



Exploring a US/ELI Collaboration

Governance Framework

Allen Weeks
Director General
US – ELI Joint Workshop
OSA, Washington DC – 25 September 2019



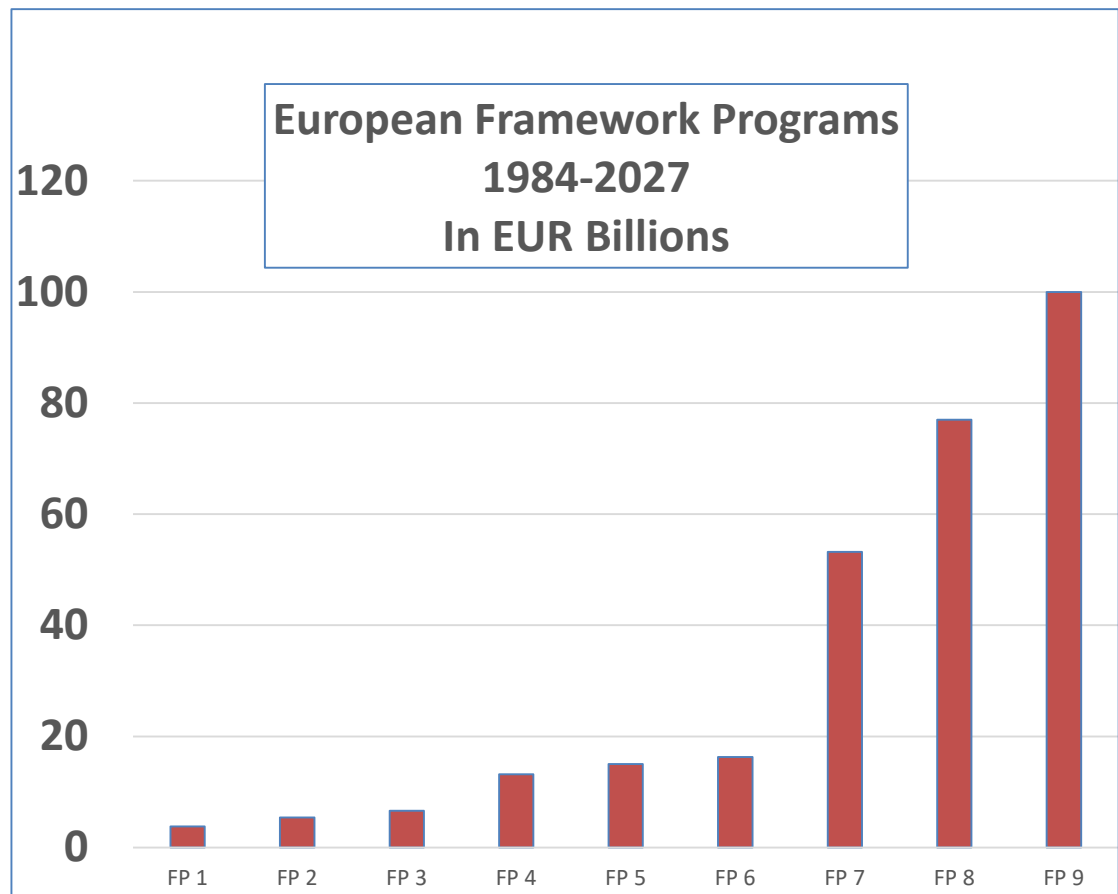
European Research Area



European
Research Area

The **European Research Area (ERA)** is a system of scientific research programs integrating the scientific resources of the EU.

Increased mobility of knowledge workers and deepened multilateral cooperation among research institutions among the member states of the European Union are central goals of the ERA.





Research Infrastructure in ERA



Strategy Report on Research Infrastructures

ROADMAP 2018

ESFRI

Taking Europe to the forefront of **Science**

ESFRI supports a coherent and strategy-led approach to policy-making on research infrastructures in Europe, and facilitates multilateral initiatives leading to the better use and development of research infrastructures, at EU and international level. Following a vision for sustainable policies and funding, ESFRI updates the European Roadmap for research Infrastructures systematically.

