

Building a Sustainable EHDS: From Logical Model to Implementable Interoperability

Webinar

16 September 2026

contact@euridice.org
www.euridice.org

- Please keep your microphone **muted**.
- **Questions during the session?** Please use the chat box. We will address the questions in the Q&A.
- Note that this webinar will be **recorded** and made available on the EURIDICE website and IHE-Europe Youtube Channel.
- Slides can be requested at contact@euridice.org

Agenda

- **OPENING** (Jan Hulek, IHE-Europe)
- **FROM LOGICAL MODEL TO SUSTAINABLE INTEROPERABILITY** (Janos Vincze, IHE-Europe)
- **FROM CREATION TO LIFECYCLE MANAGEMENT** (Andreas Klingler, IHE-Europe)
- **EURIDICE: WHERE WE ARE TODAY** (Giorgio Cangioli, HL7 Europe)
- **MEMBER STATES ENGAGEMENT AND SPECIFICATIONS AS PUBLIC GOOD** (Lapo Bertini, IHE-Europe)
- **WRAP-UP AND Q&A** (Jan Hulek, IHE-Europe)

Disclaimer

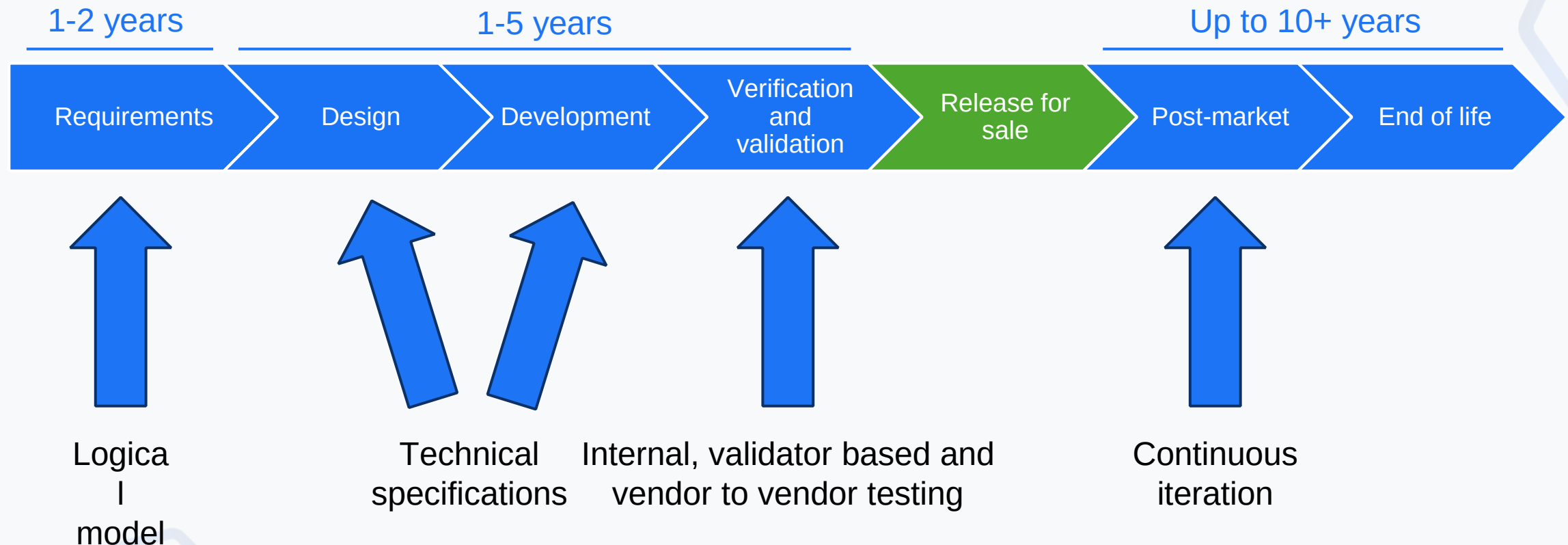
- What is presented are the views and results of IHE-Europe and HL7 Europe work done in collaboration with the Xt-EHR Joint Action and EC sponsored projects
- It is not a position of the EC and the Member States
- What will be mandated for the EHDS will be defined in the comitology process, supported by guidance documents from the EHDS Board

