

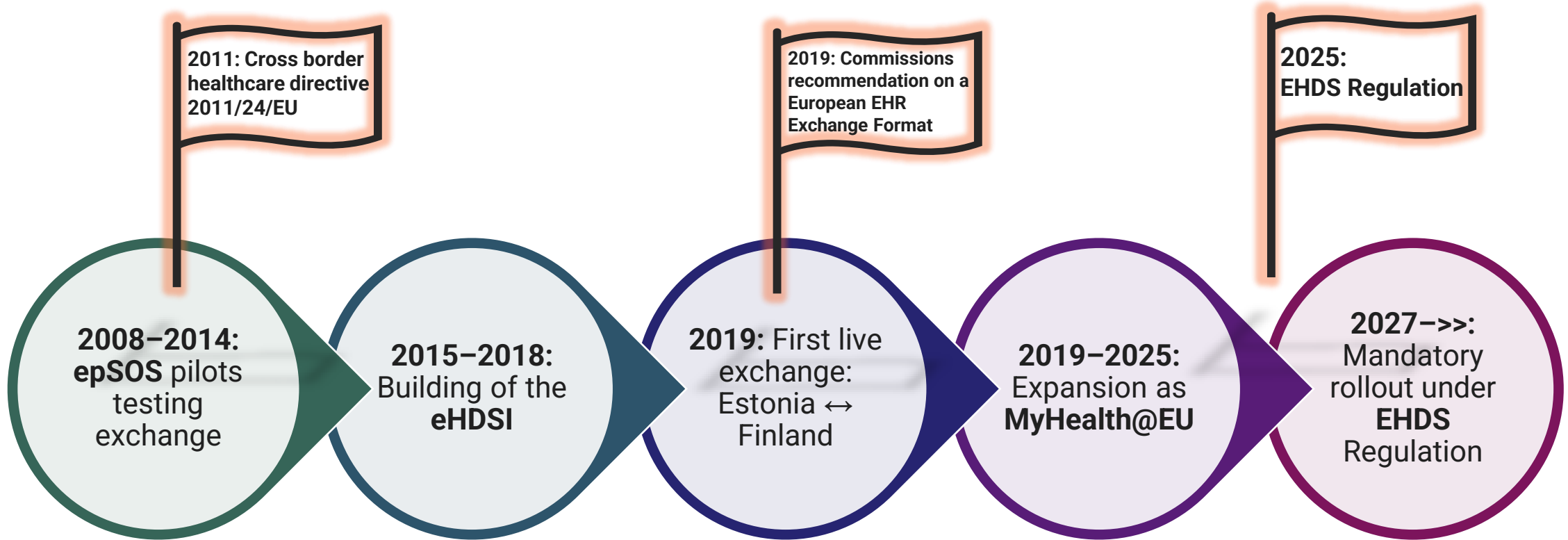
EHDS and Xt-EHR work in Norway

FHIR fagforum #32, 22nd October 2025

Kerstin Engelhardt and Morten Bakken - Norwegian Directorate of Health, Department of standardisation

