

Trusted Data Transactions

The basis for Common European Data Spaces

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JTC 25/WG 2: Data Spaces

Standardisation Request approval pending

ITEM	TITLE	Basis	TARGET
1	TDT Part 1: Terminology, concepts and mechanisms	CWA	June 2026
2	TDT Part 2: Trustworthiness requirements	CWA	November 2026
3	TDT Part 3: Interoperability requirements	Various	May 2027
7	Technical specification(s) on a maturity model of Common European Data Spaces	DSSC pilots	September 2026

Directives > Acts
Standards

Trusted Data Transactions

Part 3: Interoperability

Purpose (from Work Item Proposal)

A European standard on dataspace interoperability is essential to ensure that data can be seamlessly exchanged across different systems and platforms. Without a common standard, the risk of fragmentation increases, leading to inefficiencies and missed opportunities for collaboration. A unified approach to interoperability will facilitate the integration of data from diverse sources, enabling more comprehensive and accurate analyses. This, in turn, will support better decision-making and drive economic growth by maximizing the value derived from data.

This project will address the **essential requirements for participants of dataspace**, as outlined in the Data Act Article 33, to ensure the interoperability of data, data sharing mechanisms, and services within common European data spaces. Participants in these data spaces must comply with several key requirements to facilitate seamless data exchange. These include **providing detailed descriptions of dataset content, use restrictions, licenses, data collection methodologies, and data quality in a machine-readable format.** Additionally, **data structures, formats, vocabularies, classification schemes, and technical means for accessing data, such as APIs, must be clearly described** to enable automatic data access and transmission.

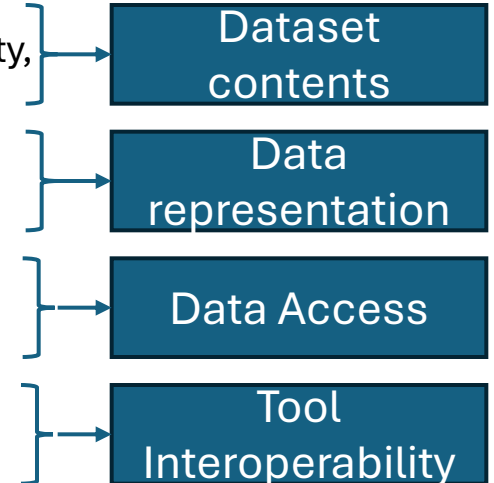
(...)

Note: The proposed scope **excludes the specification of APIs, protocols, file formats etc. because the Draft Standardization Request explicitly asks for technology neutral, performance-based and objectively verifiable requirements (Annex II, 1).** Hence, **only requirements, criteria to evaluate their fulfilment, and implementation guidance** will be provided. Details on available technologies is allowed in examples, and will be provided in informative annexes.

Scope (proposed)

