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FHIR in Europe (and around the world)

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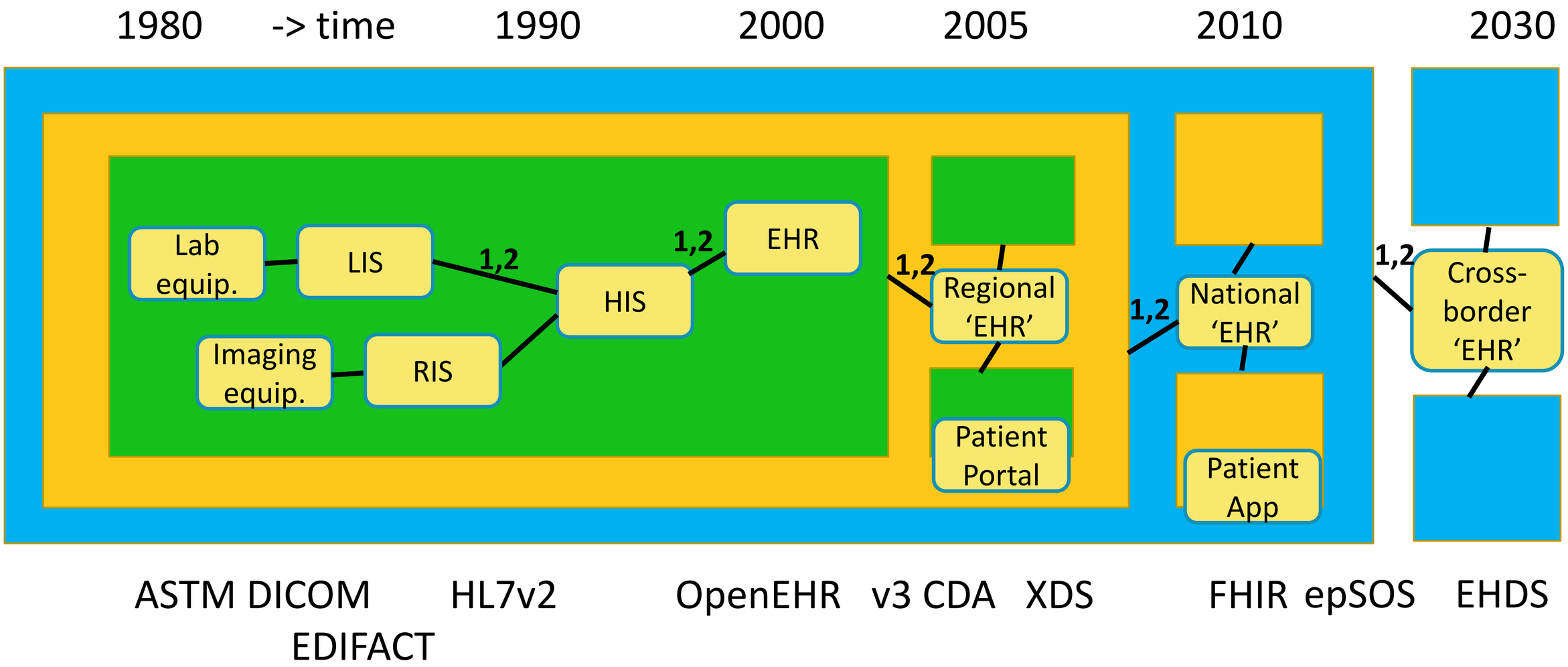
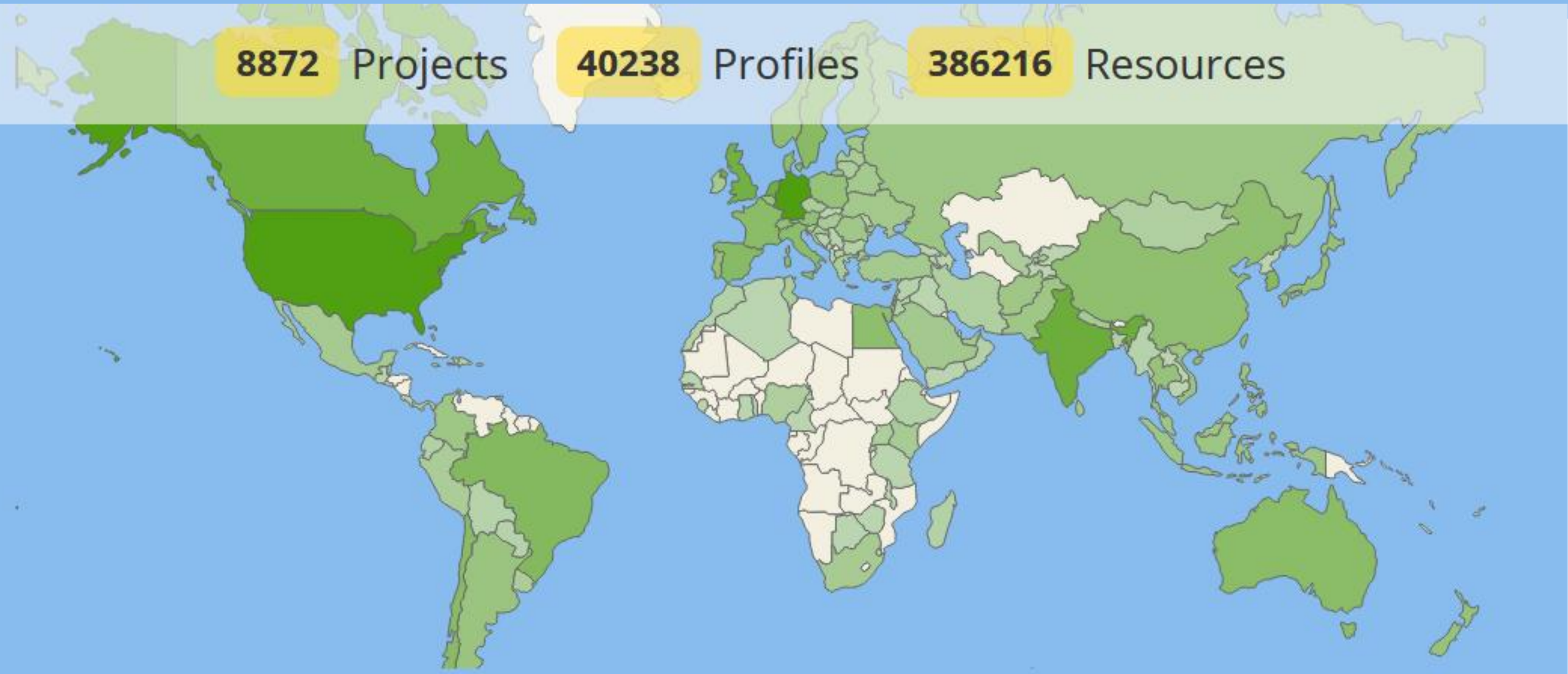
Interoperability: scaling and standards



