# Webinar
## ABR - Specification of Registry of Registries
*Brussels, 8 April 2019*

**EUROPEAN COMMISSION**
*Directorate - General Informatics*
*Directorate D – Digital Services*
*DIGIT D2 – Interoperability Unit*
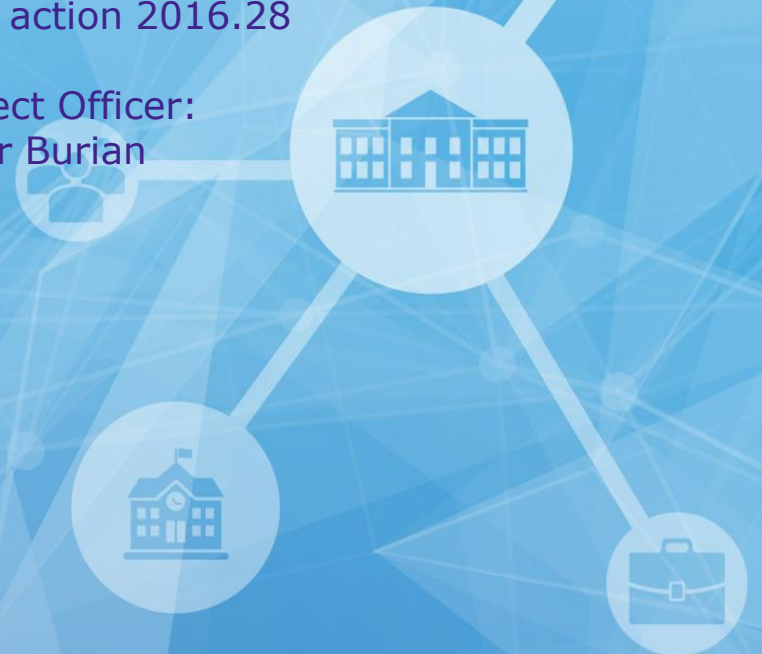
**Specific Contract n° 157**
under ABC IV – Lot 3 *Framework Contract*

# Access to Base Registries

ISA$^2$ action 2016.28

Project Officer:
Peter Burian

ISA$^2$

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This publication is used to support a webinar that will be recorded and made available to the participants.

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# Agenda

1. Welcome note

2. ISA² Action 2016.28 'Access to Base Registries'

3. Presentations on Best Practices and Challenges

4. Specification of Registry of Registries:

   • Base Registries DCAT-AP

   • Data Model and Vocabulary (early editor's draft)

   • ABR Working Group

5. Q&A

# Welcome Note

# ISA² Action 2016.28

ISA² Action 2016.28 'Access to Base Registries' (ABR)

▪ **ABR Purpose:**

Ensure interconnection and access to the information in different types of base registries of Member States (MS) in order to be able to deliver cross-border and cross sector public services.

▪ **ABR Scope:**

✓ Finalization of a framework for Base Registry Access and Interconnection;

✓ Maintenance of ABR Collection on Joinup;

✓ **Elaboration of Specification of Registry of Registries**

▪ **ABR Outcomes:**

✓ The semantic specifications facilitating further creation of EU Registry of Registries;

✓ The Framework as a guidance on how to grant access to the data in Base Registries and how to interconnect them;

✓ The exchange of Best Practices that is of great interest of many Member States

The valuable impact of this work will be an easier exchange of information cross-sector and cross-border, and the eventual set-up of cross-border European public services

# PRESENTATIONS ON

# BEST PRACTICES AND CHALLENGES

Norway – 'Approaches and challenges related to "Registry of Registries"'

Denmark – 'Good basic data for everyone – a driver for growth and efficiency'

Malta – 'The National Data Portal (Register of Registers)'

# SPECIFICATION OF REGISTRY OF REGISTRIES.

## BASE REGISTRIES DCAT-AP

## DCAT & DCAT-AP

The DCAT Application Profile for Data Portals in Europe (DCAT-AP) is a specification based on the W3C Data Catalogue Vocabulary (DCAT).

DCAT-AP provides a common specification for describing public sector datasets in Europe to enable the exchange of descriptions of datasets among data portals.

There are two existing DCAT-AP extensions:
- GeoDCAT-AP for describing geospatial datasets, data series and services;
- StatDCAT-AP for describing statistical datasets within the statistical domain.