18

Projects
of Scientific Excellence

37

Landmarks
established as major elements of
competitiveness of the ERA

74

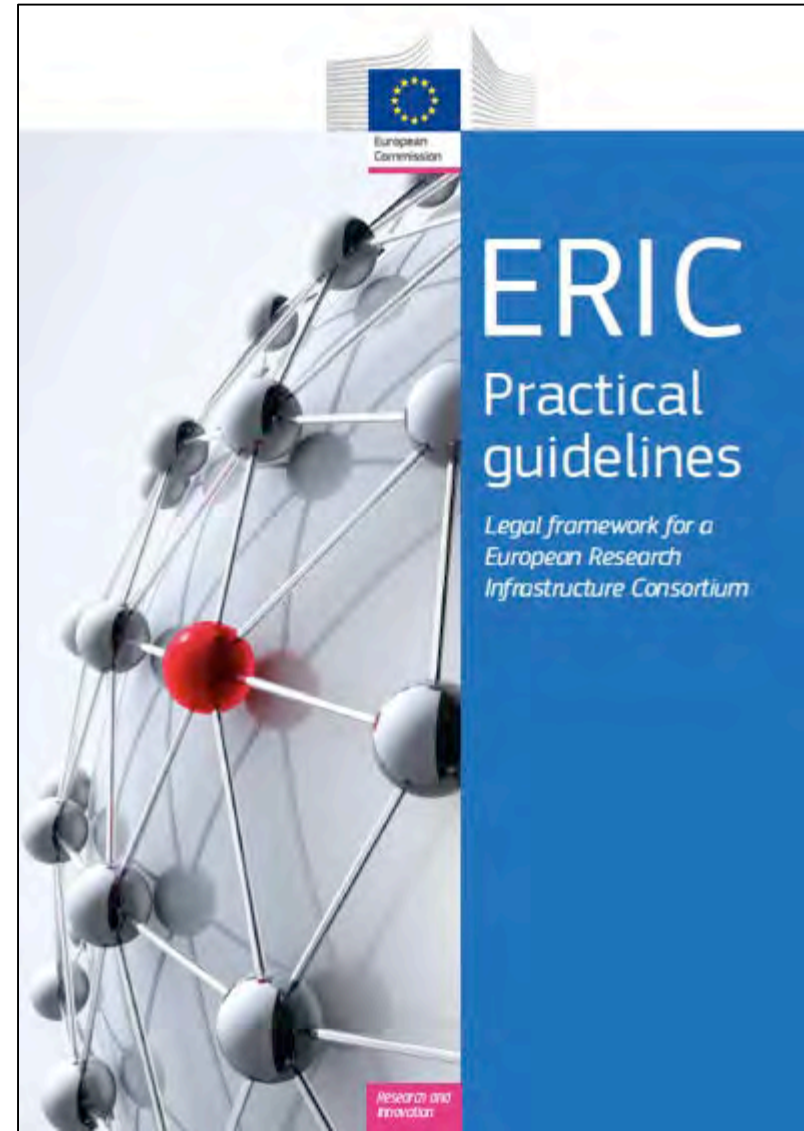
Delegates
representing 36 countries

5 Roadmaps

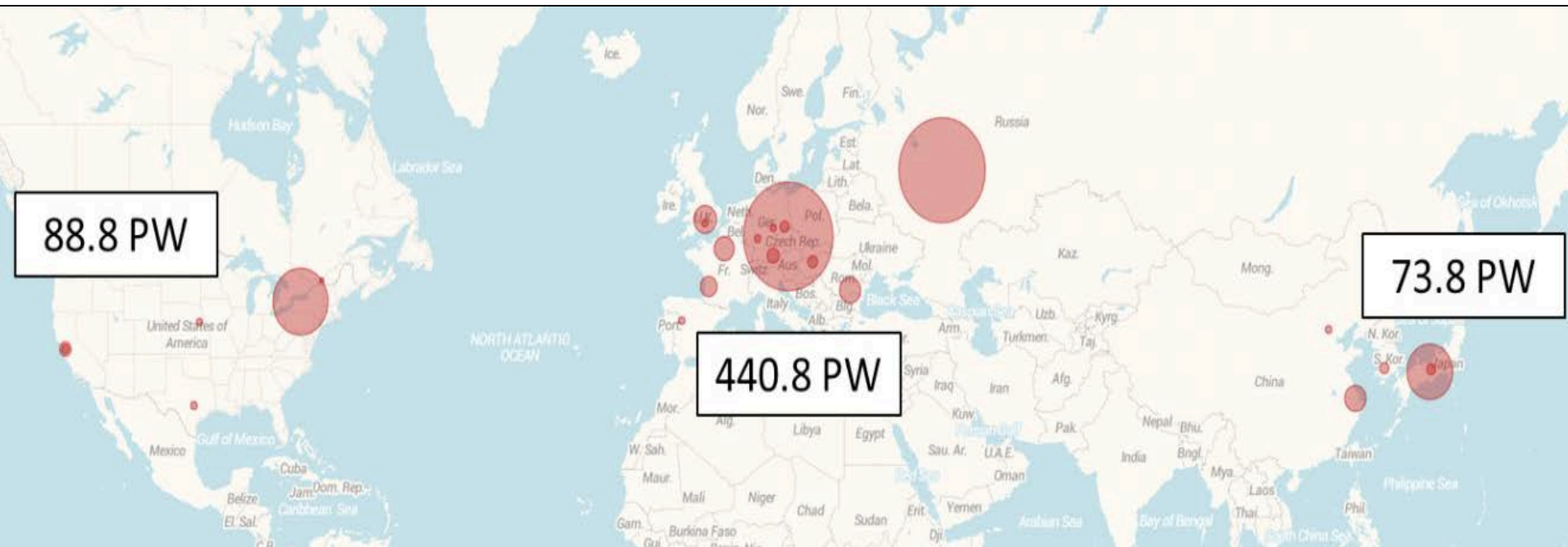
11 Working Groups

Advantages:

- International Organisation
- Enables the easiest, most legally supported entity for ***countries*** to join and financially contribute the organization within the EU
- Offers a lot of flexibility in how to set it up
- Allows self-determined ***Procurement Rules***
- Allows for ***VAT Exemption***
- ***Countries outside the EU may join!***

