

ChEESE
6th PEC
Online, September 14th, 2023, 10.00h

List of Attendees

PC	A. Folch (AF)
WP1	MJ Garcia (MJG)
WP2	P. Lanucara (PL)
WP3	E. Raffin (ER)
WP4	Jose Gracia (JG) replacing C. Niethammer (CN)
WP5	V. Monteiller (VM)
WP6	T. Esposti-Ongaro (TEO)
WP7	Varvara Vedia (VV) replacing MP Baghetti (MPB)
PIM	J. Farnos (JF)

Absent members: C. Niethammer (CN), E. Raffin (ER) MP Baghetti (MPB)

MINUTES

General Items:

- Next PSB: 20th of September (collect WP progress information by Monday 18th)
- Collaboration agreement with CASTIEL 2 (COLA)
- Update on CoE Advisory Board (CAB), for Castiel 2:

From the CoE side we have the following representatives and deputies (all 7 can be contacted via the email address "castiel2-cab-coes@lists.projects.hlr.de"):

From Topic 1: Niclas Jansson (CEEC) + Marisa Zanotti (SPACE) - deputy: Luisa Neri (MAX 3)

From Topic 2: Rossen Apostolov (BioExcel 3) + Dennis Hoppe (HIDALGO 2) - deputies: Joachim Biercamp (Esiwace 3) + Tomaso Esposti Ongaro (Cheese-2P)

From the side of the National Competence Centres - NCCs – in EuroCC 2, we have:

Region 1 : Apostolos Vasileiadis (NCC Sweden) - deputy Morris Riedel (NCC Iceland)

Region 2 : Mariusz Sterzel (NCC Poland) - deputy Carmen-Elena Cirnu (NCC Romania)

Region 3 : Sanja Nikolic (NCC Montenegro) - deputy Ilias Hatzakis (NCC Greece)

Region 4 : Tomas Karasek (NCC Czech Republic) - deputy Pavel Tomsic (NCC Slovenia)

WP1. Project Management

MJG

- GA amendment has been finalized
- CA Final version was sent September 6th to be signed
- First review: 19.02.2024 to the 23.02.2024 in Luxemburg

WP2. Exascale technical challenges in flagship codes

PL: T2.1 and T2.2 on-going (with some delay due to vacation period)

PL: T2.1: some code already instrumented and ready to run (XSHELLS, ELMER). 3 codes ready to proceed with instrumentation (FALL3D, ExaHyPE, SeisSol). Double check the rest of the codes soon.

PL: T2.2 ready for next steps (CINECA git repo for shared development soon).

WP3. Co-design with European HPC vendors and technologies

ER: T3.1: A webinar on mini-app is planned Monday 18 Sept. between 10:00 and 11:30, it is open to WP3 and WP2 partners.

ER: New mini-app (July 2023):

- mini-xSHELLS, under test at BULL

- mini-pTatin3

WP4. Simulation ecosystem

CN: Not much work over vacation time

CN: T4.1 Will shortly ask for update of workflow descriptions of SCs for preparing the first Deliverable 4.1 if not done yet.

CN: As access to systems gets granted going to start workflow analysis - going to check which tools are available

WP5. Farming Pilot Demonstrators

VM : Work on the 2 tasks T5.1 and T5.2 is in progress. At the last meeting (13 September 2023) we discussed the TRLs for the PDs. The next meeting is scheduled for 11 October. We are going to see how we can organize ourselves to apply to EuroHPC for the allocation of computing hours.

WP6. SCs and service enabling using EuroHPC infrastructures (WP6 starts M13)

TEO: Nothing to report after the summer break, except the appointment of a ChESEE-2p representative (TEO) to the Castiel-2 Competence Centre and CoE Advisory Board (CAB) (reported by WP1).

TEO: WP6 Fall Agenda:

- T6.1-6.2-6.3. Initial mapping of Simulation Cases needs (obj: securing HPC resources well in advance)
- T6.1. Start thinking about "Trials" methodology (and revise TRL scale?).
- T6.4. Survey of Urgent Computing preparedness of HPC Centers (e.g., UC access mode), and potentially Competence Centres (also through Castiel-2?). Potentially start a dialogue with DG-ECHO.

WP7. Dissemination, outreach and capacity building

- Deliverable of the Training plan already submitted and available on the project wiki: https://cheese2.eu/wiki/images/0/0b/D7.4_Final.pdf
- The training calendar is iterative and can be changed and modified. We encourage to share the activities you'd like to organise, which will be included in the calendar.
- Image of the Training plan Calendar (see below):

Date	Theme	Title/Topic	Type of event/	Location
24 March 2023		ChEESE training event on EOSC-synergy tools for SQaaS	Internal Webinar	Online
16 June 2023	Programming interfaces and languages	Webinar: Porting to GPU a Fortran code using intrinsic parallelism	Webinar	Online
28 June 2023		Webinar: OpenCL GPU Programming for HPC Applications	Webinar	Online
7 July 2023		Kokko: A portable programming library for the exascale era	Webinar	Online
9-12 May 2023	HPC for Geosciences Series	2023 High-Performance Seismology (HPS) CyberTraining	Training	Online
Q4 2023		Computational volcanology	Training	TBC (Online or at BSC facilities)
Q2 2024		Computational geodynamics	Training	In person (Mainz, Germany)
Q2 2024		Tsunami and Meteo-tsunami modelling	Training	TBC (online or at UMA facilities)
Q3/Q4 2024		Computational seismology I	Training	Online
Q3/Q4 2025		Computational seismology II	Training	Online
Q2/2024	Artificial Intelligence	Artificial Intelligence and Machine Learning for Geosciences	Training	In person (BSC)

Action Items

Who	What