DCAT-AP and its extensions were created and are maintained in an open process with dedicated Working Groups and public review.

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## BRegDCAT-AP

The DCAT Application profile for **base registries in Europe** (BRegDCAT-AP) is an extension of DCAT-AP for describing base registries, and the base information they contain, as well as the services they provide.

This specification is based on the Data Catalogue vocabulary (DCAT) Application profile for describing public sector datasets in Europe.

It is based on a use case to enable cross-border interoperability between base registries, defining a semantic model to describe base registries and their contents.

The work will be aligned with the new version of W3C DCAT (DCAT 2), and with DCAT-AP.

This DCAT Application profile for base registries will contribute to develop an European Registry of Base Registries.

# Why is this DCAT application profile needed?

One of the long-term goals of a European Registry of Base Registries (ERBR) is to provide a full interconnection of base registries at the European level.

The BRegDCAT-AP will contribute to describe base registries and their contents, aiming at:
- Facilitating data discovery;
- Reducing redundancy and supporting the Once-Only principle;
- Facilitating exchange of data;
- Improving transparency;
- Reducing cultural / language barriers in the exchange of data;
- Enabling a mechanism for subsequent update of base registries and content.

# Cornerstone of Interoperability

BRegDCAT-AP will define an abstract model, a vocabulary and taxonomies to describe BRs and deliver reusable metadata (e.g. by an API)

"In a long run, the ERBR should allow searching for base registries and the items contained in them either through a GUI or an API."

Vision Document for European Registry of Registries

# Base Registries DCAT-AP



**European Registry of Base Registries**

Need for Legal, Technical, Organizational Standards

# INSPIRE and EDP as reference

An important step to achieve an ERBR is to exchange a homogeneous descriptive information about registries and their content. For this, we need standards such as DCAT, cornerstone of the **European Data Portal** — a reference in terms of metadata interoperability — that allows it to collect and aggregate information from all Member States automatically.

**INSPIRE** Register of Registers is based also in DCAT (GeoDCAT-AP).

Since DCAT is a generic vocabulary to represent Data catalogues, the BRegDCAT Application profile would have **additional descriptive elements** that fit the reality of Base Registries in Europe (and in the rest of the World).

# Semantic interoperability challenge

The work will be based on ISA$^2$ Core Vocabularies.

Although it might be expected to have multiple languages describing Base Registries, WG will recommend the use of specific **multilingual taxonomies**, and the **EuroVoc** thesaurus for the work of the BRegDCAT Application profile.

The work will be based on the Publications Office recommendations, relying on Named Authority Lists (value lists): *Access right, Administrative territorial unit, Country, Data theme, Dataset types, Language, Organization type, Target audience, etc.*
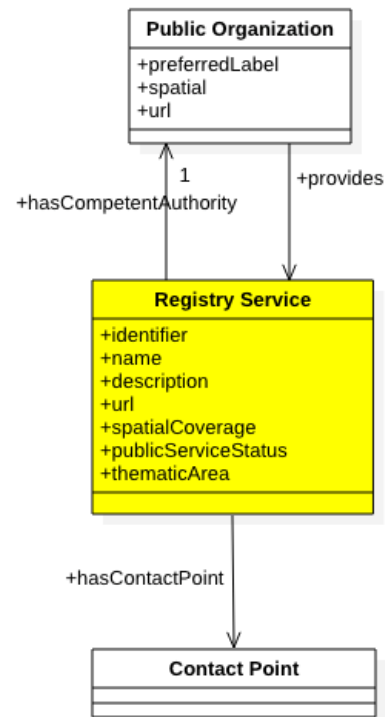
# SPECIFICATION OF REGISTRY OF REGISTRIES.

