in setting up an harmonized definition on eco-materials, elaborate a simplified methodology of green qualification, create a low cost software tool that enable SME's to qualify their products as eco-materials, the next stape to give weight to the procedure, the assessment methodology and the software is to test it on a selected range of materials for buildings, well known since a long time for their benefits in terms of environmental and health impacts.

Actions & Investments (if applicable)

- Action WP2A7 : Selection of at least 100 eco-materials for all construction systems properly covering the 5 represented member states
- Action WP2A8 : Critical collection of requested data for each of 100 eco-materials
- Action WP2A9 : Evaluation of 100 eco-materials
- Action WP2A10 : Classification of 100 eco-materials
- Action WP2A11 : Market approach for 100 eco-materials

Transnational added value

The transnationality of this WP lays in the way people from different member states will analyse together different materials coming from each one of their countries. At this stage, each partner will learn about the performances and impacts of the materials brought by the others.
The transnational added value will come from the selection of at least 100 materials on the different areas (identification, contacts with manufacturers, discussions, selection). A steering group drawn from within the partnership will cooperate on the selection of eco-materials to be apraised relevant to all the demonstration project needs. The steering group will also contribute to an increased awareness of eco-materials in NWE.

Who is doing what?

BSK (UK) : Coordination of WP2 ; Selection of at least 100 eco-materials ; Critical collection of requested data ; Evaluation of at least 100 eco-materials ; Classification of at least 100 eco-materials ; Market approach for at least 100 eco-materials
CD2E (FR) : Selection of at least 100 eco-materials ; Critical collection of requested data ; Evaluation of at least 100 eco-materials ; Classification of at least 100 eco-materials ; Market approach for at least 100 eco-materials
DGS (NL) : Selection of at least 100 eco-materials ; Critical collection of requested data ; Market approach for at least 100 eco-materials. DGS is linked to SVE-Viba expo which is the national center on eco-materials for the Netherlands.
GBC (BE) : Selection of at least 100 eco-materials ; Critical collection of requested data ; Market approach for at least 100 eco-materials
Globe 21 (FR) : Selection of 100 eco-materials ; Critical collection of requested data ; Evaluation of 100 eco-materials ; Classification of 100 eco-materials. GLOBE 21 has specific knowledge on bio-sourced materials in Picardie region.
HWK (DE) : Selection of 100 eco-materials ; Critical collection of requested data. HWK is the key competence center for trainings on low energy buiding design.
VIBE (BE) : Selection of at least 100 eco-materials ; Critical collection of requested data. VIBE is the Nature Plus label contact point for certification in Flanders.
AGRODOME (NL) : Selection of at least 100 eco-materials ; Critical collection of requested data ; Market approach for at least 100 eco-materials.

Geographic scope

United Kingdom ; Northern France ; The Netherlands ; Belgium ; North Rhenany Westfalia

Start date and End date	01/Jan/2009	01/Apr/2012
Indicative Budget	1,272,953	

Linkage to other work packages

Using of the outputs of WP1 and highly conditioning WP3

Outputs

- At least 100 selected eco-materials to be evaluated
- Requested datas (technical, financial, economic, environmental and health informations) for at least 100 selected eco-materials
- Simplified LCA results for at least 100 selected eco-materials
- Ranking classification of at least 100 evaluated eco-materials
- Markets features for at least 100 evaluated eco-materials

Communication

Objective : To raise awareness of products identified as green eco-materials in NWE markets of eco-construction.
Message : There are available construction materials which have been verified regarding their technical, economical and environnemental performance as eco-materials.
Target : Manufacturers (classification of their materials according to LCA and the subsequent communication) ; Retailers, users and advisers (simple and reliable information on the available products)
Means : Internal quarterly project newsletter ; External half-yearly project newsletter ; Project internet website ; International trade fair (ECOBUILD 2009) ; National trade fairs ; Press release ; B to B meetings between the offer and the demand.
The communication strategies towards the supply chain of eco-construction will directly use the results of WP2. The eco-materials on which communication will concentrate will be determined at a later stage.
The aim in this WP is to inform all communities that the methodology and tool established at WP1 is available and will be tested with a selection of 150 materials that have to be identified (at least 100 eco-materials). Specific communication towards manufacturers of eco-materials will be led at this stage during different trade fairs, exhibitions and conferences already identified that represent a potential of 500 000 visitors (see trade fairs and exhibitions short list in NWE area, available in annex). CAPEM partners and the future network of promotion of eco-materials will be at least exhibitor at minimum 8 trade fairs during the project lifetime: exhibitor means being able to market the CAPEM project, the partners, the tools, the LCA simplified methodology, the eco-materials selected, the network of demonstration centers and the mobile features.

Work Package 3

Dissemination of knowledge on eco-materials among professionals

Objective

3. To disseminate multi-criteria information on the methodology, tools and evaluated eco-materials towards all professional audiences in the building construction sector.
The CAP'EM project distinguishes between internal and external communication actions. The latter includes communication acts which strengthen the cohesion between project partners and their local/regional counterparts, in order to (a) build a lively and robust overall cooperation mode and (b) facilitate seamless and effective interaction patterns between the partners. Internal actions are further described in the communication strategy section.
External communication acts, described in this WP, aim to build understanding of the project's objectives and actions among professionals in (a) the participating regions, to foster active backup and participation during the project, and (b) the wider EU community, to establish awareness of the project, its innovative character, its tangible results, continuing effects and enlarged market opportunities.

Actions & Investments (if applicable)

• Actions WP3A12 to WP3A15 : Design and specification of communication strategies
• Action WP3A16 to WP3A19 : Implementation of communication strategies

Transnational added value

This WP will bring transnational communication strategies for each sector of the construction industry, that will enable benefits to all partner's areas during and after the project. The effects will be higher expected supply and demand of eco-materials on a transnational level.
The transnational dimension will strongly influence the common design of the communication strategies. The cross-regional activities of partners will allow a broader knowledge of the way eco-materials are known and seen, giving the project a real cross-regional visibility, at the scale of NWE.

Who is doing what?

GBC (BE) : Design, specification and implementation of communication strategies (manufacturers and retailers)
ACORP (UK) : Design, specification and implementation of communication strategies (users and advisers)
BSK (UK) : Design, specification and implementation of communication strategies (users and advisers)
CD2E (FR) : Design, specification and implementation of communication strategies (manufacturers and retailers) ; Production of communication strategies
DGS (NL) : Design, specification and implementation of communication strategies (retailers and users)
Globe 21 (FR) : Design, specification and implementation of communication strategies (users and advisers)
HWK (DE) : Design, specification and implementation of communication strategies (manufacturers and users)
VIBE (BE) : Design, specification and implementation of communication strategies (retailers and users)
AGRODOME (NL) : Coordination of WP3 ; Design, specification and implementation of communication strategies (manufacturers and retailers)
GREENSPEC (GB) : Design, specification and implementation of communication strategies (manufacturers, retailers and users)

Geographic scope

Belgium ; United Kingdom ; Northern France ; The Netherlands ; North Rhenany Westfalia

Start date and End date	01/Jan/2010	01/Dec/2012
Indicative Budget	1,454,804	

Linkage to other work packages

Achieving Objective 3 for information thanks to the results of previous WPs

Outputs

• Communication strategies designs towards manufacturers, retailers, users and advisers
• Communication strategies specifications towards manufacturers, retailers, users and advisers
• Communication strategies documents towards manufacturers, retailers, users and advisers
• Communication strategies objects towards manufacturers, retailers, users and advisers

Communication

Objective : To facilitate access to full information on eco-materials / eco-products on the NWE markets of construction
Message : There are available and verified eco-materials to meet the need of the users and retailers on each local market
Target : Manufacturers (information on their products) ; Retailers, users and advisers (verified eco-materials corresponding to their demand)
Means : Internal quarterly project newsletter ; Project intranet website ; External half-yearly project newsletter ; Project internet website ; Transnational leaflets ; Transnational videos ; Transnational workshop ; International trade fair (ECOBUILD 2010 and 2011) ; National trade fairs ; National guides of best practice ; National media (TV and radio) release ; Information days ; Professional publications ; Press release
WP3 will include design, specification, production and implementation of communication strategies towards the supply chain of eco-construction. It will be crucial to the general communication plan with respect to its objectives. The aim in this WP is to ensure promotion of the project : the network of partners and showrooms, investments, the tools and methodologies created, the offer "selected" of eco-materials.
Specific communication towards public and business communities of eco-materials will be led at this stage during different trade fairs, exhibitions and conferences already identified that represent a potential of 500 000 visitors (see trade fairs and exhibitions short list in NWE area, available in annex 1).

Work Package 4

Demonstration and follow-up of the use of eco-materials in NWE

Objective

4. To demonstrate the use of the evaluated eco-materials in new building or renovation and to show the evaluation tool developped to targeted audiences
The eco-materials that will be identified within the WP1 and 2 have to be explained in construction system context : materials are never used alone in a building and their global performances have to be evaluated, explained and measured in real situations. The construction of new building or the renovation of an existing one illustrates this process. In addition, it is also very important to develop appropriate demand. The demonstration of ecobuilding performance at different construction levels will encourage demand by creating the conditions to explain the benefits of more than one eco-material at one development.
The creation of an exhibition room dedicated to learning, understanding and improving skills will assist this process.
The idea is to implement in each area a combination of construction buildings (new or renovated) and showrooms that will be identified as the "key centers" for promotion, demonstration, sensibilisation and use (know how) of eco-materials for designing low energy buildings. Specific partnership will be developed with the energy performance labels available in NWE or Europe for building construction, that promote energy performance but also eco-materials sensitivity (e.g Minergie Eco in Switzlerland).
Moreover, each construction or renovation of the demonstration centers will be managed by a board of experts identified in each region.
The design process will also associate at least two CAPEM partners from two different countries.
At the end of the project, each demonstration building will be integrated in the facility management of each partner.

Actions & Investments (if applicable)

- Action WP4A20 : Design and specification, and construction (new or renovation) of demonstration buildings and exhibition rooms.
- Action WP4A21 : Implementation of demonstration network, at the scale of five member states
- Action WP4A22 : Transnational visits to the building sites at various stages
- Investment WP4I2 : Renovated demonstration building in Northern France (North Pas de Calais)
- Investment WP4I3 : Renovated demonstration building in UK (North)
- Investment WP4I4 : New demonstration building in UK (South)
- Investment WP4I5 : Renovated demonstration building in Belgium (Walloony)
- Investment WP4I6 : Showroom of eco-materials in Northern France (Picardie Region)
- Investment WP4I7 : Renovated demonstration building in Germany
- Investment WP4I8 : Renovated demonstration building in The Netherlands
- Investment WP4I9 : New demonstration building in Belgium (Flanders)
- Investment WP4I20 : Movable and permanent eco-materials exhibition in the Netherlands

Transnational added value

The transnational network of demonstration buildings will increase the credibility of each center and of the materials selected as eco-materials. It will be demonstrated that a high range of eco-materials for building exist and are used and that in the near future these eco-materials will get over the niche situation. CAPEM project will contribute to increase the market share of eco-materials.
Furthermore, the project will not only create a transnational network but it will also initiate regional networks, using demonstration – resource centers as nod points. A new materials and products improvement generally start locally; the local networks developed by single manufacturers can gather the product ideas and reach the transnational network.
Both networks are very important for improving the possibility of developing new transnational products, transferring know how as well as disseminating improved and selected eco-materials / eco-products.
There will be eight demonstration showrooms in five member state countries that will be commonly designed and managed, in particular for the follow up of the eco-materials efficiency. The main reasons for multiple locations are that the eco-materials used will be locally sourced in order to minimize the impact of transport and that various needs should be observed depending on the local climate. The buildings and showrooms will also allow every manufacturer SME of proven eco-materials to understand the different steps needed to put on the European markets their products. At the end of the CAPEM project, each center will have the knowledge and capacity to support the NWE SME's to certification procedures (eg CE mark for European markets, Technical Agreement from CSTB for the French market, BBA for the British market etc...)

Who is doing what?

HWK (DE) : Coordination of WP4 ; Design and specification of demonstration buildings ; Production of a demonstration building ; Implementation of demonstration network ; Transnational visits to the building sites at various stages
CD2E (FR) : Design and specification of demonstration buildings ; Production of a demonstration building ; Implementation of demonstration network ; Transnational visits to the building sites at various stages
BSK (UK) : Design and specification of demonstration buildings ; Production of a demonstration building ; Implementation of demonstration network ; Transnational visits to the building sites at various stages
GBC (BE) : Design and specification of demonstration buildings ; Production of a demonstration building ; Implementation of demonstration network ; Transnational visits to the building sites at various stages
Globe 21 (FR) : Design and specification of demonstration buildings ; Production of a demonstration building ; Implementation of demonstration network ; Transnational visits to the building sites at various stages
SVE (NL) : Design and specification of demonstration buildings ; Production of a demonstration building ; Implementation of demonstration network ; Transnational visits to the building sites at various stages
VIBE (NL) : Design and specification of demonstration buildings ; Production of a demonstration building ; Implementation of demonstration network ; Transnational visits to the building sites at various stages
ACORP(GB) : Design and specification of demonstration buildings ; Production of a demonstration building ; Implementation of demonstration network ; Transnational visits to the building sites at various stages
AGRODOME (NL) : Design and specification of demonstration buildings ; Production of a demonstration building ; Implementation of demonstration network ; Transnational visits to the building sites at various stages

Geographic scope

The Netherlands ; Northern France ; Southern Belgium ; North Rhenany Westfalia ; England

Start date and End date	01/Jan/2009	01/Dec/2012

Indicative Budget	4,091,636

Linkage to other work packages

Achieving Objective 4 for demonstration thanks to the results of WP1 and WP2, and feed-back to WP2 about additional eco-materials used.

Outputs

• Design and specifications of demonstration buildings, including the demonstration showrooms
• Organized demonstration network of five represented member states
• Booklet of the eco-materials demonstration network
• Transnational building sites visit reports
local level actions :
- One day per week will be dedicated to consciousness raising and communication on eco-materials / eco-construction / energy savings to final users, in link with public communities.
- One thematic “technical” event for professionals will be organised each month by each partner. One other partner will be invited to attend the event. Transnational exchange of know how, expertise, technologies and knowledge on eco-materials will then be shared permanently. .
- a specific demonstration show will be organised every two months in each demonstration center: the focus will be on the “way to use” a specific “eco-material”.
transnational actions :
- An international scientific conference will be organised twice a year, in the framework of CAPEM project, each time in a different place. A call for papers will be organised 6 months before, at European and international level.
- Realtime assessment of technical performance : CAPEM partners will update regularly the official CAPEM project website by bringing information concerning hydrothermal characteristics of the walls, ceilings, floors of the different demonstration buildings using eco-materials selected in the CAPEM project.
- Newspaper specialised articles: during and after the CAPEM project, newspaper articles will be proposed to the specialised press. The aim is to reach mid and final users, and also professionals. Specialised and conventional press will be mobilised. A focus on one eco-material selected by CAPEM project or a group of eco-materials will be proposed in partnership with specialised press on eco-construction.

Communication

Objective : To foster the use of eco-materials / eco-products on the NWE markets of construction
Message : There is some relevant information and demonstration brought by the project about the impacts of eco-materials and they can be seen in a demonstration centre of your vicinity.
Target : Manufacturers and users (training on performance and processing of eco-materials) ; Retailers and advisers (information on the performances of eco-materials)
Means : External half-yearly project newsletter ; Project internet website ; Transnational meeting ; Transnational training visits of building sites ; Transnational inauguration of demonstration sites network.
WP4 will put the final touch in the implementation of communication strategies towards the supply chain of eco-construction by demonstrating the use of eco-materials in both demonstration rooms and buildings. It may be said that it will be the most important to some target audiences because it will show the most concrete illustrations of advantages with regards to environmental impacts. It is hoped that the demonstration examples will raise awareness of the value and importance of improving energy performance in buildings in Europe and lead to changes in habits and perceptions. The aim in this WP is to ensure promotion of the project : the network of partners and showrooms, investments, the tools and methodologies created, the offer “selected” of eco-materials.

Work Package 5

Interlinking CAPEM with national Life Cycle tools and databases

Objective

Since the beginning of the CAP'EM project, the number of life cycle (LC) tools related to building products has soared in North West Europe: an excellent opportunity to increase the impact of the CAPEM Building Product Comparison System (WP2). Having CAP'EM data available in national tools in UK, France, Belgium and Netherlands will enable manufacturers of eco-materials access new markets whilst validating the results of the project and the invested budgets.
The first type of LC tool is national level LCA databases, where CAP'EM data will be presented alongside other building products. These often have regulatory and market implications hence facilitating the uptake of eco-materials. The second type of LC tool calculates the environmental impact for constructive systems or whole buildings. Often private initiatives, they require LCA data for building materials as an input
Most only contain data for traditional building materials, so users are not presented with eco-materials as an alternative. The developers of these tools recognise the CAPEM system as a unique source of information for eco-materials.
Each LC tool uses different methods, criteria and system boundaries, depending on when and where it was developed, making data incomparable between tools. By adapting CAP'EM data to fit these different LC tools, and keeping the CAP'EM system as a central, comparable, accessible hub for LCA data on eco-materials; this will reinforce CAP'EM's position. The CAPEM system is based on latest European methods which form the basis of the Product Environmental Footprint recommended by the European Commission 9 April 2013. This will help the SMEs to enter the international market with their eco-materials (eg the Dutch database is not yet in line with the European standards causing problems for SME's working at a European level).

Actions & Investments (if applicable)

Action WP5A23: Benchmark and partnership with databases and LC calculation tools for the building industry (creation of a resource with this information on the CAP'EM website)
Action WP5A24: Adaptation of CAP'EM data for incorporation in the partners' tools (comparison of methods and impact categories between CAP'EM and the external partner, development and validation of recalculation methods, recalculating the data, reporting and delivery towards external partner.
Action WP5A25: Extension of the CAP'EM Building Product Comparison System with 'gate-to-grave' data and bespoke adaptation to each regional tool.
Action WP5A26: Transnational LC in buildings event (holding an event with all the external partners to present and compare the different regional tools)

Transnational added value

Adaptation of the CAP'EM data to regional databases and tools will reinforce the transnational value of the project. Partners will be able to compare in detail the methods and functioning of the different tools which will enable us to improve the CAP'EM Building Product Comparison System. This will put CAP'EM in a unique position of knowledge, as we will be the only group to have such a detailed understanding of the different systems. The pooling of experience between partners in each country will help both the technical elements (thus streamlining the recalculation process), but also help convince the organisations behind the tools and databases to partner with us. To capitalise on this unique positioning, we will hold an event with all the regional partners to present and compare their tools and provide a clear case for working towards harmonisation with CAP'EM as a model.
The German CAP'EM partner will not be directly involved in WP5, hence CAP'EM data will not be actively linked into German tools. To compensate, we will incorporate data on German eco-materials into LC tools in the other four partner countries and if there is interest, other CAP'EM partners can be contacted by German LCA tool developers to supply their databases with CAP'EM results.

Who is doing what?

Agrodome (NL) will be lead partner for WP5.
Agrodome: Formalise benchmark of LC tools for the building industry in the Netherlands (research already completed). Formalise partnerships with 1 LC calculation tool (www.ibuildgreen.eu) and 1 LC database (official Dutch Nationale Milieu Database (NMD)). Adapt 10 pilot CAP'EM datasets for incorporation in these tools. Manage the improvement of the CAP'EM Building Product Comparison System with inputs from VIBE, Greenspec, Renuables and cd2e. Mobilise of Dutch partners and participants for the transnational "LC in buildings" event.
VIBE (BE): Benchmark LC tools for the building industry in Belgium. Formalisation of partnerships with 1 LC calculation tool (Be.Global with Walloon Plâteforme Maison Passive) and 1 LC database (the official Flemish MMG system). Adapt 10 pilot CAP'EM datasets for incorporation in these tools. Participate in improving the CAP'EM Building Product Comparison System. Mobilise Belgian partners and participants
for the transnational LC in buildings event.
Greenspec with support from Renuables (UK): Benchmark LC tools for the building industry in the UK. Formalise partnerships with 1 LC calculation tool and 1 database. Adapt 10 pilot CAP'EM datasets for incorporation in these tools. Participate in improving the CAP'EM Building Product Comparison System. Mobilise UK partners and participants for the transnational LC in buildings event.
CD2E (FR): Benchmark LC tools for the building industry in France. Formalise partnerships with 1 LC calculation tool and 1 database. Adapt 10 pilot CAP'EM datasets for incorporation in these tools. Participate in improving the CAP'EM Building Product Comparison System. Hold the transnational LC in buildings event, based on experience in organising the international LCA Conference in Lille.
HWK Munster, Acorp, BSK and Globe 21 will not take an active role in this work package, but will relay information in their regions under their activities in WP3.

Geographic scope

North West Europe

Start date and End date	01/Sep/2013	01/Jul/2014
Indicative Budget	545,551	

Linkage to other work packages

Direct use of the outputs of WP1 and WP2.
Strong linkages with WP3 and WP6.

Outputs

1 benchmark of LC tools for the building industry in the UK, France, Belgium and the Netherlands
Partnerships with 8 organisations (2 in each participating country: UK, France, Belgium, the Netherlands)
8 recalculation methods developed and approved by partners
80 regional references for eco-materials (at least 10 materials in each tool/database)
CAP'EM Building Product Comparison System enhanced to include end of life data ("gate to grave")
"Gate to grave" data included for 20 pilot materials in the CAP'EM Building Product Comparison System
1 transnational event with 150 participants

Communication

OBJECTIVE: MAXIMISE THE IMPACT AND UTILISATION OF ECO-MATERIALS IN NWE
Messages and targets:
The following key messages per target group will be developed:
 FOR MANUFACTURERS, RETAILERS AND DISTRIBUTORS: You will be able to access new markets as CAP'EM data will be available in national tools in UK, France, Belgium and Netherlands
 FOR BUILDING SECTOR PROFESSIONALS, ADVISORS AND USERS: You will be are presented with NEW eco-materials as an alternative of conventional building materials
 FOR THE PRIVATE AND GOVERNMENTAL ORGANISATIONS DEVELOPING LIFE CYCLE TOOLS AND DATABASES: the CAP'EM system is the most central, comparable, accessible hub for LCA data on eco-materials and the best source of information for eco-materials in North West Europe
 FOR FEDERATIONS, ADMINISTRATIONS AND POLICY MAKERS: The CAPEM system is based on European regulations, which helps the SMEs enter the international market with their eco-materials
Means: direct lobbying with partners, official institutions, federations and producers, participation at important regional and European LCA related events and trade fairs, CAP'EM website, project newsletter, press releases.
Communication for WP5 will focus on structures that will be important relay actors for diffusing environmental information about building materials to manufacturers, retailers, users, policy makers and advisors. In this way, we will create a sound tool for SMEs active in eco-construction materials, to strengthen their position on the building market. This will give the SMEs a long term perspective and create a better market for eco-materials. Importantly, we will create long term vectors for the CAP'EM "message" that will continue beyond the project Interreg funding.

