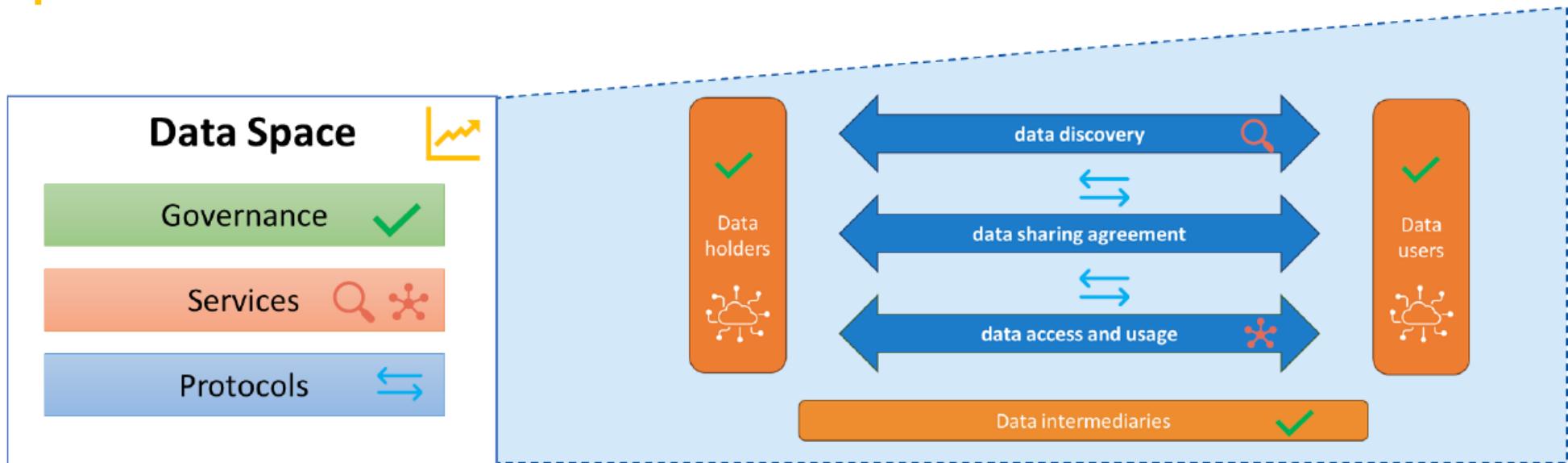


Standardization on Maturity Assessment of Data Spaces

Clara Pezuela

Expert in JTC25 – Project Lead for TS on Maturity Model

Standardisation request European Trusted Data Framework



Trusted Data Transaction
standard



Data catalogue
implementation framework



Data governance standard
for data space participants



Semantic assets
implementation framework



Maturity model for
Common European Data Spaces

EU Trusted Data Framework standardization request (2025-07-01)

EU Data Act | Article 33, Essential requirements regarding interoperability of data, of data sharing mechanisms and services, as well as of common European data spaces

*Participants in data spaces that offer data or data services to other participants shall comply with the following essential requirements to facilitate the interoperability of data, of data sharing mechanisms and services, as well as of common European data spaces which are purpose- or sector-specific or cross-sectoral **interoperable frameworks for common standards and practices** to share or jointly process data for, inter alia, the development of new products and services, scientific research or civil society initiatives(...)*

