EUROPEAN PLASMA RESEARCH ACCELERATOR WITH EXCELLENCE IN APPLICATIONS

EuPRAXIA Preparatory Phase

Status of EuPRAXIA_PP

P. Campana (INFN-LNF)

GM meeting, Elba, September 21-25, 2026

Funded by the European Union

This project has received funding from the European Union's Horizon Europe research and innovation programme under grant agreement No. 101079773. It is supported by in-kind contributions by its partners and by additional funding from UK and Switzerland.

Updates since last GM meeting at ELI (Oct. 2025)

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- Early Implementation grant (EIP) approved (February 2026) !

- Intense set of EuPRAXIA_PP meetings

• **SC**	Mar 2026
• **BOFS**	Mar 2026 + Oct. 2026
• **Brussels showcase event**	Apr 2026
• **Mini-workshop on UK contribution to 2nd site**	May 2026
• **Pre-CB meeting, to discuss draft of MoU**	Sep 2026
• **STAB**	foreseen in Oct 2026
• **General Meeting(s)**	this week in Elba

- **Implementation Group** fully operational, to help sites in providing support through technical discussions, proposals on contributions, and to prepare the calls of Horizon INFRA DEV/TECH which resulted in 2 applications: **STRIDE** (lead by ELI), devoted to ELI TDR, and **EuPLASMAR** (lead by IPT), devoted to plasma accelerator applications.
  8 meetings between Feb and Jun 2026 !

- This is our last meeting of the EuPRAXIA PP era ! **But not the last one of EuPRAXIA !**

Status of Milestones & Deliverables

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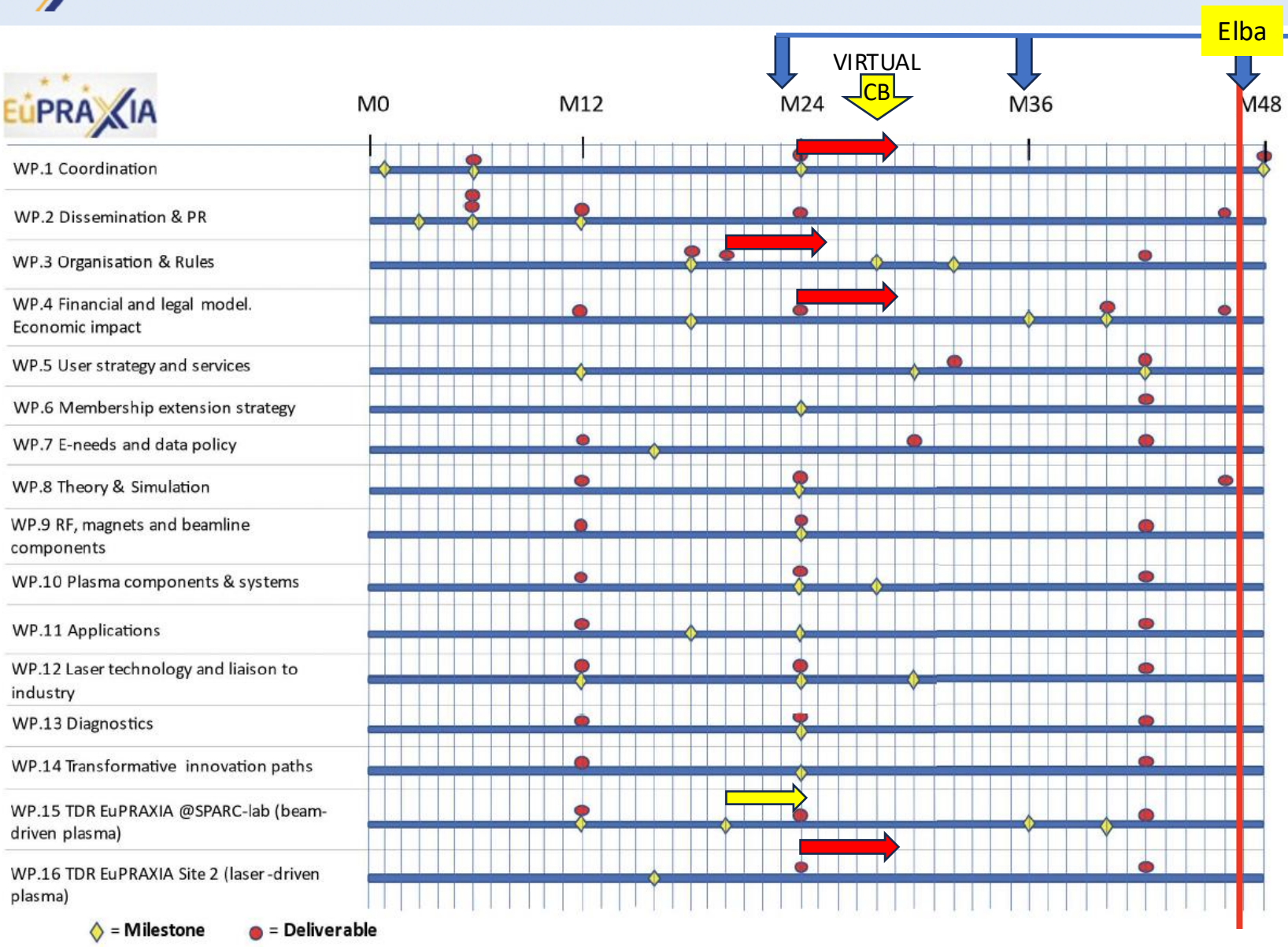