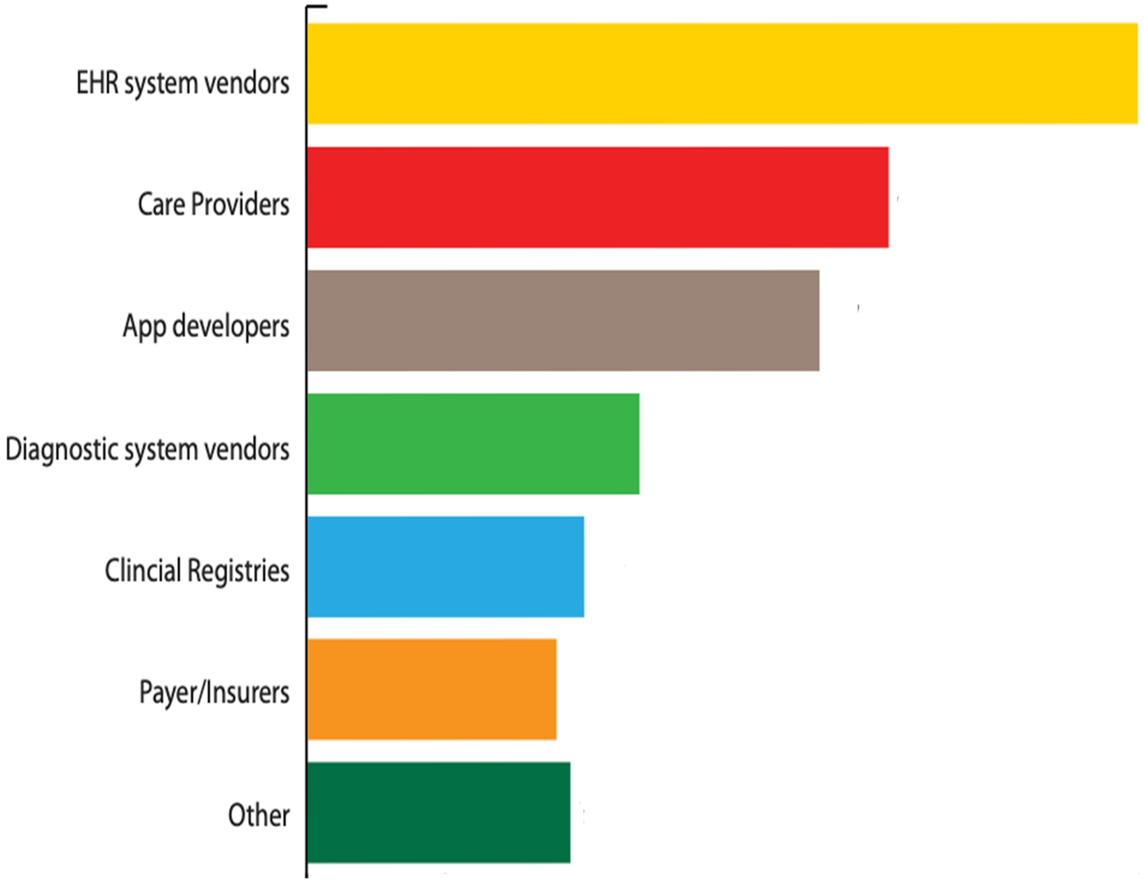
1,2: First, text/document summary, followed by structured data at a later stage