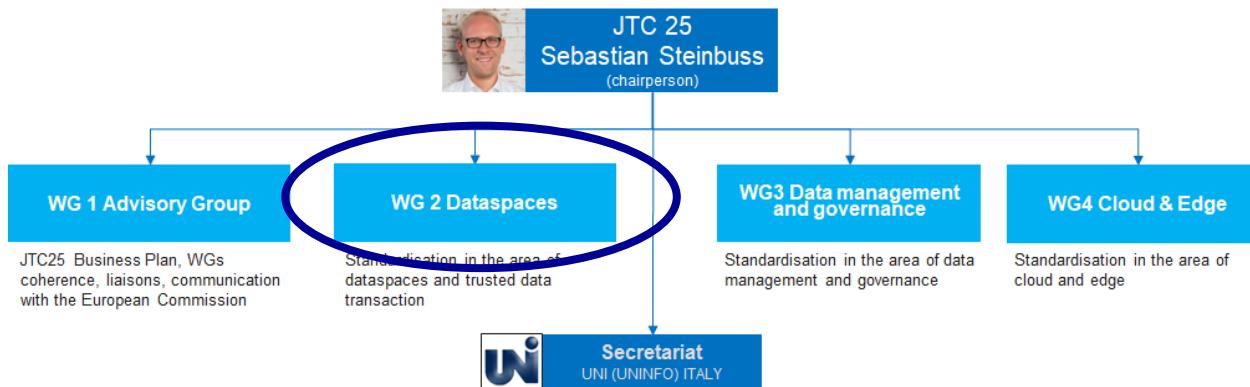
*The Commission shall, pursuant to Article 10 of Regulation (EU) No 1025/2012, **request one or more European standardisation organisations to draft harmonised standards** that satisfy the essential requirements laid down in paragraph 1 of this Article*

Ref.	Deliverable Title	Deadline	
1	Harmonised standards on Trusted Data Transactions — Part 1: Terminology, concepts and mechanisms	2026-06-01	 cen CENELEC
2	Harmonised standards on Trusted Data Transactions — Part 2: Trustworthiness requirements	2026-11-01	 cen CENELEC
3	Harmonised standards on Trusted Data Transactions — Part 3: Interoperability requirements	2027-05-01	 cen CENELEC
4	Technical specification(s) on a data catalogue implementation framework	2026-03-01	 ETSI
5	Technical specification(s) on an implementation framework for semantic assets	2026-09-01	 ETSI
6	European standard on a quality framework for internal data governance	2027-03-01	 cen CENELEC
7	Technical specification(s) on a maturity model for Common European Data Spaces	2026-09-01	 cen CENELEC

CEN/CENELEC JTC 25



- Launched on the 20th September 2024 in Brussels
- Scope on data management, dataspaces, cloud and edge
- More than 100 experts across EU
- Growing liaisons with projects and associations



Measuring the maturity of a data space is not a trivial task and required certain guidance



Which is the context of the Technical Specification (TS)?

- Data Spaces are key enablers for data sharing according to EU regulation (Data Act, Data Governance Act)
- European Trusted Data Framework standardization request to support the Article 33 of Data Act
- Includes a deliverable on Technical Specification(s) on a maturity model for Common European Data Spaces
- The Data Spaces Support Centre (DSSC) has produced a Maturity Model which has taken as baseline for the TS



Work in progress...



Which is the scope of the TS?

- Define a maturity model concept, structure, methodology and measurable criteria
- And related requirements and guidance for the assessment of data space maturity