Work Package 6

Establishment of a CAP'EM Environmental Product Declaration (EPD) Programme

Objective

The demultiplication of environmental labels has led to consumer mistrust and confusion. To foster sustainable consumption and production, the trend is to move towards providing quantitative, comparative LCA-based environmental information, as demonstrated by the environmental labelling initiative in France and the Single Market for Green Products Initiative by the European Commission.
The most used format for providing this LCA data is through voluntary Environmental Product Declarations (EPDs), as defined by ISO 14025. The recent publication of the European standard EN 15804:2012 means that for the first time all EPDs on construction materials will be harmonized across Europe.
Added value for the producers of eco-materials: EPDs are increasingly used to guide procurement in public and private sectors, but the high cost is a barrier for SMEs.
Linking into the existing, recognised EPD system ensures that CAP'EM will not create confusion in the marketplace. Creating an SME eco-material friendly, North West European EPD provider will enable manufacturers to have their environmental credentials recognized according to the EN15804:2012 and via the CAP'EM System creating more choice for manufacturers, not more constraints.
Added value for the Programme: CAP'EM will be an officially recognized actor for the environmental declaration of building materials, and the only one specialised in eco-materials and SMEs. It builds on the technical work achieved in WP1 and WP2. Creation of a long term governance structure (Action WP6A1) with external stakeholders will enhance our credibility, sphere of influence and overall impact of the project.
WP6 will establish CAP'EM as a long term player in this field, and ensure the longevity and pertinence of the CAP'EM System

Actions & Investments (if applicable)

Action WP6A27: Establishing a Programme Operator (developing an organisational structure according to the requirements of EN 14025, consisting of a Management Committee, an Advisory Committee, a Technical Committee, a Secretariat and a PCR review panel)
Action WP6A28: Production of a General Programme Instructions (GPI) (development of the GPI and open consultation)
Action WP6A29: Development of Product Category rules (PCRs) (development of PCR, based on existing CAP'EM method and including end-of-life, open consultation, review and finalisation by the Technical Committee)
Action WP6A30: Production of EPDs from CAP'EM data (Extending existing studies to include gate to grave assessments and any other changes in PCRs)

Transnational added value

It is the transnational nature of CAP'EM that will make this EPD programme so unique and important in North West Europe- and potentially internationally.
Less than a dozen EPD program operators relevant to construction products exist across Europe and all but one have a uniquely national focus. This means that manufacturers only have the choice between their national building EPD scheme and the Swedish 'international' EPD programme operator (www.environdec.com), a non-specialised system with only 28 different manufacturers of building products (mostly Swedish) in its database since its creation in 2006. Converting the 20 CAP'EM LCAs into EPDs will establish the project as the leader in Europe, and the links with national level databases in WP5 will ensure excellent articulation between local and regional information.
The current national approach for EPDs, makes it difficult for users to access information for products coming from different countries, or inversely for a product manufacturer to have visibility across North West Europe. Only CAP'EM is in a position to be able to quickly develop a legitimate EPD programme with such a wide geographical scope and an important number of EPDs.

Who is doing what?

VIBE will be the lead partner for this work package, with strong technical support from Renuables.
VIBE (BE): Management of work package delivery and Secretariat of the CAP'EM EPD system programme. Participation in Management Committee, Technical Committee and PCR review panel. Development and consultation of the General Programme Instructions. Development and consultation of the Product Category rules. Production of 5 EPDs from CAP'EM data for Belgian materials, and possibly German materials.
Greenspec with support from Renuables (UK): Participation in Management Committee, Technical Committee and PCR review panel. Development and consultation of the General Programme Instructions. Leader in the development and consultation of the Product Category rules. Production of 5 EPDs from CAP'EM data for UK materials.
CD2E (FR): Participation in Management Committee and Technical Committee. Development and consultation of the General Programme Instructions. Development and consultation of the Product Category rules. Production of 5 EPDs from CAP'EM data for French materials.
Agrodome (NL): Participation in Management Committee, Technical Committee and PCR review panel. Development and consultation of the General Programme Instructions. Development and consultation of the Product Category rules. Production of 5 EPDs from CAP'EM data for Dutch materials, and possibly German materials.

Geographic scope

North West Europe

Start date and End date	01/Sep/2013	01/Aug/2014
Indicative Budget	545,551	

Linkage to other work packages

Direct use of the outputs of WP1, WP2 and WP5.
Strong linkages with WP3.

Outputs

Internationally recognised CAP'EM EPD Programme Operator Established
General Programme Instructions developed and approved
Product Category rules developed and approved
20 EPDs produced

Communication

Objective: Create an internationally accepted EPD programme, enabling eco-materials to access new markets
Message: CAP'EM is the best source for creating EPD's for eco-building materials in the European market.
Target: Manufacturers, retailers, users, policy makers and advisors.
Means: direct lobbying with partners, participation at important regional and European LCA related events and trade fairs, CAP'EM website, project newsletter, press releases
There will be three phases of communication for this WP.
The first phase will be focussed on integrating the right stakeholders into the organisational structure to ensure that the CAP'EM EPD programme will be well accepted. Contact with these actors is already well established through WP1, WP2, WP3 and WP 4 activities, and many have expressed their wish to be involved in actions to extend CAP'EM (especially the 60 manufacturers listed that express interest in the CAPEM method and EPD).
The second phase will need to open up to a wide expert audience for the consultation of the General Programme Instructions and Product Category rules. The networks of all stakeholders in the organisation structure will be key for this, and also national and international contacts that have already been made during WP1, WP2 and WP5 activities.
Finally, a strong communication will be made when the 20 EPDs are released and available free of charge on the CAP'EM website. We will use the transnational event in WP5 to communicate to technical audiences, and in each country have important press releases and participation at relevant trade fairs and events.

2.5 Action PLan

Action name 1	Presentation of existing methodologies / benchmark

Names of partners involved

CD2E ; DGS ; VIBE ; BSK ; GLOBE 21

Description

The involved partners will present the methodologies they have experienced in a constructive way. This work will enable highlitghting the different LCA methodologies available in each different area for the building construction sector. Each methodology and related tools will be analysed within a specific scheme. Experts identified by each partner (mentioned in the project as "sub partners") will help in this process. The aim is to be able to compare the LCA methodologies and tools and to select the ones that appear "essentials". Scientific approach is necessary but not exclusive, easy to use tools will also be analysed and tested. Each kind of methodologies (limits, kind of impacts...) used in LCA and known by the partners will be reviewed to compile the best for a simplified LCA applied to building construction eco-materials.
CAPEM project partners, with the collaboration of recognized experts at European and International level, will first identify, analyse and describe, the existing and available methodologies and tools dedicated to construction materials and products. The result of this benchmarking exercise will be a “state of the art” of the available methodologies and tools. Using a SWOT analysis scheme (Strengths / Weaknesses / Opportunities / Threats), project partners will identify what is good to transfer / capitalize or not, in order to produce a “harmonized methodology” dedicated to the analysis of eco-materials.

Concrete Outputs (as listed in WP)

State-of-art of simplified LCA methodologies and tools available in each area, for each partner.

Start date	01/Jan/2009
End date	01/Mar/2010
Work package number	1

Location of Action - NUTS III (if applicable)

Northern France ; The Netherlands ; Belgium

Action name 2	Discussion and design of procedure (definitions, methodology, tool and database)

Names of partners involved

CD2E ; BSK ; DGS ; VIBE ; GLOBE 21 ; AGRODOME

Description

The involved partners will discuss and design a specific procedure using the simplified LCA methodology to assess and classify eco-materials upon their impacts. For instance, this will include the assessment of the datas available at the european level. The partners wil present their own definition of an eco-material dedicated to eco-construction. A common definition will be presented after discussions on the criterias possibly shared at NWE level. Behind eco-materials, a common definition of eco-construction will be then proposed. These common definitions will be used to communicate towards the professionnals of the construction sector. The limits of the analysis will be discussed to select the most relevant elements to keep for a simplified LCA methodology ; the kind of impacts which will appear in the results will be discussed to choose the most relevant for a good understanding by a non-expert of LCA.
Discussions about including others sustainable criterias like safety, social affairs or local sourcing (how many hours of work to produce the materials) will also be included. Once the SWOT analysis will be completed, discussions with the CAPEM partners involved in this WP (VIBE-CD2E – DGS – Globe 21) and experts involved in phase 1 will be engaged with the aim of setting up common needs concerning the harmonized methodology and completing its description. Specification will also include the description of the characteristics of the simplified “easy to use” software dedicated to the analysis of materials that are produced by small and medium manufacturers in NWE.

Concrete Outputs (as listed in WP)

Harmonized definitions of eco-material and eco-construction and harmonized assessment procedure (methodology, tool and database)

Start date	01/Mar/2009
End date	01/May/2011
Work package number	1

Location of Action - NUTS III (if applicable)

Northern France ; United Kingdom ; The Netherlands ; Belgium

Action name 3	Specification of simplified LCA computer software

Names of partners involved

CD2E ; VIBE ; DGS ; BSK ; GLOBE 21; AGRODOME

Description

After the joint specification work and description of the common needs, the work will concentrate on the production of an excel based grid of analysis with selected criteria. This excel based grid will be considered as the first computer software “easy to use”, dedicated to test the methodology with a panel of 30 reference known eco-materials. This version of the computer software will not be directly available at this stage for the intermediary users (architects, technicians involved in eco-construction design). It is only dedicated to the realisation of a “test” with the manufacturers selected. (link to selection of 30 eco-materials).
The involved partners will specify the requirements of the needed computer software. The first version of the tool will be Excel linked worksheets. A more "sexy" version will later be produced by a computer software expert. It will represent a user friendly tool.

Concrete Outputs (as listed in WP)

Specifications of simplified LCA computer software, first version of the assessment tool in Excel format.

Start date	01/May/2009
End date	01/Nov/2010
Work package number	1

Location of Action - NUTS III (if applicable)

Northern France ; Belgium

Action name 4	Selection of 30 reference known eco-materials

Names of partners involved

CD2E ; Globe 21 ; VIBE ; BSK ; DGS

Description

The involved partners will select 30 reference eco-materials representing all types of construction systems , available or well known in the eco-construction wolrd. The idea is to test the software and the procedure elaborated. These eco-materials will be chosen accross the five countries, during working cessions, in order to cover all types of construction systems and on the basis of the knowledge available. The way of considering a product or a material if different applications are available will be precised. The different fonctionnalities of a building (major components systems) will also be defined (materials for the structure, insuflation, covering, waterproofing...).
A selection of 30 known eco-materials will be operated by the CAPEM partners involved in this WP, but also with the others, especially with the partners that have privileged relationships with manufacturers of known eco-materials in NWE (E.G HWK demozentrum in Munster or SVE Viba Expo in the Netherlands). This work will also be facilitated by the first qualification of the European eco-construction market and production networks – distribution realized in 2006 by the Cd2e ; the study conducted by an external expert and well known consultancy company (Ernst & Young) give to CAPEM partners a very good map in terms of market data on the producers and distribution players of eco-materials in Europe.

Concrete Outputs (as listed in WP)

30 reference eco-materials, selected at NWE level by work sessions and share of experiences and knowledge.

Start date	01/Jul/2009
End date	01/Jun/2010
Work package number	1

Location of Action - NUTS III (if applicable)

Northern France ; Belgium

Action name 5	Testing and setting of computer software with 30 reference eco-materials

Names of partners involved

CD2E ; DGS ; Globe 21 ; VIBE ; BSK; AGRODOME

Description

The involved partners will test the software with the selected 30 eco-materials and adapt it. This will be managed in an iterative way of working, by using a Plan - Do - Check - Act methodology (continuous progress) used in quality management systems. The result will be submitted to non-experts of LCA methodologies (end users of materials and products in the building construction sector) in order to validate the understanting of the results. The 30 eco-materials selected will be tested with the innovative methodology and excel tool elaborated at early steps. Results from this final step of WP1 will allow to extend and use the “harmonised procedure” now available on a wide range of materials. This will be done in WP2.
This action is crucial : after actions 1 to 4 (state of the art, benchmark, evaluation of existing tools and methodologies of simplified LCA...) the aim is to test the methodology and tool established within WP1. For that, a selection of 30 well known and representative eco-materials has to be done. This selection "panel" is usefull to test the methodology and (assessment procedure) and the tool (computer software). Iterative way of working mean permanent improvement and use of the results obtained with the first eco-materials of the 30 selected, as "test" that can contribute to new improvement. We can consider that each test (3 tests for 30 eco-materials) will contribute to the global improvement.

Concrete Outputs (as listed in WP)

Validated computer software, excel version, ready to use, with other materials.

Start date	01/Sep/2009
End date	01/Jul/2011
Work package number	1

Location of Action - NUTS III (if applicable)

Northern France ; The Netherlands ; Belgium

Action name 6	Testing and setting of assessment procedure with 30 reference eco-materials

Names of partners involved

CD2E ; DGS ; Globe 21 ; VIBE ; BSK; AGRODOME

Description

The involved partners will test the procedure with the selected 30 eco-materials and adapt it. This will be managed in an iterative way of working.
This action is crucial : after actions 1 to 5 (state of the art, benchmark, evaluation of existing tools and methodologies of simplified LCA...) the aim is to test the methodology and tool established within WP1. For that, a selection of 30 well known and representative eco-materials has to be done. This selection "panel" is usefull to test the methodology and (assessment procedure) and the tool (computer software). Iterative way of working mean permanent improvement and use of the results obtained with the first eco-materials of the 30 selected, as "test" that can contribute to new improvement. We can consider that each test (3 tests for 30 eco-materials) will contribute to the global improvement.

Concrete Outputs (as listed in WP)

Validated assessment procedure

Start date	01/Nov/2009
End date	01/Jul/2011
Work package number	1

Location of Action - NUTS III (if applicable)

Northern France ; The Netherlands ; Belgium

Action name 7	Selection of 150 eco-materials for all construction systems properly covering the 5 member states

Names of partners involved

CD2E ; BSK ; DGS ; GBC ; Globe 21 ; HWK ; VIBE; AGRODOME

Description

The involved partners will commonly select about 150 eco-materials (at least 100), with the basis of the definition proposed (action name 1) available in NWE.
Those materials will cover all the fonctionnalities of a building (which have been defined in WP1A4), the major construction systems will be covered by this 100 materials.
This work will be facilitated by each partners specific networks : e.g VIBE is the representative organisation of the NATURE PLUS label for Flanders (Belgium), HWK is the key competence center for energy performance learning in Germany.
The same process of selection and work will be used by each partner.

Concrete Outputs (as listed in WP)

At least 100 selected eco-materials to be evaluated (best 150 eco-materials).

Start date	01/Sep/2009
End date	01/Nov/2010
Work package number	2

Location of Action - NUTS III (if applicable)

Northern France ; United Kingdom ; The Netherlands ; Belgium ; North Rhenany Westfalia

Action name 8	Critical collection of requested data for 150 eco-materials

Names of partners involved

CD2E ; BSK ; DGS ; GBC ; Globe 21 ; HWK ; VIBE; AGRODOME

Description

The involved partners will collect the requested data for the selected 150 eco-materials from their country, which will be time-consuming. The collected data will be checked by comparison with the literature before their validation.
Each partner is first in link with the manufacturers of its territory and can be helped by the other partners, depending on the situation.
The methodology of collection will be shared (way to contact the manufacturers, questionnaires available, types of datas requested...).
The partners that already have a good experience in contacting manufacturers of materials and eco-materials will share their experience and tools.
Some of the partners (Greenspec, CD2E, VIBE, SVE, HWK) know that direct meetings at trade fairs, exhibitions or specific rendez vous are better thant email or fax contact.
We also know that some websites are particularly visited by manufacturers, as benchmark tools for online realtime evaluation of new products as "comptetition watch".
The idea is to define and use common "marketing mathodology and tools" to "sell" the CAPEM project to the manufacturers of presumed eco-materials., wich will be done.

Concrete Outputs (as listed in WP)

Requested datas for at least 100 selected eco-materials

Start date	01/Sep/2009
End date	01/Dec/2011
Work package number	2

Location of Action - NUTS III (if applicable)

Northern France ; United Kingdom ; The Netherlands ; Belgium ; North Rhenany Westfalia

Action name 9	Evaluation of 150 eco-materials

Names of partners involved

CD2E ; BSK ; DGS ; GBC ; Globe 21 ; HWK ; VIBE; AGRODOME

Description

The involved partners will evaluate the 150 eco-materials by using the assessment procedure (first tested with 30 eco-materials) with the collected data.
Each partner evaluate the eco-materials manufactured on their own territory. E.g Cd2e will evaluate in partnership with GLOBE 21 specificaly eco-materials selected in North Pas de Calais and Picardie regions.
The materials will be considered by typologies of construction systems, to allow end users to compare whole construction buildings.
New elements (Plan Do Check Act) will be modified in the methodology and computer software (version 1) if some details appear to complete the first test on 30 eco-materials.

Concrete Outputs (as listed in WP)

Simplified LCA results for at least 100 selected eco-materials

Start date	01/Jan/2010
End date	01/Dec/2011
Work package number	2

Location of Action - NUTS III (if applicable)

Northern France ; United Kingdom ; The Netherlands ; Belgium ; North Rhenany Westfalia

Action name 10	Classification of 150 eco-materials

Names of partners involved

CD2E ; BSK ; DGS ; GBC ; Globe 21 ; HWK ; VIBE; AGRODOME

Description

The involved partners will classify the 150 eco-materials upon the simplified LCA results of their evaluation. The materials will be considered by construction systems. Classification will take into account environmental and health criterias but also technical and economical values that can't be dissociated.
This classification method will be uniq and doesn't exist yet : moist of the time, "eco-materials" or equivalents are presented as the best "eco-solutions" in terms of environmental and health impacts. For professionals users, environmental and health criterias begin to be important in 2008 for example in France ; but most consideration when a choice has to be done is put on other criterias : economic (cost), financial (existing subsidies) and technical (performance, an insulating product is used to insulate walls, roofs..).
We believe that it is possible to demonstrate that eco-materials are at minimum as good as the conventionnal products in technical terms, are less expensive in the mid terme, and give major environmental and health benefits as most of the custormers pay attention to this today.

Concrete Outputs (as listed in WP)

Ranking classification of at least 100 evaluated eco-materials : grid of multicriterias analysis.

Start date	01/Jun/2010

End date	01/Feb/2012
Work package number	2

Location of Action - NUTS III (if applicable)

Northern France ; United Kingdom ; The Netherlands ; Belgium ; North Rhenany Westfalia

Action name 11	Market approach for 150 eco-materials

Names of partners involved

CD2E ; BSK ; DGS ; GBC ; Globe 21 ; HWK ; VIBE ; AGRODOME

Description

The involved partners will evaluate the 150 eco-materials potentialities towards NWE markets in accordance with their performances. For sure it will be possible to integrate the environmental benefits as key arguments for the final users. Marketing is essential to promote the definition, the methodology and the tool available. Partners will elaborate marketing strategies for the 150 eco-materials analysed, specificaly for those manufactured in the concerned regions. Marketing strategies will be developed with support of organisations that already have experience on eco-marketing and green marketing.
For example, VIBE will bring the experience of VIBE stars label and Nature Plus label from Germany. Different strategies will be established, for different targets, as targets are considered as "customers" of the eco-materials evaluated within CAPEM project.
Marketing strategies will be also established with the support of existing retailers networks, specialised in distribution of presumed eco-materials, in Germany, France and Belgium.

