



PROJECT H-KNOW

Business Case 3 – Demonstrator

**Completed process of rehabilitation
Historical house in Porto Center**

Palace of Count Bolhão

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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 Edifícios, 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 responsible 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 technicals restoration.

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

The screenshot displays the Vortal 2.1 web interface. At the top left is the logo 'KNOW Version 2.1' with the tagline 'Advanced Infrastructure for Knowledge Based Services for Old Buildings Restoring'. A navigation bar includes 'Home', 'Inbox', and 'My H-Know'. The main content area is titled 'Home » BC3 - VortalRehab HeadQuarters - Call for tenders'. Below this, there's a sub-header 'BC3 - VortalRehab HeadQuarters - Call for tenders' and a set of tabs: 'View', 'Contents', 'Forums', 'Images', 'Events', 'Edit', 'Meetings', 'Planner', 'Reports', 'Statistics', and 'Cl'. The central part of the screen shows a file browser for the directory '/reconverso_do_palacio_do_conde_do_bolho / Drawings'. A table lists several PDF files:

Name	Modified	Size	Owner
101_ACE_PE_01.pdf	02/12/11 11:54	151 KB	3m2p
101_ACE_PE_02.pdf	02/12/11 11:54	113 KB	3m2p
101_ACE_PE_03.pdf	02/12/11 11:54	109 KB	3m2p
101_ACE_PE_04.pdf	02/12/11 11:54	136 KB	3m2p
101_ACE_PE_05.pdf	02/12/11 11:54	89 KB	3m2p
101_ACE_PE_06.pdf	02/12/11 11:54	154 KB	3m2p
101_ACE_PE_07.pdf	02/12/11 11:54	76 KB	3m2p

On the left side, there are two panels: '3m2p' with a menu including 'My H-Know', 'Collaborative Spaces', 'Entities', 'Collaborative e-Learning Courses', 'BC1 Window Tool', and 'Log out'; and 'Search' with options like 'Search content', 'Search partners', 'Search collaborative spaces', 'Search entities', 'Search Courses', and 'Search in Ontology'. On the right side, there's a 'Recent Activity' panel listing events such as 'Carpintaria (interno 3M2P)' and 'BC3 Presentation in Paris meeting'. Below that is a search box with the text 'Enter keywords:' and a note that 'Search is automatically restricted to...'. A red text overlay at the bottom of the screenshot reads: 'José Gigante, places in the collaborative space all the drawings and specifications for completion of the project.'

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

The screenshot displays a web portal interface for creating a forum topic. The main content area is titled "Create Forum topic" and includes a "Subject: *" field with the text "BC3 - Clarifications to the submission of proposals". Below this is an "Image:" field with an "Upload" button and a "Procurar..." button. The interface also shows a "Body: *" field with a rich text editor and a "Show summary in full view" checkbox. The sidebar on the left contains navigation options like "My H-Know", "Collaborative Spaces", and "Entities". The right sidebar shows "Recent Activity" with a list of events and dates.

Home » Groups » BC3 - VortalRehab HeadQuarters - Call for tenders

Create Forum topic

Subject: *

BC3 - Clarifications to the submission of proposals

Image:

Upload

Procurar...

Maximum Filesize: 1 MB

Allowed Extensions: png gif jpg jpeg

Body: * Show summary in full view

Fonte

Formato Normal

B I U abc x, x²

Recent Activity

Carpintaria (interno 3M2P) 2011-11-10 01:44

BC3 Presentation in Paris meeting 2011-11-10 01:41

Levantamento Inicial 2011-11-09 15:56

Logistica (interno 3M2P) 2011-10-26 12:54

Gestão da Dono de obra. (DO+Proj*Empreiteiro Geral+Fiscalização) 2011-10-26 12:31

BC3 - VortalRehab HeadQuarters - Call for tenders

Enter keywords:

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

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 collaborative 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

The screenshot displays a forum interface for a collaborative space. The main content area shows a thread titled "Simple.Works!" with a "General discussion" category. Below this, there are two posts:

- Masonry reinforcement**: Submitted by Diogo Coutinho on Thu, 2012-01-12 19:02. The post content is: "simpleworks! Hi! Simple.Works! can provide cost effective solutions for masonry reinforcement. Please look on content page." A "reply" link is visible to the right.
- Technical information**: Submitted by João Graça on Fri, 2012-01-13 17:30. The post content is: "Hello Diogo, could you send us more technical info regarding crack stitching solutions?" A "reply" link is visible to the right.
- Crack stitching**: Submitted by Diogo Coutinho on Fri, 2012-01-13 17:44. The post content is: "simpleworks! Hello João, You can find more information in www.helifix.co.uk" A "reply" link is visible to the right.

