

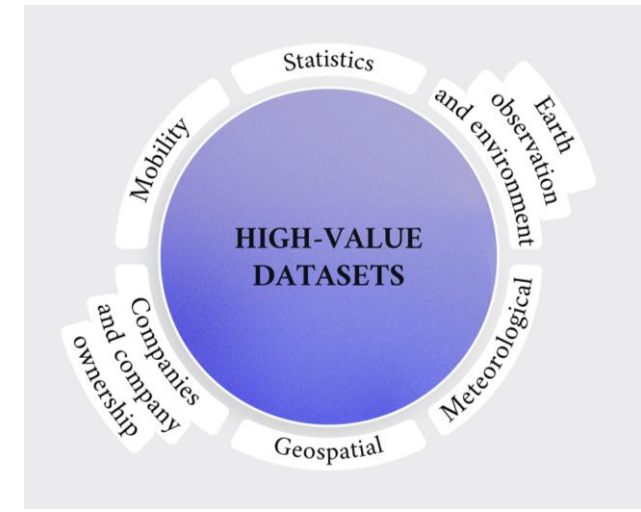


ISO & GeoDCAT-AP metadata implementation pilot

**European Commission SEMIC Group (DG DIGIT) and DG JRC,
Publications Office of the European Union
& Member States**

Introduction

ISO & GeoDCAT-AP Pilot Context



Policy

- **GreenDataForAll ([URL](#))**
Modernisation of the rules governing [European environmental geospatial data sharing](#) under the INSPIRE Directive, and the Directive on public access to environmental information.
- **Commission Implementing Regulation (EU) 2023/138 ([URL](#))**
Alignment with [High-Value Datasets](#) implementation.

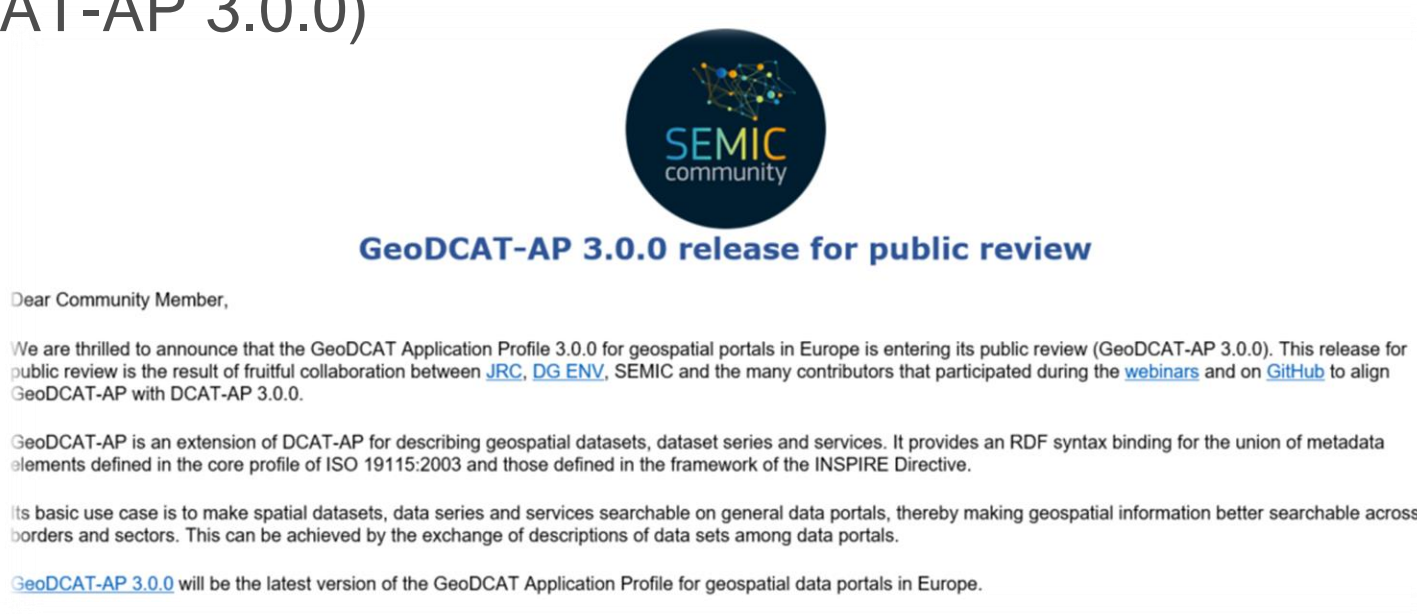
Implementation & Actions

- **MIG Action 2.5 ([URL](#))**
Ad-hoc Subgroup on the [Alignment of INSPIRE and High-Value Datasets](#) implementation.

