



ISA² Programme - Action 2016.28 – Access to Base Registries

ABR Working Group

28 September 2021

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DIGIT D2 – Interoperability Unit*

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Agenda

- 01** Welcome Note & Round table
- 02** BRegDCAT-AP and reusable open source tools
- 03** Feasibility Study for European Registry of Base Registries
- 04** ABR eLearning
- 05** What's next
- 06** AOB
- 07** Q & A

01 Welcome Note

Round table

Welcome Note & Round Table



Presenting

- Our team and participants in the session
- Progress achieved on ABR project so far



Discussing

- Your view on the presented work
- Your needs and expectations
- What's next

02 Status of solutions

BRegDCAT-AP and BREG DCAT Open Source Tools



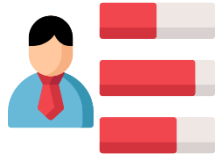
Current version: Bug fix Release v2.01:

Available on Joinup, Solution: [ABR – BRegDCAT-AP](#)

Next update: expected in November 2021.

NOTE: If there are changes with serious impact on interoperability during 2021, the ABR team will produce a major release v3.00 by November, otherwise, the minor version will be released.

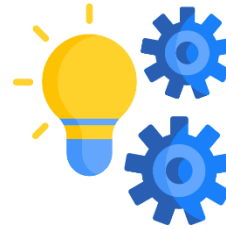
BRegDCAT-AP – Open Source Tools



BREG DCAT
Creator



BREG DCAT
Editor



BREG DCAT
Mapping
Editor



BREG DCAT
Harvester

No changes on descriptions, deployment and adaptability of the tools available on [Joinup](#). Check source code and extra instructions on [GitHub](#).

Reminder on approach:

- ISA² [Interoperability Testbed](#) for [BREG DCAT Validator](#)
- Reused [CPSV-AP](#) (except Harvester)

New feedback received



Q: As decided at the previous WG meeting, EuroVoc should not be mandatory, however, this was not mentioned explicitly for cv:thematicArea (used in cpsv:PublicService).

- Jim J. Yang (Norway) on on BRegDCAT-AP v2.01

A: We will make changes accordingly to this part prior to publishing the major release.



New feedback received



Q: Considering that in BRegDCAT-AP, multiplicity of 1..n for `cv:hasCompetentAuthority` adds some flexibility by covering cases where there is more than one public organizations responsible for the same public service, NDA wanted to know whether there are any examples of cases where several different public organizations are responsible for the same public service, which would justify the need for this property.

- *Jim J. Yang (Norway) on BRegDCAT-AP v2.01 regarding the BRegDCAT-AP multiplicity of 1..n for property **cv:hasCompetentAuthority**.*

Do you agree with this decision?

Decision: the multiplicity for property will stay intact, considering the need of cross border data exchange between Member States.

New feedback received



Q: Raised issue regarding the formats/mediaTypes a DataService may support in BRegDCAT-AP, as this is one of the main considerations when deciding whether a DataService is (re)usable or not. In the current version of BRegDCAT-AP, **dcat:DataService** doesn't have properties **dct:format** and **dcat:mediaType** the way dcat:Distribution has.

- Jim J. Yang (Norway) on BRegDCAT-AP

Proposal:

- To add the following properties to dcat:DataService:
- recommended, format, dct:format, 0..n, range
dct:MediaTypeOrExtent, EU File Type must be used
- optional, media type, dcat:mediaType, 0..n , range
dct:MediaType, IANA Media Types must be used

For discussion:

- Add properties dct:format and dcat:mediaType to dcat:DataService?
- Are there any other possible ways to address this issue?
- Can someone provide examples, etc.

New feedback received



Q: The usage note for `dct:type` in `dcat:DataService` in BRegDCAT-AP v.2.00 says the following: This property refers to the type of the Data Service. It must use a controlled vocabulary that offers the type of master data to represent specific data of Base Registries. This taxonomy of terms has not been defined yet. Is such a taxonomy under development at the EU-level?

- Jim J. Yang (Norway) on BRegDCAT-AP v2.01

A: No, to the best of knowledge.



Q: What should we do in the meantime at national level?

Other Issues (from previous WG)



Checksum: `spdx:checksumAlgorithm_sha1` and the Usage note “Currently, SHA-1 is the only supported algorithm.”

Proposal:

- Why not e.g. SHA-256 which is a better algorithm? This is also registered as an Issue to DCAT-AP.

Proposal:

- supported values to come from list <https://spdx.org/rdf/terms/#d4e1968>
- checksum algorithm md2ni, checksum algorithm md4ni, checksum algorithm md5ni, checksum algorithm md6ni, checksum algorithm sha1ni, checksum algorithm sha224ni, checksum algorithm sha256ni, checksum algorithm sha384ni, checksum algorithm sha512ni

Alignment with DCAT-AP v2.0.1

- Analysis concluded in September 2021.

No misalignments with DCAT-AP v2.0.1.
that needs to be addressed.