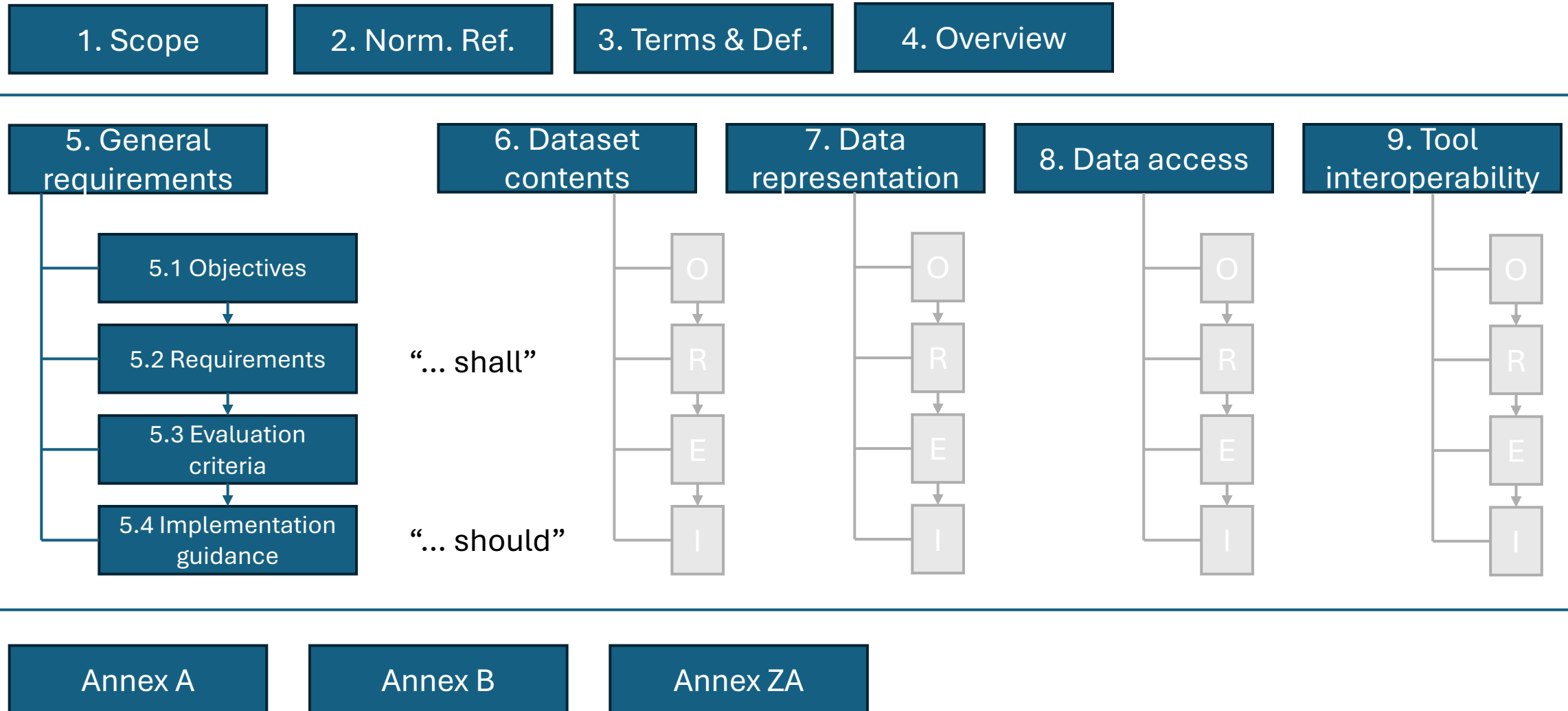
This document specifies requirements and guidance for the interoperability of data, data sharing mechanisms, and services within dataspace. It covers requirements, criteria and implementation guidance on:

1. dataset content, use restrictions, licences, data collection methodology, data quality and uncertainty, and on machine-readable formats to find, access and use of data;
2. data structures, data formats, vocabularies, classification schemes, taxonomies and code lists, and how to describe these elements a publicly available and consistent manner;
3. technical means to access the data, such as application programming interfaces, and their terms of use and quality of service to enable automatic access and transmission of data between parties;
4. where applicable, the means to enable the interoperability of tools for automating the execution of data sharing agreements.



This document is applicable to all organizations participating in dataspace, regardless of their size or type.

Overall document structure (DIN-proposal)



Observability & Auditability

- Not specifically mentioned in Data Act - article 33.
- Relevant in the context of clause x.3 (evaluation criteria):
how can you verify that the requirements will be, is and was met?
- Proposal to take this into account in each section x.3.

Overall timeline

- 32 weeks from project start
- Late 2024 timeline (below) still refers to TS – *to be updated*

Month	Nov 2024	Dec 2024	Jan 2025	Feb 2025	Mar 2025	Apr 2025	May 2025	Jun 2025	Jul 2025	Aug 2025	Sep 2025	Oct 2025	Nov 2025	Dec 2025	Jan 2026	Feb 2026	Mar 2026	Apr 2026	May 2026	Jun 2026	Jul 2026	Aug 2026	Sep 2026
Month	-3	-2	-1	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
Meetings				2/Milan			3/NL				3/??												
Part 3: Interoperability Requirements																							
TS	Deliver	★ Draft NWIP												★ TS				★ Final TS					
TS	Discuss		NWI Discussion																				
TS	Ballot	★ CIB for NWIP													Ballot								
TS	Edit			Redrafting							Editing and Translation												
EN	Deliver						★ NWIP																★ Final EN
EN	Ballot						★ PWI Activation (1-2 wk)							TBD									
EN	Edit																						

We should start drafting!

