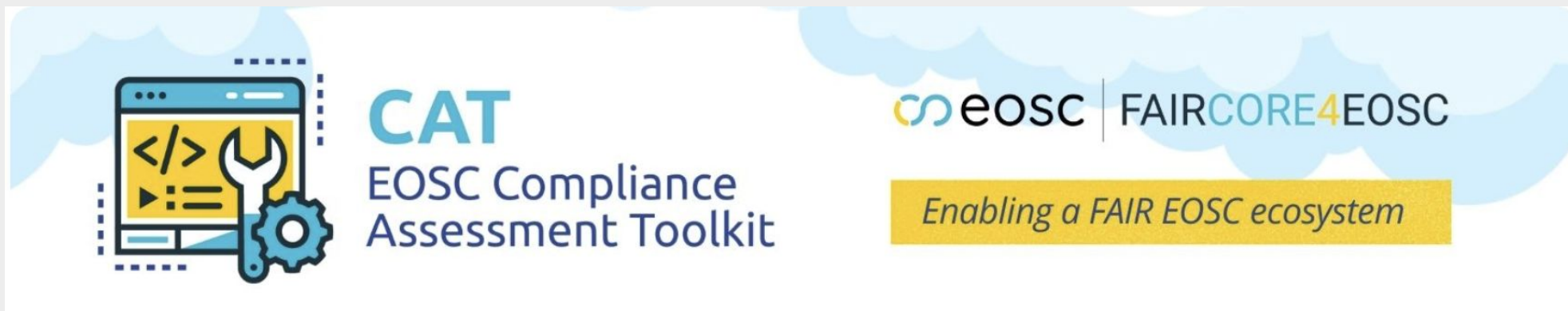


FAIRCORE4EOSC

Developing EOSC-Core components
to enable a FAIR EOSC ecosystem

14 | 05 | 2024 by Wim Hugo, DANS, Themis Zamani, GRNET



**Funded by
the European Union**

Project 101057264 — FAIRCORE4EOSC



Details on PID Policy

Expectations

Current Collaboration Blueprint

Three threads ...



The **PID Policy and Implementation Task Force** (PID TF) is dedicated to identify the gaps in the PID ecosystem that has been mentioned in the current SRIA version, especially to highlight mature and recognised PID infrastructures for emerging resource types, to standardise the PID graph, to integrate PIDs into FAIR data management, and to address PIDs and sensitive data (among others). It will provide different kinds of recommendations on PIDs management and **will set up criteria and certification of PIDs**

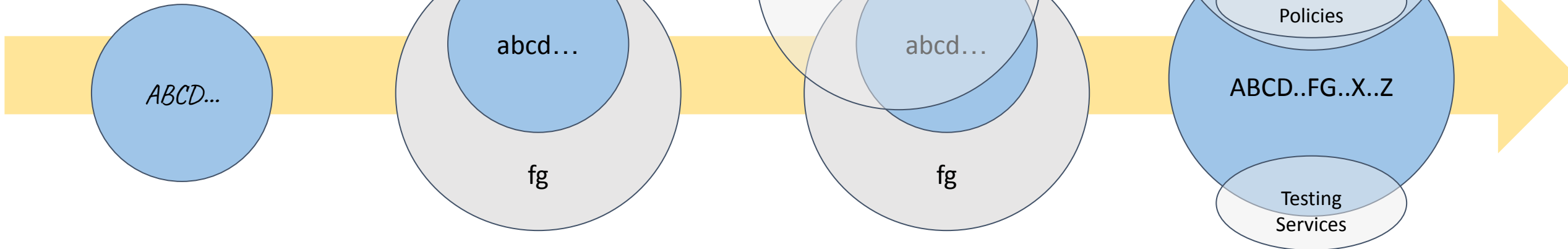


The **Compliance Assessment Toolkit** will support the EOSC PID policy with services to encode, record, and query compliance with the policy. It delivers a **conceptual model** for assessment together with **vocabularies, API services, and user interfaces** whereby actors can assess compliance with PID policy applicable to their context.



- Setting up a **coordination mechanism** for EOSC PID service providers
- **Ensuring end user needs are met** when the EOSC PID landscape and solutions are developed
- Ensuring **alignment with EOSC policies** and architecture of the PID infrastructures
- Delivering **support instruments for facilitating uptake** (best practices, assessment toolkit, user documentation).

Process



European Commission,
Directorate-General for
Research and Innovation,
Hellström, M., Heughebaert, A.,
Kotarski, R., et al., **A Persistent
Identifier (PID) policy for the
European Open Science Cloud
(EOSC)**, Publications Office,
2020,
<https://data.europa.eu/doi/10.2777/926037>

Hugo, W., Steinhoff, W., Turner,
D., Buys, M., & Zamani, T.
(2023). **D2.1 Compliance
Assessment Specification.**
Zenodo.
<https://doi.org/10.5281/zenodo.10067253>

FAIRCORE4EOSC
Core Components Supporting a FAIR EOSC

Work in Progress: FAIR-IMPACT
WP3

Community Expectations
Use Cases
Workflows
PID Policies
Best Practices

FAIR-IMPACT
Expanding FAIR solutions across EOSC

Work in Progress: FAIR-IMPACT
WP3, FC4E WP2

**PID Knowledge Base
integrated with CAT**

FAIR-IMPACT
Expanding FAIR solutions across EOSC
FAIRCORE4EOSC
Core Components Supporting a FAIR EOSC



Compliance Assessment Toolkit

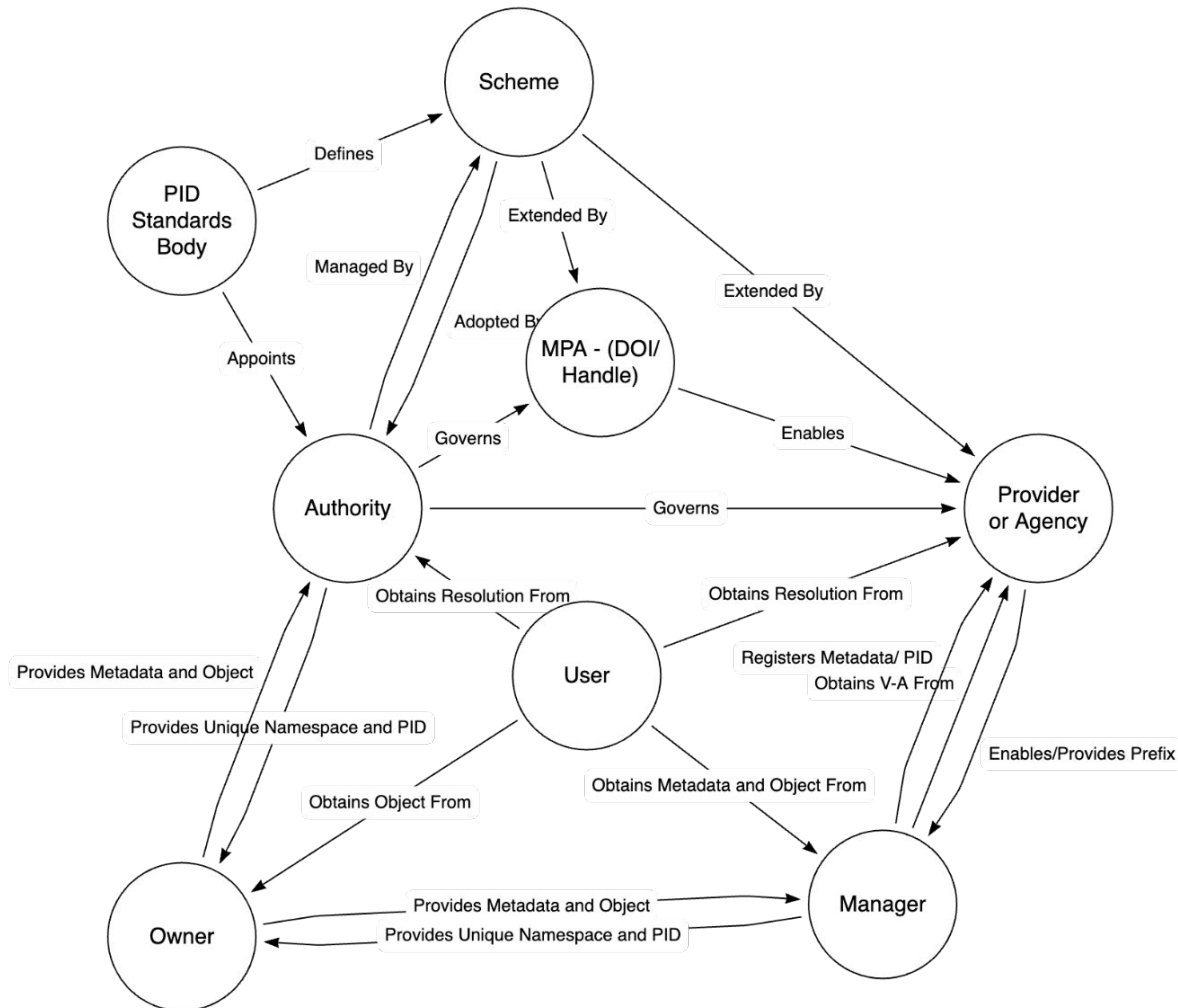
EOSC PID Policy compliance for all actors in the ecosystem.

Conceptual Model

EOSC PID Policy Mapping to the Model

Knowledge Base Development

Entities (Actors and Roles)



The actors in the PID ecosystem are related in specific ways, and this is already partly captured by the EOSC PID Policy. FC4E has made some specific recommendations for amendments and extension of the actor definitions, and this is being refined in F-I WP3.

