ESM Briefing

5 March 2021, 10:00–12:00, online

Agenda/Overview (JM, MLB)

1. Recap: How did we get here?
2. Status BMBF proposal
3. From here to the November workshop

4. Discussion

How did we get here?

- Things have not gone well since the cancelled workshop in March 2020.

- Previous workshops identified some highly contested issues, which we (the steering group) felt could not be resolved by virtual meetings.

- Personal overload during pandemic, felt by many.

- $\rightarrow$ Little progress, hardly any communication.

- Things will improve!

Status BMBF proposal (1)

- One thing we did manage to do: Write pre-proposal to BMBF/PT-DLR, to support the nucleus of a national ESM support team (submitted July 2020).

- Things are difficult at BMBF, too. But PT-DLR recently came back to us, inviting us to submit a formal proposal. Funding level about €1.8 million for nominally three years.

- Two elements:
  - Overall coordination of national ESM strategy (1 experienced scientist as coordinator, 1 team assistant).

  - Four software specialists, who through collaboration with model developers and users create/re-write code infrastructure elements to bring them to modern standards.
  - Focus areas: HPC, workflows, modularisation/scalable coupling of components, scalable diagnostics.
  - We envision that work will progress through "sprints" – subprojects over six to nine months, bringing rapid visible progress; how subprojects are chosen: TBD.

- This approach requires serious intellectual and resource commitment from model developers. The bulk of the development work will still happen at the modelling centres.

Structure

Steering committee: Marotzke, Attinger, Jones, Jung, Schulz, Tegen

and extended steering comm.: Biercamp, Feulner, Kollet, Potthast, Rapp, Schmidt

National ESM Support Team
1 Coordinator (from September 2021)
1 Team assistant (from September 2021)
4 Software / IT Expert (from January 2022)

ESM Strategy Community   60 – 80 individuals

Status BMBF proposal (2)

- Unanimous in steering committee: DKK should submit the proposal and should be the employer of the national ESM support team members.
  - Neutral; no co-funding required (unlike federally supported institutions).

- Open and pragmatic: Where would software specialists physically sit?
  - They may have to be close to the developers/users.
  - The type of person we seek is in short supply; not having to move may well be an advantage for us.

- Proposal submission by late April seems realistic.

- Coordinator ideally to start in September 2021; software specialists in early 2022.

Indicative Budget

€1.8 million for 3 (3.3) years

1 coordinator à 95,000 € p. a. for **3.3** years	332.500
1 team assistant à 30,000 € p.a. for 3 years	90.000
4 software specialists à 80,000 € p. a. for 3 years	960.000
Workshops / travel expenses à 70,000 € p. a. for 3 years	210.000
Total	1.592.500
Total with overhead (20%)	**1.911.000** ??

From here to the 15/16 November workshop (1)

- Recap: We have 41 contributions of model components that should have been presented today.

- Suggest instead:
  - Contributors upload recorded presentations over the April/May timeframe, to a password-protected website (location TBD).
  - Where appropriate, presentations could identify HPC/workflow/modularisation/diagnostics contributions & requirements.
  - We hold an online discussion forum about these presentations around June/early July.
  - Clarification/analysis/discussion, no decisions.

- This should serve as an effective preparation for the November workshop.
  - Using online formats for preparation is something we have learned during the pandemic.

- Contributing to the analysis of presentations will be an important task of the infrastructure working group (WGII, Biercamp, Kollet)

From here to the 15/16 November workshop (2)

- The governance working group (WG3, Potthast, Rapp) should be re-activated immediately.
- Two tasks:
  - Develop proposal for procedure for selecting sub-projects performed by ESM support team.
  - Re-open consideration of the governance of the entire ESM strategy.

- Possible goal for November workshop: Agree on procedure for selecting sub-projects for software sprints.
  - Premature trying to select the sub-projects themselves.

Timeline

2021											2022	2023	2024
	März	Apr	Mai	Jun	Jul	Aug	Sept	Okt	Nov	Dez			

proposal

approval BMBF

Beginning Coordinator	**WS 2 days**	Beginning software specialists

Upload Presentations	Presentations online	Online **WS** 1 day

project period