What's new in DCAT3

DCAT 3 extends DCAT 2 [VOCAB-DCAT-2] with terms and guidelines on versioning and dataset series, and by including terms for specifying the checksum of a distribution.

The `spdx:Checksum` class, added in this version of DCAT 3 is already proposed for change in DCAT-AP and BregDCAT-AP.

For the property `spdx:algorithm` of the `spdx:Checksum`, the range is the set of individuals of class `spdx:ChecksumAlgorithm`. Version 2.2 of [SPDX] defines individuals for the following algorithms: MD2, MD4, MD5, MD6, SHA-1, SHA-224, SHA-256, SHA-384, SHA-512.

Currently in BregDCAT-AP we have only SHA-1, but we will align with DCAT 3 in the following major release.

What's new in DCAT3

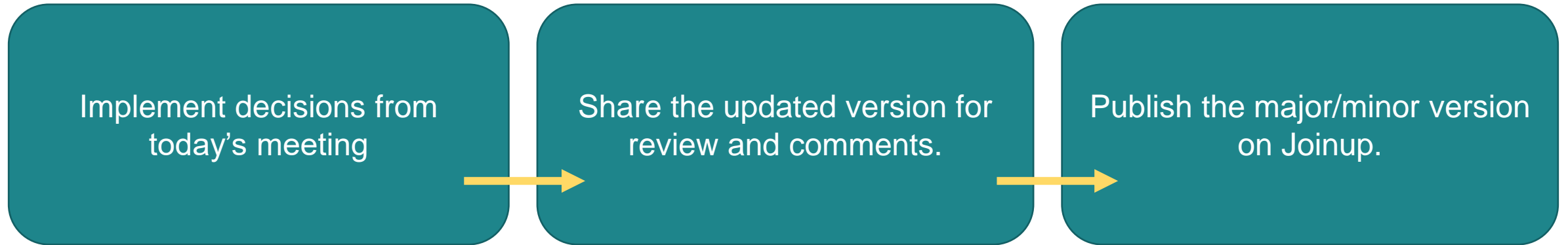
Data series

A new class `dcat:DatasetSeries` is defined, subclass of `dcat:Dataset` and `dcat:Resource`.

Only one property `dcat:inSeries` linking the child datasets to dataset series is defined. The new property `dcat:inSeries` replaces the use of `dcterms:isPartOf` helping to distinguish between the composition in dataset series and Loosely structured catalog.

Finally, properties `adms:prev`, `adms:next`, and `adms:last` have been replaced by newly defined properties - `dcat:prev`, `dcat:next`, and `dcat:last`.

Next steps



- Are you facing any other issues?
- Do you have other proposals for discussion?



03 Feasibility Study for European Registry of Base Registries

Methodology & Conclusions

RoR and ERBR explained

Registry of registries:

- 1) platform which collects and presents the information contained in the national base registries
- 2) reliable source of information
- 3) ensures data quality
- 4) has different functionalities depending on the country
- 5) allows access to national data across different domains

IT IS PRESENT ON THE NATIONAL LEVEL.

European Registry of base registries:

- 1) platform which collects and presents the information contained in base registries in Europe
- 2) reliable source of information on different RoRs
- 3) ensures data quality
- 4) functionalities to be defined
- 5) allows access to data from different countries and across different domains

IT IS PRESENT ON THE EUROPEAN LEVEL.

RoR and ERBR explained

Registry of registries:

1) platform which collects and presents the

2)

3)

4)

5)

It is not an interconnection infrastructure. It is a catalogue that collects metadata about the data contained in the registries.

IT IS PRESENT ON THE NATIONAL LEVEL.

European Registry of base registries:

1) platform which collects and presents the

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IT IS PRESENT ON THE EUROPEAN LEVEL.

RoR and ERBR explained

Registry of registries:

1) platform which collects and presents the

2)

3)

4)

5)

What is the difference between the European Data Portal (EDP) and the European Registry of Base Registries?

IT IS PRESENT ON THE NATIONAL LEVEL.

European Registry of base registries:

