

Milestone 1.1: Review report of existing access management practices and used access modalities and monitoring tools across RIs

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1 Introduction

This document is prepared in the context of the ATMO-ACCESS project (Solutions for Sustainable Access to Atmospheric Research Facilities), a pilot project funded by the EU to prepare for integration of the research infrastructure services and produce recommendations for establishing a comprehensive and sustainable framework for access to distributed atmospheric Research Infrastructures (RI), ensuring integrated access to the services they provide.

This milestone compiles results of the initial work carried out in WP1 "Developing the concept and guidelines for access to distributed atmospheric Research Infrastructures", for Task 1.1 "Developing common access management concept, procedures and tools for access provision to distributed atmospheric research infrastructures", to investigate, map and analyse the available access management practices and modalities adopted by the existing RIs.

2 Purpose and content the overview

The inventory presented here aims to collect and help recognize effective access practices, tools, and solutions and serves as the required knowledge base to propose a common access management concept for atmospheric RIs.

The purpose of the analysis is to gain hints on possible solutions to ensure sound, efficient and effective access management, learning from other existing RI's experiences.

Accordingly, the scope of the overview covers:

- Access management practices (considering organization, selection process and modes, review)
- Access modalities (i.e., access types and modalities)
- Access monitoring tools

found in:

- ESFRI research infrastructures,
- other non-ESFRI European RIs, and
- some non-European research infrastructures.

2.1 List of studied RIs

The RIs whose access practices were considered for the study are reported in Table 1, with details on the main research domain and life-cycle phase. The survey considers mostly existing distributed Research Infrastructures in the ESFRI Roadmap, starting from those in the Environment domain and also considering RIs in other fields, such as the Health & Food, Energy, e-Infrastructures and Physical Science & Engineering, reviewed to gather complete information. Non-ESFRI European and non-European Research Infrastructures were examined as well.

Of the three RIs participating in ATMO-ACCESS, ACTRIS is the only one currently providing physical or remote access along with wide, virtual access to data. For this reason, it is in the list of studied RIs. ICOS and IAGOS mainly offer access to data and digital services. Both are working together and with ACTRIS in the ATMO-ACCESS WP10 to develop and implement a specific process for VA



to new cross-RI on-line data, computing and training services involving the leading European atmospheric RI data hubs. All details on that are in WP10 milestones and deliverables.

Table 1: Research Infrastructures considered for this study

#	RI Name	Main Scientific Field	Life-cycle phase
1	ACTRIS, Aerosol, Clouds, Trace gases Research Infrastructure	Environment	Implementation (ESFRI Landmark)
2	ANAEE ERIC (Analysis and Experimentation on Ecosystems	Health & Food	Operations (ESFRI Landmark)
3	Argonne national laboratory - University of Chicago	Multidisciplinary (Energy, Engineering, Computer science, Astrophysics, Material science, Nanoscience, etc.	Operations (non-ESFRI, non- European)
4	BBMRI – ERIC Biobanking and BioMolecular Resources RI	Health & Food	Operations (ESFRI Landmark)
5	BRISK, Biofuels Research Infrastructure for Sharing Knowledge	Energy	Operations (European, non ESFRI)
6	CERIC-ERIC, Central European Research Infrastructure Consortium	Materials, biomaterials and nanotechnology.	Operations (non-ESFRI, European)
7	DiSSCo - Distributed System of Scientific Collections	Environment, Natural sciences	Implementation (ESFRI Project)
8	ECORD, European Consortium for Ocean Research Drilling	Environment, Marine	Operations (non-ESFRI, European)
9	e-LTER - Integrated European Long-Term Ecosystem, critical zone and socio-ecological system Research Infrastructure	Environment	Implementation (ESFRI Project)
10	EMSO - European Multidisciplinary Seafloor and water column Observatory	Environment	Implementation (ESFRI Landmark)



4.4	EDOC Furcion Dist	Cardinan t	lead amonto Com /FOFD!
11	EPOS – European Plate Observing System	Environment	Implementation (ESFRI Landmark)
12	ERIGrid (European Research Infrastructure supporting Smart Grid Systems Technology Development)	Energy	Implementation (non-ESFRI, European, H2020 funded project)
13	EUFAR Aisbl (European facility for airborne research)	Environment	Operations (non-ESFRI, European)
14	EURO-BIO IMAGING ERIC (European Research Infrastructure for Imaging Technologies in Biological and Biomedical Sciences)	Health & Food	Operations (ESFRI Landmark)
15	EUROFLEETS	Environment	Implementation (non-ESFRI, European, H2020 funded project)
16	INSTRUCT ERIC (Integrated Structural Biology Infrastructure)	Health & Food	Operations (Landmark)
17	INTERACT (International Network for Research and Monitoring in the Arctic)	Environment	Implementation (non-ESFRI, European, H2020 funded project)
18	JERICO	Environment	Operations (non-ESFRI, European)
19	JRC	Interdisciplinary	Operations (non-ESFRI, European)
20	Laserlab-Europe AISBL	Laser Research	Operations (non-ESFRI, European)
21	MIRRI - Microbial Resource Research Infrastructure	Health & Food	Operations (Landmark)
22	PRACE, Partnership for Advanced Computing in Europe	e-RI	Implementation (Landmark)

All the studied examples have different characteristics suited to their missions and constraints, and offer different solutions for access management. The information contained in this report will set the ground to evaluate pros and cons of each element to help base development of the common access management concept for atmospheric RIs.



3 Existing access management practices

3.1 Access management organization

In the considered RIs, the governance of the access process typically revolves around the central head office of the research infrastructures in charge of managing the infrastructure and operational aspects, among which, considering the RI mission, a relevant role has the management of access to services and facilities for excellent science.

Rare infrastructures that do not align with this general practice have variable degrees of centralization in access management. Plans for access management in the EPOS assign to the Consortium Board (CB) of each Thematic Core Service (TCS) the responsibility for managing TNA within their thematic domain, including:

- Selection of TNA providers,
- Appointment of the Scientific Evaluation Committee,
- Designation of the TNA coordinator (1 per TCS)

So centralized management (or rather central shared co-ordination), but at the intermediate level of the central facilities.

In the US Argonne national laboratory, the multidisciplinary science and engineering research center born out of the University of Chicago's work on the Manhattan Project in the 1940s, access is not centrally managed. Decentralized access management is understandable for the Argonne Lab, considering the comprehensive suite of research facilities it maintains and the wide range of core scientific capabilities, from high-energy physics and materials science to biology and advanced computer science. Each facility open to user research (user facility) receives the access requests directly from the users and manages the access process, which, as a uniform, centralized guideline, needs to involve peer review.

Decentralized access management is implemented also in the BBMRI-ERIC, where the Partner Biobanks negotiate the access directly with the users, and the BBMRI-ERIC Central Executive Management Office only maintains the main tools to facilitate access (Biobank catalogue, Sample/Data Locator and BBMRI-ERIC Negotiator, the IT Service providing a communication platform for biobankers and researchers requesting samples and/or data).

3.1.1 Tools

The digital and non-digital tools used in access management vary widely in sophistication and maturity, reflecting the maturity and access management experience of the RIs.

As for the *digital tools*, RIs in the design/project stage or even in implementation mostly use offline word application forms or, at most, use Google forms or very simple interfaces to collect user access requests. The (very few) more advanced tools have built-in collaboration features to work with teams, automatize workflows, and, in some cases, enable data-driven reports. These software solutions have different degrees of system rigidity, although they all share the ambition to be lightweight, simple, and straightforward to use.

Examples of interesting software tools to take into further consideration are:



- CERIC's Rocket.Chat tool, which connects successful applicants with colleagues and scientists from the CERIC facilities.
- Eurofleets+ Virtual Playground (VP), a web-based tool providing a space of data, information and knowledge in which collaborative research can take place in easy way
- INTERACT Infrastructure Matrix and Access Modality Selection Tool, which help users to identify the most suitable stations and form of access (TA/RA/VA) for their study.
- ACTRIS PASS, Platform for managing user Access to ACTRIS ServiceS, which, compared to other similar tools, seems to offer greater degree of flexibility to host the complexity of different types and forms of access to Xdisciplinary services.

Regarding the services/resources offered to users, almost all RIs have built their digital catalogues, ranging from simple lists of facilities available for access, described in static pages on the RI website, to fully searchable databases with simple and attractive front-ends. These catalogues are, in most advanced cases, interoperable with the EOSC marketplace and other service aggregators. However, with the few exceptions of RIs offering biological and biomedical analytical or imaging services, RIs tend to describe the facilities rather than the services provided.

As for the *non-digital tools*, mature RIs have developed:

- Research Infrastructure Access Agreements, detailing the organisation and management of the user access project by the particular facility and covering any necessary technical and legal aspects,
- User Access Agreement, sort of written contracts between the access provider and the enduser to delineate the actions to be undertaken, the resources allocated, the length of planned user stays, the period of use, rights and obligations of the Parties. These agreements in many cases include intellectual property rights, confidentiality, third party liability, insurances, the documents to be provided by the User, and the rules on the different sites.
- Service Level Agreements (SLAs), defining the level of service the user can reasonably expect from a particular provider, listing expectations of service type and quality, and providing remedies when requirements aren't met.
- Material Transfer Agreements (MTAs), Data Transfer Agreements (DTAs) or Data Access Agreements (DAAs) to govern material transfer between parties, especially in case of remote access

3.2 Access process

3.2.1 Access request

Access is typically provided following user request, submitted in response to a standard or rolling call for access.