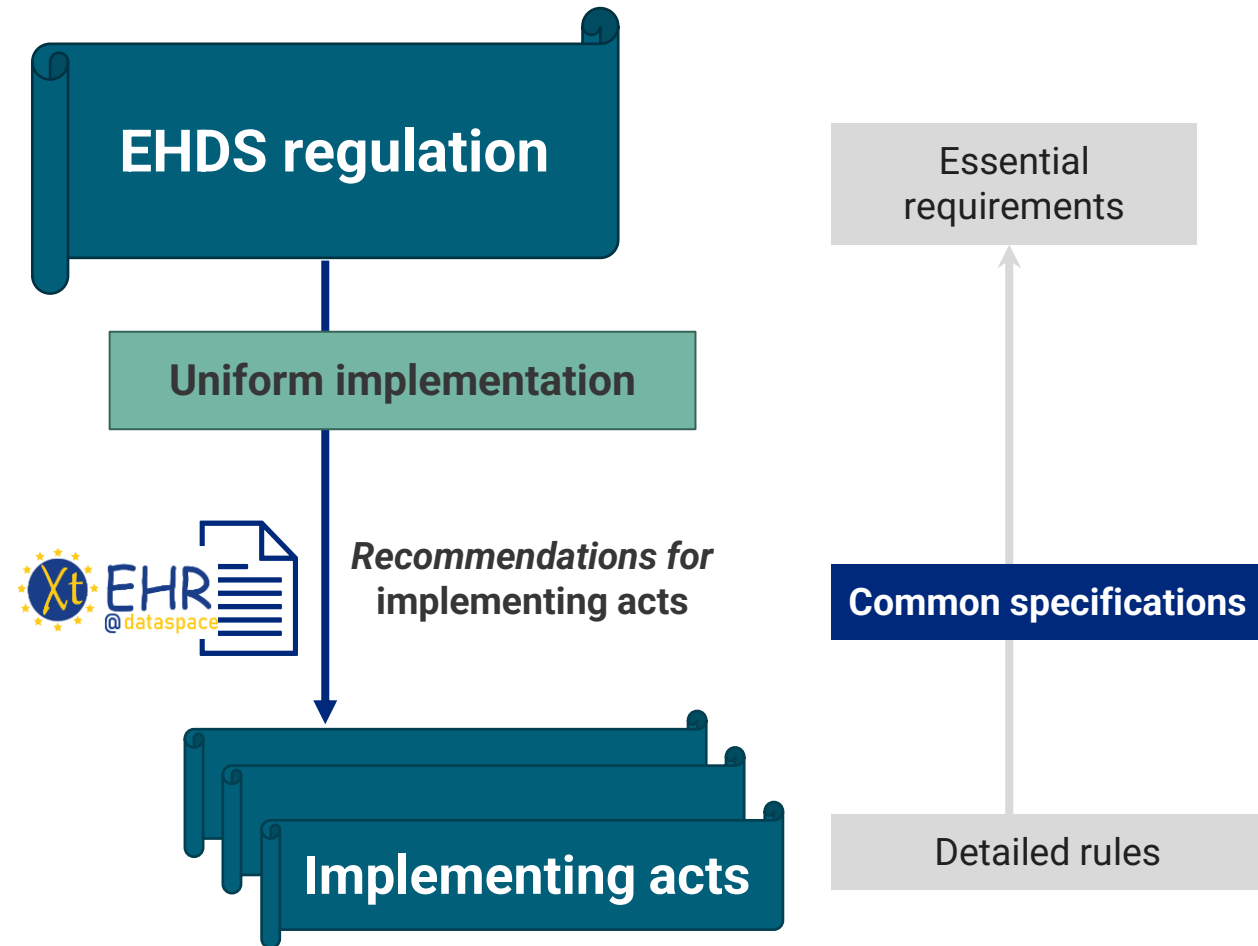


Evolution of European eHealth & EHR interoperability



EHDS regulation, implementing acts and Xt-EHR

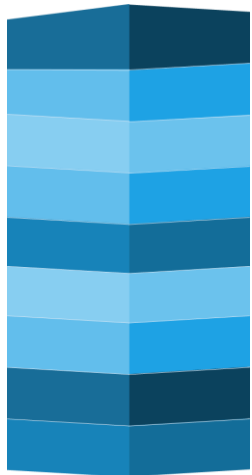
- EU regulations are binding legal acts that must be applied in full across all EU Member States.
- Although Norway is **not a member of the EU**, it is bound by the EEA Agreement to implement relevant EU regulations into Norwegian law.
- **Implementing acts** are supplementary legal instruments adopted by the **European Commission** that specify how a regulation should be applied in practice => common specifications.
- The Xt-EHR joint action was established to provide recommendations for technical specifications for key implementing acts for primary use in EHDS:
 - European Electronic Health Record Exchange Format, EEHRxF (art. 15)
 - Common specifications for EHR systems (art. 36)



- EU4Health Joint Action Xt-EHR
*«Preparatory actions for a European Health Data Space; **primary use of data** (for healthcare) and reuse of data»*
- Consortium of >50 partners
- Coordinator: Cyprus (National eHealth Authority)
- Norway is participating with Directorate of Health as competent authority
- Duration: 1.11.2023 – 30.04.2026 (30 months)



Norway's participation in Xt-EHR



Helsedirektoratet
Norwegian Directorate of Health



WP 01 Project management and coordination

WP 02 Dissemination

WP 03 Evaluation

 WP 04 Sustainability and cross-border interoperability

 WP 05 General requirements for EHRs and system interfaces

 WP 06 Electronic prescriptions and patient summary towards EHDS

 WP 07 New services for EHR systems towards EHDS

 WP 08 Certification and labelling framework

 WP 09 Telemedicine under MyHealth@EU in alignment with EHDS proposal



Norway's participation in the Xt-EHR Joint Action

- Norwegian Directorate of Health is Norway's national eHealth authority
- Subordinate agency under the Ministry of Health and Care Services
- Mandate related to Xt-EHR for 2024/2025:
 - **Participate** in Joint Action 09: Xt-EHR
 - **Involvement** of relevant stakeholders in Norwegian health sector, via national joint committee for eHealth Standardisation
 - Carry out **Targeted Stakeholder Consultations** in Norway on project deliverables linked to EHDS Implementing Acts