All milestones and deliverables linked to 2nd site choice, **delayed but completed**

All milestones and deliverables so far on track

Technical WPs

Concluding the long journey of ML & DL

Funded by the European Union

- **ML & DL due by October 2026**

D 4.4 Report (R) on final EuPRAXIA financial and legal model incl. RI governance and management
This report will resume the long work done in these years to identify the best financial and legal models that fit for the purpose of EuPRAXIA implementation.
One cornerstone of this work will be the agreement of the Collaboration Board on the Memorandum of Understanding, that details the operation of the Collaboration in the next years, during implementation of RI and for the achievement of the legal framework

D 1.3 EuPRAXIA-RI Implementation Plan
M 1.4 Agreement on legal and financial packages
In these 4 years, for various reasons, we were not yet able to completely define the implementation plan for the distributed RI, although definition of Sites are, at different levels, advanced.
We consider D1.3 and M1.4 partially achieved.
It will be the task of the Early Implementation Grant (Oct. 1, 2026-Sep. 30, 2030) to complete and fully achieve the implementation of the distributed RI and the legal framework (likely an AISBL). New elements as costs, impact, user-oriented management, will also be part of the plan.

Ending the PP grant: next steps

- **Reporting due by Dec. 31, 2026**

WPs will be asked to prepare the final reports of the grant (as we did for the RP2 one in July 2025)
Institute will provide reporting on spending.

- **One-day meeting (9-16) with PO EU officer**

Expected to be held on January 15 or 18.
As in July 2027, WP leaders or representatives are invited to attend for a short summary presentation

Showcase event in Brussels

Leading representatives from European institutions - from the European Commission to the European Strategy Forum on Research Infrastructures (ESFRI) - together with stakeholders from research, industry, and funding agencies gathered on 23 April in Brussels, at the Foundation University, for the EuPRAXIA Showcase Event 2026. ambitious research infrastructure projects.

The goal of the meeting, just half-way in the path to Landmark (5 years), organized by INFN and the Uni. Liverpool, aimed to show the multiple and coherent approach of EuPRAXIA in terms of collaboration and for search for funding ("ecosystem") and to strengthen collaboration, promote innovation in accelerator technologies, and discuss new funding opportunities.

To our understanding "EuPRAXIA approach" is now considered extremely good with ESFRI.

