

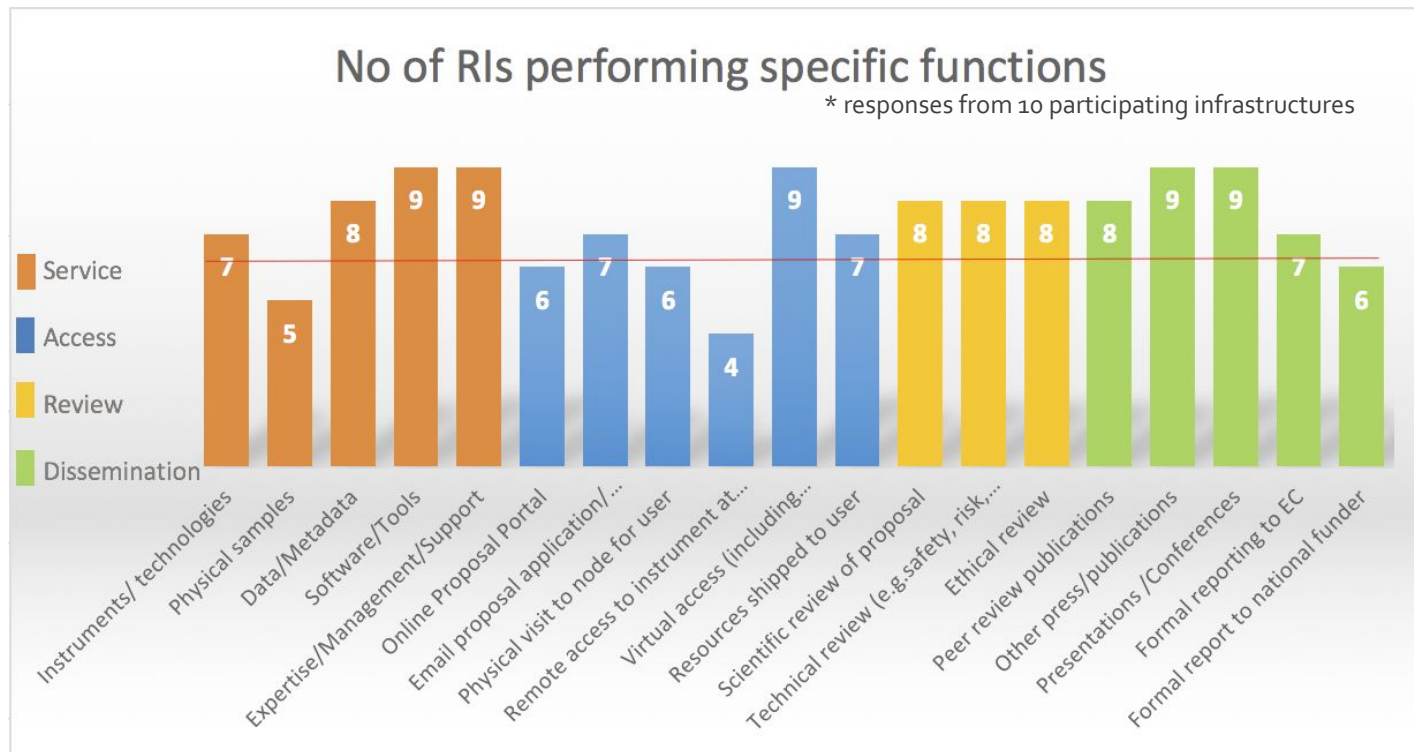
CRBEL shared services for life-science

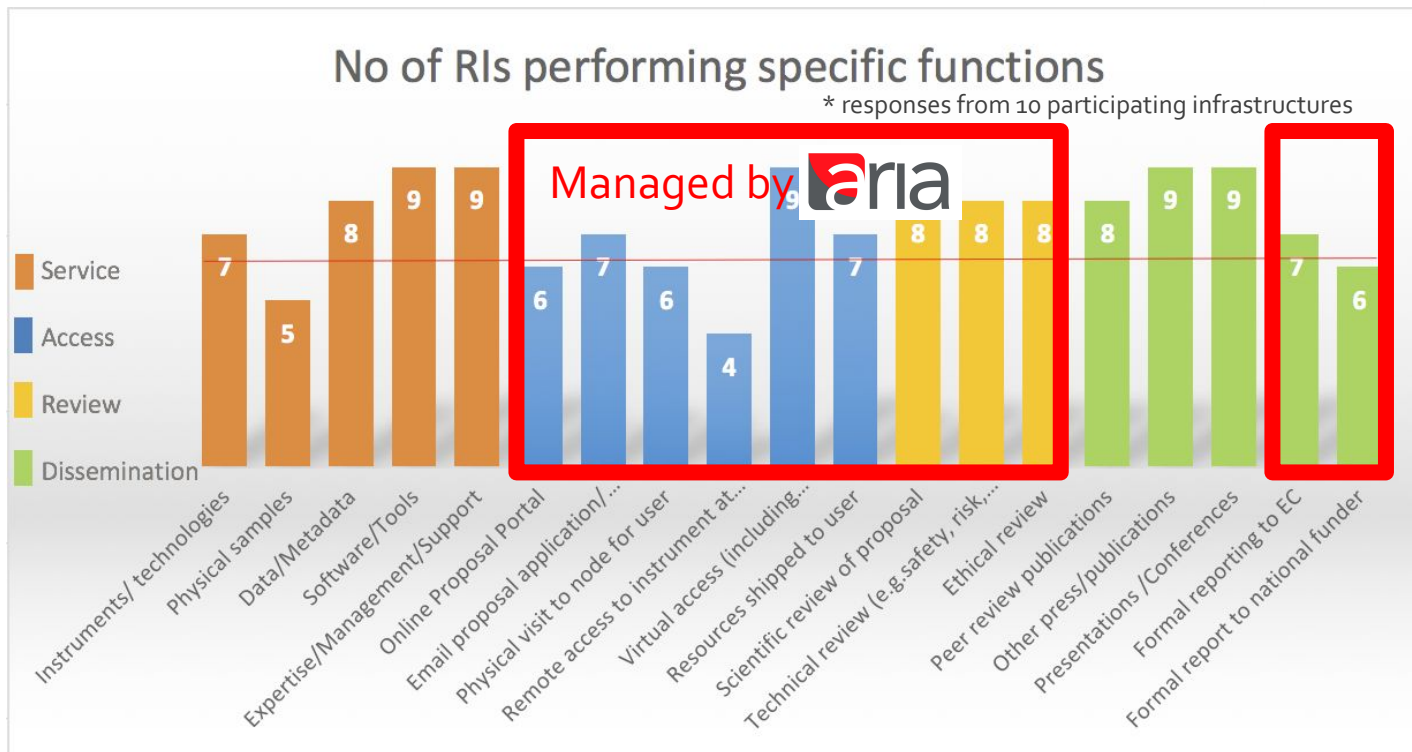
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## ARIA: Harmonising Access to Research Infrastructures (WP5)

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- Research Infrastructures are organisations that enable research communities to use specific facilities, resources and services in order to accelerate scientific achievements and promote sustainable results
- Use of or “access to” the infrastructure is based on scientific excellence
- Peer-review is a popular method of ensuring scientific excellence