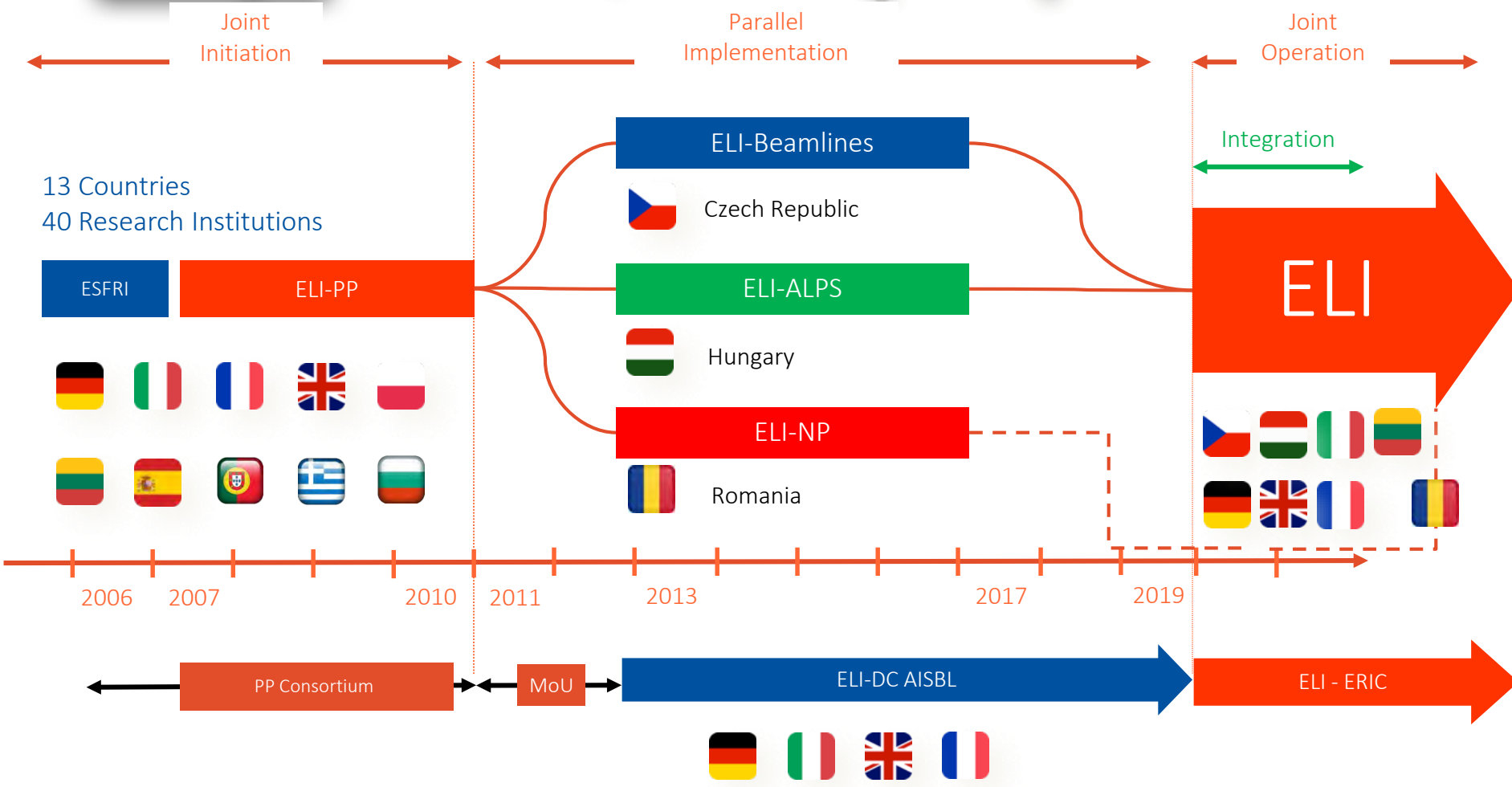


- **Investment** is driving **leadership** in laser and photonics, especially for state-of-the-art systems
- Projected total peak power for high power laser systems operational and under construction is by far world-leading
- ELI Facilities are introducing **5 PW-class lasers, 3 @10PW**





The Extreme Light Infrastructure





- *ELI facilities delivered **on time and budget***
- *ELI ERIC Members aim to integrate the facilities together as one*
- ***Transitioning** from Implementation (Construction) to **Operations***
- *Continued **support from the EU** during the start-up period*

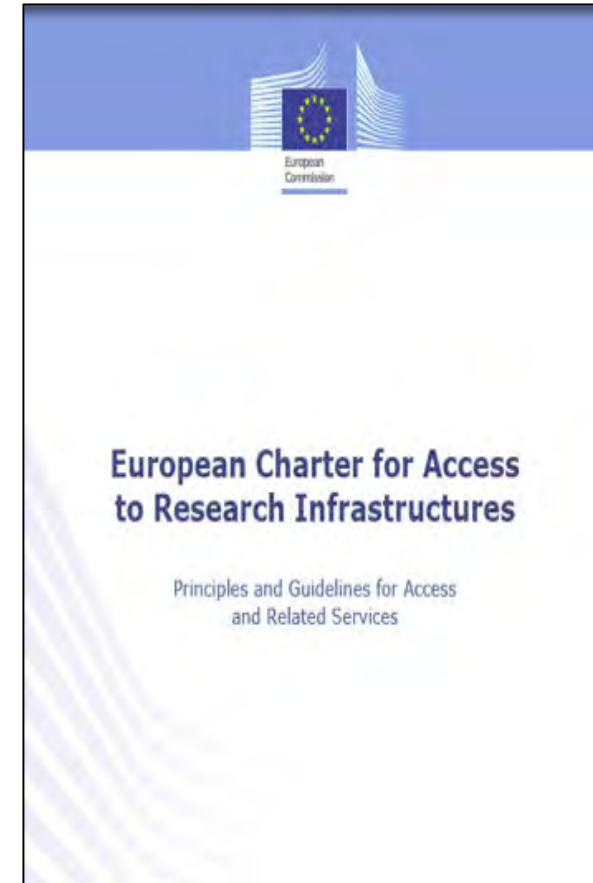
Excellence-driven Access for Users

Peer-reviewed, depends on scientific excellence, originality, quality and technical and ethical feasibility of a proposal. No cost to user. Open data...

- User interest and participation is linked to results of studies - must be published and open;
- Member contributions are indirectly linked to usage by their scientific community;
- Data and IPR policies are essential early on
 - ELI will keep and maintain the data, to be embargoed for the original researcher for a period of time (usually 3 years)
 - Intellectual property to be kept/maintained by ELI, commercialized in some cases

Proprietary Access

This is paid access, and results are proprietary. Prices are determined on a case-by-case basis.



