ENIGMA Meeting n°4

30/06/2018, Cargese

Reporting aspects

I. General Information

Already reached milestones

N°	Title	Lead Beneficiary	Date
1	Website completion	CNRS	01 Feb 2017
2	Recruitment completion	CNRS	01 Jan 2018
3	Development Plans	ULG	01 Jan 2018
4	State of the art review	CNRS	01 Apr 2018
5	Workshops 1,2,3 held	ULG	01 Apr 2018
6	Experimental plans	CNRS	01 Jul 2018

Please for MS4: state of the art

=> presentations & posters to give / send to Coordinator before end of Summer School

Next milestones

N°	Title	Lead Beneficiary	Date
6	Experimental plans	CNRS	01 Jul 2018
7	Summer school held	CNRS	01 Jul 2018
8	Year 1 report	ULG	01 Sep 2018
9	1st round of experimental campaigns completed	CNRS	01 Sep 2018

Already registered deliverables

WP No	Title	Lead Beneficiary	Est. Del. Date (annex I)	Status
WP7	Supervisory Board of the network	CNRS	28 Feb 2017	Approved
WP7	Consortium Agreement	CNRS	28 Feb 2017	Approved
WP7	Setup of the ENIGMA website	CNRS	31 Mar 2017	Approved
WP1	NEC - Requirement No. 1 (Ethics)	CNRS	30 Jun 2017	Approved
WP1	EPQ - Requirement No. 2 (Ethics)	CNRS	30 Jun 2017	Approved
WP6	1st workshop	ULG	31 Jul 2017	Approved
WP6	2nd Workshop	CNRS	30 Sep 2017	Approved
WP7	Completion of the recruitment process	CNRS	30 Sep 2017	Submitted
WP7	Progress report	CNRS	31 Jan 2018	Submitted
WP6	3rd Workshop	ULG	28 Feb 2018	Submitted
WP6	ENIGMA summer school	CNRS	30 Jun 2018	
WP6	4th Workshop	UNIL	31 Oct 2018	Submitted

Next deliverables

Del Rel N°	Del N°	Title	Lead Beneficiary	Est.Del.Date
D7.8	D32	Mid-term report	CNRS	31 Oct 2018
D3.2	**D7**	**Field test of novel techniques for quantifying water content spatial distributions and temporal fluctuations**	**UNINE**	**31 Dec 2018**
D3.3	**D8**	**Report: Critical assessment of emerging techniques for in situ monitoring of water content and fluxes**	**UCPH**	**31 Dec 2018**
D5.1	**D12**	**Validated algorithms for fully coupled 3-D inversion for tomographic datasets**	**EKUT**	**31 Dec 2018**
D5.2	**D13**	**Report on joint inversion procedures for multiple and disparate datasets (soft and hard data) with realistic subsurface structure reconstruction methods**	**ULG**	**31 Dec 2018**
D6.2	D15	Training Needs Assessment Plan	UCPH	31 Dec 2018
D6.8	D21	Mid-term training progress reports by supervision committee	ULG	31 Dec 2018
D6.9	D22	5th workshop	UNINE	30 June 2019

3 other scientific/technical deliverables in December 2019, then December 2020

II.   Details of the deliverables within the Workpackages

WP2
Explore coupled dynamic processes in highly instrumented sites

- <u>Lead Beneficiary of the WP</u>: Juelich

Del n°	Due Date	Lead Beneficiary	ESRs
D2.1	Month 48: December 2020		
In situ datasets on space and time patterns of fluxes and reactivity in mixing interfaces		**Juelich**	Kevin[1], Guilherme[2], Alvaro[3]
D2.2	Month 48: December 2020		
In situ datasets on flow distributions and transport patterns in fractured media		**Itasca**	Justine[4]
D2.3	Month 48: December 2020		
Report on the added value of in situ experimentation for understanding and quantifying coupled flow, transport and reaction processes in critical areas of the subsurface		**CSIC**	Kevin[1], Guilherme[2], Alvaro[3], Justine[4]

Del n°	Due Date
D2.1 : In situ datasets on space and time patterns of fluxes and reactivity in mixing interfaces	Month 48: December 2020
D2.2 : In situ datasets on flow distributions and transport patterns in fractured media	Month 48: December 2020
D2.3 : Report on the added value of in situ experimentation for understanding and quantifying coupled flow, transport and reaction processes in critical areas of the subsurface	Month 48: December 2020

Lead-Contribution for this Workpackage:		Senior manager
D2.1	**Main person in charge: KEVIN DE VRIENDT[1]** Other contributors: Guilherme Nogueira[2], Alvaro Pardo Alvarez[3]	**Sander Huisman**
D2.2	**Main person in charge: JUSTINE MOLRON[4]** Other contributors: Lara Blazevic[5]	**Caroline Darcel**
D2.3	**Main person in charge: GUILHERME NOGUEIRA[2]** Other contributors: all WP2 ESRs Kevin[1], Guilherme[2], Alvaro[3], Justine[4]	**Jesus Carrera/Marco Dentz**

WP3
Quantify temporal changes in subsurface water content and fluxes distributions

