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CEBAMA

➤ (Contract Number: 662147)

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Minutes from 3rd Annual Workshop

Editors: Alba Valls, Lara Duro (AMPHOS21)

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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	X
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:

The 3rd Annual Workshop of the collaborative project Cebama was held in Nantes (France) on April 17th – 18th 2018. The workshop was hosted by Subatech. There were 65 attendees, including beneficiaries, End-User-Group members, AG representatives and other external experts.

The workshop was organized during two days including different sessions:

- a) Individual Workpackage meetings,
- b) Plenary sessions (presentation of workpackage outcomes),
- c) Scientific-technical poster session,
- d) Topical Session and Stakeholder panel.

The workshop also included the ExCom and EUG meeting and the General Assembly. The minutes of this meetings are described in different documents available in the intranet of the CEBAMA project.

The main scientific outcome of the workshop will be reported in the 3rd Annual workshop Proceedings which will be available to the open public at the Project Website and KIT library webpage, as a deliverable and as a KIT scientific report, respectively.

RESPONSIBLE:

Alba Valls (AMPHOS21)

Reviewed by: Vanessa Montoya (KIT)

MAIN TEXT: Minutes of the 3rd Annual Workshop of Cebama

Event: 3rd Annual Workshop

Date and place: April 17th - 18th 2018, Westotel, Nantes (France).

Participants: 65, representing Beneficiaries, EUG, AG and other external experts.

The 3rd Annual Workshop of Cebama was a cluster of the following meetings and sessions:

- ExCom meeting,
- EUG meeting,
- Individual Workpackage meetings,
- Plenary sessions (presentation of workpackage outcomes),
- Scientific-technical poster session,
- Topical Session and Stakeholder panel,
- General Assembly.

The general Workshop agenda is presented in Figure 1. The detailed agenda is included in **Appendix 1**, where the presentations included in each session are listed.

Preliminary Agenda (17th - 18th April 2018)	
Tuesday 17th April 2018	Wednesday 18th April 2018
10:30-12:00 1 st ExCom meeting (restricted to ExCom members)	09:00-11:00 WP1 plenary session
12:00-13:00 LUNCH (restricted to ExCom)	11:00-11:30 <i>Coffee break</i>
13:00-13:30 Welcome + Presentation by the Coordination Team	11:30-13:30 WP3 plenary session
13:30-15:00 Individual WP sessions	13:30-14:30 LUNCH
15:00-15:30 <i>Coffee break</i> (includes brief EUG meeting, restricted to EUG and ExCom)	14:30-16:00 Topical Session + Stakeholder Panel (Topic: Decommissioning)
15:30-17:00 WP2 plenary session	16:00-16:30 <i>Coffee break</i>
17:00-17:15 <i>Coffee break</i>	16:30-17:30 EUG feedback + General Assembly
17:15-17:30 AG Presentations	20:00 <i>Dinner at the Hotel</i>
17:30-18:00 Poster Session (PhD presentations, 5 min each)	
20:00 -- Workshop DINNER --	

Figure 1: General agenda of the 3rd Annual Workshop of Cebama.

Specific minutes for the ExCom meeting, the EUG meeting and the General Assembly are prepared separately to the Workshop minutes (this document). The minutes are available at

the intranet of the project (www.cebama.eu). Their intranet location is justified by the different access rights (see Table 1).

Table 1: Minutes prepared additionally to this Workshop minutes

Meeting	Addressee*	Intranet location
ExCom	Restricted to members of the ExCom (Coordination Team and WP leaders)	<i>Files/ExCom/Minutes</i>
EUG	Restricted to members of the EUG and the ExCom	<i>Files/End Users Group/Meetings</i>
General Assembly	Restricted to beneficiaries	<i>Files/General Assembly/Meetings</i>

**all the minutes are available for the Project officer*

The following lines provide an overview of the sessions held during the 3rd Annual Workshop of the Cebama project.

Welcome and Presentation by the Coordination Team (17.04.2018)

Bernd Grambow, WP2 leader and director of the host organization (Subatech), welcomed the participants.

Following, Vanessa Montoya (KIT) (on behalf of the project coordinator, Marcus Altmaier, KIT) proceeded with the presentation of the Coordination Team, mainly focussing on managing and coordinating aspects of the project as well as on Knowledge Management and Dissemination actions. The corresponding slides are presented in **Appendix 2**.

Individual WP sessions (17.04.2018)

After the Coordination Team presentation, the individual WP sessions took place in parallel (WP1, WP2 and WP3). These sessions were devoted to internal discussions on:

- i. Showing the technical progress of each WP and to present specific/detailed work of some of the partners,
- ii. Discussing on the next deliverables, with special mention to the submission of the manuscript for the peer-reviewed publication on the results generated within each WP,
- iii. Informing of past events related with the project during the last year, with special focus in the work performed in the training mobilities and the Cebama PhD workshop at PSI.
- iv. Informing on the 2nd Reporting Period duties for all the beneficiaries,
- v. Agree on the second data exchange between work-packages in order to achieve the following milestones:
 - M1.6: 2nd WP1 data freeze of experimental data (input to WP3)

- M2.3: 2nd WP2 data freeze of experimental data (input to WP3)
- M3.3: Input received from 2nd data freeze of experimental data (from WP1 and WP2)

The slides presented by WP leaders and partners are available for project beneficiaries at the intranet of the project. The location is *Files/WP4/3rd AWS/Presentations/Individual Sessions*. These presentations also include the slides informing on the progress of partners that could not attend the meeting.

Plenary sessions (17-18.04.2018)

Three plenary sessions took place between the 17th and 18th of April (one session per each technical WP, WP1-WP3). Each plenary session includes an overview of the work-package (talk given by the WP leaders) followed by 6-8 talks presenting technical details and the last results obtained from the work conducted. In some cases, joint presentations between 2-3 partners were given, also showing the positive level of interaction within the project.

In WP3 plenary session it was also shortly explained by Leonardo Hax Damiani (pHD student) the outcome of the Cebama pHD workshop held in PSI (February) and the recent progress of the common modelling task was explained by A. Idiart (WP leader).

The list of presentations given in each plenary session is included in the detailed agenda (see **Appendix 1**). The slides presented in WP1-3 plenary sessions are available at the project intranet (location: *Files/WP4/3rd AWS/Presentations/Plenary sessions*).

AG Presentations (17.04.2018)

Two representatives of the Associated Groups (AG) attended the workshop. A specific session to allow the Associated Groups presenting their work was organised. This year, Vladimir Petrov from the Lomonosov Moscow State University gave a talk on the “Effect of radiation on leaching behavior of cement compounds” (see presentation slides at *Files/WP4/3rd AWS/Presentations/Other presentations*).

Bastian Graupner (ENSI) introduces himself and his organization, during the General Assembly. ENSI is the third organization joining the project as an AG.

Scientific-technical poster session and PhD presentations (17.04.2018)

The scientific-technical poster session took place on Wednesday evening. Additional results not presented during the plenary session were shown in the form of posters. The investigation conducted by 14 partners was presented. Three of the 13 posters were presented jointly between 2 Cebama organizations. The 13 posters will be included in the corresponding Workshop Proceedings, which will be available through the project website and as a KIT scientific report.