Collaboration model for international standards

- Cooperation between various stakeholder groups in Norway
- Defined roles and responsibilities to accelerate standardization, strengthen digitalization, and improve resource management

Joint committee for eHealth standardisation

- Updates on ongoing international standardization activities
- Broad range of stakeholders from the Norwegian healthcare sector: regional health authorities, municipalities, medical associations of HPs, EHR software and system vendors, standardization organizations

Communication
about EHDS+Xt-EHR

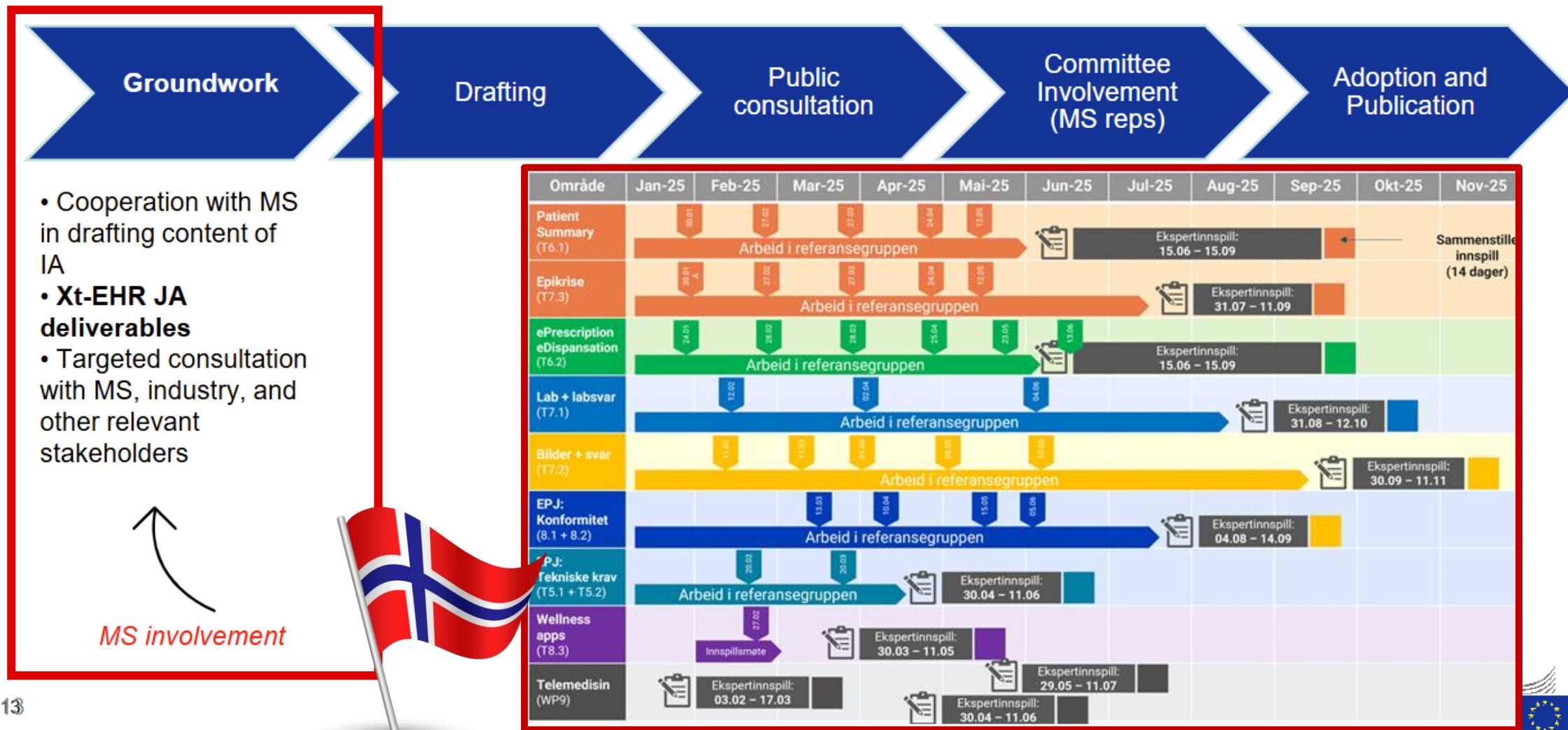
2024
2025



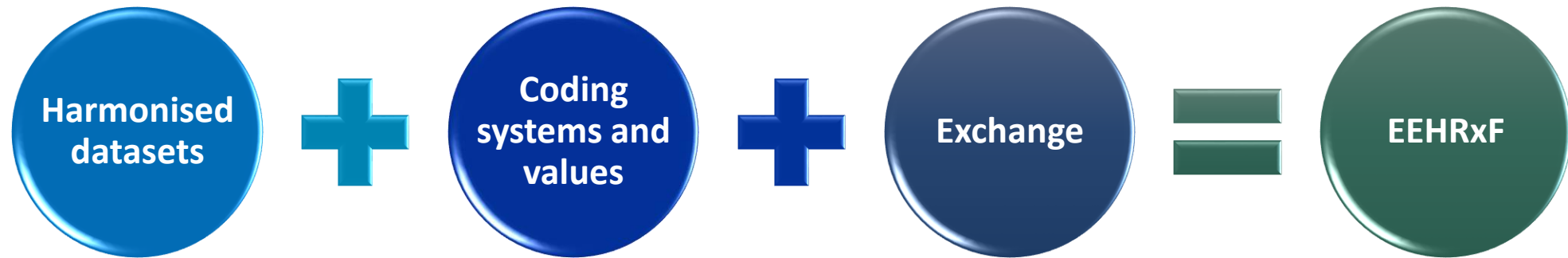
Open call for experts
Dec 2024



Flow for the adoption of implementing acts



Art. 15 – Technical specifications for EEHRxF



- Mandatory European exchange format for transmission of structured and unstructured health data
- Commonly used, machine-readable
- For priority categories:
 - Patient summaries • Electronic prescriptions/dispensations • Medical imaging studies and reports • Laboratory results and reports • Discharge reports
- MS shall ensure issuing and acceptance of health data in EEHRxF (-> obligations on national infrastructure/portals and on healthcare providers/EHR systems)
- EC shall provide regular updates (revisions of coding systems, nomenclatures)

Xt-EHR choice of technical standards for EEHRxF

- Xt-EHR deliverables include recommendations for standards for technical interoperability specifications
- Specifications are developed in closed collaboration with SDOs, dedicated MoUs signed with:
 - HL7 Europe
 - IHE Europe
- HL7 FHIR as baseline technical interoperability standard for Xt-EHR implementation guides, complemented by DICOM for medical imaging

EEHRxF use cases

the **download** of an electronic copy of at least the personal electronic health data in the priority categories (access right, Article 3(2))