GeoDCAT-AP 3.0.0 Release



- **GeoDCAT Application Profile 3.0.0** for geospatial portals in Europe (GeoDCAT-AP 3.0.0)



- Released for public review - **9 July 2024**.
- Official release - **4 October 2024**.

<https://semiceu.github.io/GeoDCAT-AP/releases/3.0.0/>

GeoDCAT-AP 3.0.0 Highlights

- **GeoDCAT 3.0.0**
 - Facilitates the transformation of metadata managed by national geospatial data catalogues and their integration within the **data.europa.eu** reporting flow.
 - Constitutes an **updated mapping** between geospatial / INSPIRE (ISO 19139) and (Geo)DCAT metadata.
 - GeoDCAT 3.0.0 metadata is **compliant to** the most updated versions of:
 - European DCAT profile: DCAT-AP 3.0.0 ([URL](#)).
 - Global DCAT profile: DCAT 3.0 specification ([URL](#)).
 - Provides additional rules to satisfy the provisions set for **High-Value Datasets**:
 - DCAT-AP for HVDs Profile ([URL](#)).



GeoDCAT-AP 3.0.0

04 October 2024

▼ More details about this document

This version:

<https://semiceu.github.io/GeoDCAT-AP/releases/3.0.0/>

Latest published version:

<https://semiceu.github.io/GeoDCAT-AP/releases/>

Latest editor's draft:

<https://semiceu.github.io/GeoDCAT-AP/drafts/latest/>

History:

[Commit history](#)

Latest Recommendation:

<https://semiceu.github.io/GeoDCAT-AP/releases/2.0.0/>

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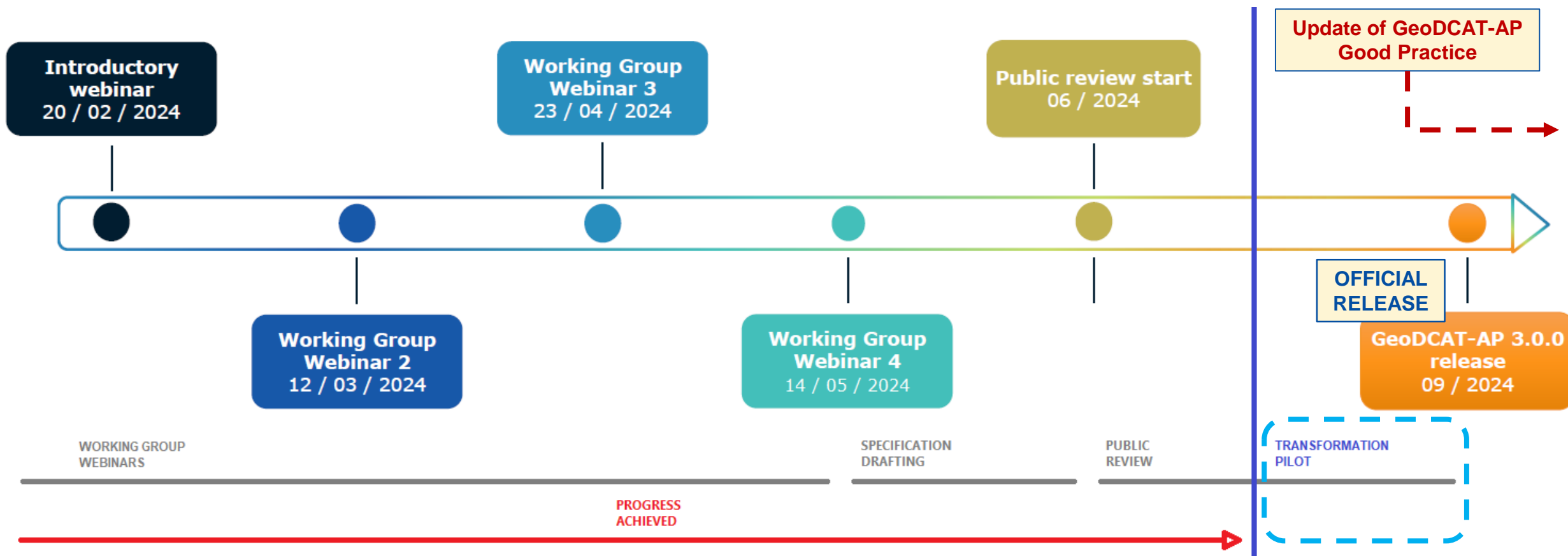
GeoDCAT-AP 3.0.0

A collaborative work - Status



- GeoDCAT-AP Working Group

https://knowledge-base.inspire.ec.europa.eu/evolution/good-practice-library/geodcat-ap_en



<https://joinup.ec.europa.eu/collection/semic-support-centre/events>

ISO & GeoDCAT-AP Pilot Participants



Strongly advisable the partnership and participation of Geospatial and Open Data Representatives

- **Member States**

Contact points for the national geospatial catalogues, as **users of GeoDCAT-AP** to **transform geospatial metadata**.