From Logical Model To Sustainable European Interoperability

Dr. Janos Vincze

From Logical Model To Sustainable European Interoperability

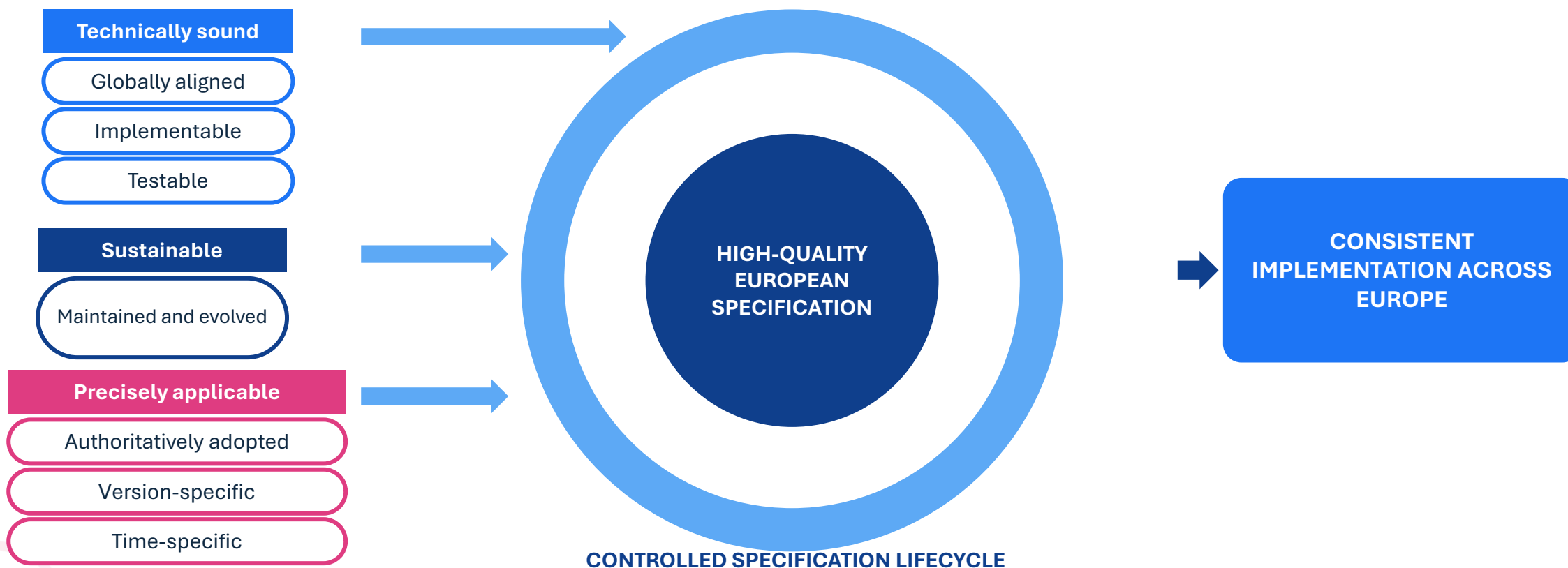
Lifecycle of a medical software / EHR system



From Creation To Lifecycle Management

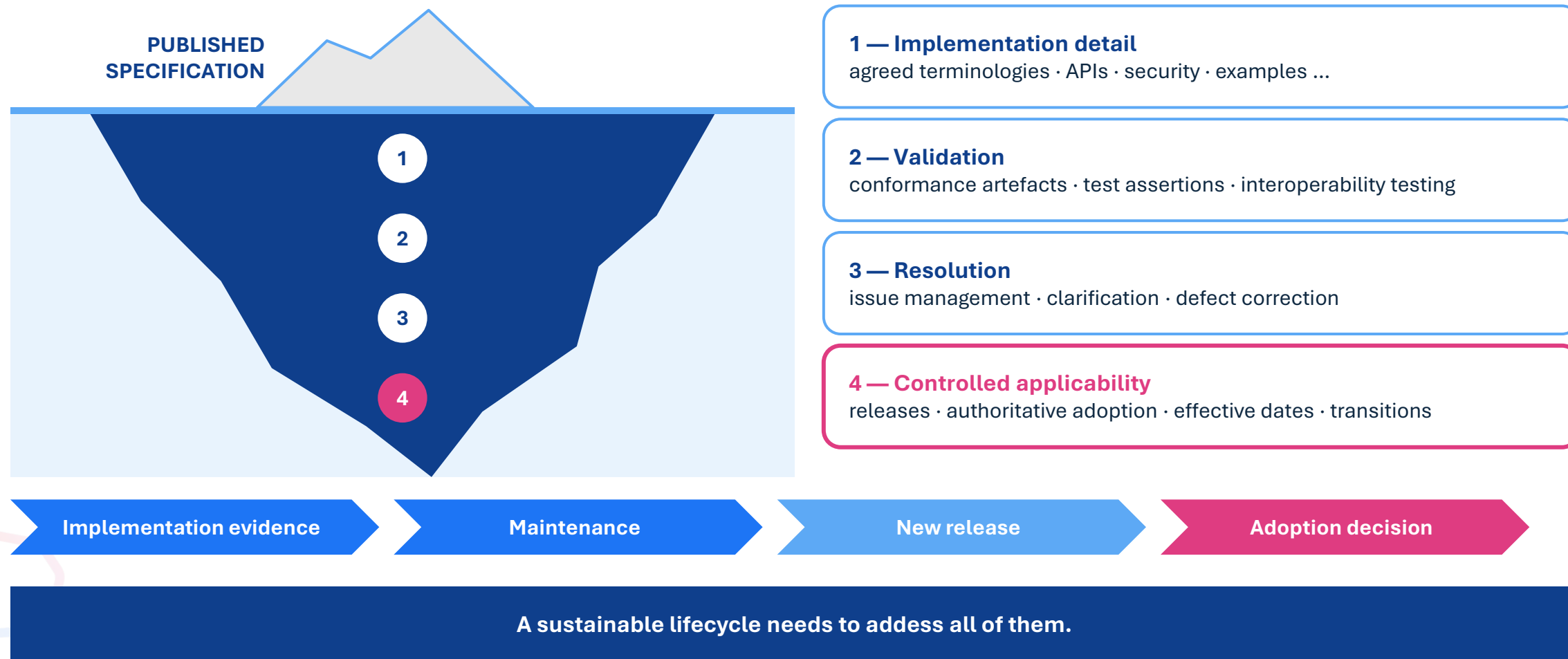
Dr. Andreas Klingler

Successful interoperability depends on quality across the full specification lifecycle