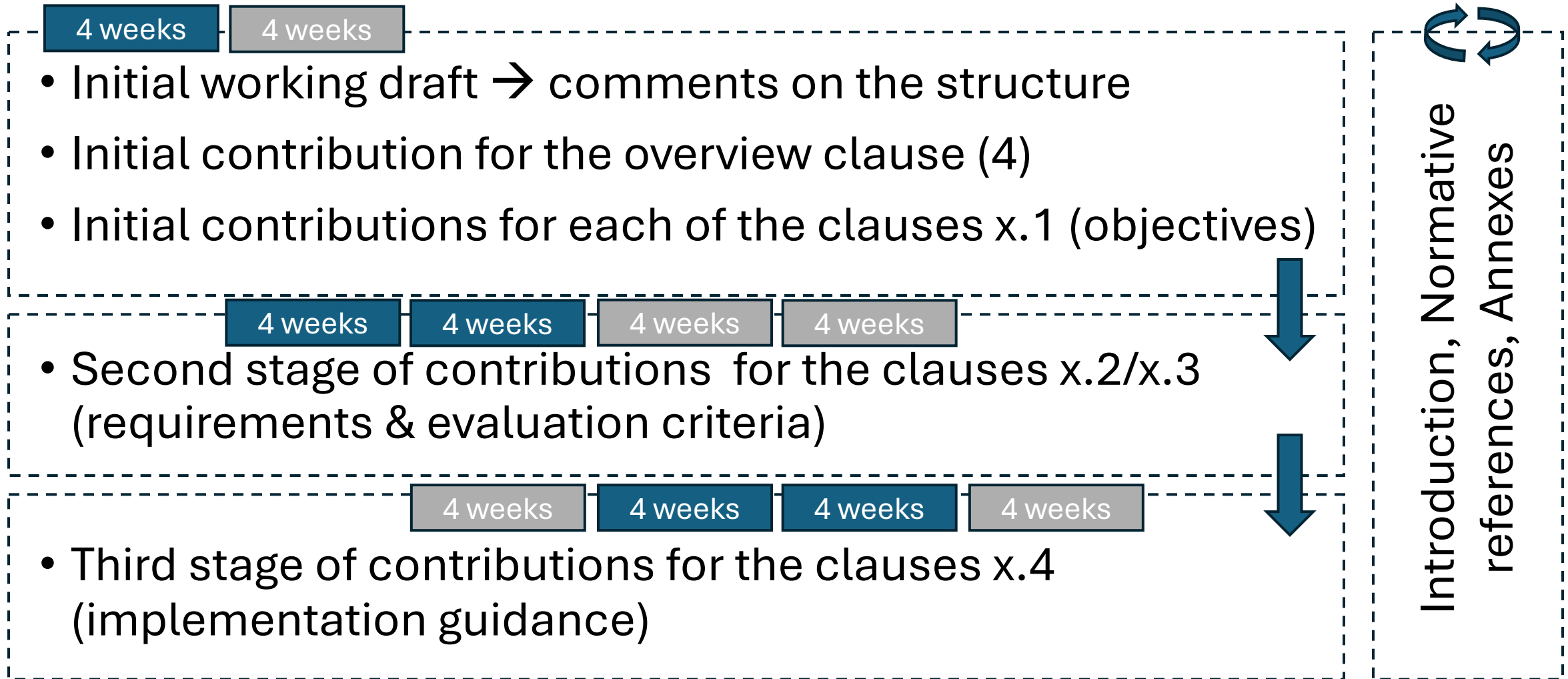
If we are to provide a version in the autumn ...

Most of us will be out-of-the-office over here ...

Way of working – practically

- Bi-weekly WG2 meeting
 - TDT part 3 to be put on one of them, having effectively a monthly meeting to formally discuss contributions.
 - Results in a monthly ‘rythm’ to formally align on topics
- But ... additional sessions where applicable to align with individual (groups) of contributors!