Concrete Outputs (as listed in WP)

Market profiles for at least 100 eco-materials

Start date	01/Jul/2010
End date	01/Apr/2012
Work package number	2

Location of Action - NUTS III (if applicable)

Northern France ; United Kingdom ; The Netherlands ; Belgium

Action name 12	Design and specification of communication strategy - manufacturers

Names of partners involved

CD2E ; GBC ; HWK

Description

The involved partners will qualify the appropriate communication strategy towards manufacturers of eco-materials, which will be common for the project area. Appropriate communication means tools specificaly designed for the construction sector manufacturers, that represent the first target of the CAPEM project. The communication methodology and tools will demonstrate quickly the main benefits for manufacturers to use and promote the definition of eco-materials elaborated.
The communication tools will be the following :
- web site of the project that give information and eco-materials identification - newsletters - video realisation with the idea “eco-materials, from production to use” - end users guides of “best practices” - conferences and seminars - press articles - TV and radio sequences

The communication methods that will be used are :
- fairs and exhibitions - training sessions at construction (new or renovation) level - communities awareness rising through organisation of specific visits for each community - specialised conferences

Concrete Outputs (as listed in WP)

Communication strategy design towards manufacturers of eco-materials.
specific communication strategy for manufacturers will be applied specifically at
- Nordbat Every two years, in March (3 days) France, Nord Pas de Calais 15 000 Building exhibition Professionals : builders, architects, craftsmen
- Batibouw Every year, in February and March (1 week) Belgium (Bruxelles) 200 000 Building exhibition Professionals, end users
- Bauen & Wohnen March, each year (3 days) Germany (Munster) NC Individual housing and construction End users
- Bois et Habitat Late March, each year (4 days) Belgium, each year 40 000 Wood construction, eco-materials Professionals, end users

Start date	01/May/2010
End date	01/Jun/2010
Work package number	3

Location of Action - NUTS III (if applicable)

Northern France ; Belgium ; North Rhenany Westfalia

Action name 13	Design and specification of communication strategy - retailers

Names of partners involved

CD2E ; DGS ; VIBE ; GBC

Description

The involved partners will qualify the appropriate communication strategy towards retailers of eco-materials, which will be common for the project area.Retailers are the second most important target of the CAPEM project (after manufacturers), they do impact the market of "green products" by qualifying the products and helping the final users to learn about the benefits.
The communication tools will be the following :
- web site of the project that give information and eco-materials identification - newsletters - video realisation with the idea “eco-materials, from production to use” - end users guides of “best practices” - conferences and seminars - press articles - TV and radio sequences

The communication methods that will be used are :
- fairs and exhibitions - training sessions at construction (new or renovation) level - communities awareness rising through organisation of specific visits for each community - specialised conferences

Concrete Outputs (as listed in WP)

Communication strategy design towards retailers of eco-materials
specific communication strategy for manufacturers will be applied specifically at
- Nordbat Every two years, in March (3 days) France, Nord Pas de Calais 15 000 Building exhibition Professionals : builders, architects, craftsmen
- Batibouw Every year, in February and March (1 week) Belgium (Bruxelles) 200 000 Building exhibition Professionals, end users
- Bouwbeurs Every two years in February (1 week) The Netherlands (Utrecht) 102 000 Building exhibition Professionals, end users
- Bois et Habitat Late March, each year (4 days) Belgium, each year 40 000 Wood construction, eco-materials Professionals, end users

Start date	01/May/2010
End date	01/Jun/2010
Work package number	3

Location of Action - NUTS III (if applicable)

Northern France ; The Netherlands ; Belgium ; United Kingdom

Action name 14	Design and specification of communication strategy - users

Names of partners involved

ACORP ; BSK ; DGS ; Globe 21 ; HWK ; VIBE

Description

The involved partners will qualify the appropriate communication strategy towards users of eco-materials, which will be common for the project area.
The communication tools will be the following :
- web site of the project that give information and eco-materials identification - newsletters - video realisation with the idea “eco-materials, from production to use” - end users guides of “best practices” - conferences and seminars - press articles - TV and radio sequences

The communication methods that will be used are :
- fairs and exhibitions - training sessions at construction (new or renovation) level - communities awareness rising through organisation of specific visits for each community - specialised conferences

Concrete Outputs (as listed in WP)

Communication strategy design towards users of eco-materials
specific communication strategy for end users will be applied specifically at
-Batibouw Every year, in February and March (1 week) Belgium (Bruxelles) 200 000 Building exhibition Professionals, end users
-Bouwbeurs Every two years in February (1 week) The Netherlands (Utrecht) 102 000 Building exhibition Professionals, end users
-Ecobuild Late February, each year Great Britain (London) 26 000 Eco-building, sustainable development, renewable energy Professionals, end users
-Bauen & Wohnen March, each year (3 days) Germany (Munster) NC Individual housing and construction End users
-December, each year France, Paris 15 000 Ecological housing, eco-materials End users

Start date	01/May/2010
End date	01/Jun/2010
Work package number	3

Location of Action - NUTS III (if applicable)

Northern France ; Belgium ; England ; North Rhenany Westfalia ; The Netherlands

Action name 15	Design and specification of communication strategy - advisers

Names of partners involved

ACORP ; BSK ; Globe 21

Description

The involved partners will qualify the appropriate communication strategy towards advisers of eco-materials, which will be common for the project area.
The communication tools will be the following :
- web site of the project that give information and eco-materials identification - newsletters - video realisation with the idea “eco-materials, from production to use” - end users guides of “best practices” - conferences and seminars - press articles - TV and radio sequences

The communication methods that will be used are :
- fairs and exhibitions - training sessions at construction (new or renovation) level - sensibilisation of communities by organisation of specific visits for each community - specialised conferences

Concrete Outputs (as listed in WP)

Communication strategy design towards users of eco-materials
specific communication strategy for end users will be applied specifically at -
- Ecobuild Late February, each year Great Britain (London) 26 000 Eco-building, sustainable development, renewable energy Professionals, end users
- Batir écologique, December, each year France, Paris 15 000 Ecological housing, eco-materials End users

Start date	01/May/2010
End date	01/Jun/2010
Work package number	3

Location of Action - NUTS III (if applicable)

United Kingdom ; Northern France

Action name 16	Implementation of communication strategy - manufacturers

Names of partners involved

CD2E ; GBC ; HWK ; AGRODOME

Description

The involved partners will implement the communication strategy towards manufacturers of eco-materials, which will be produced by the communication experts for the whole project area.
The communication tools will be the following :
- web site of the project that give information and eco-materials identification - newsletters - video realisation with the idea “eco-materials, from production to use” - end users guides of “best practices” - conferences and seminars - press articles - TV and radio sequences

The communication methods that will be used are :
- fairs and exhibitions - training sessions at construction (new or renovation) level - communities awareness rising through organisation of specific visits for each community - specialised conferences

Concrete Outputs (as listed in WP)

Communication strategy objects towards manufacturers of eco-materials
Specific communication strategy for manufacturers will be applied specifically at -
- Nordbat Every two years, in March (3 days) France, Nord Pas de Calais 15 000 Building exhibition Professionals : builders, architects, craftsmen
- Batibouw Every year, in February and March (1 week) Belgium (Bruxelles) 200 000 Building exhibition Professionals, end users
- Bauen & Wohnen March, each year (3 days) Germany (Munster) NC Individual housing and construction End users
- Construire au naturel November, each year France, Nord Pas de Calais 52 000 Ecological housing, green design, eco-building End users
- Batir écologique December, each year France, Paris 15 000 Ecological housing, eco-materials End users
- Bois et Habitat Late March, each year (4 days) Belgium, each year 40 000 Wood construction, eco-materials Professionals, end users

Start date	01/Jul/2010
End date	01/Dec/2012
Work package number	3

Location of Action - NUTS III (if applicable)

Northern France ; Belgium ; North Rhenany Westfalia

Action name 17	Implementation of communication strategy - retailers

Names of partners involved

CD2E ; DGS ; GBC ; VIBE ; AGRODOME

Description

The involved partners will implement the communication strategy towards retailers of eco-materials, which will be produced by the communication experts for the whole project area.
The communication tools will be the following :
- web site of the project that give information and eco-materials identification - newsletters - video realisation with the idea “eco-materials, from production to use” - end users guides of “best practices” - conferences and seminars - press articles - TV and radio sequences

The communication methods that will be used are :
- fairs and exhibitions - training sessions at construction (new or renovation) level - communities awareness rising trought organisation of specific visits for each community - specialised conferences

Concrete Outputs (as listed in WP)

Communication strategy objects towards retailers of eco-materials
Specific communication strategy for manufacturers will be applied specifically at -
- Nordbat Every two years, in March (3 days) France, Nord Pas de Calais 15 000 Building exhibition Professionals : builders, architects, craftsmen
-Batibouw Every year, in February and March (1 week) Belgium (Bruxelles) 200 000 Building exhibition Professionals, end users
- Bouwbeurs Every two years in February (1 week) The Netherlands (Utrecht) 102 000 Building exhibition Professionals, end users
-Construire au naturel November, each year France, Nord Pas de Calais 52 000 Ecological housing, green design, eco-building End users
-Batir écologiqueDecember, each year France, Paris 15 000 Ecological housing, eco-materials End users
-Bois et Habitat Late March, each year (4 days) Belgium, each year 40 000 Wood construction, eco-

Start date	01/Jul/2010
End date	01/Dec/2012
Work package number	3

Location of Action - NUTS III (if applicable)

Northern France ; The Netherlands ; Belgium

Action name 18	Implementation of communication strategy - users

Names of partners involved

ACORP ; BSK ; DGS ; Globe 21 ; HWK ; VIBE; AGRODOME

Description

The involved partners will implement the communication strategy towards users of eco-materials, which will be produced by the communication experts for the whole project area.
The communication tools will be the following :
- web site of the project that give information and eco-materials identification - newsletters - video realisation with the idea “eco-materials, from production to use” - end users guides of “best practices” - conferences and seminars - press articles - TV and radio sequences

The communication methods that will be used are :
- fairs and exhibitions - training sessions at construction (new or renovation) level - communities awareness rising through organisation of specific visits for each community - specialised conferences

Concrete Outputs (as listed in WP)

Communication strategy objects towards users of eco-materials
Specific communication strategy for manufacturers will be applied specifically at -
-Batibouw Every year, in February and March (1 week) Belgium (Bruxelles) 200 000 Building exhibition Professionals, end users
-Bouwbeurs Every two years in February (1 week) The Netherlands (Utrecht) 102 000 Building exhibition Professionals, end users
-Ecobuild Late February, each year Great Britain (London) 26 000 Eco-building, sustainable development, renewable energy Professionals, end users
-Batir écologique December, each year France, Paris 15 000 Ecological housing, eco-materials End users

Start date	01/Jul/2010
End date	01/Dec/2012
Work package number	3

Location of Action - NUTS III (if applicable)

Northern France ; United Kingdom ; The Netherlands ; North Rhenany Westfalia ; Belgium

Action name 19	Implementation of communication strategy - advisers

Names of partners involved

ACORP ; BSK ; Globe 21; AGRODOME

Description

The involved partners will implement the communication strategy towards users of eco-materials, which will be produced by the communication experts for the whole project area.
The communication tools will be the following :
- web site of the project that give information and eco-materials identification - newsletters - video realisation with the idea “eco-materials, from production to use” - end users guides of “best practices” - conferences and seminars - press articles - TV and radio sequences

The communication methods that will be used are :
- fairs and exhibitions - training sessions at construction (new or renovation) level - communities awareness rising through organisation of specific visits for each community - specialised conferences

Concrete Outputs (as listed in WP)

Communication strategy objects towards users of eco-materials
Specific communication strategy for advisers will be applied specifically at :
-Ecobuild Late February, each year Great Britain (London) 26 000 Eco-building, sustainable development, renewable energy Professionals, end users
-Batir écologique December, each year France, Paris 15 000 Ecological housing, eco-materials End users

Start date	01/Jul/2010
End date	01/Dec/2012
Work package number	3

Location of Action - NUTS III (if applicable)

United Kingdom ; Northern France

Action name 20	Design and specification of demonstration buildings

Names of partners involved

ACORP ; BSK ; CD2E ; GBC ; Globe 21 ; HWK ; SVE ; VIBE; AGRODOME

Description

Design procedure for each construction/renovation will be elaborated with the contribution of at least two partners of CAPEM project. Even if the partners know each other since 2005-2006 (this link was very important for the first steps of the CAPEM project), common design procedures on new and renovated constructions will allow all partners to know each other much better, to understand territorial challenges, specific market situation, needs and opportunities for eco-construction, eco-materials development in each region, etc.
A common design strategy for communication perspective will also be led.
Two options were chosen by the project partners:
1. Common design on constructions situated in regions presenting the same territorial challenges (e.g Cd2e and ACORP will cooperate on renovated constructions; VIBE and GLOBE 21 will cooperate on new constructions).
2. Common design on constructions that don’t present the same territorial challenges. (E.g, Cd2e and HWK will cooperate on new constructions). The cooperation can be also very good if partners work on different projects.

The demonstration buildings, including the demonstration rooms, will be designed and specified by the partners so that the various centers are linked to each other and the demonstration is actually performed by the network. This work will be transnationnally led and then locally adapted.
In particular, a central on-line system will be designed to follow the real performances of the eco-materials used in the demonstration buildings. This system will be hosted by the project internet website.

Concrete Outputs (as listed in WP)

Design and specifications of the demonstration buildings, including the demonstration rooms

Project partners will work on the creation, of a transnational network of resource centers dedicated to the promotion of eco-materials for construction sector that can impact positively the market. The design and building of the resource centers on eco-materials at the European level will have the following common characteristics:
- A label translated in 4 or 5 different languages,
- A “flag” for identification by the mid and end users,
- A learning tools typology,
- A minimum learning content on eco-materials,
- A website with online measurements tools and data on the performances of the eco-materials selected and used in all the construction (new and renovated) projects.

Start date	01/Jan/2009
End date	01/Jun/2011
Work package number	4

Location of Action - NUTS III (if applicable)

Northern France ; United Kingdom ; The Netherlands ; North Rhenany Westfalia ; Belgium

Action name 21	Implementation of the demonstration network

Names of partners involved

ACORP ; BSK ; CD2E ; GBC ; Globe 21 ; HWK ; SVE ; VIBE; AGRODOME

Description

The demonstration network composed of the demonstration buildings and showrooms will be commonly set up by the partners in terms of organization and working. Then each partner will run the management and funding of each building separately but according to the established common guidelines. There will be both renovated and new buildings with some specificities such as classified buildings (the description of each building is provided in the section for investments). Some guide to the achieved demonstration network will be produced.
For all the demonstration buildings (new and renovated) that will be designed and built/renovated within the CAPEM project, in each region, the communities (city level, urban areas, sub-urban areas, regional level) are ready to inform the public about the services offered by the centers and to organise “visit tours” regularly to raise awareness of citizens, end-users.
The real advantage of CAPEM project and investments is the existing work and relationship network between all the partners and the business communities involved in the construction sector. These professionals need to understand and to learn how to introduce green materials and techniques in their offer. They also need to learn how to leave the traditional market, and to market new eco solutions.
Each partner of CAPEM project identified and is connected to key players in the construction sector of each region.(see annex 2) The key players will be invited to attend visits, conferences, technical seminars, special events.
They will also be encouraged to make the promotion of the network to their clients, insisting on its international context and perspective. For example, English architects interested in eco-housing in the Netherlands and eco-materials made in Belgium, will easily make connexions by mobilising the resource centers of the network.

Concrete Outputs (as listed in WP)

Implemented demonstration network at the scale of five member states
Booklet of the eco-materials demonstration network
Public and business communities involvment, see list of communities (public and private) for each partner available in annex 2.

Start date	01/Jan/2010
End date	01/Dec/2012
Work package number	4

Location of Action - NUTS III (if applicable)

Northern France ; United Kingdom ; The Netherlands ; North Rhenany Westfalia ; Belgium

Action name 22	Transnational visits to the building sites at various stages

Names of partners involved

ACORP ; BSK ; CD2E ; DGS ; GBC ; Globe 21 ; HWK ; SVE ; VIBE; AGRODOME

Description

The building sites will be visited by all partners at various stages of the work with the comments of the partner responsible for the investment.
The visits will increase the knowledge of all partners by the experience of each one of them. They also will be an excellent opportunity to exchange concretely.
These visits might be organized at the occasion of some project events. E.g international scientific conferences or thematic technical events (see detailed description of communication actions, that will be led at transnational level in WP3).

Concrete Outputs (as listed in WP)

Transnational building site visit reports

Start date	01/Jan/2010
End date	01/Dec/2012
Work package number	4

Location of Action - NUTS III (if applicable)

Northern France ; United Kingdom ; Belgium ; The Netherlands ; North Rhenany Westfalia

Action name 23	BENCHMARK AND PARTNERSHIP WITH LIFE CYCLE DATABASES AND LIFE CYCLE CALCULATION TOOLS FOR THE BUILDING INDUSTRY IN NORTH WEST EUROPE

Names of partners involved

CD2E ; VIBE; AGRODOME; GREENSPEC

Description

Each active partner will formalise partnerships with 1 Life Cycle calculation tool and 1 Life Cycle database in their country. CAP'EM partners are already in contact with tool providers.
The CAP'EM partner will develop a partnership agreement with the tool provider to formalise arrangements, and additional match funding from these partners will be encouraged to enable the actions to be applied to as many materials as possible. These partnerships should be on a long term basis to ensure that the impact of WP5 actions extend beyond the funding period.
CAP'EM will also propose a consortium with SMEs from each of the four partner countries to participate in the testing of the Product Environmental Footprint (PEF) with the European Commission. If we are accepted, we will link to one less tool or database at a country level. We will be informed of our acceptance in July 2013, giving us time to adapt our programme accordingly. The testing period starts in September 2013. Verbal discussions indicate that we have a good chance of being accepted, since we are already using the recommended method, and can mobilise SMEs in this pilot, which is a challenge for the Commission. Note that there is no financial support for being selected as a pilot, but this will greatly increase the profile of CAP'EM and help us to influence European policy.

Concrete Outputs (as listed in WP)

A comprehensive benchmark of emerging life cycle databases and life cycle calculation tools for the building industry in North West Europe for internal use by the CAP'EM partners. This resource will bring together detailed information and will be a working document in English.
A publically available report of life cycle tools, freely available on the CAP'EM website in English, French, Dutch and German.
8 partnership conventions between CAP'EM partners and tool providers:
• 1 LC database and 1 LC Calculation tool in the Netherlands
• 1 LC database and 1 LC Calculation tool in Belgium
• 1 LC database and 1 LC Calculation tool in the UK
• 1 LC database and 1 LC Calculation tool in France

Start date	01/Sep/2013
End date	01/Dec/2013
Work package number	5

Location of Action - NUTS III (if applicable)

Northern France ; United Kingdom ; The Netherlands ; Belgium

Action name 24	ADAPTATION OF CAP'EM DATA FOR INCORPORATION IN THE PARTNERS' TOOLS

Names of partners involved

CD2E ; VIBE; AGRODOME; GREENSPEC

Description

Partners will compare methods and impact categories between CAP'EM and each of the external partners' LC tools. Recalculation methods to transfer CAP'EM data into the partner LC tool format will be developed and validated. Data will be recalculated for 10 pilot materials from the CAP'EM database that best fit the needs of the partner's LC tool, whilst maximising geographical spread and material type. Finally the data will be reported towards external partner and published in their tool.

Concrete Outputs (as listed in WP)

Publication of 80 CAP'EM materials in external partners' LC tools (10 pilot materials for each of the 8 partner LC tools)

Start date	01/Dec/2013
End date	01/Jul/2014
Work package number	5

Location of Action - NUTS III (if applicable)

Northern France ; United Kingdom ; The Netherlands ; Belgium

Action name 25	EXTENSION OF THE CAP'EM BUILDING PRODUCT COMPARISON SYSTEM WITH 'GATE-TO-GRAVE' DATA AND BESPOKE ADAPTATION TO EACH REGIONAL TOOL.

Names of partners involved

CD2E ; VIBE; AGRODOME; GREENSPEC

Description

Working with 8 different LC models in 4 countries will enable CAP'EM to determine a model that will allow the presentation of end of life impacts in the CAP'EM building product comparison system. Evaluating the impacts of the end of life of building materials is particularly complex as waste management scenarios will change considerably over the life of the building, but waste management practices also differ greatly from region to region. This level of complexity and the permutations of scenarios required meant that this work was not carried out in the initial project as this level of work was far beyond the remit of a simplified LCA method.
A study of how grave-to-gate is evaluated in national/regional systems will be undertaken and adaptation of 'best practices' in CAP'EM method. The CAP'EM Building Product Comparison System will be adapted to enable the communication of such results, and at least 20 pilot materials evaluated to demonstrate the feasibility of the procedure.
Where possible, materials will be classified and grouped together and the scenarios condensed into the most important (following consultation) to enable the re-analysis of more products and generic materials studied in WP2.

Concrete Outputs (as listed in WP)

CAP'EM Building Product Comparison System enhanced to include end of life data ("gate to grave")
"Gate to grave" data included for 20 pilot materials in the CAP'EM Building Product Comparison System

Start date	01/Feb/2014
End date	01/Jul/2014
Work package number	5

Location of Action - NUTS III (if applicable)

Northern France ; United Kingdom ; The Netherlands ; Belgium

Action name 26	TRANSNATIONAL LIFE CYCLE IN BUILDINGS EVENT

Names of partners involved

CD2E ; VIBE; AGRODOME; GREENSPEC

Description

The CAP'EM partners will hold an event with the external partners involved with the 8 LC tools in the UK, France, the Netherlands and Belgium to present and compare the different regional initiatives, and make a call for greater collaboration and harmonisation in this field. This event will be important to promote the CAP'EM Building Product Comparison System and the place of eco-materials in these different initiatives to quantify the environmental impacts of buildings and their materials. It will also be an important lobbying initiative.

Concrete Outputs (as listed in WP)

1 transnational event with 150 participants

Start date	01/Apr/2014
End date	01/Jul/2014
Work package number	5

Location of Action - NUTS III (if applicable)

Northern France ; United Kingdom ; The Netherlands ; Belgium

Action name 27	ESTABLISHING A PROGRAMME OPERATOR

Names of partners involved

CD2E ; VIBE; AGRODOME; GREENSPEC

Description

The CAP'EM EPD system will develop a transparent management structure, as required by EN 14025 and ISO 14025 "Environmental labels and declarations— Type III environmental declarations— Principles and procedures"
SECRETARIAT: update General Programme Instructions when required by the TC, communicate the General Programme Instructions, maintain the PCR & EPD repositories, facilitate participation and involvement of interested parties, ensure appropriate consultations take place, inform the TC when a PCR or EPD requires updating and keep records of the activities deliberations of the MC, TC & AC.
MANAGEMENT COMMITTEE (MC) is responsible for overseeing the operation of the Proposed EPD system and will ensure compliance with relevant legislation & standards, ensure that the CAP'EM EPD system operates in a fair and transparent manner, oversee activities of the Secretariat, AC & TC and facilitate harmonisation with other EPD programme operators.
TECHNICAL COMMITTEE (TC): composed of a chair, 2 LCA experts & representatives from the appropriate construction sector when necessary. Oversee the development of PCRs (without participating), act as a PCR review panel, ensure submitted EPDs follow the relevant PCR, examine & improve LCA methodologies used in the development of EPDs, consider applications by LCA practitioners to act as verifiers, deal with technical enquiries, ensure procedures are in place to safeguard the consistency of data handling, inform the secretariat if a PCR or EPD is acceptable for publication, ensure that verifications are performed independently.
ADVISORY COMMITTEE (AC): comprises a chair & stakeholders, inform the MC & TC of latest developments in the construction sector and provide information to the MC or TC as required. Members of the AC can be seconded to the MC or TC.
PCR REVIEW PANEL may include members from other committees outlined above.