Introduce the concept of a ‘PID Stack’:

Scheme	Standards Body	Authority	MPA	Provider	Manager
Handle	IETF	DONA	DOI Foundation	DataCite	Zenodo
Handle	IETF	DONA	DOI Foundation	DataCite	DANS
Handle	IETF	DONA	DOI Foundation	IGSN	e.g GeoScience Aus
Handle	IETF	CNRI	DOI Foundation	CrossRef	...
URN	IETF	URN:NBN	N/A	URN:NBN-NL	KB

Principles, Criteria, Metrics, and Benchmarks

Criteria

#	Principle or Objective	Suggested Criterion	Description	Metric	Benchmark
C1	Preferred Unambiguous Interoperability	Minimum Operations	Service providers SHOULD provide a common Application Programming Interface to interact with PIDs, supporting a minimum set of operations (create, resolve and modify PID and PID Kernel Information)	$\sum T_{1,n}$	=0 → 0 >1 → 1
C2	Secure Viable, Trusted	Sensitive Metadata	Sensitive kernel metadata MAY require access control and/or encryption of the Kernel Information.	$\sum T_{2,n}$	<5 → 0 =5 → 1

Criteria and Actors

Applicability of Criteria to Actors

#	Criterion	Imperative	Scheme	Authority	Service	Manager	Owner
C1	Minimum Operations	SHOULD			✓		
C2	Sensitive Metadata	MAY		✓	✓		
C3	Ownership	MUST		✓	✓		
C4	Maintenance	SHOULD					✓
C5	Update Functionality	MUST			✓	✓	
		SHOULD				✓	

Tests

Tests

#	Test	Description	Type	Method	Guidance
T _{1,1}	CREATE	Create a PID and provide kernel information: API exists and evidence (URL) is available	Binary	Yes = 1 No = 0	G1
T _{1,2}	UPDATE	Update kernel information for existing PID: API exists and evidence (URL) is available	Binary	Yes = 1 No = 0	G1
T _{1,3}	Resolution Service	Resolution API (URL) or URI Pattern exists, evidence is provided	Binary	Yes = 1 No = 0	G1
T _{2,1}	Secure - Encrypted	API services are encrypted (HTTPS)	Binary	Yes = 1 No = 0	G2

Guidance

Guidance

#	Guidance
G1	One may extend the tests to recognise typical and popular standards for API implementation, such as REST, SmartAPI, and the like.
G2	A series of 5 tests are proposed, all of which need to be satisfied to enable encryption and access control for sensitive metadata. Some of these tests may not apply to all use cases - a topic for future refinement.
G3	In practice, this may require multiple tests, since in some cases, the ownership is encoded in metadata at the Manager (entity metadata), and in some cases with the Provider or the Authority. In addition, it will require definition of the path or retrieval mechanism for the information, which may be different for each scheme, authority, service, or manager. It could also be different depending on the Kernel Information Profile. Suggestion: store the retrieval instruction
G4	In practice, evaluation is very difficult, due to two factors:

Detailed guidance for Managers being developed by FAIR-IMPACT Task 3.3, available end May 2024



Compliance Assessment Toolkit

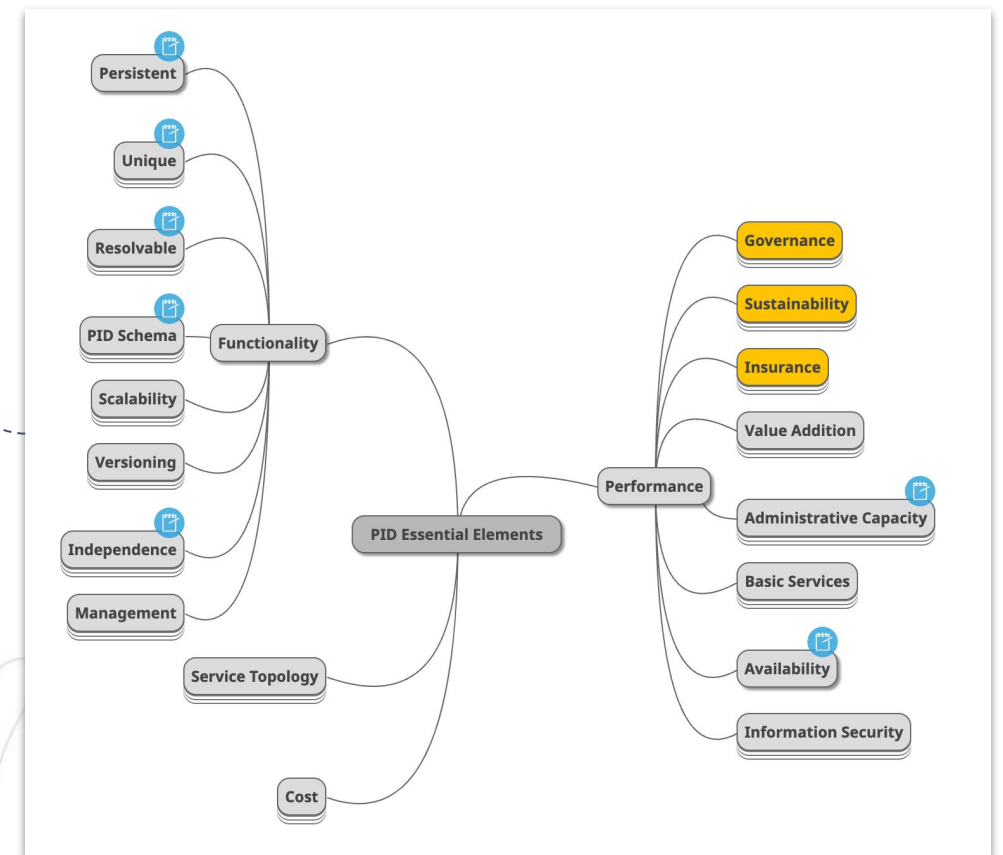
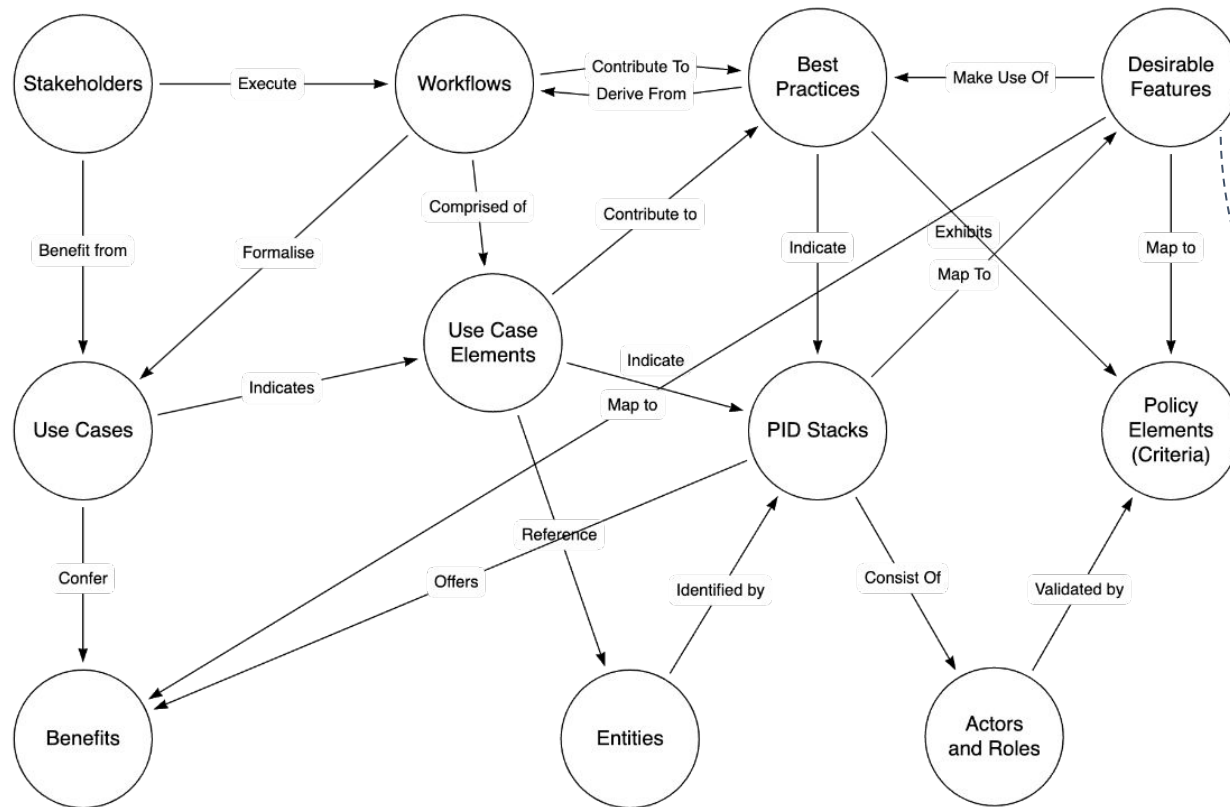
EOSC PID Policy compliance for all actors in the ecosystem.

Workflows, Use Cases, Best Practices, Entities, ...

