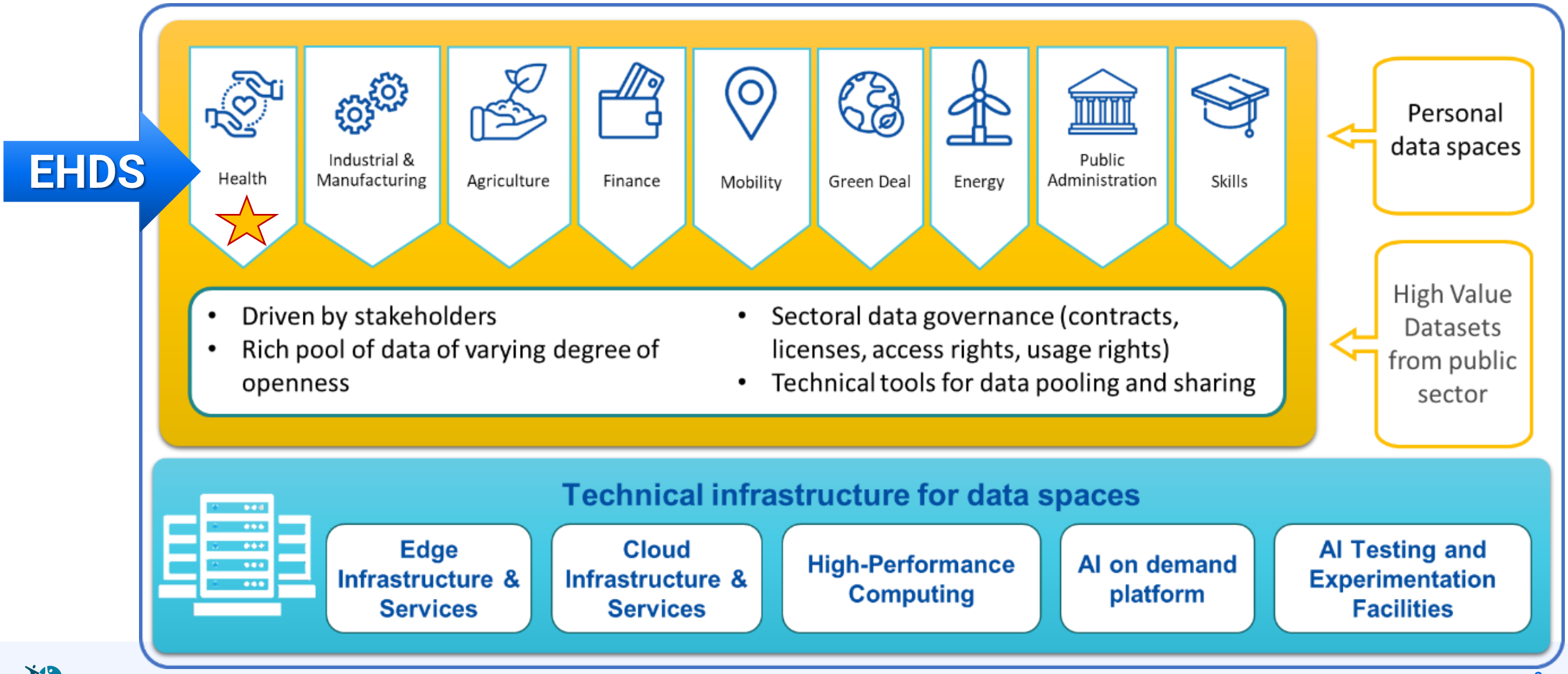
Helsedirektoratet

EHDS og FHIR

EHDS arbeidet og FHIR i EHDS spesifikasjoner