1) platform which collects and presents the

ies in

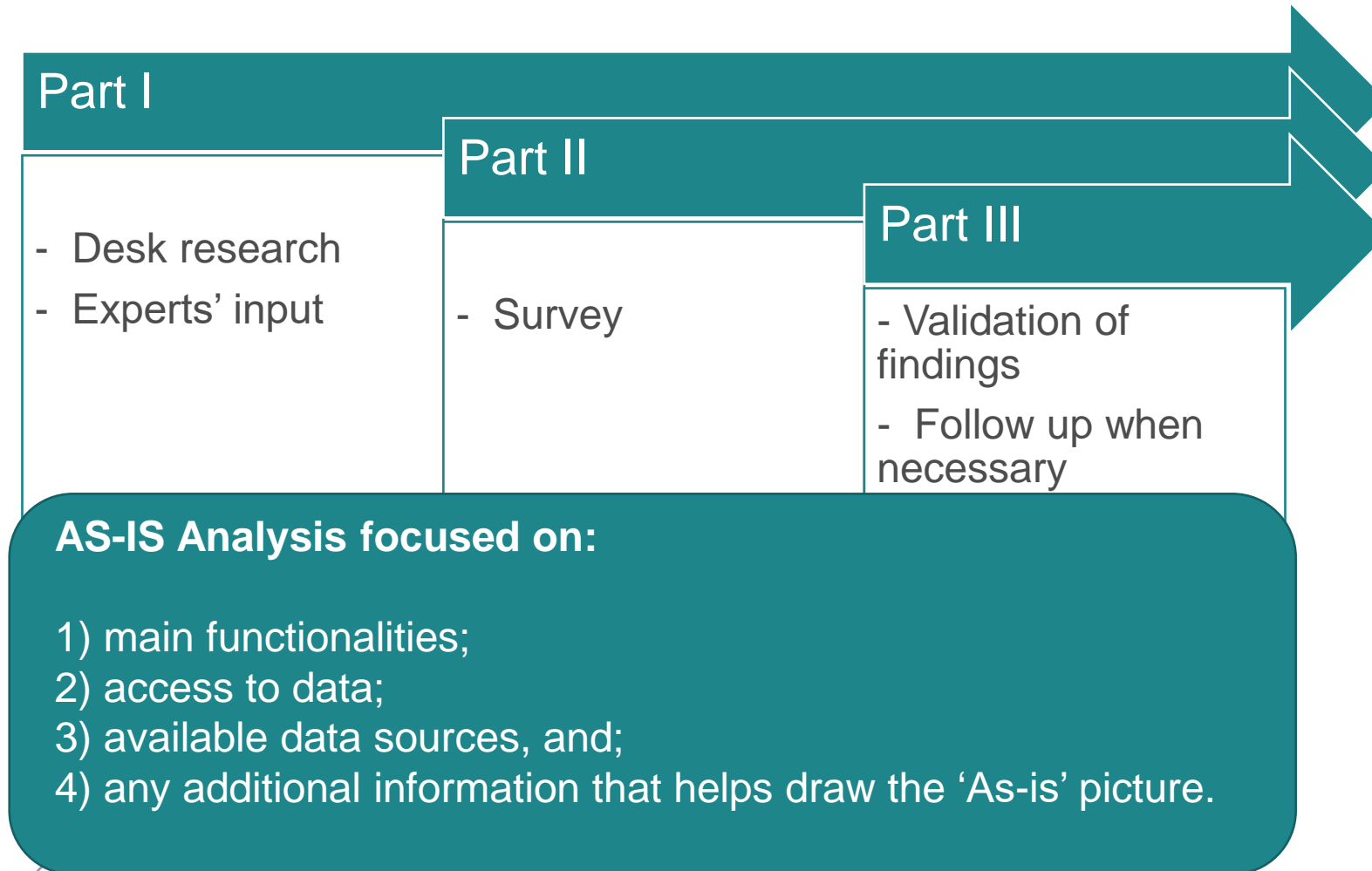
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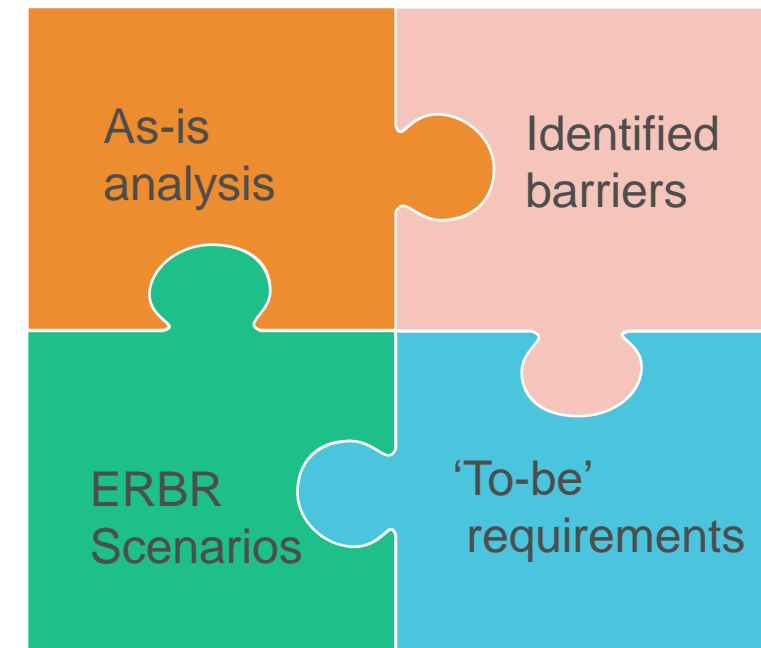
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IT IS PRESENT ON THE EUROPEAN LEVEL.

