

FSD Theory Project Board meeting 1 29 JUNE 2021

MINUTES

Date:	29 JUNE 2021
Time:	14:00 – 17:30 CEST
Venue:	By videoconference (Zoom): Meeting ID: 859 2192 9859 Passcode: 806149
Files (IDM & INDICO):	Meeting Page: https://indico.euro-fusion.org/event/1099/ PEP WPAC: http://idm.euro-fusion.org/?uid=2NKGP7 PEP WPENR: http://idm.euro-fusion.org/?uid=2PBJ7R E-TASC SB materials: https://indico.euro-fusion.org/event/1110/
Version	1.0

Invited Participants (Present in this PB Meeting)

Chair	Tony Donné (EUROfusion Programme Manager)
CEA	Frédéric Imbeaux
IPPLM	Michal Poradzinski
IST	Carlos Silva
EPFL	Jonathan Graves
MPG	Eric Sonnendrücker
DIFFER	M.J. Pueschel
CIEMAT	Edilberto Sánchez
IPP.CR	Eva Macusova
VR	Dmitriy Yadkin
Programme Management Unit	Volker Naulin (FSD Head / E-TASC SB Chair) Emilia Genangeli (Admin. Head) Fabio Vinagre (PMO Head) Denis Kalupin (FSD CO Theory and Modelling) Sara Moradi (FSD CO Tokamak Exploitation) Joao Figueiredo (FSD CO Enhancements) Richard Kamendje (IC)
E-TASC SB	Frank Jenko
ITER IO	Simon Pinches

Minutes

INTRODUCTION	
1	<p>Welcome to the Theory Project Board meeting and round the table introduction of meeting participants</p> <p>T. Donn� introduces the agenda. There were no objections to the agenda.</p> <p>The members of the Project Board, the PMU, the E-TASC SB Co-Chair and the ITER IO representative have introduced themselves.</p>
2	<p>Project Board's duties and responsibilities (ToR)</p> <p>V. Naulin presents the ToR of the Project Board.</p>
Work Package Advanced Computing	
3	<p>WP organization & Project Execution Plan (PEP)</p> <p>The E-TASC Scientific Board Co-Chair, Frank Jenko, has presented the overview on WPAC activities.</p> <p>Discussions:</p> <p>Q: The PB have asked to clarify the possibility of using the ACH resources by other WPs and ENR projects</p> <p>R: Due to the budget cuts applied in 2021 and 2022 to ACH work programme tasks from other WPs can be picked up from 2023 onwards. The requests on the ACH support shall be submitted a year before and will be evaluated by the E-TASC SB</p> <p>Q: Does the TSVV work programme 2021-2022 presented in annexes to the PEP include possible corrections due to ACH task selection recently done by the E-TASC SB?</p> <p>R: Nearly all task labeled by TSVV PIs as urgent for 2021-2022 have received the ACH support, therefore the impact is expected to be minimal. Nonetheless PMU will approach TSVV PIs for possible revisions and will present them to the following Theory PB.</p> <p>Q: Where it is possible to find the detailed tasks approved for ACHs?</p> <p>R: At the E-TASC SB page (https://indico.euro-fusion.org/event/1110/). The access is given to all PB members</p> <p>Q: Current state of THRUST activities</p> <p>R: All Thrusts have already started the exchange between TSVVs and WPs. Nonetheless the exact organisation of activities is up to the Thrust Facilitator, therefore some differences might be in management of thrusts.</p> <p>Status of HPC and Gateway</p> <p>Richard Kamendje has presented the status of the current HPC and the Gateway (both implemented as a partitions of MARCONI HPC cluster in Bologna)</p>



Discussions:

Q: The PB has asked to clarify the use of the Gateway as a facility for deployment of EUROfusion standard software

R: The E-TASC SB will support the use of the Gateway for TSVV code releases and as a host of machine data base in IMAS format for V&V

A1: Action on WPAC to establish and send Instructions to the TSVV PIs on data and code management procedures including location of hosting

Financial Overview

The present expectation is a total budget for FP9 (costs) of 749 M€ including 200 M€ UK contribution. Emilia Genangeli has presented the shares of WPAC and WPENR in the FSD budget.