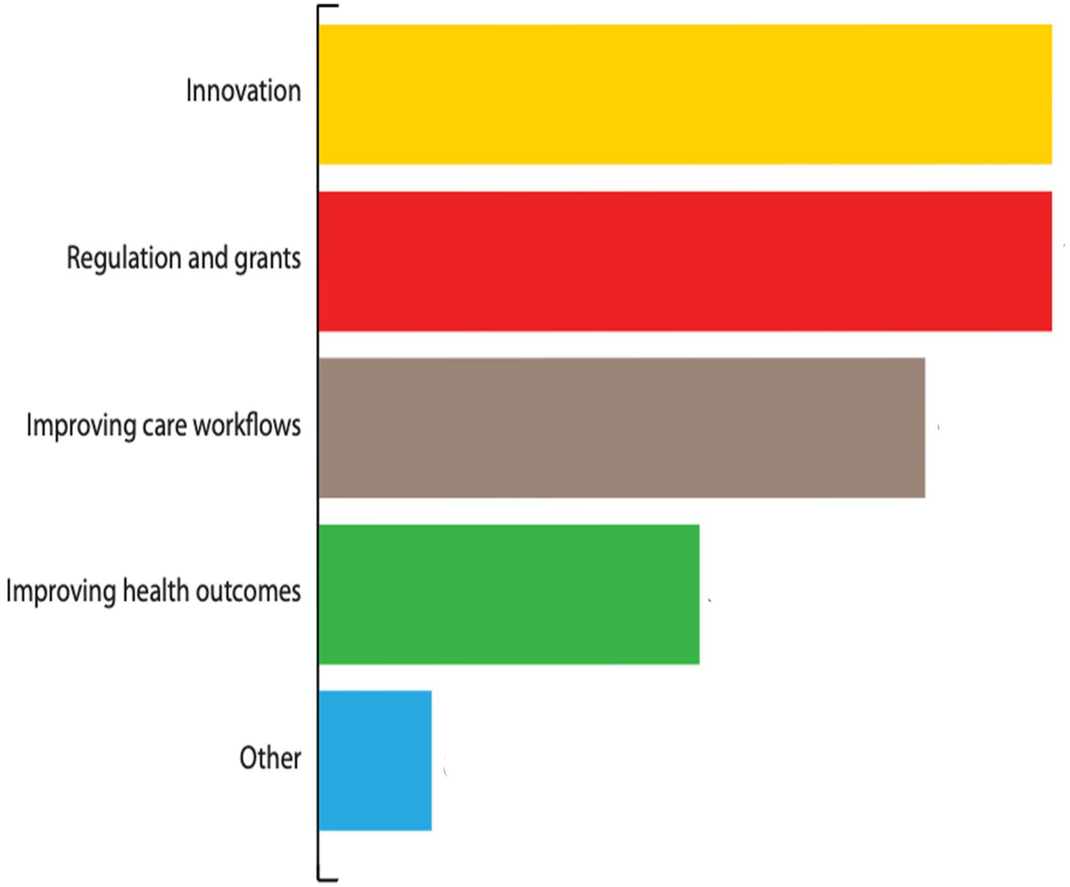
FHIR Adoption



Who is adopting FHIR and Why?