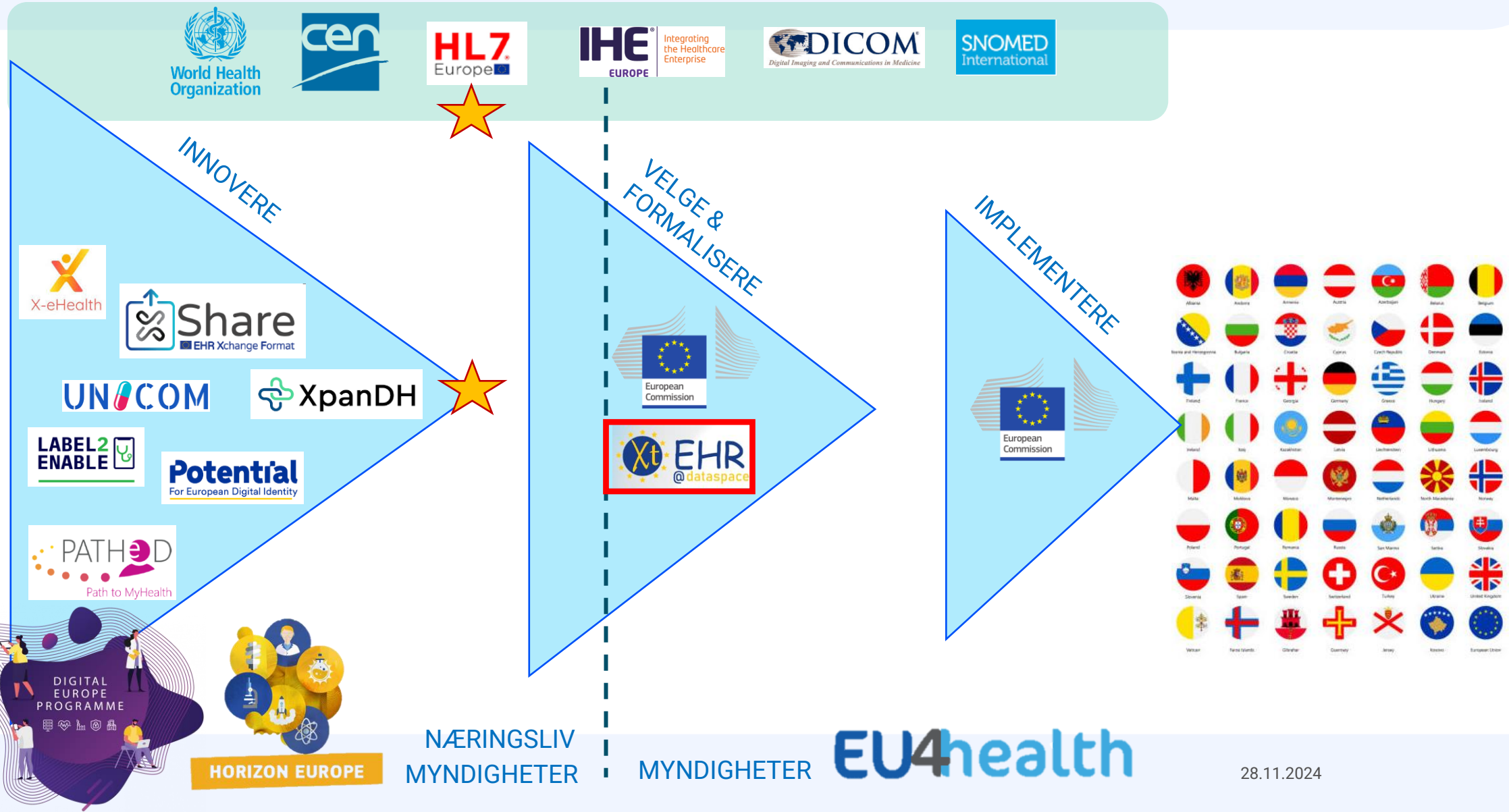
HL7 – FHIR Fagforum #27 : Europeisk standardiseringsarbeid og standardisering i Helsedirektoratet