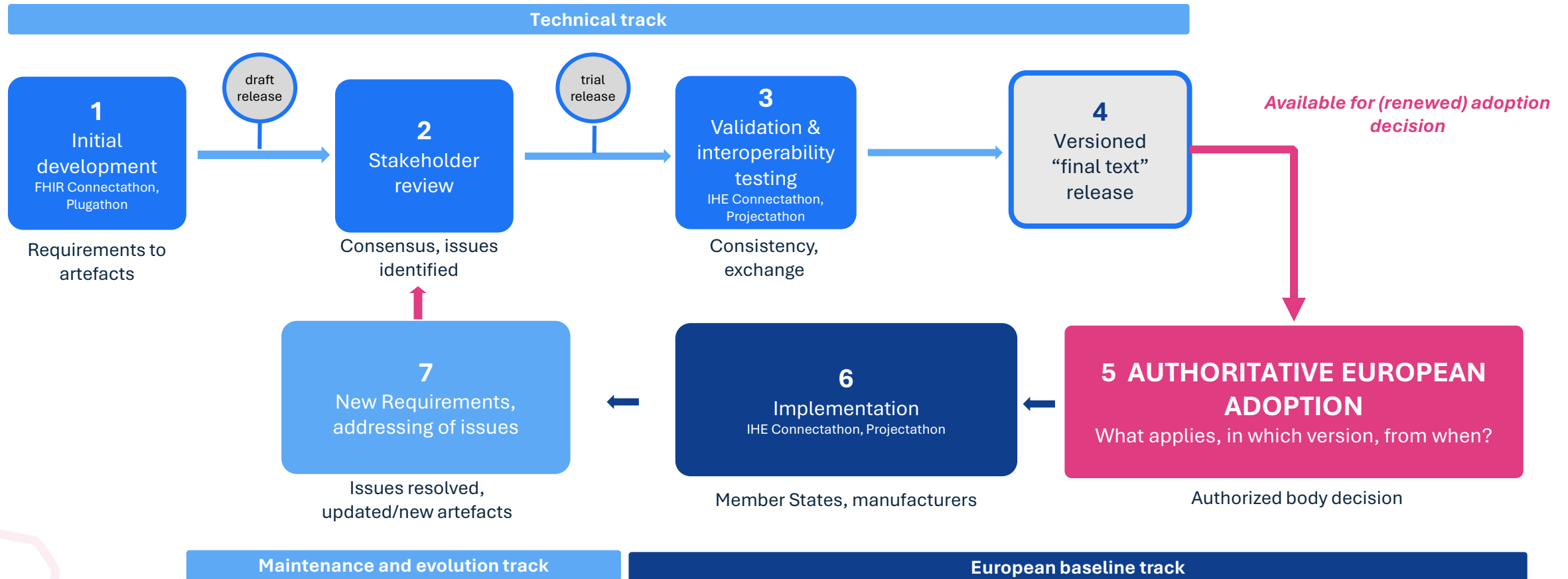


These qualities cannot be secured through publication alone. They require a controlled lifecycle.

Real implementation requires more than published data specifications

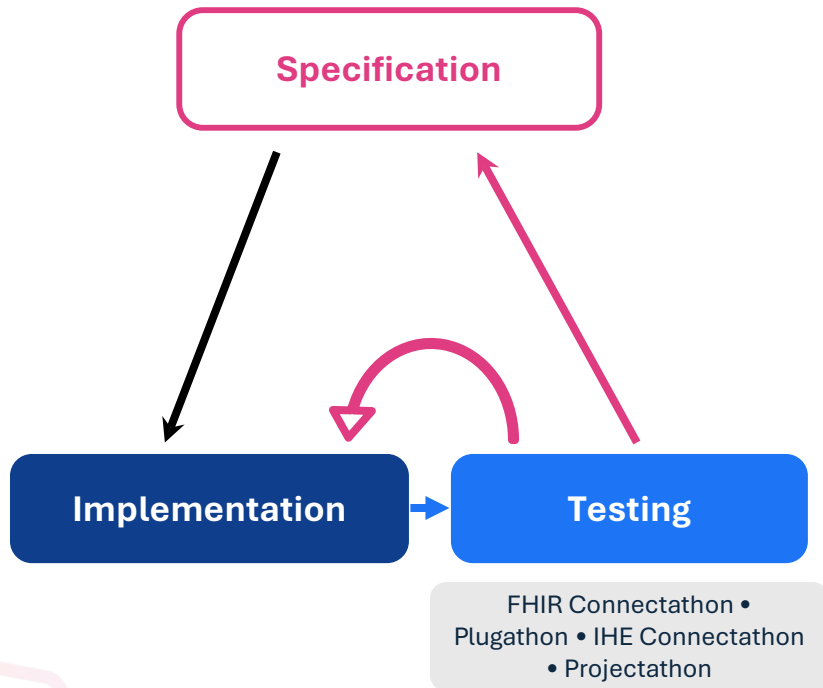


The lifecycle must distinguish technical release, authoritative adoption, and implementation



A specification release becomes a common European implementation target only through an identifiable adoption decision.

Testing validates both implementations and the specifications



1 — Specification validation

Are the artefacts internally consistent and technically valid?

2 — Conformance testing

Does an implementation satisfy the adopted requirements, using that baseline's test suite?

