

Co-funded by the



CEBAMA

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Generic Poster presenting the Project

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Start date of project: 01/06/2015 Duration: 48 Months

Project co-funded by the European Commission under the Euratom Research and Training Programme on Nuclear Energy within the Horizon 2020 Framework Programme		
Dissemination Level		
PU	Public	
PP	Restricted to other programme participants (including the Commission Services)	
RE	Restricted to a group specified by the partners of the CEBAMA project	
CO	Confidential, only for partners of the CEBAMA project	

ABSTRACT:

A generic poster has been prepared for presentation of CEBAMA at scientific conferences and workshops.

RESPONSIBLE:

Jane Perrone (Amphos 21), as indicated in Grant Agreement

MAIN TEXT:

The following poster presenting the collaborative project CEBAMA has been prepared, providing a generic description of the project workplan, consortium and organization.

The poster is intended to be updated and adapted as the project develops and to specifically meet the demands for presentations at specific technical conferences and workshops.

The Cebama project (www.cebama.eu)

The **Collaborative Project Cebama** addresses key scientific questions related to the use of cement-based materials in nuclear waste disposal applications. The scientific quality and impact of Cebama builds on joining expertise to tackle these problems within a collaborative approach and emphasizing how the generated knowledge can be applied in the Safety Analysis and Safety Case. Progress beyond the state-of-the-art is achieved by providing basic and trustworthy knowledge, new experimental data, improved modeling and arguments for the Safety Case. Cebama is funded by the European Commission under the Horizon 2020 frame of the European Atomic Energy Community (EURATOM) with the aim to contribute to the development of solutions for the management of ultimate radioactive waste in support of the implementation of the first-of-the-kind geological repositories.

Duration: 4 years starting June 1st 2015. **Total Budget ~ 6 M€, (EC contribution ~ 3.9 M€)**

Project Work Plan

The R&D is carried out in three R&D Work Packages (WP 1-3), with a high level of iteration between these Workpackages. WP 4 is focusing on dissemination and training, WP5 is related to project management. WP leader are indicated in grey.



WP1: Experiments on interface processes and the impact on physical Properties (E. Holt / F. Claret / U. Mäder)

Experimental studies are performed to understand the interface processes between cement-based materials and the host rocks (crystalline rock, Boom Clay, Opalinus Clay (OPA), Callovo-Oxfordian (COX)) or bentonite backfill and the impact on physical (transport) properties is assessed.

WP2: Radionuclide retention (B. Grambow)

Radionuclide retention processes are studied in high pH concrete environments. Radionuclides which have high priority from the scientific and applied perspective are selected. (Be, C, Cl, Ca, Se, Mo, I, Ra).

WP3: Interpretation and modelling (A. Idiart)

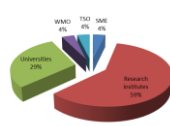
The validity of numerical models to predict changes in transport processes as a result of chemical degradation is analyzed and improved. Advanced data interpretation and process modelling, covering mainly issues responsible for the changes in transport properties, is supported.

WP4: Documentation, Knowledge Management, Dissemination and Training (J. Perrone)

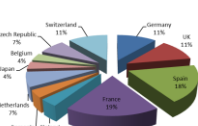
WP5: Management (M. Altmaier, V. Montoya)

Consortium

Distribution of beneficiaries



Distribution of beneficiaries on a member state basis



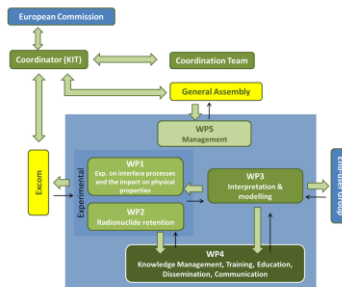
Beneficiaries (27):



End-User Group (9):



Project structure



Associated Groups

Cebama is offering the opportunity of external groups to join the project within the status of Associated Groups (AG). AGs will participate in Cebama at their own costs with specific scientific/technical contributions or particular information exchange functions. The AGs will be invited to the Annual Project Workshops and receive access to the public deliverables and scientific technical information obtained in the project. (contact: marcus.altmaier@kit.edu).

1st Annual Workshop: week from May 8th 2016, Barcelona, Spain