Health is the first common EU data space => EDS



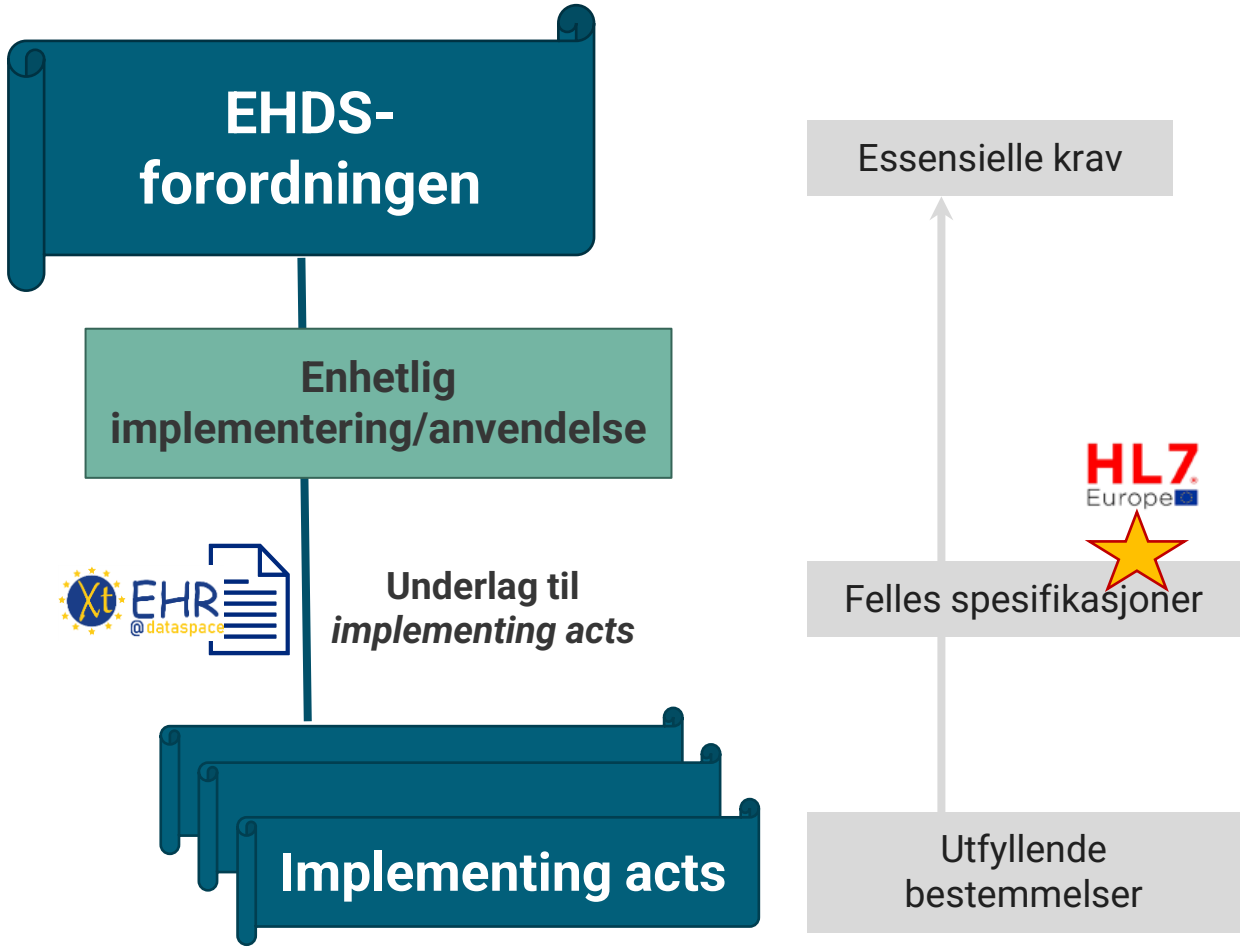
[1] How to make common European data spaces a reality | data.europa.eu

