

### **PROJECT H-KNOW**

### Digital Platforms to Support SMEs in Building Renovation

Complete process of rehabilitation Historical house in Porto Center

Palace of Count Bolhão

International Project Week Seinajoki 14 February 2012

#### **BC3 demonstrator - VortalHeadQuarters in Porto**

#### Main Objective:

Present the procedures that can be taken on the H-Know project to develop the rehabilitation of a historic building in Porto for the headquarters of Vortal SA, demonstrating all phases of the procedure from the competition, the contract, the relationship with subcontractors and specialists and technical support for educational institutions and development.

#### **Project: The Palace of Count Bolhão**

The Palace of Count Bolhão, classified by the IGESPAR, is considered one of the most remarkable buildings of the nineteenth century civil architecture of Porto.

The purpose of this project is the completion of the work of recovery and redevelopment of the Palace of Count Bolhão in Vortal headquarters, respecting the historical character and special architectural of the space.

Used in this work are traditional construction techniques in conjunction with the most modern methods of recovery and intervention applied in heritage buildings.

Will be involved in this work several Portuguese and foreign experts in various aspects.

#### IMAGES OF THE BUILDING





#### **Participants and Roles**

Vortal, Comércio Electrónico Consultadoria e Multimédia, S.A. is a very important company in the Information and Communication Technology and is **owner of the contract**.

FEUP - Faculty of Engineer from Porto University is the responsible for the verification of standards and quality

INESC Porto - Instituto de Engenharia de Sistemas e Computadores do Porto is a research and technological development that will be responsible for the treatment of the information.

José Gigante, Architect, Professor in FAUP (Faculty of Architecture, University of Porto) is the architectural design

SIKA - Manufacturer of speciality chemicals for construction.

3M2P, Construção e Reabilitação de Edificios, Lda, company with expertise in rehabilitation of buildings who have been awarded this contract – **Main Contractor** 

STB - Sociedade Técnica de Tratamento de Aços e Betões, Lda. is a Portuguese partner that is responsibilie for defects analyses and treating specific construction pathologies.

TEICOS Costruzioni s.r.l. is an Italian company that is subcontract for the application of specific old buildings tecnhics restoration.

Teusa - Tecpropasa Euskadi S. A. is a Spanish company that is subcontract for the application of specific old buildings tecnhics restoration.

Teitje - is a German company that will be responsible for the application of the new processes and materials for energy-efficient restoration.

Andre Cottenceau is a French company that will be responsible for the stone works.

### **BC3 - Main Phase's**

# The implementation of this objective will be achieved through the following phases:

- Phase 1 Vortal launches a business opportunity through a collaborative space and invite companies to be featured.
- Phase 2. From the acknowledgement of the existence of a business opportunity to the proposal phase
- Phase 3. The work is delivered to 3M2P and passes to a collaborative space where execution simulates the various stages of the contract.
- Phase 4.Follow-up.
- Phase 5. Registration and distribution of information.

## Phase 1. Vortal launches a business opportunity through a collaborative space and invite companies to be featured.



Advanced Infrastructure for Knowledge Based Services for Old Buildings Restoring

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Collaborative Spaces	View Contents Fo	rums Images	Events Edit	Meetings	Planner Rep	orts	Statistics	Clc 2011-11-10 01:4
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<ul> <li>Collaborative e-Learning Courses</li> </ul>			* Name		* Modifi	4	4 Owner	2011-11-10 01: Levantamento Inicial 2011-11- 15:
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<ul> <li>Search collaborative spaces</li> <li>Search entities</li> </ul>				5.pdf	02/12/11 11:54	89 KB	3m2p	tender:

completion of the project.

### Phase 1. Vortal launches a business opportunity through a collaborative space and invite companies to be featured.



#### Is created a Forum to give clarifications to the submission of proposals

### Phase 1. Vortal launches a business opportunity through a collaborative space and invite companies to be featured.



Vortal places on the platform the planning for the proposal phase

Phase 2 - From the acknowledgement of the existence of a business opportunity to the proposal phase

- Search and selection of VortalRehab Headquarters collaborative space
- Permission to join the collaborative space
- Creation of a new collaborative space by cloning
- Content management and selection regarding STB specific needs
- New members were invited to join STB collaborite space in order to give some technical support in particular issues (STB staff, usual suppliers,...)
- Technical / commercial discussion using H-KNOW forum and meeting tools
- Proposal sending by e-mail or using H-KNOW meeting tool