3 — Cross-system interoperability testing

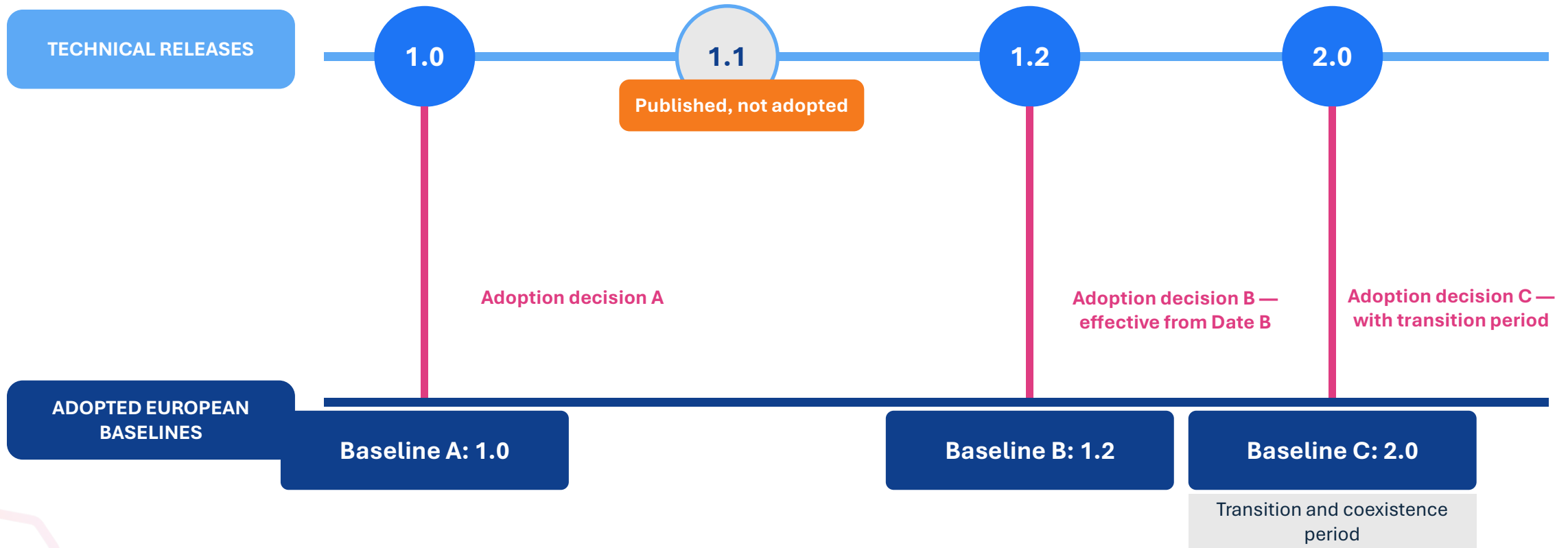
Can independently developed implementations exchange and process information consistently?

4 — Feedback to maintenance

Do findings reveal defects, ambiguities or inconsistent artefacts?

Testing produces evidence for maintenance. For the specifications as well as for the implementations.

A new technical release does not automatically become the European baseline



Versioning publishes technical change. Authoritative adoption determines when that change applies across Europe.

The adoption decision must identify the complete implementation package

DEFINED BY THE AUTHORITATIVE ADOPTION DECISION



APPLICABLE EUROPEAN BASELINE 1.0 — EFFECTIVE FROM [DATE]

Normative guidance

Data models and profiles

API and transaction
definitions

Terminology and value-set
versions

Security and authorisation
rules

Mandatory and optional
behaviours

Conformance resources

Examples and test data

Test assertions and validators

External dependencies and
versions

Release notes and limitations

Effective and transition dates

■ A reference to a specification family or its “latest version” is not a complete adoption decision.

Responsibilities, capabilities, and funding must be sustained

A CONTINUOUSLY MAINTAINED EUROPEAN BASELINE

DEFINED RESPONSIBILITIES

- Adoption and version decisions
- Technical production and maintenance
- Testing and conformance artefacts
- Issue resolution and change control

OPERATIONAL CAPABILITIES

- Technical and clinical expertise
- Specification and terminology maintenance
- Release engineering
- Implementation testing and standards alignment

SUSTAINABLE FUNDING

- Permanent core functions
- Test tools and infrastructure
- Stakeholder participation and feedback

Adopt



Implement



Test



Maintain



Release



Re-adopt

Continues beyond the initial publication.

Eight principles for a sustainable European lifecycle

1 — Authorized adoption function

2 — Precise and time-specific decisions

3 — One complete release package

4 — Implementation-driven maturation

**SUSTAINABLE
EUROPEAN
INTEROPERABILITY**

5 — Transparent maintenance

6 — Predictable version transitions

7 — Continuous international alignment

8 — Sustainable capacity and funding

Sustainable European interoperability requires both an authoritatively defined baseline and the responsibilities, capabilities and funding to keep it coherent, implementable, testable and current.

EURIDICE: Where Are We Today

Giorgio Cangioli

What is EURIDICE?

- **EURIDICE is a joint HL7 Europe and IHE-Europe initiative** that promotes convergence on European interoperability specifications.
- Focused on well-architected and implementable specifications **developed or formally endorsed by both organizations** proposed for use in establishing the EHDS.
- EURIDICE stands for European Interoperability Specifications for Digital Solutions in Healthcare

How it works

- **Foundation:** IHE Europe HL7 Europe Memorandum of Understanding signed on November 2024
- It establishes a **Joint Technical Committee** promoting the cooperation between the two communities and responsible for the joint publications.
 - Andreas Klingler for IHE Europe
 - Giorgio Cangioli for HL7 Europe
- **Agreed procedures** formally adopted by both organizations to allow joint activities and publications.