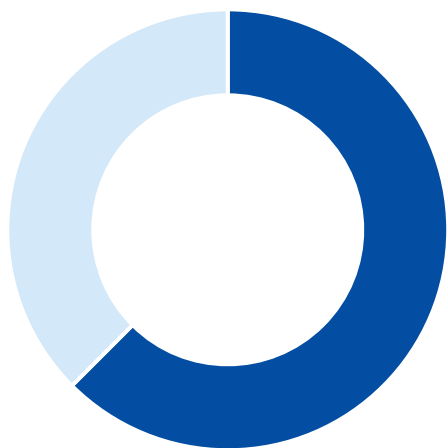
Methodology



FEASIBILITY STUDY

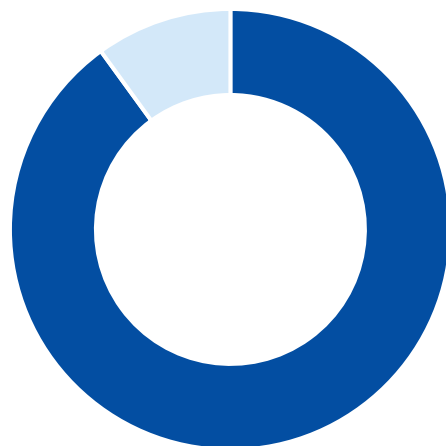


Overview of results 1/2



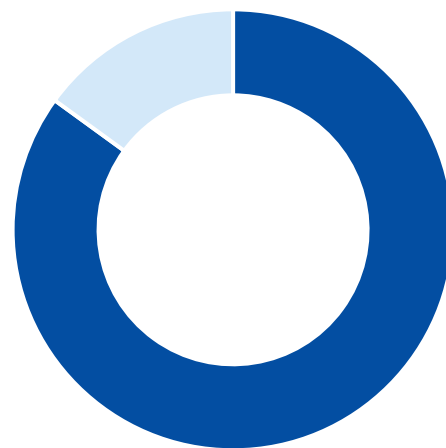
RoR in place

The majority of countries have certain form of RoR in place or they are planning to develop one.



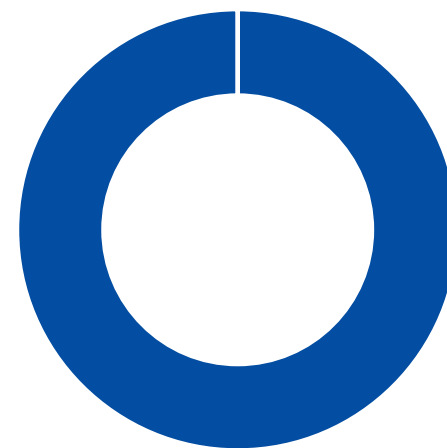
Data sources

The majority of domestic RoRs make a clear and explicit distinction between data sources.



Functionalities

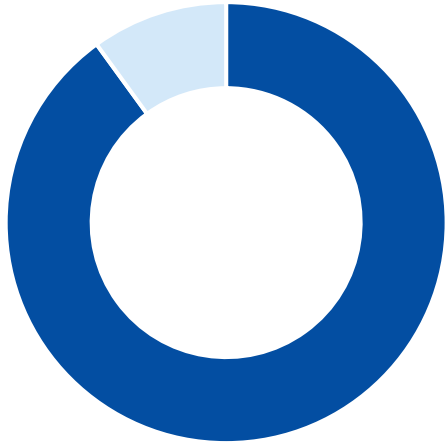
'Search', either full-text or faceted' is the most present feature.



ABR support

All of them are aware of the support offered under ABR action.

Overview of results 2/2



ERBR

The majority of respondents finds creation of ERBR useful.