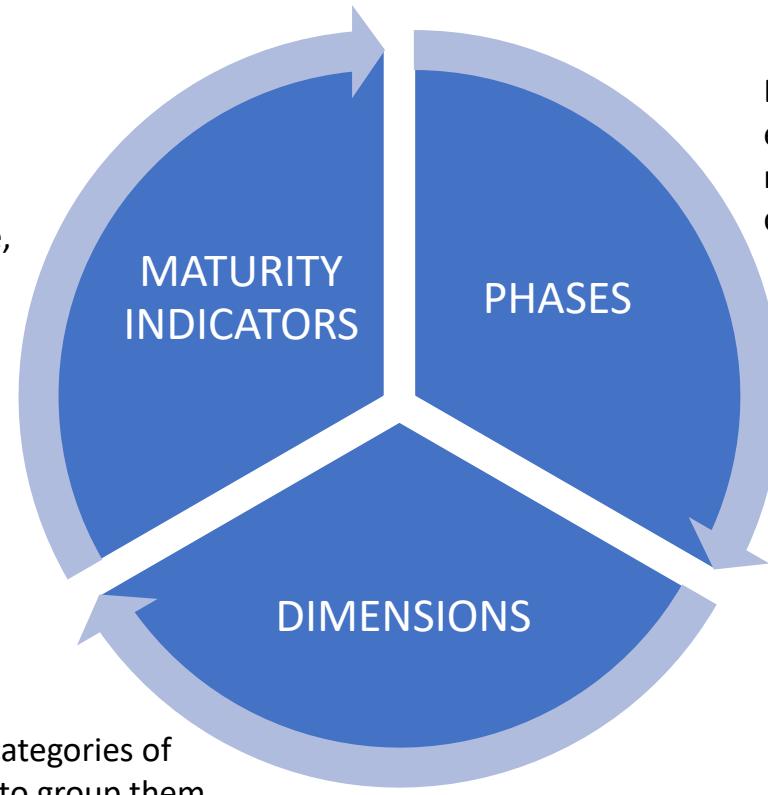


Which are the intended use of the TS?

- As a Data Space (or any other data sharing initiative), you can:
 - self-assess the evolution of your data space at any time
 - compare your data space with the others (if self-assessments are public)
 - identify your data space strengths and areas for improvement to evolve
- As candidate to join a Data Space, you can decide your engagement based on the published self-assessment
- As Policy Maker, you can get an overview of all data spaces maturity and take actions based on analysis