In the frame of PhD training, PhD students had the opportunity to present with a short speech of 5 min their posters during the session. 3 students briefly presented their work.

- “Pore-scale reactive transport modelling of transport and leaching processes in cementitious materials”. **S. Rohmen**, A. Idiart, G. Deissmann, D. Bosbach.
- “Radionuclide migration at the low pH cement/clay interface: derivation of reactive transport parameters”. **N. Ait Mouheb**, V. Montoya, T. Schäfer, H. Geckeis.
- “FeniCS-Reaktoro coupling: constricted pores and cement/clay interfaces”. **L. Hax Damiani**, Y. Yang, S.V. Churakov, G. Kosakowski.

Topical Session and Stakeholder Panel (18.04.2018)

The 2nd Stakeholder Panel was organized as a Topical Session during the 3rd Annual Workshop of the project. Three scientific experts gave a talk on the role of cementitious materials and recent investigations in the frame of decommissioning and dismantling of radioactive installations.

The session was chaired by B. Grambow (Subatech). The panellists and the corresponding presentations are listed below. The presented slides are only available for Consortium Members in the project intranet (location: *Files/WP4/3rd AWS/Presentations/Topical Session*).

- “Overview of CEA decommissioning programs and associated R&D”. **Christine Georges** (CEA, FR)
- “EDF applications for concrete and cementitious materials. Focus on radioactive waste packages”. **Marina Bottoni** (EDF, FR)
- “Procedures for measurement of radionuclides in cement-based materials for nuclear decommissioning”. **Ben Russell** (NPL, UK)

EUG statements (18.04.2018)

Seif Ben Hadj Hassine (EUG chairman), on behalf of the EUG, gave feedback to the Consortium about the progress of the project. The statement is included in **Appendix 3** and within the EUG minutes. The transparencies provided by the EUG are also available at the project intranet (*Files/WP4/3rd AWS/Presentations/Other presentations*).

Two main conclusions can be drawn from their presentation:

- The work conducted by Cebama partners is highly appreciated and it progresses according with the planning.
- The organization was too tight and more time for results discussion is asked for the forthcoming and final workshop.

General Assembly (18.05.2017)

The General Assembly, chaired by Norbert Maes (SCK·CEN), closed the 3rd Annual Workshop. Specific minutes of this session, detailing the decisions taken by GA at this meeting, are available at the project intranet and only available for project partners (*Files/General Assembly/Meetings*).

APPENDICES:

Appendix 1: Meeting agenda

Appendix 2: Presentation by Coordination Team

Appendix 3: End-Users Group Feedback on the 3rd CEBAMA Workshop

Appendix 1: Meeting agenda

Tuesday, April 17th, 2018

Place : Westotel

Rue de la Vrière, 34, La Chapelle-sur-Erdre, (France)

- 10:30-12:00 **ExCom meeting**
(restricted to ExCom members. Room MYKONOS)
- 13:00-13:30 **Welcome + Presentation by the Coordination Team – room LES OLIVIERS**
CT: V. Montoya (KIT), Alba Valls (AMPHOS), Lara Duro (AMPHOS)
- 13:30-15:00 **Individual WP session**
(WP1 in room LES OLIVIERS, WP2 in room LIPARI, WP3 in room MYKONOS)
- 15:00-15:30 *Coffee break*
and
EUG + ExCom meeting
(restricted to ExCom and EUG members. Room LIPARI)
- 15:30-17:00 **WP2 Plenary Session – Room LES OLIVIERS**
WP leader: B. Grambow (Subatech/Armines)

- **Status of WP2**

Technical presentations

- M. Isaacs, S. Lange, G. Deissman, D. Bosbach, E. Rastrick, M. Felipe-Sotelo, D. Read. Retention and mobility studies of safety relevant radionuclides in cementitious materials. – SURREY – JUELICH - NPL
- S. Lange, P. M. Kowalski, M. Psenicka, M. Isaacs, M. Klinkenberg, D. Read, D. Bosbach, G. Deissman. Uptake mechanisms of radionuclides in cementitious systems: insights from atomistic simulations. – JUELICH - SURREY
- B. Srtinova. Behavior of radium and strontium in contact with cementitious materials relevant for LILW disposal in the Czech Republic. – CTU
- C. Bucur, I. Florea, N. Deneanu, R. Dobrin, N. Dulama. Ra-226 sorption on intact and degraded HCPs. – RATEN
- S. Rasamimanana, C. Landesman, K. Perrigaud, S. Ribet, N. Bessaguet, B. Grambow. Uptake and diffusion properties of HTO and inorganic C-14 through hardened cement paste: Influence of carbonation and water saturation. – SUBATECH/ARMINES

- L. Nedyalkova, B. Lothenbach, J. Tits, W. Wieland, U. Mäder. Effect of redox conditions on sulfur, selenium and iodine binding in AFm phases. – EMPA - PSI – UNIBERN
- M. Lopez, J. Olmeda, M. Grivé: Building blocks on molybdenum retention processes in cement systems. Mo retention onto pure cement phases: Kinetic experiments. – AMPHOS21
- X. Gaona, N. Cevirim-Papaioannou, N. Ait Mouheb, V. Montoya, M. Altmaier. Solubility, hydrolysis and sorption of beryllium in cementitious systems. – KIT
- Thermodynamic and crystallographic model for anion uptake by hydrated calcium aluminate (AFm): an example of molybdenum – BRGM

17:00-17:15 Coffee break

17:15-17:30 AG Presentation

- Effect of radiation on leaching behavior of cement compounds. – Lomonosov Moscow State University

17:30-18:00 Poster Session (PhD presentation, 5 min each)

19:15 Workshop dinner

The Workshop dinner is organized at Les Machines de l'Ile de Nantes (transport from Westotel to the dinner place is organized): <https://www.lesmachines-nantes.fr/en/>

Wednesday, April 18th, 2018

Place : Westotel

Rue de la Vrière, 34, La Chapelle-sur-Erdre, (France)

9:00-11:00

WP1 Plenary Session – Room TRIBORD

WP leaders: E. Holt (VTT), F. Claret (BRGM) and U. Maeder (UniBern)

- **Status of WP1**

Technical presentations

- T. Vehmas, M. Leivo, E. Holt, M.C. Alonso, A. Fernandez, J. L. Garcia Calvo, R. Vasicek, R. Cervinka, P. Vecernik, T. Rosendorf, J. Svoboda, N. Fink, V. Montoya, N. Ait Mouheb, K. Dardenne, Jörg Rothe, T. Schäfer, H. Geckeis, S. Gaboreau. Cebama reference mix design for low-pH concrete and paste, intermediate results – VTT – CTU – CSIC – KIT – BRGM – UJV
- S. Gaboreau, Q. T. Phung, F. Claret, N. Maes. Experimental study of chemical degradation of cementitious materials in Boom Clay environment. – SCK·CEN + BRGM
- J. Cuevas, M.J. Turrero, A. Garralón, P. Gomez, J. Pena, L. Sanchez, E. Torres, M. C. Alonso, A. Fernandez, J. L Garcia Calvo, R. Fernandez, A. I. Ruiz, D. E. Gonzalez-Santamaria, M. Angulo, J. Gonzalez-Yelamos, A. Ortega, E. Rodriguez, J. Cuevas. A decade of OPC-concrete-compacted FEBEX bentonite interaction under controlled THC conditions. – CSIC + CIEMAT + UAM
- ZB. Liu, JF Shao, SY Xie, N Burlion, X. Bourbon, G. Decamps. Hydro-mechanical behaviours and chemical degradation effects on interface properties. – LML + ANDRA
- R. Vasicek, R. Cervinka, P. Vecernik, T. Rosendorf, J. Svoboda. Geochemical and Thermal Effects on Cementitious Materials Characteristics: Strength, pH of Leachates, Mineralogy, Diffusion. – CTU + UVJ
- R. Vasconcelos, C. Corkhill, J. Provis. The physico-chemical evolution of a low-pH cement in contact with ground water. – USFD
- T. Vehmas, M. Leivo, E. Holt. Leaching of Hardened Portland Cement with various C/S - ratios. – VTT