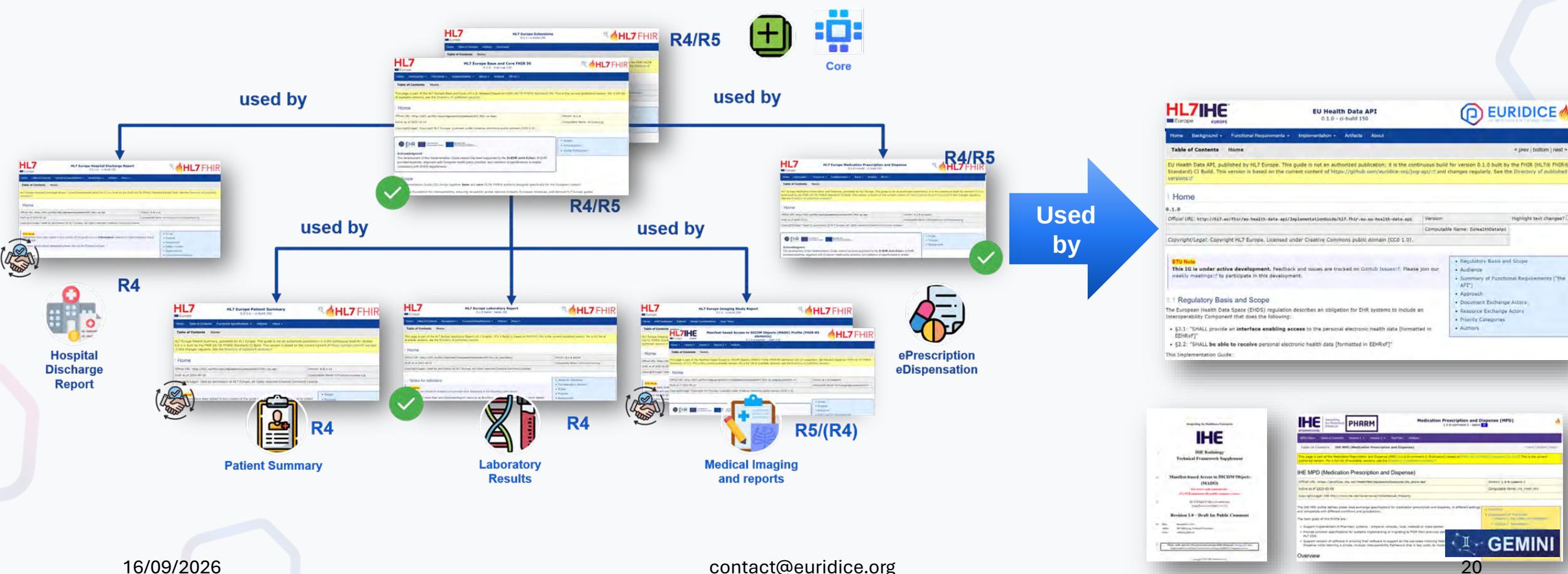
What this means

- Under the EURIDICE umbrella, specifications may either be:
 - **jointly developed** by both organizations
 - **formally endorsed** by EURIDICE as the recommended reference for a given EHDS use case when relevant specifications already exist, whether published by HL7 Europe, IHE-Europe, or another standards development organization.

The IG ecosystem for EHDS

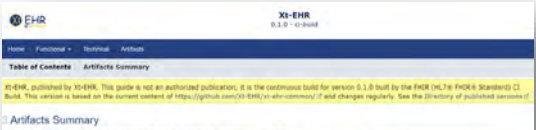
Content

Services



They realize the EHDS model(s)

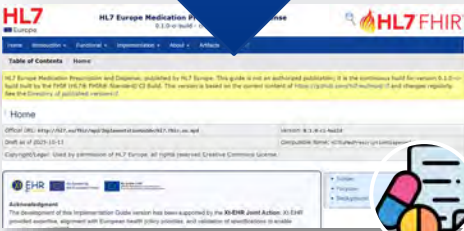
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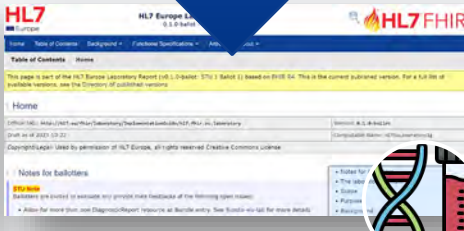
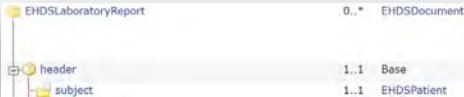
Common Models