- <u>Lead Beneficiary of the WP</u>: **UCPH**

Del n°	Due Date	Lead Beneficiary	ESRs
D3.1	Month 36 : December 2019		
Validated prototype of portable absolute gravimeter for large scale water content distribution		**MUQUANS**	Anne-Karin[8]
D3.2	**Month 24: December 2018**		
Field test of novel techniques for quantifying water content spatial distributions and temporal fluctuations		**UNINE**	Lara[5], Behzad[6], Joel[7]
D3.3	**Month 24: December 2018**		
Report: Critical assessment of emerging techniques for in situ monitoring of water content and fluxes		**UCPH**	Lara[5], Behzad[6], Joel[7], Anne-Karin[8]

Del n°	Due Date
D3.1 : Validated prototype of portable absolute gravimeter for large scale water content distribution	Month 36 : December 2019
D3.2 : Field test of novel techniques for quantifying water content spatial distributions and temporal fluctuations	**Month 24: December 2018**
D3.3 : Report: Critical assessment of emerging techniques for in situ monitoring of water content and fluxes	**Month 24: December 2018**

Lead-Contribution for this Workpackage:	Senior manager
D3.1 **Main person in charge: ANNE-KARIN COOKE[8]**	**Bruno Desruelle**
D3.2 **Main person in charge: LARA BLAZEVIC[5]** Other contributors: Behzad Pouladi[6], Joel Tirado Conde[7]	**Philip Brunner**
D3.3 **Main person in charge: JOEL TIRADO CONDE[7]** Other contributors: all WP3 ESRs Lara[5], Behzad[6], Joel[7], AnneKarin[8]	**Majken Looms Zibar**

WP4
Create new methods for tracking the transport and reactivity of chemical species in subsurface

- <u>Lead Beneficiary of the WP</u>: **UNIL**

Del n°	Due Date	Lead Beneficiary	ESRs
D4.1	Month 36 : December 2019		
Laboratory facility: Geophysical millifluidic lab for testing geophysical monitoring of transport and reactions		**CNRS**	Alejandro[9], Satoshi[12]
D4.2	Month 48 : December 2020		
In situ datasets that couple tracer experiments and geophysical monitoring available		**JUELICH**	Peleg[10], Richard[11], Veronika[13], Andrea[14]
D4.3	Month 36 : December 2019		
Report on process-based geophysical methodologies to monitore subsurface Processes		**UNIL**	Alejandro[9], Peleg[10], Richard[11] Satoshi[12]

Del n°	Due Date
D4.1 : Laboratory facility: Geophysical millifluidic lab for testing geophysical monitoring of transport and reactions	Month 36 : December 2019
D4.2: In situ datasets that couple tracer experiments and geophysical monitoring available	Month 48 : December 2020
D4.3 : Report on process-based geophysical methodologies to monitor subsurface Processes	Month 36 : December 2019

Lead-Contribution for this Workpackage:	Senior manager
D4.1 **Main person in charge: ALEJANDRO FERNANDEZ VISENTINI[9]** Other contributors: Satoshi Izumoto[12]	**Laurent Longuevergne**
D4.2 **Main person in charge: RICHARD HOFFMANN[11]** Other contributors: Peleg Haruzi[10] , Veronika Rieckh[13] Andrea Palacios[14] and Justine Molron[4]	**Sander Huisman**
D4.3 **Main person in charge: PELEG HARUZI[10]** Other contributors: all WP4 ESRs Alejandro[9], Peleg[10], Richard[11], Satoshi[12],	**Niklas Linde**

WP5
Design inverse modelling strategies for dynamic processes in complex subsurface structures

- <u>Lead Beneficiary of the WP</u>: **EKUT**

Del n°	Due Date	Lead Beneficiary	ESRs
D5.1	**Month 24: December 2018**		
Validated algorithms for fully coupled 3-D inversion		**EKUT**	Veronika[13] Jorge[15]
D5.2	**Month 24: December 2018**		
Report on joint inversion procedures for multiple and disparate datasets (soft and hard data) with realistic subsurface structure reconstruction methods		**ULG**	Veronika[13] Andrea[14] Jorge[15]

Del n°	Due Date
D5.1: Validated algorithms for fully coupled 3-D inversion	**Month 24: December 2018**
D5.2: Report on joint inversion procedures for multiple and disparate datasets (soft and hard data) with realistic subsurface structure reconstruction methods	**Month 24: December 2018**

Lead-Contribution for this Workpackage:		**Senior manager**
D5.1	**Main person in charge: VERONIKA RIEKCH[13]** Other contributors: Jorge Lopez Alvis[15]	**Olaf A. Cirpka**
D5.2	**Main person in charge: ANDREA PALACIOS[14]** Other contributors: all WP5 ESRs Veronika Rieckh[13], Jorge Lopez Alvis[15]	**Frederic Nguyen**

III. Communication & Dissemination

What was proposed in the project :

- Participate to public engagement activities to explain the scientific results (videos or simple schemes)

- Participate to relevant public events to expose scientific results and to understand public requirements such as 'The Researchers Night ' in Belgium, 'The Science Festival' in France, 'Fortbildungsverbund Boden und Altlasten' in Germany

Let me know when participation to conferences or events ! Send me your posters/videos... !

Public engagement and outreach to the policy community are deliverables !

Thank you for your attention !