11:00-11:30

Coffee break

11:30-13:30

WP3 Plenary Session - - Room TRIBORD

WP leader: A. Idiart (Amphos21)

- **Status of WP3 and Modelling task**

Technical presentations

- V. Montoya, N. Ait Mouheb, T. Schäfer, H. Geckeis. Modelling of radionuclides migration in the low pH cement/clay interface. – KIT
- M. Lavina, A. idiart, J. Olmeda. Influence of water availability on the hydration of the Cebama reference mix. – AMPHOS21
- A. Hördt, M. Bucker, P. Leroy, S. Huisman, E. Zimmermann, S. Gaboreau, F. Claret, H. Stebner. An extended membrane polarization model for spectral induced polarization of low-pH cement and concrete. – BRGM – JULICH – TU Braunschweig
- H. Meeussen. Electromigration of Se in Bentonite and Boom Clay: comparing model calculations and experimental results. – NRG
- J. Samper, A. Mon, L. Montenegro, A. Naves, J. Fernandez, J. Cuevas, R. Fernandez, M. J. Turrero, E. Torres Nonisothermal reactive transport model of heating and hydration concrete/bentonite column tests. – UDC
- Evaluation of diffusion experiments performed on cementitious samples in Czech laboratories within WP1 and WP2. – CTU

13:30-14:30 LUNCH

EUG (lunch + EUG meeting in a separate room) – *restricted to EUG members*

14:30-16:00h Topical session + Stakeholder panel discussion – Room TRIBORD

Chairperson: B. Grambow (Subatech)

Panellists:






- *Christine Georges (CEA, FR): Overview of CEA Decommissioning programs and associated R&D*
- *Marina Bottoni (EDF, FR): EDF applications for concrete and cementitious materials. Focus on radioactive waste packages.*
- *Ben Russell (NPL, UK): Procedures for Measurement of Radionuclides in Cement-Based Materials for Nuclear Decommissioning*

16:00-16:30 Coffee break

16:30-17:30 EUG feedback + General Assembly – TRIBORD

20:00 Dinner at the hotel






Appendix 2: Presentation by Coordination Team (V. Montoya – KIT)



Presentation by the Coordination Team

The transparencies will be distributed with the minutes

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Cebama - key data

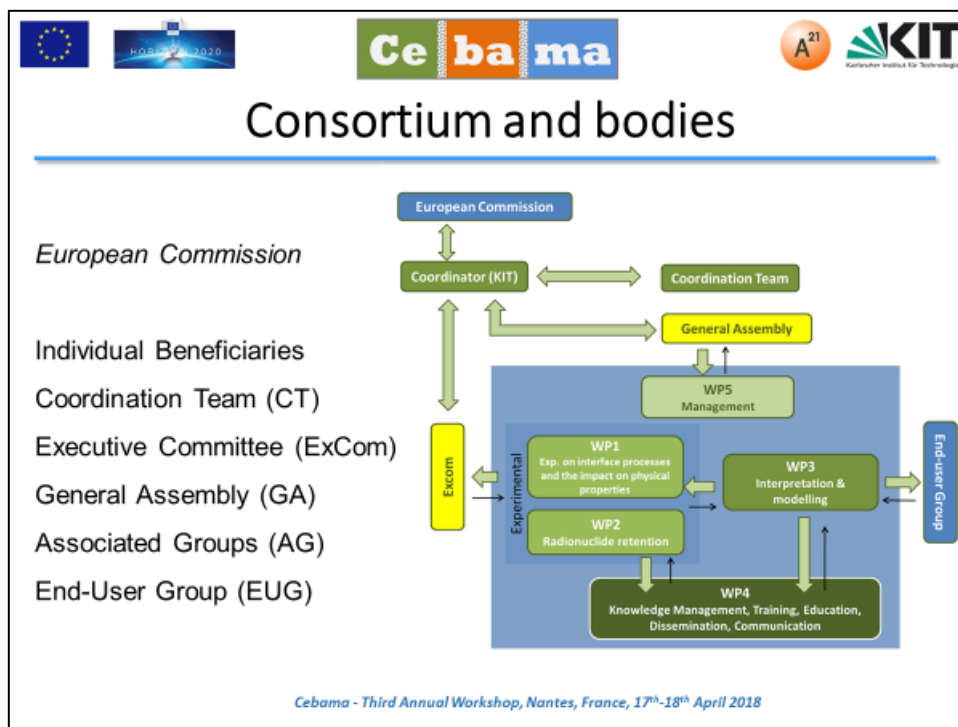
- **Grant agreement No:** 662147 => **basis for the Cebama project!**
- **Action full title:** Cement-based materials, properties, evolution, barrier functions
- **Estimated eligible costs:** 5,952,944.50 EUR
- **Maximum grant amount:** 3,868,607.25 EUR
- **PF Amount:** 1,676,397.00 EUR
- **GF Amount:** 193,430.36 EUR
- **Reporting periods:**



We are at PM 34


No	Month From	Month To	
1	1	18	DONE
2	19	36	June 2018
3	37	48	



from Grant Agreement Data Sheet

Cebama - Third Annual Workshop, Nantes, France, 17th-18th April 2018














































Individual Beneficiaries

1	KIT	KARLSRUHE INSTITUTE OF TECHNOLOGY		DE
2	AMPHOS 21	AMPHOS 21 CONSULTING SL		ES
3	BRGM	BUREAU DE RECHERCHES GEOLOGIQUES ET MINIERES		FR
4	NERC-BGS	NATURAL ENVIRONMENT RESEARCH COUNCIL		UK
5	CIEMAT	CENTRO DE INVESTIGACIONES ENERGETICAS, MEDIOAMBIENTALES Y TECNOLOGICAS		ES
6	TU Delft	TECHNISCHE UNIVERSITEIT DELFT		NL
7	JUELICH	FORSCHUNGSZENTRUM JUELICH		DE
8	RATEN ICN	REGIA AUTONOMA TEHNOLOGII PENTRU ENERGIA NUCLEARA		RO
9	NRG	NUCLEAR RESEARCH AND CONSULTANCY GROUP		NL
10	RWMC	RADIOACTIVE WASTE MANAGEMENT FUNDING AND RESEARCH CENTER		JP

