# PROJECT H-KNOW

## Business Case 3 – Demonstrator

**Completed process of rehabilitation**

**Historical house in Porto Center**

**Palace of Count Bolhão**

**Presented by Alfredo Soeiro, U. Porto**

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 materialsfor 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.**
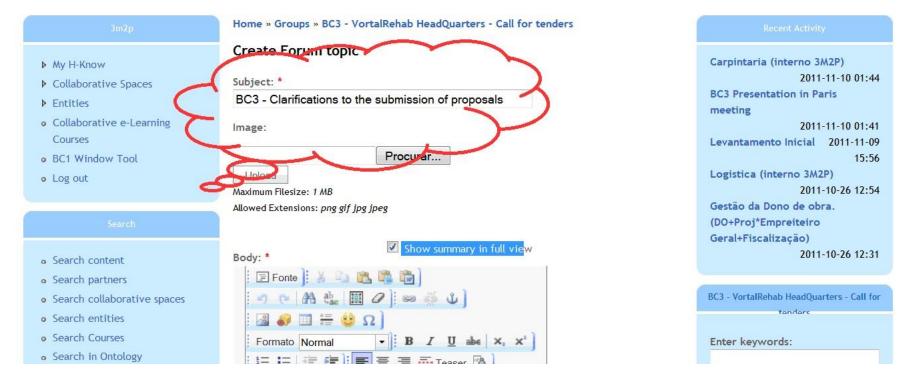


**José Gigante, places in the collaborative space all the drawings and specifications for completion of the project.**

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



**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.

| | Nome | Duração |
|---|---|---|
| 1 | Recepção de documentos | 1d |
| 2 | Prepração dos documentos | 2d |
| 3 | Consultas | 4d |
| 4 | Documentos internos | 2d |
| 5 | Preparação da proposta | 10d |
| 6 | Apresentação da proposta | 0d |

28/12/2011

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



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

**Send invitation**

Email addresses or usernames:

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

- ▷ Meu H-Know
- ▷ Espaços Colaborativos
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- ○ 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 (cottenceau-tailledepierre@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.

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 |

**internal forum of 3M2P**

**Forum for discussions with Owner of work**

**3m2p**

▷ My H-Know
▷ Collaborative Spaces
▷ Entities
○ Collaborative e-Learning Courses
○ BC1 Window Tool
○ Log out

**Search**

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

# 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**

# Learning Courses

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

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

### Upcoming Events
There are no upcoming events

Go to calendar...
New Event...

# 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 theses 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

**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**
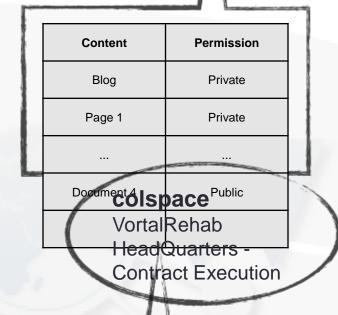
h-know community
public information portal

**BC3**

# 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 |