Firely/HL7 International Survey, Worldwide participants*





Source: State of FHIR Survey, Firely/HL7, 2025

Regulation and National Standards

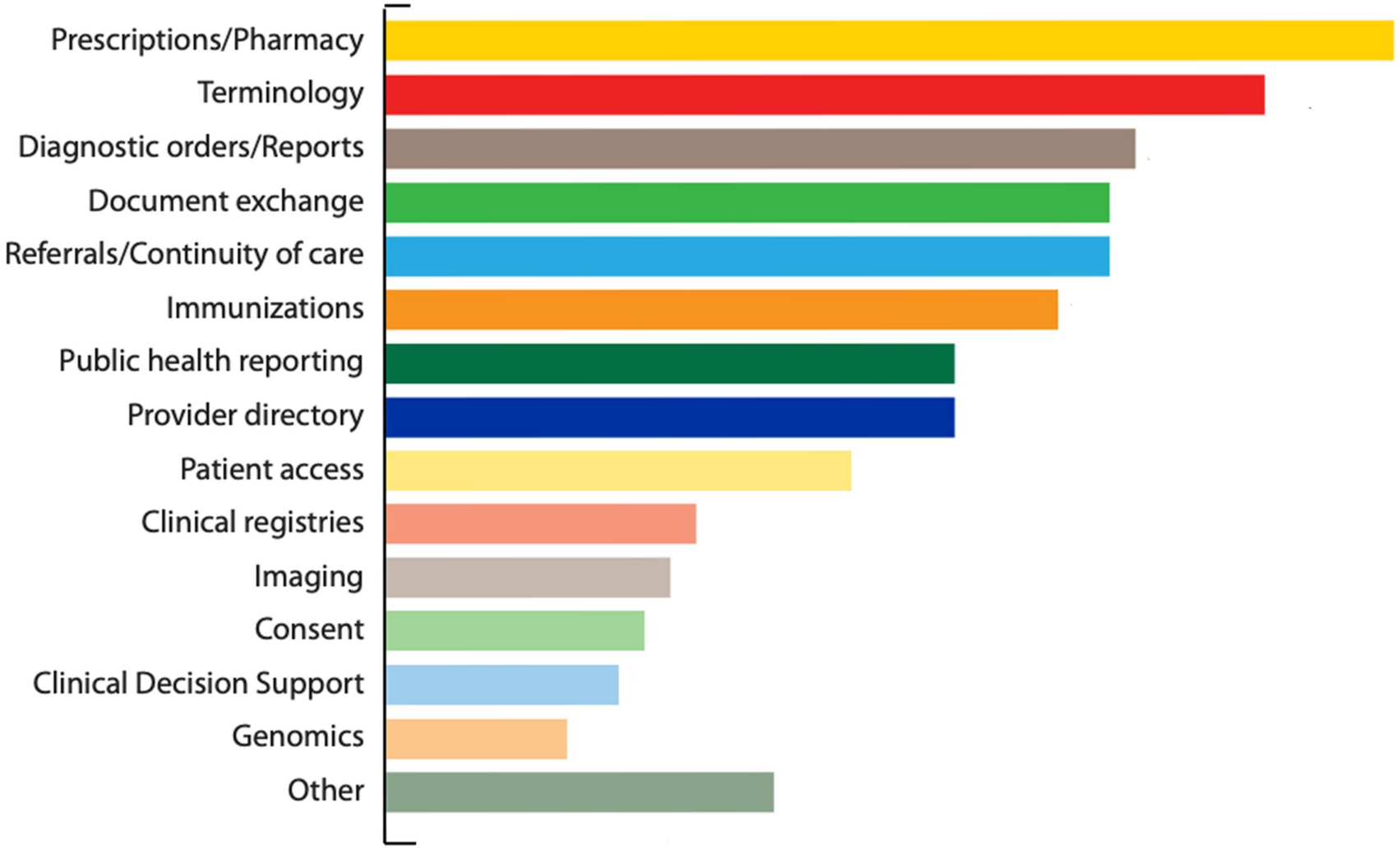
78% reported **regulation** for electronic health data exchange

- 73% said FHIR is either mandated or is being advised
  - (up from 65%)
- ~half with deadlines
- ~half have funds available
- Most don't have fines

Vast majority of respondents have a **national organization** for health data standards