Discussions:

Q: The PB asked to clarify the small mission budget allocated to TSVV/ACH projects

R: Following the budget cut EUROfusion management decided to keep the resources for missions to a minimum level.

For missions by TSVV project members linked directly to one of the main WPs, the travel funds of the relevant WP shall be used.

A small number of internal technical meetings can be supported through the TSVV/ACH travel budget, but only for meetings endorsed by the E-TASC SB. Also, all projects are strongly encouraged to use remote communication tools for such meetings.

A2: PMU Admin shall investigate the possibility to increase the travel funds if possible and propose it to the next PB as change request.

A3: PMU shall interact with the TSVV and ACH PIs to allocate the present mission budget at least for 2021

Project Change Requests (PCRs)

None

Approval of PEP

Discussions:

Q: IMASification of experimental data: In order to test and validate the codes that will be delivered by TSVV it is necessary to have the data in compatible (IMAS) format. This activity was started in FP8 involving machine representatives, WPCD and support by CPT group (most of team is now included in ACH-IPPLM). In FP9 no formal continuation of this activity is implemented. The PB asked the PMU to propose a solution, which will involve collaboration of machine data experts (under WPTE) and ACH-IPPLM group.

A4: Potential absence of IMASified data must be included as a risk in WPAC PEP



A5: PMU & E-TASC SB shall propose the collaborative structure that would involve WPTE and ACH to insure that by 2024 experimental data required by TSVVs are available for all EUROfusion machines. (data mapping and data access tools)

Q: Adjustment of TSVV work programme 2021-2022 (mentioned earlier) following the approved ACH tasks.

A6: PMU shall approach TSVV PIs to check if corrections to the work programme 2021-2022 are needed, the summary shall be presented to the following PB as change request

Q: Fig 2 in the PEP is outdated and does not include Theory PB.

A7: Interactions between the E-TASC SB and the Theory PB shall be clearly identified in updated PEP.

The Project Board provisionally agreed to the approval of the PEP for WPAC pending the outcome of actions A4 and A6.

Work Package Enabling Research: Theory&Modelling Projects, Inertial Fusion Energy Projects

4 WP organization & Project Execution Plan (PEP)

D. Kalupin provided an overview of the Enabling Research Projects in the Areas of Theory&Modelling and Inertial Fusion Energy, the stakeholder roles and responsibilities, and the project’s life cycle. Principal Investigators (PIs) are responsible for the organization and implementation of activities within their projects, following the recommendation of the ENR Scientific Board (ENR-SB) and after approval of the General Assembly.

Originally foreseen for the period 2021-23, the projects should start on July 1st 2021 (at latest), and the end date will be adjusted accordingly, keeping the total duration unchanged.

Discussion:

None.

Financial Overview

Was presented by E. Genangeli in the previous section.

Project Change Requests (PCRs)

None.

Approval of PEP



The Project Board approved the PEP for the ENR WP.

AOB & Closing

Next PB-Theory meeting will be organized on **21st of October 2021, at 9:00-13:00 CET.**

The meeting materials will be available on INDICO at <https://indico.euro-fusion.org/event/1192/>

The meeting was adjourned

List of Actions

No.	Resp. Person(s)	Description	Status
A1	Denis Kalupin, Frank Jenko	Action on WPAC to establish and send Instructions to the TSVV PIs on data and code management procedures including location of hosting	
A2	Emilia Genangeli	PMU Admin shall investigate the possibility to increase the travel funds if possible and propose it to the next PB as change request.	
A3	Denis Kalupin	PMU shall interact with the TSVV and ACH PIs to allocate the present mission budget at least for 2021	IN PROGRESS
A4	Denis Kalupin	Potential absence of IMASified data must be included as a risk in WPAC PEP	DONE
A5	Denis Kalupin, Frank Jenko	PMU & E-TASC SB shall propose the collaborative structure that would involve WPTE and ACH to insure that by 2024 experimental data required by TSVVs are available for all EUROfusion machines. (data mapping and data access tolls)	
A6	Denis Kalupin	PMU shall approach TSVV PIs to check if corrections to the work programme 2021-2022 are needed, the summary shall be presented to the following PB as change request	IN PROGRESS
A7	Denis Kalupin	Interactions between the E-TASC SB and the Theory PB shall be clearly identified in updated PEP.	DONE