

## Initiating Training for a “New Way of Managing the Whole Life of Sustainable Construction”

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### Construction in the EU (Motivation for the Project)

Europe's construction sector is aware of the need to minimise its impact on sustainability: environmentally, socially and economically.

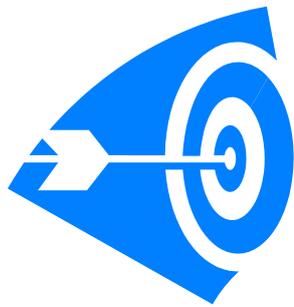
There is growing recognition that there is a lack of knowledge in management of sustainable construction throughout the life cycle of a constructed facility and in a holistic approach.

been previously addressed in detail. This includes procurement, innovation, assessment, stakeholder engagement and more.

The project highlights the importance of the need to shift the mind-set to the management of sustainable construction and transfer knowledge to develop fully life-cycle approaches in delivering sustainability issues in a simple and clearly defined manner.



Whilst there has been a focus on training in technology and technical issues pertaining to sustainability, this project addresses the need to enhance vocational skills in whole life management issues in sustainable construction which have not



### Project Objective

The aim of this transfer of innovation project is to provide training in managing whole life sustainability of the built environment to allow participants to achieve a more sustainable construction industry. The project will offer a) a train the trainer service to ensure sustainability of the project, and b) to train the members of a construction team including clients, designers, contractors, operators and other professionals to undertake the effective management of their projects to meet the challenges of a sustainable built environment.

### Target Audience

The training is aimed at those who would like to understand the principles of sustainability assessment. It will be of particular interest to those involved in designing, constructing, operating and maintaining projects within client, design and contracting organisations and for materials manufacturers, suppliers, clients, sustainability assessors and academics.

**Disclaimer:** This project has been funded with support from the European Commission. This publication reflects the views only of the author, and the Commission cannot be held responsible for any use which may be made of the information contained therein.

## Meet our Team (Project Consortium)

The consortium brings together six partners from six countries across Europe; the UK, Croatia, Cyprus, Spain, Romania, and Italy.

The project is being led by Whole Life Consultants Limited in the UK. WLC Ltd are taking the lead on this project as the key knowledge associated with the project originates from them and they are therefore best placed to lead the transfer. WLC Ltd will function primarily on a transfer of innovation function and carry out the project management and the evaluation and monitoring activities.

The five importers of innovation are a combination of universities, training organisations and private companies who have a strong interest in developing vocational skills in their own countries for managing sustainable construction. The work packages have been distributed with each partner leading at least one package; this will ensure effective cooperation and a valuable sharing of the work-load.



WHOLE LIFE CONSULTANTS LTD

**Whole Life Consultants Ltd** (WLC Ltd) is a spin out company of the University of Dundee, founded in 2004 to bridge the gap between academia and industry and to transfer research outcomes to professionals and practices. WLC Ltd are the coordinators of this project.

(For more Visit [www.wlcuk.com](http://www.wlcuk.com))



**The PPP Centar** is the leading organisation for delivering consultancy services for preparing planning, and realising projects by Public Private Partnerships (PPP) in Croatia and the Region. PPP Centar is educating the Public bodies in Croatia and Serbia, and those who manage the construction and operation of PPP projects.

(For more Visit [www.pppcentar.com](http://www.pppcentar.com))



**Frederick University** (FU) is a leading institution of the highest education sector in Cyprus. Key aims of FU are to advance scientific research in Cyprus, support students in the completion of their degree projects and develop close contacts with the industry.

(For more Visit [www.frederick.ac.cy](http://www.frederick.ac.cy))



**Cultural Centre and Educational Intervention DOCTUM** is a private, non-profit organization that seeks to protect, conserve, restore, manage, promote and enhance the culture and tangible and intangible heritage of peoples, through research and training.

(For more Visit [www.doctum.es](http://www.doctum.es))



The **Romanian Society for Lifelong Learning** seeks to improve and develop the teaching/learning methods and contexts, in order to enhance the quality of the learning process; and allow every citizen easy access to quality lifelong education.

(For more Visit [www.srep.ro](http://www.srep.ro))



**FORSAS** is a company involved in 1) professional training through the provision of formative services, needs analysis and the management of training projects for SMEs, 2) supporting the management, internationalisation and enhancement of public relations for enterprises, and 3) in providing support to public and private institutions for the participation to local, national and European projects.

(For more Visit [www.forsas.it](http://www.forsas.it))

## The Training Programme

### Introduction

Sustainability has been growing in importance and volume of materials over the last two decades.

However, the focus of the materials has tended to be towards two things. Firstly, there has been a focus on the environmental aspects of sustainability (e.g. BREEAM, LEED). This focus has been to the detriment of the other two dimensions – the social and the economic. Secondly, there has been a focus on the creation of materials relating to the technological advances in sustainability.

Dealing with sustainability as purely an environmen-

tal problem can be quite limiting. This project seeks to offer a whole life, holistic view of sustainability. In addition, the project will develop materials for the first time which deal with the management of sustainable construction projects. Trainees will be provided with the skills that will enable them to deliver sustainable construction projects.

### The Pedagogical Approach

The approach used in this project will be initially to train trainers to be able to deliver ongoing training within their native countries. This will be followed up by ongoing dialogue

between trainees and trainers on an online discussion forum. Monitoring of comments and contribution to the dialogue will be undertaken by the exporter of the innovation.

Materials will be tested in a range of ways. During the train the trainer sessions there will be the opportunity for the trainers to run mock teaching sessions for harmonizing the approach and for checking quality and suitability. The material will be delivered to a pilot cohort of trainees in each country.