Source: State of FHIR Survey, Firely/HL7, 2025

Use cases for FHIR

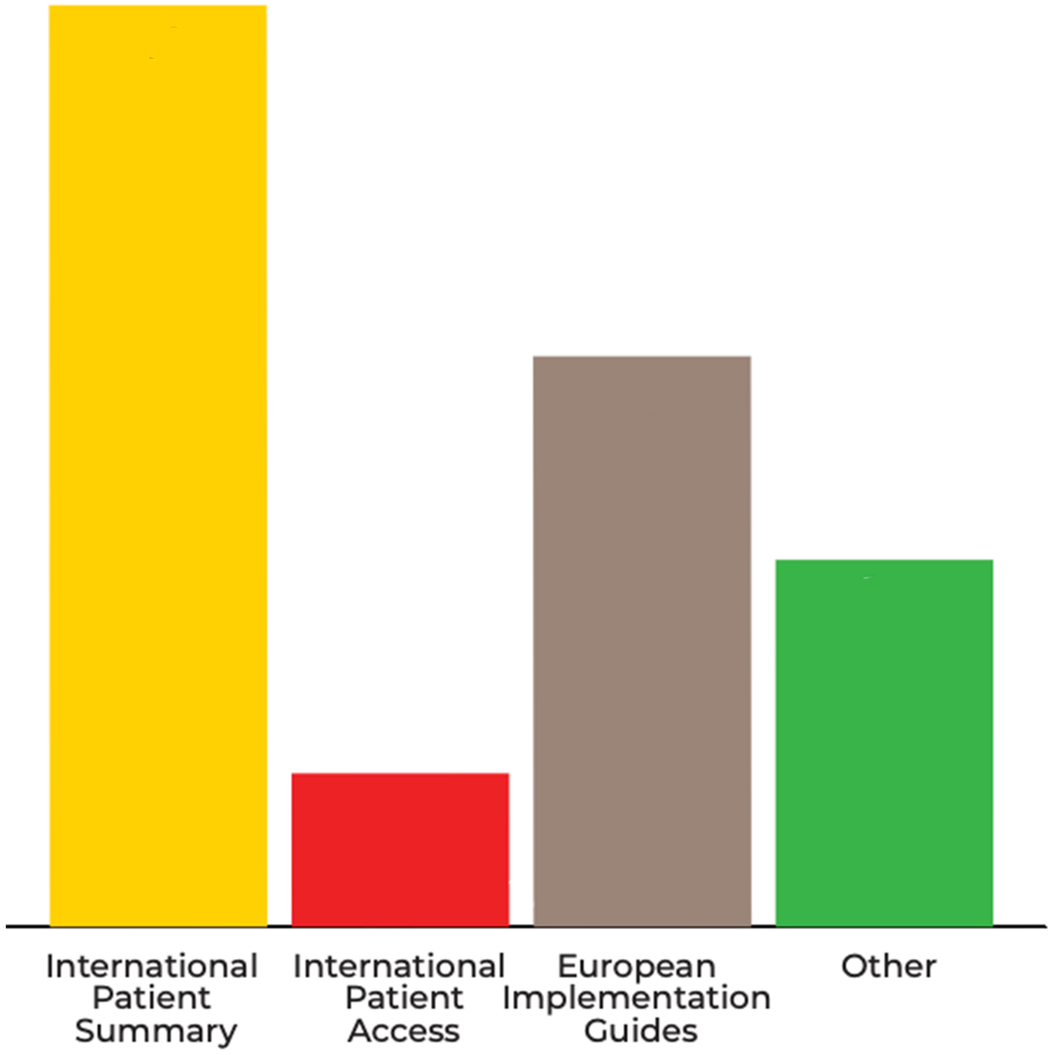


Common in **Other**:

- Scheduling
- Allergy intolerance
- Invoice and Claim

Source: State of FHIR Survey, Firely/HL7, 2025

Alignment with **international guides**

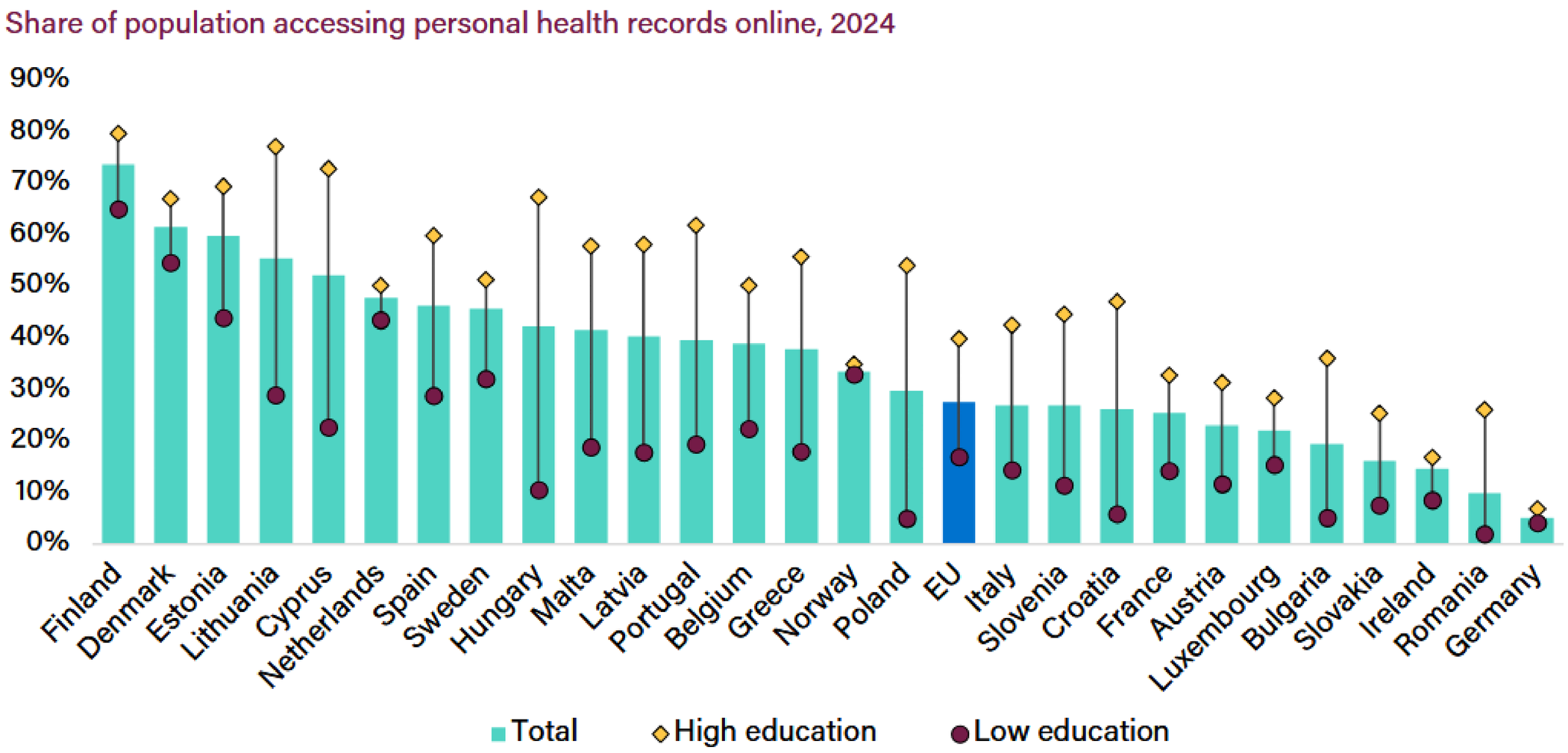


Common in **Other**:

- IHE profiles

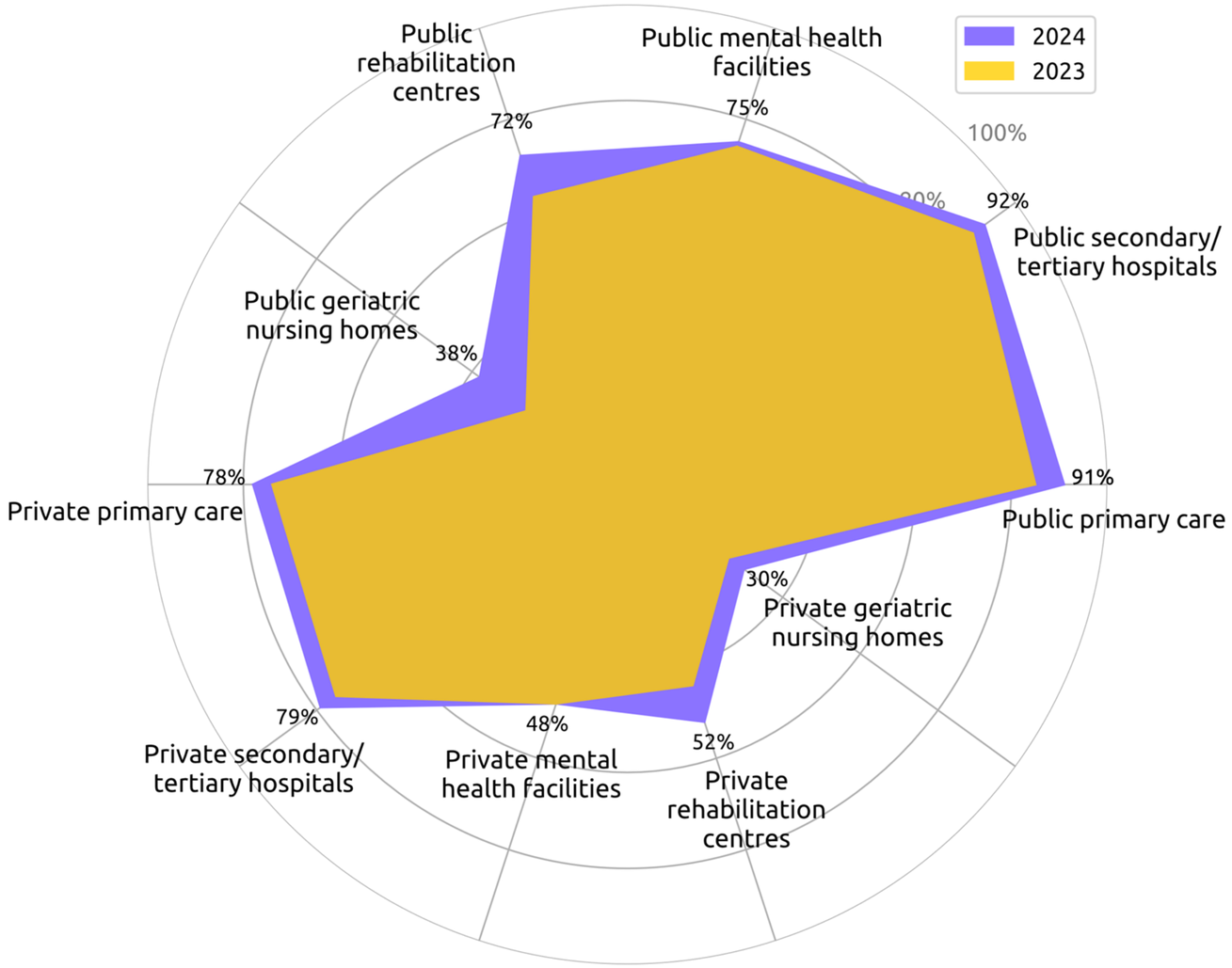
Source: State of FHIR Survey, Firely/HL7, 2025

Accessing Personal Health Records



Source: State of Health in the EU – Synthesis Report 2025

Patient Access to data, by Source



Source: 2025 Digital Decade EHealth Indicator Study

FHIR exchange mechanism usage

	Not at all					Widely used
FHIR Messaging	29.5%	20.5%	15.9%	10.2%	8%	3.4%
FHIR Documents	23.3%	20.9%	17.4%	8.1%	10.5%	7%
FHIR REST API	5.4%	9.8%	23.9%	19.6%	18.5%	18.5%