(René van Horik, Wim Hugo, DANS)

Use Cases, PID Stacks, and Desirable Features

Analysis of the landscape to generate a structured body of knowledge



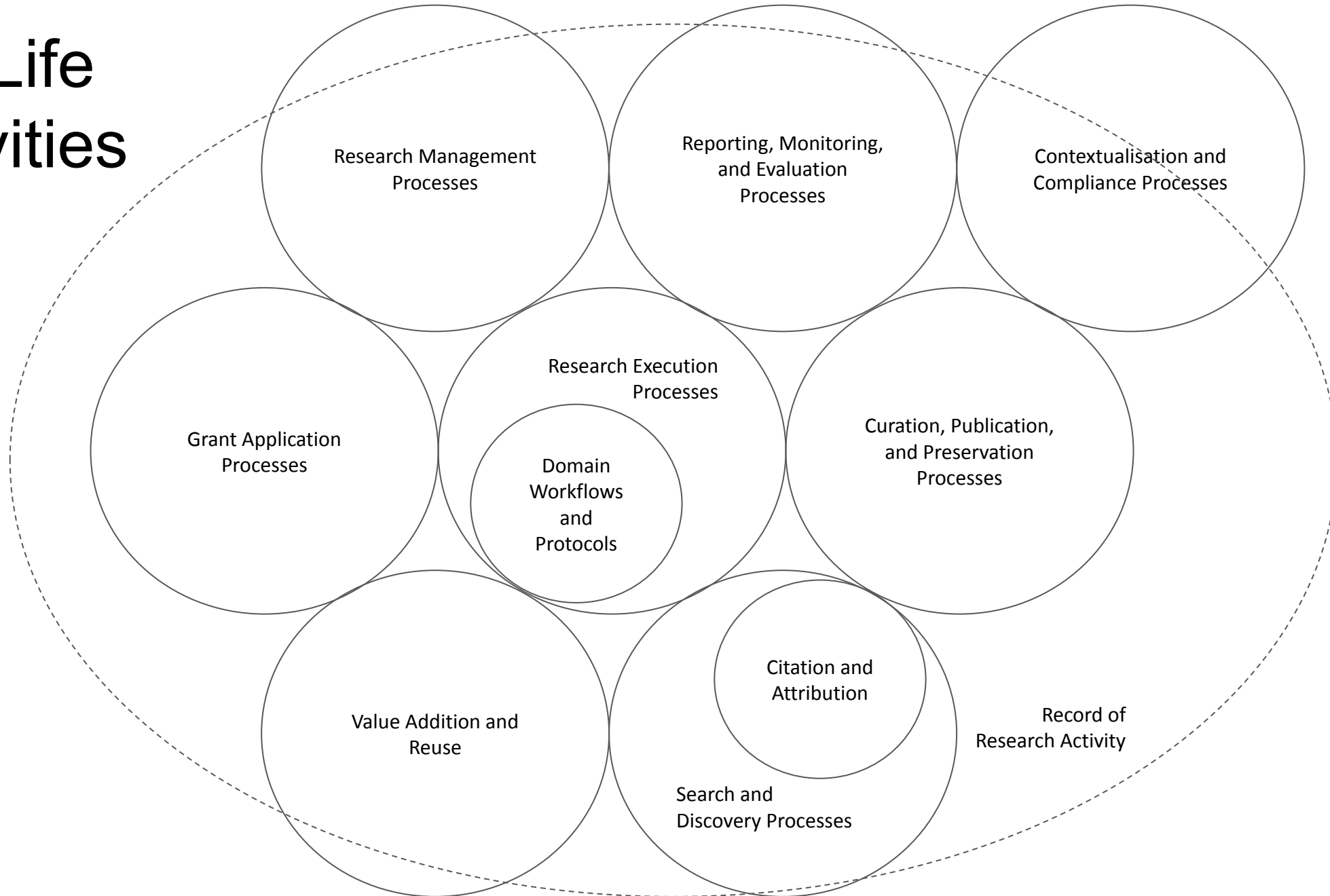
Use Cases, Elements, and Workflows

Case study	Function/ Entities	PID	Use Case Elements	Comments	Resolvable	Reference
Finland	Researchers, persons	ORCID	0	ORCID cannot be created posthumously		[48]
Finland	Researchers, persons	ISNI	0			[48]
Finland	Organisations	VAT Number	6		Not Yet	[48]
Finland	Organisations	RoR	6			[48]
Finland	Organisations	ISNI	6			[48]
Finland	Organisations	PIC	6		Not Yet	[48]

#	Country	Use Case Element	PID Stack	Status	Annotation Link	Reference
1	Netherlands	Identification of researcher(s) for funding and reporting	ORCID	Recommended	https://hyp.is/dr5	[44]
2	Netherlands	Identification of research output for reporting	DOI	Recommended	https://hyp.is/dr5	[44]
3	Netherlands	Identification of research output for reporting	URN	Recommended	https://hyp.is/dr5	[44]
4	Netherlands	Identification of research output for reporting	ISSN	Recommended	https://hyp.is/dr5	[44]
5	Netherlands	Identification of research output for reporting	Handle	Recommended	https://hyp.is/dr5	[44]

#	Use Case or Workflow	Description	DOI	Benefits	Reference	Annotation Link
1	Grant application processes				[47]	https://hyp.is/jsNzLlIV
1	Grant application processes	Researchers and institutions pass PIDs for previous grants, outputs, organisations, people, and projects to grant application systems	DOI ORCID ROR RAiD	1) Less manual data entry 2) More accurate data 3) More time for including contextual information	[52]	https://hyp.is/1enHZF
1	Grant application processes				[44]	https://hyp.is/TtWjdF
2	Content submission processes				[47]	https://hyp.is/jsNzLlIV
2	Content submission processes	Researchers share their ORCID iD when submitting new outputs and connect to ROR IDs for institutional affiliations and grant DOIs for funding	DOI ORCID ROR	1) More accurate data about co-authors, affiliations, and funding 2) Time/effort savings in review and metadata creation 3) Easier sign-in 4) Easier APC management 5) Easier reviewer selection and recognition	[52]	https://hyp.is/1enHZF

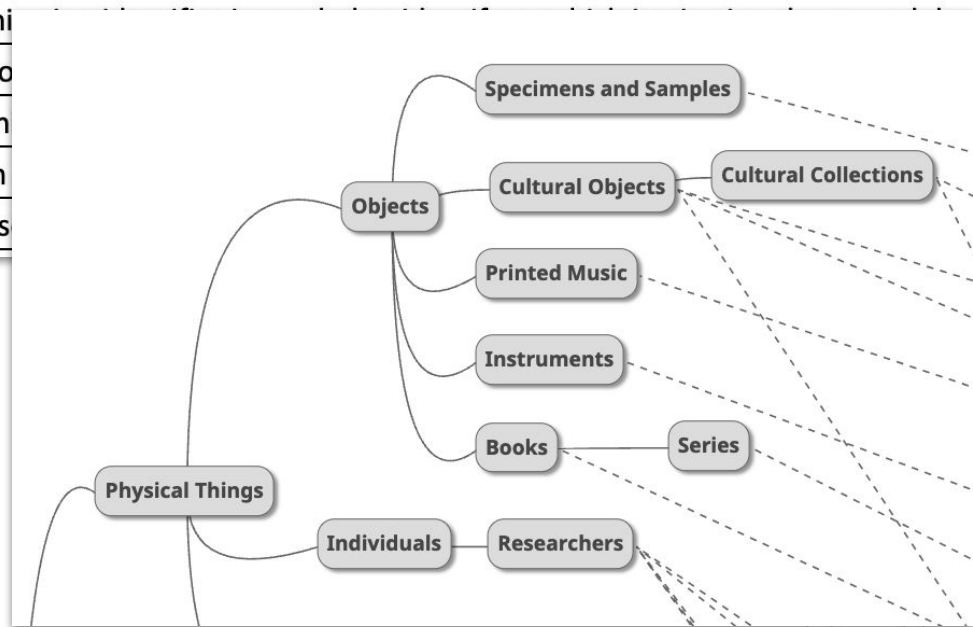
Research Life Cycle Activities



Entities

Currently being integrated with [FABIO](#)

#	Entity	Motivation	Reference
1	Datasets	Data set Identifier for data set is needed to locate and identify the source of the (reused) data.	[56]
1	Datasets	PIDs for research data	[59]
2	Person	A person identifier is needed to identify to whom the (reused) data belongs to, and possibly how to a	[56]
2	Person	PIDs for researchers and contributors	[59]
2	Person	A core principle of Linked data is to use URIs to identify important entities such as people. The followi	[63]
2	Person	A RO-Crate SHOULD have contact information, using a contextual entity of type ContactPoint.	[63]
3	Organisation	An organi	[56]
3	Organisation	PIDs for o	[59]
3	Organisation	An Organ	[63]
4	Software	Research	[56]
4	Software	PIDs for s	[59]



Stakeholders

#	Category	Entity	Reference	Annotation Link
	Institutions	Public research performing organisations (RPO)	[47]	https://hyp.is/WwdROFITe6
	Institutions	Higher Education Institutions	[47]	https://hyp.is/WwdROFITe6
	Institutions	Research organisations	[47]	https://hyp.is/WwdROFITe6
	Institutions	Research funding organizations (RFOs)	[47]	https://hyp.is/WwdROFITe6
	Institutions	Policymakers	[47]	https://hyp.is/WwdROFITe6
	Institutions	Libraries	[47]	https://hyp.is/WwdROFITe6
	Institutions	(Science) Publishers	[47]	https://hyp.is/WwdROFITe6
	Institutions	Service providers	[47]	https://hyp.is/WwdROFITe6
	Institutions	Research Infrastructures	[47]	https://hyp.is/WwdROFITe6
	Groups	Researchers	[47]	https://hyp.is/WwdROFITe6
	Groups	Librarians	[47]	https://hyp.is/WwdROFITe6
	Groups	Open Science/Open Access managers/coordinators	[47]	https://hyp.is/WwdROFITe6
	Groups	CRIS system managers	[47]	https://hyp.is/WwdROFITe6
	Groups	Repository managers	[47]	https://hyp.is/WwdROFITe6
	Groups	Data stewards	[47]	https://hyp.is/WwdROFITe6
	Groups	Data curators	[47]	https://hyp.is/WwdROFITe6
	Groups	Researchers	[61]	https://hyp.is/kKYQnF4UEe6
	Institutions	Research organisations	[61]	https://hyp.is/7qA6VI4UEe6y
	Institutions	Research funding organizations (RFOs)	[61]	https://hyp.is/7qA6VI4UEe6y