RIs that offer access mostly within EU-funded projects typically issue one/two calls per year, or continuous call with cut-off dates. That seems a good compromise between different needs:

- to offer ample opportunities for users to apply and to have adequate time to plan and prepare suitable proposals
- to have a sufficiently high number of proposals to select the best ones



- to distribute the workload for staff and reviewers reasonably and sustainably, avoiding the need for RIs to hire and sustain staff to work on-off on the calls

CERIC-ERIC introduced an innovative two-steps deadline in the semestral call for access. Submission within the first deadline allows a pre-evaluation of the proposal at the facilities and, if necessary, two weeks for editing on the basis of the suggestions received, before final submission at the second deadline.

Calls are typically general, with the topic chosen bottom-up by the user, or topical, with the thematic framework set top-down.

In the great majority of the considered cases, users are recommended to contact access providers before submitting a proposal to make the application process smoother and faster. In the interesting example of EMSO, the access process formally includes a phase for the Joint elaboration of the full project proposal by the user and the provider, which culminates with the submission of the proposal form signed by the user and the facility manager. This practice can be worth consideration, especially where the access is RI funded.

3.2.2 Selection

In almost all cases of RIs considered, user requests undergo selection, which consists of 2, 3, or 4 steps of review based on eligibility (made by the access management office or even the facility), technical considerations for feasibility, and scientific merit.

Eligibility is not only a check of compliance with the EU (in the case of EU-funded TNAs) and internal rules but also of alignment with the RI scientific objectives and strategy.

The feasibility check is carried out preliminarily, typically as a condition for external peer review but in some cases also for application. Applicants for access to BRISK need to obtain and attach written confirmation from the host institution confirming they can accommodate the access and all research will be completed in a timely manner.

In rare cases (for instance, AnaEE, INTERACT) the feasibility check is made after the external review, which focuses on the scientific merit and is performed by external and internal experts composing the RI access evaluation panel.

Access decisions are typically taken by simply acknowledging the results of the peer review or after a final selection by the access team. The only exception among the studied RIs is INTERACT, where the final decisions are taken by the research stations based on the reviewers' recommendations, the feasibility of the projects at the station, station strategy, and focus areas.

Negotiation, rather than selection, is implemented in the BBMRI – ERIC to grant users access to the RI biobanks and their resources. After receiving information on the availability of resources/services, the requester follows up directly with the provider (biobank) in order to provide any additional information needed for the facility to assess whether to grant access. The negotiation is confidential, though happening via the BBMRI-ERIC Negotiator tool, and the provider decides whether to accept the user.



3.2.3 Review criteria

The assessment of access requests largely follows the access modes set out in the EU Access Charter. All the RIs studied adopted the excellence-driven method, and a large number also the market-driven one, defining their own criteria against which to evaluate the proposals.

Discussion on the opportunity to update the EU Charter and the access modes has recently started. However, except for ACTRIS and EURO-BIO IMAGING, the infrastructures seem to have not yet defined and adopted new, more specific modes and criteria reflecting the different types of access requests they receive.

Excellence-driven access is typically assessed against same criteria (scientific and/or technical merit of the project, novelty, impact, appropriateness of the proposed method or approach, scientific/technical excellence of user group,

Interestingly, some RIs also apply, as criteria, the possibility that access enhances the know-how and capacity of the facility accessed, the strategic relevance, the societal challenge addressed. It is also noteworthy that ERIGrid introduced *plagiarism* as an additional criterion in line with the general <u>H2020 strategy</u>; it implies the rejection of proposals with an unjustified high amount of similarity.

Criteria for *market-driven access* typically consider the scientific and technical value, description of work, originality and innovation, quality of the proposing team and strategic relevance.

In addition to the excellence-driven and the market-driven access, ACTRIS introduced two specific access modes to reflect the peculiarities of the services offered to users: the *technical need-driven access*, when access to services is required to meet technological needs to ensure instrument quality (maintenance, calibration, QA), high-performance measurements and operator training; and the *training need-driven access*, when access is needed to fulfil the researchers/operator training needs.

As regards scoring, RIs mostly use numeric ratings to select the best proposals, with scores that vary from 0/1-5, 0/1-10 per each criterion, or, more often, sub-criterion in a given group. EURO BIO IMAGING has no scoring per single criteria, just overall categorization of the proposal (Outstanding, Very good, Good, Average, Poor).

3.2.4 Post-access

The post-access duties required of users who complete their projects at the RIs' facilities are largely the same for the studied cases. All RIs demand users to prepare a final activity report of their research work performed at the facilities, provide feedback, and acknowledge the support and the use of the RI in any publication resulting from access.

EURO-BIO IMAGING is more effective in imposing on users the duty to acknowledge the use of the infrastructure. Users need to report any presentation or publication resulting from the granted access using the appropriate form on the EURO-BIO IMAGING Web Portal. Failure to do may result in users not being able to use EURO-BIO IMAGING services in the future.



3.3 Special access

3.3.1 Fast-track

A few RIs among those studied offer fast track access.

A main example is the CERIC-ERIC, which offers continuous access (no call needed) to some instruments with a quick selection procedure that enables to schedule the access in a month from the request, after only the feasibility evaluation by the facility.

Fast-track access is offered for:

- Feasibility studies: to test feasibility of experiments or measurements
- Commissioning: to perform measurements with newest instruments and contribute to their commissioning
- COVID-19: to contribute to the research on Covid-19.

3.3.2 Private access

Out of the 21 RIs analyzed, only two (JRC and PRACE) have established specific, tailored procedures to process access requests from private users.

PRACE offers European SMEs a specific access program, SHAPE (SME HPC Adoption Programme in Europe), to help them benefit from the expertise and knowledge developed within the RI. SHAPE provides free support to adopt high-performance computing. SHAPE Calls for access run every six months as opposed to the standard bi-annual calls. A particular review panel including also members from the PRACE Industry Advisory Committee and Business Development Officers evaluates the requests. The specific criteria used consider compliance with the objectives of SHAPE, strength of the business case, technical feasibility and commitment of the SMEs to co-invest with PRACE, innovation, socio-economic impact.

In the case of JRC, private users can submit proposals for a pool of JRC infrastructures on a continuous basis. Applications undergo an eligibility check (with respect to ethics and country of location of the User Institutions) and a review by the JRC on a first-come basis. The criteria to evaluate private access proposal assess the scientific implementation (Originality and innovation, Exploitation plan, Quality of the proposing team), access to SMEs and new Users, relevance to EU priorities, regulations and directives, value for the research performed at the JRC infrastructures, importance for European standardisation and harmonisation.

4 Access modalities in use

The different RIs offer physical, remote and virtual access in standard modalities (simultaneous access of the user group to single facilities) or more advanced ones, including hybrid, consecutive access

Some RIs have started pushing towards more innovative access, involving multiple facilities and techniques to support and foster the X-disciplinary research needed to address the current societal challenges.



PRACE has developed three particular access types:

- The Preparatory Access: short-term access to resources, required to prepare proposals for larger Project Access and to demonstrate scalability of codes.
- The Project Access, which is the access to PRACE Tier-0 HPC systems for projects that use previously tested codes with demonstrated high scalability and optimisation.
- The Distributed European Computing Initiative (DECI), for projects requiring access to resources not currently available in the PI's own country and whose projects do not require resources on the very largest (Tier-0) European Supercomputers or very large computational allocations.

4.1 Virtual access

Among the studied RIs, only ERIGrid has introduced, so far, a specific process for VA, following the recent EU recommendations on the subject.

The VA process features:

- User identification through a user login system and automated means of user verification (e.g., mail addresses)
- User Questionnaire: users are diverted to a user questionnaire before being redirected to the web-address of the actual VA infrastructure. In the questionnaire users are asked to provide basic details about the intended use of the VA facility.

Monitoring for VA is ensured by the collection of web analytics for users visiting the VA facilities. The collected statistics are augmented by the inputs provided by the users via the VA user questionnaire.

5 Monitoring tools

Access monitoring is mostly a responsibility of the RIs' Central Hub and covers the quantity and quality of access granted, type of User, geographic distribution, and User satisfaction, etc. Some RIs define specific Key Performance Indicators (KPIs) in the Service Level Agreements, in addition to those general, established in the RIs' work plans.

Access monitoring reports are prepared with the help of the tools supporting access management, which enable, where present, access data collection and data-driven reports. Where access management tools lack reporting functionalities and access tracking features, the monitoring reports are derived by extracting information from the access documents.

6 Conclusions

Most research infrastructures modelled their access policies and practices based on the European Charter of access to Research Infrastructures, seeking to adapt them, to varying degrees, to the needs of their users. That provides for the large, strong similarities detected in the access procedures (esp. steps in the access process, main evaluation criteria, modalities, and governance...).