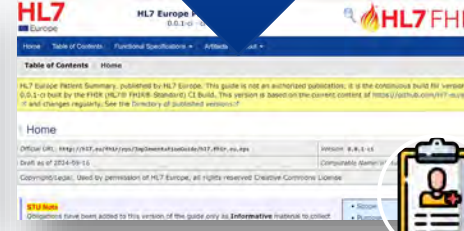
Core



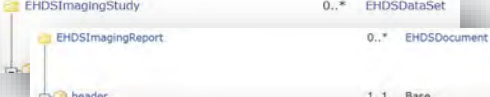
ePrescription
eDispensation



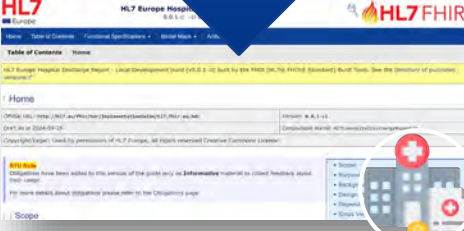
Laboratory
Results



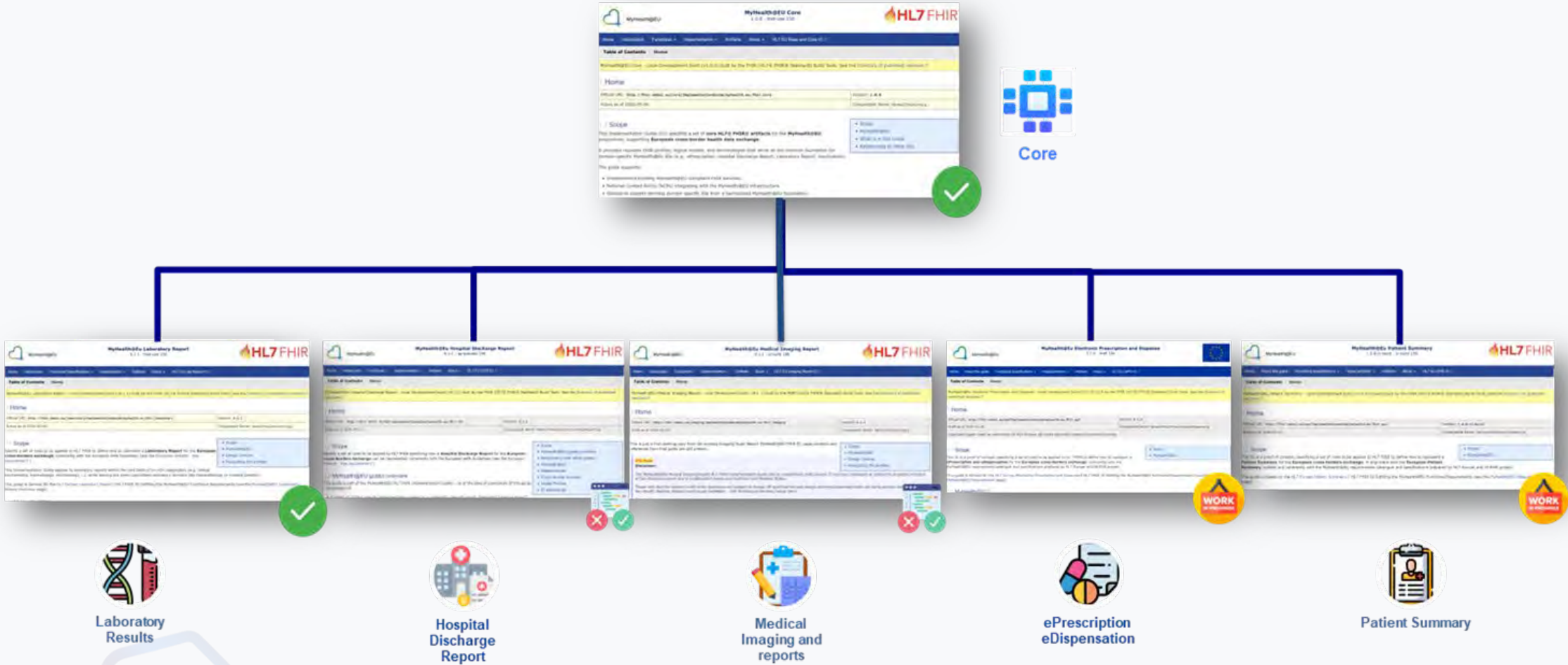
Patient Summary

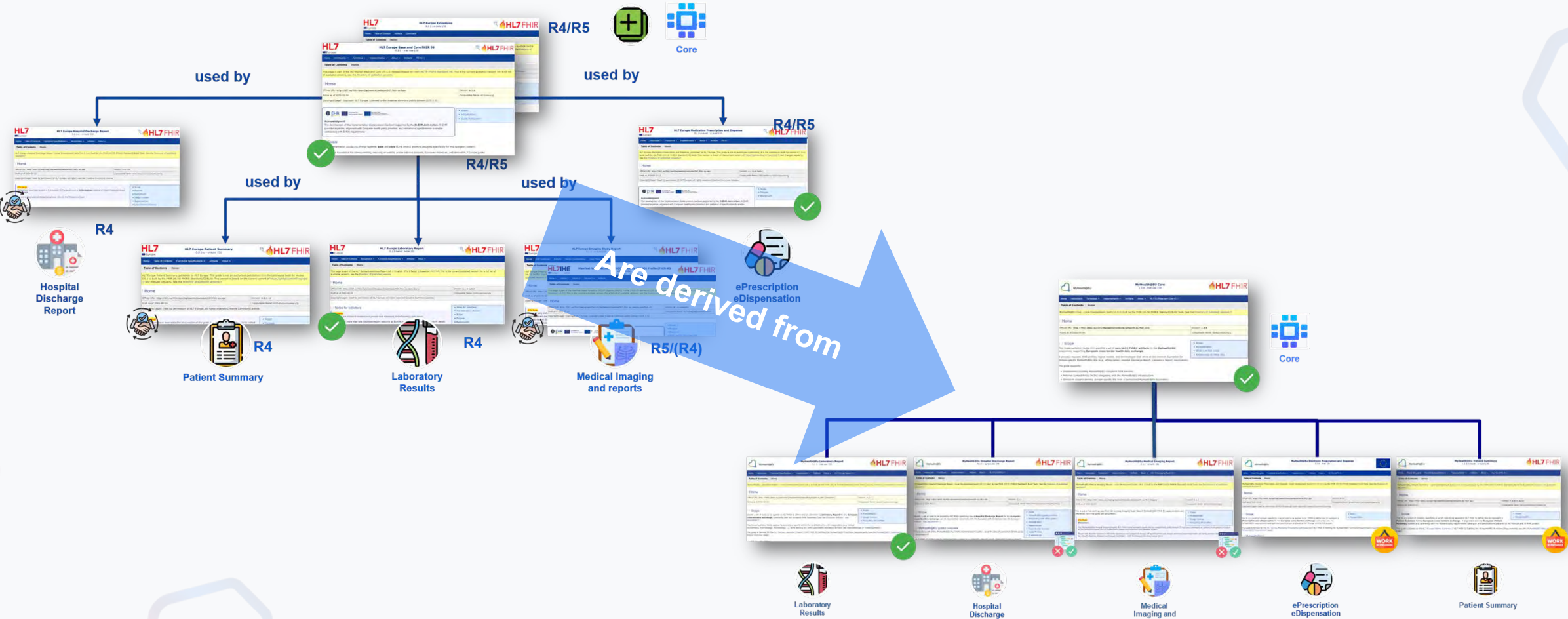


Medical Imaging
and reports



Hospital
Discharge
Report





Status	EHDS priority category Foundational — used by all EHDS categories	Maintained by HL7 Europe	Releases STU 2.0.1 ▶ STU 2.1.0 September 2026 February 2027
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Next Steps

- **New profiles** — CarePlan and further candidates for the Core IG
- **Feedback** — Collect feedback and work through open issues
- **EHDS Alignment** — Align with art. 15 models and obligations:
Incorporate EHDS expectations

Status	EHDS priority category Prescriptions & dispensations Annex I (2)(3)	Maintained by HL7 Europe	Releases	
			STU 1.0.0 May 2026	STU 1.1.0 February 2027

Next Steps

- **Consolidate Workflow Management** — work on EU MPD and IHE MPD FHIR IGs to consolidate workflow management
- **Feedback** — collect feedback and work through open issues
- **EHDS Alignment** — Align with art. 15 models and obligations: Incorporate EHDS expectations
- **MyHealth@EU Alignment** — Incorporate cross-border specific transactional requirements

Status

EHDS priority category
Patient summaries
Annex I (1)

Maintained by
HL7 Europe

Releases

STU 1.0.0

in progress
October 2026

STU 1.1.0

February 2027

Next Steps

- **Reconciliation** — moving from the current draft towards the first STU
- **EHDS Alignment** — Align with art. 15 models and obligations: Incorporate EHDS expectations
- **National implementations** — what implementers and national programs are building on the Patient Summary
- **IPS** — continuous alignment and cooperation with IPS

Status

EHDS priority category
Discharge reports
Annex I (6)

Maintained by
HL7 Europe

Releases

STU 1.0.0

in progress
September
2026

STU 1.1.0

February 2027

Next Steps

- **Reconciliation** — moving from the current draft towards the first STU
- **Feedback** — collect feedback and work through open issues