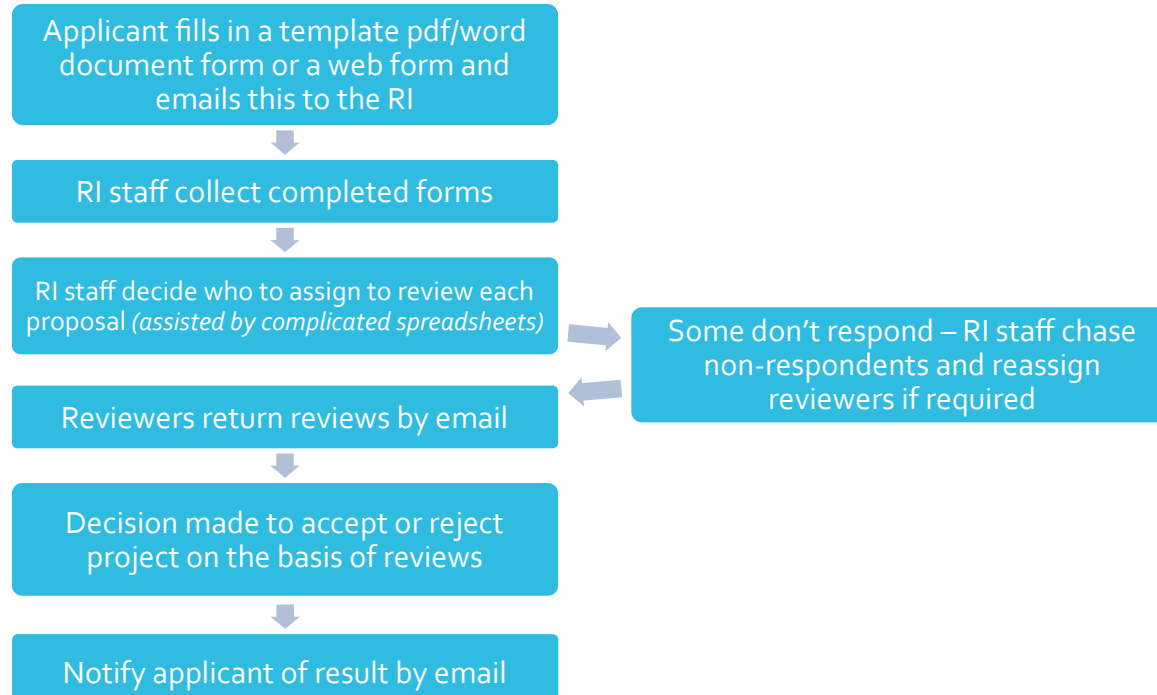




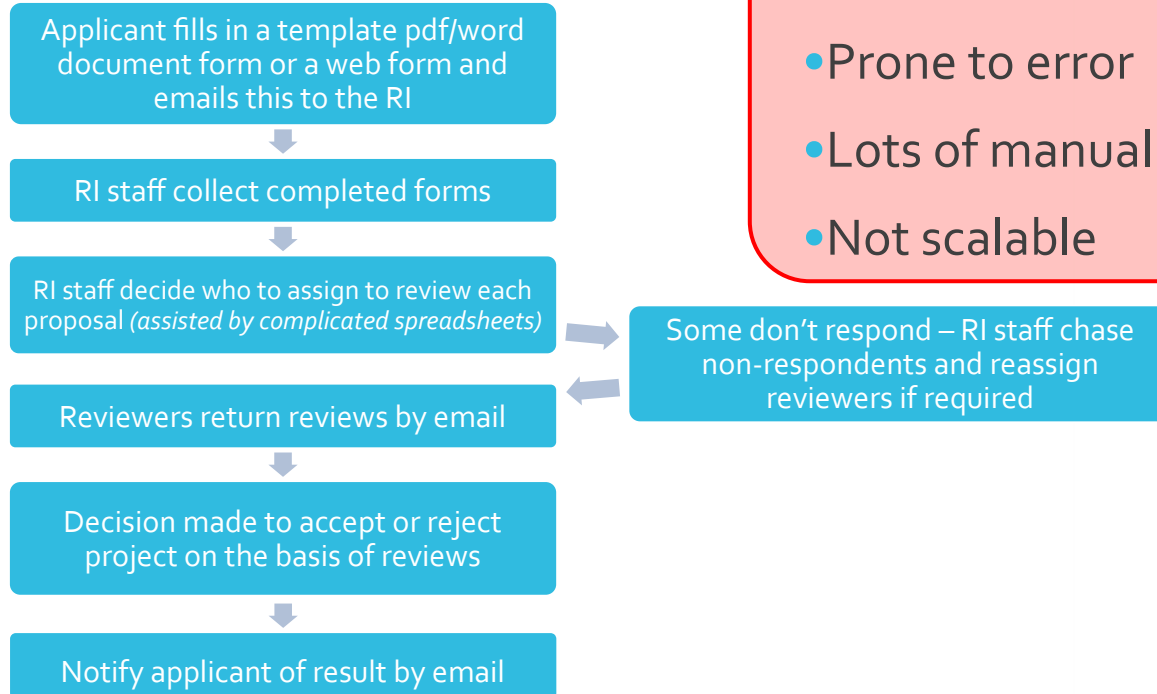
- AAI = Authentication and Authorisation Infrastructure
- Single identity (login) for each researcher
- Access can be granted to specific resources or datasets connected to the AAI depending on their identity