EU - Utvikling av nye spesifikasjoner og tjenester

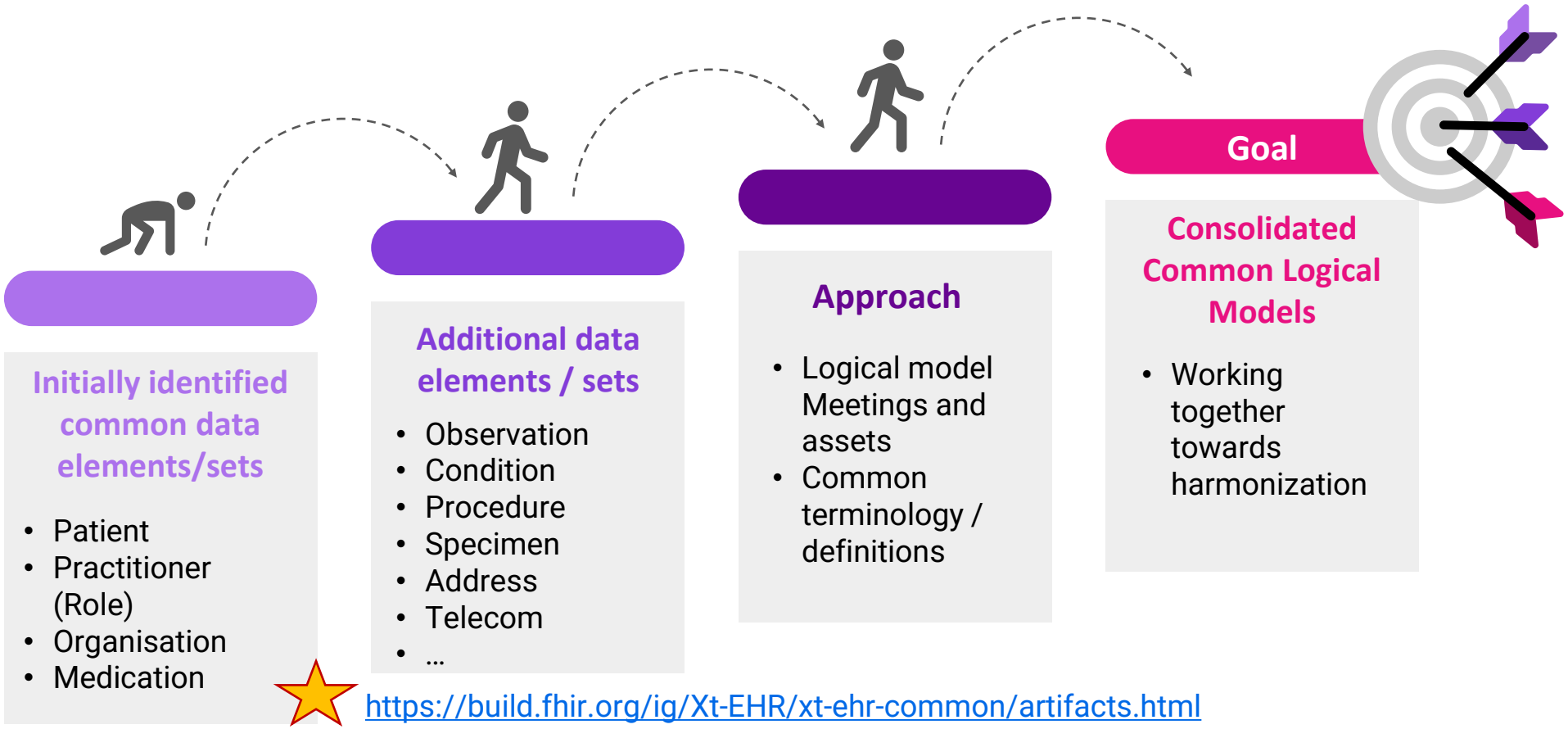


EHDS-forordningen, implementing acts og Xt-EHR

- EU-forordninger er bindende rettsakter, skal følges i alle detaljer i hele EU.
- Norge er forpliktet å gjennomføre forordninger i norsk rett.
- Kommisjonen har fullmakt til å vedta visse endringer, gjennomførings- eller utfyllende bestemmelser.
- **Gjennomføringsrettsakter ("implementing acts")** er utfyllende bestemmelser på hvordan en rettsakt skal gjennomføres.
- Kommisjonen vedtar implementing acts på områder hvor **enhetlig implementering** av lovverket er nødvendig.