the transmission to healthcare providers chosen by the patient of electronic health data downloaded based on the access right in Article 3(2) (**portability** right, Article 7(4))

the exchange of the priority categories of personal electronic health data between national contact points for digital health (**MyHealth@EU**, Article 23), including to support the portability right of patients across-borders (Article 7(2))

the **harmonised interoperability component** of electronic health record (EHR) systems (common specifications, Article 36, and essential requirements for EHR systems, Annex II)

Development of the Format



Xt-EHR and the EEHRxF



- Publicly available logical models - : [Home - EHDS Logical Information Models v0.1.0](#)
- Xt-EHR – a guideline-level approach

After this deliverable is completed, Standards Development Organizations such as HL7 EU and IHE Europe will draft the **FHIR Specification level** that meets these functional requirements. These organizations run in a balloting process, which encourages open participation from the specification's community.

- Implementation profiles

Xt-EHR collaboration with SDOs



MEMORANDUM OF UNDERSTANDING

Between

National eHealth Authority (NeHA)

Representing the Project "Extended EHR@EU Data Space for Primary Use"

No 101128085 — Acronym "Xt-EHR"

and

HL7 Europe



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EURIDICE – HL7 and IHE



EURIDICE - European Interoperability Specifications for Digital Solutions in Healthcare

Collaboration Goals

Joint co-branded Standards
The best from both

Initially to address EHDS requirements

First Pilot:
Imaging Study Report

(aligned with the IHE International RAD Imaging Diagnostic Report)

Offer these specifications to
Xt-EHR and the EC
for possible adoption by the
EHDS Implementing Acts

Propose the derivation of
global level specifications, as
applicable



euridice.org
European Interoperability
Specifications
for Digital Solutions in Healthcare

To be referred from