## MANAGING PROPOSAL SUBMISSION – THE OLD FASHIONED WAY



## MANAGING PROPOSAL SUBMISSION – THE OLD FASHIONED WAY



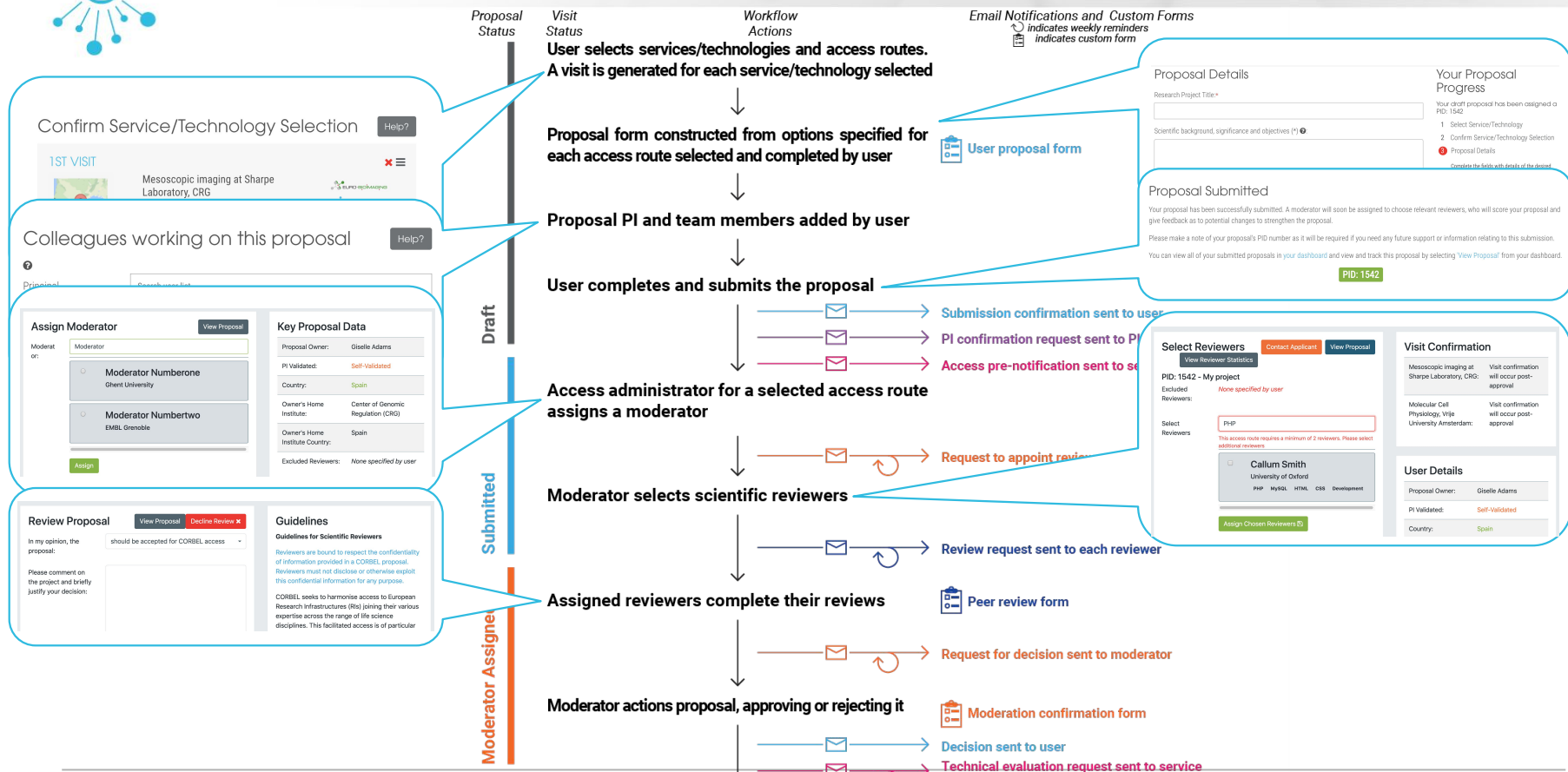
- Insecure
- Prone to error
- Lots of manual steps
- Not scalable

- ARIA has evolved developed by a research infrastructure – for research infrastructures
- Software tools span a range of different areas of Research Infrastructure management