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<h2>Individual Beneficiaries</h2>				
11	SCK CEN	STUDIECENTRUM VOOR KERNENERGIE- CENTRE D'ETUDE DE L'ENERGIE		BE
12	ARMINES	ASSOCIATION POUR LA RECHERCHE ET LE DEVELOPPEMENT DES METHODES ET PROCESSUS INDUSTRIELS		FR
13	UJV	UJV REZ A.S.		CZ
14	UDC	UNIVERSIDAD DE LA CORUNA		ES
15	ULOUGH	UNIVERSITY OF LOMBOROUGH		UK
16	CTU	CESKE VYSOKE UCENI TECHNICKE V PRAZE		CZ
17	USFD	THE UNIVERSITY OF SHEFFIELD		UK
18	VTT	TEKNOLOGIAN TUTKIMUSKESKUSS		FI
19	HZDR	HELMHOLTZ-ZENTRUM DRESDEN-ROSSENDORF EV		DE
<i>Cebama - Third Annual Workshop, Nantes, France, 17th-18th April 2018</i>				

				
<h2>Individual Beneficiaries</h2>				
20	LML	UNIVERSITE DES SCIENCES ET TECHNOLOGIES DE LILLE – LILLE 1		FR
21	UAM	UNIVERSIDAD AUTONOMA DE MADRID		ES
22	CSIC	AGENCIA ESTATAL CONSEJO SUPERIOR DE INVESTIGACIONES CIENTIFICAS		ES
23	ANDRA	AGENCE NATIONALE POUR LA GESTION DES DECHETS RADIOACTIFS		FR
24	PSI	PAUL SCHERRER INSTITUT		CH
25	UNIBERN	UNIVERSITAET BERN		CH
26	IRSN	INSTITUT DE RADIOPROTECTION ET DE SÛRETÉ NUCLEAIRE		FR
27	EMPA	SWISS FEDERAL LABORATORIES FOR MATERIALS TESTING AND RESEARCH		CH
28	SURREY	UNIVERSITY OF SURREY		UK
<i>Cebama - Third Annual Workshop, Nantes, France, 17th-18th April 2018</i>				



Project Coordination Team (CT)

- The coordinator is KIT.
- The coordination team is shared by two organizations, the Coordinator (KIT), and the Coordination Secretariat (AMPHOS21):

Project Coordinator – **Marcus Altmaier** (KIT)

Scientific-Technical Coordination Support – **Lara Duro** (AMPHOS21)

Knowledge Management and Dissemination Officer – **Alba Valls** (AMPHOS21)

Administrative Officer – **Vanessa Montoya** (KIT)

Financial Officer – **Bernhard Dasselaar** (KIT)

Legal Officer – **Julia-Aline Groh** (KIT)

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Executive Committee (ExCom)

The project ExCom consists of the WP leaders and the Coordination Team:

WP 1 Experiments on interface processes and the impact on physical properties

Erika Holt (VTT) “spokeswoman”, **Francis Claret** (BRGM), **Urs Mäder** (UNIBERN)

WP 2 Radionuclide retention

Bernd Grambow (ARMINES)

WP 3 Interpretation & Modelling

Andrés Idiart (AMPHOS21)

WP 4 Documentation, Knowledge Management, Dissemination and Training

Alba Valls (AMPHOS21)

WP 5 Management

Marcus Altmaier (KIT), **Vanessa Montoya** (KIT)

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General Assembly (GA)

The General Assembly consists of one member from each partner organization to the project, including also the Non-EU organizations.

Norbert Maes (SCK-CEN) is Chairperson of the General Assembly.

- GA meetings are organized annually in conjunction with the annual workshops.
- Attendance in the GA meetings is restricted to the project beneficiaries (but open to extend to EUG who sit in and listen without having a vote).
- It has the ultimate responsibility regarding approval of management structure, project direction and Consortium Agreement.
- The role of the GA is to ensure that interests of the Beneficiaries are reflected, to guide project implementation and to formally accept decisions of significant importance for the project as a whole. Project management issues are discussed and adopted in GA meetings.

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Associated Group

➤ **Approach to AGs joining Cebama is defined in the Consortium Agreement Attachment, (=> Agreement on AG Participation).**

- AGs are participating in Cebama at their own costs with specific contributions.
- AGs are contributing to Cebama, within a structured dialogue to define areas and subjects of mutual interest.
- AGs are invited to the Annual Project Workshops.
- AGs will receive access to the public deliverables and scientific technical information obtained in the project.

➤ **As of April 2018, AGs to Cebama are:**

- **Moscow State University (MSU), Russia,** ✓
- **Los Alamos NL Carlsbad Office (LANL-CO), USA,**
- **Swiss Federal Nuclear Safety Inspectorate (ENSI), Switzerland.** ✓

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End-User Group (EUG)

The EUG is composed of nine persons representing Nuclear Waste Management organizations interests/expertise:

ANDRA, represented by Pierre Henocq

COVRA, represented by Erika Neeft

ENRESA, represented by Miguel Angel Cuñado

NAGRA, represented by Veerle Cloet

ONDRAF/NIRAS, represented by Seif Ben Hadj Hassine (EUG chairperson)

POSIVA, represented by Marja Vuorio

RWM, represented by Amy Shelton

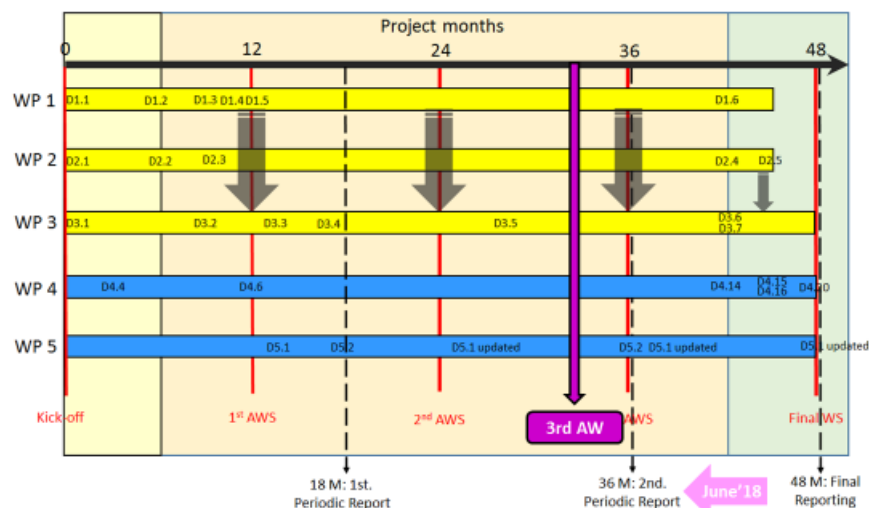
SKB, represented by Per Martensson

SURAO, represented by Lucie Hausmannova (and Antonin Vokal)






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Cebama Time schedule



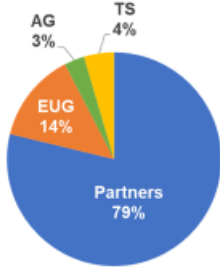
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3AWS Participation

Participation at the 3rd Annual Workshop

- 24 of the 27 partners are represented
- All EUG members
- 2 of the 3 AGs are joining the workshop
- 3 experts participating at the Topical Session (TS)



