



# Introduction to EBRAINS RI

Amaryllis Raouzaïou

ATHENA RC

# 2023 EBRAINS RI

- **EBRAINS:** a next-gen *engine*, not just *directory* or *catalogue*.
- Go beyond just *providing* resources & components.
- Primary focus:
  - integrated services as platform
  - products/interfaces as surrounding ecosystem.

# Our plan

Three aspects to be addressed:

## 1. "DevOps" platform

- Ensure developers can painlessly improve/maintain components.
- Coordinate their interaction/cooperation.

## 2. Keep platform **scalable, maintainable, affordable**

- Optimise deduplication, technology-sharing, reuse.

## 3. "Production" platform

- Ensure integrated/intuitive experience for researchers & output-consumers.

# Priorities - Ensuring EBRAINS Future

## USERS

- Bridge scientists' and developers' worlds
- EBRAINS RI usable and understandable by different user types

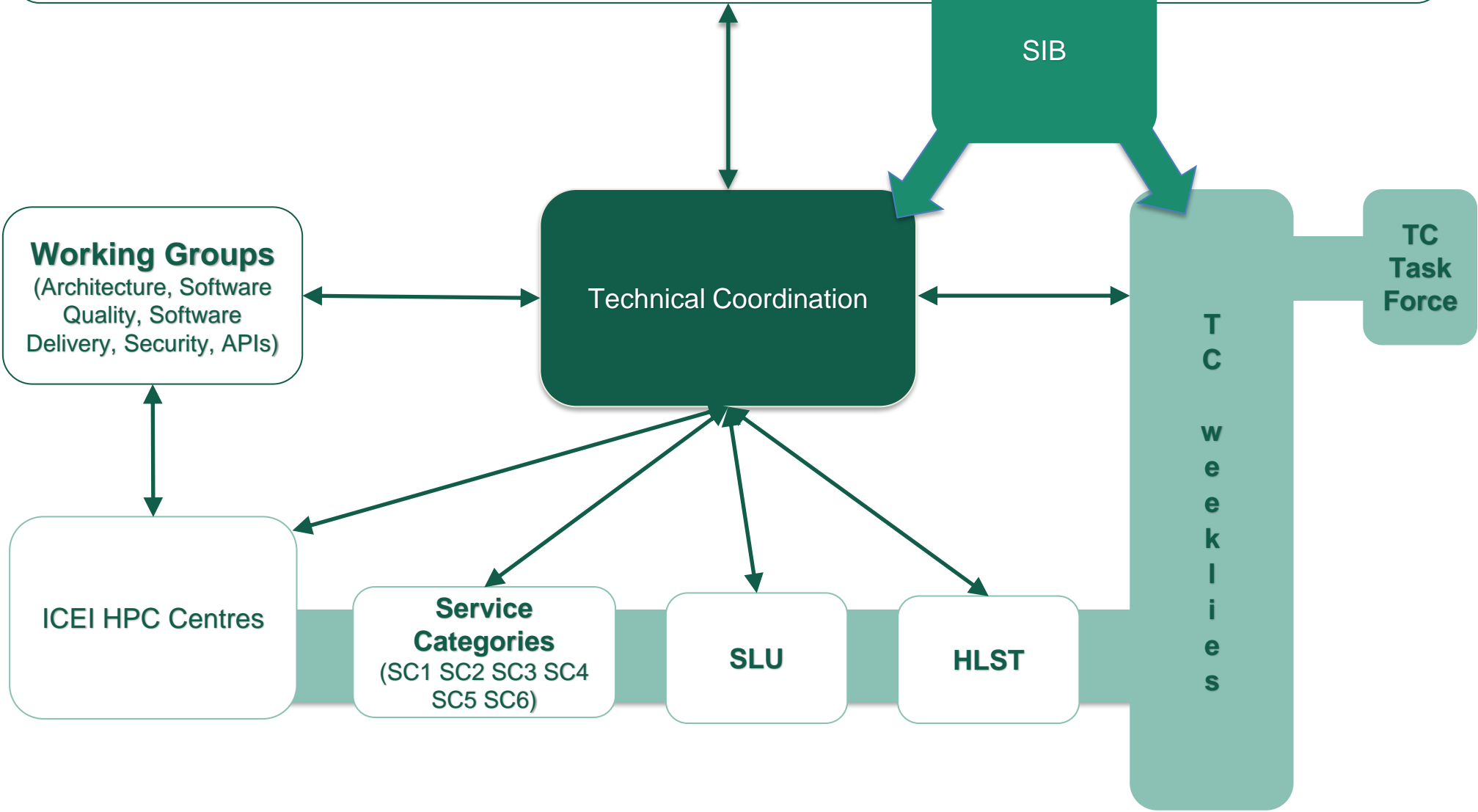
## TOOLS → RESULTS

- Easy, quick, expressive, accessible research activity
- User experience (UX) feedback

## ENGINEERING

- Scalable, secure, maintainable, affordable, industrial platform
- DevOps platform

# EBRAINS Coordination



# TC weeklies

- The **heart** of TC
- Weekly ‘agile’ meetings
- **Open** to all members of SGA3
- **Short webinars** for specific issues/areas of interest
- **SCs Priorities**

