

ChEESE

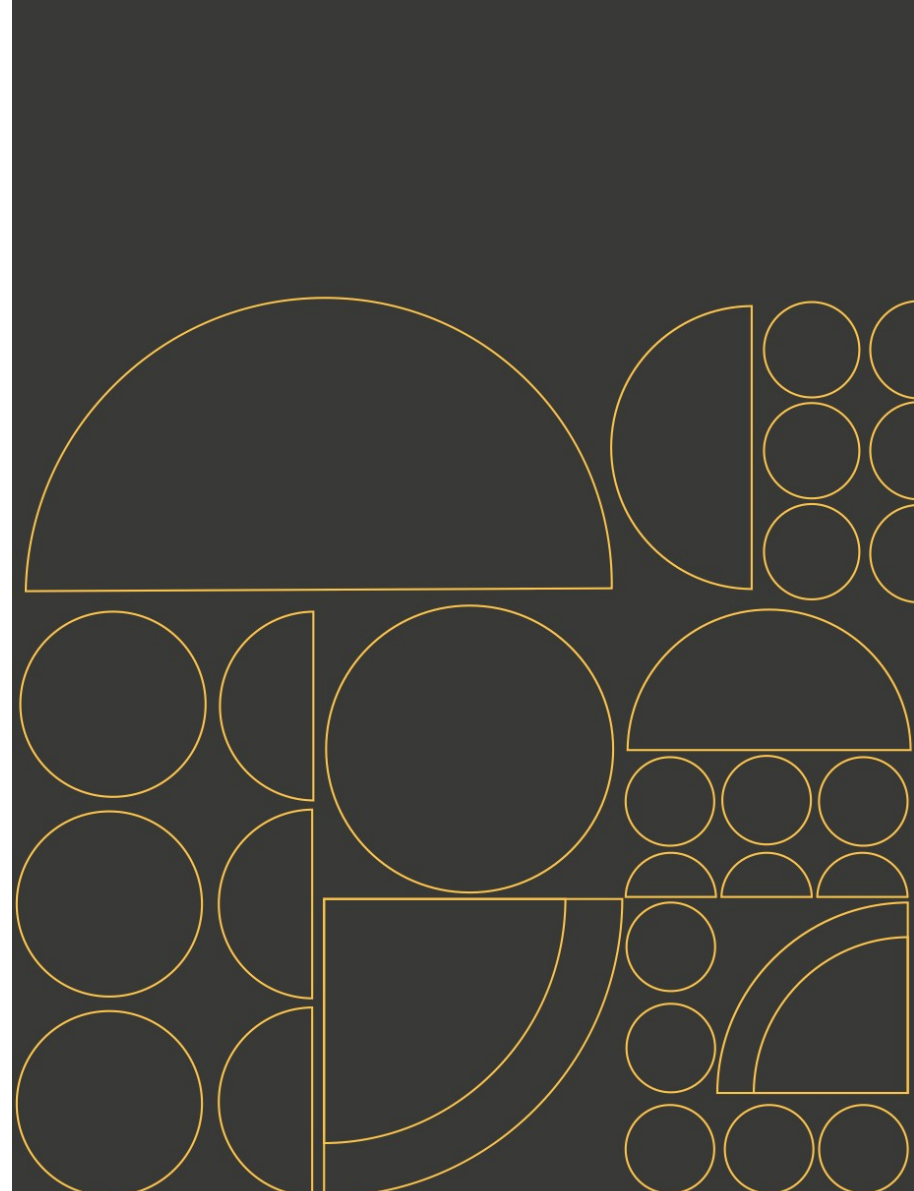
Work Package 5: Farming Pilot Demonstrators

Zoom meeting,
10 May 2023

Vadim Monteiller
CNRS



Project funded by EuroHPC under the grant agreement No 101093038.



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- A decorative vertical bar on the left side of the slide, featuring a dark gray background with yellow geometric patterns including circles, semi-circles, and arcs.
- Status
 - Code presentation
 - Other



Task 5.1

Objective : Implement novel features and coupling mechanisms in flagship codes.

Timeline : Month 1 → Month 24 (December 2024)

Deliverable : New version release of flagship codes

Code version releases with the new functionalities available in the ChEERE-2P Zenodo repository



Task 5.1 : Novel features (physics) in flagship codes

Multiphysics

- coupling of codes
- new physical models

Multisource

- new sources for accurate representation
- forcing term

Multiscale

- capture physical effects from local to global scales



Flagship codes

No	Code	Area	Level	Lead	Presentation	Roadmap
1	SeisSol	CS, T	1	LMU		
2	SPECFEM3D	CS	1	CNRS	12 April 2023	x
3	ExaHyPE	CS, T	2	TUM	12 April 2023	
4	Tandem	CS	2	LMU		
5	xSHEELS	MHD	1	CNRS	10 May 2023	X
6	HySEA	T	2	UMA	10 May 2023	
7	FALL3D	V	2	CSIC	12 April 2023	
8	OpenPDAC	V	2	INGV		
9	LaMEM	GD	1	UM	10 May 2023	
10	pTatin3D	GD	1	SU		X
11	Elmer/Ice	GL	2	CSC		X

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Roadmap / flagship code

- objectives
 - validation
 - test cases
 - documentation
 - timeline
-
- Upload to :

<https://saco.csic.es/index.php/s/5paFC4EyEfeKy7w?path=%2FWP5>



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- Next meeting June 14, 10am
 - presentation on flagship code :

Seisol, Tandem, Ptatin3D,
OpenPDAC, Elmer/Ice





Flagship codes

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11	Elmer/Ice	GL	2	CSC

CS : computational seismology, T: Tsunami, MHD: Magnetohydrodynamics
V : Volcanology, GD : Geodynamics, GL Glacier hazards.

