

EUROPEAN  
PLASMA RESEARCH  
ACCELERATOR WITH  
EXCELLENCE IN  
APPLICATIONS



# EuPRAXIA 16<sup>th</sup> Steering Committee Meeting – 17<sup>th</sup> Sep 2019

Elba, Italy



This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 653782.

- 21:30 Welcome and approval of agenda (5 min.)
- 21:35 Approval of minutes from 15th Steering Meeting (5 min.)
- 21:40 Action items from 15th Steering Meeting (10 min.)
- 21:50 Discussion of EuPRAXIA CDR draft and next steps to submission (R. Assmann) (30 min.)
- 22:20 Discussion on future organisation and ESFRI Roadmap (R. Assmann + roundtable) (40 min.)
- 23:00 Update on EuPRAXIA Final Event (M. Weikum) (15 min.)
- 23:15 AOB (15 min.)
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- 1) Contact potential international partners not linked to EuPRAXIA (Indian/Korean). (Action: **R. Pattathil**)
- 2) Collect EuPRAXIA high impact publications (Action: **R. Torres**)
- 3) Send out map of associated facilities to SC/partners and ask for support letters. (Action: **M. Weikum**).
- 4) Please send facility pictures of laboratories to [ricardo.torres@cockcroft.ac.uk](mailto:ricardo.torres@cockcroft.ac.uk) for the final brochure (Action: **all**).
- 5) Send high quality 3D images of plasma accelerators to [andreas.walker@desy.de](mailto:andreas.walker@desy.de) (Action: **A. Walker, all**).

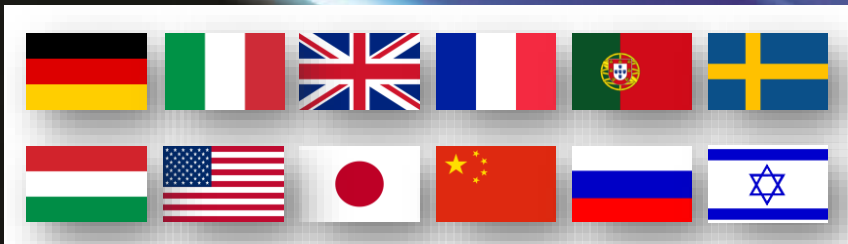
- 6) Please send names of all persons who contributed to EuPRAXIA to maria.weikum@desy.de so that they can be included in the CDR author list (Action: **all**).
- 7) Provide a break-down of the budget not only by country but also by technology, major components and site for the CDR. (Action: **A. Walker**).
- 8) Send out proposals for final event invitation to SC meeting (Action: **M.Weikum**).
- 9) Add section on large European computing facilities / developments as well as on data management & sharing to CDR (Action: **M. Weikum**).

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# Discussion on CDR Draft and Next Steps



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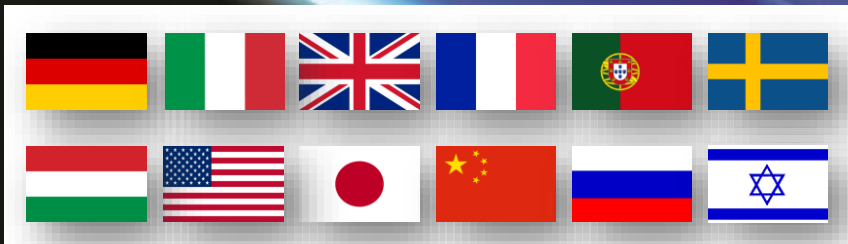
- PDF Part I and II for distribution all consortium: **Sep 18**
- PDF Part I and II for proof-reading: **Sep 23**
- Executive summary frozen (except details): **Sep 23**
- PDF Part III - V for proof-reading: **Sep 30**
- Submission to EU: **Oct 23**
- Publication EuPRAXIA CDR: **Dec 31**

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# Discussion on Future Organisation and ESFRI Roadmap



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	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	...	2065	2066
<b>Project Phases</b>	Conceptual Design Phase		Technical Design Phase (Jan 2020 – Dec 2025)						Implementation & Construction (Jan 2026 – Dec 2029)				Operation (Jan 2030 – Dec 2065)			Decommissioning (Jan – Dec 2066)	



Horizon 2020 Design Study	"Valley of death" ?	Horizon Europe Preparatory Phase	Horizon Europe / Structural Funds / National Funding ?
3 Mio. € & in-kind contributions	???	Up to 4 Mio. € (& in-kind contribution)	>200 Mio. € from various sources