- Expected participants:  BE – Flanders,  CZ,  DK,  IT
 FI,  NL,  ES,  SK

- **Publications Office of the European Union (OP) / European Data Portal** (data.europa.eu)
Future receptor of GeoDCAT-AP metadata and transformation re-user.

- **DG DIGIT SEMIC group**

Point of contact for **resolving and contributing to solutions** in case potential issues.

- **DG JRC**

Organiser of the pilot, and provider of **scientific & policy knowledge**.



Pilot proposal

ISO & GeoDCAT-AP Pilot

General Objectives



- Evaluating the **adequacy** of:
 - The **GeoDCAT-AP 3.0.0** specification.
 - Its accompanying **XSLT transformation**.
- Smooth the **integration of geospatial metadata assets** within the **data.europa.eu** reporting workflow.
 - Put in practice a **pragmatic sandboxing** approach.
 - Minimise information loses.
 - Bring your invaluable experience.
- **Support the SEMIC community** to release an improved GeoDCAT-AP 3 specification and XSLT transformation

ISO & GeoDCAT-AP Pilot

Specific Objectives: 1. Specification



Evaluate and test the **GeoDCAT-AP 3.0.0 specification**:

- **Aspects to be analysed:**
 - Formalities and understanding of the document.
 - Scope (ISO 19115:2003 metadata elements covered).
 - Technical implementation and feasibility of the mappings.
 - Justified alternatives (if any).
- **Available at:**
 - **GeoDCAT-AP vocabulary**, the 930 namespace:
<https://semiceu.github.io/GeoDCAT-AP/930/releases/3.0.0/>
 - **Specification:**
<https://semiceu.github.io/GeoDCAT-AP/releases/3.0.0/>

ISO & GeoDCAT-AP Pilot

Specific Objectives: 1. Specification



GeoDCAT-AP - Specification overview

- **GeoDCAT-AP vocabulary, the 930 namespace** – Vocabulary used. Supporting terms.
- **GeoDCAT Application Profile 3.0.0** - Specification itself.

0. Abstract

1. Introduction

2. Status

3. License

4. Conformance (Conformance Statements)

5. Terminology (and Prefixes used)

6. Overview (Application profile diagram)

7. Main Entities

8. Supportive Entities

9. Datatypes

10. Controlled Vocabularies (Requirements and Usage)

11. Agent Roles

12. Accessibility and Multilingual Aspects

13. High Value Datasets (Additional Requirements for HVDs: [DCAT-AP HVDs](#))

14. Legal information (Privacy and security)

15. Conformance Test Results

16. Validation of GeoDCAT-AP

A. INSPIRE and ISO 19115 Mappings

Objectives, Motivation and use cases, Supported tooling

Methodology and summary of results

RDF syntax bindings for INSPIRE and ISO 19115 metadata elements

Overview of metadata elements covered by GeoDCAT-AP

Detailed usage notes and examples

Comparison between INSPIRE and ISO 19115-1:2014

B. Quick Reference of Classes and Properties

C. Acknowledgments

D. References (Normative and Informative references)

GeoDCAT-AP
Data model

ISO & GeoDCAT-AP Pilot

Specific Objectives: 1. Specification



Structure and participants:



- Structured feedback:

Motivation	Section	Description	Change proposal	Justification	Additional documents
Motivation of the issue (re-use the harmonised entries from 'Aspects to be analysed').	Section of the specification to which the issue applies.	Clear description of the issue.	Proposed change (if any).	Reasoning justifying the change.	Illustrative screenshots, diagrams, graphics, structured proposals, etc. (if any).

- Report of issues: <https://github.com/SEMICeu/GeoDCAT-AP/issues>
 - **When reporting your issues, clearly mention that it comes from the 3.0.0 Pilot.**
 - Thus, repository maintainers will be able to tag it with the '3.0.0 Pilot' tag.
- Main proposed participants:
 - Member States / Joint Research Centre.

ISO & GeoDCAT-AP Pilot

Specific Objectives: 2. Transformation



Evaluate and test the **XSLT Transformation** - Geospatial / INSPIRE metadata TO (Geo)DCAT metadata.