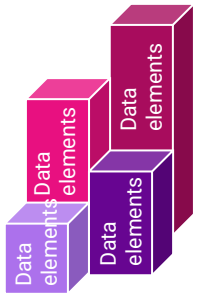


Towards common logical models



https://build.fhir.org/ig/Xt-EHR/xt-ehr-common/artifacts.html

Common data elements/sets



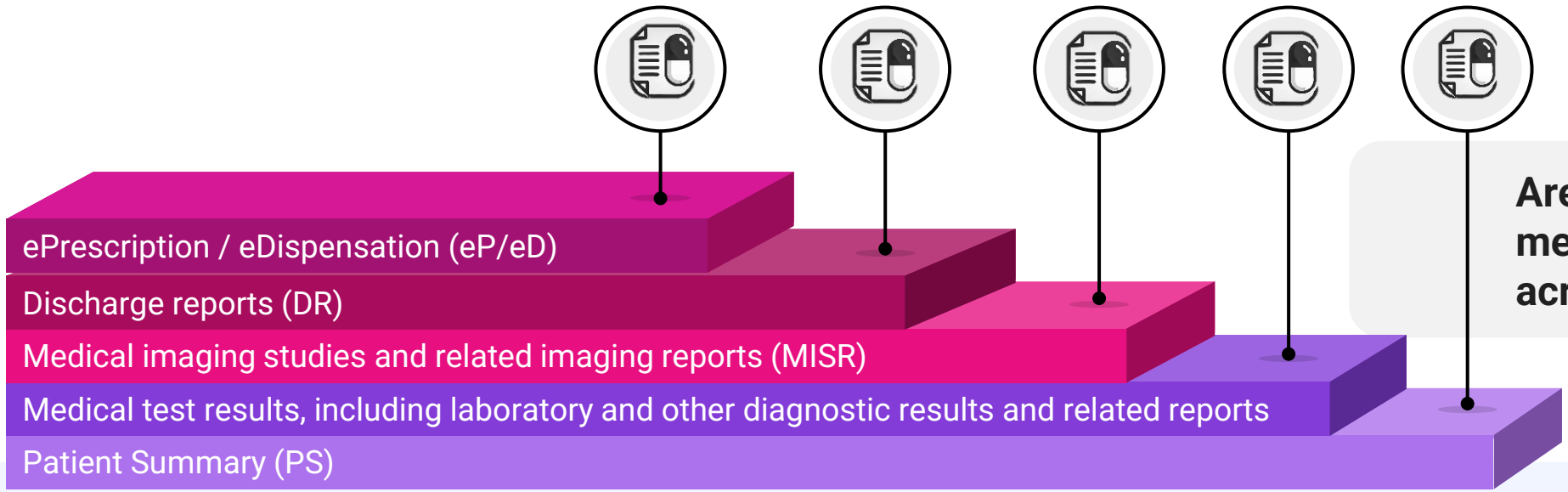
Common Data Elements/sets

used in multiple places across the EEHRxF

Medical test results: ...

Medication-related information:

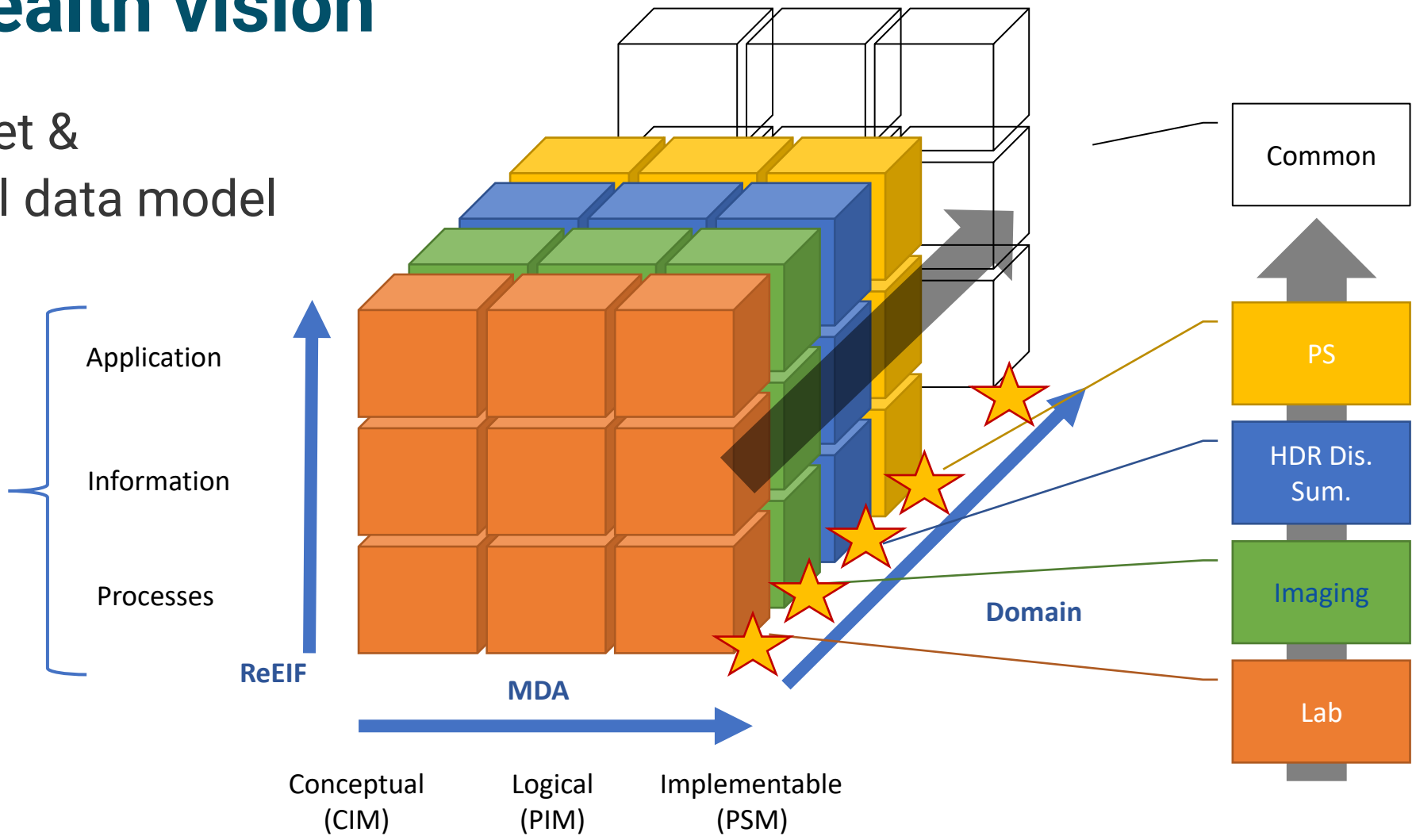
- Prescriptions and dispensations are the main concern of the e-prescription/-dispensation artefacts
- Medications are used in many non-prescription situations (drug allergy, administration, abuse, …)