Source: State of FHIR Survey, Firely/HL7, 2025

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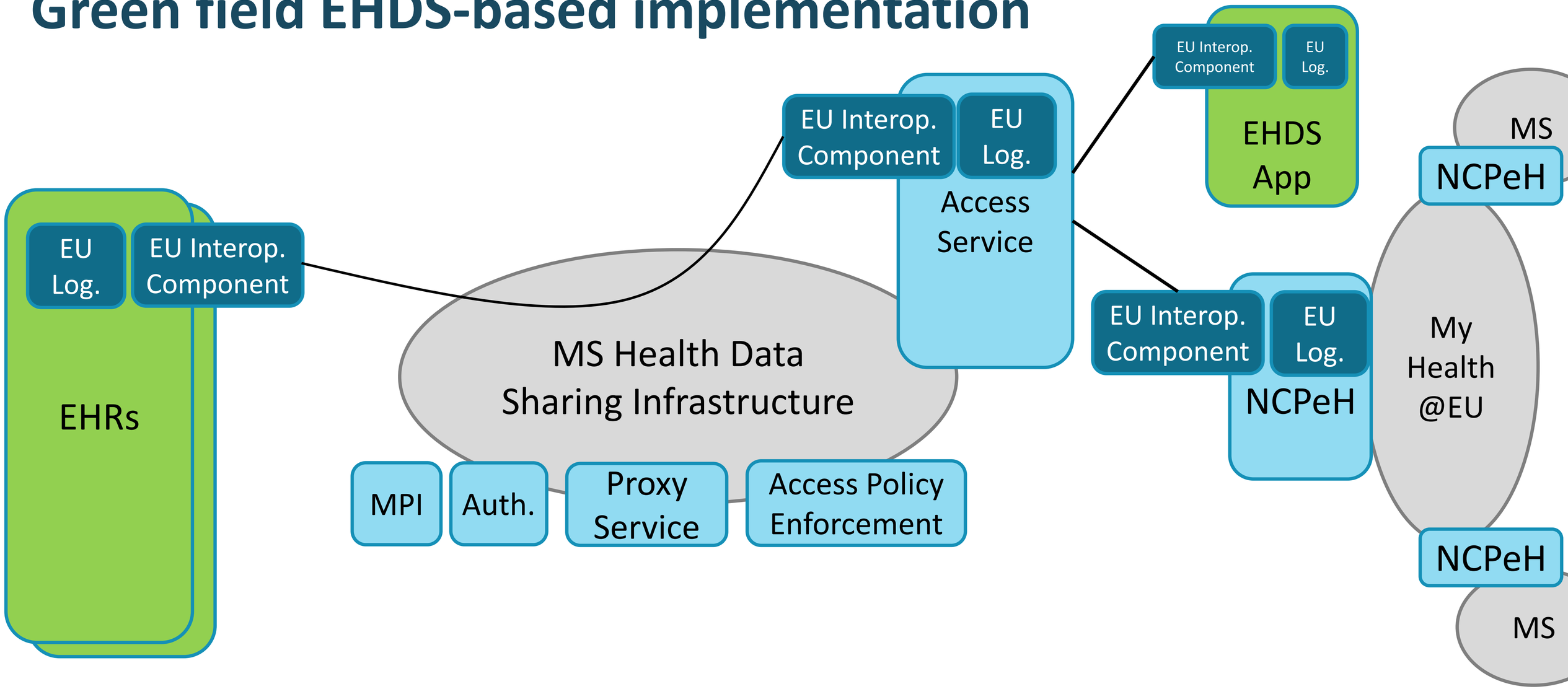
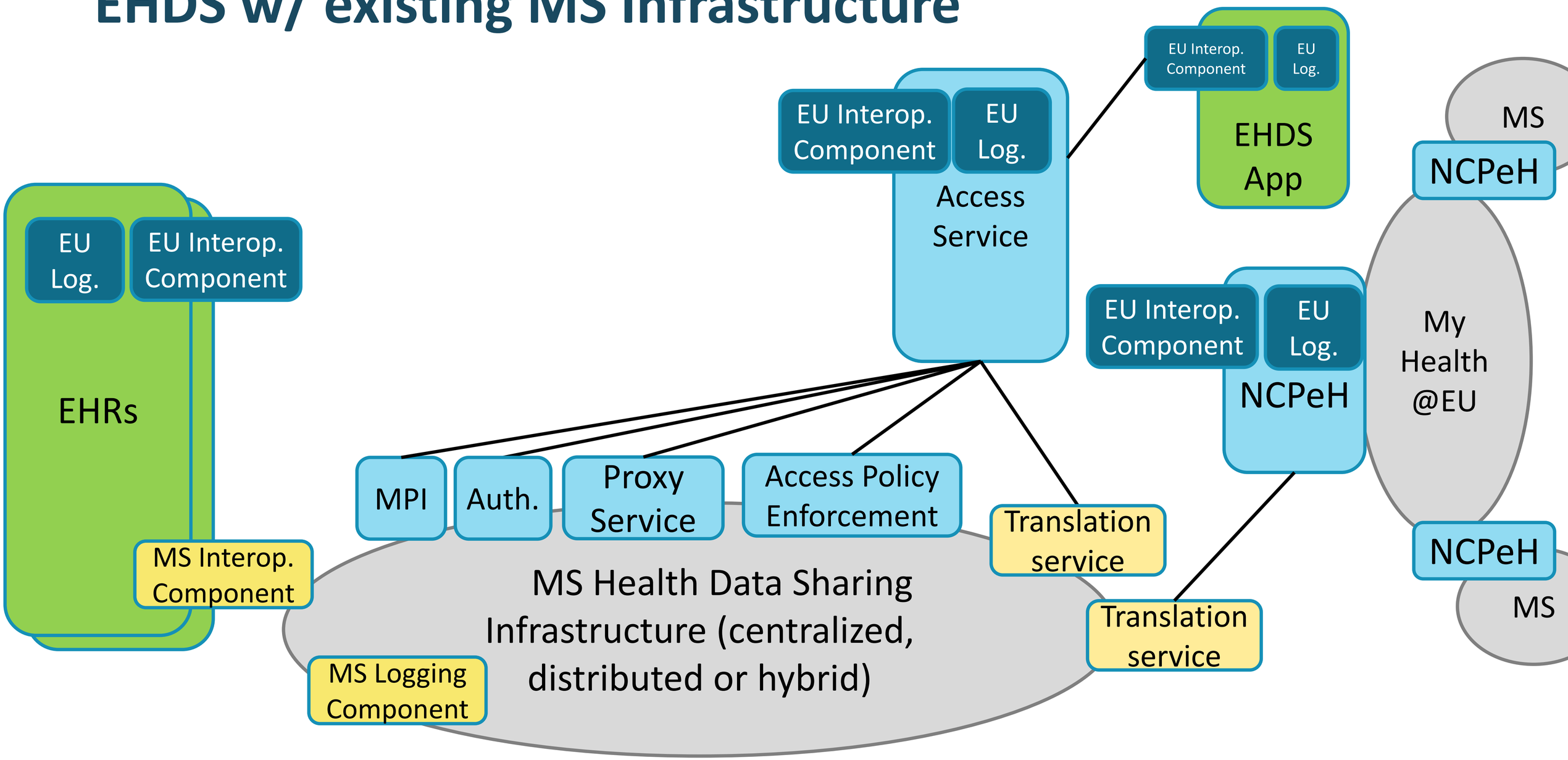
..and now: EHDS!