- As a Certification Provider, you can use the model for creating your certification offering



Elements in the maturity model



Reporting structure with additional information



Template for self-assessment



Data Space Maturity Indicators (DSMI)

Indicator description

- Which aspect of the data space do we want to assess?

Metrics (driven by capabilities)

- What do we want to measure? Which are the included capabilities? How do we ask it?

Measurable values

- Which are the possible values to measure?

Scoring per phase

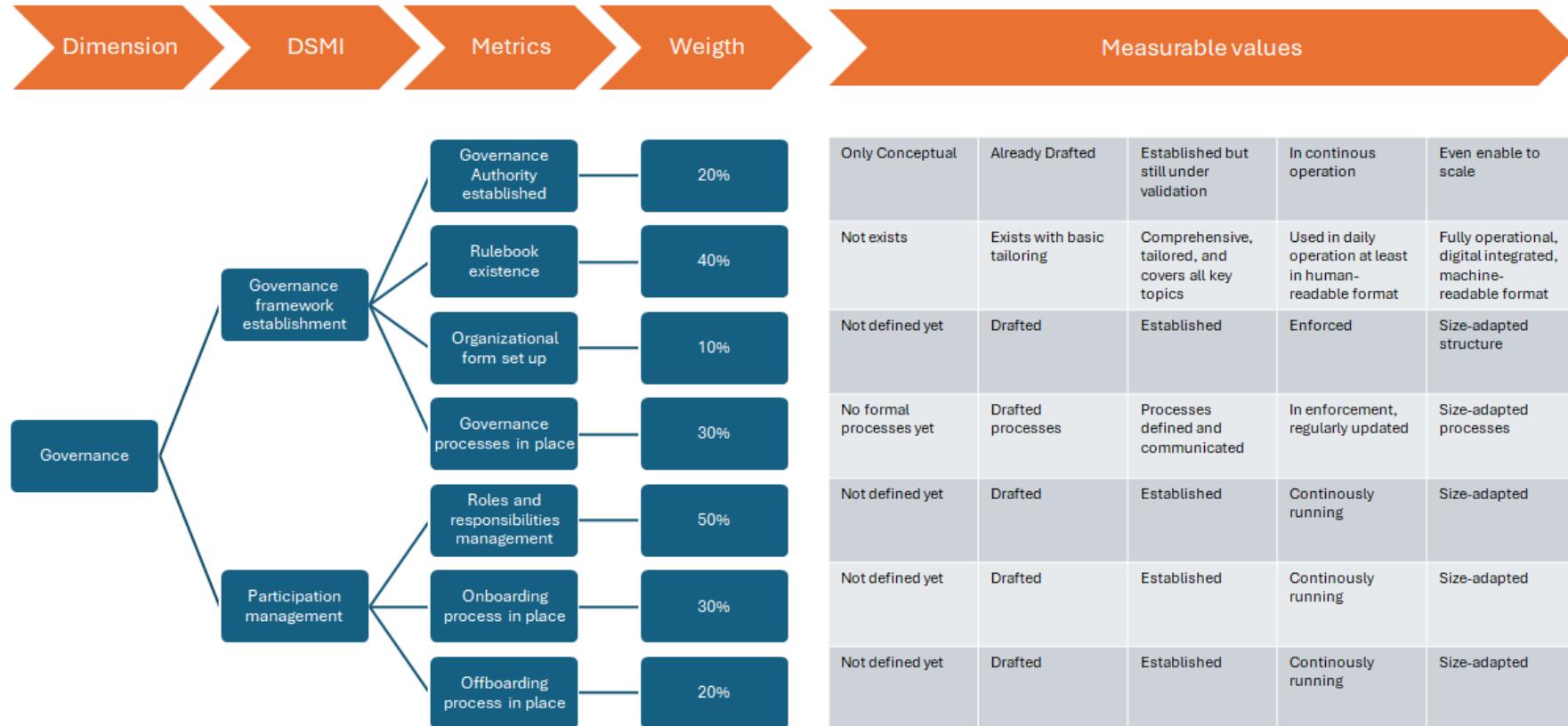
- How do we want to measure it?