Category	Percentage
Partners	79%
EUG	14%
AG	3%
TS	4%

66 participants

Not attending: TUDelft, RWMC, IRSN

Cebama - Third Annual Workshop, Nantes, France, 17th-18th April 2018







Project Workshops

Calendar of project meetings

2015: Kick-off meeting, Brussels, Belgium (2 July 2015)

2016: 1st AWS organized by Amphos21, Barcelona, Spain (11-13 May 2016)

2017: 2nd AWS organized by VTT, Finland (16-18 May 2017)



2018: 3rd AWS organized by Subatech, Nantes, France (17-18 April)


2019: 4th AWS organized by KIT-INE, Karlsruhe, Germany



➤ Organized 4 AWS in Karlsruhe in connection to Workshop
“Mechanisms and Modelling of Waste/Cement Interactions”.
 Mo, 25.3., - We 27.3. : 5th International Workshop
 Tu 28.3. + Fri 29.3.: Cebama Final Meeting

Special Issues in Applied Geochemistry under negotiation.

Cebama - Third Annual Workshop, Nantes, France, 17th-18th April 2018

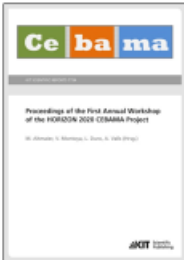





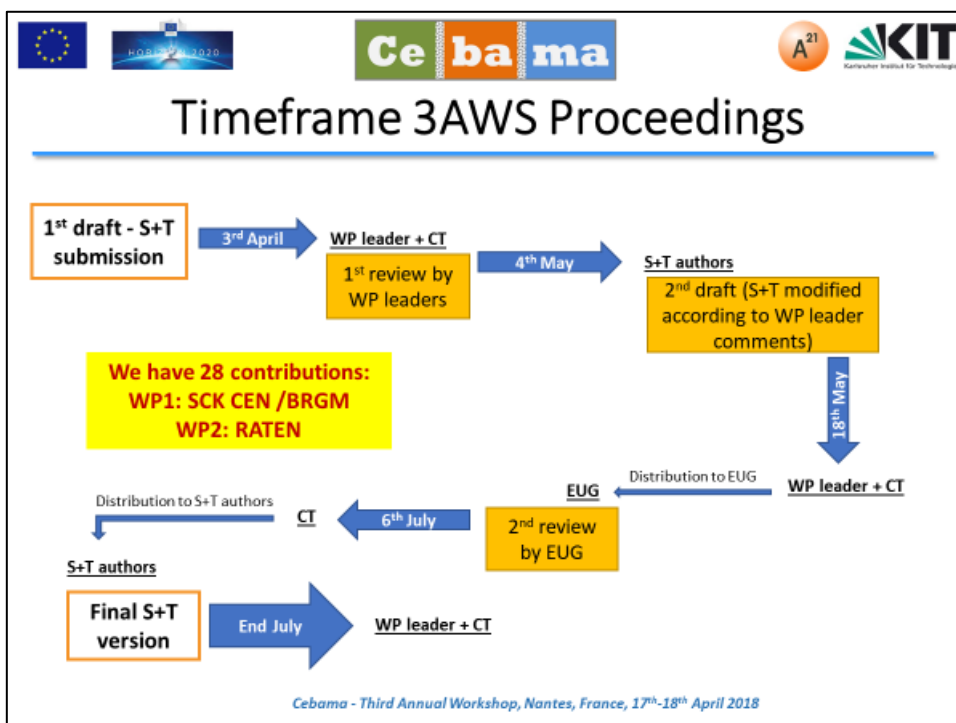
Annual Project Workshops




- The workshop proceedings to be published at KIT-Scientific publishing will be openly accessible and can be downloaded free of charge at the project WEB page <http://www.ksp.kit.edu>.
- Printing of 1 AWS Proceedings considerably delayed.
- 2 AWS Proceedings (related Deliverable D.4.11 available for download at PP and the Cebama webpage). → soon will be available as KIT report.
- Focus is on improving and speeding up process for preparing 3 AWS Proceedings!





Proceedings of the 1st Annual Workshop of CEBAMA

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Publications...




GA, p49



29.2 Open access to scientific publications

Each beneficiary must ensure open access (free of charge online access for any user) to all peer-reviewed scientific publications relating to its results.

- Cebama CT and all individual beneficiaries have **no specific budget** to support paying publishers to allow free access.
- It can be reported as a Eligible cost without increasing the approved budget
- Cebama will use financial resources which have not been used at the end of the project and distribute this to partners in order to reimburse those who have spent money to provide open access.

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Publications...

8.3.1 Dissemination of own Results

Cebama CA

8.3.1.1 During the Project and for a period of 1 year after the end of the Project, the dissemination of own Results by one or several Parties including but not restricted to publications and presentations, shall be governed by the procedure of Article 29.1 of the Grant Agreement subject to the following provisions.

Prior notice of any planned publication shall be given to the other Parties at least 45 calendar days before the publication. Any objection to the planned publication shall be made in accordance with the Grant Agreement in writing to the Coordinator and to the Party or Parties proposing the dissemination within 30 calendar days after receipt of the notice. If no objection is made within the time limit stated above, the publication is permitted.

- **Manuscripts for publication are sent to CT who distribute them to ExCom.**
- **CT and ExCom assess if manuscript is prepared according to the principles set out in GA and CA.**

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Acknowledge Cebama

Acknowledge the EC in your presentations/publications:

"The research leading to these results has received funding from the European Union's European Atomic Energy Community's (Euratom) Horizon 2020 Programme (NFRP-2014/2015) under grant agreement, 662147 - Cebama"

29.5 Disclaimer excluding *Commission* responsibility

Any dissemination of results must indicate that it reflects only the author's view and that the *Commission* is not responsible for any use that may be made of the information it contains.

- Point of reference is Cebama GA

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Risk Assessment

Copied from Grant agreement (pdf page 159):






The General Assembly will conduct a risk assessment at the kick-off meeting and the Annual Workshops, to identify critical risks, as well as their avoidance and mitigation plans on the basis of the information provided in the Description of Action. The risks will be judged to evaluate severity and impacts to the project's objectives and implementation. The risk assessment will include both technical challenges as well as concerns for the project operation. The risk assessments will be included in the periodic reporting to the EC.