**SOME NEWS:**  
**ESFRI Roadmap 2021 Application:**  
**5th May 2020**

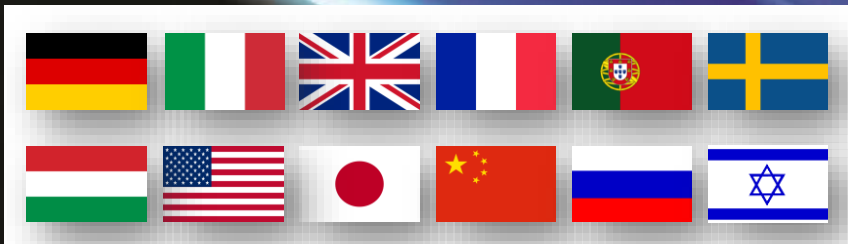
(Info Day in Brussels: 25th Sep 2019)

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# Update on EuPRAXIA Final Event



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- Location: DESY, Hamburg (Germany)
- Starting: 16<sup>th</sup> Oct 2019, 1pm
- Ending: 18<sup>th</sup> Oct 2019, 12pm
- Collaboration Dinner: evening of 17<sup>th</sup> Oct 2019
- Key topics: lessons learned from the EuPRAXIA design study, next steps for the project





16.10.2019	
13:00-14:00	Lunch + Registration (60 min.)
14:00-15:30	Welcome and practical information (R. Assmann, 5 min.)
	Four years EuPRAXIA – lessons learned (R. Assmann, 25 min.)
	Simulations and theoretical studies (P.A.P. Nghiem, J. Vieira, 15 min. each, incl. questions)
	Plasma accelerator structures (B. Cros, Z. Najmudin, 15 min. each, incl. questions)
15:30-16:00	Coffee Break
16:00-18:00	Laser design and optimisation (L. Gizzi, F. Mathieu, 15 min. each, incl. questions)
	RF system and beamlines (C. Vaccarezza, A. Chance, 15 min. each, incl. questions)
	FEL pilot application (M.-E. Couprie, G. Dattoli, 15 min. each, incl. questions)
	High-energy physics and other pilot applications (A. Specka, R. Walczak, 15 min. each, incl. questions)

17.10.2019	
9:00-9:30	Coffee discussions
9:30-11:00	Electron-beam driven plasma accelerator structures (J. Osterhoff, M. Ferrario, 15 min. each, incl. questions)
	Use of other novel technologies (U. Dorda, G. Xia, 15 min. each, incl. questions)
	FEL application prototyping (A. Maier, V. Malka, 15 min. each, incl. questions)
11:00 -11:10	Group Photo
11:10-11:30	Coffee Break
11:30-13:00	Accelerator prototyping and test experiments (R. Pattathil, A. Mostacci, 15 min. each, incl. questions)
	Alternative injection mechanisms and radiation generation (D. Jaroszynski, Z. Sheng, 15 min. each, incl. questions)
	Hybrid laser-electron-beam driven plasma acceleration (B. Hidding, A. Martinez de la Ossa, 15 min. each, incl. questions)
13:00-14:30	Lunch
14:30-16:00	Electron beam diagnostics (A. Cianchi, N. Delerue, 15 min. each, incl. questions)
	Dissemination of the CDR and wider EuPRAXIA results (C. Welsch, 25 min.) <b>Keynote talk? (35 min.)</b>
16:00 – 16:30	Coffee Break
16:30-18:00	Views from industry (one of industry partners, 20 min.)
	Impressions from the Scientific Advisory Committee (C. Biscari, 30 min.)
	Roundtable discussion – Lessons learned (40 min.)
From 19:30	Social Dinner

	<b>18.10.2019</b>
<b>9:30-10:00</b>	Coffee discussions
<b>10:00-12:00</b>	ESFRI Roadmap Application (F. Brottier, 30 min.)
	Next Steps for EuPRAXIA (25 min + 20 min. discussion)
	Final Remarks (15 min.)

## Key Questions:

- Are you happy and available to speak in the proposed time slot?
- Do you have any proposals for a keynote talk?
- Do you have any proposals for other agenda items to implement?

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- Update on the EU budget for EuPRAXIA (T. Minniberger)
- Update on EuPRAXIA special edition in Instruments journal (R. Torres)