Concrete Outputs (as listed in WP)

Transparent management structure in place for the CAP'EM EPD programme with a balance of representatives from at least 4 countries, and including external partners.

Start date	01/Sep/2013
End date	01/Dec/2013
Work package number	6

Location of Action - NUTS III (if applicable)

Northern France ; United Kingdom ; The Netherlands ; Belgium

Action name 28	PRODUCTION OF A GENERAL PROGRAMME INSTRUCTIONS (GPI)

Names of partners involved

CD2E ; VIBE; AGRODOME; GREENSPEC

Description

Under the leadership of VIBE, the partners will draft the GPI, which will provide information on all aspects of the proposed EPD system for any interested parties. This document will include details on the management structure, dissemination, EPD and PCR production, verification etc. The following format is proposed:
(1) general information
(2) terms and definitions
(3) programme organization, including objectives, organisational structure, administration of the programme, development of product category rules (PCR), EPD verification, Protection of the proposed EPD system logo and the management of any fees
(4) development of product category rules (PCR), including PCR definition, content of PCR documents, development of a PCR document and details of PCRreview
(5) declaration requirements and format, covering programme-related information, product-related information, environmental performance-related information, mandatory information, and details of correction and amendment procedures
(6) EPD verification, covering the principles and procedures involved as well as external and internal verification procedures, the competency requirements of verifiers and the obligations of the programme operator.
(7) references
(8) appendix

Once the GPI is written partners will manage the consultation process. This will be an important step to ensuring that the CAP'EM EPD programme is accepted by the profession as best practice in North West Europe. The external partners in WP5 will be critical for this step.

Concrete Outputs (as listed in WP)

General Programme Instructions developed and approved

Start date	01/Dec/2013
End date	01/Apr/2014
Work package number	6

Location of Action - NUTS III (if applicable)

Northern France ; United Kingdom ; The Netherlands ; Belgium

Action name 29	DEVELOPMENT OF PRODUCT CATEGORY RULES (PCRS)

Names of partners involved

CD2E ; VIBE; AGRODOME; GREENSPEC

Description

The development of PCRs historically has been a relatively un-harmonized process, with many PCRs dictating very different LCA system boundaries, functional units and impact categories for the report of results. As such many EPDs have not been comparable and certainly not compatible across different product types. The recent publication of the European standard EN 15804:2012, "Sustainability of construction works. Environmental product declarations. Core rules for the product category of construction products", means that all EPDs on construction materials will be harmonized across Europe. As such, PCRs specific to each product category will in essence require only specific details as to the products included in the category, their functional unit and any special treatment required in EPD preparation.
Once written in draft form, PCR documents will be submitted to the TC. PCR documents are examined by the TC and if accepted are then subjected to an open consultation process. Comments received from stakeholders and other interested parties are examined and changes made to the PCR based upon the deliberations of the TC, who may seek additional advice from the AC. Once changes have been made, the PCR is approved and published. A PCR will be valid for three years, after which it may be subject to modification. Any changes made to a PCR will be based upon comments received by the TC during the lifetime of the PCR after publication.

Concrete Outputs (as listed in WP)

Product Category Rules developed and approved

Start date	01/Apr/2014
End date	01/Jun/2014
Work package number	6

Location of Action - NUTS III (if applicable)

Northern France ; United Kingdom ; The Netherlands ; Belgium

Action name 30	PRODUCTION OF EPDS FROM CAP'EM DATA

Names of partners involved

CD2E ; VIBE; AGRODOME; GREENSPEC

Description

20 pilot EPDs will be produced, using eco-materials with end of life assessments calculated during WP5. Producing EPDs will require a special presentation of the results, and an additional review by the technical committee. The 20 materials for the pilot EPDs will be selected according to a geographical representivity between the four countries actively involved in WP6, and at least one German material.

Concrete Outputs (as listed in WP)

20 EPDs produced

Start date	01/May/2014
End date	01/Aug/2014
Work package number	6

Location of Action - NUTS III (if applicable)

Northern France ; United Kingdom ; The Netherlands ; Belgium

3. Project Management

3.1 Project Management Structure

Please describe the management structure of your project and how decision-making, partnership cooperation / coordination, sharing of responsibility are to be organised. You might include a chart or diagram to visualise interlinkages. Please find further guidance on project management in Guidance Note 10.

As Lead Partner, CD2E will assume and host the project global management along with the financial and communication management, which will be more convenient as the number of partners is quite important. Its capacity to manage the CAP'EM project is ensured by the setting of a project management team composed of four people with three of them fully dedicated to the project activities.
For ensuring a transparent division of work, we will establish a robust and flexible project management framework, which is settled in the Partnership Agreement. A Steering Committee will be the principal decision-making body and will be involved at all crucial stages of the project, each partner being represented in the SC, will be chaired by CD2E, all decisions taken during SC bi-annual meetings binding for the whole consortium. In case of conflict, decisions will be taken via anonymous simple majority voting.

N.B. : A management diagram is provided as a non-compulsary annex.
The coordination of each WP will be assumed by one chosen project partner, as presented below :
- WP1 : VIBE (BE), already knowing much of eco-material simplified LCA and bringing some European connexion,
- WP2 : BSK (UK), experienced in material evaluation both technically (Greenspec) and economically,
- WP3 : AGRODOME (NL), used of having many contacts with all target audiences of eco-construction actors,
- WP4 : HWK (DE), currently managing an eco-material showroom and wanting to develop it further.

The choices of these WP managers was done during a transnational meeting on the basis of the abilities and the availability of the partners and they all were accepted by the various partners.
The lead partner will encourage the contribution of external experts brought by the partners throughout the project, especially on the important topic of LCA. The results of the projects will be even more representative suh a way.

Please describe the internal reporting, financial management and controlling structures of your project with particular emphasis on the audit trail and the way the accounts will be handled between partners. You might include a chart or diagram. Please find further guidance on first level control in Guidance Note 19.

Reporting :
A steering committee will be set up at project level and involve the contact point of each partner organization. Formal meetings with all partners will be held twice a year, one month prior to the introduction of a payment claim. Once a year, the monitoring committee will approve the annual activity report. This monitoring committee has the responsibility, under lead-partner supervision which chairs this committee of project achievement (i.e. making sure that the outputs and deliverables are delivered in due time, with the adequate quality, at the expected cost). Minutes will be drafted and sent to all partners, and be part of the official documentation related to the project. In case of major problems, this monitoring committee will held an extraordinary session and find ways to solve the problems before asking the support from the JTS.
Financial management :
The rules will be clearly set in the attached Partnership Agreement to define the various responsibilities between partners. These accounts will be handled in such a way as to correspond to the breakdown of expenditures as mentioned in the application form. In order to be included in a payment claim by CD2E, any expense will have to : 1) be properly accounted with respect to accounting standards ; 2) be certified by the responsible partner ; 3) be agreed upon by the CAP'EM steering committee. A separate account will be open to record all expenses and revenues.
Controlling :
The two cases of centralised and decentralised first level control systems will be present in the project but only the first level control of Wallonia will be supported by government. The first level controllers of the decentralised country partners will be carefully chosen and proposed very shortly after the project approval.

Project Manager

Contact person. Name	Traisnel	Surname	Christian
Institution	CD2E		
Address	Base 11/19 - rue de Bourgogne		
Postal code	62750	Town	Loos-en-Gohelle
Coiuntry	FR		
Phone: Office	0321130680	Mobile	
Fax	0321130681	Email	c.traisnel@cd2e.com

Please briefly specify the person's relevant experience

Christian Traisnel is an engineer and former CEO of several companies, having worked during 20 years as the manager of a consultant agency in strategy and marketing for SMEs and been a member of the steering committee of a bank. He is skilled and experienced in general management (including EU-funded projects), finances and marketing.
He shows a great ability to problem anticipation and solving. He is also a very good leader for the people he manages.
Christian Traisnel is currently the managing director of CD2E, responsible for general coordination of teams and programmes, regional and international partnerships, finances and global strategy. He will naturally assume the position of Project Manager.
The Project Manager will supervise all other management positions (Financial Manager, Communication Manager and Project Coordinators). He will also preside the Steering Committee of the project that will be set with at least one delegate of each partner.

Financial Manager

Contact person. Name	Verspieren	Surname	Audrey
Institution	CD2E		
Address	Base 11/19 - rue de Bourgogne		
Postal code	62750	Town	Loos-en-Gohelle
Coiuntry	FR		
Phone: Office	0321130680	Mobile	
Fax	0321130681	Email	a.verspieren@cd2e.com

Please briefly specify the person's relevant experience

Audrey Verspieren graduated from University of Paris 2 in a master of law. Her experience is mainly in organization finances and communication. She shows a great ability to managing budgets. She is very used of working with Christian Traisnel.
She has experience in managing financial part of European projects, having managed two Interreg 3A cross border project in 2003-2005 and 2006-2007 and one 2 seas Interreg IVA project since 2008.
Audrey Verspieren is the office manager of CD2E, especially in charge of finances and all related aspects. She will assume the position of Financial Manager of the project under the supervision of General Coodinator and Project Manager.
The Financial Manager will take care of all financial procedures at the project level between partners and towards the programme. He will especially coordinate the financial audits across the partners and prepare the claims for payment.

Communication Manager

Contact person. Name	Verspieren	Surname	Audrey
Institution	CD2E		
Address	Base 11/19 - rue de Bourgogne		
Postal code	62750	Town	Loos-en-Gohelle
Coiuntry	FR		
Phone: Office	0321130680	Mobile	
Fax	0321130681	Email	a.verspieren@cd2e.com

Please briefly specify the person's relevant experience

Audrey Verspieren graduated from University of Paris 2 in a master of law. Her experience is mainly in organization finances and communication.
She has a very good knowledge of all means of communication. This knowledge essentially comes form her experience in the organisation of the numerous professional events that the association performs, such as the European conference on eco-technologies held last June 2008.
Audrey Verspieren is currently the secretary general of CD2E, especially responsible for communication for CD2E and promotion of the sector in the region. She will assume the position of Communication Manager of the project under the supervision of the Project Manager and with the help of a CD2E website and database manager.
The Communication Manager will manage all actions dedicated to communicate on the progress and the results of the project. She will also supervise the communication of local levels, verifying that it is well in line with the project communication.

Project Coordinator

Contact person. Name	Bricout	Surname	Jodie
Institution	CD2E		
Address	Base 11/19 - rue de Bourgogne		
Postal code	62750	Town	Loos-en-Gohelle
Coiuntry	FR		
Phone: Office	0321130680	Mobile	
Fax	0321130681	Email	j.bricout@cd2e.com

Please briefly specify the person's relevant experience

Jodie Bricout was hired for the CAP'EM project in an international coordination role in August 2009 as a consultant. Her strengths are in project management and helping people from different cultural and linguistic backgrounds to work together. She is well known and appreciated by all the project partners. The cd2e proposed a full time position to Jodie in August 2010, to manage their LCA platform [avniR] and take a stonger management role in CAP'EM.
Jodie Bricout will assume the position of General Coordinator. She has technical stkills in LCA methodology, and most importantly stronch project management skills to help accelerate the project outputs. She has experience in managing European projects, having managed an Interreg 3A cross border project on Eco enterprise development in 2006-2007.

4. Communication Strategy

Please list the project’s communication objective(s). What is communication going to help you achieve?

The aim of the whole communication plan will be to disseminate reliable and convincing information about eco-materials to the professional actors within the supply chain. There will be a focused communication phase during WP1, WP2, WP5 and WP6 targeting specific transnational expertise and experience. This will influence a wide-reaching communication phase, during subsequent work packages.
The list of the various objectives of the communication plan is as follows :
1) to show in NWE the common methodology and evaluation procedure,
2) to raise awareness of products identified as green eco-materials in NWE markets of eco-construction,
3) to facilitate access to full information on eco-materials in NWE markets of eco-construction,
4) to foster through the demonstration of the use of eco-materials in NWE markets of eco-construction.
While the above are more orientated to each WP objective, they will be achieved by the whole project.
With regards to the targets, the communication plan will :
- inform within the project partners about the purpose, the inputs and the outputs of the project (internal communication),
- inform all sectors (manufacturers, retailers, users and advisers) about the purpose and the outputs of the project (external communication).
Internal communication will occur all along the project and external communication will mostly occur during WP3 and WP4.

Please list the main target audience(s) of the project. How will you solicit their input?

The target audiences considered will be as follows, in 5 represented member states :
WP1 : -1 Building professionals / architects, construction companies -2 Associations, federations -3 Manufacturers / retailers -4 End users (are not the most important target at this level)
WP2 : -1 Manufacturers, retailers 2- Associations , federations 3- Building professionals, architects, construction companies. -4 End users
WP3 : 1- Building professionals, architects, construction companies 2- Retailers, Manufacturers 3- End users 4- Associations, federations
WP4 : 1- End users 2- Professionals, architects, 3- Retailers, manufacturers 4- Associations, federations
WP5 : 1- Retailers, manufacturers 2-Professionals, architects 3-Associations, federations, 4-End users
WP6 : 1- Retailers, manufacturers 2-Professionals, architects 3-Associations, federations, 4-End users
For each WP, all the CAPEM partners are considered as a target audience as well.
Specific communication strategies will be defined transnationally for each of the target audiences. An external communication specialist will be in charge of this work.

Please list the main message(s) to the different target audiences.

The main messages to be delivered to project partners are :
- “The EU-funded CAP’EM project will allow the reduction of environmental and health impacts of building construction by increasing the use of validated eco-materials."
- "The results will be delivered on a website, exposed by a showroom in your country, and available on Life cycle tools related to building products all over North West Europe ”
The main messages to be delivered to professional target audiences (manufacturers, retailers, users and advisers) are :
- “The EU-funded CAP’EM project is using a simplified LCA tool to evaluate real environmental and health impacts of eco-materials."
- "The results are delivered on a website, exposed by an exhibition room in your country."
- "There are guides of best practice available and training sessions planned on demonstration building in your country."
- "The assessment tool will be available on the project internet website for further use.”
- "The results and datas will constitute the best source of information for eco-matérials in North West Europe"

Please list the main communication tools (e.g websites, conferences, leaflets) and actions planned for the different target groups during the course of the Project. Please use cross-references to the different work packages.

WP1 : 1 common image for all the partners, 1 launch, press articles, capitalization and use of all the new contacts generated by the first communication tools and methods of the project, fairs and exhibitions, information sheets translated in 4 different langages for the presentation of the aim and objectives of CAPEM project, a project website with available first documents on the presentation of the project, the partners, information newsletters distributed by emailing
WP2 : direct meeting with manufacturers on each area of each CAPEM partner, identification and contact with manufacturers on specific fairs, fairs and exhibitions, phoning, mailing, special sheets for manufacturers that explain the methodology and tool established at WP1, web site of the project that give information and “call for testing”, newsletters
WP3 : Fairs and exhibitions, training sessions at construction (new or renovation) level, sensibilisation
of communities by organisation of specific visits for each community, specialised conferences, web site that give information and eco-materials identification, newsletters, video realisation, end users guides of “best practices”, conferences and seminars- press articles, TV and radio sequences
WP4 : sensibilisation, information days, launching of the demonstration buildings and show-rooms, learning and training sessions, realtime assessment, demonstration, fairs and exhibitions, media coverage, project website upgrade, newsletter, conferences and seminars, press articles, TV and radio sequences
WP 5: direct lobbying, participation at important LCA related events and trade fairs, website, project newsletter, press release
WP 6 : direct lobbying, participation at important LCA related events and trade fairs, website, project newsletter, press release

Please list the evaluation tools which will be used to sustain the effectiveness and intensity of both internal and external communication (e.g. questionnaires, web-statistics, event participation levels).

The following tools will be used in order to evaluate the effectiveness of communication towards targets :
- Qualitative mail enquiry questionnaires for project partners,
- Number of read newsletters for project partners and professionals,
- Project website visit on critical pages for project partners and professionals,
- Number of participants of organized events (trade fair exhibitions, conference / seminar, information days, showroom inaugurations, site inauguration),
- Audience level of media events (professional press and media releases).
The results given for all of these evaluation tools will be reported inside the inner newsletter.

5. Detailed Investment Sheet

Investment 1 [WP1I1] Simplified LCA computer software for eco-materials

Description

The computer software produced will process all the data of eco-materials according to the harmonized methodology set and provide results for the various criteria allowing to classify eco-materials. It will have the form of a web based, easy-to-use, free software allowing any users to take advantage of the package for material evaluation.
The final software will be the intellectual property of the partners involved in its development and having shared the cost of this investment. As a consequence, these partners will be allowed to use the software and to authorize other users.

Geographical scope. Please fill in the NUTS III region in which the investment is located.

Country	FR
NUTS 1	FR3 - NORD - PAS-DE-CALAIS
NUTS 2	FR30 - Nord - Pas-de-Calais
NUTS 3	FR302 - Pas-de-Calais
Name of Partner in charge	CD2E
Number of Partner in charge	1
Name of Contractor	CD2E
WP number	1

Contribution to project objectives - Please explain how this Investment contributes to achieving the overall project objectives

The simplified LCA software will be the achievement of the common work performed on the harmonized methodology and the data basis within WP1. It may also be considered as a major piece of the whole project because all the evaluation results used in the following WPs will inform the various demonstration projects, thereby contributing to all objectives of this application.
The computer software will be the reference tool for simplified LCA of eco-materials across NWE. It will provide reliability and legitimacy to eco-materials and aid business growth.

Transnational added value - What is transnational of the investment and how does it create an added value through transnational cooperation? How is the experience used after the project?

Starting from existing local knowledge, transnational added value first exists in the common sharing and working which are necessary to achieve the harmonized methodology. The tool is planned to be used during and after the project end in a transnational way.
The software will also take advantage of all experience accumulated during the project. Software could be also further influenced by experience and knowledge gained during the use of eco-materials in the demontration phase.

Innovative aspects - What is innovative about this investment?

The innovation of this investment comes from the ability for SMEs to act in the evaluation of eco-materials. The usually small actors of eco-construction do not currently have any opportunity to identify available materials which are environmentally friendly.
Another innovation consists in giving to this evaluation methods a European recognition, even if some of the eco-materials will be locally produced. For now, only a few methods exist and are only used locally.

Timeframe	01/Feb/2009 - 01/Oct/2011

Budget breakdown: e.g. Work preparation, Feasibility study, Land purchase, Construction costs, …

Description	100,000
Total	**100,000**

Investment 2 [WP4I2] Renovated demonstration building in Northern France

Description

The investment will be dedicated to the renovation of an old mine director's house, using eco-materials and eco-technologies, and will be the starting point of the renovation of the former mine located in Lens in the Northern France region (around 100 000 houses). Specific consideration will be given to local architecture, sustainable design, social and historic behavior, local eco-materials selection and thermal performance. A special partnership established with the French building federation of SCOP BTP (personal-owned enterprise of construction) and with the French Federation of Construction (FFB) will allow the organisation in the future of learnings sessions and skills development in eco-construction / low energy design and renewable energy, including social aspects. This renovation will be particularly demonstrative for the local and regional needs of renovation which concerns all the big industrial areas where individual housing need to be renovated.
The situation of the exhibition room in Northern France is ideally situated close to an innovative project of low-energy new houses, made with eco-materials and renewable technologies, which has been set up by the French Federation of Construction (FFB) : this project called "Villavenir" (vww.villavenir.com) is neighbour to Cd2e and consists in giving the conventionnal world of construction the opportunity to achieve three different construction processes (wood frame, masonry and metal frame). A permanent link will be maintained between "Villavenir" and the renovated building for organisation of training schemes, learning cessions and permanent information on sustainable construction, eco-materials and renewable technologies.
At least 20% of the elements presented in the demonstration centre will have mobile features, allowing them to be a part of the mobile transnational exhibition for profesional fairs. Those elements will preferably refer to eco-materials available across NWE.

Geographical scope. Please fill in the NUTS III region in which the investment is located.

Country	FR
NUTS 1	FR3 - NORD - PAS-DE-CALAIS
NUTS 2	FR30 - Nord - Pas-de-Calais
NUTS 3	FR302 - Pas-de-Calais
Name of Partner in charge	CD2E
Number of Partner in charge	1
Name of Contractor	CD2E
WP number	4

Contribution to project objectives - Please explain how this Investment contributes to achieving the overall project objectives

The matter is the refurbishment of the former local mine director's house by the use of eco-materials. The building will welcome training sessions about eco-construction managed by an association connected to construction SCOP and additionally be the site of the exhibition room in Northern France. The renovation will be done with eco-materials selected within the CAPEM project, with the use, transfer and learning of the techniques “linked” (know how) for the communities involved. The design stage will be shared with a least one other CAPEM partner involved in renovation strategy for its investment in a demonstration center. The renovation will be operated in a spirit of “opening visits” and “realtime learning” to disseminate as best as possible the “know how”. E.g on cellulose bats blowing in.
The renovated house will then be use as “demonstration center” with realtime online assessment and permanent showroom dedicated to the promotion of eco-materials / eco-construction techniques / low energy design.
This renovated house will be the CAPEM demonstration center for North Pas de Calais region, with a specific knowledge on eco-materials and low energy renovation.

Public communities involved : CALL – Communauté d’agglomération de Lens Liévin, Conseil général North Pas de Calais, Conseil général du Nord, Conseil régional North Pas de Calais, ADEME, Espaces info énergie Norh Pas de Calais Region,CAUE 59 et 62
Business communities : Professional associations of builders (FFB-CAPEB), Construction materials retailers association , SCOP federation, DIY retailers (Castorama / Leroy Merlin), Architects regional chamber, 150 regional eco-enterprises members of the regional network of eco-construction

Transnational added value - What is transnational of the investment and how does it create an added value through transnational cooperation? How is the experience used after the project?