ELI is a driver for development in industry:

- The global market for lasers is estimated at **€13.5B in 2018**
 - up 5% over 2017 (*Laser Focus World, Mar. 2019*)

Over the construction period **ELI Facilities** report:

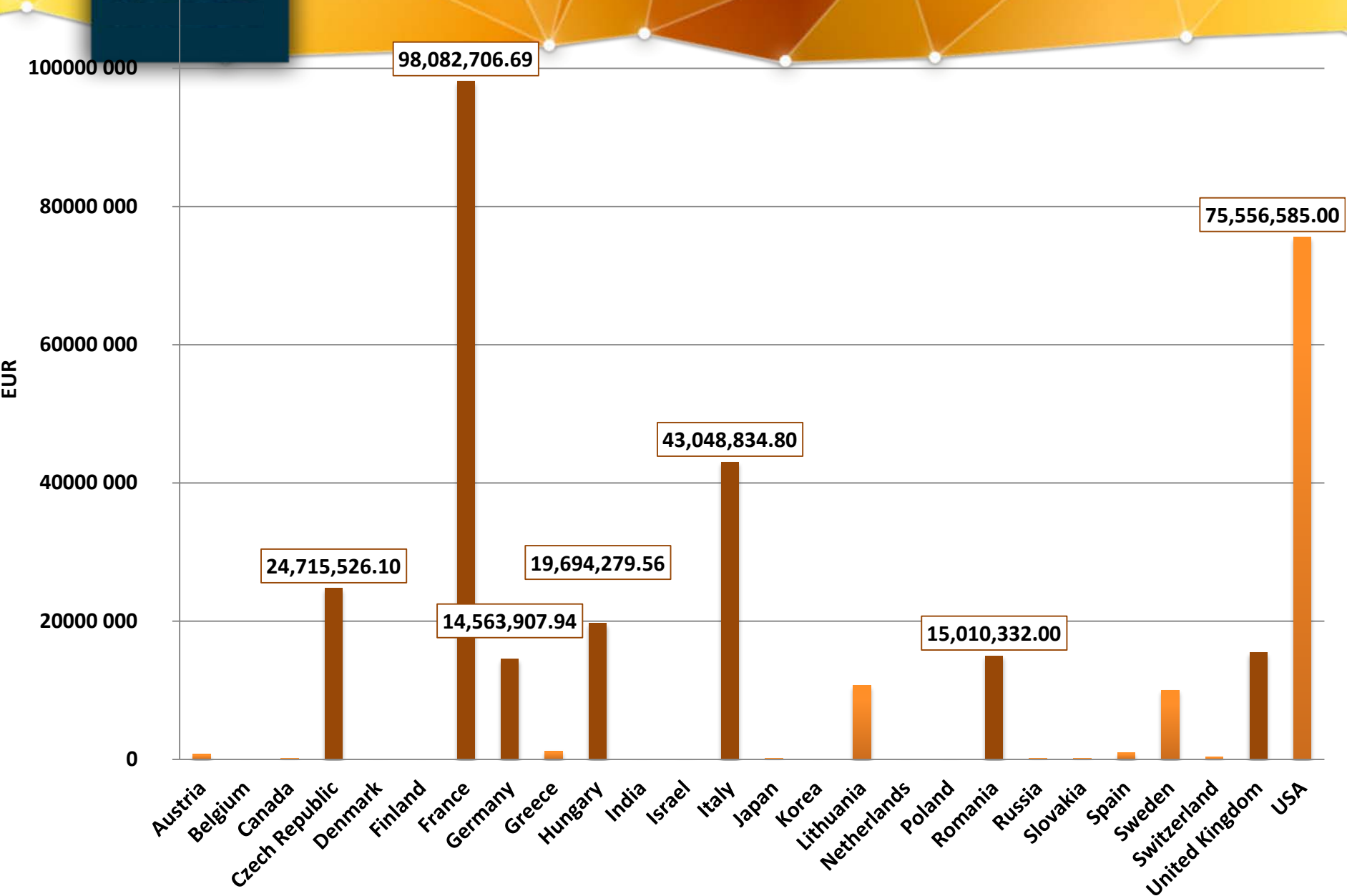
- More than **€455 million in contracts**
- Companies from **19 European countries**