## DATA MODEL AND VOCABULARY (EARLY EDITOR'S DRAFT)
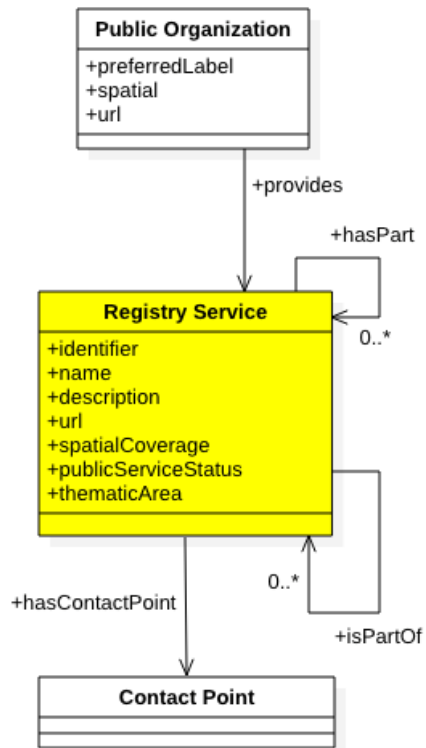
## Base Registry (Service)

cpsv:PublicService
cv:PublicOrganization

# Data Model and Vocabulary

## Registry of Base Registries (Service)
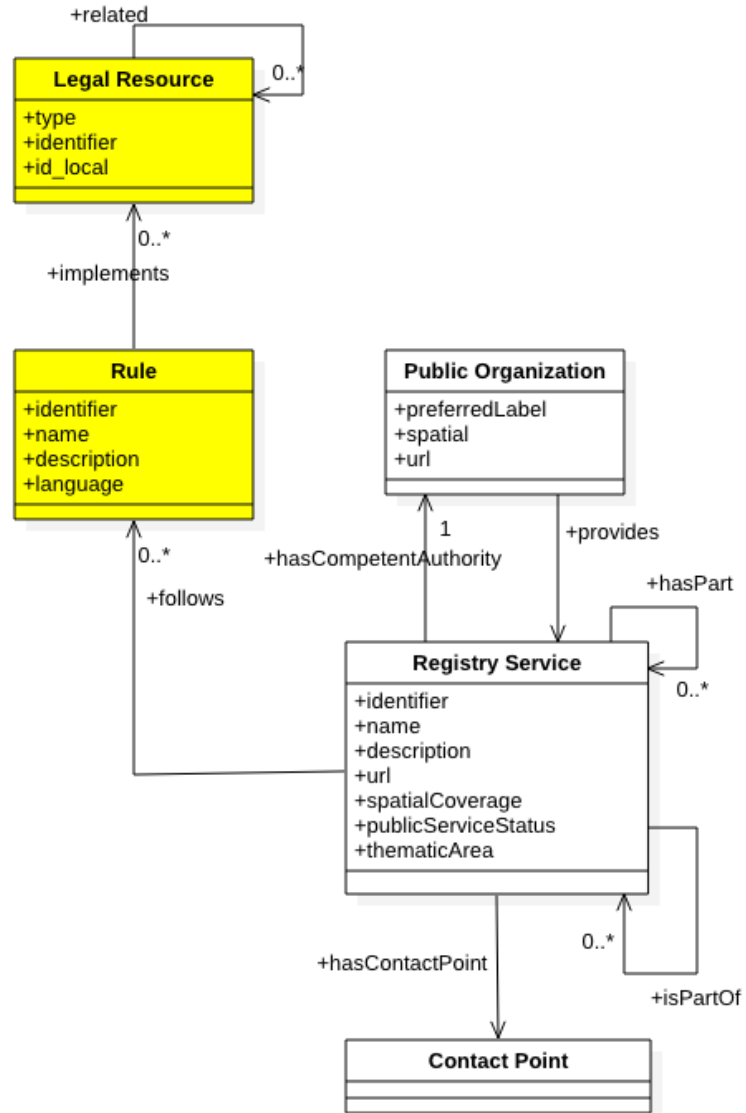
cpsv:PublicService
hasPart/isPartOf

# Data Model and Vocabulary
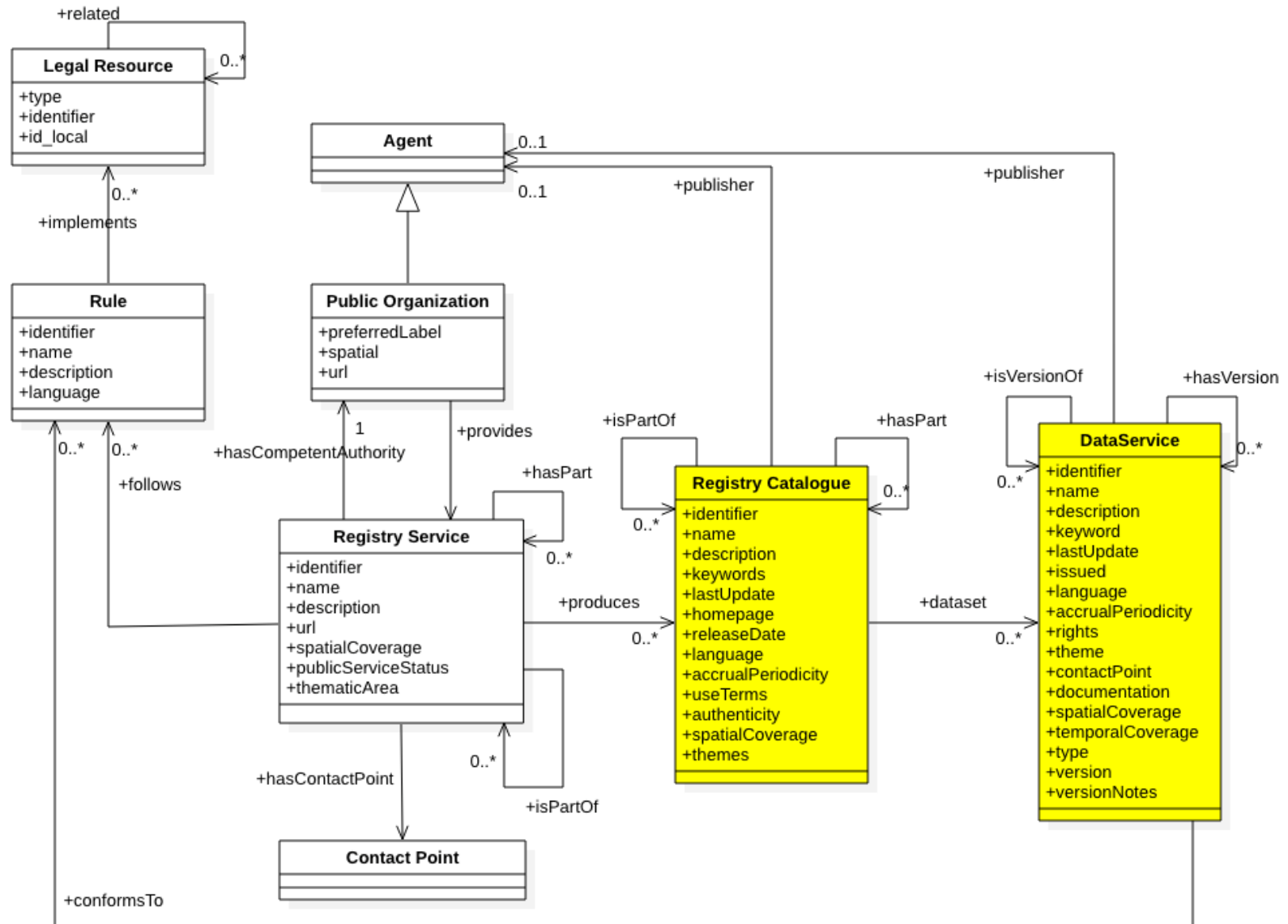


## Legislation

cpsv:Rule
eli:LegalResource

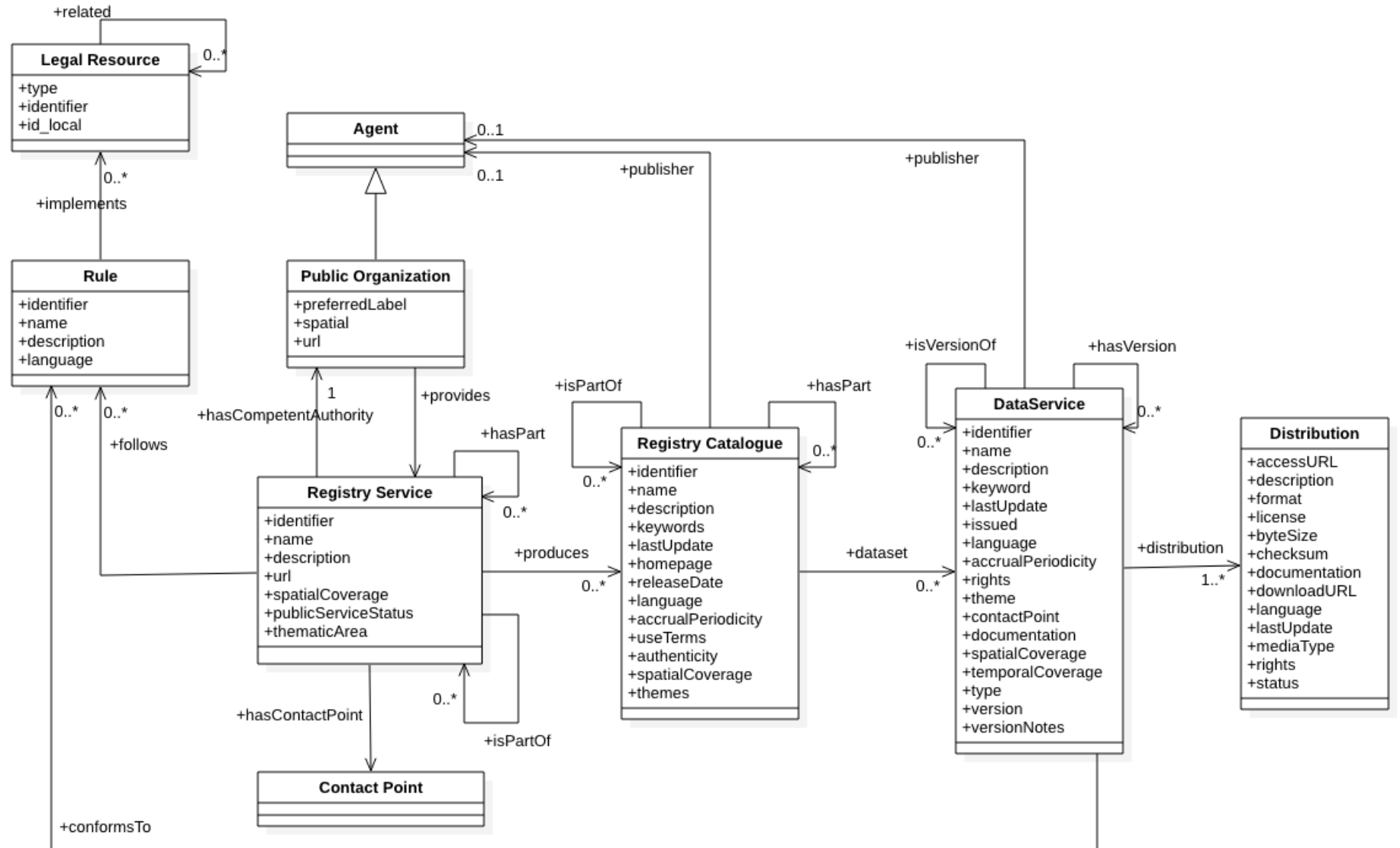## Registry Data

dcat:Catalogue

dcat:Resource
dcat:Dataset
dcat:DataService

# Data Model and Vocabulary

## Data Model

# Challenges to further discussion within the group

- **Statuses** of a Registry?
- Registry/Dataset **Themes**?
- New Type of Dataset for **Master Data** in
  https://publications.europa.eu/en/web/eu-vocabularies/at-concept-scheme/-/resource/authority/dataset-type/
- **Contact Points**? In Registry Service, also in Datasets?
- Data **Access Rights**: http://publications.europa.eu/resource/authority/access-right
- Data Quality/**Authenticity**: https://www.w3.org/TR/vocab-dcat-2/#quality-information
- **Provenance**: https://www.w3.org/TR/vocab-dcat-2/#examples-dataset-provenance
- Other points

# SPECIFICATION OF REGISTRY OF REGISTRIES.

## ABR WORKING GROUP

# ABR Working Group Principles

- Transparent
- Open to everybody
- Decisions based on consensus
- Public outcomes on Joinup
- Asynchronous work (to facilitate participation)
- Collaborative
- Attribution of Work
- Based on current standards
- Europe > Worldwide Application Profile