The EuPRAXIA RI ecosystem

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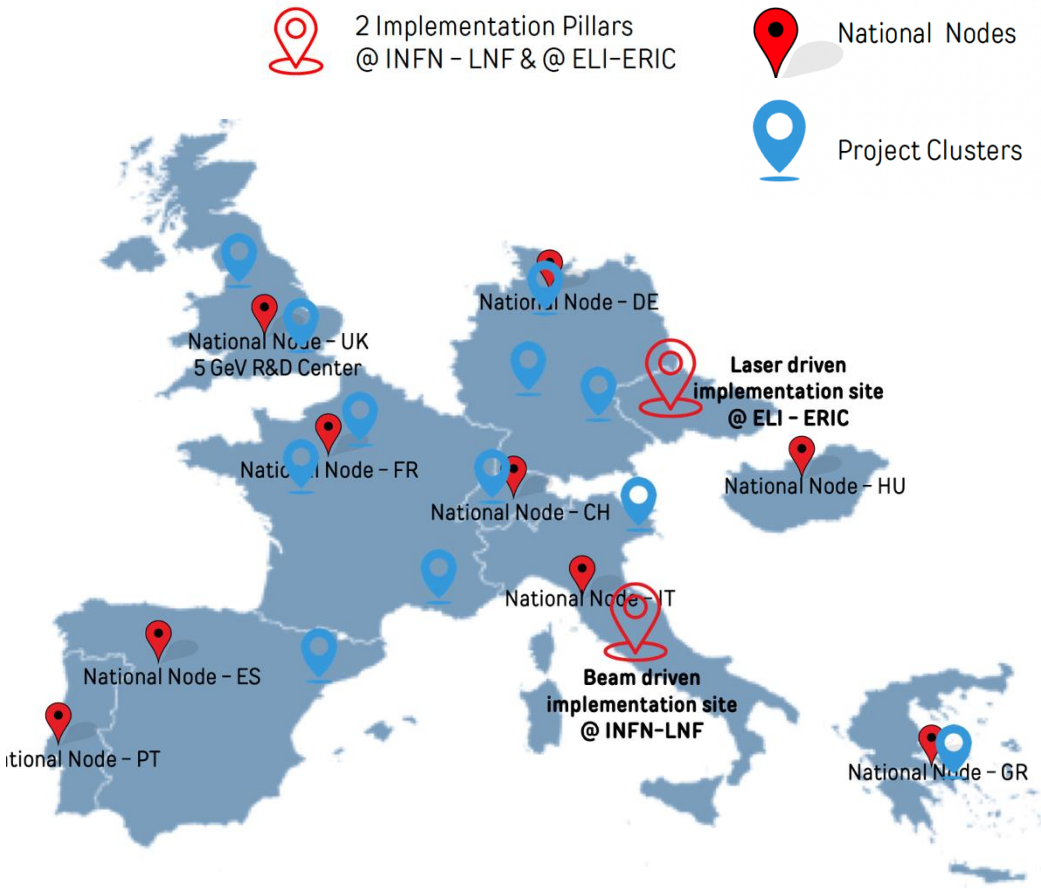
EuPRAXIA@SPARC_LAB	PWFA-pillar, funded by Ministry and ERDF Lazio Region
EuPRAXIA@ELI-ERIC	LWFA-pillar, supported by ELI-ERIC
EuPRAXIA Advance Photon Sources - EuAPS	R&D funded by Recovery Funds, IT
EuPRAXIA Doctoral Network	EU grant, 2023
EuPRAXIA Preparatory Phase	EU grant, 2022, ESFRI PP
EuPRAXIA Early Implementation Phase	EU grant, 2025, ESFRI Implem.
PACRI	EU grant, 2024, R&D on plasma, laser and RF technologies
EuPLASMAR	Applications to 2026 round of INFRA DEV/TECH grants
STRIDE	
EuPRAXIA NOVA	Application to 2026 round of DN grants



10 European countries involved

EuPRAXIA collaboration has diversified its portfolio of activities through different grants and funding lines (Ministry, ERIC, EU, Agencies, Uni & Labs, regional, …). Around **150 ME** raised so far + in-kind contributions