The interface includes several sidebars:

- João Graça**: A sidebar with navigation links such as "My H-Know", "Collaborative Spaces", "Entities", "Collaborative Learning Courses", "BC1 Window Tool", and "Log out".
- Search**: A sidebar with search options like "Search content", "Search partners", "Search collaborative spaces", "Search entities", "Search Courses", and "Search In Ontology".
- Personal News**: A sidebar with a dropdown menu set to "All" and a text input field containing "<add new feed>".
- Recent Activity**: A sidebar listing recent posts with titles like "HELIFIX Commercial presentation" and "Helifix solutions" along with their timestamps.
- BC3 - VortalRehab HeadQuarters - Palacio de**: A sidebar with a search box labeled "Enter keywords:" and a "Search" button. Below it, it says "Search is automatically restricted to posts in this Collaborative Space." and a "Languages" dropdown menu set to "English".

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 collaborative 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

KNOW Version 2.1
Advanced Infrastructure for Knowledge Based Services for Old Buildings Restoring

Home | Inbox | My H-Know

Home » BC3 - VortalRehab HeadQuarters - Call for tenders

Clone of BC3 - VortalRehab HeadQuarters - Call for tenders

View | Contents | Forums | Images | Events | Edit | Meetings | Planner | Reports | Statistics | **Clone** | Documents

This clone will not be saved to the database until you submit.

Title: *
Clone of BC3 - VortalRehab HeadQuarters - Call for tenders

Group language:
 Language neutral
 English
 French
 German
 Italian
 Portuguese, Portugal
 Spanish

Selecting a different locale will change the interface language for all group pages and emails. Users who have chosen a preferred

Collaborative Space

Type of Collaborative Space:
 N/A
 Project
 Business Opportunity
 Problem Solving
 Proposal

Select the type of Collaborative space:
Project : Space for developing a joint construction project.
Business Opportunity Space: Space for tracking a Business Opportunity.
Problem Solving In solving a problem by

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

3m2p

- ▶ Meu H-Know
- ▶ Espaços Colaborativos
- ▶ Entities
- Cursos de e-Learning colaborativos
- BC1 Window Tool
- Log out

Search

- Search content
- Search partners
- Search collaborative spaces
- Search entities
- Search Courses
- Search in Ontology

Home » Groups » BC3 - VortalRehab HeadQuarters - Contract Execution

Send invitation

Email addresses or usernames:

bpuga@3m2p.pt - Engineer
csilva@3m2p.pt - logistic
jfonseca@3m2p.pt - woodwork
eveloso@3m2p.pt - equipment

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:

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.

Optional. Enter a message which will become part of the invitation email.

Send invitation

3m2p

- Meu H-Know
- Espaços Colaborativos
- Entities
- Cursos de e-Learning colaborativos
- BC1 Window Tool
- Log out

Search

- Search content
- Search partners
- Search collaborative spaces
- Search entities
- Search Courses
- Search in Ontology

Home » Groups » BC3 - VortalRehab HeadQuarters - Contract Execution

Send invitation

Email addresses or usernames:

```
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 (cotenceau-tailedepierre@wanadoo.fr)
STB Sociedade Técnica de Tratamento de Aços e Betões, Lda. (jgraca@stb.pt)
```

International Partners

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:

```
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.
```

Optional. Enter a message which will become part of the invitation email.

Send invitation

Is create several discussion forums to interchange with various partners.