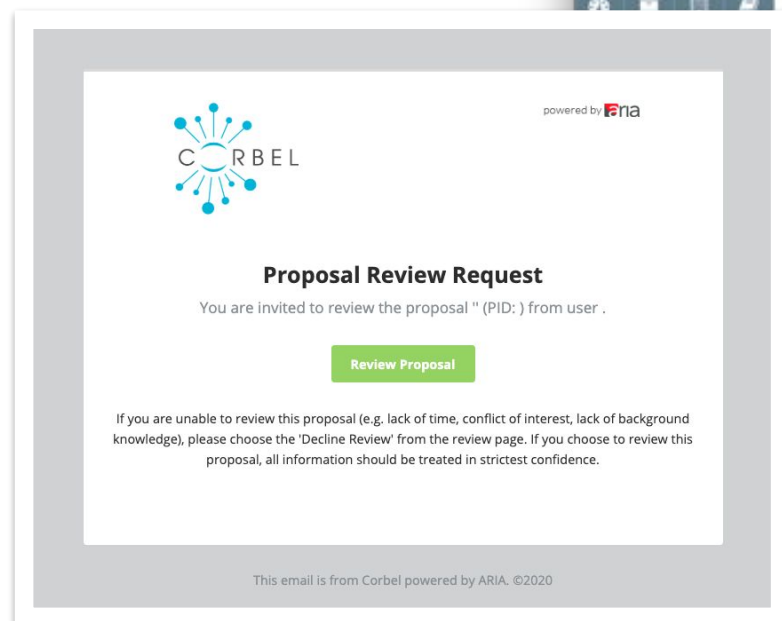


# MANAGING PROPOSAL SUBMISSION IN ARIA



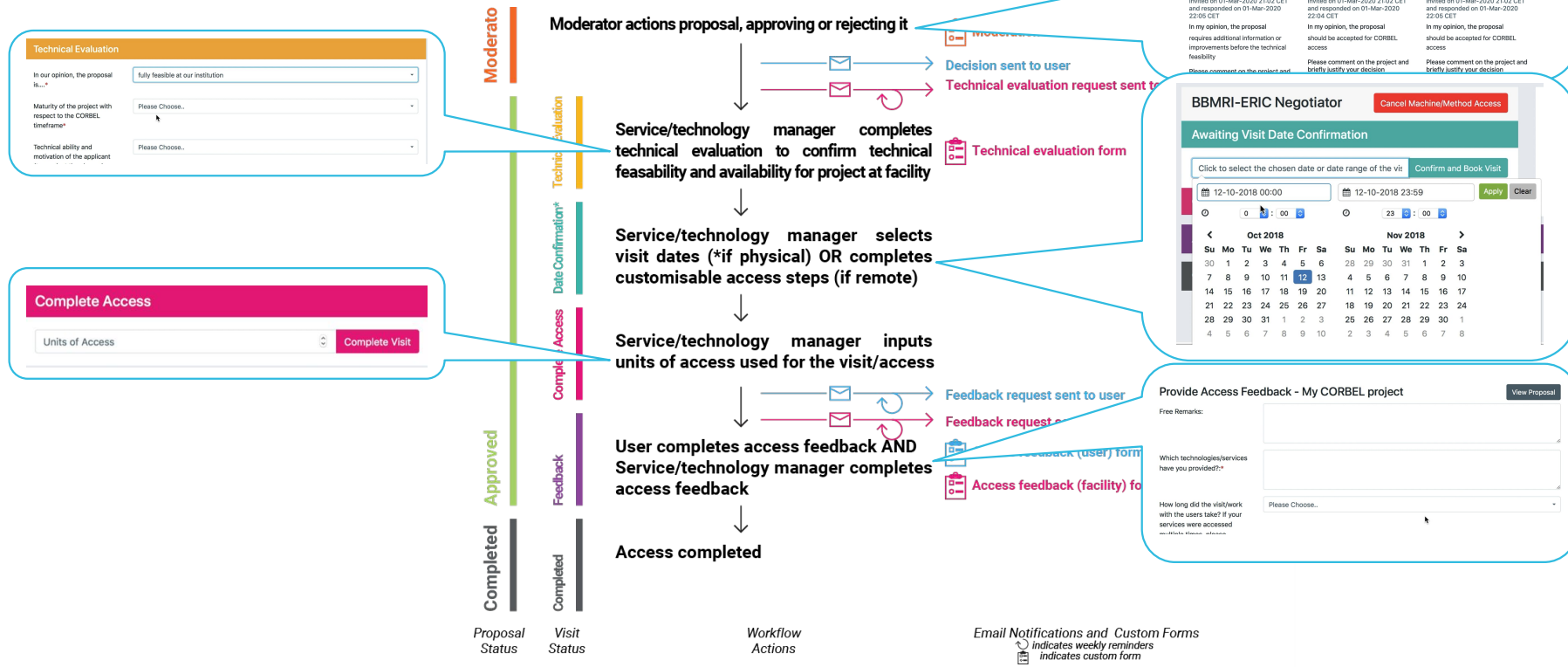


## PEER REVIEW – SIMPLE ONE-PAGE INTERFACE





# MANAGING ACCESS IN ARIA





## CORBEL OPEN CALL SUBMISSIONS – FIRST OPEN CALL



Select your access track with the research infrastructures you want to apply for

Please select technologies/services from multiple research infrastructures

ACCESS TRACK 1	ACCESS TRACK 2	ACCESS TRACK 3	ACCESS TRACK 4
Genotype to Phenotype Analysis	Pharmacology For Safer Drugs and Chemical Products	Structure-Function Analysis of Large Protein Complexes	Marine Metazoan Developmental Models
 BBMRI-ERIC  ISBE  EURO-BIOMAGING	 elixir  EURO-BIOMAGING  EU-SPENSREEN	 EURO-BIOMAGING  INSTRUCT  ELIXIR	 EMBL  EURO-BIOMAGING