Good to have features



‘Push’ (server-initiated) notifications for changes in registries

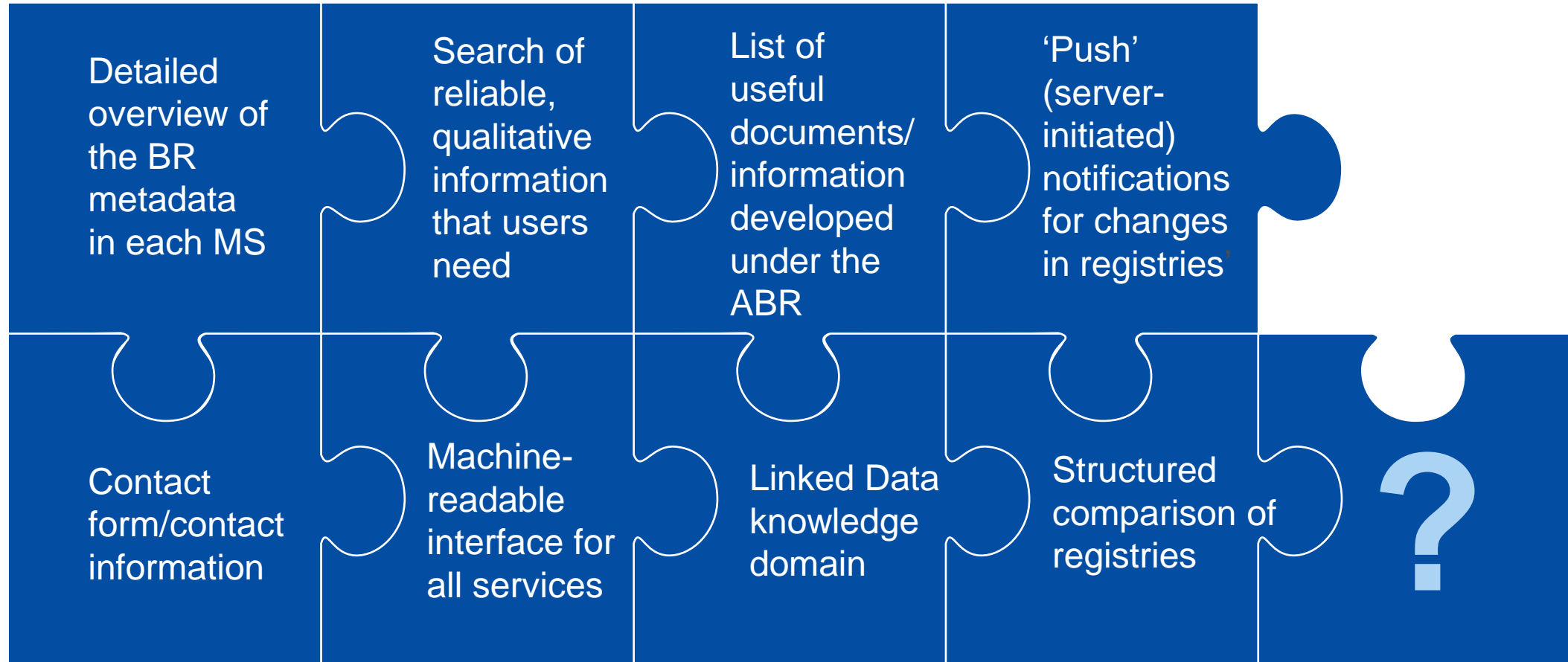


Structured comparison of registries



Is there anything else you would like to add/comment on?

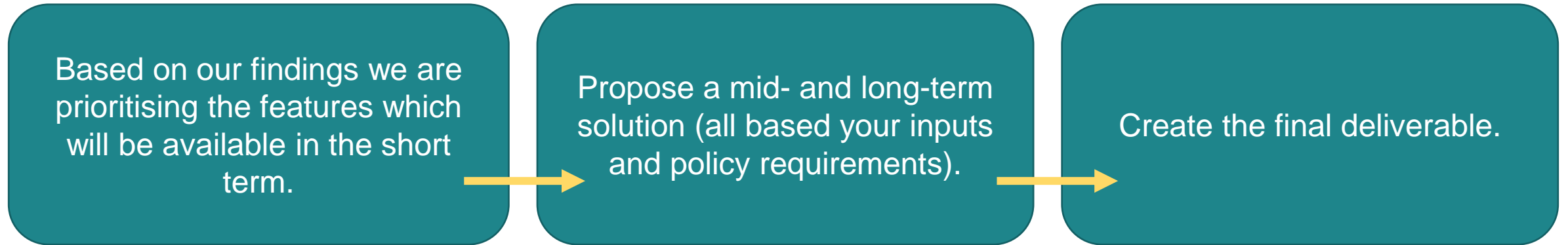
List of ERBR requirements based on survey



Identified barriers

No.	Challenge	Potential way to tackle it
1	Some countries do not have a RoR in place, or the service is fragmented in multiple disparate pieces and presents numerous barriers of entry for newcomers.	A comprehensive RoR with a single entry-point would have to be implemented in these cases.
2	The level of adoption of Linked Data principles is lower than expected. A significant number of RoR may have to dedicate resources to model their datasets using RDF technologies.	Provide MS with specialized support materials in the Linked Data domain. For example, preparing a guide with clear examples explaining how other MS have already solved this issue in real life cases.
3	There are some misalignments between MS in their interpretation of a registry of registries or a base registry.	The ERBR implementation effort would benefit from countries working towards adopting concise and globally accepted definition of these terms.