- **EHDS Alignment** — Align with art. 15 models and obligations: Incorporate EHDS expectations
- **Extend the Scope** — new EU discharge report FHIR IG

Status

EHDS priority category
Laboratory results
Annex I (5)

Maintained by
HL7 Europe

Releases

STU 2.0.0

May 2026



STU 2.1.0

February 2027

Next Steps

- **MyHealth@EU** — new minor release to support MyHealth@EU (September 2026)
- **Feedback** — collect feedback and work through open issues
- **EHDS Alignment** — Align with art. 15 models and obligations: Incorporate EHDS expectations
- **Medical Test Result** — cooperate with countries to determine the scope of medical test results, and national plans for its scope under the EHDS
- **Microbiology** — microbiology profiles

Status	EHDS priority category	Maintained by	Releases
	Medical images and image reports Annex I (4)	IHE Europe · HL7 Europe	STU 1.0.0 ▶ STU 1.1.0 in progress October 2026 February 2027

Next Steps

- **Reconciliation** — moving from the current draft towards the first STU
- **EHDS Alignment** — Align with art. 15 models and obligations: Incorporate EHDS expectations
- **Cooperation with IHE RAD** — Continuous alignment with IHE IDR profile

Status	EHDS priority category	Maintained by	Releases
	Medical images and image reports Annex I (4)	IHE International	TI 1.2 August 2026

Next Steps

- **Feedback** — Continue collection of feedback
- **IHE-MADO - EU Extensions** – HL7 Europe IHE Europe joint activity to profile IHE MADO for European EHDS expectations. Ballot foreseen for October.

Status

EHDS priority category
Cross-cutting infrastructure

Maintained by
IHE Europe ·
HL7 Europe

Releases
STU 1.0.0
in progress

► **STU 1.1.0**
February 2027

Next Steps

- **Reconciliation** — moving from the current draft towards the first STU
- **EHDS Alignment** — Align with Art. 15 & 36 models and requirements; incorporate EHDS expectations
- **MyHealth@EU Alignment** — cross-border in not in scope – however alignment is envisioned
- **EU Wallet** — how wallet-based access and data exchange fits the Health Data API
- **Digital Signature** — how sign / attest FHIR documents or data. (Separated specs)