However, differences become apparent in terms of procedures and policies, where infrastructures largely base funding of their access programs on membership fees. Differences are also in the tools used to perform and ease management (more or less advanced and sophisticated).

There are a few fascinating examples of access modalities to be taken into future consideration (PRACE, JRC, EMSO, ERI-Grid, etc.) and, for the full transparency of access terms, also the models for Service Level Agreements and User Access Agreements developed by JRC, AnaEE, BBMRI.



7 Reference documents

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- European Charter for Access to Research Infrastructures: Principles and guidelines for access and related services. Publications Office of the European Union, 2015. ISBN: 978-92-79-45600-8, doi: 10.2777/524573, KI-04-15-085-EN-N. https://ec.europa.eu/research/infrastructures/pdf/2016_charterforaccessto-ris.pdf
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- 9. Jana Kolar, Ornela De Giacomo, Applicability and challenges related to the Charter for Open Access to Research Infrastructures. http://doi.org/10.5281/zenodo.4475208
- 10. Richard Wessels, Geertje ter Maat, Elisabetta Del Bello, Lucia Cacciola, Fabio Corbi, Gaetano Festa, Francesca Funiciello, George Kaviris, Otto Lange, Jörn Lauterjung, Ronald Pijnenburg, Giuseppe Puglisi, Danilo Reitano, Christian Rønnevik, Piergiorgio Scarlato, Letizia Spampinato, Transnational Access to Research Facilities: an EPOS service to promote multi-domain Solid Earth Sciences in Europe, ANNALS OF GEOPHYSICS, 65, 2, DM214, doi:10.4401/ag-8768, 2022.
- + Websites of all the studied RIs



ANNEX 1 – Inventory of existing access practices, modalities and monitoring tools across RIs

RI Short	Facilities	Access		Access process	Selection	Review Criteria	Access types	Access	Access	User duties	SPECIAL
Name		governance			modes			modalities	monitoring tools		ACCESS
ACTRIS	Topical	- Service		a) Publication of the Call for	- Excellence-	I. Excellence-driven	- Physical,	- Standard:	Monitoring is	Acknowledge	Plans for private
	Centres,	and Access	•	TNA (annual, semestral, topical)		access	remote, virtual	single facility,	carried out by	ment of the	sector access
	Observation	•	- Catalogue of		- Technical	 Scientific and technical 		simultaneous	SAMU with	access terms	and Fast-track /
	Facilities,	(SAMU) of		b) User request, via PASS	need-driven	value (0-15 points, for	(mostly EU	access;	monitoring tools	Feedback	crisis access
	Atmospheric		- PASS Platform		- Market-	Scientific and technical	project funded in		embedded in	provision	
	simulation	Office,	for managing user	c) 3-step selection, via PASS	driven	quality, Impact on	this phase)	multiple	PASS. PASS	Scientific	
	chambers,			c.1 eligibility, by SAMU	- Training	science, Dissemination		facilities, in	enables both	activity report	
	Mobile	for the		c.2 feasibility, by the Facility	need-driven	and exploitation plan)		person/ remote	collection of the		
	facilities	access	- Science and	provider assessing the		 Novelty and innovation 		- Free TNA	main access		
		centralized	User Access	scientific/technical feasibility		(0-15 points, for X-		funded by EU	metrics and		
		mgmt	Forum and	and resources required to serve		disciplinarity, Novel or		projects	gathering of the		
		- Access	Knowledge-base	the users		unconventional access			user feedback		
		evaluation	- Helpdesk	c.3 independent merit review,		approaches, Potential			needed to		
		board		by ad-hoc panels of up to 3		for seeding links with			measure KPIs on		
				reviewers, one of whom acts as		industry and innovation)			the users,		
				Rapporteur. Reviewers' scores		 Quality of the applicant 			quantity and		
				are averaged, then Rapporteur		(0-20 points, for			quality of access		
				summarizes results and		Scientific qualification /			provided, type of		
				produces recommendations		track-record of the user			services		
						group, Gender balance,			requested, user		
				d) access provision, starting		Collaboration and			satisfaction.		
				with the user signing the		access to new Users,			Customized		
				acknowledgement of access		Involvement of students			Access KPIs &		
				terms		/ young scientists)			Service Provision		
									Activity reports are		
				e) post-access requirements,		II. Technical need-			produced at		
				including user scientific activity		driven access			specific intervals		
				report, user feedback		 Technical and 			of time.		
				questionnaire, dissemination of		scientific relevance (0-					
				the project results		25 points, for Relevance					
						of the instrument,					
						Frequency of the					
						technical need, Training					



RI Short	Facilities	Access	Tools	Access process	Selection	Review Criteria	Access types	Access	Access	User duties	SPECIAL
Name		governance			modes			modalities	monitoring tools		ACCESS
						for the staff using the					
						instrument, Interest to					
						the scientific					
						community,					
						Dissemination plan:					
						availability and use of					
						data)					
						 Quality of the applicant 					
						(0-15 points, for					
						References and					
						experience of the user					
						group, Gender balance,					
						Collaboration and					
						access to new Users)					
						III. Market-driven					
						access					
						 Scientific and technical 					
						value (0-10 points, for					
						Scientific and technical					
						quality, Dissemination					
						and exploitation plan)					
						 Innovation and market 					
						potential (0-20 points,					
						for Likelihood of					
						developing a new					
						successful technology /					
						product, Anticipated					
						benefits of the proposed					
						work in comparison to					
						current commercial and					
						emerging technologies,					
						Market potential, Novel					



RI Short Name	Facilities	Access governance	Tools	Access process	Selection modes	Review Criteria	Access types	Access modalities	Access monitoring tools	User duties	SPECIAL ACCESS
						or unconventional			_		
						access approaches)					
						 Quality of the applicant 					
						(0-15 points, for					
						References, capabilities					
						and experience of the					
						user group/company,					
						Gender balance,					
						Collaboration and					
						access to new Users)					
						IV. Training need- driven					
						Scientific/learning					
						objectives and					
						motivation (0-15 points,					
						for Relevance of the					
						scientific and training					
						objectives, Relevance of					
						the training for the user					
						current/future position,					
						Relevance of the					
						training for the					
						belonging organization,					
						Multiplier effect of the					
						training)					
						 Quality of the applicant 					
						(0-25 points, for					
						Academic achievement,					
						Gender balance,					
						Collaboration and					
						access to new Users,					
						Involvement of students					
						/ young scientists,					



RI Short Name	Facilities	Access governance		Access process	Selection modes	Review Criteria	Access types	Access modalities	Access monitoring tools		SPECIAL ACCESS
Hame		governance			moucs	Potential for seeding		modantics	monitoring tools		ACCECC
						links with industry and					
						innovation)					
ANAEE	Open-air	- Central	- Searchable list	a) Application, consisting of a	- Scientific	Scientific excellence	- Physical,	- Standard:	Monitoring is a	- Acceptance	None
ERIC	platforms	Hub,		short Pre-proposal	review (exc	and novelty	remote, virtual	single facility,	responsibility of	of the access	
	Enclosed		,	b) 2-step selection:	driven)	 Scientific expertise of 	- national,	simultaneous	the Central Hub	terms	
	platforms	for the	allowing basic	- Scientific evaluation and, upon	- Technical	·	transnational	access;	and covers the	- Acceptance	
	Analytical	central	search of the	positive review	review	members		- non-standard:	quantity and	of the user	
	platforms	managemen	facilities, with	- provider's confirmation of the	(feasibility +	 Potential impact of 		multiple	quality of Access	duties in	
	Modelling	t of the	descriptive, static	technical feasibility, and	pricing)	expected results		facilities, in	granted, type of	appendix to	
	platforms	access	facilities	quotation of the service costs	- Review for	Usage of national		person/ remote	User, geographic	platform	
	ľ	- AnaEE	presentations	c) project optimization, following	private users	access, TNA, and VA		- NO FREE	distribution, and	service legal	
		Project	- Dedicated web	suggestions from reviewers and		 Scientific feasibility 		access, access	User satisfaction,	agreement	
		Review	interface (in the	providers. The optimized project		 Technical and 		is paid with	etc.	(SLA)	
		Committee	RI web portal) for	proposal is then submitted to a		scientific compliance		funds the users	KPIs, to be	- activity report	
		(PRC,	application	funding body (external)		and complementarity		get elsewhere	monitored by the		
		independent	submission. Very	d) Access provision (for funded		with the long-term		(AnaEE is not a	Platforms, will be		
		from AnaEE	basic form (similar	projects): AnaEE processing		integrity of the		funding body for	defined in the		
		ERIC)	to a Google form)	and scheduling on the relevant		platform(s)		the user projects	SLAs.		
		entrusted	to collect the main	platforms. If the funded project		 Carrying capacity of 		to be realized on			
		with review	idea and	proposal was changed		platform(s)		its platforms)			
		of requests	objectives.	compared to the optimized and		 Compliance of the 					
			- possibility of	validated project proposal (in		DMP with platform's and					
			specific calls for	step b), step b is repeated		AnaEE criteria					
			access to AnaEE			 Usage of national 					
			platforms			access, TNA, and VA.					
			- Platform service			For private user					
			legal agreements			review:					
			(SLA)			Rules for scientific and					
						technical evaluation,					
						access to the data, and					
						IPR are defined in a					
						prior agreement made					
						with AnaEE.					