Please select the CORBEL research infrastructures you would like to access from the list above in your preferred Access Track. Choose the service providing institutes and the desired technologies/services for conducting your research. If you need further advice on this selection, choose the service provider only and provide further details below in the textbox 'Visit Detail'. Following the selection of services and technologies, please confirm by clicking the CORBEL logo.

☐ Support for proper data processing

**BIOINFORMATICS PLATFORM AT BMSB/MDC**

☒ Determination of cell sample type identity from molecular signature

Choose from the available access routes

Poland

**MOLECULAR CELL PHYSIOLOGY, Vrije University AMST...**

Choose from the available access routes

Denmark

### Confirm Service/Technology Selection

Help?

### Your Proposal Progress



#### BIOINFORMATICS PLATFORM AT BMSB/MDC

Remove Re-order

- Determination of cell sample type identity from molecular signature
- Remote Physical



Back

Add Another Service/Technology

Continue Proposal



shared services for life-science

powered by fna

Select your access track with the research infrastructures you want to apply for

Help?

### Your Proposal Progress

#### 1 Select Service/Technology

From your preferred access track, select at least two infrastructures which will be required to undertake the research being proposed.

Choose from the available locations which service providing institutes you would like to access and specify the desired technologies/services for conducting your research.

- Confirm Service/Technology Selection
- Proposal Details
- Your Research Team
- Exclude Reviewers
- Confirm and Submit Proposal

#### SELECTED SERVICE/TECHNOLOGY

Bioinformatics Platform at BMSB/MDC



Please select technologies/services from multiple research infrastructures

Please note: You can only select visits from a single access track. If you require access to facilities across multiple tracks please contact us for assistance.

#### ACCESS TRACK 1

Genotype to Phenotype Analysis



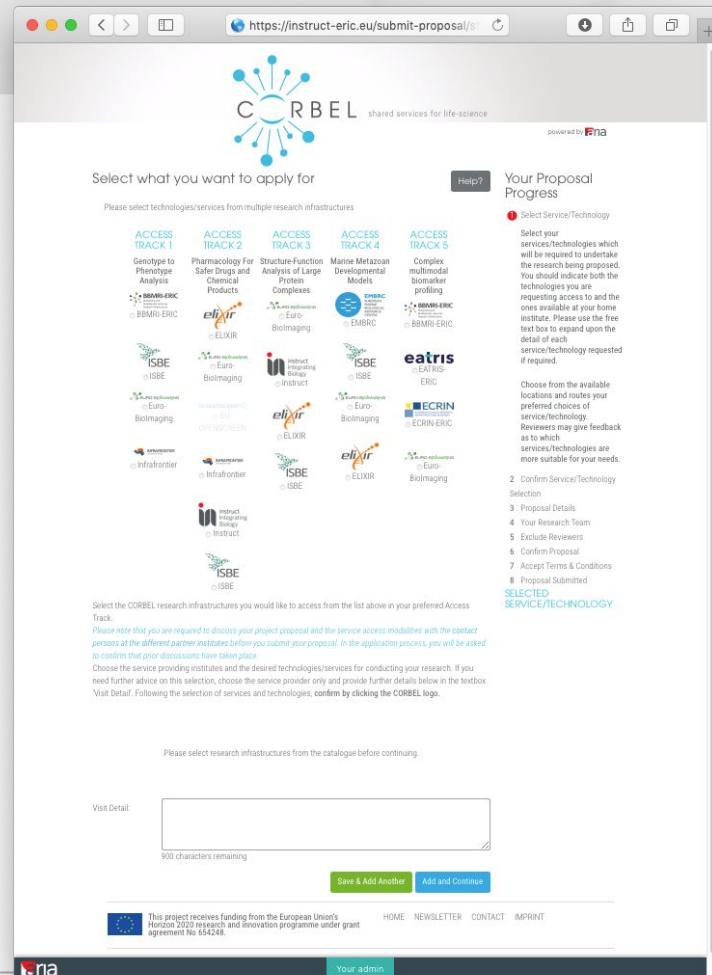
BBMRI-ERIC

EDMRI-ERIC

ISBE

ISBE

- Additional Access track
- Enforced selection of 2 RI
- Enhanced workflow
- Flexibility to select between tracks