## MEETING POINT

**60+ participants**  
**220+ issues closed**  
**15+ issues in progress**  
**20+ open issues**

## SC PRIORITIES

**12 already closed**  
**8 in progress**  
**3 blocked**  
**3 new**



# Where we are

- Main focus: **Integration**
  - Phase 2
    - **16** components participating (+4 from Phase 1)
    - Discussions and meeting with Phase 2 components + component-specific guidelines through emails and meetings
  - Phase 3
    - Phase 2 components **continue** their journey in Phase 3
    - **All** the components will be integrated during Phase 3
    - New components will **gradually** join Phase 3 after **assessment** and **communication** with the TC team

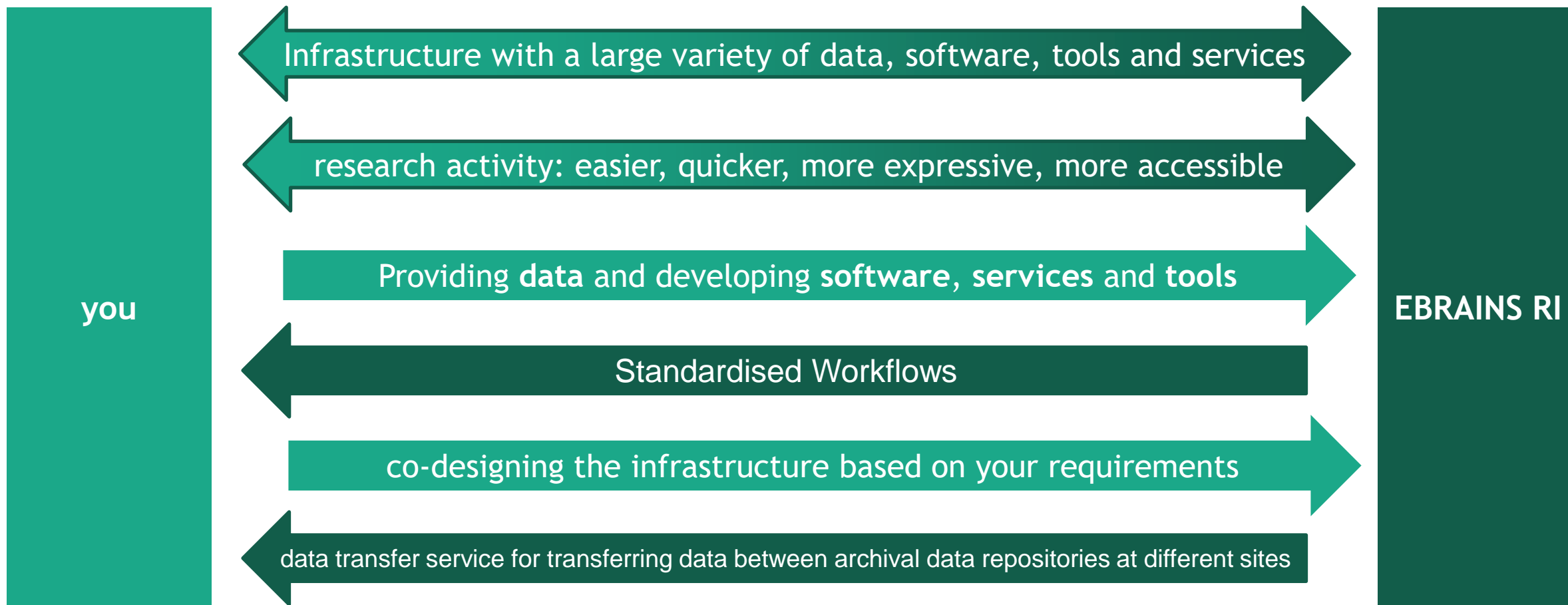
# Where we are

---

- Active **Working Groups**
- Collaboration with **HLST** (documentation), **SLU** (showcases, new use cases, scientific WPs), **Fenix Infrastructure**
- EBRAINS service software installation for use with the **Collaboratory JupyterLab**
- Standardized computational **workflows**







# EBRAINS and the technologies of the decade

Designed to

- ensure **relevance** of the technology supporting service delivery
- integrate **new** tools and services
- adapt to **changing needs** of scientific community and evolving **user needs**
- adapt to **new** technologies

Robots  
Cloud Computing  
AI  
AI Engineering  
Data Management  
Privacy Enhancing Computing  
ML  
Big Data  
NLP  
HPC  
Augmented Analytics  
Human Augmentation  
Edge Computing  
Digital Twins  
Wearables

CO-DESIGN + PARTNERING PROJECTS



EBRAINS



# Contact Us!

---

- *[hcp-tc@athenarc.gr](mailto:hcp-tc@athenarc.gr)*
- *TC weekly*
- *TC collab*



EBRAINS



Co-funded by  
European Union



Human Brain Project



Thank You!

[www.humanbrainproject.eu](http://www.humanbrainproject.eu)

[www.ebrains.eu](http://www.ebrains.eu)