Compliance Assessment Toolkit

Best Practices for Managers

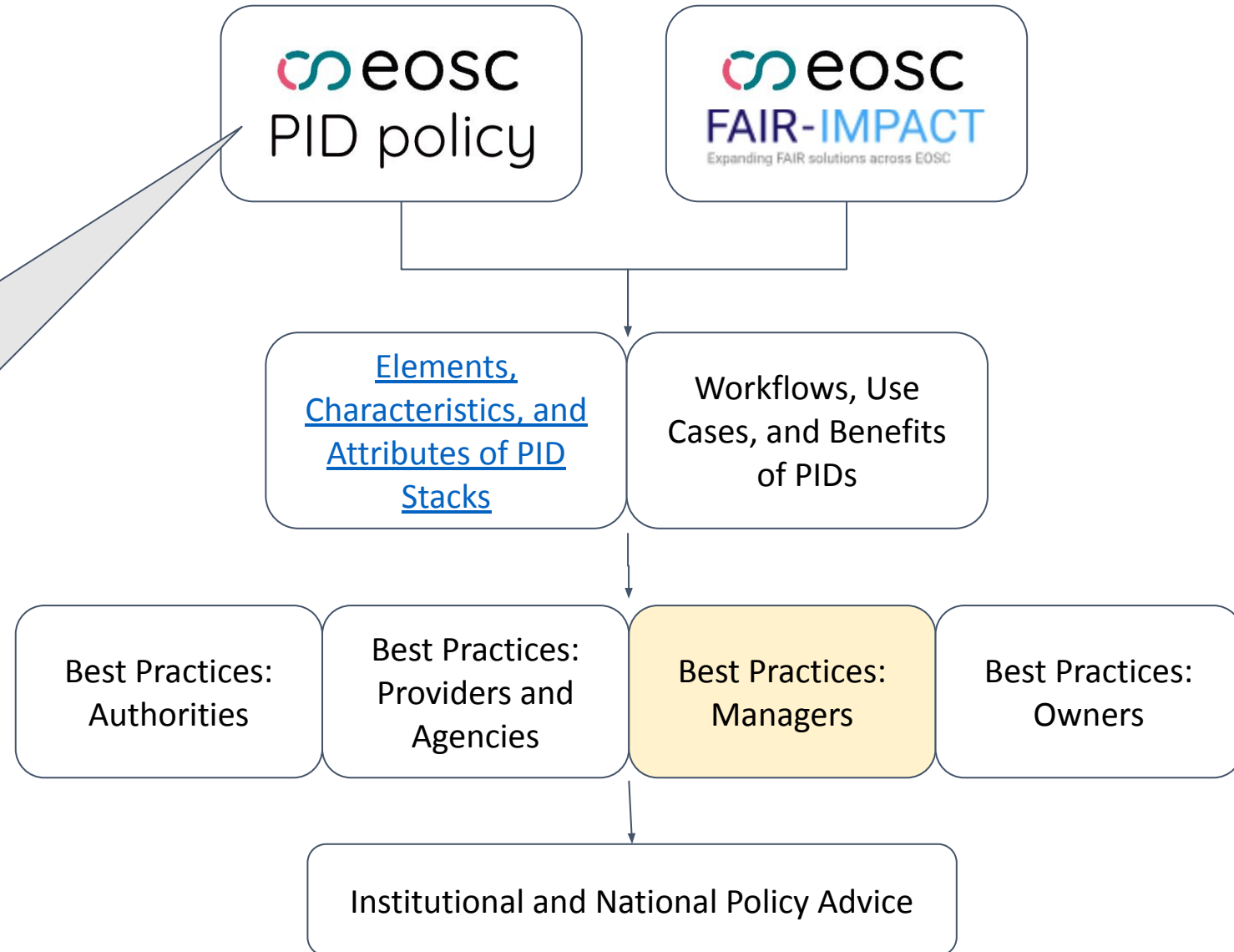
Sources of Best Practice

- EOSC PID Policy
- FAIR-IMPACT
 - Review of Data and PID Policies (National, Institutional)
 - RDA Outputs and recommendations
 - Review of PID Stack documentation (recommended practices from providers, ...)
 - Published use of PIDs in workflows and specific use cases

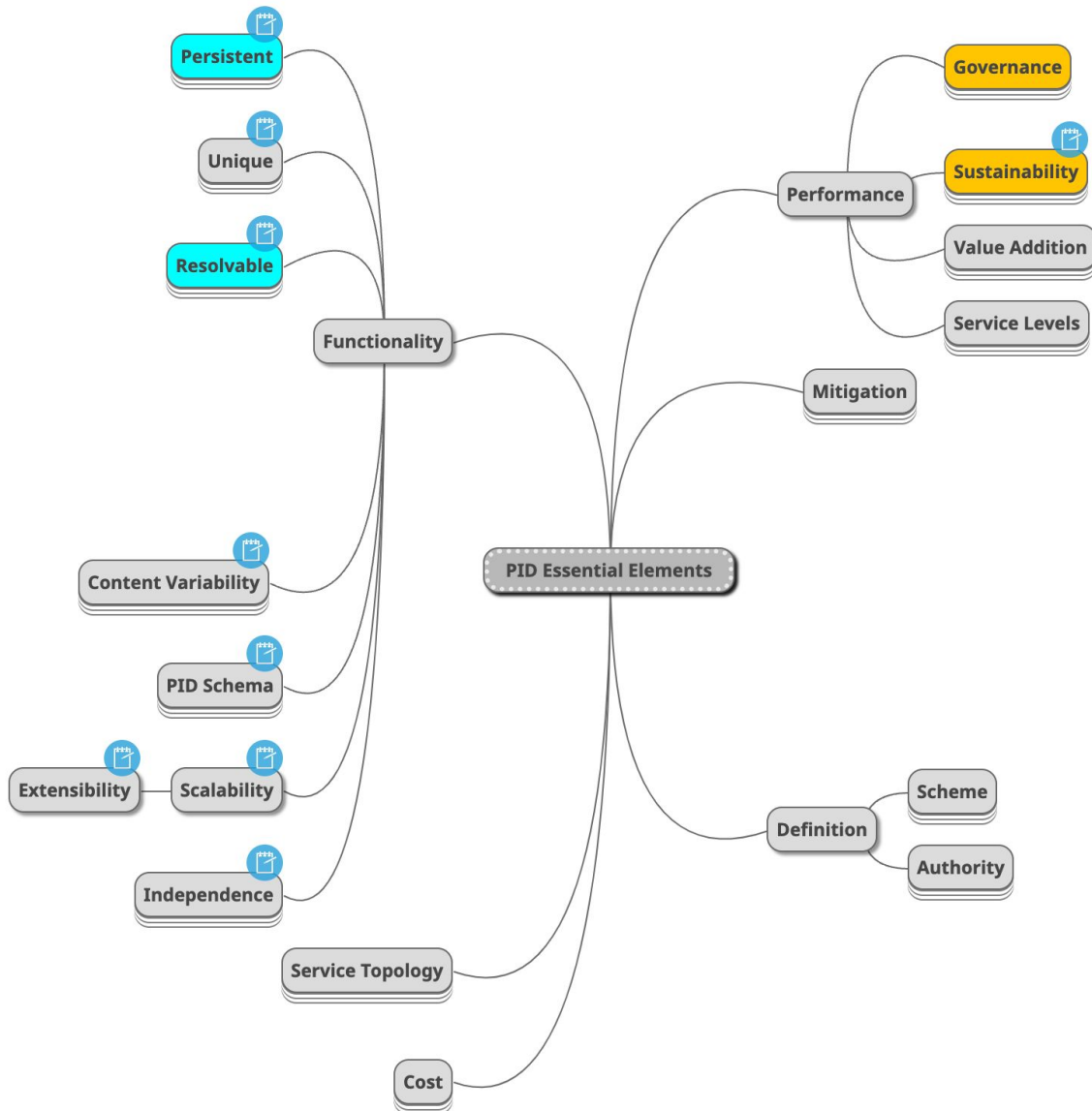


Sources of Best Practice

- EOSC PID Policy
 - FAIR-IMPACT
 - Review of Data and PID Policies (N)
 - RD re
 - Re do pr
 - Pu workflows and specific use cases
- Focus on mainstream, object-referencing identifiers. Many use cases require PIDs that have different characteristics and features



Elements, Characteristics and Attributes of PID Stacks



This inventory and classification is in development by the FAIR-IMPACT project. It consolidates the expectations of the community, assertions and features advertised by PID Stacks, and the content of the EOSC PID Policy into a multi-level hierarchy.

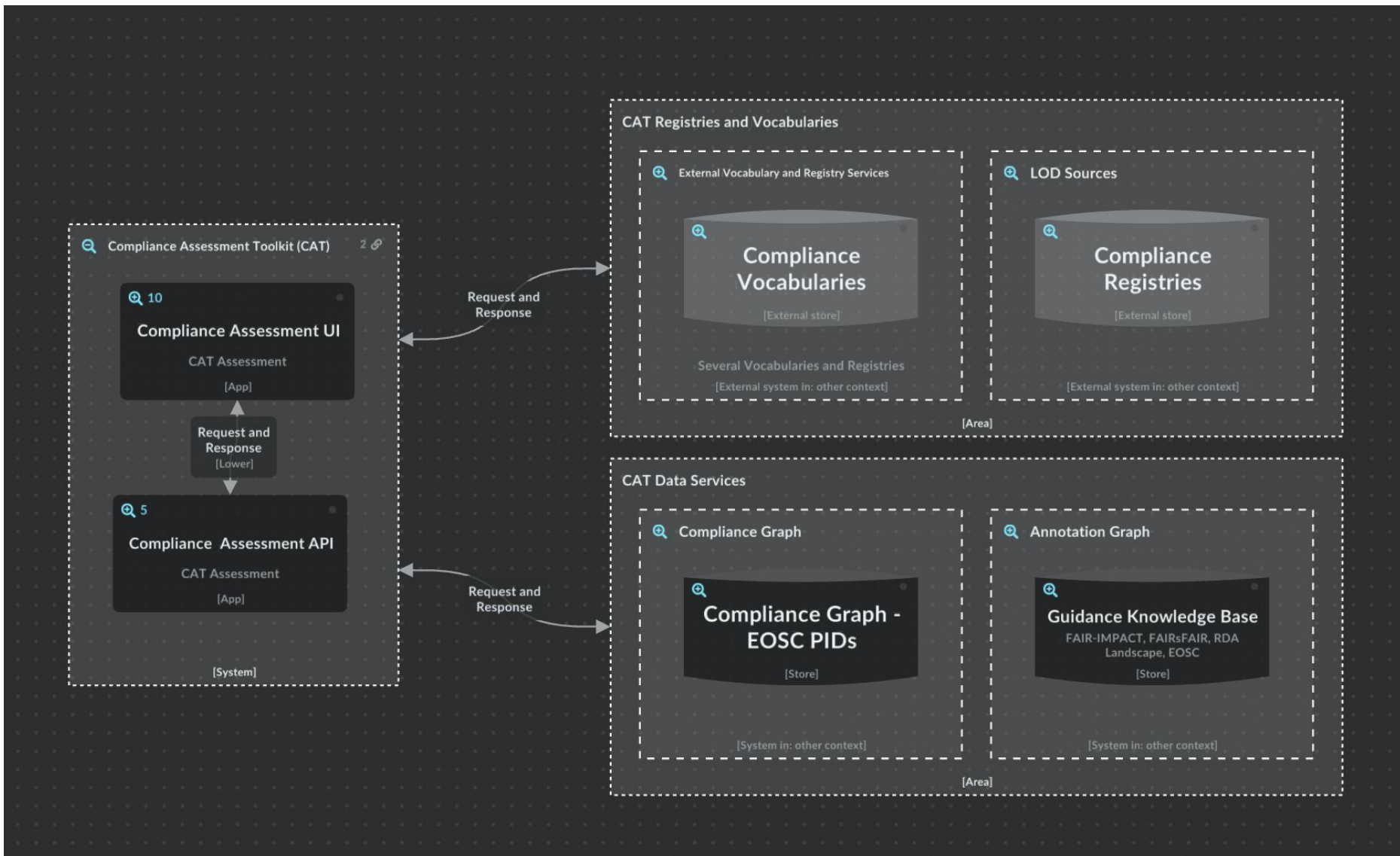
[Live version](#)