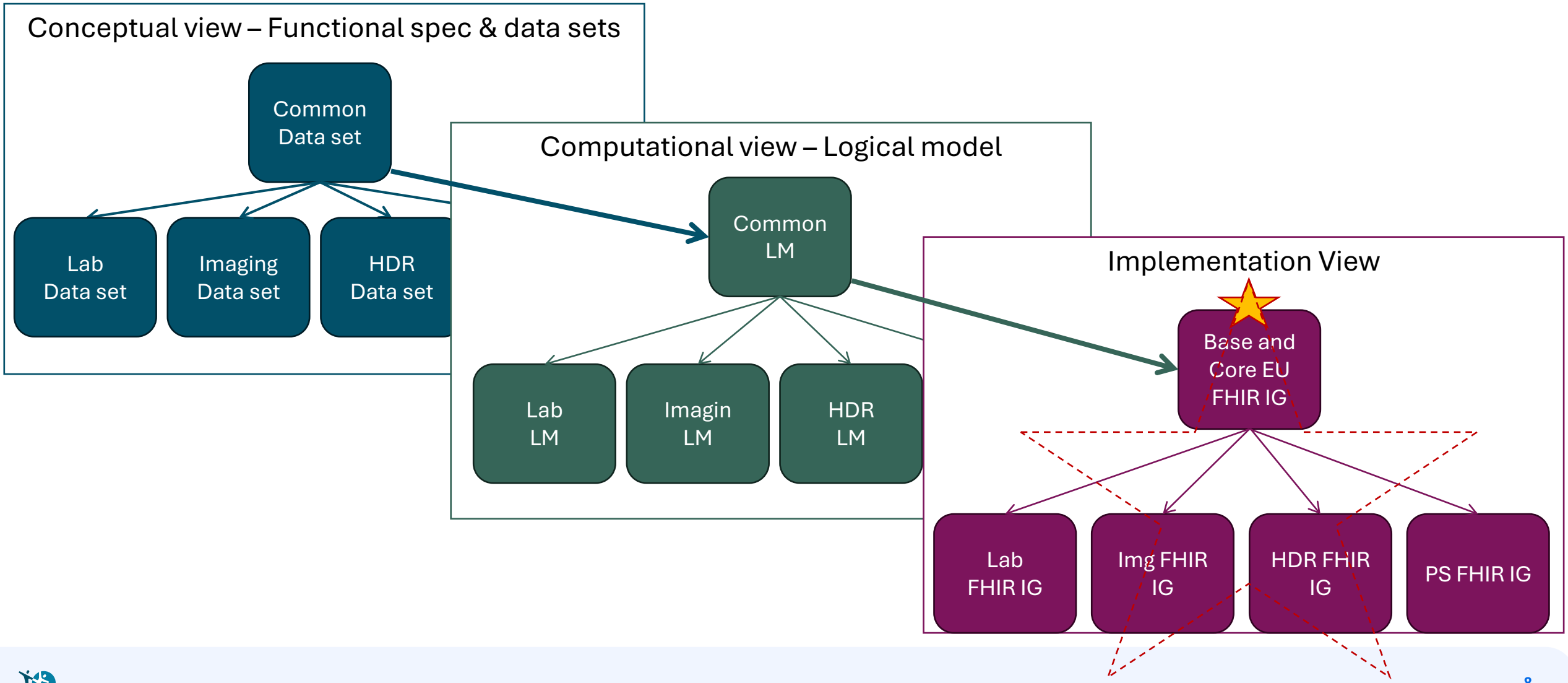
Are the requirements on medication data different across the EEHRxF?

X-eHealth vision

- Data set &
  Logical data model



Artefacts at different levels of the MDA



WP4: Sustainability and cross-border interoperability – Progress

Sustainability plan is aimed at maintaining financial, operational, and technical viability for the EHDS, enabling cross-border health data exchange across EU MS while complying with the EHDS Regulation and GDPR. Key points addressed:

- **Technical sustainability:** Ensures scalable, secure, and interoperable systems using standards like FHIR, HL7, and SNOMED. It includes continuous integration, encryption, and compliance with GDPR.
- **Operational Sustainability:** Focuses on governance structures, regular updates, cross-border collaboration, and training to maintain system efficiency.
- **Legal and Policy Sustainability:** Aligns national policies with the EHDS Regulation and GDPR, establishing governance for monitoring and compliance.
- **Financial Sustainability:** Proposes funding models and public-private partnerships for long-term financial support.
- **Implementation:** A phased approach with regular reviews ensures scalability and alignment with MS' needs.

Task 6.1 Patient Summary: EEHRxF, Requirements, and Specifications for EHR Systems

- **Progress status**:
  - Draft of deliverable D6.1 in preparation, will be finalised by the 31th of October, will contain the analysis of the state-of-the-art of implementation of PS across the Union and proposals to move forward
  - Collaboration with PS Cluster (f2f in Lombardy Region Delegation, Brussels, 3rd of October)
  - Synergies with CEN on International Patient Summary convergence (virtual meeting 17th of September) and HL7 Europé on HL7 FHIR IG on European Patient Summary (kickoff meeting 4th of October)
  - Work on maturity model is on hold (initial proposal is available yet deleted from D6.1), need to align with other WPs (especially WP7 and WP8), not a subject for PS only, approach must be common to all clinical documents

- **Timeline**:
  - D6.1 first draft by end of October; stable draft by May 2025 to kickstart the Stakeholders consultation process

- **Needs and main risks**:
  - Shared with T6.2 (see next slide)