- **Decision will be done at General Assembly.**



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Input for discussion at General Assembly			
Risk No	Description of risk	WPs inv.	Is a risk identified? Which? Proposed mitigation?
1	Material availability from in-situ experiments or laboratory preparation is delayed in sampling /delivery. The consequences would be that experiments cannot proceed and/or modelling is delayed.	1,3	NO
2	Failure in sample preparation identified, e.g. after hardening of the cement based materials. (pozzolanic reaction takes up to ~1 year.)	1	NO
3	Problems with failing experimental equipment in experiments required to exclude oxygen and carbonate.	1,2	NO
4	Delay in results from WP1 and/or WP2. Consequence: no possibility of considering project results in modelling task.	3	YES / NO ???
5	a) Results are not relevant to the End User b) Results are not impacting current knowledge.	1,2,3	YES / NO ??? Pending EUG feedback. NO
6	Partners working independently and not cooperating.	1,2,3	NO
7	No adequate PhD students found. Consequence: lack of adequate implementation of the research plan.	1,2,3	NO



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Dissemination Activities			
Cebama dissemination activities successfully managed by Amphos21 and include:			
Organization of 4 Annual Workshops			
Implementation and up-dating of the project webpage			
Dissemination of project knowledge: generic poster, project presentation and publication of scientific results			
Opening a LinkedIn account restricted to project members			
Preparation of semi-annual newsletters informing on the project progress			

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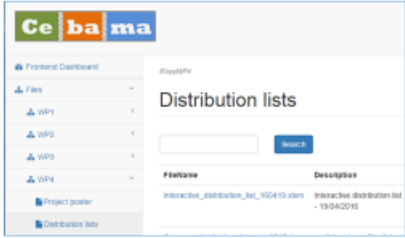







Dissemination Activities


- Cebama Intranet with Excel file called *"Interactive distribution list_date"*
- The file needs to be regularly updated at the intranet.
- A. Valls point of contact.





- Participants list
 - Classified by role (CT, ExCom member, EUG, WP participation, financial, legal, etc...)
 - Classified by institution
- Interactive mailing list

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Dissemination Activities

- Newsletter

Available at the Project website

Based on 2AW



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Dissemination Activities



- Poster
- **New update** after the 3AW (can be downloaded from the intranet)
- We encourage you to bring the poster to international conferences



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Mobility Measures

Budget of 10 k€ (5*2000 €) allocated at CT to support mobility measure in Cebama.






Excom + CT have received 5 applications → 4 accepted and approved by the GA (N. Maes)

Accepted Nov. 2017

Status:

Applicant researcher	Sending organization	Hosting organization	Period	WP
Janna Kittnerová	CTU	JUELICH	13 th Jan. – 13 th April	WP2
Aku Itälä	VTT	AMPHOS 21	12 th Feb – 17 th Feb.	WP3
Stephan Rohmen	JUELICH	PSI	19 th Feb. – 2 nd March	WP3
Enrique Rodríguez Cañas	UAM	BRGM	18 th March – 21 st April	WP1
Marta López García	AMPHOS 21	JUELICH	30 th April – 30 th June	WP2

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Project Deliverables

WP1: Experiments on interface processes and the impact on physical properties

PM35

No	Deliverable name	Lead Part	Type	DL	DD
D1.1	Detailed WP1 description of scientific work: compilation of partner descriptions with update of Appendix_B	BRGM/VTT/UNIBERN	R	PU	01
D1.2	Agreement and documentation of sytems to be studied	BRGM/VTT/UNIBERN	R	PU	06
D1.3	State-of-art report related to WP1 topics (initial)	BRGM/VTT/UNIBERN	R	PU	09
D1.4	Report on WP1 established experimental boundary conditions, experimental methods	BRGM/VTT/UNIBERN	R	PU	10
D1.5	Report on WP1 selected experimental materials to be used, including both new laboratory and aged in-situ samples	BRGM/VTT/UNIBERN	R	PU	12
D1.6	State-of-art report related to WP1 topics (updated)	BRGM/VTT/UNIBERN	R	PU	42
D1.7	Manuscript for peer-reviewed publication on results generated in WP1	BRGM/VTT/UNIBERN	R	PU	48

Project Deliverables

WP2: Radionuclide retention in high pH concrete

PM35

No	Deliverable name	Lead Part	Type	DL	DD
D2.1	Detailed WP2 description of scientific work: compilation of partner descriptions with update of Appendix_B	ARMINES	R	PU	01
D2.2	Agreement and documentation of systems to be studied	ARMINES	R	PU	06
D2.3	State-of-art report related to WP2 topics (initial)	ARMINES	R	PU	09
D2.4	State-of-art report related to WP2 topics (updated)	ARMINES	R	PU	42
D2.5	Report on new data (sorption, speciation, solubility) for radionuclide retention generated in WP2 (with updating)	ARMINES	R	PU	45
D2.6	Manuscript for peer-reviewed publication on results generated within WP2	ARMINES	R	PU	48

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Project Deliverables

WP3: Interpretation and modelling

PM35

No	Deliverable name	Lead Part	Type	DL	DD
D3.1	Detailed WP3 description of scientific work: compilation of partner descriptions with update of Appendix_B	AMPHOS21	R	PU	01
D3.2	Review and definition of modelling approach to be followed in the project: scale of analysis, physico-chemical processes, software, HPC resources.	AMPHOS21	R	PU	09
D3.3	Consolidated plan for Upscaling Modelling Task	AMPHOS21	R	PU	14
D3.4	Description of and results from the modelling of external lab and/or field experiments and industrial analogues	AMPHOS21	R	PU	18
D3.5	Preliminary results and interpretation of the modelling by incorporating results from WP1&WP2 experiments.	AMPHOS21	R	PU	30
D3.6	Final results and interpretation of the modelling by incorporating results from WP1&WP2 experiments	AMPHOS21	R	PU	45

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Project Deliverables

WP3 (continued)

PM35

No	Deliverable name	Lead Part	Type	DL	DD
D3.7	Report on the Upscaling Modelling Task	AMPHOS21	R	PU	45
D3.8	Manuscript for peer-reviewed publication on results generated within WP3	AMPHOS21	R	48	48

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Project Deliverables

WP4: Knowledge management, training and dissemination

PM35

No	Deliverable name	Lead Part	Type	DL	DD
D4.1	Preparation of a generic poster presenting the project	AMPHOS21	R	PU	0
D4.2	Set up project webpage and blog	AMPHOS21	R	PU	0
D4.3	Minutes from kick-of meeting	AMPHOS21	R	CO	02
D4.4	Planning on interaction with socio-political stakeholders	AMPHOS21	R	PU	03
D4.5	Communication Action Plan	AMPHOS21	R	PU	03
D4.6	Planned dissemination of final results	AMPHOS21	R	PU	12
D4.7 D4.10 D4.12 D4.18	Minutes of 1 st , 2 nd , 3 rd and 4 th annual workshop, respectively	AMPHOS21	R	CO	13 25 37 48

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Project Deliverables


WP4 (continued)



PM35

No	Deliverable name	Lead Part	Type	DL	DD
D4.8 D4.11 D4.13 D4.19	Draft of the 1 st , 2 nd , 3 rd , 4 th Annual project Workshop Proceedings, respectively	AMPHOS21	R	PU	15 27 39 48
D4.14	Report on interaction with non-scientific stakeholder	AMPHOS21	R	PU	42
D4.15	Final project reporting, dissemination, communication, training & education, ethical/socio-political/broader stakeholder involvement	AMPHOS21	R	PU	45
D4.16	Press release	AMPHOS21	R	PU	45
D4.17	List of mobility measures and summary of the works undertaken	AMPHOS21	R	PU	45
D4.9 D4.20	Report on the relevance of the outcome of Cebama for the Safety Case (Manuscript for peer-reviewed publication)	AMPHOS21	R	PU	18 36 48