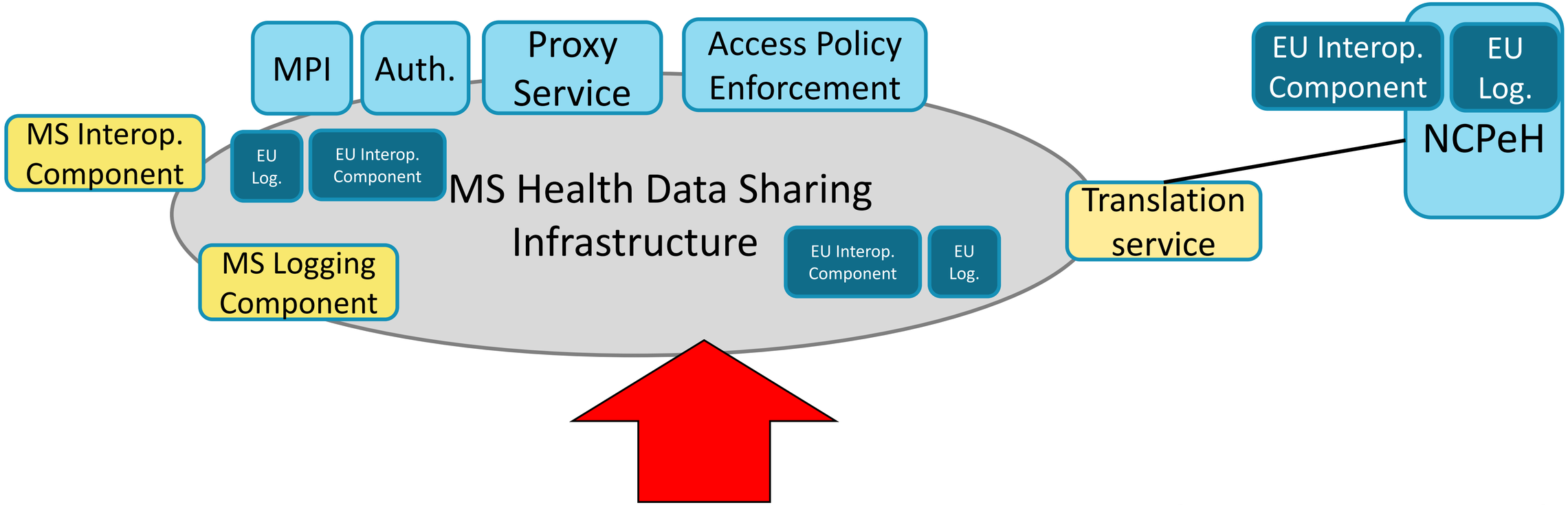
Green field EHDS-based implementation



EHDS w/ existing MS Infrastructure



Existing infrastructure: impact of EHDS requirements



- ***Gap Analysis:*** *Logical Models, Obligations (MustSupport) in FHIR IGs, Logging Requirements, Patient initiated corrections, Data portability requirements, …*

Summary

1. HL7/IHE and other standards contribute significantly to (inter)national exchange architectures
2. The scope of interoperability projects has been growing for well over 50 years
3. The use of FHIR is increasing - FHIR is required by legislation in ever more jurisdictions

Available via HL7 Europe and (some) HL7 affiliates

EHDS-on-FHIR training course

★ ★ ★ ★

How will it impact my interoperability landscape ?

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