RI Short	Facilities	Access	Tools	Access process	Selection	Review Criteria	Access types	Access	Access	User duties	SPECIAL
Name		governance			modes		,	modalities	monitoring tools		ACCESS
Argonne	From	Argonne's	- User	a) Establishment of a user	Excellence-	Scientific and/or	- Physical,	- Non-standard:	Monitoring at	Users have to	None
national	particle	Science and	Agreements:	agreement (or verification that	driven	technical merit of the	remote, virtual	access to	Facility Level, with	publish the	
Lab. (US)	accelerators	Technology	formal legal	one already exists with the user		project, including the	- national,	multiple User	many user	results and	
	to	Partnerships	agreement	organization)		likelihood that the	international	Facilities for	statistics and	acknowledge	
	automotive	and	between the	b) Registration as User (online		research will lead to		multimodal and	metrics collected	the Facilities,	
	testbeds	Outreach	user's employing	database)		new discoveries or		cross-functional	and reported	submit the	
		directorate	institution and the	c) Application, in 2 main types:		fundamental advances		projects.	following the	data products,	
		is the main	host	- Individual Proposal: submitted		within its field, or have		- FREE access	guidelines and	and provide a	
		reference for	institution. Such	by individual investigators or		substantial impact on		for users who	rules established	summary	
		outreach	agreements	small groups typically in		progress in that field or		publish their	by the US	report of the	
		and	protect the	response to an open call for		in other scientific fields.		results	Department of	activity.	
		engagement	interests of both	proposals.		 Appropriateness of the 		- access on a	Energy (User		
		of external	parties by	- Collaboration Proposal: a		proposed method or		cost-recovery	Statistics		
		users.	articulating the	formal self-organized		approach;		basis for	Collection		
			disposition of IP	collaboration of researchers		 Competency of 		proprietary	Practice)		
			and data rights	submits a proposal (large, may		applicant's personnel		research that is	- Users are		
			from the work	involve dozens or even		and adequacy of		not intended for	counted based on		
		managed for	undertaken at the	hundreds of researchers from a		proposed resources.		the public	the completed		
		all the	facility.	number of different institutions		 Reasonableness and 		domain.	registrations,		
		facilities as	- The proposal	who work together to propose		appropriateness of the			physical access is		
			Cabillicololi	experiments)		requested resources for			monitored in the		
				d) Selection, consisting in the		the activity.			facility registry,		
		4.1	•	Peer review by the facility		 Relevance of the 			remote access is		
		the user	via the web and e-	Program Advisory Committee		proposed activities to			monitored with		
			mail.	and the parallel feasibility check		the Facility.			remote logins.		
		which	- No special tools	by Facility PIs		In addition, logistical			- User satisfaction		
			•	e) Completion of the "end of		feasibility, cost, and			monitored with the		
				experiment" survey		programmatic priorities			"end of		
			in meetings of the			in making final decisions			experiment"		
			facilities' Program			on proposed activities.			survey.		
		peer review.	Advisory								
			Committees								
			(PAC)								



RI Short	Facilities	Access	Tools	Access process	Selection	Review Criteria	Access types	Access	Access	User duties	SPECIAL
Name		governance			modes			modalities	monitoring tools		ACCESS
BBMRI –	Biobanks	- BBMRI-	- BBMRI-ERIC	a) Registration of requester	Excellence-	Not defined at central	Mostly remote	BBMRI-ERIC	Monitoring at	Users have to	None at Central
ERIC		ERIC	Directory		driven access	level, as "selection" is		Partner	provider's level.	accept the	level
		Central	(Biobank catal.)	b) Request of samples/data via	recommended	made by BBMRI-ERIC		Biobanks may		ethical	
		Executive	- Sample/Data	the BBMRI-ERIC Negotiator.		Partner Biobanks during		require the		principles in	
		Managemen	Locator: service		ERIC Partner	the negotiation, which is		requesters to		the Access	
		t Office	for searching	c) Access control &	Biobanks	confidential though		partially or fully		policy, comply	
		maintains	preliminary	samples/data delivery: After		happening via the		cover the costs		with the	
		the main	availability	receiving adequate Availability		Negotiator.		incurred in		"Acceptable	
		tools to	information on	Information, the requester				providing		Use Policy of	
		facilitate	samples and data	follows up directly with the		- As access facilitator,		samples and/or		BBMRI-ERIC	
		access	sets.	provider (biobank) in order to		BBMRI-ERIC provides		data. Cost		Services" and	
		(Directory,	- BBMRI-ERIC	provide any		infrastructure		aspects must be		report the	
			Negotiator: IT	additional information needed to		implementing Step-a,		regulated in the		results of the	
		,	Service providing	assess whether access can be		Step-b and Step-f.		MTA/DTA		access	
			a communication	granted. The provider decides		BBMRI-ERIC is not		between the			
			platform for	whether samples/data are		directly involved in Step-		requester and			
			biobankers and	released for the project		c and Step-d.		the BBMRI-			
			researchers	requested. MTA/DTA are signed				ERIC Partner			
			requesting	in this phase				Biobank.			
			samples and/or								
			data, particularly	d) Return of results: Providers							
			when users need	collect reports on project							
			to communicate	outcomes for accountability							
			with multiple	purposes							
			candidate								
				e) Request completion							
			used to file the	notification: BMRI-ERIC Partner							
			request once the	Biobanks are required to inform							
			"negotiation" is	BBMRI-ERIC whether the							
				request has been completed							
			the user report of	successfully or not, and in case							
			results.	report the results.							
			- Material Transfer								
			Agreements								



RI Short	Facilities	Access	Tools	Access process	Selection	Review Criteria	Access types	Access	Access	User duties	SPECIAL
Name		governance		-	modes			modalities	monitoring tools		ACCESS
			(MTAs), Data						_		
			Transfer Agreem.								
			(DTAs) or Data								
			Access Agreem.								
			(DAAs)								
BRISK	Biological	- Project	PDF application	a) 2-step application:	Excellence-	Scientific merit	- Physical,	- Standard:	Standard, project-	Standard	None
	and thermal	coordinators	form	a.1) users first complete the	driven		remote, virtual	single facility,	based	project	
	biomass	take care of		Transnational Access			- only	simultaneous		reporting	
	conversion	centrally		Application Form and submit it			transnational	access;		duties	
	facilities	managing		via email to the host			(funded by EU	- FREE TNA			
		TNA		organization for approval.			projects)	funded by EU			
		requests		Applicants need to obtain				projects			
				written confirmation from the							
		- User		host institution confirming they							
		Selection		can accommodate the access							
		Panel (USP)		and all research will be							
		performs the		completed in a timely manner							
		peer-review		(feasibility).							
				a.2) upon confirmation from							
				provider, the users submit the							
				form to the BRISK2 Project							
				Coordinators uploading it							
				through the website.							
				b) Selection: all BRISK2							
				applications are reviewed by a							
				panel of bioenergy experts							
				comprising two independent							
1				experts and two BRISK2 project							
İ				partners.							

ATMO-ACCESS WP9/ MILESTONE 9.1/MS40



RI Short	Facilities	Access	Tools	Access process	Selection	Review Criteria	Access types	Access	Access	User duties	SPECIAL
Name		governance			modes			modalities	monitoring tools		ACCESS
CERIC-	Analytical	CERIC	- Virtual Unified	a) Publication of the Call for	Scientific	Overall scientific	- Physical,	- Single	Metrics monitored	- publication of	Fast-track for:
ERIC	facilities in	central	Office (VUO)	TNA: 2 calls for proposals per	review	excellence of the	remote, virtual	proposals	through the VUO	results is a	- feasibility
	the fields of	office.	provides the	year, 2 deadlines per each: 1st	(excellence-	project,	- national,	- multi-technique		condition for	studies: to test
	materials,		interface for	at the beginning of the month	driven), upon	 the novelty of the 	transnational,	proposals for up		benefiting	feasibility of
	biomaterials		submission,	(enables a pre-evaluation of the	confirmation of	approach and	international	to 5		from free of	experiments or
	and		travel/shipment	request by the provider and the	the technical	 necessity and 		complementary		charge access	measurements
	nanotechnol		support request /	possibility to improve it), the 2nd	feasibility by	effectiveness of the		techniques			- commissioning
	ogy.		reimbursement,	at the end.	the facility	technique requested for		- Free access			to perform
			feedback and	b) Application, consisting of:		achieving the results.		for non-			measurements
			reporting	- a short Electronic Application				proprietary			with newest
				Form (user data, facility				research, but			instruments and
			- Rocket.Chat	requested, access/service);				with publication			contribute to
			tool to connect	- Proposal Description Form,				of the results,			their
			successful	downloaded, completed and				citation of the			commissioning
				uploaded in the VUO.				facilities and			3) contribute to
			colleagues and	c) 2-step selection:				local contacts			the research on
			scientists from the	c.1 Technical evaluation,				involved.			COVID-19
			CERIC facilities.	performed by the providers to				- partial support			
			The service is	determine the technical				for user's			Evaluation
			available from 6	feasibility.				mobility			consists only of
			months prior the	c.2 Scientific evaluation				- financial and			the feasibility
			beginning of the	performed by a panel of 2				logistic support			assessment by
			planned	independent experts				for the shipment			the facility.
				d) Scheduling: users have to				of the samples			
			1 year after the	place an access request				dedicated to			
				(admittance) to CERIC				remotely			
			measurement.	Laboratories via VUO at least				scheduled			
				three weeks in advance before				measurements			
				the arrival.				for EU users.			
				e) Post-access: experimental							
				report to be uploaded in VUO							
				together with the publication							
				record + User's Survey							