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Project Deliverables


WP5: Project management



No	Deliverable name	Lead Part	Type	DL	DD
D5.1.x	Report/Documentation of exchange of data between experimental and modeling WPs (with updating)	KIT/ AMPHOS21	R	PU	14,26, 38,48
D5.2.x	Periodic management and activity reports	KIT/ AMPHOS21	R	PU	18,36, 48
D5.3	Final report (EUR)	KIT/ AMPHOS21	R	PU	48

Link D5.1c at PM 38 to Milestones and „data-freeze“

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Project Milestones

WP1

No	Milestone name	Estimates date	Means of verification
M1.1	Establish test methods, boundary conditions, materials	6	D1.3 and D1.4
M1.2	Distribution of first concrete and bentonite samples from existing in-situ (field) sites	12	MIN
M1.3	Distribution of first laboratory prepared samples	12	MIN
M1.4.x	Contributing to Kick-off meeting, Annual Project Workshops and Final Workshop	1,12,24,36, 48	WS Proc.
M1.5	1st WP1 data freeze of experimental data (input to WP3)	24	MAR
M1.6	2nd WP1 data freeze of experimental data (input to WP3)	36	MAR

M1.6 documented in 2AWS Minutes and Proceedings

Cebama - Third Annual Workshop, Nantes, France, 17th-18th April 2018






Project Milestones

WP2

No	Milestone name	Estimates date	Means of verification
M2.1.x	Contributing to Kick-off meeting, Annual Project Workshops and Final Workshop	1,12,24,36,48	WS Proc.
M2.2	1st WP2 data freeze of experimental data (input to WP3)	24	MAR
M2.3	2nd WP2 data freeze of experimental data (input to WP3)	36	MAR

M2.2 documented in 2AWS Minutes and Proceedings

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Project Milestones

WP3

No	Milestone name	Estimates date	Means of verification
M3.1.x	Contributing to Kick-off meeting, Annual Project Workshops and Final Workshop	12,24,36,48	WS Proc.
M3.2	Input received from 1st data freeze of experimental data (from WP1 and WP2)	24	MAR
M3.3	Input received from 2nd data freeze of experimental data (from WP1 and WP2)	36	MAR

M3.2 documented in 2AWS Minutes and Proceedings

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Project Milestones

WP4

No	Milestone name	Estimates date	Means of verification
M4.1	Organizing the kick-off meeting	1	MIN
M4.2 M4.4 M4.6 M4.8	Organizing 1 st , 2 nd , 3 rd and 4 th Annual Project Workshops, including training course, flyer etc, respectively.	10 22 34 45	WS Proc.
M4.3 M4.5 M4.7 M4.9	Exchange with EUG on project, ensuring that work is properly implemented and fits to End User requirements	10 22 34 45	MAR

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Project Milestones

WP5

No	Milestone name	Estimates date	Means of verification
M5.1.x	Printing of Annual Project Workshop Proceedings	16,28,40,48	MAR

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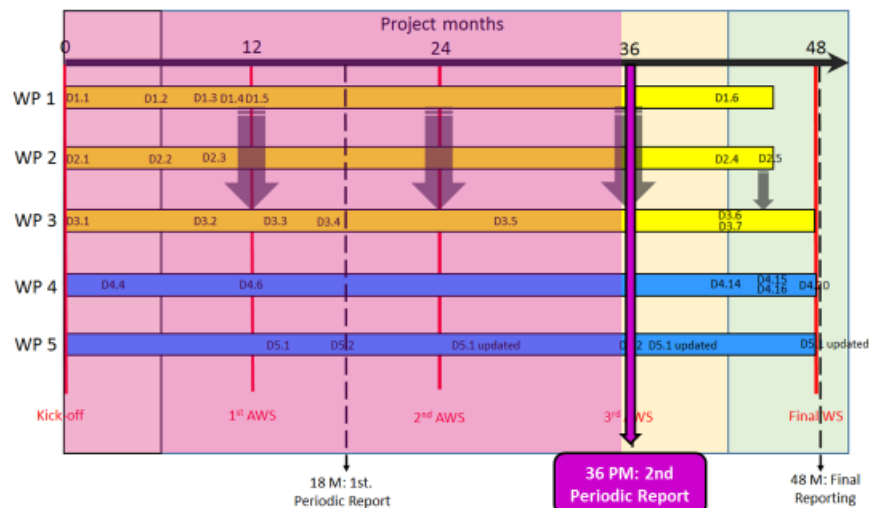
Reporting, financing

- **Maximum grant amount:** 3,868,607.25 EUR
- **Pre-financing amount:** 1,676,397.00 EUR
- KIT received pre-financing 15.06.2015, transfer of money soon afterwards.
- **Reporting for PM 18 submitted in early March 2017.**
- **RP1-financing amount:** 1,527,463.31 EUR (received June 2017)
- **Cumulative paid:** 3,203,860.31 EUR
- Next upcoming reporting to EC at PM 36, next month (**31 May 2018!!**)
- Coordinator will submit the report to the EC (max. 31 July 2018)
- **EC may routinely take 90 d for evaluation after receipt of reporting).**




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2nd Reporting



1st December 2016 – 31st May 2018






Management and Activity Reports

- The periodic reporting function is **activated** at the **end of each reporting period**




}





2nd Periodic Report:

Activation date: 31st May 2018
Reporting deadline: 31st July 2018

Cebama - Third Annual Workshop, Nantes, France, 17th-18th April 2018







Management and Activity Reports



Structure of the Periodic Report

1. Periodic **Technical** Report
 1. Part A (to be done via the participant portal)
 2. Part B (to be submitted as a report)
2. Periodic **Financial** Report (Individual financial statements filled in by each beneficiary and validated by the CT)

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Technical Report – Part A

PART A http://ec.europa.eu/research/participants/docs/h2020-funding-guide/grants/grant-management/reports/periodic-reports_en.htm#partA

- Please fill in only the required information (1+2) :

Summary for publication	Deliverables, Ethics, (IRB) Other Reports	Milestones	Critical Risks	Publications	Disseminat...	Patents (BPR)	SME Impact	Gender	AIS Regulation
✓	i	i	✓	✓	✓	✓	⚠	✗	i

1



2


Publications
 (publications at the Cebama Proceedings should not be included)



Article in Journal
 Publication in Conference proceedings/Workshop
 Book/Monograph
 Chapter in a Book
 Thesis/Dissertation
 Other

Deadline:
 15th June 2018

Cebama - Third Annual Workshop, Nantes, France, 17th-18th April 2018



Technical Report – Part B




PART B http://ec.europa.eu/research/participants/docs/h2020-funding-guide/grants/grant-management/reports/periodic-reports_en.htm#partB



- Core part of the report (free text – pdf document)
- Done by CT with the input from all beneficiaries

⇒ **Template** for reporting on Part B: [INTRANET: Files/WP5/Reporting](#)

Deadline:
 15th June 2018

Cebama - Third Annual Workshop, Nantes, France, 17th-18th April 2018




Financial Report



FINANCIAL REPORT http://ec.europa.eu/research/participants/docs/h2020-funding-guide/grants/grant-management/reports/periodic-reports_en.htm#fin.rep