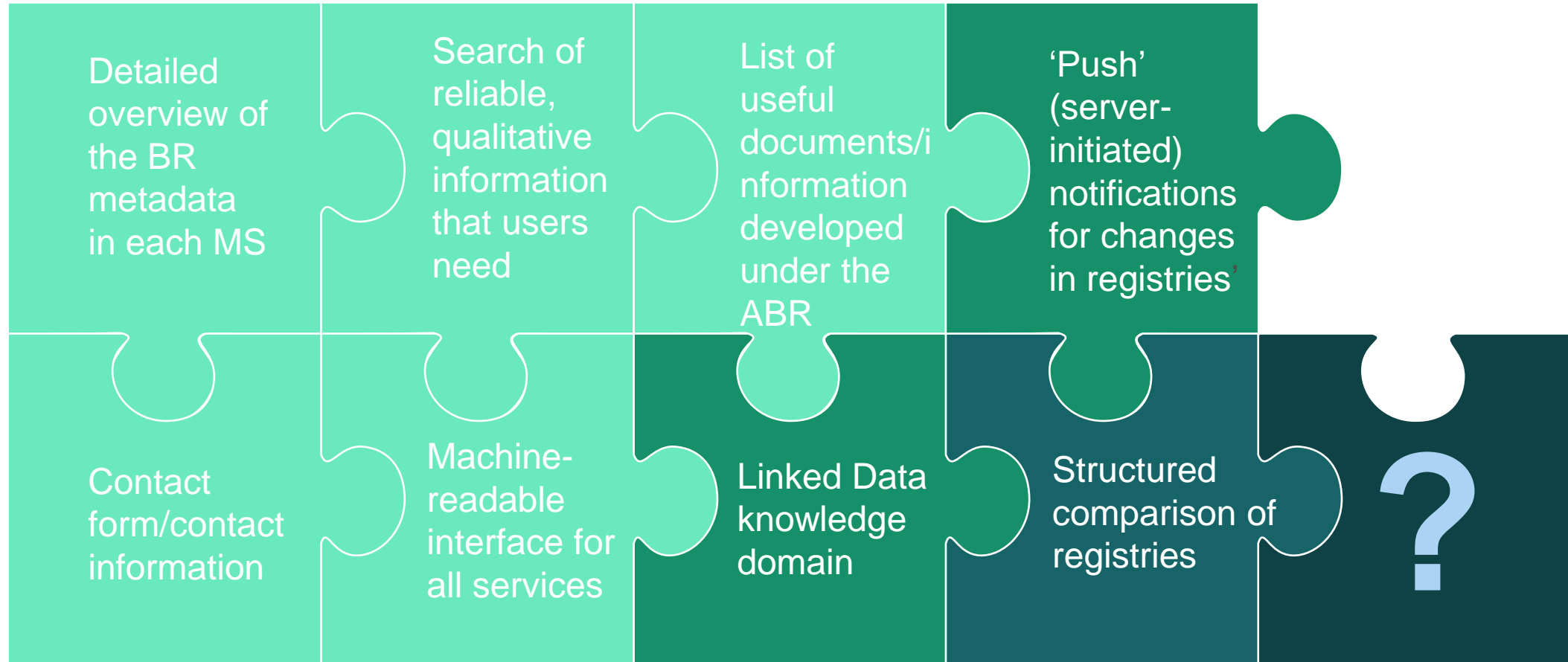
Next steps



- Is there something else you would like to add, or any other requirements to mention?



List of ERBR requirements based on survey



04 ABR eLearning

Feedback & proposals

ABR eLearning



Interoperability Academy offers, in a single location, resources and courses for learning about Interoperability solutions.

Objectives of the Interoperability (IOP) Academy

- To increase the adoption of ISA² and CEF solutions by improving the knowledge of public servants.
- To become the eLearning solution supporting European Digital Government Eco-System (EDGES) in Digital Europe Programme (DEP).
- To build a community around advanced digital skills and promote knowledge exchange.