- **Aspects to be analysed:**
 - Transformation logic and quality
 - Potential information losses.
 - Compliance of the transformed (GeoDCAT) metadata to INSPIRE and High-Value Datasets IRs.
 - Potential mapping and implementation issues.
 - Input / Output validation & Error handling (e.g. outputs consistency, correctness & completeness)
 - Usability & Scalability (e.g. easiness of use, transformation of high volumes of files)
 - Compatibility / Reusability / Integration with existing systems (e.g. compatibility with GeoDCAT-AP 2 / DCAT-AP 2, compatibility with different XML parsers, XSLT engines, & software platforms)
- **Available at:**
 - **XSLT transformation file:** 'iso-19139-to-dcat-ap.xsl'
<https://github.com/SEMIceu/iso-19139-to-dcat-ap/tree/main>

ISO & GeoDCAT-AP Pilot

Specific Objectives: 2. Transformation



Structure and participants:



- Structured feedback:

Motivation	Tools	Description	Change proposal	Justification	Additional documents
Motivation of the issue (re-use the harmonised entries from 'Aspects to be analysed').	Enumeration of the tools used when testing the XSLT transformation (name / version / OS platform)	Clear description of the issue.	Proposed change (if any).	Reasoning justifying the change.	Input & output files, Illustrative screenshots, graphics, structured proposals, etc. (if any).

- Report of issues: <https://github.com/SEMICeu/iso-19139-to-dcat-ap/issues>
 - **When reporting your issues, clearly mention that it comes from the 3.0.0 Pilot.**
 - Thus, repository maintainers will be able to tag it with the '3.0.0 Pilot' tag.
- Main proposed participants:
 - Member States / Publications Office of the European Union / Joint Research Centre.

ISO & GeoDCAT-AP Pilot Outputs



- **Feedback on the tested specification and transformation**

[All pilot participants]

- General feedback and evaluation.
- Detailed set of issues, reported in the GeoDCAT-AP ([URL](#)) and XSLT transformation ([URL](#)) repositories.

- **Pilot final report**

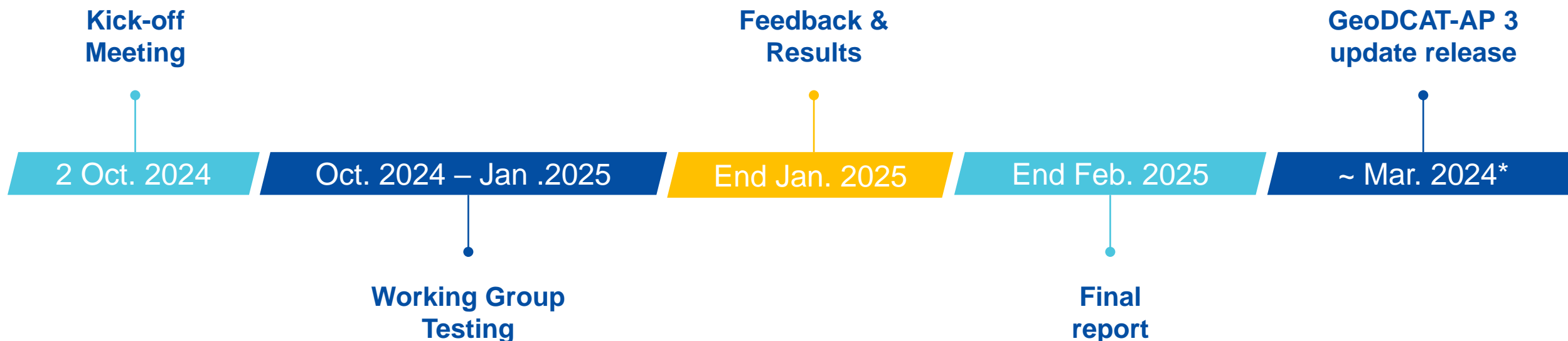
[EC-JRC & Volunteered pilot participants]

- Summary of the process and results achieved in the pilot.
- Evaluation of the extent to which the transformation helps data providers in being compliant to the applicable legal framework.

ISO & GeoDCAT-AP Pilot Timeline



- Metadata implementation pilot



- This (more relaxed) timeline will be hopefully agreed in the 2nd Pilot meeting proposed by end-October / beginning-November 2024.

* GeoDCAT-AP 3 update release timeline to be agreed with the SEMIC Group (DG DIGIT)

Discussion

ISO & GeoDCAT-AP Pilot Discussion



Main discussion items:

- Pilot plan refinements.
 - Scope & Objectives.
 - Aspects to be analysed.
 - Structured feedback / Tags & Templates in GitHub.
 - Contribution to objectives (each participant) vs. Effort invested.
- Timeline agreement.
- Final proposal & Pilot work start (target date).
- **Next meeting** (target date) – A meeting **by end October / beginning November** is suggested to share experiences, update and guide the pilot work (if needed).
- A framadata will be sent to participants.

AoB

Thank you!



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