EuPRAXIA @ SPARC_LAB Socio-Economic Impact

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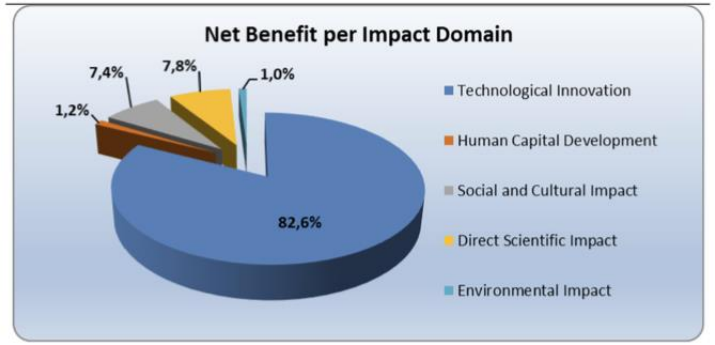
Considering the socio-economic effect of the mere **construction** of **EuPRAXIA@SPARC_LAB** the main quantitative results are:

Indicator	Estimated Value
Total investment	€133.65 million
Investment within national territory	€107.37 million (80.3%)
Total value added generated	€360.52 million
Value added to industrial system	€312.84 million (86.8%)
Value added to households	€47.70 million (13.2%)
Industrial multiplier	2.91
Total additional income	€147.70 million
Total employment increase	1,728 FTE

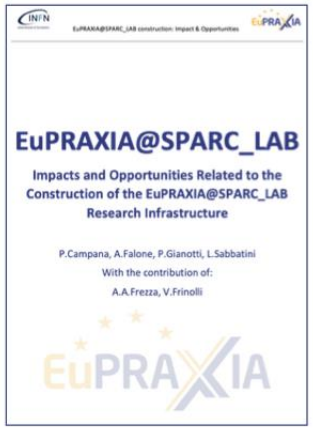
A key element for the implementation phase

In the base-case scenario for the **Socio-Economic impact** of the **operation** of the facility along its **lifecycle**, considered highly probable in terms of both the volume and nature of activities the 4 main macro-economic KPIs describe satisfactory values:

SROI	**1,54**
DPBP	**19 Years**
RIIR	**>1%**
Net Benefit	**174M€**



All the documents are available here:
https://www.openaccessrepository.it/doi/10.15161/oar.it/3kz2g-pdq75
https://www.openaccessrepository.it/doi/10.15161/oar.it/fs6d0-ycd17



Status of EuPRAXIA Sites

Funded by the European Union

EuPRAXIA@SPARC_LAB

1. TDR completed and approved (Feb. 2026)
2. Bid for the building near to conclusion; works starting in January 2027
3. First bids for machine components launched (~ 12 ME)

EUPRAXIA@ELI-ERIC

1. Creating a network of supporting institutions to help on TDR preparation
2. Shortage of resources slowed down the TDR process
3. An approval of STRIDE could greatly support the process