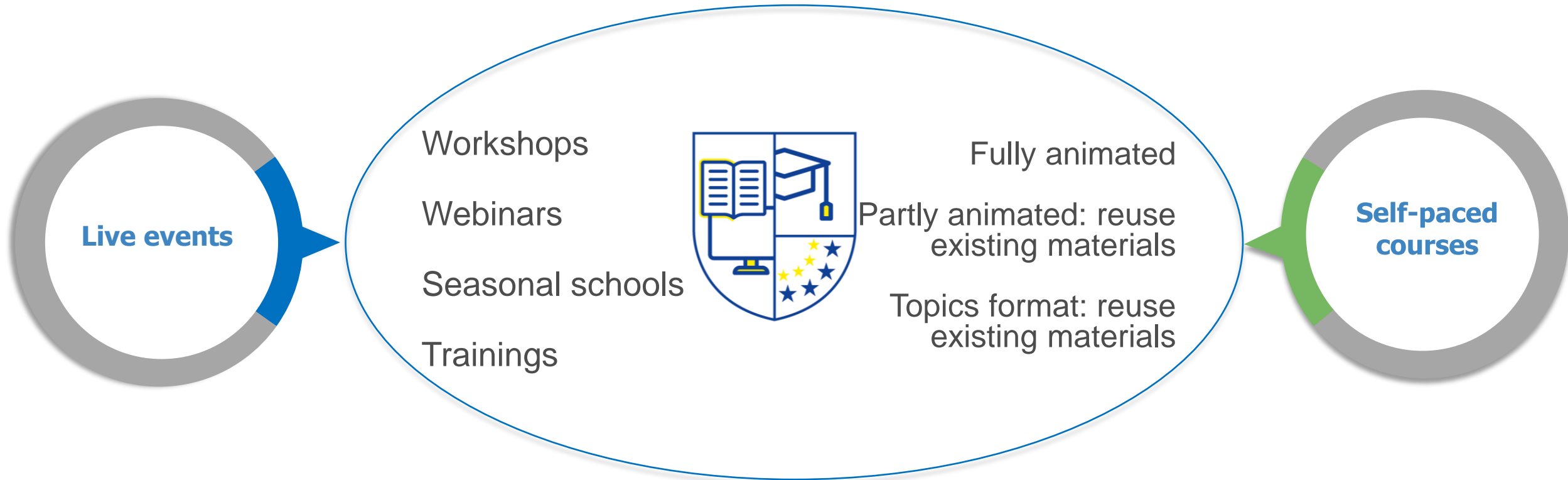


ABR online course: work in progress



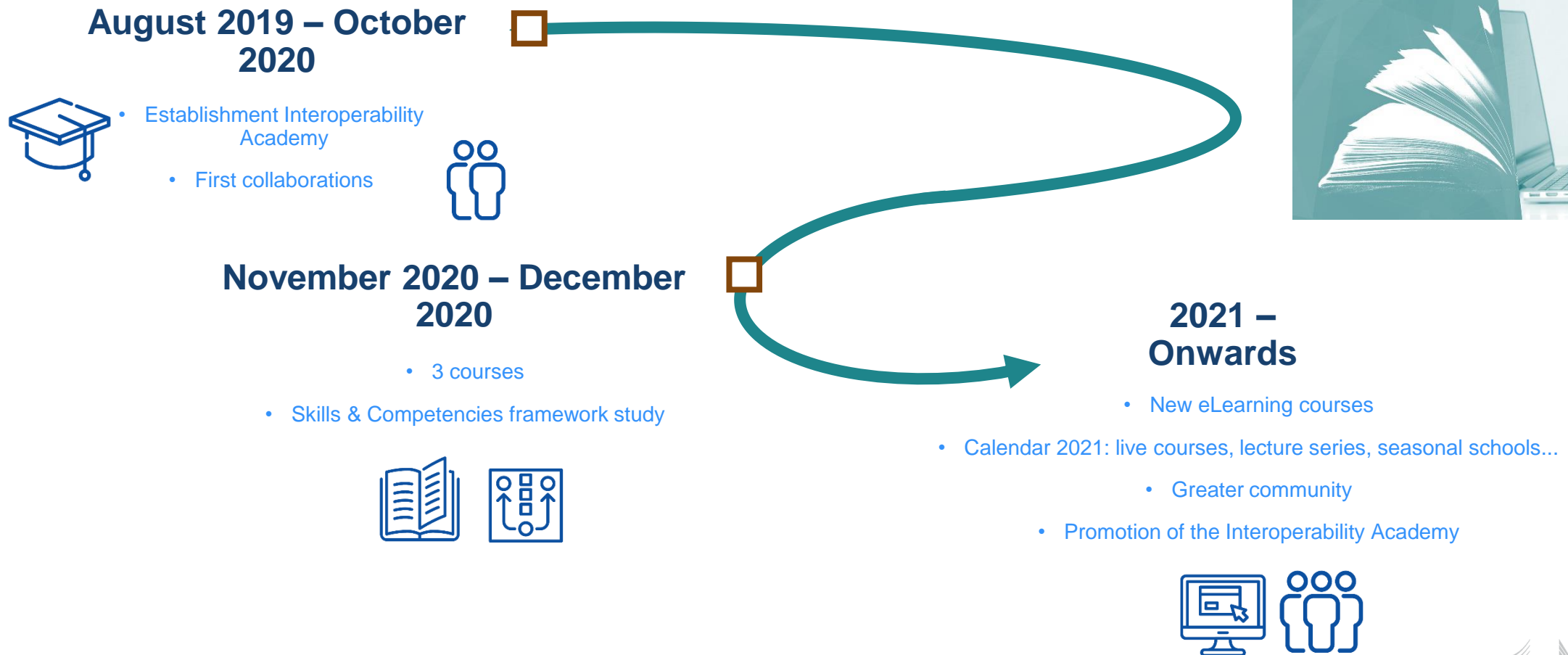
ABR eLearning

Interoperability Academy consists of two main activity types

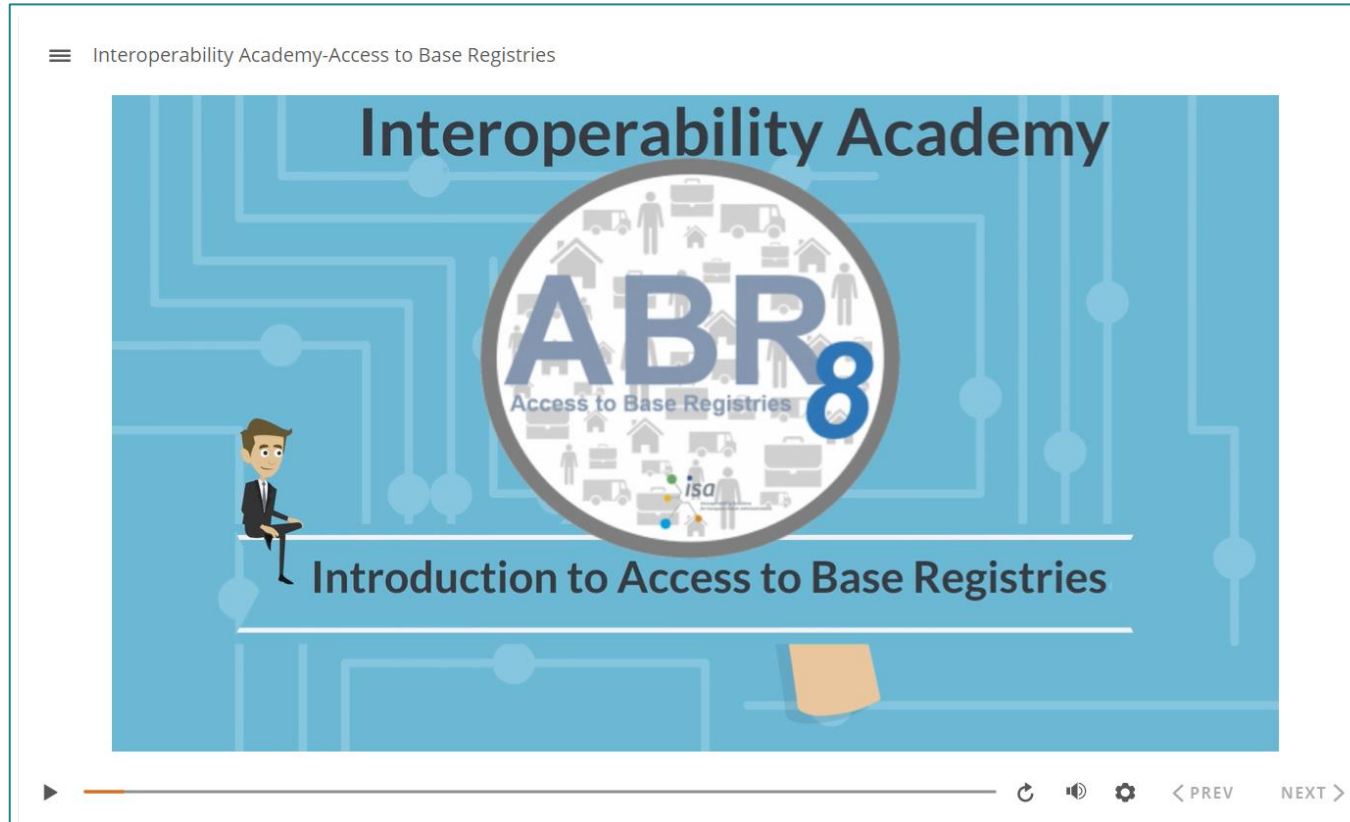


Develop the skills needed to achieve interoperable **cross-border and cross-sector public services**

ABR eLearning



ABR eLearning



1. Introduction to Access to Base Registries
2. BRegDCAT-AP and its advantages
3. How to implement BRegDCAT-AP
4. Reusable tools
5. Assessment

ABR eLearning

How can we build use case together?

05 What's Next

What's planned with your involvement

Maintenance of BRegDCAT-AP & BREG DCAT Open Source Tools:

ABR Working Groups & Discussions

Alignment with DCAT-AP and other EU standards

Technical and semantic support to MS and EU on implementations

- What are your plans on reuse & implementation?

ABR eLearning:

- Test, provide feedback
- Suggest examples
- Propose new content for the next courses

Webinars, interviews, case studies – exchange of good practices

06 AOB



Access to Base Registries

Last update
15 days ago

86 Members
2 Solutions



Overview

Members

ABR - Catalogue of Solutions

ABR Good Practices

ABR Guidelines on
Interconnection

ABR Member States Factsheets

Improving national and cross-border access to government data. Base registries represent authoritative databases and a trusted source of basic information on data items such as people, companies, vehicles, licences, buildings, locations and roads. The ISA² Action 2016/28 'Access to Base Registries' (ABR) aims at defining a common framework for base registries access and interconnection, and developing supporting tools that would make national and cross-border access to the base registries more... [Read more](#)

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News

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Discussions

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Documents

MORE

About: **all policy domains**



ABR - BRegDCAT-AP Tools

solution



ABR - BRegDCAT-AP

solution



Follow CMISA presentation
in ENDORSE on 18 March!

news



ABR WORKING GROUP -
MARCH 2021

23/03/2021 event



Pan-European Open
Source Inventory

news



ABR Achievements 2020

news

Base Registries Access and
Interconnection
Framework - BRAIF - v3.00
Document

Base Registries Access and
Interconnection Framework aims
to guide Member States on the

ABR, BRAIF

document

BO
SA
Federal Public Service
Policy and Support

Highlights of Interview -
Belgium

news



Check highlights from ABR
webinar on 16 November
2020 !

news

BREG DCAT Practical
Example
Document

An RDF model with sample of
data represents a practical
example on how BRegDCAT-AP
specification works. Any

breg-dcat-ap, BRegDCAT-AP

document



Highlights of Interview -
NIIS - X-Road

news



Highlights of Interview -
Luxembourg

news

sentation-endorse-18-march

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For any questions, contact us at
ABR@trasysinternational.com



European
Commission

07 Q&A

Q&A



Any Questions?

Thank you for your participation!



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