WP6: Electronic prescriptions and patient summary towards EHDS – Progress

- **Milestone Update**
  - **MS17: Patient Summary: EEHRxF** –
    - Frist draft of D6.1
    - Due in Oct 2024
  - **MS18: Patient Summary: functional and technical requirements for EHR systems**
    - Due in Apr 2025 [M18]
  - **MS19: Electronic prescription and electronic dispensation: EEHRxF**
    - First draft of D6.2
    - Due in Aug 2024 [M10] – pending approval for extending to Oct 2024 [M12]
- **Ongoing and Future work**
  - Integration efforts with MyHealth@EU, the Patient Summary Cluster, the ePrescription Cluster, Semantics Task Force, HL7
  - Assessment of FHIR implementation guides of Patient Summary
  - Align with WP8 on maturity models

WP7: New services for EHR systems towards EHDS

Task Descriptions

T7.1 Laboratory Results and Reports: EEHRxF, Requirements, and Specifications for EHR Systems
Develop specifications for secure, machine-readable transmission of laboratory and diagnostic data. It will include harmonized datasets, coding systems, technical standards, and quality requirements to support interoperability and data exchange as per the EHDS regulation.

T7.2 Medical Images and Reports: EEHRxF, Requirements, and Specifications for EHR Systems
Establish technical requirements for exchanging medical images and reports based on standards like HL7, FHIR, and DICOM, to support cross-border interoperability in alignment with the EHDS Regulation.

T7.3 Discharge Reports: EEHRxF, Requirements, and Specifications for EHR Systems
Specify requirements for the interoperable exchange of discharge reports using standards such as HL7 CDA, FHIR, and SNOMED, and provide implementation guides to facilitate cross-border exchange within the EHDS framework.

Key Objectives

1. **EEHRxF for Medical Images, Laboratory Results, and Discharge Letters:**
   Develop requirements for implementing the EEHRxF to securely exchange medical images, laboratory results, and discharge letters, supporting the European Health Data Space (EHDS).
2. **Implementation Guides for EHR Systems:**
   Create implementation guides that define common specifications for processing medical images, laboratory results, and discharge letters across different EHR systems.
3. **Analysis of Common Specifications:**
   Analyze and harmonize common specifications across various services (medical images, lab results, discharge letters) to ensure interoperability.

https://build.fhir.org/ig/Xt-EHR/xt-ehr-common/artifacts.html

Xt-EHR
0.1.0 - ci-build

Home | About | EHDS Use Cases | Artifacts

Table of Contents > **Artifacts Summary**

Xt-EHR, published by Xt-EHR. This guide is not an authorized publication; it is the continuous build for version 0.1.0 built by the FHIR (HL7® FHIR® Standard) CI Build. This version is based on the current content of https://github.com/Xt-EHR/xt-ehr-common/ and changes regularly. See the Directory of published versions

5 Artifacts Summary

This page provides a list of the FHIR artifacts defined as part of this implementation guide.

Contents:

- EHDS Common Logical Models
- EHDS ePrescription and eDispense Logical Models
- EHDS Laboratory Domain Logical Models
- EHDS Imaging Domain Logical Models
- eHN Guidelines Data Sets
- Structures: Logical Models
- Structures: Data Type Profiles

5.0.1 EHDS Common Logical Models

Information Models for implementing EEHRxF services under EHDS. Format based on ISO 13972 "Health informatics — Clinical information models — Characteristics, structures and requirements."

Address (model)	C.5 - EHDS refined base model for Address structure
Allergy Intolerance	C.21 - EHDS refined base model for Allergy Intolerance
Appointment (model)	C.20 - EHDS refined base model for Appointment
Attachment (model)	C.7 - EHDS refined base model for This type is for containing or referencing attachments - additional data content defined in other formats. The most common use of this type is to include images or reports in some report format such as PDF. However, it can be used for any data that has a MIME type.
Care plan (model)	C.19 - EHDS refined base model for Care plan
Condition (model)	C.15 - EHDS refined base model for A clinical condition, problem, diagnosis, or other event, situation, issue, or clinical concept that has risen to a level of concern.
Device (model)	C.12 - EHDS refined base model for Device information
Goal (model)	C.XX - EHDS refined base model for Goal
Group (model)	C. - EHDS refined base model for Group
Health professional (model)	C.2 - EHDS refined base model for Health professional (HP)
Health professional role (model)	C.4 - EHDS refined base model for Role and location details associated with a practitioner that are applicable to the healthcare event.