Compliance Assessment Toolkit

Design

Main Components and Services





Compliance Assessment Toolkit

Demonstration

FAIRCORE4EOSC Compliance Assessment Toolkit

An easy to use Toolkit to measure compliance (ex. with PID Policy - 1st version) based on the results of Conceptual Model (definitions, relationships)



landscape of compliance assessment

set of definitions for the concepts involved and the relationships between them



CAT at a glance



CAT
EOSC Compliance Assessment Toolkit

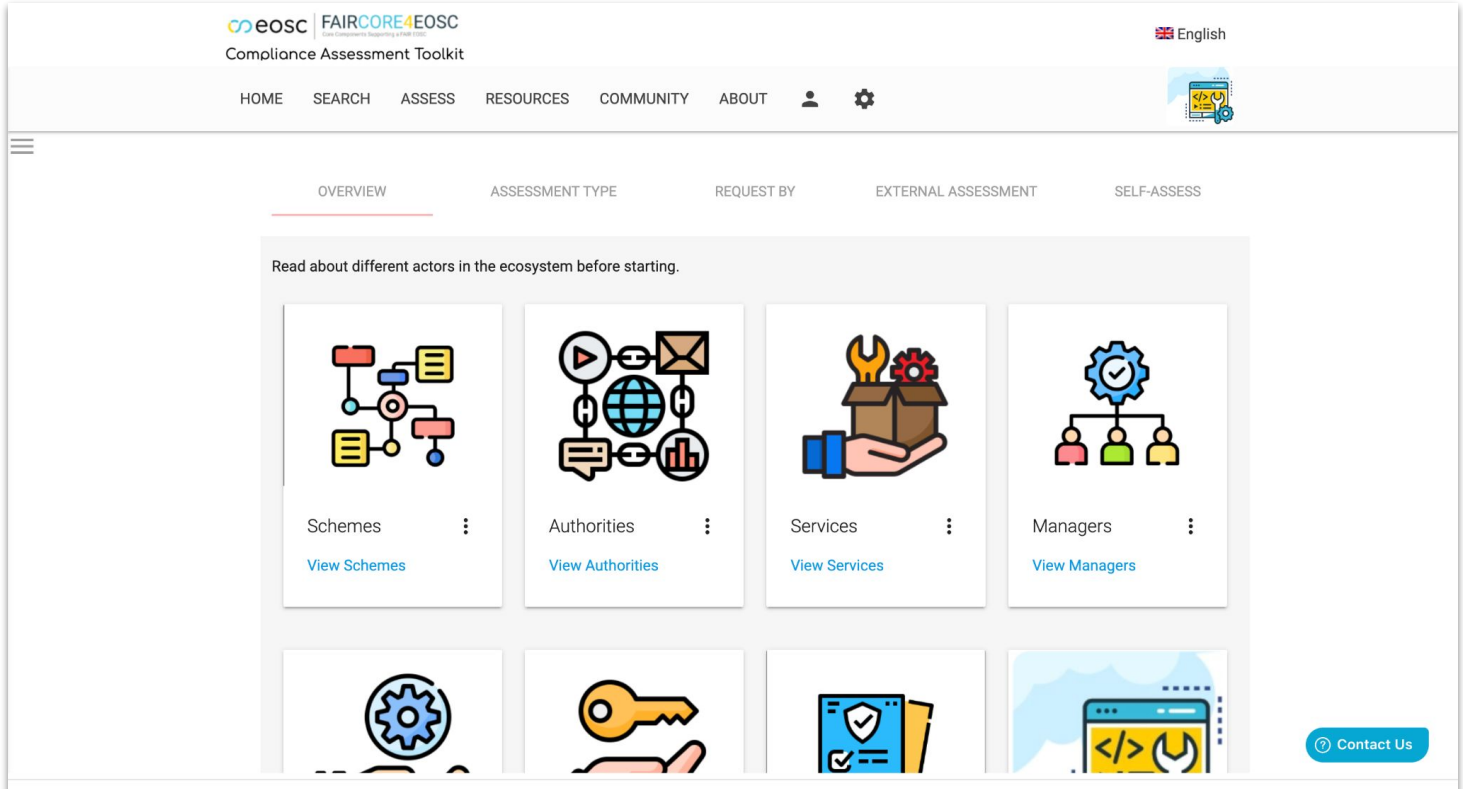
eosc | FAIRCORE4EOSC
Enabling a FAIR EOSC ecosystem

The **Compliance Assessment Toolkit** will support the EOSC PID policy by providing:

- Vocabulary Services
- API Services
- User Interfaces

Compliance Assessment Toolkit for EOSC: a set of concepts, accessible via APIs, and supported by user interfaces via the APIs.








The Compliance Assessment Toolkit will support the EOSC PID policy with services to encode, record, and query compliance with the policy. To do so, a wide range of compliance requirements (TRUST, FAIR, PID Policy, Reproducibility, GDPR, Licences) have been evaluated as use cases for definition of a conceptual model.



The screenshot shows the web application interface for the Compliance Assessment Toolkit. At the top, it features the eosc and FAIRCORE4EOSC logos, the text 'Compliance Assessment Toolkit', and a language selector set to 'English'. A navigation menu includes 'HOME', 'SEARCH', 'ASSESS', 'RESOURCES', 'COMMUNITY', and 'ABOUT', along with user and settings icons. Below the menu, there are tabs for 'OVERVIEW', 'ASSESSMENT TYPE', 'REQUEST BY', 'EXTERNAL ASSESSMENT', and 'SELF-ASSESS', with 'OVERVIEW' currently selected. The main content area displays a heading: 'Read about different actors in the ecosystem before starting.' Below this, there are four cards representing different actors: 'Schemes' (with a flowchart icon and a 'View Schemes' link), 'Authorities' (with a globe and communication icons and a 'View Authorities' link), 'Services' (with a hand holding a box and tools icon and a 'View Services' link), and 'Managers' (with a gear and people icon and a 'View Managers' link). At the bottom right, there is a 'Contact Us' button.




The Fundamentals


-  **Users:** The user that is using the Service
-  **Roles:** The different types of Roles the user can have in the Service (Identified, Validated)
-  **Actors:** Different actors that perform specific actions on behalf of the Organization they belong to.
-  **Validations:** Request to be a specific type of actor on behalf of your Organization
-  **Template of assessment:** A way to create different types of assessments based on specific policies (using principles, criteria, tests) , on specific actors and on combination.
-  **Assessment :** Assess and document the current state of compliance of your object based on rules extracted from the policy you want (ex. the PID Policy)
-  **Subject :** The subject that the User wants to access (service, infrastructure , url etc)








The Connections


 **Users:** The user that is using the Service


 **Roles:** The different types of Roles the user can have in the Service (Identified, Validated)

 **Actors:** Different actors that perform specific actions on behalf of the Organization they belong to.

 **Validations:** Request to be a specific type of actor on behalf of your Organization

 **Template of assessment:** A way to create different types of assessments based on specific policies (using principles, criteria, tests) , on specific actors and on compination.

 **Assessment :** Assess and document the current state of compliance of your object based on rules extracted from the policy you want (ex. the PID Policy)

 **Subject :** The subject that the User wants to access (service, infrastructure , url etc)



Actors

- Different types of actors based on PID Policy
- A user can request different types actors

Requirement for a validation



Validations

- Everyone can log in (identified)
- Multiple validation requests
 - different actors
 - different organizations

Requirement for an assessment



Assessments

- Follows the assessment methodology (principles, criteria, tests)
- Json schema to support the relationships of the principles, criteria, tests
- Library of different types of tests
 - binary, value
 - working on automated tests (fetching results from external sources)
- Benchmarks, metrics supporting the calculation of required results.