## Phase 2 - From the acknowledgement of the existence of a business opportunity to the proposal phase

João Grașa	Home » Groups » BC3 - VortalRehab HeadQuarters - Palacio do Conde do Bolhão - STB PROPOSAL » Forums » General discussion	Decent Activity
My H-Know     Collaborative Spaces     Entities     Collaborative e-Learning     Courses	Simple. Works! General discussion Simple. Worka! technical issues	HELIFIX Commercial presentation 2012-01-12 19:07 Helifix solutions 2012-01-12 19:03 Worksibe Images 2012-01-12 18:32
BC1 Window Teel	Rehabknow & Son <sub>e</sub> Lt. (	Simple. Works! 2012-01-12 16:31 Rehabknow & Son, Lt. 2012-01-12
o Log out	Groups: BC3 - VortalRehab HeadQuarters - Palacio do Conde do Bolhão - STB PROPOSAL Add new commont Printer-friendly version Send to friend	18:29
Saures	Masonry reinforcement	8C3 - VortsiRehab ReadQuarters - Palacto de Consta da Esta La Este Processo
<ul> <li>Search content</li> </ul>	Submitted by Diogo Coutinho on Thu; 2012-01-12 19:D2.	Enter keywords:
<ul> <li>Search partners</li> <li>Search collaborative spaces</li> <li>Search entities</li> <li>Search Courses</li> <li>Search Courses</li> <li>Search In Ontology</li> </ul>	simple.works   Hi! Simple. Works! can provide cost effective solutions for masonry reinforcement. Please look on concent page.	Search is automatically restricted to posts in this Collaborative Space.
	Technical information	Languages
Personal News	Submitted by João Graça on Fri, 2012-01-13 17:30.	
All -	Hello Diogo, could you send us more technical info regarding crack stitching solutions?	English
	Crack stitching new Submitted by Diogo Coutinho on Fri, 2012-01-13 17:14.	
	simple.works ! Helo João, You can find more information in www.helifik.co.uk reply	

#### Technical discussion using collaborative space forum.

# Phase 3. The work is delivered to 3M2P and passes to a collaborative space where execution simulates the various stages of the contract.

3M2P open a new collaborative space to develop the construction phase.

These new colaborative space is a clone from the one that has been created by Vortal initially to accommodate the documents in the tender phase. In this way there is no need to reenter all documents



#### Now is time to invite all partners and subcontactors to join the collaborative space

	Home » Groups » BC3 - VortalRehab HeadQuarters - Contract Execution	
<ul> <li>Meu H-Know</li> <li>Espaços Colaborativos</li> </ul>	Send invitation Email addresses or usernames:	
<ul> <li>Entities</li> <li>Cursos de e-Learning colaborativos</li> <li>BC1 Window Tool</li> <li>Los out</li> </ul>	bpuga@3m2p.pt - Engineer csilva@3m2p.pt - logistic jfonseca@3m2p.pt - woodwork eveloso@3m2p - equipment	
• Log out		43
	Enter up to 10 email addresses or usernames. Separate multiple addresses by commas or new lines. Each person will receive an invitation message from you.	
	Personal message:	
<ul> <li>Search content</li> <li>Search partners</li> </ul>	It was awarded to our company carrying out the work of rehabilitation of the palace of Count Bolhão. All information design and implementation has already been introduced on the <u>platform</u> .	
	Will briefly marking a coordination meeting.	
• Search collaborative spaces		
<ul> <li>Search entities</li> </ul>		
<ul> <li>Search Courses</li> </ul>		
<ul> <li>Search in Ontology</li> </ul>	Optional. Enter a message which will become part of the invitation email.	

Send invitation

3m2p	Home » Groups » BC3 - VortalRehab HeadQuarters - Contract Execution			
▶ Meu H-Know	Send invitation			
Espaços Colaborativos	Email addresses or usernames:			
<ul> <li>Entities</li> <li>Cursos de e-Learning colaborativos</li> <li>BC1 Window Tool</li> </ul>	Ventimola GmbH & Co. Dämmtechnik KG (t.feischen@ventimola.de) Teusa S.A.(lzarraoa@teusa.com) TEICOS Costruzioni s.r.l. (g.hugony@teicosgroup.com) SARL (cottenceau-tailledepierre@wanadoo.fr) STB Sociedade Técnica de Tratamento de Aços e Betões, Lda. (jgraca@stb.pt)			
<ul> <li>Log out</li> </ul>				
	Enter up to 10 email addresses or usernames. Separate multiple addresses by commas or new lines. Each person will receive an invitation message from you.			
Search	Personal message:			
<ul> <li>Search content</li> <li>Search partners</li> <li>Search collaborative spaces</li> </ul>	It was awarded to our company carrying out the work of rehabilitation of the palace of Count Bolhão. All information design and implementation has already been introduced on the platform. Will briefly marking a coordination meeting.			
<ul> <li>Search entities</li> </ul>				
<ul> <li>Search Courses</li> </ul>				

Send invitation

#### Is create several discussion forums to interchange with various partners.



## **TEL APPLICATION**

**Guide for using TEL** 

**WiHKi** 

**Modular case** 

**Innovation material or technique** 

**Complete case** 

## **TEL APPLICATION**

**Modular** 

**Helifix system for masonry** 

□Five modules (system description, documentation, techniques, specifications and case studies)

Registration, calendar, learning objectives, tutor, documents, links



Phase 5. Registration and distribution of information.

Advantages in the organization through collaborative spaces.



# H-KNOW BC3

BC3 partners can decide which content created in the collaborative spaces can be shared with the community colspace type:project Vortal Headquarters in Porto

	Content	Permission
	Blog	Private
	Page 1	Private
_	Document 4	Public



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With the selective permission management of the colSpaces content it is possible to collect, organise and present dynamically the information and knowledge shared in all the collaborative places of the platform

h-know community public information porto







NMP-2007-214567

colspace