Provisional roadmap

2026													2027					
MyHealth@ EU Wave 9													Alignment with Art. 15 Implementing Act Logical Model			Alignment according to implementing act publication		
													Public Consultation Art. 15 Implementing Act	Public Consultation Art. 13	Public Consultation Art. 36	EURIDICE Suite Release 1	Implementing Act Publication	EURIDICE Suite adapted Release
Specification	EHDS Priority Category	Status	June	July	August	September	October	November	December	January	February	March	-----> --> maintained by					
 API	EU Health Data API	Cross-cutting infrastructure STU 1.0.0 in progress	reconciliation					STU 1.0.0	Art. 13 & 36 alignment		review	reconciliation	STU 1.1.0	maintenance	IHE HL7			
	EU Base and Core	Foundational (all categories) STU 2.0.0 April 2026						STU 2.0.1	Art. 15 alignment		reconciliation	STU 2.1.0	maintenance	HL7				
 EU Patient summary	Patient summaries Annex I (1)	STU 1.0.0 in progress	Ballot STU 1		reconciliation		STU 1.0.0	Art. 15 alignment		review	reconciliation	STU 1.1.0	maintenance	HL7				
	EU medication prescription & dispense	Prescriptions & dispensations Annex I (2)(3) STU 1.0.0 May 2026						Art. 15 alignment		review	reconciliation	STU 1.1.0	maintenance	HL7				
 EU Imaging report	Medical images and image reports Annex I (4)	STU 1.0.0 in progress	Ballot STU1		reconciliation		STU 1.0.0	Art. 15 alignment		review	reconciliation	STU 1.1.0	maintenance	IHE HL7				
	Manifest-based access to DICOM objects (MADO)* & XC-WADO	In progress	IHE MADO		Trial implementation		IHE MADO-EU EXTENSION		Ballot 1.0.0		STU Publication		maintenance	IHE HL7				
 EU laboratory report	Laboratory results Annex I (5)	STU 2.0.0 May 2026						STU 2.0.1	Art. 15 alignment		review	reconciliation	STU 2.1.0	maintenance	HL7			
	EU (hospital) discharge report	Discharge reports Annex I (6) STU 0.1.0 In progress	EU hospital discharge report		reconciliation		STU 1.0.0	Art. 15 alignment		review	reconciliation	STU 1.1.0	maintenance	HL7				
			EU discharge report								STU 1.0.0							

Member States Engagement And Specifications As Public Good

Lapo Bertini

Member State engagement in SDO specification work

- **Participation helps bring national perspective into shared interoperability specifications**
- Member States can contribute specific use cases, implementation constraints and expert feedback to SDOs work
- Engagement during drafting and testing helps specifications reflect clinical workflows and national implementation realities.
- Working through established SDO processes offers access to international expertise, existing specifications, approach harmonization and shared testing methods.
- Sustained participation can help align national adaptations with a common European approach and reduce fragmented implementation.

A structured route to engagement

- Member States have already been and are engaging through HL7 Affiliates in Europe, contributing to EHDS work
- IHE PRISM for EHDS offers a way to connect European priorities with IHE specification development and testing
 - Brings member states experts, healthcare users, vendors and standards experts together around implementation needs
 - Leverages IHE methodology to develop or extend and produce structured specifications and test cases.
 - Comparable programmes exist within other SDOs
- IHE Plugathons and IHE Connectathons provide opportunities to test outputs and feed implementation experience back into development.

IP and licensing of SDO specifications

- Open licensing makes specifications available for broad adoption and reuse.
- SDO IP model should be understood as a practical public-good arrangement for interoperability
- SDO IP is commonly available under public open source licensing schemes such as Creative Commons Attribution.
 - This permits copying, redistribution and adaptation.
 - Creative Commons public licences irrevocable once granted
- European public authorities, healthcare users and providers, conformity-assessment initiatives, vendors and research projects can access, implement, translate, reference and build upon

Building on openly licensed specifications in Europe

- **Member States and EU stakeholders can build on a shared, reusable technical foundation.**
- Use openly licensed specifications as a basis for implementation guidance and interoperability testing.
- Translate and adapt material for national needs
- Contribute improvements back through SDO processes to support alignment between national adaptations and shared specifications.
- This supports European autonomy through the ability to use, preserve and evolve published technical assets.

The maintenance arc and its governance challenges

- **Specifications require continuing stewardship throughout their implementation life.**
- The maintenance arc includes implementation feedback, defect resolution, revision, testing and subsequent releases.
- Specifications, terminology bindings, examples and testing artefacts need to remain aligned as requirements and systems evolve.
- SDO experience points to the need for sustained participation across public authorities, healthcare users, implementers and technical experts.
- Multi-stakeholder governance needs clear decision rights, transparent change processes and traceability across versions
- Open licensing preserves reuse rights. Sustained expertise, resources and governance keep the specifications usable over time.

Key Takeaways

1

Engagement: Member State participation helps specifications reflect national implementation needs.

2

Participation routes: HL7 Affiliates, IHE PRISM and comparable SDO programmes connect stakeholder priorities with development and testing.

3

Open licensing: clear reuse permissions make specifications available as public-good infrastructure.

4

European reuse: stakeholders can implement, adapt and preserve openly licensed assets, with attribution and version traceability.

5

Long-term usability: specifications need a continuing maintenance arc supported by multi-stakeholder governance.

Q&A



Wrap-up

Jan Hulek

Summary

- Detailed technical specifications are a pre-requisite for an interoperable EHDS
- The stakeholder communities of IHE and HL7 are offering such specifications as public good through their established consensus processes
- Some member states are already engaging in this
- Adoption of technical specifications requires a sustainable setup for maintenance and evolution

Next SDO in-person events

- HL7 Europe Working Group Meeting, Malaga, Spain
 - 16-20 November 2026
- IHE-Europe Connectathon Week, The Hague, Netherlands
 - 19-23 April 2027



**IHE-Europe and HL7 Europe plan to give updates on
EURIDICE every 2 months**

If you are interested to support the work reach out to:

contact@euridice.org

Thank you for joining!