The User Experience

A user
logins
via AAI





The User Experience

A user
logins
via AAI





The User Experience

A user
logins
via AAI



Profile

id:c0f15711b0f26749734
003ca3c...194f5819@einf
ra.gnet.gr
Type: Identified
Registered on:
2023-07-02T14:48:28.000
+03:00





The User Experience

A user
logs in
via AAI



Profile

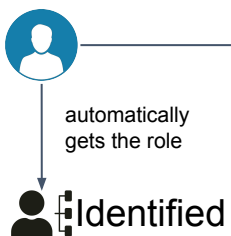
id:c0f15711b0f26749734
003ca3c...194f5819@einf
ra.gnet.gr
Type: Identified
Registered on:
2023-07-02T14:48:28.000
+03:00





The User Experience

A user
logs in
via AAI



Profile

id:c0f15711b0f26749734
003ca3c...194f5819@einf
ra.gnet.gr
Type: Identified
Registered on:
2023-07-02T14:48:28.000
+03:00

requests a validation

on behalf of an Organization

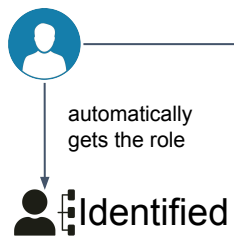
as a specific type of Actor





The User Experience

A user
logs in
via AAI



Profile

id:c0f15711b0f26749734
003ca3c...194f5819@einf
ra.gnet.gr
Type: Identified
Registered on:
2023-07-02T14:48:28.000
+03:00

requests a validation



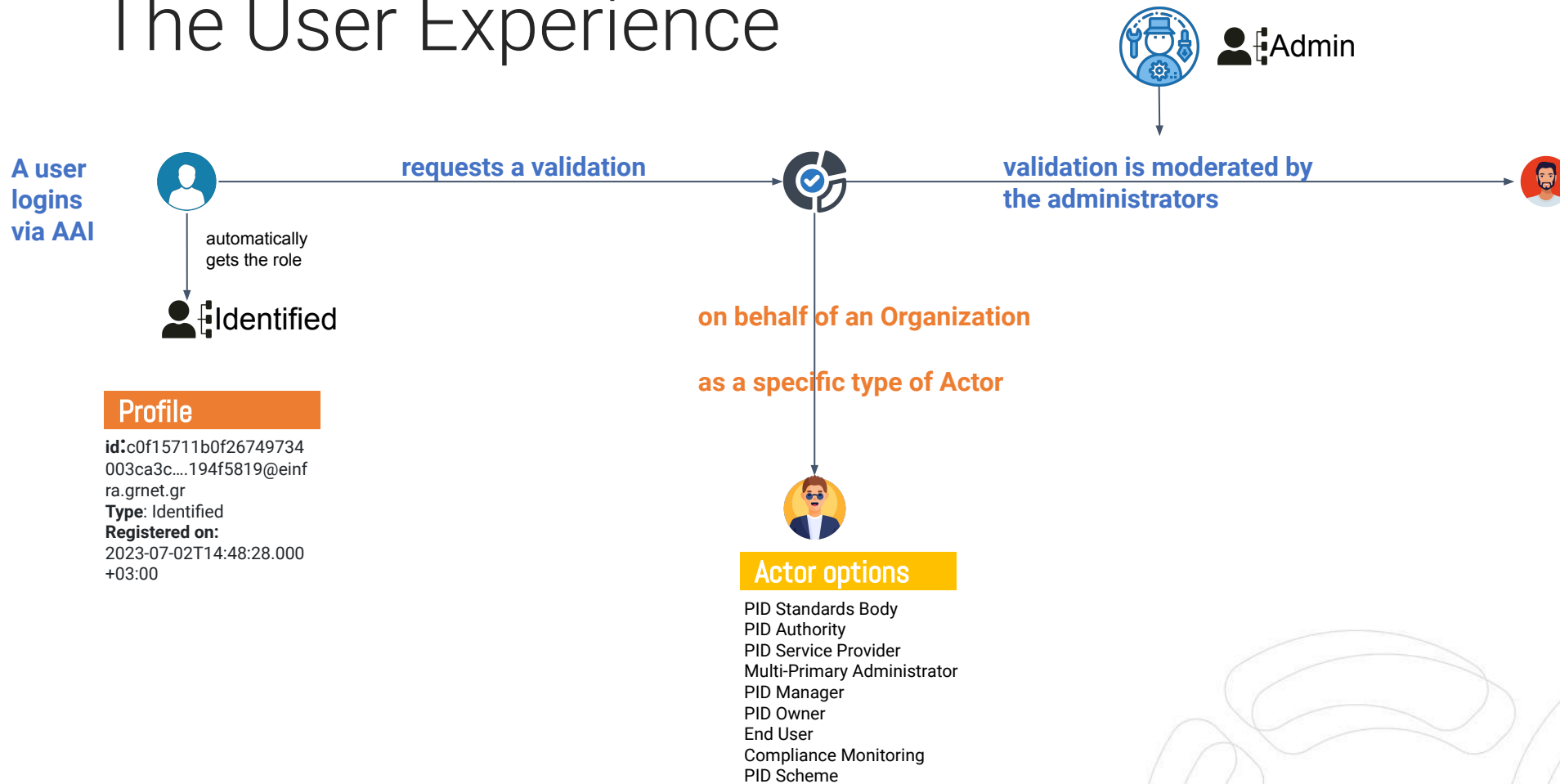
Actor options

- PID Standards Body
- PID Authority
- PID Service Provider
- Multi-Primary Administrator
- PID Manager
- PID Owner
- End User
- Compliance Monitoring
- PID Scheme





The User Experience



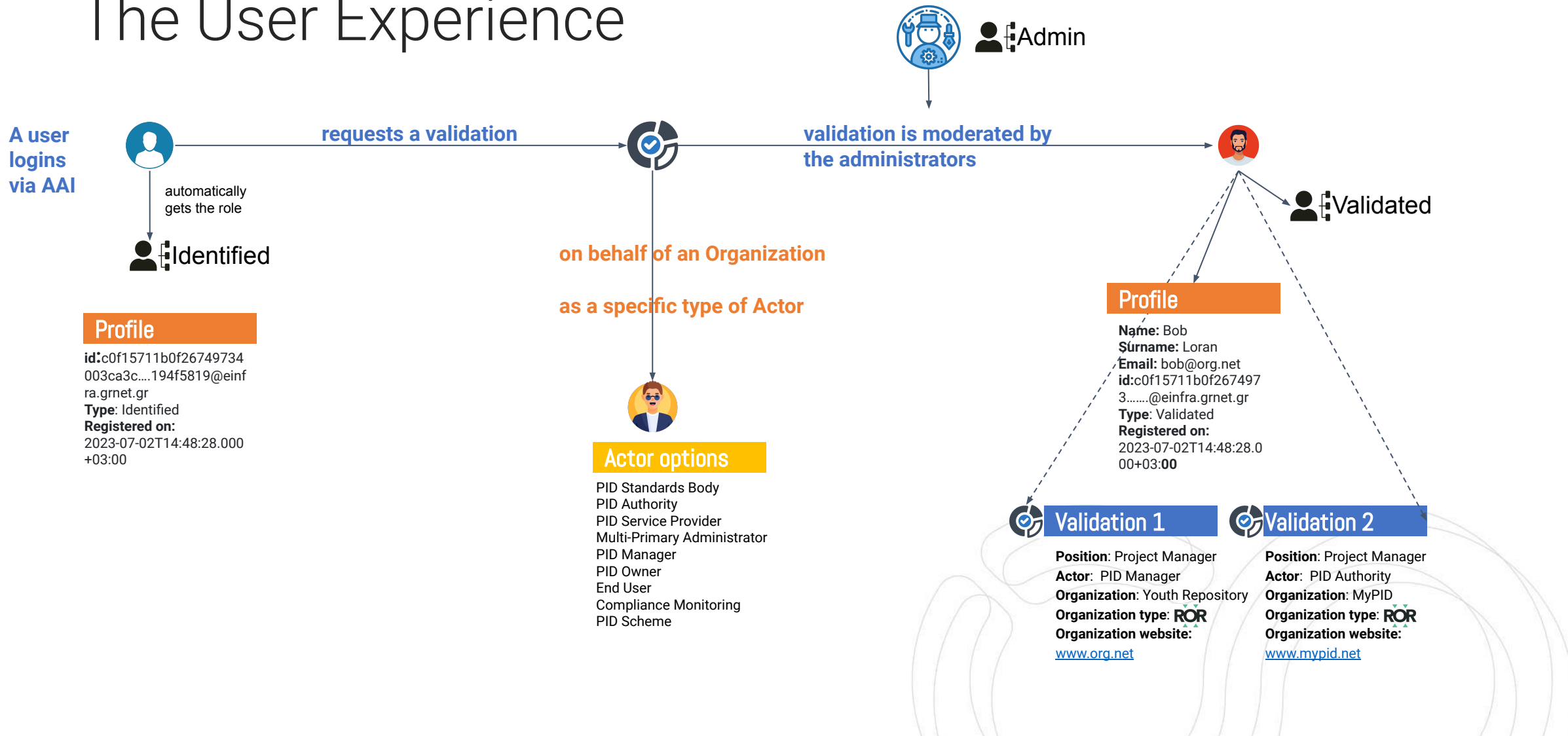
validation is moderated by the administrators

on behalf of an Organization
as a specific type of Actor





The User Experience





The User Experience / In Action

A user
logins
via AAI

automatically
gets the role



requests a validation



Identified



Admin

profile

Account
id: c0f15711b0f26749734003ca3cbc30fbd1f6baffb8f3c315a771ee57194f5819@einfra.gnet.gr
type: Identified
registered on: 2024-01-23T13:44:08.000+02:00

Personal Details
Name:
Surname:
Email:
Update Details

Validation Requests
 You should update your personal details in order to be able to create validation requests

Assesments

Subjects

create new validation request

Organization Name (*)
Select...