RI Short	Facilities	Access	Tools	Access process	Selection	Review Criteria	Access types	Access	Access	User duties	SPECIAL
Name		governance			modes			modalities	monitoring tools		ACCESS
	Natural history museums, botanic gardens and collection- holding universities	governance - Coord. and Support Office (CSO) - User Selection Panel (50- 50 internal/ external)	- Collection Digitisation Dashboard, summarizing the digitisation status, content and strengths of collections across the community - ELVIS: European Loans and Visits System, a one- stop shop for access that provides a unified way to request	a) Publication of the annual call for TNA/VA b) Application, submitted via the ELVIS. Applicants need to upload a Supporting Statement from a senior peer (not by a staff member from the chosen facility). c) 2-step selection with: c.1: Eligibility, by the CSO c.2: Review by the User Selection Panel. Results of the selection are communicated via email to users. The selection process takes between 12-15 weeks from the deadline.	modes Excellence- driven	Methodology (up to 10 points, weight 30%) Research Excellence	- Physical and virtual access - transnational, via EU funded projects		monitoring tools Standard, project- based	Submit and update the User Evaluation Report.	
			! "	from the deadline. d) access provision e) post-access: User Evaluation Report. It requires that users enter the anticipated scientific output (e.g. peer-reviewed publications, conference contribution) and keep it updated.							



RI Short	Facilities	Access	Tools	Access process	Selection	Review Criteria	Access types	Access	Access		SPECIAL
Name		governance			modes			modalities	monitoring tools		ACCESS
ECORD	Mission-	- EMA	PDF application	a) Call for applications to sail on	Scientific	Scientific excellence	- Physical	- Full	At IODP	Science party	None
	specific	(ECORD	form	the organized expeditions on-	review	 Scientific expertise of 	- Remote (to	participation to	programme level	members are	
	platforms for	Managing		board the research vessels	(excellence-	the applicant	samples)	the expedition:		obliged to	
	IODP	Agency)			driven)	 Availability of travel 		as shipboard		conduct post-	
	expeditions			b) Application to sail, including		support, post-cruise		scientist		expedition	
	(IODP-	- ECORD		information on the funding		funding opportunities		- Shore-based		research on	
	mitomational	Science		scheme and support from the				participation: as		samples	
	Cocan	Support &		belonging institution or national				member of the		and/or data	
	DISCOVCIA	Advisory		funding agencies				expedition's		collected and	
	i rogram,	Committee,						scientific party		publish the	
	11116.	responsible		c) Evaluation and identification				working on data		results.	
	i e se ai ci i	for		of scientists to participate in the				and samples			
	programmo	Coordinating		ECORD Facility Board				during the 12-			
	urilling at	expedition						month			
	30u).	applications,						moratorium			
		nominating						period.			
		shipboard						- no direct			
		participants						financial support			
		and						for participation			
		reviewing						in IODP			
		quotas of						expeditions.			
		shipboard						Funding for			
		scientists						participation is			
		between						responsibility of			
		participating						individual			
		countries.						applicants.			
e-LTER	LTER Sites	- eLTER	- service portfolio	a) Publication of TNA Calls (in	Scientific	For bottom up calls:	- Physical,	- single-site	Standard project-	Enter	None
	(up to 10	Head Office	(initial	the frame of EU funded	review	 Scientific quality (up to 	remote, and	access	based monitoring.	metadata in	
	km²,	- eLTER	development)	projects). 2 types of calls:	(excellence-	5 points, weight 2)	combination	- multiple-site	Password-	eLTERs	
	comprising	PLUS		- bottom-up (topic chosen by the	driven)	 Approach and 	- Virtual access	access	protected file store	Digital Asset	
	mainly one	Access	- eLTERs Digital	user)		methodology (up to 5	to data	- FREE TNA	serving as	Registry for	
	habitat type	Team	Asset Registry	- top-down (thematic framework		points, weight 2)	- Transnational	funded by EU	database of	each of the	
	and form of	- eLTER	al TED DI LIC	set)			(TNA)	projects	proposals, from	variables they	
	land use)	PLUS	- eLTER PLUS						which data are	monitored /	
			TA-RA Proposal								



RI Short	Facilities	Access	Tools	Access process	Selection	Review Criteria	Access types	Access	Access		SPECIAL
Name		governance			modes			modalities	monitoring tools		ACCESS
	and LTSER	selection	Template (MS	b) Application, submitting via		Relevance for eLTER			extracted for	measured /	
	Platforms	panel,	Word document)	email the PDF form		(up to 5 points, weight			monitoring	observed	
	representing	consists of		c) 4-step Evaluation, (10-12		1)			purposes	during the	
	the main	representati	- password-	weeks from the deadline):		For top-down calls:				visit, within	
	habitats,	ves of the	protected file	c.1 Eligibility check, by the		Scientific quality (up to				two weeks	
	land use	Iniotitutionio		eLTER PLUS Access Team		5 points, weight 1,5)				after the visit.	
	forms and	which own		c.2 Plausibility check by site		 Approach and 					
	practices	or operate	proposals	owners		methodology (up to 5					
	relevant for	the sites	- eLTER PLUS	c.3 Scientific evaluation: 1 or 2		points, weight 1,5)					
	broader	made	TA-RA Proposal	individual evaluations		Relation to the chosen					
	regions (up	accessible	Evaluation Form	depending on:		framework (up to 5					
	to 10000	through the	(MS Word	- availability of TNA budget at		points, weight 2)					
	km²)	access	`	the requested site/ provider (1		Final selection:					
		scheme.	document)	evaluation).		evaluation outcomes +					
		Fairness is	- eLTER PLUS TA	- the requested site/provider has		H2020 prioritization					
		guaranteed	Agreement	exceeded the TA budget (2		criteria					
		by the rule	template (MS	evaluations)							
		that nobody	Word document)	- Multi-site proposals (2							
		may	Viola accamone	independent evaluations).							
		evaluate	- eLTER PLUS TA	In case of discordant							
		proposals	Reporting	evaluations, a third is							
		requesting	template (MS	performed.							
		access to	Word document)	c.4 Final Selection, by eLTER							
		their own	,	PLUS Access Team.							
		site, nor by		d) Post-access: Metadata entry							
		users from		in eLTERs Digital Asset							
		their own		Registry + Report completion							
		country.		,							
EMSO	12 Reg.	- EMSO	- Data portal	a) Publication of annual call for	Scientific	Scientific and technical	-Virtual access	EMSO ERIC	internal database	Signature of	None
	_	physical		TNA. Pilot 2022 TNA call 8	review	objectives (up to 10	From 2022	provides direct	of received	the contract	
		access	- Website page	month opening, four cut-off	(excellence-	, ,	(pilot):	funding for the	proposals	specifying all	
	key sites	coordinator	describing the 4	dates	driven)	'	MoA 1 Remote:	_		duties and	
	around		Facilities offering			methodology and	user presence	related to the		details of the	
	Europe.	- EMSO	physical access,			implementation (up to	not required			project	
	1	ERIC	including the			, , , , ,					



RI Short	Facilities	Access	Tools	•	Selection	Review Criteria	Access types	Access	Access	User duties	SPECIAL
Name		governance			modes			modalities	monitoring tools		ACCESS
	Observatori	Engineering	details of the	b) Letter of intent, sent by the		10 points, threshold is	MoA 1a Access	following costs			
	es are	and	provision	interested user with one-page		7)	that	categories:			
	platforms	Logistics		proposal		 Scientific/Technical 	contemplates	- Operations			
	equipped	Officer	- EMSO physical			Excellence of user	the hosting and	- Hardware			
	with multiple		access dedicated	c) Host facility assignment,		group (up to 10 points,	monitoring of	adaptations			
	sensors,	- Evaluation	email	based on the choice in the		threshold is 7)	one or more	- Shipping of			
	placed along	Panel.	- Letter of intent	project proposal. The host		 International 	sensors or the	equipment			
	the water		template (MS	facility ascertains feasibility and		collaboration. 4 points if	exclusive use of	- Consumabl.			
	column and		Word doc.)	contacts the user for the next		the user is from a	one or more of	Maximum			
	on the		(vvora doc.)	phase		different country than	the Facility's	amount of the			
	seafloor.		- EMSO ERIC			that of the access	sensors for the	funding per			
			Physical Access	d) Joint elaboration of the full		provider. 3 points if the	experiment.	project proposal			
	4 facilities		, 5.00 / 100000	project proposal. The proposal		user group is	MoA 1b Access	is up to 8.000			
	offer		Proposal	submission form is signed by		multinational (up to 7	for training	EUR. There is			
	physical		Submission Form	the user and the facility		points, threshold is 3)	remotely and	also a budget			
	access in		(MS Word doc.),	manager		Bonus points. Links or	having virtual	for travel of			
	2022		rather long and			potential for seeding	access to the	members of the			
			detailed	e) Evaluation, by a panel		links with European	lab.	user team or			
				formed of 3 experts from EMSO		Industry (for Research		host facility			
			- Waiting list: if	ERIC. One month is the		Institutions) or	MoA 2:	personnel that			
			proposals pass	expected time needed to		Innovation and potential	Partially	can reach 3.000			
			the threshold but	evaluate all proposals		new products or patents	remote: user	EUR per project.			
			other proposals			(for SMEs and	presence				
			with higher scores	f) Contract signature: three-		Industries) - Up to 8	required at				
			consume the	party written contract between		points	some stage.				
			budget available	the "Access Provider", the "End							
			for the	User" and the "Call Coordinator"			MoA 3: In				
			intermediate call,				-person				
				g) Project execution			("handson"):				
			ones can enter the				user presence				
			next intermediate				required				
			call without the				MoA 3a: Access				
			need to be				for hosting and				
			evaluated again				monitoring of				