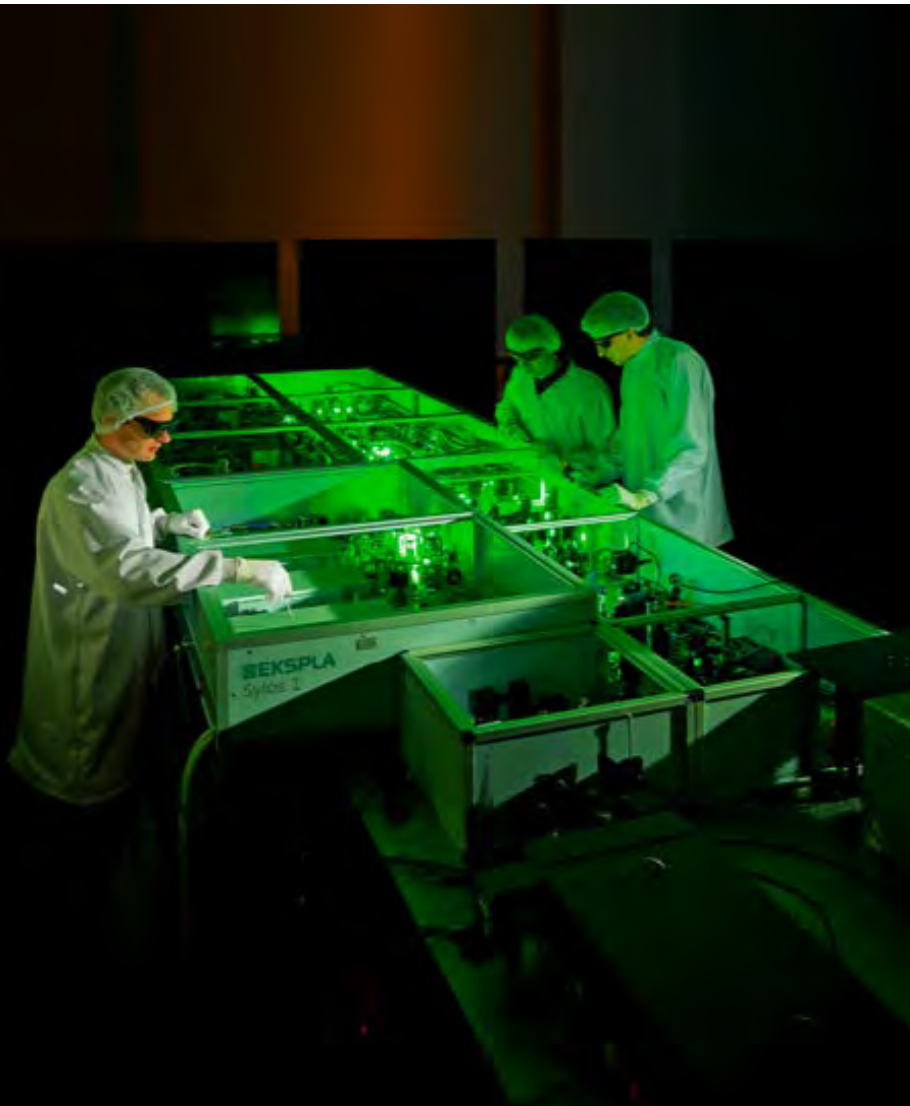


ELI ERIC collaborates with industry as part of its core mission



ELI Construction Procurement





- The facilities are preparing to **receive the scientific community**, begin experiments.
- To **maximise scientific impact** and excellence, the three facilities will together.
- The ERIC enables a **single, Member-led consortium**.
- The **users** we serve and the **staff** of ELI ERIC will be **unified to operate effectively**.

Each facility the 'scope' determines the Ops Costs > which in turn determine the contributions of non-Hosts

- **Milestones** signal 'integration' and are the basis of contributions
- Facilities land and buildings are **fully available and managed by ELI ERIC**
- All interaction governed by **Host Agreement** between CZ/HU
 - ***Seat in Dolní Břežany***

ELI ERIC Integrated Organisation Model	2019	2020	2021	2022
Governance	CZ/HU	CZ/HU	CZ/HU	CZ/HU
Science Policy	CZ/HU	CZ/HU	CZ/HU	CZ/HU
User Access	CZ/HU	CZ/HU	CZ/HU	CZ/HU
Budget	CZ/HU	CZ/HU	CZ/HU	CZ/HU
Employment Policy	-	CZ	CZ	CZ/HU
Technology Management	-	CZ	CZ	CZ/HU
Facilities Management	-	CZ	CZ	CZ/HU
Legal & Liability	-	CZ	CZ/HU	CZ/HU
Administrative	-	CZ	CZ/HU	CZ/HU

Next steps:

- Formal application for setting-up of ELI ERIC is prepared for submission
- ERIC Start-up Planning
 - Establishing the internal “rules”
 - Hiring the staff
 - Setting-up the organization
 - Establish the legal basis for the ELI ERIC
- Incremental availability and responsibility in operating the experimental facilities.
- Incremental entry of EU Countries and commitment to support the operation of the integrated ELIERIC
- First peer-reviewed “call for users” to be defined relative to readiness to receive users at the Facilities



Questions?

Thank you



ELI ERIC Governance & Management

Extreme Light Infrastructure European Research Infrastructure Consortium
(ELI ERIC)