### Delivery Method

Training will be provided in a blended approach which includes classroom teach-

ing (short training courses and workshops), distance learning and an online forum for debate and discussion. The approach used in this project will be initially to train trainers in the importing countries to be able to deliver on-going training within their native countries. This will be followed up by on-going dialogue between trainees and trainers on the online discussion forum.

**Languages of Instruction:** English, Croatian, Greek, Spanish, Romanian, and Italian

(the use of English will be encouraged for use in the Discussion Forum)

### Training Modules

#### 1. Sustainable development and construction

Introduction to the principles of sustainability and the construction industry challenges. Drivers, initiatives, policies and impacts of sustainable construction, as well as environmental, social and economic benefits. The role of the construction industry in helping meet the EU Sustainable Development targets

#### 2. Integrated sustainability assessment

Introduction to whole life thinking . Sustainability assessment management protocol throughout the life cycle. Sustainable construction indicators. Introduction to sustainability methods and tools (e.g. LCA, EIA, WLC, BREEAM). Stakeholder values and engagements. Introduction to EU- CEN/TC 350 “sustainability of construction works”

#### 3. Sustainable procurement

Introduction to the procurement process. Drivers for change. The role of procurement in sustainable construction outcome. Embedding sustainability performance/targets into the procurement process. Achieving value for money through sustainable procurement. Impact of sustainable procurement on construction supply chain. EU initiatives of sustainable procurement.

## Web Resources

- A project **website** was created and is available under the following URL  
<http://www.whole-life-construction.eu>

The website aims to provide access to news, updates and current events to the development of the WhLMSC project material and activities, and will thus be updated regularly during the project duration.

- A restricted (password-protected) site that gives full access to instruction material developed during the project has been created. It is meant to primarily target trainees on the project. The URL link for our **e-learning (Moodle) platform** is  
<http://whlmsc.wlcuk.com/>

- Like us on **Facebook**
- Follow us on **Twitter**
- Connect with us on **LinkedIn**



## Project Kick-off Meeting

November 22, 2012 - Dundee, Scotland

The official kick-off for the project was held on November 22, 2012 in the Steeple Center in Dundee, Scotland.



The meeting was attended by the following representatives of the project partner organizations:

Whole Life Consultants Ltd

Dr Malcolm Horner  
 Dr Mohamed El-Haram  
 Dr Doug Forbes  
 Ms Lyndsay Kenny

PPP Centar d.o.o.

Dr Tereza Marenjak  
 Dr Sasa Marenjak

Frederick University

Dr Christos Anastasiou

DOCTUM

Ms Laura Lopez

Societatea Romanapentru Educatie Permanenta

Ms Raluca Icleanu

FOR SAS di Paolo Tubino & C.

Mr Daniele Garulla

After formal introductions were made, the meeting focused on the following items:

- Finalization of paperwork relating to the Contracts and Consortium Agreements
- A Project overview that reminder everyone of our objectives and plan of action
- Immediate issues relating to Branding for the project and Dissemination activities
- Common practices for uniformity in Record keeping were dis-

cussed and specific project forms were introduced

- Subsequent teleconferences and face-to-face meetings were agreed upon, including the Train-the-Trainer meetings.

Despite the fact that the team was greeted by the wonderful Scottish weather that is normally witnessed in November, the meeting and social activities were most beneficial in building the strong personal relations needed for the success of any such project.

A working lunch was much reinforced by a social dinner in a private room at the Apex City Quay Hotel & Spa organized by the hosts of the meeting.



## Upcoming Events

The following Train-the-Trainer events have been scheduled to take place:

- Date: March 5 - 8, 2013  
 Location: Zagreb, Croatia
- Date: April 17 - 19, 2013  
 Location: Zagreb, Croatia

## Whole Life Management of Sustainable Construction

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Lifelong Learning Programme  
LEONARDO DA VINCI Transfer of Innovation  
"Whole Life Management of Sustainable Construction"

Visit us on the web!  
[www.whole-life-construction.eu](http://www.whole-life-construction.eu)

## Spotlight on:

**Whole Life Consultants Limited (Project Leader)** is a spin out company of the University of Dundee. Founded in 2004, originally to commercialise the results of a major EPSRC funded programme "A Generic Approach to Whole Life Costing", its activities have subsequently expanded to encompass the commercialisation of all the intellectual property and expertise developed by the Construction Management Research Unit (CMRU). The CMRU is part of the Department of Civil Engineering which achieved the sixth highest score in the UK in the latest Research Assessment Exercise. Supported by the research carried out by the CMRU, the company is ideally positioned to realise the synergies between academic research and practising professionals. The company's multi-disciplinary staff, of whom most are qualified to PhD standard, include Civil, Mechanical and Environmental Engineers, Social, Natural and Computer Scientists.

WLC Ltd have been researching construction sustainability since 2004 and have provided consultancy and client advice in BREEAM and CEEQUAL. The company have been involved with running training workshops in sustainability indicators, integrated sustainability assessment, while life costing and productivity improvement. We have trained around 500 people in the last four years in traditional face-to-face train-

## Project Fast Facts

**Funded by:** EU LLP Programme  
(UK National Agency for the Leonardo, Grundtvig & Transversal Programmes, ECORYS UK Ltd.)

**Duration:** 24 months

**Start Date:** October 2012

**Total Cost:** € 399,788.00

**National Agency Contribution:** € 299,841.00

**Grant Agreement No.** UK/12/LLP-LdV/TOI-501

**Project No.** 2012-1-GB2-LEO05-07807

**Leading Organization:** Whole Life Consultants Ltd

**Lead Contact Person:** Dr Mohamed El-Haram



**Whole Life**  
MANAGEMENT OF  
SUSTAINABLE CONSTRUCTION

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