The screenshot shows the CORBEL submission portal interface. At the top, the CORBEL logo is displayed with the tagline "shared services for life-science" and "powered by ERIA". The main heading is "Select what you want to apply for". Below this, there are five "ACCESS TRACK" options, each with a description and a list of associated research infrastructures (RIs) with their logos:

- ACCESS TRACK 1:** Genotype to Phenotype Analysis. RIs: BMRB-ERIC, ISBE, Euro-BioImaging, EMBL-EBI, EMBL-EBI, EMBL-EBI.
- ACCESS TRACK 2:** Pharmacology For Safer Drugs and Chemical Products. RIs: ELIXIR, EMBL-EBI, EMBL-EBI, EMBL-EBI.
- ACCESS TRACK 3:** Structure-Function Analysis of Large Protein Complexes. RIs: EMBL-EBI, EMBL-EBI, EMBL-EBI, EMBL-EBI.
- ACCESS TRACK 4:** Marine Metazoan Developmental Models. RIs: EMBL-EBI, EMBL-EBI, EMBL-EBI, EMBL-EBI.
- ACCESS TRACK 5:** Complex multimodal biomarker profiling. RIs: BMRB-ERIC, ISBE, Euro-BioImaging, EMBL-EBI, EMBL-EBI, EMBL-EBI.

Below the tracks, there is a section titled "Select the CORBEL research infrastructures you would like to access from the list above in your preferred Access Track." followed by a note: "Please note that you are required to discuss your project proposal and the service access modalities with the contact persons at the different partner institutes before you submit your proposal. In the application process, you will be asked to confirm that prior discussions have taken place." and "Choose the service providing institutes and the desired technologies/services for conducting your research. If you need further advice on this selection, choose the service provider only and provide further details below in the textbox 'Visit Detail'. Following the selection of services and technologies, confirm by clicking the CORBEL logo."

At the bottom, there is a "Visit Detail" section with a text box and a "900 characters remaining" indicator. Below this are two buttons: "Save & Add Another" and "Add and Continue". At the very bottom, there is a footer with the European Union logo, a statement about funding from the European Union's Horizon 2020 research and innovation programme, and links for HOME, NEWSLETTER, CONTACT, and IMPRINT.



- Keep all project-related communication in one central location
- Automatic cc of all relevant people
- Unlike email, message participants update when staff come and go so no history is lost
- Link to conversations from the proposal/visit management pages in ARIA to make conversations easy to find
- Reply direct from your email inbox and the message is added to the ARIA thread
- Protects email addresses from being shared by default

## • Visit management upgrades

- Improved filtering and dashboard for visits
- Single unified management for remote/physical access
- Visits can have one or more sessions with fully customizable workflows
- Integrated notebook for sessions (message thread)
- Checkpoint-initiated scheduling
- Customisable checkpoints
- Per-session feedback (facility configurable)
- Expenditure integration for tracking access cost items





SINCE THE OPEN CALLS

## Expenditure for this session

Show 100 entries Search: Service

Timestamp	Line item	Category	Type	Net	VAT	Actions
15-Jan-2020 11:26 CET	EM	price	Service Charge	1.40 EUR	0%	
	fdhgjhaykj					

Copy CSV PDF Print

Previous 1 Next

Add preset items Add custom items

Item name

Item type

Description

Net:

Currency:

VAT (%):

PID 1266VID 1845InstructQ-ToF MS (modified) at the Oxford Mass Spectrometry Centre

Technical Evaluation | Submitted 28-Feb-2020 19:55 GMT

Session 1 - Q-ToF MS (modified) at the Oxford Mass Spectrometry Centre

Book Instrument

Sample received

Discussion

Complete this checkpoint

Lipid exchange

Collecting data

Delivering spectra

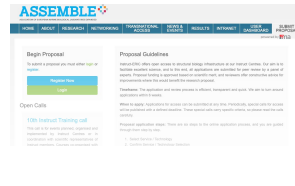
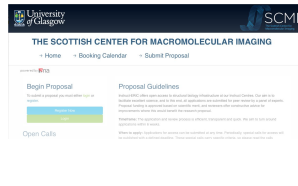
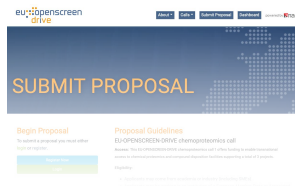
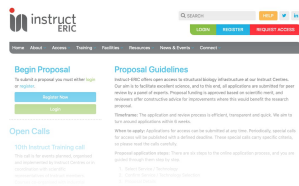
Submit session report

Session feedback

Access Feedback



- Driven by enhancements and increased customisability achieved by work in the CORBEL project, ARIA now supports access more research Infrastructures, projects, and facilities than ever before...