BEAM-DRIVEN PILLAR: INFN Frascati

LASER-DRIVEN PILLAR: ELI-ERIC Beamline

EuPRAXIA Consortium Networking

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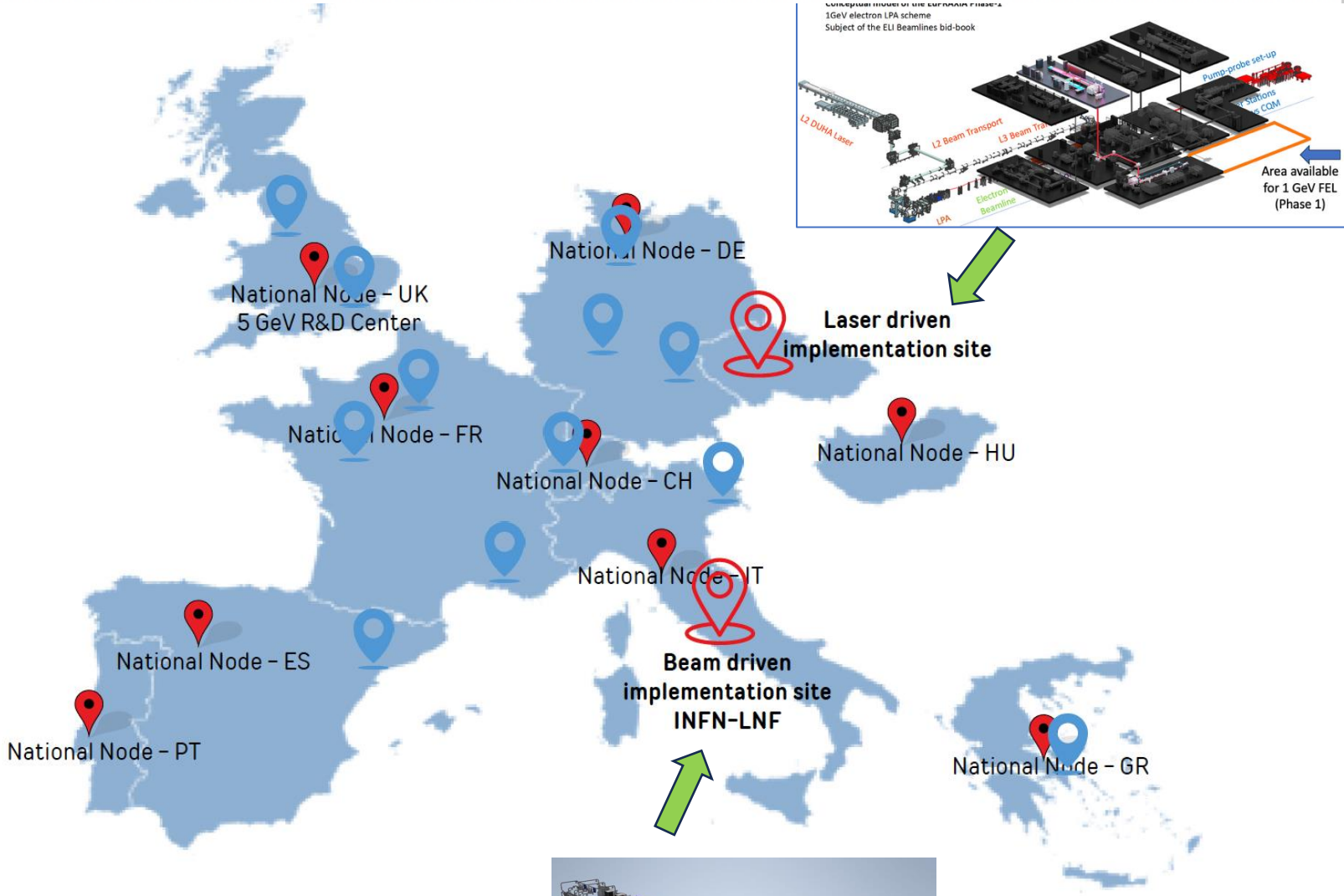
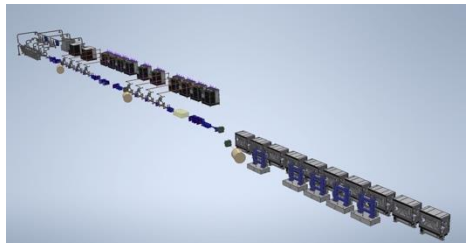
2 Implementation Pillars
@ INFN – LNF & @ ELI-ERIC