RI Short	Facilities	Access	Tools	Access process	Selection	Review Criteria	Access types	Access	Access	User duties	SPECIAL
Name		governance			modes			modalities	monitoring tools		ACCESS
							one or more				
							sensors or the				
							exclusive use of				
							one or more of				
							the Facility's				
							sensors for the				
							experiment. The				
							user is present				
							at the Facility's				
							lab/site/cruise.				
							MoA 3b -				
							Access for				
							training on-site				
							with a host				
							expert. It does				
							not include				
							sensor hosting.				
							- national,				
							transnational				
							and international				
							access (no				
							restrictions for				
							the user country				
							of origin)				
EPOS				Pilot TNA provision by TCS	Excellence -	Scientific excellence	- So far virtual	- Standard:	Standard, project-	Standard	None
		, ,		MSL and VO based on:	driven	 Originality 	access to	access to single	based	project	
	(laboratories			a) publication of TNA calls	Market-driven	 Quality 	multidisciplinary	•		reporting	
			hub (ICS-C)				solid Earth	- Free access		duties	
	,			b) user submission of project			science data,	(funded in EU			
	solid Earth	domain,	discover and	proposals			data products,	projects)			
	science in	including:	access data and				services				
	Europe.	- selection of	data products	c) 3-step review phase,			- physical and				
	Thematic	TNA provid.,	available as well	including:			remote access				



RI Short		Access	Tools	Access process	Selection	Review Criteria	Access types	Access	Access		SPECIAL
Name		governance			modes			modalities	monitoring tools		ACCESS
	Core			c.1 Eligibility, by the TNA			to facilities is in				
		Scientific	service for	coordinator			planning phase				
	(TCS)	Evaluation	integrating and	c.2 Feasibility, by the TNA			(TNA				
	Multi-scale	Committee	analyzing	provider			programme still				
	Laboratories	(SEC),	multidisciplinary	c.3 Scientific peer-review			to be				
	(MSL) and	- appoint. of	data.				implemented)				
	the Volcano	the TNA		d) access phase, with signing of							
	Observation	coordinator	-TNA Brokering	user-provider access							
	s (VO)	(1 per TCS)	Service to provide	agreements							
	provided		a cross-TCS								
	pilot	•TNA	catalogue of the	e) reporting phase, post-access							
	physical	coordinators	TNA possibilities								
	access	sign collab.	offered								
		agreements									
		with the	- user application								
		ERIC and	forms (Google								
		the TNA	form)								
		providers	- user feedback								
		establishing	forms								
		requirem.	Tomio								
		and financial									
		regulations									
		for TNA.									
		• TNA									
		Scientific									
		Evaluation									
		Committee									
ERIGrid		- TA Work	- TA Labs Gallery	a) Publication of the TNA Call	Scientific	General quality of the	- Physical,	- Standard:	- Standard project-	- Sign user	None
		Package	(in the RI web	(every 4 months, open for 3)	review	proposal (score: 0-10)	remote, virtual		based monitoring		
		coordinators	,		(excellence-	Scientific/technical	- transnational	lab	for TA	- publish	
	l.	and team	descriptive, static	b) Submission of the User	driven)	merit (score: 0-10):	(TNA)	- non-standard:		results	
	testing,		facilities	Proposals via via ConfTool	,			multi-site user	- For VA:		
	smart grids		presentations in	(registration needed)			Process for VA:	project	collection of web		



RI Short		Access	Tools	Access process	Selection	Review Criteria	Access types	Access	Access		SPECIAL
Name		governance			modes			modalities	monitoring tools		ACCESS
	and energy	- User	dedicated			Improve know-how	- User	- Free access	analytics for users		
		Selection	, •	c) Evaluation of the User		and capacity of the lab	identification	(funded in EU	visiting the VA		
	`	Panel (USP)	ConfTeel Dreiset	Proposals (1-2 months after the		(score: 0-10)	through a user	projects)	facilities.		
	simulation		- ConfTool Project	deadline):		 Compliance with EU 	login system		The collected		
	facilities)			c.1 Pre-screening, by the Lab		policies and priorities	and automated		statistics are		
				PI, assessing the technical,		(score: 0-10)	means of user		augmented by the		
			I_ LICAT SIINNAIT	economic and organisational			verification (e.g.,		inputs provided by		
			Forum for VA	feasibility		Final score calculated	mail addresses)		the users via the		
			providers	c.2 Evaluation by the User		as the mean value of	- User		VA user		
			(Discourse)	Selection Panel (each proposal		the scores issued by	Questionnaire:		questionnaire		
			(Discourse)	by at least three experts)		USP members,	users are				
						expressed in % over the	diverted to a				
				d) Proposal Selection and		maximum of 40 points:	user				
				Notification to the User		• Excellent (75-100%)	questionnaire				
						• Good (50-75%)	before being				
				e) Access to the Lab:		• Fair (25-50%)	redirected				
				e.1 Signature of the Contract		• Poor (0-25%)>	to the web-				
				between the Lab and the user		'Poor'-scored proposals	address of the				
				e.2 assistance to the user		are normally rejected.	actual VA				
				e.3 Declaration of Use of the			infrastructure. In				
				Lab, by the user		Additional criterion is	the				
						Plagiarism: proposals	questionnaire				
				f) Reporting and Dissemination		with unjustified high	users are asked				
				of the Project Results (user		amount of similarity will	to provide basic				
				feedback questionnaire and		be rejected.	details about the				
				project technical report)			intended use of				
				. ,			the VA facility.				
EUFAR	Research	- Executive	- Central data	a) TNA Call opening	- Scientific	Quality and impact of	- Physical,	- Standard,	Standard, project-	Standard,	None
	aircraft and	secretariat	archive		review	the science	remote, virtual	single facility	based	project-based	
	instruments	- Selection		b) Expression of Interest (EoI)	(excellence-	 Impact on the users 	- transnational	-free access		j. ,	
		panel		for Transnational Access, via	driven)	(project are better		(project funded			
				online form in the website	,	evaluated if they can	. ,	TNA)			
						identify a large potential		,			
						user base).					



RI Short Name	Facilities	Access		-	Selection modes	Review Criteria	Access types	Access modalities	Access monitoring tools		SPECIAL ACCESS
name		governance			modes			modanties	monitoring tools		ACCESS
				c) Eol circulation to EUFAR		Facility of the second					
				aircraft operators and other		For Instrument					
				EUFAR expert scientists to		development:					
				provide feedback on scientific		Perceived demand for,					
				and technical aspects of the		and scientific impact of,					
				proposed work and on the		the new instrument.					
				opportunities to cluster it with		 ability to cluster with 					
				other existing or proposed flight		other projects to					
				activities		increases the cost-					
						effectiveness of the					
						flying.					
EURO-	Biological	Central Hub	- Searchable list of	a) Application	Scientific	Scientific review:	- Physical,	- Standard:	Standard, via the	- Fill in the	None
BIO	and		available imaging		review	- Significance /	remote, virtual	single facility	Euro-BioImaging	required	
IMAGING	biomedical		technologies,	b) (optional) scientific advice	(excellence-	importance of the	- national,	- NO FREE	Web Portal	feedback	
ERIC	imaging		directly linked to	from an external expert: this	driven)	project for international	international and	access. A list of		form(s) on the	
	facilities		the proposal	step can be faster or even		research and standards	transnational.	the funding		Euro-	
	(nodes)		submission form	skipped if the user project has	Special	in the field,	The latter in	opportunities at		Biolmaging	
	,			undergone some type of	selection for	- Progress beyond	case of EU	different levels		Web Portal;	
			- Web access	scientific evaluation before (to	training	state-of-the-art	projects funding	is available in			
			application in the	receive the needed funds)	requests	- Scientific quality of the	' '	the web portal to		- Acknowledge	
			Euro-BioImaging	,	,	research and study		help users seek		Euro-Biol. in	
			Portal featuring a	c) technical feasibility check by		concept		funds to cover		any	
				the provider		- Benefit for applicant		the access.		presentation	
			The application			(e.g. training received,				or publication	
			only enable	d) selection, performed by 2		results obtained,				containing	
			submission of the	invited scientific experts		scientific networking				results	
			proposal form,	The second of th		started) Impact of				obtained	
			sending	e) Submission of post-access		project on field of				during a Euro-	
			messages, track	feedback		science, economy and				Bio. Techn.	
			the status of the	Todabaok		society.				access visit;	
			proposal and send			occioty.				doocoo vioit,	
			the feedback after			No scoring per single				- report any	
			the end of the			criteria, just overall				such	
			access.			categorization of the				presentation	
						categorization or tile				presentation	