As all others of this type, this element of the project is truly transnational in that it relies on emerging eco-materials and technology from across Europe in order to achieve its aim. The building will demonstrate an added value through the application of proven eco-materials and hence best practice in terms of environmental impact.
The project has similarities with investment 3 and both partners will work closely together to ensure dissemination of best pratice.
Renovation of an old mine director’s house with eco-materials selected, with a showroom and permanent exhibition on the materials and techniques adapted to the renovation of existing houses in industrial context.
Realtime assessment linked with internet ; the exhibition will be organised as a “step by step” strategy dedicated to eco low E renovation.
Consultancy work and events will be organised permanently to make the center live.

Innovative aspects - What is innovative about this investment?

Identification of specific eco-materials assessed by the CAPEM methodology for the renovation of existing houses in North Pas de Calais region.
Availability for the communities of a “model” that can be “reproduced” for low-E renovation strategies. Information, learning cessions and consultancy counselling for all communities about eco-materials, CAPEM methodology and renovation strategies. The center will be identified as the “key point” reference center for eco-renovation know how in North Pas de Calais region.

Timeframe	01/Jan/2010 - 01/Dec/2012

Budget breakdown: e.g. Work preparation, Feasibility study, Land purchase, Construction costs, …

Description	50,000

Description	400,000
Description	50,000
Total	**500,000**

Investment 3 [WP4I3] Renovated demonstration building in UK (North)

Description

This element of the project aims to demonstrate the application of sustainability in terms of construction and building operation through refurbishing a historic but currently disused watertower. ACoRP is keen to explore opportunities for solar and water saving technologies and finishing materials - the LCA database is seen as a vital resource. Joint working with local community groups such as ERDF supported Build (located in the same town) is planned. The scheme also offers dissemination opportunities through national organisations such as the Railway Heritage Trust, Network Rail and English Heritage and also through the constituent members of the Association, who are keen to work collaboratively with similar organisations in NWE. There are similarities and joint working foreseen with this scheme and with the mine director's house and the farmhouse refurbishment shemes.
The scheme promoters are keen to see this scheme at the forefront of NWE best practice in eco-building, and to facilitate dissemination of the project findings, particularly to demonstrate the scheme's low carbon and wider impacts and also its European links, for example through the on-site exhibition area.
At least 20% of the elements presented in the demonstration centre will have mobile features, allowing them to be a part of the mobile transnational exhibition for profesional fairs. Those elements will preferably refer to eco-materials available across NWE.
In April 2011ACORP requested additional 128.500 for additional construction costs in order to increase of around 100 square metres the surface of their railway station regeneration project, which will have major visibility in the community at large.

Geographical scope. Please fill in the NUTS III region in which the investment is located.

Country	UK
NUTS 1	UKE - YORKSHIRE AND THE HUMBER
NUTS 2	UKE4 - West Yorkshire
NUTS 3	UKE43 - Calderdale, Kirklees and Wakefield
Name of Partner in charge	ACORP
Number of Partner in charge	2
Name of Contractor	ACORP
WP number	4

Contribution to project objectives - Please explain how this Investment contributes to achieving the overall project objectives

The scheme will contribute directly to the CAP'EM project aim to increase the use of eco-materials in the building industry of North West Europe (NWE), through better demonstration of their benefits. Eco-materials of particular interest in this scheme include solar and water saving technologies, aggregate alternatives and finishing materials such as natural paints. The scheme has excellent prospects of contributing to the project's demonstration and dissemination aims, through involvement of Network Rail, the Railway Heritage Trust and ACoRP's network of community rail organisations (who all have extensive investment interests in the UK rail building sector) and locally as a prominent, high profile building and through close links with local community organisations such as Build.
Public communities involvment : English Heritage, Network Rail, Department of Transport, Association of Train Operating, Companies, Welsh Assembly Government, Railway Heritage Association, Huddersfield Technical College, Engineering Construction Industry Training Board, Association of Local Authorities.
Business communities involvment : British Chamber of Commerce - The British Chambers of Commerce (BCC) is the national body for a Network of Accredited Chambers of Commerce across the UK. Current membership stands at approx 100,000 businesses across the UK. National Specialists Contractors Council – Encompasses 30 Trade Associations with, collectively, 7,000 members. Federation of Small Businesses – Encompasses 215,000 members across the UK.

Transnational added value - What is transnational of the investment and how does it create an added value through transnational cooperation? How is the experience used after the project?

This element of the initiative is truly transnational in that it relies on cooperative working and new technologies from across Europe in order to achieve its aim. There will be common challenges with other investment schemes, for example, related to maximising heritage benefits in parallel with reducing the building's carbon footprint. The scheme promoters are keen to work collaboratively to develop innovative and effective solutions, for example, related to best practice in solar and water saving technologies. This scheme is also seen as an exemplar in engaging professionals from the UK rail industry (chiefly, Network Rail) with other players in the NWE rail industry, demonstrating the scope for economically and environmentally attractive building techniques.
There will be common challenges associated with retention of heritage value whilst also reducing these buildings' carbon footprint. Eco-building expertise and access to the latest innovations offered through SusCon, CD2E and Globe 21 is also sought to inform development of this scheme.

Innovative aspects - What is innovative about this investment?

There is a Europe-wide issue concerning the use of modern environmentally friendly alternatives to more traditional and often environmentally damaging materials with the specific stresses coming from a listed building. Exploring the use of new technology within an historic context is likely to provide a useful demonstration for dissemination and application throughout Europe. The use of a community based building is also innovative. The high profile of an historic building, coupled with easy access for the general public and for professionals is seen as a highly efficient method whereby the results of the overall project can be promoted.
Key elements of the demonstration building are its listed monument status which gives an opportunity to test sustainable building practises within a regulatory constrained area of construction. The location also ensures a high profile.
Involvement of Huddersfield Technical College enables more effective technical understanding of emerging sustainable construction practises coupled with appropriate dissemination at community and regional level.
The showroom will be designed to inform on a wider basis than the Huddersfield project. It will encompass the whole of the CAP'EM initiative.
A key objective is the demonstration of more sustainable building to as wide an audience as possible. Both the building and its showroom will be complemented by a range of national events across the Country promoting both the UK elements and, as importantly the CAP'EM project.

Timeframe	01/Jan/2010 - 01/Dec/2012

Budget breakdown: e.g. Work preparation, Feasibility study, Land purchase, Construction costs, …

Description	50,000
Description	310,000
Description	50,000
Description	128,500
Total	**538,500**

Investment 4 [WP4I4] New demonstration building in UK (South)

Description

SusCon Centre for 21st Century Construction Excellence is a centre being developed in 2008-2011 in Kent Thames Gateway, North Kent for skills and environmental technology/eco-material demonstration. The Skills Centre will incorporate a demonstration showcase to market, promote and retail sustainable solutions such as eco-materials dedicated to the structures, fixtures and fittings to be delivered by March 2011.
The budget is sourced from Communities and Local Government (CLG) whose key role is to create thriving, sustainable, vibrant communities that improve everyone's quality of life. To achieve this they are building more and better homes (and reducing homelessness), improving local public services, regenerating areas to create more jobs, working to produce a sustainable environment, tackling anti-social behaviour and extremism.
The SusCon project and investment will be in the Thames Gateway, the first UK Eco-zone, to support these ambitions by providing a venue and demonstration centre for sustainable and environmental technology and eco-material within the construction industry. The SusCon centre is strategically placed in the South East of England where 1 Million new homes are planned for the South East of England over the next 25 years of which Ebbsfleet, adjacent to the centre, will become the largest building site in Europe.
At least 20% of the elements presented in the demonstration centre will have mobile features, allowing them to be a part of the mobile transnational exhibition for profesional fairs. Those elements will preferably refer to eco-materials available across NWE.

Geographical scope. Please fill in the NUTS III region in which the investment is located.

Country	UK
NUTS 1	UKJ - SOUTH EAST (ENGLAND)
NUTS 2	UKJ4 - Kent
NUTS 3	UKJ42 - Kent CC
Name of Partner in charge	BSK
Number of Partner in charge	3
Name of Contractor	BSK
WP number	4

Contribution to project objectives - Please explain how this Investment contributes to achieving the overall project objectives

As per WP4 this CLG sources match (with KCC as the accountable body) will cover demonstration room design, specification, production, networking, demonstration and production/development. The capital build programme will provide infrastructure, fixtures and fittings for the showcase demonstration, as a core part of this project development which will be completed by March 2011 in accordance with CLG spend requirements.
The centre will be used to demonstrate and showcase the best of class in eco-materials and technologies available from local and cross-border project participants. In addition it will provide a forum to exchange information, products, technologies and ideas between partners, their indigenous suppliers and users of such technology.
This will provide an ideal platform and venue to not only demonstrate, but use and prove the use and benefits of new technologies and materials, with the support of local investors and construction companies.
Public communities involvment :
South East England Development Agency (SEEDA) Liked to their ERDF and ESF Competitiveness program, Government Office for the South East (Previous funding partner), County Councils e.g. Hampshire, Kent- Local councils such as Portsmouth and Southampton, Unitary authorities e.g Kent and Medway, Universities e.g Kent, Brighton, Greenwich, FE College sector
Business communities involvment :
Manufacturing Advisory Service, Envirowise, The Carbon Trust, Sector Consortia organisations such as SECBE, Enviro business for ET related industries, Innovation Service delivered by the Business Links, Chambers of Commerce in Kent, Federation of Small Business, Business Schools, Social enterprises, 5 other Business Link Providers in the South East.

Transnational added value - What is transnational of the investment and how does it create an added value through transnational cooperation? How is the experience used after the project?

Transnational collaboration is envisaged between the SusCon project and other showcase demonstrations - potentially through: transnational learning on showcase development, demonstration options ideas and marketing ; demonstration of eco-materials across the transnational partnership - best in Europe ; customer/client feedback on given eco-materials in testing, use, application ; market development to support the uptake of eco-materials including demand mapping, targeting, and marketing to encourage uptake of sustainable supply solutions and application/procurement of eco-materials.
The cooperation between the project partners and their local agencies and similar demonstration centre's will provide an ongoing forum to share information, products, technologies and ideas, whilst strengthening the skills of the project partners and the communities they locally support.
It is envisaged that the establishment of the network of demonstration centres throughout the partner regions will encourage the roll out and replication of the benefits and rewards of the centres throughout Kent, the Thames Gateway, the United Kingdom and other European regions. This will be achieved by maximising the use of the network of demonstration centre's as a forum for sharing ideas and technologies throughout the EU, providing venues which will adapt and expand as new technologies and materials evolve and using local, regional and national commercial and marketing skills to develop and extend the promotion and use of sustainable technologies and materials to the construction industry.

Innovative aspects - What is innovative about this investment?

The SusCon Skills Centre and demonstration showcase are in themselves designed to demonstrate sustainable build, eco-material application, low carbon construction and modern methods, in keeping with the Centre mission and delivery plan. It is expected that eco-material uptake can be explored and encouraged in the 'design & build' procurement of the Centre structures and in fixtures and fittings, with further innovation in the promotion in exhibition and demonstration (internal and external – e.g. eco-homes demonstration).
This will include the demonstration and promotion of local and regional technologies including low carbon and energy efficient technologies (e.g. bio fuels, combined heat and power boilers), but also those of the project partner countries. This will encourage and create an environment for the sharing of information, experiences and knowledge between partners and commercial organisations within the construction industry.
As an integral part of a network of demonstration centres SusCon will continue to grow and evolve with the continuing support of the technology providers/suppliers to maintain the centre as a regional and national focus of advice and skills development.
In addition the location of the SusCon centre within an area of significant building construction over the next 25 years will be an ideal platform and venue to not only demonstrate, but use and prove the use and benefits of new technologies and materials : the SusCon site and the surrounding areas will provide an ideal opportunity to promote the benefits and investments of ERDF and EU funds in sustainable construction and developments.

Timeframe	01/Jan/2009 - 01/Dec/2012

Budget breakdown: e.g. Work preparation, Feasibility study, Land purchase, Construction costs, …

Description	50,000
Description	431,000
Description	50,000
Total	**531,000**

Investment 5 [WP4I5] Renovated demonstration building in Belgium (Wallonia)

Description

The exhibition will be located in a building open to the public that was recently renovated or built following the principles of the green building, to inform the candidate builders (households, investors, municipalities,…) and the craftsmen in Wallonia about the most performant and ecological materials available in their region and in the neighbourgh regions (Flanders, France, UK, Netherlands, Germany), and to explain them how these materials can be applied (new houses, renovation).The investment will only concern the exhibition content which will especially focus on the new eco-materials manufactured and used in Wallonia.
Different features of the exhibition will be available : -Semi-permanent exhibition room for students, achitects, craftsmen, associations, candidate builders and visitors from other countries.-Mobile show-room for fairs in Wallonia or abroad-Mobile show-room that can be used by members or partners of the GBC and by the partners of the CAP'EM project (abroad).
In particular, the elements of house presented in the exhibition will include examples and sections of walls, floors or underroof made with lime and hemp concrete, acoustic panels (made of recycled paper), straw or cork panels, horizontal stacking of rectangular wooden beams (MHM), laminated beams produced with an ecological process and other new building ecomaterials still in development at this moment, without forgetting window frames for passive houses, glasses integrating photovoltaïc devices... Interactive terminals and special devices or sensors will also made the visit more attractive and more informative.

At least 20% of the elements presented in the demonstration centre will have mobile features, allowing them to be a part of the mobile transnational exhibition for profesional fairs. Those elements will preferably refer to eco-materials available across NWE. See also annex 5.

Geographical scope. Please fill in the NUTS III region in which the investment is located.

Country	BE
NUTS 1	BE3 - RÉGION WALLONNE
NUTS 2	BE35 - Prov. Namur
NUTS 3	BE352 - Arr. Namur
Name of Partner in charge	GBC
Number of Partner in charge	5
Name of Contractor	GBC
WP number	4

Contribution to project objectives - Please explain how this Investment contributes to achieving the overall project objectives

This exhibition is an very effective tool to dissiminate the results of the international scientific study and the main findings of the project, especially the properties and the advantages of the eco-materials. It will also show to many consumers, candidate builders, students, architects and craftsmen where and how the ecomaterials can be installed. By transfering the mobile exhibition in several regional fairs, schools or public buildings, we will also be able to reach much more people, and especially those less proactive in this field.
Public communities involvment : Walloon Region (Economy & Employment/ Energy), Belgian Building Research Institute (BBRI – CSTC).
The Belgian Institute for Wood Technology (CTIB-TCHN), Valbois - Natural Resources, Bureau Economique de la Province de Namur (BEP), Wood competence center (East region), Interface ASISIF Entreprises.
Business communities involvment : 98 eco-enterprises members of the regional network of eco-construction, Walloon Confederation of Construction (CCW), Fedustria (Federation of the belgian textile, wood and furniture industry), Chamber of Commerce of Namur (CCI Namur), Chamber of Commerce of Luxembourg (CCI Luxembourg), Wood & Building association. Passivhouse Plaftorm

Transnational added value - What is transnational of the investment and how does it create an added value through transnational cooperation? How is the experience used after the project?

Through the showrooms network, the results of the international study will be dissiminated in each of the partner countries, all the results being avalaible in Wallony through Internet but also by the interactive terminals. As the exhibition materials are mobile, the exhibition (or some parts of it) can also be moved in other partner regions. End but not least, with one of the interactive terminals it will be possible to explore virtually other showrooms of the network.

Innovative aspects - What is innovative about this investment?

Almost all the materials presented in this exhibition are quite new products that most people ignore. And the exhibition will also focus on specific characteristics of the ecomaterials like their life-cycle analysis, their impacts on comfort and on health... End but not least, if most showrooms are static, without possibilitiy of interactions with the visitors and without sections of installed materials, this mobile and interactive showroom seems to be especially innovative. For example, devices or sensors connected to a PC will allow some experiments conducted by the visitors : their aim is to show the static and dynamic thermal properties (inertia, etc) of these materials, their acoustic properties if necessary and how they regulate the inside humidity.
Key elements of the demonstration building and showroom : recent museum techniques if possible and films, interactive video-equipments, sensors, mock-ups and 3-D demonstration model, sections of walls, samples, noticeboards with photos.

Timeframe	01/Jan/2010 - 01/Dec/2012

Budget breakdown: e.g. Work preparation, Feasibility study, Land purchase, Construction costs, …

Description	50,000
Total	**50,000**

Investment 5 [WP4I5] Renovated demonstration building in Belgium (Wallonia)

Description

The exhibition will be located in a building open to the public that was recently renovated or built following the principles of the green building, to inform the candidate builders (households, investors, municipalities,…) and the craftsmen in Wallonia about the most performant and ecological materials available in their region and in the neighbourgh regions (Flanders, France, UK, Netherlands, Germany), and to explain them how these materials can be applied (new houses, renovation).The investment will only concern the exhibition content which will especially focus on the new eco-materials manufactured and used in Wallonia.
Different features of the exhibition will be available : -Semi-permanent exhibition room for students, achitects, craftsmen, associations, candidate builders and visitors from other countries.-Mobile show-room for fairs in Wallonia or abroad-Mobile show-room that can be used by members or partners of the GBC and by the partners of the CAP'EM project (abroad).
In particular, the elements of house presented in the exhibition will include examples and sections of walls, floors or underroof made with lime and hemp concrete, acoustic panels (made of recycled paper), straw or cork panels, horizontal stacking of rectangular wooden beams (MHM), laminated beams produced with an ecological process and other new building ecomaterials still in development at this moment, without forgetting window frames for passive houses, glasses integrating photovoltaïc devices... Interactive terminals and special devices or sensors will also made the visit more attractive and more informative.

At least 20% of the elements presented in the demonstration centre will have mobile features, allowing them to be a part of the mobile transnational exhibition for profesional fairs. Those elements will preferably refer to eco-materials available across NWE. See also annex 5.

Geographical scope. Please fill in the NUTS III region in which the investment is located.

Country	BE
NUTS 1	BE3 - RÉGION WALLONNE
NUTS 2	BE35 - Prov. Namur
NUTS 3	BE352 - Arr. Namur
Name of Partner in charge	VIBE
Number of Partner in charge	9
Name of Contractor	VIBE
WP number	4

Contribution to project objectives - Please explain how this Investment contributes to achieving the overall project objectives

This exhibition is an very effective tool to dissiminate the results of the international scientific study and the main findings of the project, especially the properties and the advantages of the eco-materials. It will also show to many consumers, candidate builders, students, architects and craftsmen where and how the ecomaterials can be installed. By transfering the mobile exhibition in several regional fairs, schools or public buildings, we will also be able to reach much more people, and especially those less proactive in this field.
Public communities involvment : Walloon Region (Economy & Employment/ Energy), Belgian Building Research Institute (BBRI – CSTC).
The Belgian Institute for Wood Technology (CTIB-TCHN), Valbois - Natural Resources, Bureau Economique de la Province de Namur (BEP), Wood competence center (East region), Interface ASISIF Entreprises.
Business communities involvment : 98 eco-enterprises members of the regional network of eco-construction, Walloon Confederation of Construction (CCW), Fedustria (Federation of the belgian textile, wood and furniture industry), Chamber of Commerce of Namur (CCI Namur), Chamber of Commerce of Luxembourg (CCI Luxembourg), Wood & Building association. Passivhouse Plaftorm

Transnational added value - What is transnational of the investment and how does it create an added value through transnational cooperation? How is the experience used after the project?

Through the showrooms network, the results of the international study will be dissiminated in each of the partner countries, all the results being avalaible in Wallony through Internet but also by the interactive terminals. As the exhibition materials are mobile, the exhibition (or some parts of it) can also be moved in other partner regions. End but not least, with one of the interactive terminals it will be possible to explore virtually other showrooms of the network.

Innovative aspects - What is innovative about this investment?

Almost all the materials presented in this exhibition are quite new products that most people ignore. And the exhibition will also focus on specific characteristics of the ecomaterials like their life-cycle analysis, their impacts on comfort and on health... End but not least, if most showrooms are static, without possibilitiy of interactions with the visitors and without sections of installed materials, this mobile and interactive showroom seems to be especially innovative. For example, devices or sensors connected to a PC will allow some experiments conducted by the visitors : their aim is to show the static and dynamic thermal properties (inertia, etc) of these materials, their acoustic properties if necessary and how they regulate the inside humidity.
Key elements of the demonstration building and showroom : recent museum techniques if possible and films, interactive video-equipments, sensors, mock-ups and 3-D demonstration model, sections of walls, samples, noticeboards with photos.

Timeframe	01/Jan/2010 - 01/Dec/2012

Budget breakdown: e.g. Work preparation, Feasibility study, Land purchase, Construction costs, …

Description	50,000
Total	**50,000**

Investment 6 [WP4I6] Showroom in Picardie Region

Description

This exhibition is an very effective tool to dissiminate the results of the international scientific study and the main findings of the project, especially the properties and the advantages of the eco-materials. It will also show to many consumers, candidate builders, students, architects and craftsmen where and how the ecomaterials can be installed. By transfering the mobile exhibition in several regional fairs, schools or public buildings, we will also be able to reach much more people, and especially those less proactive in this field.

Geographical scope. Please fill in the NUTS III region in which the investment is located.

Country	FR
NUTS 1	FR2 - BASSIN PARISIEN
NUTS 2	FR22 - Picardie
NUTS 3	FR221 - Aisne
Name of Partner in charge	GLOBE 21
Number of Partner in charge	6
Name of Contractor	GLOBE 21
WP number	4

Contribution to project objectives - Please explain how this Investment contributes to achieving the overall project objectives

Public communities involvment : Union des communautés de communes de l'Aisne, Aisne Council (french departement)
Business communities involvment : - 40 regional eco-enterprises members of the regional network of eco-construction

Transnational added value - What is transnational of the investment and how does it create an added value through transnational cooperation? How is the experience used after the project?

Through the showrooms network, the results of the international study will be dissiminated in each of the partner countries, all the results being avalaible in Picardie through Internet but also by the interactive terminals. As the exhibition materials are mobile, the exhibition (or some parts of it) can also be moved in other partner regions. End but not least, with one of the interactive terminals it will be possible to explore virtually other showrooms of the network.

Innovative aspects - What is innovative about this investment?