Several National Nodes. Roles to be fully defined

Project Clusters

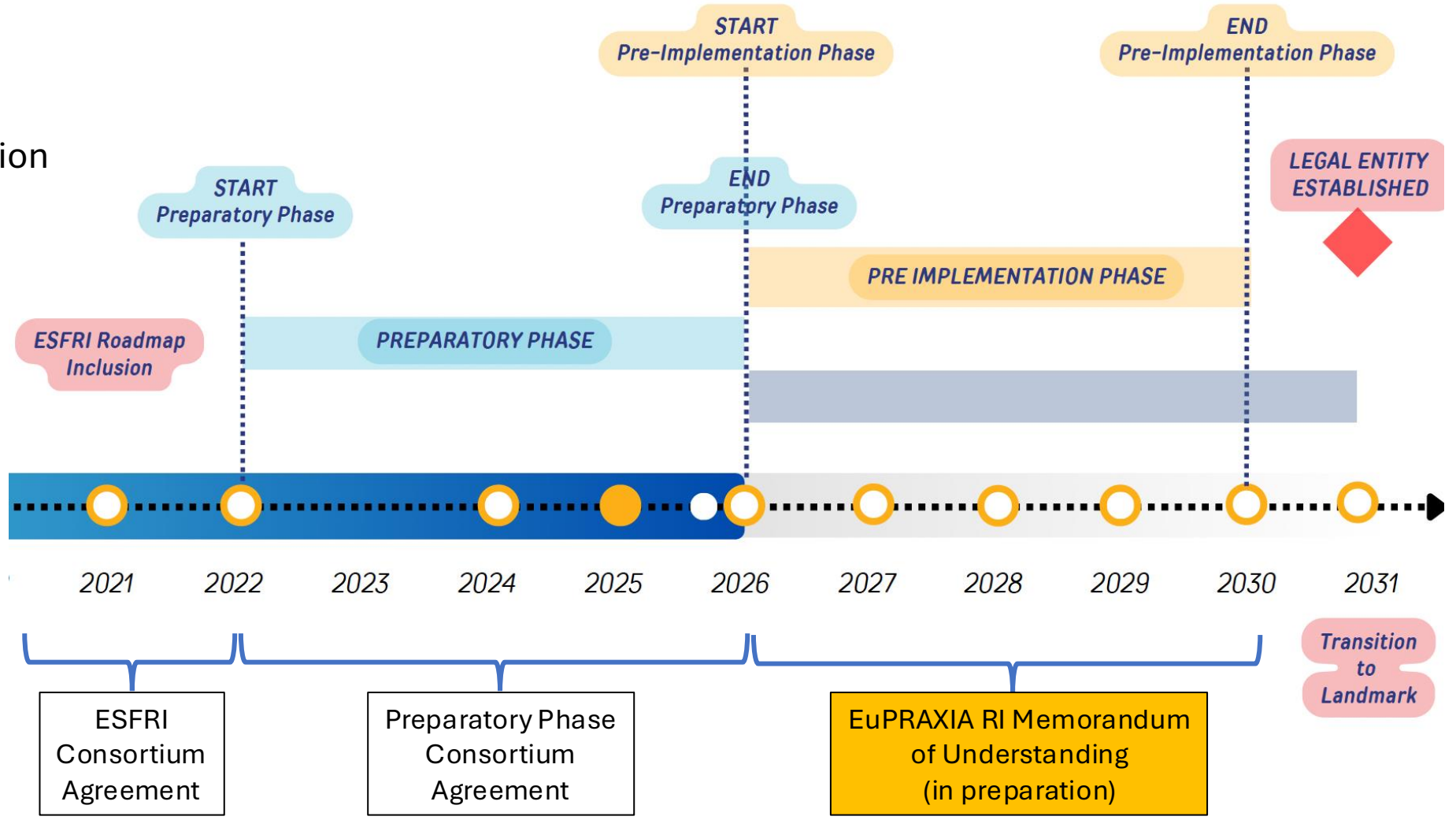
Next challenge is to define and make operational National Nodes and Technological clusters, also to define areas of support for site implementation
>> i.e. making EuPRAXIA a real, operational ESFRI RI network





What next for EuPRAXIA ?

- A long journey started in 2015
- Ending the Preparatory Phase Grant soon
- Entering the Early Implementation Grant on Oct. 1st
- Need to maintain collaboration alive with its governance to prepare the implementation & establish legal entity
- 2031 is the expected transition date from Roadmap to landmark



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EuPRAXIA Doctoral Network

Funded by the European Union

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EuAPS

Co-funded by the European Union

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PACRI

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EuPRAXIA-PP Consortium

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GSI

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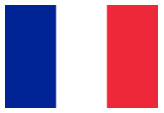
LMU LUDWIG-MAXIMILIANS-UNIVERSITÄT MÜNCHEN



Amplitude

cea

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