Weight of relevance

- How relevant is every maturity indicator within the overall dimension? (the total must be 100%)



Example of Governance maturity assessment



Template for self-assessment (example)

Maturity Assessment Self-Assessment template

* Indica que la pregunta es obligatoria

Governance dimension

What is the Governance Authority (GA) level of establishment in your data space? *

The GA is the body of a particular data space, responsible for developing, maintaining, operating and enforcing the governance framework. The expected capabilities are: Governance framework creation; governance model definition; ensure transparent decision making process; internal regulations in place.

Only conceptual

Already drafted

Established but still under validation

In continuous operation

Even enable to scale

Sin título

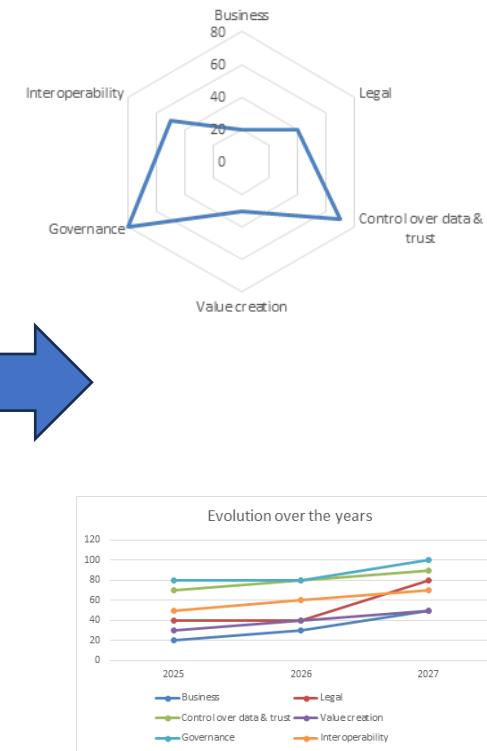
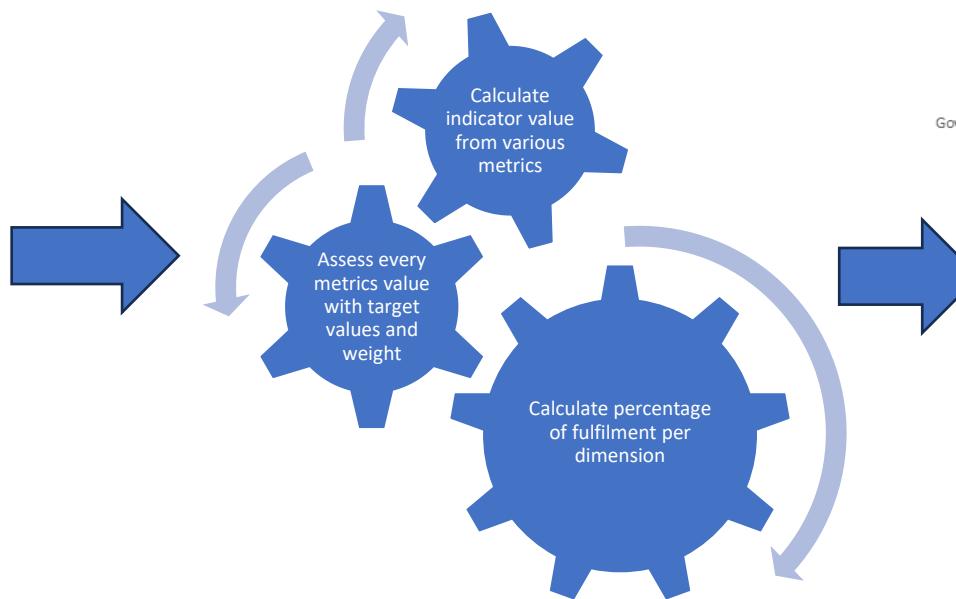
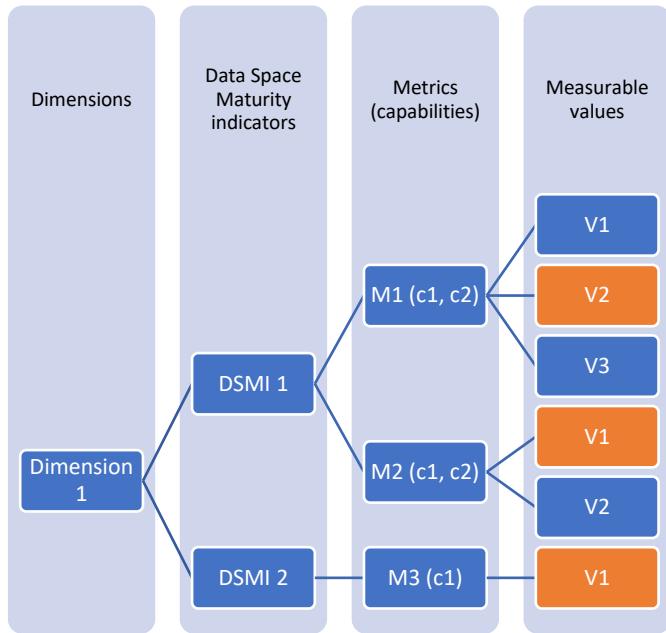
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Maturity assessment method (in progress)