- Beneficiaries and linked third parties must fill these in and submit them to the Commission, as part of the periodic report.
- Consists of structured forms from the grant management system, including:
 - individual financial statements (Annex 4 to the GA) for each beneficiary (and third parties)
 - explanation of the use of resources and the information on subcontracting and in-kind contributions provided by third parties, from each beneficiary for the reporting period concerned

Deadline:
15th June 2018

Cebama - Third Annual Workshop, Nantes, France, 17th-18th April 2018













Management and Activity Reports

- ❖ Documents of interest:
 - ❖ Reports & payment requests
http://ec.europa.eu/research/participants/docs/h2020-funding-guide/grants/grant-management/reports_en.htm
 - ❖ Periodic report manual (technical and financial reporting):
http://ec.europa.eu/research/participants/docs/h2020-funding-guide/grants/grant-management/reports/periodic-reports_en.htm
 - ❖ Periodic report template:
http://ec.europa.eu/research/participants/data/ref/h2020/gm/reporting/h2020-tmpl-periodic-rep_en.pdf#page=7

Cebama - Third Annual Workshop, Nantes, France, 17th-18th April 2018

Reporting summary

- 1st Reporting Period: 1st June 2015 to 30th November 2016 – DONE
- 2nd Reporting Period: 1st December 2016 to 31st May 2018

Reporting schedule (from 1st June 2018 until 31st July 2018)

Part A filled in at the PP

Request of information for Part B

Individual financial statements

Participant Portal

WP leader + CT

Participant Portal

15th June 2018

15th June 2018

15th June 2018

Participant Portal

CT

Participant Portal

15th June 2018




31st July 2018



31st July 2018

2nd Periodic Report

EC

Cebama - Third Annual Workshop, Nantes, France, 17th-18th April 2018

Project Status

- Kick-off meeting of Cebama in Brussels, July 2015.
- Meetings on WP level in London, Nov. 2015, in connection to IGD-TP EF.
- PM 7: start of Experimental Program.
- Consortium Agreement for Cebama completed in February 2016.
- First Annual Workshop, May 2016, Barcelona.
- Reporting to EC at PM18 was submitted in early March 2017.
- Second Annual Workshop, May 2017, Helsinki.
- Third Annual Workshop, April 2018, Nantes.
- Reporting to EC at PM36 to be submitted in June 2018.

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Summary

- At PM 34, May 2016, Cebama is working according to planning.
- Deliverables have been prepared and submitted.
- Relevant Milestones have been reached.
- Experimental Program at PM 34 successful with no significant problems being reported by beneficiaries.

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Topics for General Assembly (GA)

Topics for GA at end of 1AWS (Friday late morning):

- Acceptance of project progress and achievements.
- Risk assessment.
- ...

Cebama - Third Annual Workshop, Nantes, France, 17th-18th April 2018

Bentonite Summer School 2018

nagra.

Engineered Barrier Systems (EBS) - BENTONITE properties and applications



- **Dates:** 18.06. - 22.06.2018 (optional FMT-URL visit, 23.06.2018)
- **Duration:** 5 days, with general lecture hours from 08:00 am to 5:00 pm
- **Location:** Nagra's Grimsel Test Site near Guttannen Canton Berne, Switzerland (www.grimsel.com).
- **Costs:** CHF 3,500.00 (excl. travel, accommodation and VAT).
- **Registration:** The expected number of participants is a minimum 15 and a maximum 20. **The deadline for preliminary registration is March 31st, 2018.**



The Grimsel Test Site in the Swiss Central Alps and the gallery/experiment layout of GTS



3AWS Workshop Agenda

Tuesday 17th April 2018




- 10:30-12:00 1st ExCom meeting
(restricted to ExCom members)
- 12:00-13:00 LUNCH (restricted to ExCom)
- 13:00-13:30 Welcome + Presentation by
the Coordination Team
- 13:30-15:00 Individual WP sessions
- 15:00-15:30 Coffee break
(includes brief EUG meeting, restricted to
EUG and ExCom)
- 15:30-17:00 WP2 plenary session
- 17:00-17:15 Coffee break
- 17:15-18:00 Poster Session (PhD presentations,
5 min each)

Wednesday 18th April 2018

- 09:00-11:00 WP1 plenary session
- 11:00-11:30 Coffee break
- 11:30-13:30 WP3 plenary session
- 13:00-14:00 LUNCH
- 14:30-16:00 Topical Session + Stakeholder Panel
(Topic: Decommissioning)
- 16:00-16:30 Coffee break
- 16:30-17:30 EUG feedback + General
Assembly
- 20:00 Dinner at the Hotel

20:00 -- Workshop DINNER -- Workshop, Nantes, France, 17th-18th April 2018




Appendix 3: End-Users Group Feed-Back on the 3rd CEBAMA Workshop (S. Ben Hadj Hassine, ONDRAF/NIRAS)



End-Users Feedback

3rd CEBAMA Workshop

Cebama - Third Annual Workshop, Nantes, France, 17th-18th April 2018



General Comments

The End-Users would like to thank the ExCom and specifically our host SUBATECH for the quality of this 3rd Workshop and the smooth running of the expected agenda.

All EUG members were represented during this second workshop:

- ANDRA (Pierre Henocq)
- COVRA (Erika Neeft)
- ENRESA (Miguel Angel Cuñado)
- NAGRA (Veerle Cloet)
- ONDRAF/NIRAS (Seif Ben Hadj Hassine)
- POSIVA (Marja Vuorio)
- RWM (Amy Shelton)
- SKB (Per Martensson)
- SURAO (Lucie Hausmannova)

Cebama - Third Annual Workshop, Nantes, France, 17th-18th April 2018



General Comments

- The schedule of the 3rd CEBAMA workshop was rather tight, additional time for discussions and exchanges would have been appreciated,
- A proper EUG meeting outside of lunch time would have been more practical,
- The presentation of the posters was an interesting format but the posters were not available anymore after the first day,
- The S+T abstracts were sent two days before the beginning of the workshop, which did not leave a lot of time to read them,
- “Les machines de l’île de Nantes” was a very interesting visit.

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Main Conclusions

- The presented results during the plenary sessions showed the important work that was accomplished since the last workshop and this was highly appreciated,
- Participants from WP1 and WP3 are providing fruitful collaborations, interesting progress was also made in WP2,
- The VTT benchmark was proved very useful,
- The PhD workshop (PSI) and the mobility placements between participants were good initiatives,
- The AG presentation (Lomonosov Moscow State University) was interesting to have during the workshop,
- It would be appreciated if the presentations and the compiled list of the proceedings could be made available to the EUG,

Cebama - Third Annual Workshop, Nantes, France, 17th-18th April 2018



Main Conclusions

- In answer to the needed assessment of the added value of the CEBAMA project to the Safety Case and Performance Assessment in the respective End-Users countries,
 - Based on the compiled results at the end of the CEBAMA project, a specific EUG meeting will be held in order to better evaluate the added value,
 - If possible, an example of previous EC projects (e.g. ReCosy) feedback would be appreciated to understand what is precisely expected from the EUG,
 - Whether it is a direct use of obtained values or a phenomenological description of the interface, the End-Users agree that the accomplished work so far will eventually have its applications.
- The EUG is looking forward to the last and 4th CEBAMA Workshop for which the synthesis of the compiled results is expected and would provide a better generic insight on the accomplished work.

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