

# EuPRAXIA: the ESFRI Roadmap application

## Current status and key questions

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## A paradigm change

“The term 'Research Infrastructures' refers to **facilities, resources or services** of a unique nature that have been identified by European research communities to conduct top-level activities in all fields of science. This definition includes the associated human resources, covers major equipment or sets of instruments, in addition to knowledge-containing resources such as collections, archives and data banks. RI may be located in a single site (for example, large telescopes, Synchrotrons, High Performance Computing) or can be distributed across even large number of sites working jointly (for example, biobanks, archives, marine stations).”

Commission Staff Working Document, “Long-term sustainability of Research Infrastructures”, SWD(2017) 323 final, Brussels, September 26<sup>th</sup> 2017

- A **Research Infrastructure** is very different from a **demonstrator**
- A **Research Infrastructure**'s *raison d'être* is to provide services to user communities...
- ... the interest of a **demonstrator** is in the making and in reaching nominal parameters while a **Research Infrastructure** only starts being useful when it enters in operation, to serve user communities
- ... EuPRAXIA can be understood as a **demonstrator** project... By applying to the ESFRI Roadmap, you accept to consider EuPRAXIA as a **Research Infrastructure**
- A radically different paradigm should be adopted the following differences considered:

## A paradigm change

### ESFRI-type Research Infrastructure

### Demonstrator

### Research institution

- |  |  |   |
|--|--|---|
| → Pan-European   | → Any configuration: local, national, international                | → Local or national institution   |
| → Objective is to provide services to user communities for a more efficient knowledge generation | → Objective is to achieve implementation and reach parameters      | → Objective is to generate new knowledge  |
| → Services on open access  | → No service   | → Services reserved to employees + possible collaborations with other institutions on MoU basis |
| → Most (i.e. > 50%) of access capacity allocated on pure scientific excellence basis             | → Access reserved to members of the design/construction consortium |   |
| → Inter-disciplinary   |  | → Silos (i.e. typically “one institution = one scientific discipline”)                          |

### **Critical mass of users**

ESFRI considers that the construction of a new research infrastructure (or the upgrade of an existing one) is conditioned on the existence of a “critical mass of users”

A substantial part of the ESFRI Roadmap application form is focused on requesting data/evidence/proofs of the existence of a critical mass of users to applicants

### **Open access**

Means that we are building a Research Infrastructure primarily for researchers external to the EuPRAXIA Consortium

Access to EuPRAXIA expertise, facilities, data will be primarily granted on a pure scientific excellence basis... this can even mean that researchers from institutions part of the EuPRAXIA Consortium should also submit proposals to be granted access to EuPRAXIA just like external users!

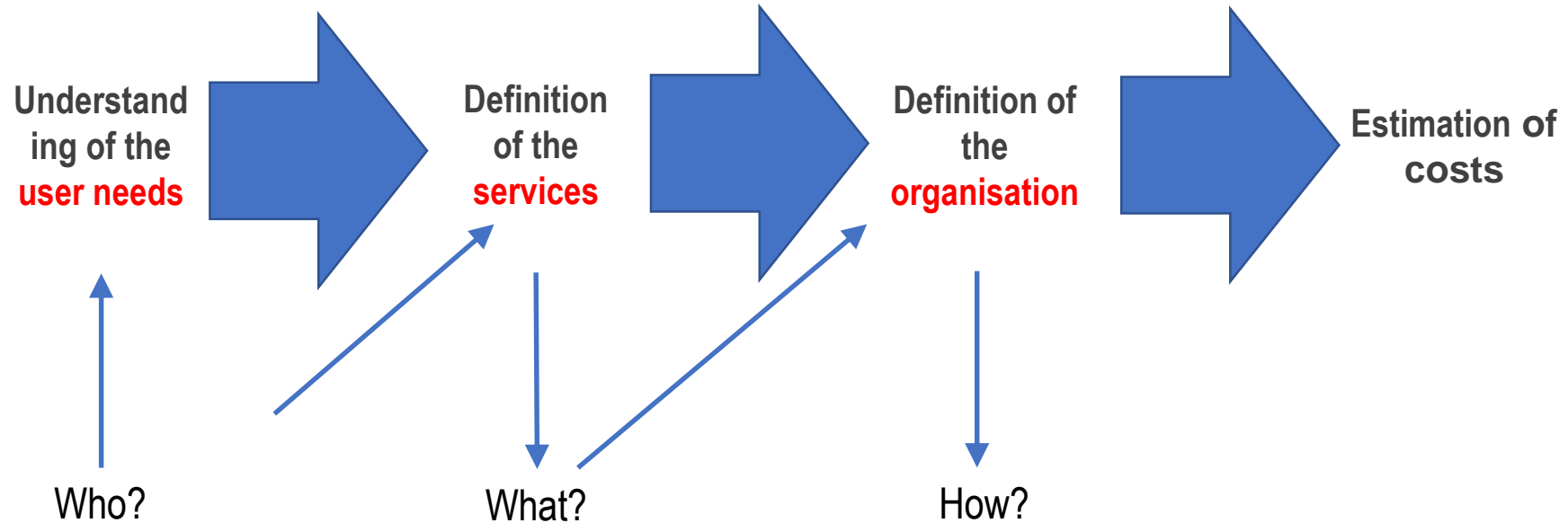
## Logical questions

As a Research Infrastructure, some questions that were not at the heart of the EuPRAXIA project becomes critical, and they all relate to users:

- Who are EuPRAXIA-RI's future, potential users?
- What are their big questions, their scientific challenges, the social, economic, political, etc. challenges they are expected to contribute?
- What can EuPRAXIA-RI offer to those users in terms of services?
- What will be the beamlines available at EuPRAXIA-RI?
- What support services will be available to the user during experiments?
- What is the total access capacity at EuPRAXIA-RI?
- How independent will be those beamlines between them?
- How many experimental areas will be available for users?
- How is access granted at EuPRAXIA-RI?
- Etc.

## Current status of the ESFRI application preparation

Schematic logical progression of EuPRAXIA's business model and plan



- Modest return of completed questionnaires
- Please send more contact details of relevant potential users
- More in Maria's presentation

- We work under assumptions regarding services at EuPRAXIA
- EuPRAXIA SC is now kindly requested to provide indications or decisions

- Starting this month!

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