Questionnaire



Analysis

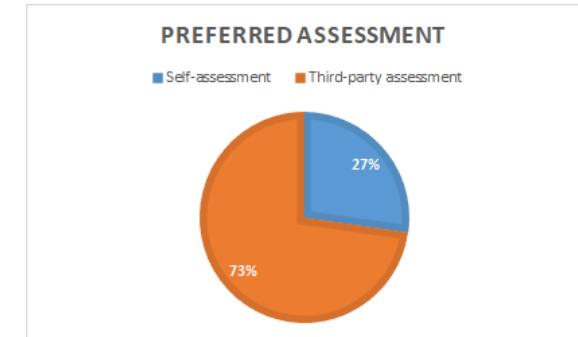
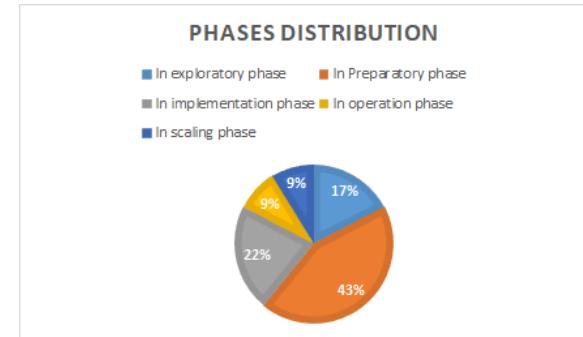
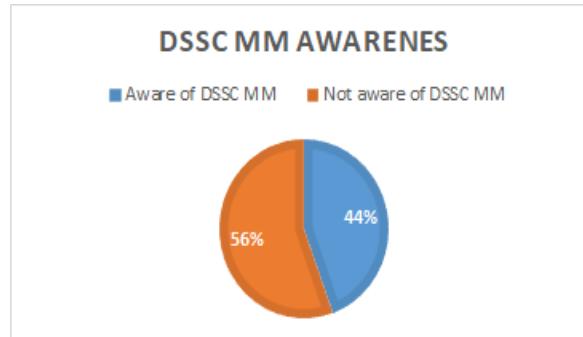
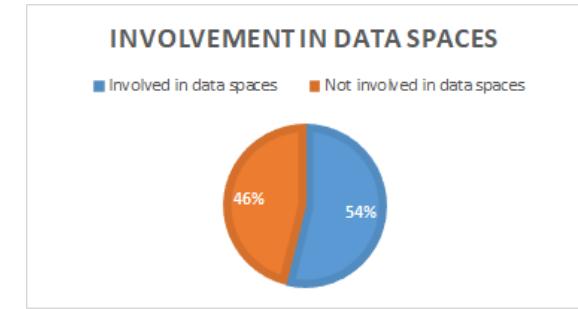
Visualization

No matter your phase,
matter your continuous evolution

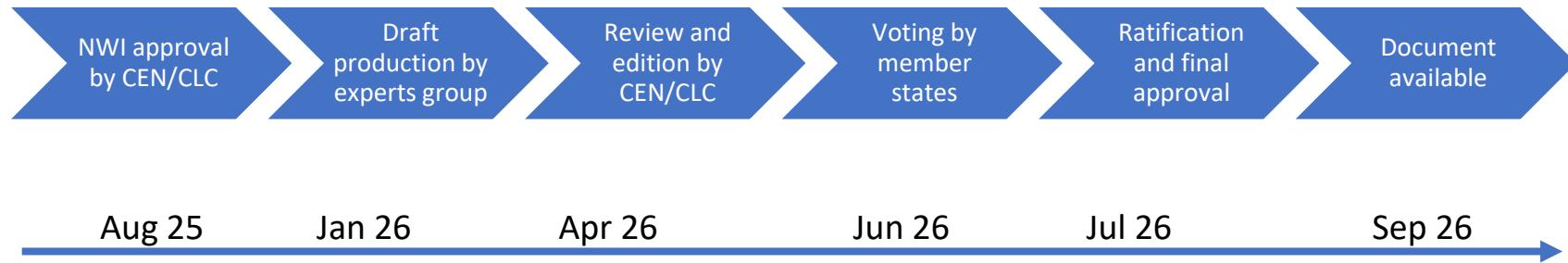


Workshops with community

- At EBDVF 2025 in Copenhagen and GAIA-X Summit in Porto
- 50 participants in total
- The dimension most relevant for measuring the maturity is Value Creation, followed by Governance
- Provided insights about what to measure: ROI, compliance, standards, use cases, transparency....



Timeline for TS production



STAY TUNED FOR NEXT STEPS!!



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