Almost all the materials presented in this exhibition are quite new products that most people ignore. And the exhibition will also focus on specific characteristics of the ecomaterials like their life-cycle analysis, their impacts on comfort and on health... End but not least, if most showrooms are static, without possibilitiy of interactions with the visitors and without sections of installed materials, this mobile and interactive showroom seems to be especially innovative.

Timeframe	01/Jan/2009 - 01/Dec/2012

Budget breakdown: e.g. Work preparation, Feasibility study, Land purchase, Construction costs, …

Description	27,894
Total	**27,894**

Investment 7 [WP4I7] Renovated demonstration building in Germany

Description

The building is one part of the renovation of a holistic homestead, called “Haus Kump”, which consists of 5 buildings forming a square ,including:
- A main farmhouse (reconstructed after the war)
- A former stable (brick building with armoured concrete skeleton)
- Another former stable (flat building reconstructed around 1960)
- A storage house (original substance from 1549 / landmarked).
- A barn (reconstructed after the war)

The whole homestead will be refurbished, partly new built. In the first place, at the time of the application for CAP’EM funds the intention was to rebuild the barn of the homestead. Meanwhile it turned out, that this building cannot be built combining INTERREG and BAFA funding. Therefore in CAP’EM the Chamber of Crafts of Münster had to switch to the refurbishment of the old storage house within CAP’EM, which will also include the exhibition centre. There will be no external cofinancing. All the cofinancing will be taken by the Chamber of Crafts itself.
As it is a landmarked building, the oldest building in Münster, the storage house will be refurbished taking into account all heritage restrictions. It is a four storey timber framed brick construction with a total surface area of 230 m². Because of the landmark restrictions the building cannot be refurbished to the same high level thermal standard originally planned for the previous object. There will be a clear focus on ecological building materials from natural resources. The emphasis of materials will be on wood and insulation from natural resource (like hemp, flax, wood fibre etc.), clay and wall coatings with natural fibres.
The fundamental conception of the exhibition is that the materials and constructions realised in the building will also be found in the exposition (see materials mentioned above). The idea is to produce mockups from some selected typical constructions of the building including the alternative constructions for thermal high level insulation.

Geographical scope. Please fill in the NUTS III region in which the investment is located.

Country	DE
NUTS 1	DEA - NORDRHEIN-WESTFALEN
NUTS 2	DEA3 - Münster
NUTS 3	DEA33 - Münster, Kreisfreie Stadt
Name of Partner in charge	HWK
Number of Partner in charge	7
Name of Contractor	HWK
WP number	4

Contribution to project objectives - Please explain how this Investment contributes to achieving the overall project objectives

The whole building is well positioned to attract attention: next to the premises of the vocational training Centre of the Chamber of Crafts it will be frequented by the expert public of the training centre (2000 from all over North Rhine Westfalia every day) and by the general public, because it is situated in an important recreation area of the city.
It will be predestined to a high public perception and the Chamber of Crafts is prepared to enhance the public relations in terms of the demonstration building and room and in terms of ecological building. In the network, it is in advance to the other partners as to demonstration experience and that is why it took the part of coordinator of WP4.
The demonstration experience of the Chamber of Crafts is the following one: the training centre already disposes of a Demonstration Centre of Building and Energy for new houses since 2004 which has been visited by thousands of crafts, architects, producers and traders of construction products, multipliers and citizens from Münster, North-Rhine-Westfalia, Germany and other countries. In future all these visitors shall also be lead to the CAP’EM Ecological building Demonstration Centre of Refurbishment. At least 20% of the elements presented in the demonstration centre will have mobile features, allowing them to be a part of the mobile transnational exhibition for professional fairs. Those elements will preferably refer to eco-materials available across NWE.

Transnational added value - What is transnational of the investment and how does it create an added value through transnational cooperation? How is the experience used after the project?

All the showrooms will be linked on a web-site and the other demonstration rooms will also be reachable for the visitors from inside every showroom. This is very important for the impact of every single demonstration building and room. Only the network can represent the whole wide range of construction possibilities and product alternatives.
The network will be necessary to communicate the idea of ecological construction as a widespread and common one approved in many European countries. Ecocogical ideas have to be adapted by lots of people for being convincing for others. Especially in Germany - once in Europe the precursor in green ideas and green building – ecological building has to be torn out of an ideological corner and has to be made an equivalent to modern and future-orientated building with products fitting into general marketing channels. This can best be done by a European consensus and united action.
The Chamber of Crafts will continue to foster ecological building and ecological building materials after the end of the project. By then, a dissemination and counselling project could be established for other European countries.The partners of this project will be looking for possibilities of ongoing cooperation during the project and are sure to find them.
The renovated storage house with the Cap’em exhibition is positioned in between several (new and restored) buildings of the HBZ. It will be used for the same purposes as in the project after the project. Showing the exhibition to the expert public and general public will be a persistent and permanent part of the service offer of the HBZ. There will be ongoing guided tours and lectures and other events in this house.

Innovative aspects - What is innovative about this investment?

There is innovation in several dimensions:
- The Demonstration building and the showroom will be ultimately linked as the showroom will contain models from constructions realized in the building.
- The Demonstration of Ecological materials will be embedded in a refurbishment context. The refurbishment market is by far the more important market than building of new houses.
- The Demonstration building will combine ecological materials and best energy-saving solutions and is therefore as a whole a demonstration of excellent future-orientated building.
- The Demonstration building is supposed to combine ecological materials with good architecture so that the visitors won't have the impression that eco-building means renouncement but that it means choosing the best building option."

Timeframe	01/Sep/2009 - 01/Dec/2012

Budget breakdown: e.g. Work preparation, Feasibility study, Land purchase, Construction costs, …

Description	110,500
Description	675,500
Total	**786,000**

Investment 8 [WP4I8] Renovated demonstration building in The Netherlands

Description

Production of a demonstration room that will be dedicated to ecomaterials that comply with the project standards. Showroom will be developed as a 'special projects' section of the existing larger permanent SVE exhibition of ecomaterials, water and energy saving equipment and eco building services (since 1995). Investments will be done in upgrading and equipping the now abandoned hall, upgrading the entrance and reception and adding elements in which the actual accomodation falls short compared to the criteria for showrooms to be developed within the project.
At least 20% of the elements presented in the demonstration centre will have mobile features, allowing them to be a part of the mobile transnational exhibition for profesional fairs. Those elements will preferably refer to eco-materials available across NWE.

Geographical scope. Please fill in the NUTS III region in which the investment is located.

Country	NL
NUTS 1	NL4 - ZUID-NEDERLAND
NUTS 2	NL41 - Noord-Brabant
NUTS 3	NL414 - Zuidoost-Noord-Brabant
Name of Partner in charge	SVE
Number of Partner in charge	8
Name of Contractor	SVE
WP number	4

Contribution to project objectives - Please explain how this Investment contributes to achieving the overall project objectives

The exisiting SVE exhibition plays an important role in providing national professional building partners with up-to-date information about ecological building products and methods, and perceiving trends in sustainable housing. As part of the SVE exhibition halls, the showroom to be added will attract the right target groups for adopting and spreading the project objectives. Public communities involvment : Province of Noord-Brabant, Steering Committee for Experiments in Public Housing (SEV), SenterNovem (dutch agency of the Ministry of Economic Affairs, for innovation and sustainable development), Delft University of Technology, Eindhoven University of Technology, Several professional education centres and schools.
Business communities involvment : Association VIBA, with about 60 professional members, all involved in healthy, biological and ecological building, manufacturing and design. Our members and their network: more than 100 Dutch innovative architects, artisans, advisors, building contractors, project developers, manufacturing companies, public/private and private organizations, all involved in sustainable and healthy construction and living, water and sanitation and energy saving. Among them: EVA Lanxmeer, a district of the city of Culemborg, a completely sustainable community, arisen from a private initiative; one of the largest exemples of sustainable building and living in Europe. NIBE research, national research institute for ecological building, specialized in sustainability assessment tools for building products, buildings and civil constructions.

Transnational added value - What is transnational of the investment and how does it create an added value through transnational cooperation? How is the experience used after the project?

Nowadays, the SVE exhibition already attracts international attention. Through investing in a showroom dedicated to European acknowledged ecological building materials, the chances in mutual transnational cooperation by exchanging contacts in the field of a better, healthier and more sustainable housing will increase. In order to keep up with internatonal developments in this field, one may expect that continued transnational relationships will be established through the network of showrooms and affiliated organizations.

Innovative aspects - What is innovative about this investment?

The building the demonstration room will be accomodated in, is an example of sustainable re-allocation of destination: it has been built as a biscuit and marmelade factory of a large chain store, 'De Gruyter', and has been abandoned after the bankruptcy of the enterprise. After rehabilitation the building now shelters creative smaller and intermediate profit and non profit businesses, among which SVE, that occupies some 2200 m2. Most innovative element of the investment is the choice of the building products that will be worked with: the rehabilitation of the hall and adjacing spaces that will shelter the showroom will be executed with building materials and energy saving equipment representing the optimal ecological choice for this application. Once finished, the hall itself will be a splendid example of ecological rehabilitation.

Timeframe	01/Jan/2010 - 01/Dec/2010

Budget breakdown: e.g. Work preparation, Feasibility study, Land purchase, Construction costs, …

Total **0**

Investment 9 [WP4I9] New demonstration building in Belgium (Flanders)

Description

A new building will be set up and will serve as a joint meeting centre and/or secretariat for different organisations, occupied with sustainabilty and/or environment and hosting the showroom. The building will include offices for several NGO's, library and documentation centre (ecological construction, organic agriculture, mobility, sustainability in general…), meeting places and limited exhibition (ecological construction and possibly other core themes of the participating NGO's).
The building itself will be constructed following low energy building principles (possibly passive house principles), and with building materials that will be selected as 'ecological' by the CAP'EM project. In this way, the building itself will be a giant 'life' exhibition 'in use'. Wherever accessible and possible, labels, posters, cuts and models will explain the functioning of the building, the used ecological building techniques and the used ecological building materials. The used ecological building materials will also be exhibited in a room where advice for building professionals and individual builders will be given.
At least 20% of the elements presented in the demonstration centre will have mobile features, allowing them to be a part of the mobile transnational exhibition for profesional fairs. Those elements will preferably refer to eco-materials available across NWE..

Geographical scope. Please fill in the NUTS III region in which the investment is located.

Country	BE
NUTS 1	BE2 - VLAAMS GEWEST
NUTS 2	BE21 - Prov. Antwerpen
NUTS 3	BE211 - Arr. Antwerpen
Name of Partner in charge	VIBE
Number of Partner in charge	9
Name of Contractor	VIBE
WP number	4

Contribution to project objectives - Please explain how this Investment contributes to achieving the overall project objectives

The demonstration building will serve as exhibition room for al lot of the building materials which were selected with the tool which is going to be developped in the project.
The building itself will be constructed following low E building principles, and with building materials that will be selected as 'ecological' by the CAP'EM project. Wherever accessible and possible, labels, posters, sections and models will explain the functioning of the building, the used ecological building techniques and building materials. In the showroom, there will be place for CAP'EM-tested ecological building materials, and possibly building techniques.
As said, the building itself will be an actual exhibition. While wandering around the building, visitors will be able to read illustrated poster presentations and/or information panels, see models of the sections of the wall-, roof- and floor-constructions which are used in building, see 'truth windows' etc…
Apart form an exhibition room, the whole building will be a 'living' demonstration object of the CAP'EM-selected materials (and ecological building technologies).
Public communities involvment : project working groups of Flemish public administration project. Steering committee project 'sustainable building' of province of Limburg. Participant of 'Tandem'.Organisation of Batibouw-participation. Local governments (s.a. Gent, Brussels, Antwerp, a lot of smaller towns and villages). All Flemish provinces.
Business communities : Belgian representative and member of board of Natureplus (international label for construction products), VIBE-label: ca. 120 building professionals labelled. Collaboration with Passive house platform, Network of Flemish NGO's and small businesses, preparing a joint ecological secretariat in Antwerp, with support of city and province of Antwerp.

Transnational added value - What is transnational of the investment and how does it create an added value through transnational cooperation? How is the experience used after the project?

The building/schowroom will have a more than local significance. It would be the first exhibition room in Belgium completely dedicated to selected ecological building materials and techniques. At the same time, we aim at an international public of ecological builders (professionals, officials, individuals). Hereby, we also rely on the CAP'EM partners' networks.
During planning and construction of the building/exhibition center, the CAP'EM project partners will be invited to visit the ongoing work. The results of this project will permanently be reported in CAP'EM project meetings. Lessons learned will be transmitted, as this project also will take advantage of the lessons learned in the other CAP'EM-investment projects. CAP'EM will install an international 'visitation commission' for international on-site exchange.
Parts of the exhibition (models, information boards) will be available for foreign or international exhibitions by CAP'EM project partners of international initiatives.
During the construction phase, VIBE will not only contact Flemish architects and entrepreneurs for education and training on the building site, but also professionals of other countries. This will happen via the other CAP'EM partners. In the same way, VIBE will invite Flemish building professionals to visit foreign CAP'EM demonstration and building sites.
Throughout the project and within the demonstration building, emphasis will be laid on the international character of the project, the CAP'EM network and the CAP'EM networks buildings/demonstration rooms and demonstration and information tools.

Innovative aspects - What is innovative about this investment?

Existing demonstration buildings focus on 'sustainable' building, leaving the definition of 'ecological' building material deliberately unclear. This exhibition room will demonstrate that 'sustainable' buildings should not only be energy-efficient and water-saving, but also built with ecological materials. this building will demonstrate the feasabilitiy of this.
The building/schowroom will have a more than local significance. It would be the first exhibition room in Belgium completely dedicated to selected ecological building materials and techniques. At the same time, we aim at an international public of ecological builders (professionals, officials, individuals). Hereby, we also rely on the CAP'EM partners' networks.
After the end of the project, the building will stay in use as an actual functioning model exhibition building with showroom, where ecological building advice will be given to any interested public.
There will be a continuing collaboration with EcoHuis Antwerpen (EHA), which is partner in the 'Living Green' project. VIBE was already a partner and advisor in EHA.

Timeframe	01/Jan/2009 - 01/Dec/2011

Budget breakdown: e.g. Work preparation, Feasibility study, Land purchase, Construction costs, …

Description	50,000
Description	445,180
Description	20,000
Total	**515,180**

Investment 10 [WP4I10] Movable and permanent eco-materials exhibition in the Netherlands

Description

• Establishment of a movable exhibition in the province of Gelderland and one or more movable CAP'EM exhibitions circulating through the country. Locations: Wageningen, Agrodome, ICDubo, Rotterdam and during the project on 4 or 5 places in Gelderland (Apeldoorn, Natuurhuis/Apenst@@rt; Arnhem, HAN education centre; Wageningen University Researchcenter: University of Nijmegen and a location in the Achterhoek to be chosen). The investments are made for 2x 4-7 elements 1:1 and panels for explaining the practical buidingaspects of ecomaterials, furthermore there will be paid for transporting of the elements, arranging the exhibitions, rents for use of the exhibition and demonstrationrooms during the project.
The showrooms and exhibitions are open to the targetgroups acoording to the possibiliteis of the rooms and demands of the targetgroups. In fact the exhibitions will function as a real life demonstration of possibilities in the use of eco-materials and will fit in the other activities (workshops, lectures etc.)
• Establishment of a permanent CAP'EM showroom and visitor's centre, this will be continued after the project by Stichting Agrodome

Geographical scope. Please fill in the NUTS III region in which the investment is located.

Country	NL
NUTS 1	NL2 - OOST-NEDERLAND
NUTS 2	NL22 - Gelderland
NUTS 3	NL221 - Veluwe
Name of Partner in charge	AGRODOME
Number of Partner in charge	10
Name of Contractor	AGRODOME
WP number	4

Contribution to project objectives - Please explain how this Investment contributes to achieving the overall project objectives

Showing the CAP'EM assessed products in one permanent exhibition space, as well as one or more temporary exhibitions, and organizing workshops for Dutch target groups in the building process, in order to spread the acceptance and use of the CAP'EM assessed products

Transnational added value - What is transnational of the investment and how does it create an added value through transnational cooperation? How is the experience used after the project?

The showrooms are part of the international showroom network that is going to be established during the project by all project partners in participating countries. This will enable and stimulate the cooperation and the exchange of national experiences between the network members. As the showrooms will continue to operate also after the end of the project, these contacts will also be prolongated into the future. The showroom network will also facilitate network related companies in the field of sustainable housing to keep up with international developments.

Innovative aspects - What is innovative about this investment?

Agrodôme will invest in setting up exhibitions in new, contemporary buildings and regeneration projects. The new builds will be state-of-the-art examples of bio based and sustainable building. The refurbishment of older buildings prolonge their life span to reduce the environmental impact during its complete life cycle, whilst demonstrating "eco-renovation" methods that should be applied to existing building stock. This way of stationing the exhibitions combines the informative function with a tangible and up to date example of practical application of responsible building or refurbishing.
The investment in movable and (semi-) permanent exhibitions is in fact an investment in exhibition elements, hands-on training facilities and accompanying equipment. These will facilitate the highest possible flexibility and adaptation to recent and new developments to the lowest annual costs and without financial risks: no real estate ownership, no limitation to one locality, and in the longer term, no risk of being sheltered in a no longer the state-of-the-art building.

Timeframe	01/Oct/2010 - 31/Dec/2012

Budget breakdown: e.g. Work preparation, Feasibility study, Land purchase, Construction costs, …

Description	16,400
Description	24,400
Description	13,600
Description	75,437
Description	49,200
Description	49,933
Total	**228,970**

6. Partnership

6.1 Description of partnership

Why is the partnership relevant to the project? Please demonstrate how the partners have the expertise to fulfil the project objectives.

The partnership was built on an existing network of major professionnal organisations all involved in the promotion of eco-construction : France (CD2E), Great Britain (Greenspec) , Belgium (GBC and VIBE) and The Netherlands (SVE). We are all very motivated to sort out the problems of eco-materials business development. A first cooperation was built for the grouped participation at the show "batir ecologique" in Paris (December 2007). It allows us to test the idea of transnational network on the topic of eco-construction / eco-materials. The need for a recognized simplified tool, based on LCA methodology quickly appeared as a key point wich could allows us to unlock the market, for the benefit of the offer and the demand. The idea of a project dedicated to capitalisation and harmonisation based on a new tool begins comes out in 2007, the project will be the first one for the official network and will streghten the links between the partners.
The CAPEM partnership is today composed of 9 partners which represent 5 different member states : 2 in France (Nord Pas de Calais and Picardie Region), 2 in Belgium (Flanders and Wallonie), 2 in Great Britain, 1 in Germany and 2 in the Netherlands. All the parners are the major organisations involved in the field of eco-construction in their geographical area, and are supported at least by local authority and professional traditionnal construction organisations (for example Fédération Française du Bâtiment in France). The implication of each partner (especially in WP) was established both on their experience and major field of expertise. The investments scheduled demonstrate that the use of eco-materials will be integrated into a common process.
The partnership has changed in April 2011 and is now composed of 8 partners : 2 in France (Nord Pas de Calais and Picardie Region), 2 in Belgium (Flanders and Wallonie), 2 in Great Britain, 1 in Germany and 1 in the Netherlands.

How are the partners going to work with each other? What methods will you use to ensure cooperation?

Partners will naturally cooperate as they allready did during the genesis of the project, taking advantage of complementary skills and experiences of each other. The general idea to manage the project is to use the governancy model of sustainable developpement : every Work Package leader will report its work progress to the lead partner, all partners of the project will be involved in each work package, to give their point of view, all important decisions will have to be validated at the transnational level. The WP working cessions will be organized as possible in different sites to allow a better knowledge of each other and to work with efficiency. Other times, internet tools will be used, to minimise the carbon impact of the project. The idea of measuring the carbon impact related to the CAPEM project has been proposed by all the partners ; the promotion of eco-materials and the increase of their markets shares will be evaluated at the end of the project as a carbon compensation.
Several partners have the official accreditation to lead carbon evaluations. The cooperation will be then extended after the duration of the project : all the buildings (new construction or renovation) and showrooms that will represent the NWE network for eco-construction/eco-materials will represent contact and counselling places for all existing (or in development process) SME's that want to propose on the market greener products. All the centers will be linked together to facilitate the understanding of the construction sector, its evolution towards new priorities (energy consumption, neutral carbon materials...) and the choice of proven strategies that perform well (environmental assesments, bests labels, certification schemes, networks for distribution, best targets etc..).