		Access		Access process		Review Criteria	Access types				SPECIAL
Name		governance			modes			modalities	monitoring tools		ACCESS
						proposal (Outstanding,				or publication	
						Very good, Good,				to Euro-Biol.	
						Average, Poor)				using the	
										appropriate	
						 Selection for training 				form on the	
						requests:				Euro-Biolm.	
						applications for the high				Web Portal.	
						and advanced courses				Failure to do	
						are handled at facility				(a)-(c) may	
						level and selection is				result in users	
						typically based on the				not being able	
						relevance of the course				to use Euro-	
						for the student.				Biol. services	
										in the future.	
EUROFLE	Advanced	- EUROFL.	- Portable	a) Publication of the call	Excellence-	 Scientific and technical 	- Physical,	Standard, single	Standard, project	Standard,	None
ETS	research	Evaluation	telepresence		driven Access	quality of the ship-time	remote	vessel	based	project based	
	vessel	Office	system to enable	b) Application, via the	mode	proposal	- transnational				
	operators in	 Scientific 	remote access by	submission portal		 Quality of the work 	(project-funded)				
	Europe,	Liaison	researchers			programme					
	North	Panel, in		c) 3-step selection:		Scientific					
	America and	charge of		c.1 - Evaluation by external		qualification/track record					
	Oceania	the final	submission portal	experts		of the proposing PI and					
		selection	- Eurofleets+	c.2 - Selection by the Scientific		user group					
		-Operational	Virtual Playground	Liaison Panel		 Technical capability to 					
		Liaison	(VP), a web-based	c.3 Logistic evaluation of		carry out the research					
		Panel OLP),	tool providing a	proposals ranked as excellent		cruise and data					
		consisting of	space of data,	by the OLP		exploitation					
			information and			 Collaboration with 					
		RV	knowledge in			international /national					
		operators.	which			partners/industry					
			collaborative			 Training of young 					
			research can take			scientists/ public					
			place in easy way			outreach					
			piace ili easy way								



RI Short	Facilities	Access	Tools	Access process	Selection	Review Criteria	Access types	Access	Access	User duties	SPECIAL
Name		governance		•	modes		,	modalities	monitoring tools		ACCESS
INSTRUC	Structural	- Instruct-	- ARIA platform for	a) Application (anytime, via	Scientific	 Field and scope of 	- national,	- Integrated	Embedded in	- Access	None
T ERIC	biology	ERIC hub	access	ARIA). Special (topical) calls for	review	research (0-1)	transnational	access proposal	ARIA	activity reports	
	laboratories	(manages	management	access are published from time	(excellence-	 Impact of the research 		(multiple techn.)		at the end of	
	and facilities	the peer	-	to time with a defined deadline	driven)	(0-3)		- standard		access	
		review	- Access			 Preliminary data and 		access proposal			
		process,	Catalogue listing	b) scientific eligibility by a		Plan B (0-3)		to single			
		collects	technologies and	Moderator, based upon		 Strengths and 		technologies/fac			
		metrics and	services offered,	alignment with Instruct-ERIC's		weaknesses (0-1)		ility			
		provides	linked to ARIa	mission of integrated structural				- Free access to			
		support to	- User appeal vs	biology.		Maximum score = 8		researchers			
		users and	rejection decisions			Threshold for		coming from			
		facilities)	rejection decisions	c) Evaluation, by three		acceptance = 6		member			
		- Panel of		reviewers (one internal and two		Revision required =		countries			
		reviewers		external).		scores 3-5		(access is			
						Rejected = scores 0-2		funded with the			
				d) Final decisions, made by the				annual			
				Access Committee, based upon				subscription to			
				the recommendation of the				Instruct-ERIC).			
				Moderator, without prejudice to				They can also			
				the right of a facility to decline				apply for partial			
				access. All facilities have a local				funding of T&S			
				right of veto for access without				costs (up to			
				justification.				€400)			
								- Researchers			
				e) Access reports, after the end				from non-			
								member			
								countries pay an			
								Academic rate			
								fee, and agree			
								to publish			
								results			
								- Access			
								provided on a			
								service basis			



RI Short	Facilities	Access	Tools	Access process	Selection	Review Criteria	Access types	Access	Access		SPECIAL
Name		governance			modes			modalities	monitoring tools		ACCESS
								(subject to fee,			
								non-Academic			
								rate) for			
								commercial use			
								- Free TNA			
								access in case			
								of EU-funded			
								projects			
INTERAC	State-of-the	- Transnat.	- Data Forum	a) Publication of the call	Scientific	 Scientific quality of the 	•	- Access to	Monitoring Tools	Successful	None
T	art terrestrial		List of a citable		review	planned research (score		single facility	embedded in	applicants are	
		office	- List of available	b) Application, via	(excellence-	1-5)	- transnational	and to multiple	INTERACCESS	required to	
	and	- Transnat.	platforms for	INTERACCESS	driven)	 Scientific merits of the 		- Free access		- Agree to	
	_	Access	access			TA User Group leader		(funded in EU		their project	
	stations, and	·	- Infrastructure	c) 3-step Evaluation (4 months):		(score 1-5)		projects)		name and	
	_	defining the	Matrix and	c.1 eligibility check, by the TNA		 Relevance of the 				description	
		calls and	Access Modality	office		planned research for				being	
		taking care	Selection Tool	c.2 scientific evaluation, by the		INTERACT goals				published on	
	"	of the	help users to	TA Board. TA Board		(score 1-5)				INTERACT	
		scientific	identify the most	recommends user groups for TA		 Value for money 				website	
		review. It	suitable stations	to the research stations		(score 1-5)				- Provide a	
		consists of 8	and form of	c.3 TA decisions, taken by the						Project	
		experts	access	research stations based on the						Summary	
		external to	(TA/RA/VA) for	recommendations, feasibility of						Report on	
		INTERACT	their study.	the projects at the station,						results	
		and 8	,	station strategy and focus areas						obtained	
		representati	- INTERACCESS,	etc.						during the	
		ves of	online tool for	N TA/DA L ::						visit(s)	
		stations in	managing the TA	d) TA/RA decisions are sent to						- Publish the	
		particular	and RA	applicants via INTERACCESS						results within	
		geographic	applications,	and the user accepts/refuses						a reasonable	
		regions	evaluations and	the access granted						time in open	
			granting							literature,	
1			procedures, as	e) Post-access activity report						specifying in	
			well as the								



RI Short	Facilities	Access	Tools	Access process	Selection	Review Criteria	Access types	Access	Access		SPECIAL
Name		governance			modes			modalities	monitoring tools		ACCESS
			management of							Acknowledge	
			users groups and							ments	
			reporting.								
			- INTERACT VA								
			Single-Entry Point								
			(a Data portal),								
			providing Virtual								
			Access and								
			related data								
			products and								
			services								
JERICO	European	- TA mgmt.	 Written contract 	a) Publication of the TA call	Scientific	Scientific and/or	- Physical,	- Project-funded	Standard, project	Standard,	None
	Coastal	team	or agreement		review	technological excellence	virtual	TNA	based	project based	
	Observatori		between the	b) Application, submitting via	(excellence-	of user group (score 0-					
	es and	- Selection	"Access Provider"	email the form to the access	driven)	5)					
	Calibration	Panel (SP)	and the "End	officer		 Scientific and technical 					
	Facilities		User" to delineate			value of the project					
	(fixed platf.,		the actions to be	c) 4-step selection:		(score 0-5)					
	gliders,		undertaken,	c.1 Eligibility check by the TA		 Quality of the work 					
	cabled		resources	management team		plan (score 0-5)					
	observ.,		allocated, length	c.2 Feasibility assessment by		 Potential for seeding 					
	ferryboxes,		of planned user	the facility operator		links with industry and /					
	calibration			c.3 Evaluation, by members of		or potential application					
	labs)			the SP		to stakeholders (score					
	,			c.4 Final selection by the SP		0-5)					
			Parties.	,		• European relevance					
				d) Post-access requirements:		and interests for the					
				activity report		scientific community					
				''		(score 0-5)					
						(333.3 0 0)					
						Proposals are accepted					
						if they receive a total					
]						score that is ≥15.					