# Base Registries DCAT-AP - Roadmap

| | FEB'19 | MAR'19 | APR'19 | MAY'19 | JUN'19 | JUL'19 | AGO'19 | SEP'19 | OCT'19 |
|---|---|---|---|---|---|---|---|---|---|
| **Creation of BRegDCAT-AP working group** Desk research, invitations and creation of the working group. | ■ | ■ | | | | | | | |
| **BRegDCAT-AP Development** Iterative process to create the main specification. | ■ | First Draft (reference) | ■ | ■ | ■ | ■ | ■ | Last Call Draft | FINAL version |
| **Webinar & Discussion** Working Group Members | | | ◆ | | | | | | |
| **Working Group Meeting (remote)** Document updated. Discussion on open issues | | | | | ◆ | | | | |
| **Working Group Meeting (remote)** Last Call Draft to be presented in a face-to-face meeting. | | | | | | | | ◆ | |
| **BRegDCAT-AP Final version** Publication of the final version of the document. | | | | | | | | | ◆ |

# Nominations of WG Members from ISA² Committee

| | | |
|---|---|---|
| Belgium | | Norway |
| | Latvia | |
| Croatia | | Portugal |
| | Lithuania | |
| Czech Republic | | Slovakia |
| | Luxembourg | |
| Estonia | | Slovenia |
| | Malta | |
| Germany | | Spain |
| | Montenegro | |
| Italy | | Sweden |

# Sign up now!

**If you do not have an account on Joinup,**

**Create a new account:**
**https://joinup.ec.europa.eu/user/register**

**Join ABR Collection on Joinup:**
**https://joinup.ec.europa.eu/collection/access-base-registries**

**Let us know you joined via:**
**ABR@trasysinternational.com**
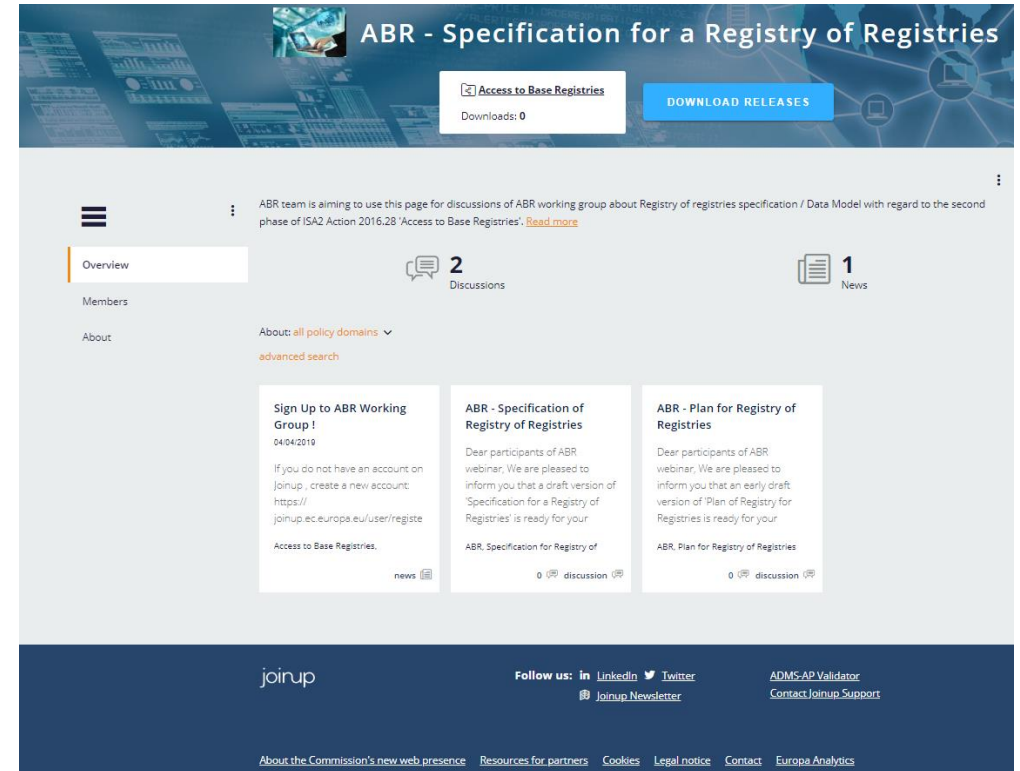


**ABR Team will add you as a Member of**
**ABR – Specification of Registry of Registries**

Thank you for your participation!