6.2 Partnership details

Lead Partner

Institution (Official name)	Création et Développement des Eco-Entreprises (CD2E)
Legal Status	Non-Profit Organisation
Typology	Regional development agencies
Homepage	www.cd2e.com
Address	Base 11/19 - B.P. 64
Postal Code	62750
Town	Loos-en-Gohelle
Please fill in the NUTS region (see Guidance Note 25)	
Country	FR
NUTS 1	FR3
NUTS 2	FR30
NUTS 3	FR302
Phone (office)	33 321130680
Contact person	Christian Traisnel
E-mail	c.traisnel@cd2e.com
Name of the first level controller	
Name of controller's organisation	
ERDF grant rate to be applied	50.00 %
Is the VAT recoverable?	No
Contribution	

CD2E is an consultancy association supporting more than 500 eco-enterprises in Northern France and covering eco-construction as one its major field of expertise. CD2E has the experience of involvment in Interreg project management further to two previous projects within Interreg IIIA programme with English partners.
CD2E has a broad experience of communication towards entreprises, specifically SME's, with relevant tools dedicated to eco-construction promotion and support : web database of eco-materials, regional network of qualififed regional eco-construction network (www.cd2e.com), expertise dissemination on sustainable construction , energy efficicency and renewable energy. It also recently (2006-2007) developped a specific tool about simplified LCA applied to eco-materials that will be brought to the project. CD2E have also close contact with different experts of eco-design / LCA at national level, like the French Ministry of Environment and Sustainable Development.
Preparation meeting and writing
General management and coordination
Financial and communication management
WP1 : Presentation of existing methodologies ; Discussion and design of procedure ; Specification of computer software ; Selection of 30 reference eco-materials ; Testing and setting of computer software ; Testing and setting of procedure
WP2 : Selection of 150 eco-materials ; Critical collection of requested data ; Evaluation of 150 eco-materials ; Classification of 150 eco-materials ; Market approach for 150 eco-materials
WP3 : Design, specification and implementation of communication strategy (manufacturers and retailers)
WP4 : Design and specification of demonstration buildings ; Implementation of demonstration network
WP 5 : Benchmark LC tools, formalize partnerships with existing tools, incorporate 10 CAP'EM datasets in these tools
WP 6 : Participate in the EPD's governance, produce 5 EPD's from CAPEM datas

Bank details - Note that the Lead Partner must open a separate account for the project	
Bank Name	CREDIT COOPERATIF
Address	BP 80115
Postal Code	62002
Town	Arras
Country	FR
Account No. IBAN	42559000642102733200917
SWIFT Code	CCOPFRPPXXX
National Bank Code	FR76
Holder of account	CD2E

List of sub-partners, if any

French Federation of SCOP BTP	www.scop-btp.com
ICAM Lille (eco-design expert)	www.icam.fr
Ecointesys consultancy bureau (LCA expert)	
Fédération Française du Bâtiment Nord Pas de Calais (FFB)	www.nordpdc.ffbatiment.fr
Centre de ressources et de compétences pour la qualité en éco-construction et construction basse énergie (CEREC BTP)	www.ekwation.fr

Indicative budget per budget line

1. Partner Staff	1,192,409.41
2. External Experts & Consultants	203,933.44
3. Travel & Accommodation	47,941.15
4. Meetings & Seminars	28,348.51
5. Publicity	558,841.32
6. Equipment	5,000.00
7. Investment	600,000.01
8. Audit costs/First level control	29,163.20
9. Administration Costs	151,479.95
Sub-Total Eligible Cost	**2,817,116.99**
10. Revenues	0.00
Total Eligible Cost	**2,817,116.99**

Origin of the match-funding (indicative)

Nord - Pas-de-Calais Regional Council	Regional Public Authority	302732
DRIRE	Regional Public Authority	448548
Private	Private Enterprise	657278.5

Partner 2

Institution (Official name)	Association of Community Rail Partnerships (ACORP)
Legal Status	Non-Profit Organisation
Typology	National development agencies
Homepage	www.acorp.uk.com
Address	15A New Street - Civic Hall - Slaithwaite
Postal Code	HD7 5AB
Town	Huddersfield
Please fill in the NUTS region (see Guidance Note 25)	
Country	UK
NUTS 1	UKE
NUTS 2	UKE4
NUTS 3	UKE43
Phone (office)	44 1484847790
Contact person	Neil Buxton
E-mail	neil@acorp.uk.com
Name of the first level controller	
Name of controller's organisation	
ERDF grant rate to be applied	50.00 %
Is the VAT recoverable?	Yes
Contribution	

ACORP is a nation-wide professional association dedicated to environment protection and railway transportation. ACORP is an organisation of ‘do-ers’, focused on practical initiatives which add up to a better more sustainable local railway. It is well experienced in education and training that it will bring to the project. In January 2004 ACoRP took over the consultancy work of TR&IN (Transport Research and Information Network), wich has over 10 years of experience in consultancy related to railways and their social, economic and environmental benefits. As the implication of ACORP into sustainable development initiatives is very important, they join the CAPEM project with the proposition of mixing interesting topics : railway and eco-materials / eco-construction, renovation of existing old historic railway construction, social and economic positive impacts, sustainable development for railway in Great Britain.
Preparation meeting
WP3 : Design, specification and implementation of communication strategy (users and advisers)
WP4 : Design and specification of demonstration buildings ; Implementation of demonstration network
WP 5 : Relay information, actions and results in their region
WP6 : Relay information, actions and results in their region

List of sub-partners, if any

Transport regeneration (sustainability expert)

Indicative budget per budget line

1. Partner Staff	88,616.00
2. External Experts & Consultants	57,256.00
3. Travel & Accommodation	15,697.00
4. Meetings & Seminars	1,800.00
5. Publicity	17,000.00
6. Equipment	0.00
7. Investment	538,500.00
8. Audit costs/First level control	3,106.00
9. Administration Costs	10,739.00
Sub-Total Eligible Cost	**732,714.00**
10. Revenues	0.00
Total Eligible Cost	**732,714.00**

Origin of the match-funding (indicative)

ACORP fundings	Private Enterprise	141235
RHT funds	National Public Authority	112561
Network rail	National Public Authority	112561

Partner 3

Institution (Official name)	Business Support Kent (BSK)
Legal Status	Regional Public Authority
Typology	Regional development agencies
Homepage	www.bsk-cic.co.uk
Address	85 High Street
Postal Code	ME4 4EE
Town	CHATHAM
Please fill in the NUTS region (see Guidance Note 25)	
Country	UK
NUTS 1	UKJ
NUTS 2	UKJ4
NUTS 3	UKJ42
Phone (office)	44 8456009006
Contact person	Adrian CHAMPNEY
E-mail	adrian.champney@bsk-cic.co.uk
Name of the first level controller	
Name of controller's organisation	
ERDF grant rate to be applied	50.00 %
Is the VAT recoverable?	No
Contribution	

BSK is an organization providing business support for companies in Kent where eco-construction is very dynamic and culture of supply and demand evaluation is very well developped. It will be helped in the project by Brian Murphy, engineering architect of Greenspec who is very skilled, internationally recognised and well-known on the subject of eco-construction, carbon neutral housing and eco-materials. Brian has a very good experience in internet dissemination through a website dedicated to eco-construction (www.greenspec.co.uk) which is the reference in anglo-saxon world (50 000 visitors per month). A specific evaluation methodology and tool has been set up since 2004 by Greenspec to evaluate materials and products with sustainable criterias, that will be brought to the project.
Preparation meeting
WP2 management
WP1 : Discussion and design of procedure
WP2 : Selection of 150 eco-materials ; Critical collection of requested data ; Evaluation of 150 eco-materials ; Classification of 150 eco-materials ; Market approach for 150 eco-materials
WP3 : Design, specification and implementation of communication strategy (users and advisers)
WP4 : Design and specification of demonstration buildings ; Implementation of demonstration network
WP 5 : Relay information, actions and results in their region
WP6 : Relay information, actions and results in their region

List of sub-partners, if any

Greenspec

Indicative budget per budget line

1. Partner Staff	598,749.36
2. External Experts & Consultants	43,755.00
3. Travel & Accommodation	33,800.00
4. Meetings & Seminars	23,999.99
5. Publicity	60,750.00
6. Equipment	0.00
7. Investment	531,000.00
8. Audit costs/First level control	15,075.00
9. Administration Costs	55,968.00
Sub-Total Eligible Cost	**1,363,097.35**
10. Revenues	0.00
Total Eligible Cost	**1,363,097.35**

Origin of the match-funding (indicative)

Kent County Council	Regional Public Authority	688299

Partner 4

Institution (Official name)	De Groene Stee (DGS)
Legal Status	Private Enterprise
Typology	Other (to be specified below)
Homepage	
Address	Frambozenweg 41
Postal Code	2321 KA
Town	Leiden
Please fill in the NUTS region (see Guidance Note 25)	
Country	NL
NUTS 1	NL4
NUTS 2	NL41
NUTS 3	NL411
Phone (office)	31 715289759
Contact person	Johan Vandrunen
E-mail	han@degroenestee.nl
Name of the first level controller	
Name of controller's organisation	
ERDF grant rate to be applied	50.00 %
Is the VAT recoverable?	Yes
Contribution	

Johan Vandrunen is architect in the Netherlands specifically skilled in eco-construction, design of low energy houses, as passivhouse. He is especially well known as expert in eco-materials because of his implication in the past with the first center of demonstration of Eco-construction / eco-materials in the Netherlands, supported by national authorities "Viba expo - SVE" (www.sveweb.nl). Johan is experienced in the dissemination of an international assessment methodology called "Twin model" developped by NIBE (www.nibe.org) wich is a reference in The Netherlands as simple and practical tool. Twin Model will be brought to the project.
Preparation meeting
WP1 : Presentation of existing methodologies ; Discussion and design of procedure ; Testing and setting of computer software ; Testing and setting of procedure
WP2 : Selection of 150 eco-materials ; Critical collection of requested data ; Market approach for 150 eco-materials
WP3 : Design, specification and implementation of communication strategy (retailers and users)

List of sub-partners, if any

Michiel Haas (LCA expert)

Indicative budget per budget line

1. Partner Staff	73,190.69
2. External Experts & Consultants	31,218.84
3. Travel & Accommodation	4,124.33
4. Meetings & Seminars	0.00
5. Publicity	0.00
6. Equipment	2,401.88
7. Investment	0.00
8. Audit costs/First level control	4,450.00
9. Administration Costs	9,176.09
Sub-Total Eligible Cost	**124,561.83**
10. Revenues	0.00
Total Eligible Cost	**124,561.83**

Origin of the match-funding (indicative)

Privates funds	Private Enterprise	62281

Partner 5

Institution (Official name)	Cluster Eco-Construction
Legal Status	Non-Profit Organisation
Typology	Regional development agencies
Homepage	www.ecoconstruction.be
Address	Rue Henri Lecocq, 47 - Boîte 7
Postal Code	5000
Town	Namur
Please fill in the NUTS region (see Guidance Note 25)	
Country	BE
NUTS 1	BE3
NUTS 2	BE35
NUTS 3	BE352
Phone (office)	32 81714100
Contact person	Claudy MERCENIER
E-mail	info@ecoconstruction.be
Name of the first level controller	
Name of controller's organisation	
ERDF grant rate to be applied	50.00 %
Is the VAT recoverable?	Yes
Contribution	

GBC is one of the official cluster's of the Walloony region in Belgium, wich group 70 eco-construction SME's. GBC is growing fast, thanks to majors successfull projects led since 2002 : development of learnings and skills dedicated to eco-renovation (2005), creation of groupment of SME's dedicated to eco-construction (www.lagrappe.be). GBC is very well experienced in communication towards all actors of the supply chain, and it has a good knowledge of all the SME's involved in the production of eco-materials in Walloony region
Preparation meeting
WP2 : Selection of 150 eco-materials ; Critical collection of requested data ; Market approach for 150 eco-materials
WP3 : Design, specification and implementation of communication strategy (manufacturers and retailers)
WP4 : Design and specification of demonstration buildings ; Implementation of demonstartion network

List of sub-partners, if any

Cluster TWEED (sustainability expert)

RDC Environnement (LCA expert)

University of Leuven (LCA expert)

Indicative budget per budget line

1. Partner Staff	0.00
2. External Experts & Consultants	0.00
3. Travel & Accommodation	0.00
4. Meetings & Seminars	0.00
5. Publicity	0.00
6. Equipment	0.00
7. Investment	0.00
8. Audit costs/First level control	0.00
9. Administration Costs	0.00
Sub-Total Eligible Cost	**0.00**
10. Revenues	0.00
Total Eligible Cost	**0.00**

Origin of the match-funding (indicative)

Wallony government	Regional Public Authority	43933.5

Partner 6

Institution (Official name)	Globe 21
Legal Status	Non-Profit Organisation
Typology	Local development agencies
Homepage	
Address	Ferme du ru Chailly
Postal Code	02650
Town	Fossoy
Please fill in the NUTS region (see Guidance Note 25)	
Country	FR
NUTS 1	FR2
NUTS 2	FR22
NUTS 3	FR221
Phone (office)	33 323716860
Contact person	Yannick Champain
E-mail	yannick.champain@wanadoo.fr
Name of the first level controller	
Name of controller's organisation	
ERDF grant rate to be applied	50.00 %
Is the VAT recoverable?	No
Contribution	

Globe 21 is an official labellised cluster (Local production system "SPL", 2005) of about 20 SME's, all involved in eco-construction sector in the South of Picardy region. GLOBE 21 is led by a highly skilled architect Yannick Champain, specialized in eco-construction and bioclimatic design (www.vivarchi.com). The speciality brought to the project by Globe 21 is eco-materials manufactured from agro-sourced materials.
Preparation meeting
WP1 : Selection of 30 reference eco-materials ; Testing and setting of computer software ; Testing and setting of procedure
WP2 : Selection of 150 eco-materials ; Critical collection of requested data
WP3 : Design, specification and implementation of communication strategy (users and advisers)
WP4 : Design and specification of demonstration buildings ; Implementation of demonstration network
WP 5 : Relay information, actions and results in their region
WP6 : Relay information, actions and results in their region

List of sub-partners, if any

CODEM (eco-materials expert)

Agro-transfert (LCA expert)

Indicative budget per budget line

1. Partner Staff	132,847.04
2. External Experts & Consultants	13,678.00
3. Travel & Accommodation	30,358.64
4. Meetings & Seminars	0.00
5. Publicity	23,194.00
6. Equipment	4,600.00
7. Investment	27,893.60
8. Audit costs/First level control	10,874.52
9. Administration Costs	16,960.00
Sub-Total Eligible Cost	**260,405.80**
10. Revenues	0.00
Total Eligible Cost	**260,405.80**

Origin of the match-funding (indicative)

Conseil général Aisne	Local Public Authority	81179
Private funds	Private Enterprise	49024

Partner 7

Institution (Official name)	Handwerkskammer - Münster (HWK)
Legal Status	Local Public Authority
Typology	Local development agencies
Homepage	www.hbz-bildung.de
Address	Echelmeyerstrasse 1-2
Postal Code	49 02517050
Town	Muenster
Please fill in the NUTS region (see Guidance Note 25)	
Country	DE
NUTS 1	DEA
NUTS 2	DEA3
NUTS 3	DEA33
Phone (office)	49 02517050
Contact person	Sabine Heine
E-mail	sabine.heine@hwk-muenster.de
Name of the first level controller	
Name of controller's organisation	
ERDF grant rate to be applied	50.00 %
Is the VAT recoverable?	No

Contribution

HWK is the Chamber of Craft in the region of Münster but it covers all North Rhenany Westfalia with about 24 000 members. It is especially well experienced in eco-materials, eco-construction, low energy design (passivhouse) and renewable energy. HWK has developped the first demonstration center for eco-construction "Paul Schnitker Haus" (www.demozentrum-bau.de/indeks.php) and promotion of benefits of eco-materials in Germany (2002), wich is supported directly by national authorities. The center is organising 200 training cessions in the field of eco-construction / renewable energy per week and is the most important one in Germany dedicated to environment and building construction, which makes of HWK a reference partner at the European scale. The centre currently used for demonstration and training appears to be too small and does not cover renovation matters.
Preparation meeting
WP4 management
WP2 : Selection of 150 eco-materials ; Critical collection of requested data
WP3 : Design, specification and implementation of communication strategy (manufacturers and users)
WP4 : Design and specification of demonstration buildings ; Implementation of demonstration network
WP 5 : Relay information, actions and results in their region
WP6 : Relay information, actions and results in their region

List of sub-partners, if any

Markus Hemp (conctruction expert)

Indicative budget per budget line

1. Partner Staff	212,820.57
2. External Experts & Consultants	24,500.00
3. Travel & Accommodation	33,630.01
4. Meetings & Seminars	14,014.27
5. Publicity	24,500.00
6. Equipment	0.00
7. Investment	785,999.99
8. Audit costs/First level control	5,526.00
9. Administration Costs	19,865.92
Sub-Total Eligible Cost	**1,120,856.76**
10. Revenues	0.00
Total Eligible Cost	**1,120,856.76**

Origin of the match-funding (indicative)

BAFA (National office for controls of export)	National Public Authority	500000
Private funds	Private Enterprise	60428.5

Partner 8	
Institution (Official name)	Stichting Viba Expo (SVE)
Legal Status	Private Enterprise
Typology	National development agencies
Homepage	www.sveweb.nl
Address	Bedrijvencentrum Brabant - Veemarktkade 8
Postal Code	5201 AT
Town	Hertogenbosch
Please fill in the NUTS region (see Guidance Note 25)	
Country	NL
NUTS 1	NL4
NUTS 2	NL41
NUTS 3	NL414
Phone (office)	31 736216943
Contact person	Dea Vanheugten
E-mail	deavanheugten@sveweb.nl
Name of the first level controller	
Name of controller's organisation	
ERDF grant rate to be applied	50.00 %
Is the VAT recoverable?	Yes
Contribution	

SVE - Viba Expo (www.sveweb.nl) is a Dutch fondation to promote and train about eco-construction since year 2000 through a demonstration centre of 1 500 m² dedicated to eco-materials, eco-construction and renewable energy. It is very well experienced in communication towards the supply chain and demonstration towards all public. The implication in the CAPEM project will concern the re-evaluation of the eco-materials selected for demonstration in the center since 2000 with the shared methodology and the evolution of the specifications on eco-construction systems resulting from the new expertise, specifically for the renovation of existing construction in Netherlands.
Preparation meeting
WP4 : Design and specification of demonstration buildings ; Implementation of demonstration network

Indicative budget per budget line	
1. Partner Staff	0.00
2. External Experts & Consultants	0.00
3. Travel & Accommodation	0.00
4. Meetings & Seminars	0.00
5. Publicity	0.00
6. Equipment	0.00
7. Investment	0.00
8. Audit costs/First level control	0.00
9. Administration Costs	0.00
Sub-Total Eligible Cost	**0.00**
10. Revenues	0.00
Total Eligible Cost	**0.00**

Partner 9	
Institution (Official name)	Vlaams Insituut voor Bio-Ecologisch bouwen en wonen (VIBE)
Legal Status	Non-Profit Organisation
Typology	Regional development agencies
Homepage	www.vibe.be
Address	Grotesteenweg 91
Postal Code	2600
Town	Antwerpen-Berchem
Please fill in the NUTS region (see Guidance Note 25)	
Country	BE
NUTS 1	BE2
NUTS 2	BE21
NUTS 3	BE211
Phone (office)	32 32181060
Contact person	Peter Thoelen
E-mail	peter.thoelen@vibe.be
Name of the first level controller	
Name of controller's organisation	
ERDF grant rate to be applied	50.00 %
Is the VAT recoverable?	Yes
Contribution	

VIBE is a non profit association on the crossroads between the environment and the building sector and oriented to in the promotion of ecological construction in Flamish region of Belgium. Vibe is recognised by the Flemmish authorities as the major organisation wich has the best expertise in eco-construction. In order to help identify the SME's on the market of eco-construction, VIBE has developped its own label for qualifying SME's, based on different star levels. For eco-materials knowledge and promotion, VIBE is official partner in Belgium with the German eco-label for construction materials "Nature Plus" (www.natureplus.org). VIBE is skilled in methodologies enabling assessment of eco-materials and will bring its own methodology (in link with Nature Plus) to the project as well as the network developed to its current projects such as "Eco-bouwpools" aimed at broadening the bio-ecological building market : VIBE is a very relevant partners for the project.
Preparation meeting
WP1 management
WP1 : Presentation of existing methodologies ; Discussion and design of procedure ; Specifications of computer software ; Selection of 30 reference eco-materials ; Testing and setting of computer software ; Testing and setting of procedure
WP2 : Selection of 150 eco-materials ; Critical collection of requested data
WP3 : Design, specification and implementation of communication strategy (retailers and users)
WP4 : Design and specification of demonstration buildings ; Implementation of demonstration network
WP 5 : Benchmark LC tools, formalize partnerships with existing tools, incorporate 10 CAP'EM datasets in these tools
WP 6 : Participate in the EPD's governance, produce 5 EPD's from CAPEM datas.VIBE will take the lead for this WP

List of sub-partners, if any

ASRO (LCA expert)

CSTC (construction and LCA expert)

KAHO (eco-contruction expert)

VITO (LCA expert)

Indicative budget per budget line	
1. Partner Staff	524,179.53
2. External Experts & Consultants	20,898.16
3. Travel & Accommodation	17,285.79
4. Meetings & Seminars	13,020.24
5. Publicity	218,610.43
6. Equipment	35,171.44
7. Investment	565,180.01
8. Audit costs/First level control	10,339.40
9. Administration Costs	100,957.97
Sub-Total Eligible Cost	**1,505,642.97**
10. Revenues	0.00
Total Eligible Cost	**1,505,642.97**

Origin of the match-funding (indicative)		
Flamish government	Regional Public Authority	376410.75
Federal government	National Public Authority	376410.75

Partner 10

Institution (Official name)	STICHING AGRODOME
Legal Status	Non-Profit Organisation
Typology	Public/private organisations representing enterprises and especially SMEs
Homepage	www.agrodome.nl
Address	Veerstraat 122
Postal Code	NL-6701 DZ
Town	Wageningen
Please fill in the NUTS region (see Guidance Note 25)	
Country	NL
NUTS 1	NL2
NUTS 2	NL22
NUTS 3	NL221
Phone (office)	0031(0)317 42 75 70
Contact person	Fred van der Burgh
E-mail	fred@agrodome.nl
Name of the first level controller	
Name of controller's organisation	
ERDF grant rate to be applied	50.00 %
Is the VAT recoverable?	Yes

Contribution

Agrodôme promotes the use of ecological building materials and provides effective and lasting solutions to environmental problems faced by the construction sector. It offers workshops and advice to (future) homeowners, architects and construction companies who are willing to work with eco-materials and the principles of sustainable construction.
Agrodôme has realized a pilot project in Wageningen which consists of four sustainable build houses. This is not only a positive initiative towards the use of low impact building materials but also to the use of innovative agro based renewable materials. One of the houses is used as an information centre. This demo-house is open to the public on a regular basis to discover eco materials and their applications though the guided tours and it is also used to hold thematic workshops for professionnals.
• WP1: co-developing the CAP'EM assessment methodology, searching for suitable Dutch test products and performing test assessments
WP2: performing assessments on about 30 of the 100 building products for the initial content of the CAP'EM products database, using the CAP'EM assessment methodology
WP3: disseminating the CAP'EM methodology and database among partners within the construction sector and target groups in the building process in the Netherlands, with the intention to encourage the use of the method and of eco-materials in general. Agrodome will also assume the WP3 leadership for the whole project.
WP4: showing the CAP'EM assessed products in exhibitions centres (permanent and mobile), and organizing workshops for Dutch target groups in the building process, in order to spread the acceptance and use of the CAP'EM assessed products
WP 5 : Benchmark LC tools, formalize partnerships with existing tools, incorporate 10 CAP'EM datasets in these tools. Agrodome will take the lead for this WP
WP 6 : Participate in the EPD's governance, produce 5 EPD's from CAPEM datas

Indicative budget per budget line

1. Partner Staff	0.00
2. External Experts & Consultants	566,346.00
3. Travel & Accommodation	15,844.00
4. Meetings & Seminars	24,960.00
5. Publicity	91,960.00
6. Equipment	14,469.00
7. Investment	228,970.00
8. Audit costs/First level control	25,916.00
9. Administration Costs	0.00
Sub-Total Eligible Cost	**968,465.00**
10. Revenues	0.00
Total Eligible Cost	**968,465.00**

Origin of the match-funding (indicative)

Province of Gederland	Local Public Authority	150000
Private funds	Private Enterprise	334232.5

Partner 11

Institution (Official name)	National Green Specifications Ltd
Legal Status	Private Enterprise
Typology	Other (to be specified below)
Homepage	www.greenspec.co.uk & www.greenspecdownload.co.uk
Address	91 Oakleigh Drive, Orton Longueville
Postal Code	PE2 7AR
Town	PETERBOROUGH
Please fill in the NUTS region (see Guidance Note 25)	
Country	UK
NUTS 1	UKH
NUTS 2	UKH1
NUTS 3	UKH11
Phone (office)	0044 1733 238148
Contact person	Brian Murphy
E-mail	BrianSpecMan@aol.com
Name of the first level controller	
Name of controller's organisation	
ERDF grant rate to be applied	50.00 %
Is the VAT recoverable?	Yes
Contribution	

GreenSpec is UK, EU and internationally recognised and well known on the subject of eco-construction, eco-materials and resource efficiency in building.
Brian Murphy, Environmental Specification Architect of GreenSpec has a very good experience in internet dissemination through websites dedicated to eco-construction www.greenspec.co.uk and is now developing website www.greenspecdownload.co.uk which together will become the reference in the anglo-saxon world (45-50,000 visitors per month).
GreenSpec has been a very active sub partner, participating in WP1, WP2, WP3 and WP4. In order to take on a bigger role in the extension and WP 5 and WP6 activities, they will become a full partner of the project. Renuables (one of the few accredited LCA and EPD practitioners in the UK) has also been very involved in WP1 and WP2 as a consultant. In recognition of the added value of WP5 and Renuables' important LCA knowledge, they will become a sub partner of GreenSpec.