Way of working - content



Way of working – formally

(date): Provide your contribution

(date): Editor includes contribution in the working draft

(date): Provide your comments

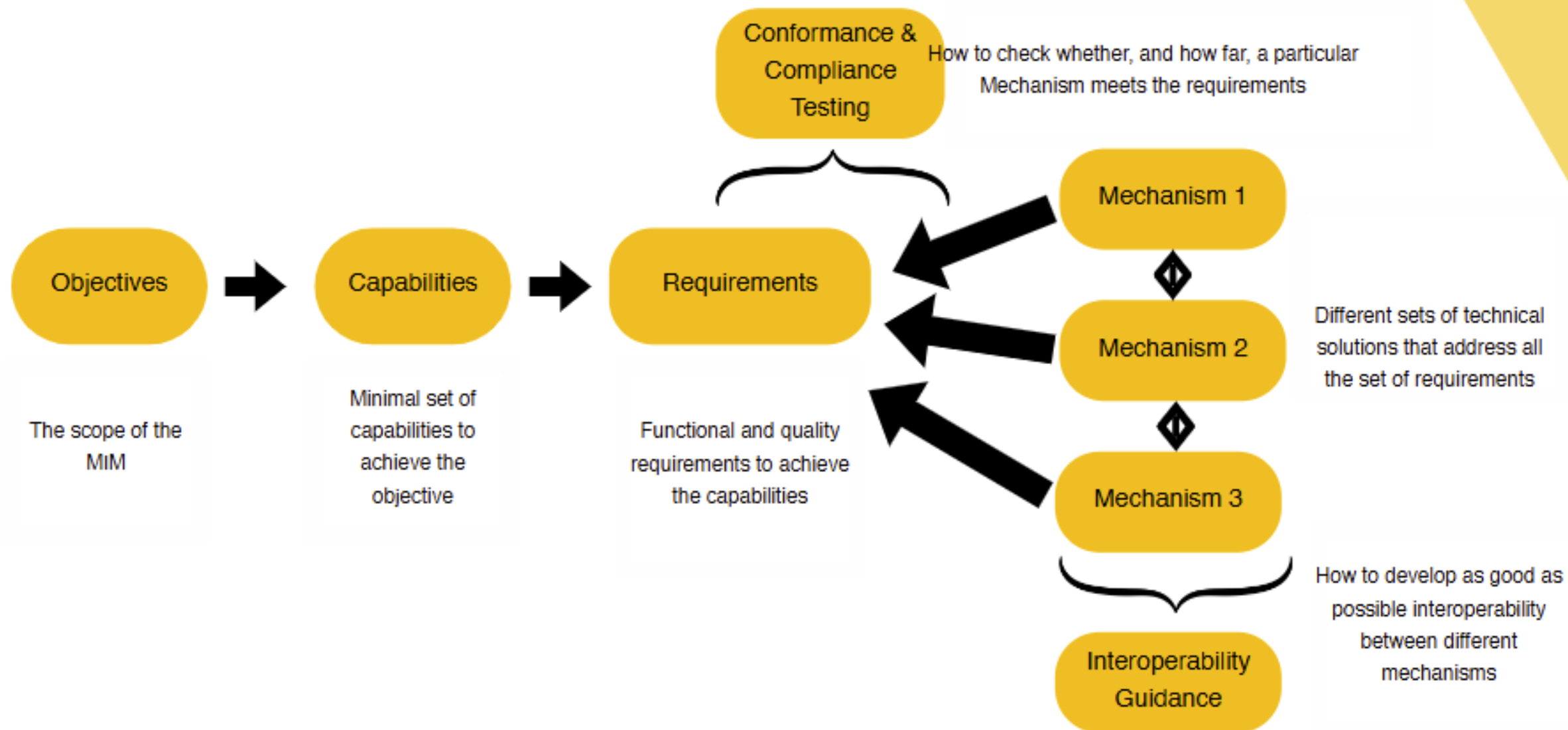
(date): Editor provides a disposition of comments

(date): Provide your reconsideration requests

(date): Editor includes reconsideration requests in the disposition of comments

(date): WG2 meeting to discuss open issues

Y.4505: Minimal interoperability mechanisms for smart and sustainable cities and communities



Main challenges for the energy domain

Alignment between legacy standards and communities

- IT: Cloud, e.g. ISO/IEC 20151, 19941
- OT: Everything IoT, SCADA
- Energy: IEA etc.

Regulatory and market diversity in Europe

Time