The screenshot shows a web interface for a forum. On the left, there is a navigation menu with two sections: '3m2p' and 'Search'. The '3m2p' section includes links for 'My H-Know', 'Collaborative Spaces', 'Entities', 'Collaborative e-Learning Courses', 'BC1 Window Tool', and 'Log out'. The 'Search' section includes links for 'Search content', 'Search partners', 'Search collaborative spaces', 'Search entities', 'Search Courses', and 'Search in Ontology'. The main content area is titled 'Home » Groups » BC3 - VortalRehab HeadQuarters - Call for tenders » Forums'. Below this, there is a section for 'General discussion' with a navigation bar containing buttons for 'View', 'Contents', 'Forums', 'Images', 'Events', 'Edit', 'Meetings', 'Planner', 'Reports', 'Statistics', 'Clone', and 'Documents'. The 'Forums' button is highlighted. Below the navigation bar, there is a 'Post new Forum topic' button. The main content is a table with the following columns: 'Topic', 'Replies', 'Created', and 'Last reply'. The table lists three topics, each with a red envelope icon on the left. The first topic is 'Logistica (interno 3M2P)' with 0 replies, created 11 weeks 4 days ago by Guest User, and no last reply. A red annotation 'internal forum of 3M2P' is placed below this row. The second topic is 'Carpintaria (interno 3M2P)' with 0 replies, created 9 weeks 3 days ago by Guest User, and no last reply. The third topic is 'Gestão da Dono de obra. (DO+Proj*Empreiteiro Geral+Fiscalização)' with 0 replies, created 11 weeks 4 days ago by Guest User, and no last reply. A red annotation 'Forum for discussions with Owner of work' is placed below this row. At the bottom left of the table, there is a small orange RSS icon.

Home » Groups » BC3 - VortalRehab HeadQuarters - Call for tenders » Forums

General discussion

View Contents **Forums** Images Events Edit Meetings Planner Reports Statistics Clone Documents

Post new Forum topic

Topic	Replies	Created	Last reply
 Logistica (interno 3M2P)	0	11 weeks 4 days ago by Guest User	n/a
 Carpintaria (interno 3M2P)	0	9 weeks 3 days ago by Guest User	n/a
 Gestão da Dono de obra. (DO+Proj*Empreiteiro Geral+Fiscalização)	0	11 weeks 4 days ago by Guest User	n/a

 **Forum for discussions with Owner of work**

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**

Firefox Course: HK - BC3
 dionisis.inescporto.pt:8282/drupalv2/moodle/course/view.php?id=11

Learning Courses

H-KNOW ▶ BC3-MRUH

Switch role to... Turn editing on

People ↑

Participants

Calendar ↑

January 2012

Sun	Mon	Tue	Wed	Thu	Fri	Sat
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31				

Events Key

Global Course
 Group User

Administration ↑

- Turn editing on
- Settings
- Assign roles
- Grades
- Groups
- Backup
- Restore
- Import
- Reset
- Reports
- Questions
- Files
- Unenrol me from BC3-MRUH

Topic outline

Masonry Repair using HELIFIX systems

PRESENTATION

This training module is an introduction to HELIFIX masonry reinforcement systems.

Abstract:
 This course gives a comprehensive knowledge of common masonry defects and problems where Helifix repair techniques can be used to solve and repair.

Course Details:

- Explain principles of damage investigation, of cause diagnosis and design of repair scheme.
- Not intended to transform contractors into surveyors or engineers.
- In conjunction with approved Helifix installers the objective is to become the first support for clients with masonry problems.
- Providing technically sound, cost-effective solutions to the problems of masonry failure.
- Be aware about causes of the damage and that these have been correctly diagnosed.

Course plan is composed by five modules:

MODULE 1. Helifix & Forms of Construction
MODULE 2. Masonry Structural Assessment
MODULE 3. Principles of the Helibeam System
MODULE 4. Helifix Repair Techniques
MODULE 5. Helifix Project Form & Repair Procedures

Participation and Communication

Latest News ↑

Add a new topic...
 (No news has been posted yet)

Upcoming Events ↑

There are no upcoming events

Go to calendar...
 New Event...

Phase 5. Registration and distribution of information.

Advantages in the organization through collaborative spaces.

H-KNOW BC3 RELATED COLPLACES CLONING COLPLACES

partner1 (admin)
partner 2
partner 3
...

colspace
call for
tenders

related space

colspace
VortalRehab
HeadQuarters -
Contract Execution

- defining relationships between colPlaces
- quickly creation of a related colPlace by cloning an existing one and customising it

partner1 (admin)
partner 2
partner 3
partner 4
partner 5

H-KNOW BC3

COLPLACE SELECTIVE CONTENT PERMISSIONS

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

H-KNOW BC3

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 portal

H-KNOW BC3

colspace
call for tenders

**h-know
business
community**

**Content
collection,
organising,
presentation**

Content	Permission
Blog	Private
Page 1	Private
...	...
Document 4	Public

colspace
VortalRehab
HeadQuarters -
Contract Execution

Content	Permission
Blog	Private
Page 1	Private
...	...
Document 4	Public