WP 5 : Benchmark LC tools, formalize partnerships with existing tools, incorporate 10 CAP'EM datasets in these tools. Agrodome will take the lead for this WP
WP 6 : Participate in the EPD's governance, produce 5 EPD's from CAPEM datas

List of sub-partners, if any

Renuables	www.renuables.uk

Indicative budget per budget line

1. Partner Staff	136,300.00
2. External Experts & Consultants	16,800.00
3. Travel & Accommodation	19,950.00
4. Meetings & Seminars	0.00
5. Publicity	18,456.00
6. Equipment	0.00
7. Investment	0.00
8. Audit costs/First level control	4,000.00
9. Administration Costs	4,157.00
Sub-Total Eligible Cost	**199,663.00**
10. Revenues	0.00
Total Eligible Cost	**199,663.00**

Origin of the match-funding (indicative)

Greenspec	Private Enterprise	99831.5

7. Budget details

Project ERDF Grant Rate	**50.00 %**
Amount of ERDF funding	**4,546,261.85**
Amount of match funding	**4,546,261.85**
INTERREG IVB NWE TOTAL PROJECT BUDGET	**9,092,523.70**

All amounts in EUR

Breakdown per Partner (in EUR)

P	Partner name	Country	TEC	Grant rate	ERDF	Match funding
1	Création et Développement des Eco-Entreprises (CD2E)	FR	2,817,116.99	50.00 %	1,408,558.50	1,408,558.50
2	Association of Community Rail Partnerships (ACORP)	UK	732,714.00	50.00 %	366,357.00	366,357.00
3	Business Support Kent (BSK)	UK	1,363,097.35	50.00 %	681,548.68	681,548.68
4	De Groene Stee (DGS)	NL	124,561.83	50.00 %	62,280.92	62,280.92
5	Cluster Eco-Construction	BE	0.00	50.00 %	0.00	0.00
6	Globe 21	FR	260,405.80	50.00 %	130,202.90	130,202.90
7	Handwerkskammer - Münster (HWK)	DE	1,120,856.76	50.00 %	560,428.38	560,428.38
8	Stichting Viba Expo (SVE)	NL	0.00	50.00 %	0.00	0.00
9	Vlaams Insituut voor Bio-Ecologisch bouwen en wonen (VIBE)	BE	1,505,642.97	50.00 %	752,821.49	752,821.49
10	STICHING AGRODOME	NL	968,465.00	50.00 %	484,232.50	484,232.50
11	National Green Specifications Ltd	UK	199,663.00	50.00 %	99,831.50	99,831.50
Total			**9,092,523.70**	**50.00 %**	**4,546,261.85**	**4,546,261.85**

Breakdown per Budget Line / per Year

Budget Line	2007	2008	2009	2010	2011	2012	2013	2014	2015	Total
1. Partner Staff	0	262,933	633,225	902,590	247,723	247,723	285,830	379,088	0	2,959,113
2. External Experts & Consultants	0	22,300	118,950	89,812	201,521	172,253	223,876	149,673	0	978,385
3. Travel & Accommodation	0	22,481	36,897	48,011	32,097	32,097	25,541	21,507	0	218,631
4. Meetings & Seminars	0	3,000	13,650	20,157	17,582	17,582	19,325	14,846	0	106,143
5. Publicity	0	109,200	276,235	335,263	34,561	103,682	75,270	79,101	0	1,013,312
6. Equipment	0	8,513	5,655	4,670	21,402	21,402	0	0	0	61,642
7. Investment	0	0	568,297	1,205,000	601,699	601,699	300,849	0	0	3,277,544
8. Audit costs/First level control	0	0	7,355	20,817	21,081	21,081	19,899	18,217	0	108,450
9. Administration Costs	0	56,803	100,992	132,249	7,823	7,823	23,446	40,169	0	369,304
Sub-Total Eligible Cost	0	485,229	1,761,256	2,758,569	1,185,490	1,225,342	974,036	702,601	0	9,092,524
10. Revenues										
Total Eligible Cost	0	485,229	1,761,256	2,758,569	1,185,490	1,225,342	974,036	702,601	0	9,092,524

Breakdown per Budget Line / per Work Package

Budget Line	Prep.	Coord.	WP1	WP2	WP3	WP4	WP5	WP6	Total
Percentage of total budget	1.00 %	3.50 %	8.50 %	14.00 %	16.00 %	45.00 %	6.00 %	6.00 %	100.00 %
Total Eligible Cost	90,925	318,238	772,865	1,272,953	1,454,804	4,091,636	545,551	545,551	9,092,524

Contribution in kind	
Is there any contribution in kind included in your project's budget ?	No
In which budget line(s)	
Amount	EUR
Description	

Revenues	
Do you foresee any revenue whithin a period of 5 years after the ending of the project?	No
In which budget line(s)	
Amount	EUR
Description	

Currency exchange rate	
This choice will apply for the duration of the project and for all partners	
Method used:	The month the invoice was paid at partner level

8. Detailed Annual Budget Breakdown

Administration Costs

Description	P.	2008	2009	2010	2011	2012	2013	2014	Total
1. (total)	1	24,897.14	44,265.78	60,265.78	2,508.9	2,508.9	1,254.45		135,701
2. (total)	2	1,970.29	3,503.07	3,503.07	705.03	705.03	352.51		10,739
3. (total)	3	9,668.9	17,190.79	24,190.79	659.81	659.81	329.9		52,700
4. (total)	4	1,683.54	2,993.25	2,993.25	602.42	602.42	301.21		9,176
5. (total)	9	913.68	1,624.48	1,624.48	326.94	326.94	163.47		4,980
	Budget switched from GBC following drop out November 2012								
6. (total)	6	3,111.66	5,532.37	5,789.77	1,010.48	1,010.48	505.24		16,960
7. (total)	7	3,369.61	5,990.98	5,990.98	1,205.74	1,205.74	602.87		18,366
9. (total)	9	11,187.67	19,891.08	27,891.08	803.26	803.26	401.63		60,978
11. (total)	1						5,260	10,519	15,779
	BUDGET EXTENSION								
12. (total)	3						1,089	2,179	3,268
	BUDGET EXTENSION								
13. (total)	7							1,500	1,500
	BUDGET EXTENSION								
14. (total)	9						11,667	23,333	35,000
	BUDGET EXTENSION								
15. (total)	11						1,519	2,638	4,157
	BUDGET EXTENSION								
Total per year		56,803	100,992	132,249	7,823	7,823	23,446	40,169	369,304

Audit costs/First level control

Description	P.	2008	2009	2010	2011	2012	2013	2014	Total
2.	1		2,970.4	5,740.8	5,780.8	5,780.8	2,890.4		23,163
3.	2		476	965	666	666	333		3,106
4.	3		64	4,750	3,474.4	3,474.4	1,737.2		13,500
5.	4		2,250	1,500	280	280	140		4,450
	Budget switched from GBC following drop out November 2012								
7.	6			1,874.52	2,800	2,800	1,400		8,875
8.	7		475	951	1,040	1,040	520		4,026
10.	9		1,119.7	1,119.7	2,240	2,240	1,120		7,839
11.	10			3,916	4,800	4,800	2,400		15,916

12.	1						2,000	4,000	6,000
	BUDGET EXTENSION								
13.	3						525	1,050	1,575
	BUDGET EXTENSION								
14.	6						500	1,500	2,000
	BUDGET EXTENSION								
15.	7							1,500	1,500
	BUDGET EXTENSION								
16.	9						833	1,667	2,500
	BUDGET EXTENSION								
17.	10						3,500	6,500	10,000
	BUDGET EXTENSION								
18.	11						2,000	2,000	4,000
	BUDGET EXTENSION								
Total per year		0	7,355	20,817	21,081	21,081	19,899	18,217	108,450

Equipment

Description	P.	2008	2009	2010	2011	2012	2013	2014	Total
2.	1		1,000	1,000	1,500	1,500			5,000
5.	4		1,206	1,195.88					2,402
	Budget switched from GBC following drop out November 2012								
7.	6			200	2,200	2,200			4,600
10.	9	8,512.5	3,449	205.12	11,502.41	11,502.41			35,171
11.	10			2,069	6,200	6,200			14,469
Total per year		8,513	5,655	4,670	21,402	21,402	0	0	61,642

External Experts & Consultants

Description	P.	2008	2009	2010	2011	2012	2013	2014	Total
2.	1	17,044	71,239.41	36,018.43	5,852.64	5,852.64	2,926.32		138,933
3.	2	5,256	10,000	24,000	7,200	7,200	3,600		57,256
4.	3		20,000		8,000	8,000	4,000		40,000
5.	4		1,360	590	29,268.84				31,219
	Budget switched from GBC following drop out November 2012								
7.	6		4,000	590	2,400	2,400	1,200		10,590
8.	7		9,000		3,600	3,600	1,800		18,000
10.	9		3,350.59	2,547.57	2,000	2,000	1,000		10,898
11.	10			26,066	143,200	143,200	71,600		384,066
12.	1						21,670	43,330	65,000
	BUDGET EXTENSION								
13.	3						1,250	2,505	3,755
	BUDGET EXTENSION								
14.	6						897	2,191	3,088
	BUDGET EXTENSION								
15.	7							6,500	6,500
	BUDGET EXTENSION								
16.	9						3,333	6,667	10,000
	BUDGET EXTENSION								
17.	10						105,000	77,280	182,280
	BUDGET EXTENSION								
18.	11						5,600	11,200	16,800
	BUDGET EXTENSION								
Total per year		22,300	118,950	89,812	201,521	172,253	223,876	149,673	978,385

Investment

Description	P.	2008	2009	2010	2011	2012	2013	2014	Total
1. Computer software	1		3,910.96	38,039.7	58,049.34				100,000
2. Demonstration building (FR)	1		109,291.42	192,921.04	44,285.62	102,334.62	51,167.31		500,000
3. Demonstration building (UK)	2		100,086.2	212,219.8	90,477.6	90,477.6	45,238.8		538,500
4. Demonstration building (UK)	3		98,692.24	209,264.09	89,217.47	89,217.47	44,608.73		531,000
5. Demonstration showroom (BE)	9		9,293.05	19,704.72	8,400.89	8,400.89	4,200.45		50,000
	Budget switched from GBC following drop out November 2012								
6. Demonstration showroom (FR)	6		5,184.34	10,992.71	4,686.62	4,686.62	2,343.31		27,894
7. Demonstration building (DE)	7		146,086.82	309,758.14	132,062.01	132,062.01	66,031.01		786,000
9. Demonstration building (BE)	9		95,751.92	203,029.52	86,559.43	86,559.43	43,279.71		515,180
10. Demonstration building (NL)	10			9,070	87,960	87,960	43,980		228,970
Total per year		0	568,297	1,205,000	601,699	601,699	300,849	0	3,277,544

Meetings & Seminars

Description	P.	2008	2009	2010	2011	2012	2013	2014	Total
2.	1	2,947	7,659.97	7,443.21	3,319.33	3,319.33	1,659.67		26,349
3.	2			600	480	480	240		1,800
4.	3		4,000	8,808.64	4,476.54	4,476.54	2,238.27		24,000
	Budget switched from GBC following drop out November 2012								
8.	7	53	698.27	1,200	3,305.2	3,305.2	1,652.6		10,214
10.	9		1,291.76	2,105.15	721.33	721.33	360.67		5,200
11.	10				5,280	5,280	2,640		13,200
12.	1						667	1,333	2,000
	BUDGET EXTENSION								
13.	7							3,800	3,800
	BUDGET EXTENSION								
14.	9						2,607	5,213	7,820
	BUDGET EXTENSION								
15.	10						7,260	4,500	11,760
	BUDGET EXTENSION								
Total per year		3,000	13,650	20,157	17,582	17,582	19,325	14,846	106,143

Partner Staff

Description	P.	2008	2009	2010	2011	2012	2013	2014	Total
2.	1	112,501.45	270,938.45	386,191.88	105,993.45	105,993.45	52,996.73		1,034,615
3.	2	9,635.88	23,206.19	33,077.78	9,078.46	9,078.46	4,539.23		88,616
4.	3	63,322.97	152,501.39	217,373.35	59,659.86	59,659.86	29,829.93		582,347
5.	4	7,958.57	19,166.71	27,319.96	7,498.18	7,498.18	3,749.09		73,191
6.	9	3,162.84	7,617.11	10,857.32	2,979.88	2,979.88	1,489.94		29,087
	Budget switched from GBC following drop out November 2012								
7.	6	13,140.6	31,646.65	45,108.69	12,380.44	12,380.44	6,190.22		120,847
8.	7	19,748.96	47,561.63	67,793.68	18,606.52	18,606.52	9,303.26		181,621
10.	9	33,462.06	80,587.03	114,867.62	31,526.34	31,526.34	15,763.17		307,733
12.	1						52,598	105,196	157,794
13.	3						5,467	10,935	16,402
	BUDGET EXTENSION								
14.	6						3,000	9,000	12,000
	BUDGET EXTENSION								
15.	7							31,200	31,200
	BUDGET EXTENSION								

16.	9						62,453	124,907	187,360
	BUDGET EXTENSION								
17.	11						38,450	97,850	136,300
	BUDGET EXTENSION								
Total per year		262,933	633,225	902,590	247,723	247,723	285,830	379,088	2,959,113

Publicity

Description	P.	2008	2009	2010	2011	2012	2013	2014	Total
2.	1	73,953.54	227,906.18	210,242.54	9,347.81	28,043.44	9,347.81		558,841
3.	2			15,000	400	1,200	400		17,000
4.	3		13,000	12,750	2,000	6,000	2,000		35,750
	Budget switched from GBC following drop out November 2012								
7.	6		800	10,000	800	2,400	800		14,800
8.	7			10,500	2,400	7,200	2,400		22,500
10.	9	35,246.46	34,528.72	74,770.44	9,812.96	29,438.89	9,812.96		193,610
11.	10			2,000	9,800	29,400	9,800		51,000
12.	3						8,000	17,000	25,000
	BUDGET EXTENSION								
13.	6						1,974	6,420	8,394
	BUDGET EXTENSION								
14.	7							2,000	2,000
	BUDGET EXTENSION								
15.	9						8,333	16,667	25,000
	BUDGET EXTENSION								
16.	10						16,250	24,710	40,960
	BUDGET EXTENSION								
17.	11						6,152	12,304	18,456
	BUDGET EXTENSION								
Total per year		109,200	276,235	335,263	34,561	103,682	75,270	79,101	1,013,312

Travel & Accommodation

Description	P.	2008	2009	2010	2011	2012	2013	2014	Total
2.	1	9,272.69	11,668.46	12,000	4,800	4,800	2,400		44,941
3.	2	2,700	2,997	5,000	2,000	2,000	1,000		15,697
4.	3	4,000	14,105	8,000	3,078	3,078	1,539		33,800
5.	4		1,260.3	2,864.03					4,124
6.	9				1,520	1,520	760		3,800
	Budget switched from GBC following drop out November 2012								
7.	6	2,463.08	1,394.93	8,963.71	7,014.77	7,014.77	3,507.38		30,359
8.	7	4,045.23	2,625.79	9,748.99	6,164	6,164	3,082		31,830
10.	9		2,845.52	790.27	1,440	1,440	720		7,236
11.	10			644	6,080	6,080	3,040		15,844
12.	1						1,000	2,000	3,000
	BUDGET EXTENSION								
13.	7							1,800	1,800
	BUDGET EXTENSION								
14.	9						2,083	4,167	6,250
	BUDGET EXTENSION								
15.	11						6,410	13,540	19,950
	BUDGET EXTENSION								
Total per year		22,481	36,897	48,011	32,097	32,097	25,541	21,507	218,631

9. Monitoring success

General indicators for all projects

Increasing awareness Indicators (impact)	Target	Description
N° of people reached by activities focusing on involving local communities	1000	Meetings of architects, craftmen, manufacturers, retailers
N° of people reached by activities focusing on changing policy	600	
N° of people reached by activities focusing on maintaining or increasing funding	200	
N° of people reached by transnational events (participants)	1700	3 trade fairs (200), launch and closing events (150), 8 inaugurations (100)
N° of people reached by national events (participants)	6000	40 trade fairs of 150 participants
N° of people reached by regional/local events (participants)	1800	70 meetings of 25 participants
N° of people participating in study visits / exchange activities	500	20 meetings or trips of 15 people
N° of people reached by website (unique visitors)	300000	Unique visit per day
N° of copies printed of publications targeted to the general public	0	
N° of copies printed of publications targeted to specialist audiences	40000	National conferences
N° of incidences of TV or radio coverage (count every incidence, incl repeated)	20	Regional coverage
N° of people potentially reached by Media coverage (readership and viewership measures: press coverage / TV or Radio appearances)	6000000	Press and radio
N° of press articles which mention the Project (all included)	150	
N° of press articles which give credit for the Project to the European Union (within total number)	150	
N° of press articles mentioning Project financing by the INTERREG IVB North West Europe Programme (within total number)	150	

Increasing awareness Indicators (tools)	Target	Description
N° of activities focusing on involving local communities	40	
N° of activities focusing on changing policy	30	
N° of activities focusing on maintaining or increasing funding	10	
N° of transnational events organised	13	Cf. previous sheet
N° of national events organised	40	Cf. previous sheet
N° of regional/local events organised	70	Cf. previous sheet
N° of full partnership meetings	10	Cf. previous sheet
N° of commemorative plaques displaying EU participation	6	Demonstration building sets of items
N° of study visits / exchanges organised	10	
N° of awareness raising campaigns launched	4	Target audiences (manufacturers, retailers, users, advisers)
Amount of additional funding leveraged by Project beyond initial Total Budget	5000000	
N° of best practice manuals and/or guidelines published	70	
N° of academic articles published based on the findings of the Project or thanks to the Project	1	
N° of publications targeted to the general public	0	
N° of publications targeted to specialist audiences	30	
N° of press releases sent to regional/national/EU press	50	
N° of multimedia tools produced (eg Videos)	5	
N° of visual identities produced	1	
N° of project documents translated (only count a document once)	10	
N° of networks supported/promoted involving governmental actors	6	
N° of networks supported/promoted involving non-public sector organisations	18	
N° of transnational meetings organised at governmental level	5	
N° of transnational training/education courses developed	40	

Priority 1: Developing the NWE knowledge-based economy by capitalising on our capacity for innovation

Project results	Target	Description
N° of new marketable products, processes and services produced	100	Evaluated eco-materials
N° of enterprises created	21	Target audiences
N° of jobs created (breakdown per gender when possible)	84	4 employments per created enterprise
N° of new growth clusters or SME network created	5	
N° of existing growth clusters or SME networks strengthened	20	
N° of strategies applied to promote innovation	4	Tool / training / intelligence / communication
N° of joint strategies implemented to promote transfer of knowledge	4	Target audiences (manufacturers, retailers, users, advisers)
N° of institutions and organizations with improved innovation capacity	23	Sector organizations and institutions
Project outputs	**Target**	**Description**
N° of initiatives to promote transfer of knowledge	25	
N° of initiatives to develop new products, processes and services	4	Call for projects
N° of strategies developed to promote innovation	4	
N° of joint actions developed and applied to enhance the endogenous potential of NWE cities and regions	13	Transnational events

Priority 2: Sustainable management of natural resources and of natural and technological risks		
Project results	**Target**	**Description**
Project outputs	**Target**	**Description**
Priority 3: Improving connectivity in NWE by promoting intelligent and sustainable transport and ICT solutions		
Project results	**Target**	**Description**
Project outputs	**Target**	**Description**
Priority 4: Promoting strong and prosperous communities at transnational level		
Project results	**Target**	**Description**
Project outputs	**Target**	**Description**