RI Short	Facilities	Access	Tools	Access process	Selection	Review Criteria	Access types	Access	Access		SPECIAL
Name		governance			modes			modalities	monitoring tools		ACCESS
JRC	Scientific	- User	- Research	I - Relevance-driven access	- Relevance-	I. Relevance driven	- Physical,	I. Relevance-		- Users should	See the market
	laboratories	Selection	Infrastructure	I.a) Publication of calls for	driven access,	access	remote, virtual	driven access		acknowledge	driven access
	and facilities	Committee,	Access	proposals at the EU Science	exclusively	Scientific		entails costs.		contribution of	
	in the fields	composed	Agreement	Hub, for a pool of JRC	dependent on	implementation (50		Users are		the Research	
	of nuclear	of experts	(details the			points, for Scientific and		charged the		Infrastructure	
	safety and	from	organisation and		socio-	technical value,		additional costs		in any output (
	security	academia	management of	through the EU Science Hub	economic	description of work,		associated (i.eth		publication,	
	`	and	the User Access		relevance at	originality and		e variable costs		patent, data,	
	Labs), chem	research	project by the	I.c) Eligibility check (with	European	innovation,		related to		etc.) deriving	
	istry,	institutions	facility and will		level	dissemination and		access).		from research	
	biosciences/	at European	cover any	location of the User Institutions)		exploitation plan, quality		Payment may		conducted	
	life	level and a	necessary	by the JRC	- Market-	of the proposing team)		be a monetary		within its	
	sciences,	JRC official.	technical and legal	I.d) Evaluation , by the User	driven access	 Collaboration and 		payment or in		realms	
	physical		aspects)	Selection Committee, which		access to new Users		the form of			
	sciences,			also carries out and discuss		(20 points, for		economically			
	ICT,		- User Access	evaluation for cost and		Uniqueness and		valuable in-kind			
	Foresight.		Agreement	feasibility		availability of similar		contribut.			
			(covers legal	I.e) Research Infrastructure		facilities and expertise		(consumables,			
			aspects including	Access Agreement, signed after		in any of the Users		instrumentation,			
			intellectual	negotiation between the user		Institution's countries,		testing rigs, or			
			property rights,	and the facilities covering all		Previous use of the RI		provision of			
			confidentiality,	details of the access and the		by any User or User		human			
			third party liability,	project		Institution, Training		resources).			
			insurances, the			and involvement of		II. Market-			
			documents to be	II - Market-driven access:		young scientists,		driven access			
			provided by the	II.a) Announcement of calls for		Synergies and		- granted upon			
			User, and the	proposals allowing to submit, on		complementarities with		payment of a			
			rules on the JRC	a continuous basis, market-		existing research		fee covering the			
			sites)	driven proposals for a pool of		projects and the		full access costs			
				JRC infrastructures		ESFRI/ERIC		of the JRC.			
				II.b) Proposal submission		Strategic relevance					
				II.c) Eligibility check (with		(30 points, for relevance		- The JRC may			
				respect to ethics and country of		to priority topics of the		provide a			
						RI(s), Importance for EU		financial or in-			



RI Short	Facilities	Access	Tools	Access process	Selection	Review Criteria	Access types	Access	Access	User duties	SPECIAL
Name		governance			modes			modalities	monitoring tools		ACCESS
				location of the User Institutions)		standardisation and		kind contrib. to			
				by the JRC		harmonisation,		support Users to			
				II.d) Proposal review proposals		Importance for EU		cover their costs			
				by the JRC on a first-come		integration and		of travel and			
				basis		cohesion).		subsistence			
				Following steps are the same as		II. Market-driven					
				for the I.		access					
						 Scientific 					
						implementation (50					
						points, for Scientific and					
						technical value,					
						description of work,					
						Originality and					
						innovation, Exploitation					
						plan, Quality of the					
						proposing team)					
						 Access to SMEs and 					
						new Users (20 points,					
						for Uniqueness and					
						availability of similar					
						facilities and expertise					
						in any of the Users					
						Institution's					
						countries, Previous use					
						of the RI by any User or					
						User Institution,					
						Participation of SMEs)					
						 Strategic relevance 					
						(30 points, for relevance					
						to EU priorities,					
						regulations and					
						directives, Value for the					
						research performed at					



RI Short Name	Facilities	Access governance	Tools	Access process	Selection modes	Review Criteria		Access modalities	Access monitoring tools		SPECIAL ACCESS
	46 leading laser research infrastructur es in 22 European countries	- Laserlab- Europe Access Board - Laserlab- Europe Users Selection	- Catalogue of technologies and services - LASERLAB-EUROPE Electronic Proposal Management System (ARIA).	a) Publication of the call b) Application, via ARIA. Applications to a number of facilities have different forms and are handled at facility level c) Evaluation: c.1 eligibility check, performed by the host facility c.2 scientific review by external referees, who recommend proposals to the USP c.3 final selection by the USP d) post-access: Project	Scientific review (excellence- driven)	the JRC infrastructures, Importance for EU standardisation and harmonisation). Thresholds (for I-II): a minimum of 30 points for the criteria of "Scientific Impl.", and a minimum total (considering all criteria) of 60 points. Scientific merit, taking into account the interest of the Community	- Physical, remote, virtual	- Access to single facility and to multiple	Standard, project-	Standard, project-based	None
MIRRI	Microbial domain Biological Resource		- Catalogues of services (for general services, and for	Summary Report, Laserlab User Group Questionnaire a) Initial contact with the Access Officer, who guides the applicants throughout the process and interacts with	'- Excellence- driven - Market- driven		'- Physical, remote, virtual - national, transnational	- Access to single facility and to multiple	Standard, project based	Successful users need to: - sign User Access	None
	IV6900106		and 101	process and interacts with	unven		แสกรกสเปกส			AUUUUSS	



RI Short	Facilities	Access	Tools	Access process	Selection	Review Criteria	Access types	Access	Access		SPECIAL
Name		governance			modes			modalities	monitoring tools		ACCESS
	Centres	- Access	Application-	Liaison Officer to verify the	- Technical	Originality and impact		- Free or		Contract and	
	(mBRCs)	officer,	Specific Services,	feasibility of the project.	need-driven	of the research project		partially-free		Material	
		coordinating	i.e. provided by			(score 1-20)		access is		Transfer	
		the process	more than 1	b) Proposal submission:		 Scientific Approach 		provided only to		Agreement	
		and	organization and	- for excellence driven access in		(score 1-15)		the best rated		(MTA)	
		performing	tackling strategic	response to a call funding TNA		 Knowledge and 		proposals in		 provide final 	
		the eligibility	areas	- for market-driven or technical		expertise of the		excellence-		activity reports	
		check		need-driven access anytime,		applicant (score 1-10)		driven access		- disseminate	
			- Catalogue of	contacting the access officer.				mode, and only		and	
		- Liaison	microbial			- For market-driven and		within a project		acknowledge	
		Officer,	resources (and	c) Scientific review by members		technical need-driven		that funds TNA.		the RI	
		performing	associated data)	of the USP		access a contract is		- User fees for			
		the				established between the		market-driven			
		feasibility		d) Access		User and MIRRI-ERIC,		and technical			
		check				which defines		need-driven			
		- User		e) Post-Access duties (activity		obligations and		access, unless			
		selection		report, user feedback)		responsibilities of each		the user enters			
		panel (USP)				party, confidentiality,		into a			
		providing				and Intellectual Property		collaborative			
		scientific				management		agreement with			
		review						MIRRI, where			
		leview						both benefit			
								from			
								collaboration.			
PRACE	High	- PRACE	PRACE	a) Launch of the Call for	- Technical	For technical assess. •	Physical, remote	- Preparatory			
	performance	Access	Application and	access, typically bi-annual calls.	assessment	Need to use PRACE		Access: short-			
	computing	Committee	Peer-Review Tool	Calls to the SHAPE Programme		resources		term access to			
	(HPC) and	(AC)		run every six months.	- Scientific	 Software availability on 		resources, for			
	data	011455		Applications for Preparatory	assessment	the requested		code-enabling			
	managemen	- SHAPE		Access are accepted at any		system(s).		and porting,			
	t systems	review panel		time, with a cut-off date every 3		 Feasibility of the 		required to			
	and services			months.		requested resource.		prepare for			
						For scientific assess:		Project Access			
				b) Application Submission:		Scientific excellence.		and			
				forms can be completed online							



RI Short Name	Facilities	Access governance	Tools	Access process	Selection modes	Review Criteria	Access types	Access modalities	Access monitoring tools	User duties	SPECIAL ACCESS
				or downloaded and sent via email c) Administrative assessment, to check/allow review of minor oversights. d) Evaluation: d.1 Technical assessment by relevant PRACE techn. experts. Applications for Preparatory Access undergo technical review only. d.2 Scientific assessment by a review panel of int. experts selected by the PRACE AC, which recommends applications to be accepted to the PRACE Board of Directors. d.3) Scientific ranking by the PRACE AC for the PRACE Resources Allocation Session (RAS) f) Post Award obligations: final report and acknowledgement of PRACE support.		Novelty and transformative qualities. Relevance to the call. Methodology Dissemination. Management. For SHAPE access Fit with the goals of SHAPE Strength of the business case Technical Achievability Other aspects are the SME's commitment to co-invest with PRACE, innovation, socioeconomic impact.		demonstrate scalability of codes Project Access to PRACE Tier-0 HPC systems for projects that use previously tested codes with demonstrated high scalability and optimization SHAPE Access to help SMEs benefit from expertise and knowledge developed within PRACE DESI Access provides Tier-1 users access to supercomputing architectures from another European country for smaller-scale projects.			