Instruct-ERIC

EU-OPENSREEN

SCMI

ASSEMBLE+

More...

ARIA Access Cloud  
Global Catalogue

## ACKNOWLEDGMENTS



ARIA Development team: Fiona Sanderson, Callum Smith, Markus Povey, Swapna Rekala, Natalie Haley, Denis Nemytov, Mark Reynolds

Work Package 4 (past and present): Frauke Leitner, Christian Popp, Marie Vidal, Sonja Hansen

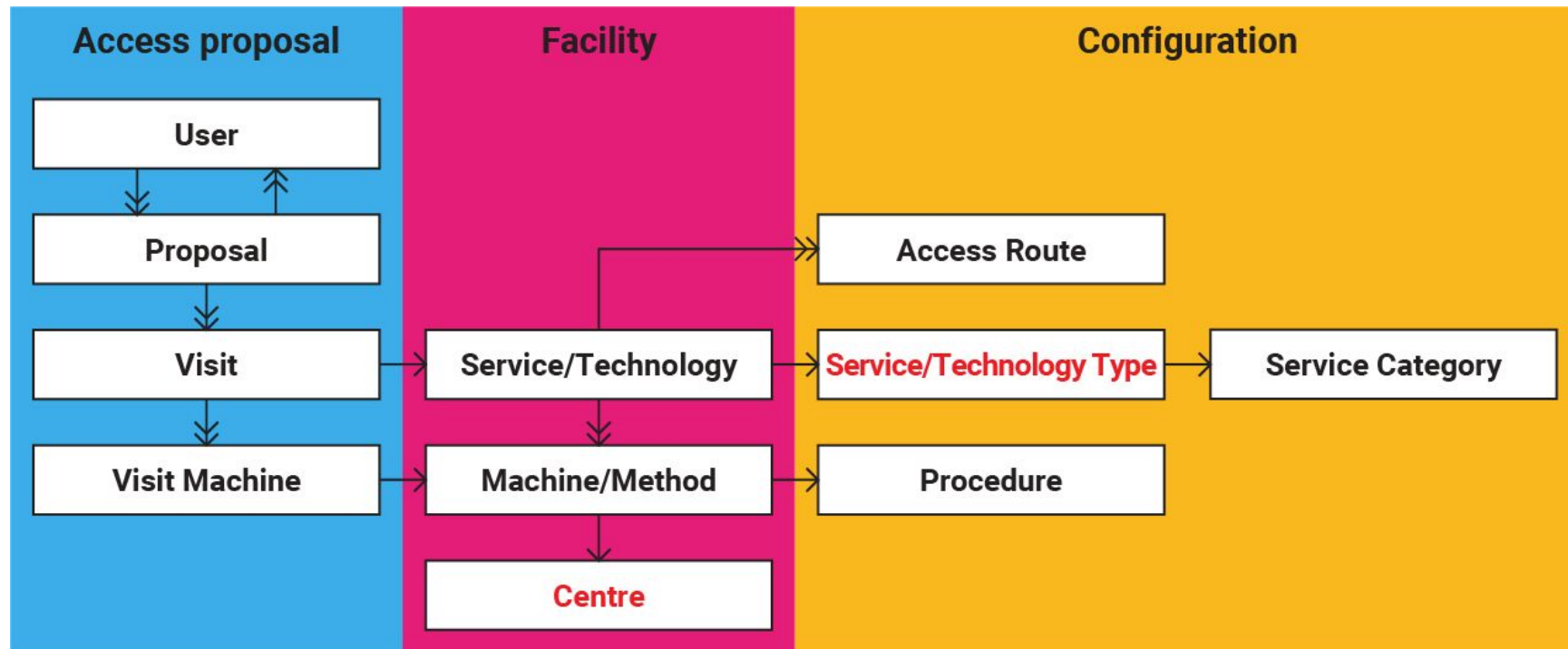
Contact [aria@instruct-eric.eu](mailto:aria@instruct-eric.eu) for any enquiries



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# Additional slides

## Combination of Centres (locations) and Service Types (scientific field) = Research Infrastructure



	First Open Call	Second Open Call
Access Tracks	4	5
Infrastructures	8	10
Services/Technologies	22	30
Machines/Methods	115	154