Organization Source (*)
ROR

Organization Website (*)

Organization Role (*)

Actor (*)
Select Actor

User Details (*)
Name: Themis Surname: Zamani Email: themis@admin.gnet.gr

Submit Cancel

validation is moderated by
the administrators

Personal Details

Name: Themis
Surname: Zamani
Email: themis@admin.gnet.gr

Update Details





The Assessment Experience

A user
logins
via AAI



Validated

Profile

Name: Bob
Surname: Loran
Email: bob@org.net
id: c0f15711b0f267497
 3.....@einfra.grnet.gr
Type: Validated
Registered on:
 2023-07-02T14:48:28.0
 00+03:00

Validation 1

Position: Project Manager
Actor: PID Manager
Organization: Youth Repository
Organization type: ROR
Organization website:
www.org.net

Validation 2

Position: Project Manager
Actor: PID Authority
Organization: MyPID
Organization type: ROR
Organization website:
www.mypid.net





The Assessment Experience

A user
logins
via AAI



manages his subjects



Validated

Profile

Name: Bob
Surname: Loran
Email: bob@org.net
id: c0f15711b0f267497
 3.....@einfra.grnet.gr
Type: Validated
Registered on:
 2023-07-02T14:48:28.0
 00+03:00

Validation 1

Position: Project Manager
Actor: PID Manager
Organization: Youth Repository
Organization type: ROR
Organization website:
www.org.net

Validation 2

Position: Project Manager
Actor: PID Authority
Organization: MyPID
Organization type: ROR
Organization website:
www.mypid.net





The Assessment Experience

A user logs in via AAI



manages his subjects



creates an assessment



private
public

Validated

Profile

Name: Bob
Surname: Loran
Email: bob@org.net
id: c0f15711b0f2674973.....@einfra.grnet.gr
Type: Validated
Registered on: 2023-07-02T14:48:28.000+03:00

Validation 1

Position: Project Manager
Actor: PID Manager
Organization: Youth Repository
Organization type: ROR
Organization website: www.org.net

Validation 2

Position: Project Manager
Actor: PID Authority
Organization: MyPID
Organization type: ROR
Organization website: www.mypid.net





The Assessment Experience

A user logs in via AAI



manages his subjects



creates an assessment



private
public

As a specific actor
(validations)



for a specific subject



Validated

Profile

Name: Bob
Surname: Loran
Email: bob@org.net
id: c0f15711b0f2674973.....@einfra.grnet.gr
Type: Validated
Registered on: 2023-07-02T14:48:28.000+03:00

Validation 1

Validation 2

Position: Project Manager
Actor: PID Manager
Organization: Youth Repository
Organization type: ROR
Organization website: www.org.net

Position: Project Manager
Actor: PID Authority
Organization: MyPID
Organization type: ROR
Organization website: www.mypid.net



The Assessment Experience

A user logs in via AAI



manages his subjects



creates an assessment

private
public



get the results



Validated

Profile

Name: Bob
Surname: Loran
Email: bob@org.net
id: c0f15711b0f2674973.....@einfra.grnet.gr
Type: Validated
Registered on: 2023-07-02T14:48:28.000+03:00

Validation 1

Validation 2

Position: Project Manager
Actor: PID Manager
Organization: Youth Repository
Organization type: ROR
Organization website: www.org.net

Position: Project Manager
Actor: PID Authority
Organization: MyPID
Organization type: ROR
Organization website: www.mypid.net

As a specific actor (validations)



for a specific subject





The Assessment Experience / In Action

A user logs in via AAI

automatically gets the role



manages his subjects



creates an assessment



private
public

Validation Request id: 1 [+ Create New](#)

Requestor
 User id: c01f5711b0f26749734003ca3cbc30fd1f6bafbf8f3c315a771ee57194f5819@infra.grnet.gr
 User name: Themis
 User surname: Zamani
 User email: themis@admin.grnet.gr

Organisation
 Id: ror.org/[V20caam1](#)
 Name: National Infrastructures for Research and Technology - GRNET S.A
 Website: [https://www.grnet.gr](#)

Roles
 User role in organisation: Project Manager
 User requests as Actor with: PID Service Provider

Status
 Created on: 2024-01-25T13:34:25.000+02:00

✓ APPROVED

 Approved on: 2024-01-25T13:37:17.000+02:00
 Approved by: 59b1a319b554e8be71998089cc8663db635c81a09d4d7645a4ece502e9012f3@infra.grnet.gr

+ Create new subject ✕

Subject ID (*) A unique identifier for the current subject

Subject Name (*) The name of the subject of the assessment as identified above

Subject Type (*) The type of object for which the assessment will be completed

As a specific actor (validations)

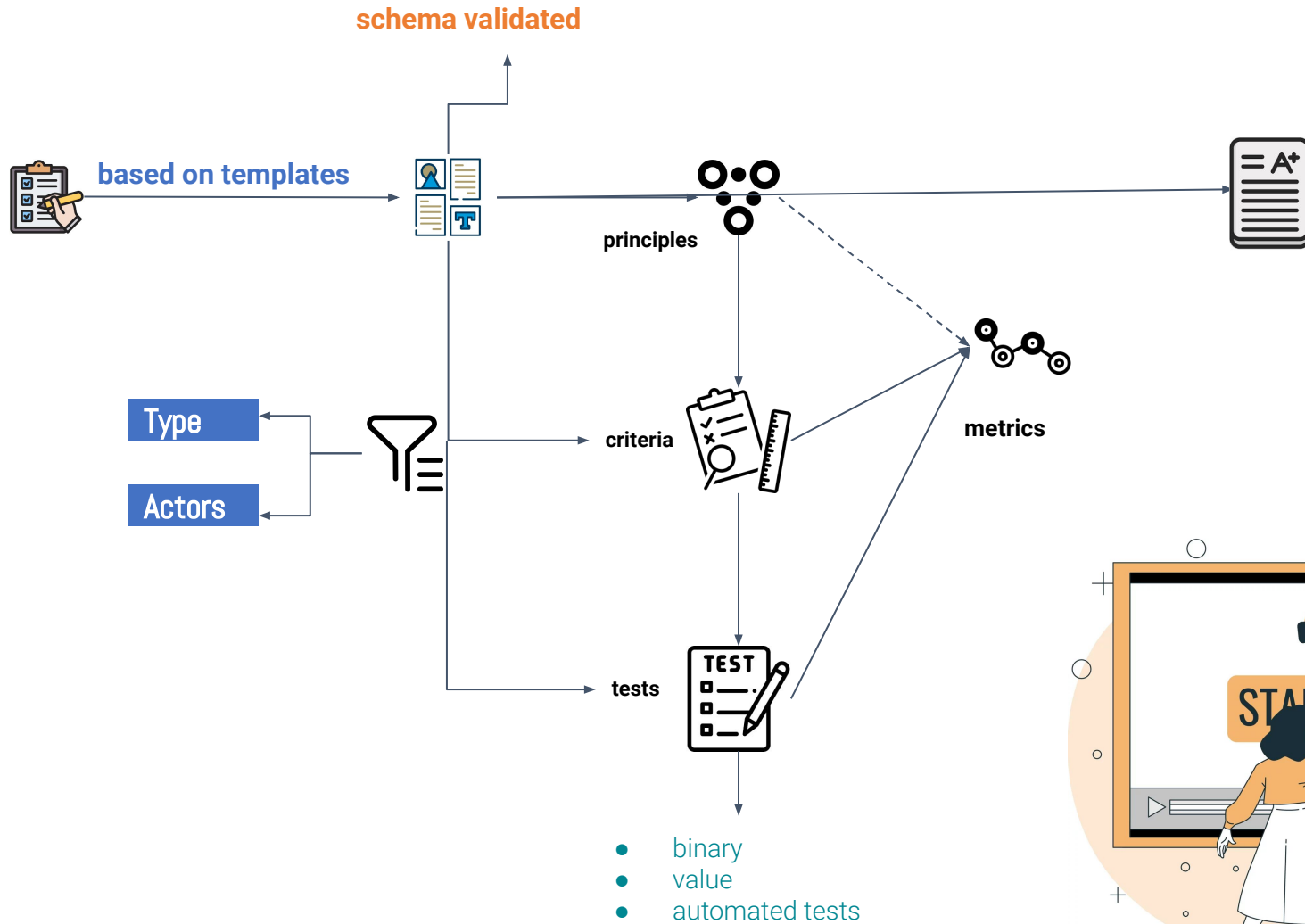


for a specific subject





The Assessment Experience / In Action



Type PID Policy
Actors PID Owner

EXAMPLE

P1 - Application:
C4 - Measurement

Principle P1: Application
PID application depends on unambiguous ownership, proper maintenance, and unambiguous identification of the entity being referenced.

Criterion C4: Measurement **Should**
The PID owner SHOULD maintain PID attributes. Metric: UNKNOWN

Test T4: Maintenance
Question: Do you regularly maintain the metadata for your object?
Answer: Yes No

Evidence:
Please enter a list of 11DI s providing evidence of your claim:

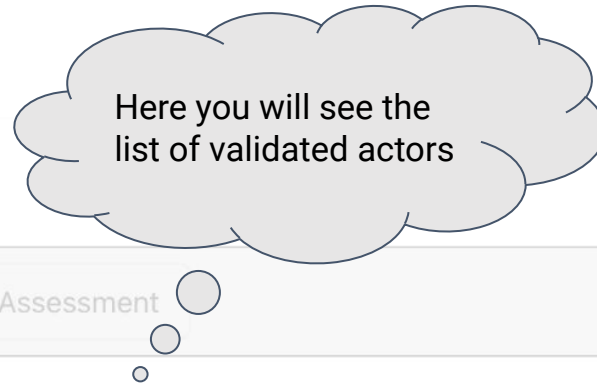
answer the question above

Create Cancel





The Assessment Experience / In Action



✓ create assessment

Step 1. Actor Step 2. Submission Step 3. Assessment

As a first step you need to select one of your validated actor roles in the following organisations:

PID Service Provider at National Infrastructures for Research and Technology - GRNET S.A

← Prev Next → Create Close





The Assessment Experience / In Action

create assessment

Step 1. Actor **Step 2. Submission** Step 3. Assessment

General Info ▼

Name (*) GRNET-Service-Provider

Type eosc pid policy

Submitter ▼

Subject of assessment (Object, Entity or Service) ▼

Rights, Licencing or Re-use ▲

If you are not yet ready to share an assessment result or it is being done for internal purposes only, keep it set to 'private'. Only the results of 'public' assessments are visible to others. - it is private by default

The Assessment is Public and Licensed with CC 4.0 BY

The Assessment is Private

← Prev Next → **Create** Close



The Assessment Experience / In Action

create assessment

Step 1. Actor **Step 2. Submission** Step 3. Assessment

General Info

Submitter

Subject of assessment (Object, Entity or Service)

Rights, Licencing or Re-use

If you are not yet ready to share an assessment result or it is being done for internal purposes only, keep it set to 'private'. Only the results of 'public' assessments are visible to others. - it is private by default

The Assessment is Public and Licensed with CC 4.0 BY

The Assessment is Private

← Prev Next → **Create** Close

Submitter

Name Themis **Surname** Zamani

Affiliation National Infrastructures for Research and Technology - GR **ORCID ID**



The Assessment Experience / In Action

create assessment

Step 1. Actor **Step 2. Submission** Step 3. Assessment

i General Info

g Submitter

g Subject of assessment (*Object, Entity or Service*)

l Rights, Licencing or Re-use

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The Assessment is Public and Licensed with CC 4.0 BY

The Assessment is Private

← Prev Next → **Create** Close

Subject of assessment (*Object, Entity or Service*)

Select an existing subject from previous assessments or define a new one

Subject (*) Select Object Clear Selection

Subject ID (*) 01213

Subject Name (*) GRNET-PIDs

Subject Type (*) Service



The Core: Assessment In Action / Guidance

edit assessment id: 79bad374-7dc3-485c-a81b-3dd0a66cf9a2

Step 1. Actor Step 2. Submission **Step 3. Assessment**

Compliance: UNKNOWN Ranking: Mandatory: 0 / 5 Optional: 0 / 7

C5 - Update Functionality
The PID manager MUST provide the functionality required to maintain PID attributes.

C6 - Ownership Transfer required
The PID manager SHOULD provide policies and contractual arrangements for transfer of ownership should the owner no longer be able to assume responsibilities in compliance with the policy.

C7 - Resolution Integrity
The PID Manager MUST maintain the integrity of the relationship between entities and their PIDs, in conformance to a PID Scheme defined by a PID Authority.

C11 - Versioning required
PID services and PID Managers SHOULD have clear versioning policies.

C14 - Resolution Authenticity or Efficiency
PID Manager MUST ensure that the entity remains linked to the PID. In case that the entity being identified is deleted or ceases to exist, tombstone information needs to be included in the PID attribute set.

C34 - Persistence Mean required

C6: Ownership Transfer Required
The PID manager SHOULD provide policies and contractual arrangements for transfer of ownership should the owner no longer be able to assume responsibilities in compliance with the policy.
part of principle P1: Application

T6 Ownership Transfer ?

Are the specifics of the ownership transfer provisions publicly available through a contract or procedure?
 Yes No

Evidence:
URL: Please enter and add a valid url to support your claim Add

ation

PID application depends on unambiguous ownership, proper maintenance, and unambiguous identification of the entity being referenced.
is offered, encrypted using https?

Guidance G6 ×

Public evidence is available of contractual or procedural provisions for ownership transfer. This will be a self-assessment for the foreseeable future.





The Core: Assessment In Action

edit assessment id: 79bad374-7dc3-485c-a81b-3dd0a66cf9a2

Step 1. Actor | Step 2. Submission | **Step 3. Assessment**

Compliance: **UNKNOWN**
 Ranking:
Mandatory: 0 / 5
Optional: 0 / 7

C5 - Update Functionality
The PID manager MUST provide the functionality required to maintain PID attributes.

C6 - Ownership Transfer required

The PID manager SHOULD provide policies and contractual arrangements for transfer of ownership should the owner no longer be able to assume responsibilities in compliance with the policy.

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C6: Ownership Transfer Required

The PID manager SHOULD provide policies and contractual arrangements for transfer of ownership should the owner no longer be able to assume responsibilities in compliance with the policy.

part of principle P1: Application i

T6 Ownership Transfer

Are the specifics of the ownership transfer provisions publicly available through contract or procedure?

Yes No

Evidence:

URL: Add

Here is the main bar of information

From here you can see the final result of the assessment

Compliance: **UNKNOWN**

Compliance: **PASS**

The actual Ranking

Ranking:

Ranking: 0

And will you are typing you get informed about the number of mandatory and optional remaining criteria

Mandatory: 0 / 13

Optional: 0 / 13

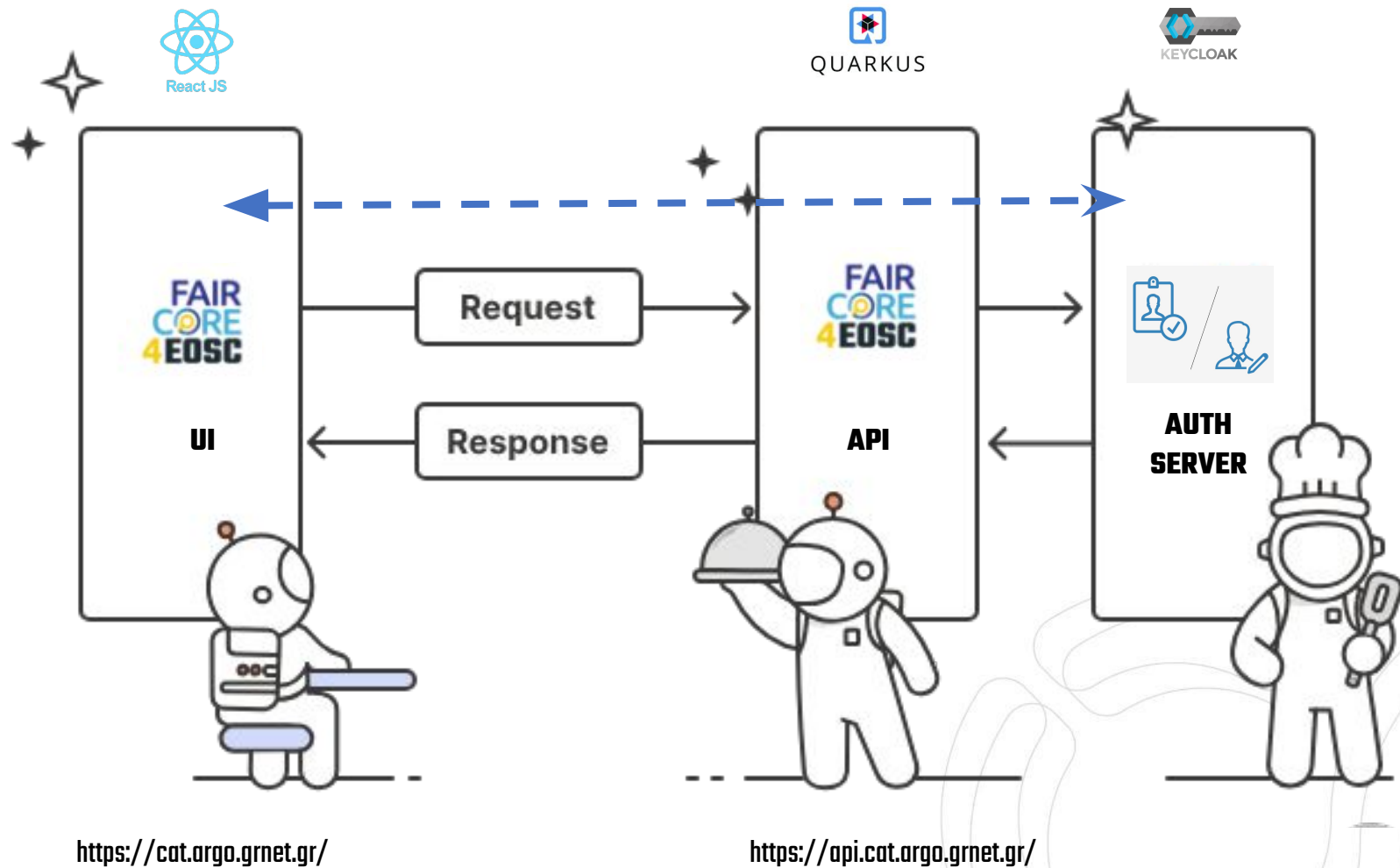
Mandatory: 11 / 13

Optional: 12 / 13





Technologies Used



FC4E CAT
Learn how FC4E CAT Toolkit works
[Read the docs](#) [Explore the API](#)

<https://fc4e-cat.github.io/fc4e-cat-doc/>



Test and send us your feedback

Test the service

Send Feedback



<https://cat.argo.grnet.gr>

<https://forms.gle/gmCr1xhv7VbK4GAF9>



New Features / Ideas - Next Steps

Next Steps

- Give the ability to users to create their own Policy and associated templates
 - Support templates of policies
 - Either copy an existing one
 - Create a new one based on a library of principles, metrics, tests
- More Guidance
 - General Guidance
 - Help topics menu
- Use of a Vocabulary service
- Support a Providers Registry
- Monitor the PID ecosystem → coming next :)





Compliance Assessment Toolkit

Automated Monitoring of the PID Ecosystem

Automated Monitoring: Link Rot Checker Specification

Term / Abbreviation	Description
Reference rot	A reference that is experiencing either link rot or content drift.
Link rot	A resource identified by a URI that has ceased to exist and hence a URI reference to that resource will no longer provide access to referenced content.
Content drift	A resource identified by a URI of which the content has changed to such an extent that it ceases to be representative of the content that was originally referenced.

Eve, M. P., (2024) "Digital Scholarly Journals Are Poorly Preserved: A Study of 7 Million Articles", *Journal of Librarianship and Scholarly Communication* 12(1). doi: <https://doi.org/10.31274/jlsc.16288>

Klein M, Van de Sompel H, Sanderson R, Shankar H, Balakireva L, Zhou K, et al. (2014) Scholarly Context Not Found: One in Five Articles Suffers from Reference Rot. *PLoS ONE* 9(12): e115253. <https://doi.org/10.1371/journal.pone.0115253>



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**Funded by
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