



The FHIR momentum

The benefits of a standards-based approach for registries



Firely - nice to meet you

Who are we and who am I?

- Initiators of FHIR
- Authors of the Open Source FHIR reference implementation [Firely .NET SDK](#)
- Maintainers of the global platform for FHIR specifiers [Simplifier.net](#)
- Developers of the leading FHIR-native FHIR API Data Platform [Firely Server](#)
- Organizers of [FHIR DevDays](#)
- Preferred [FHIR trainers](#) since 2013



Why standards are becoming more and more relevant

- Digitization of the patient record
- Increasing costs and staffing shortages
- From single-institution care to patient-centered network care
- Technology trends
 - APIs
 - Mobile apps
 - Cloud
 - AI

➤ Need for more **interoperability**



Why FHIR is different

How FHIR stands out compared to other interoperability standards

- Modern web technologies
- Discrete data
- Community & ecosystem
- Government support



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Benefits of FHIR for registries

When you're in the business of collecting & harmonizing data for secondary use

- Efficiency gains
- Shortening the feedback loop
- Reusing open tools and resources
- Reduce vendor lock-in
- Burden reduction for data providers



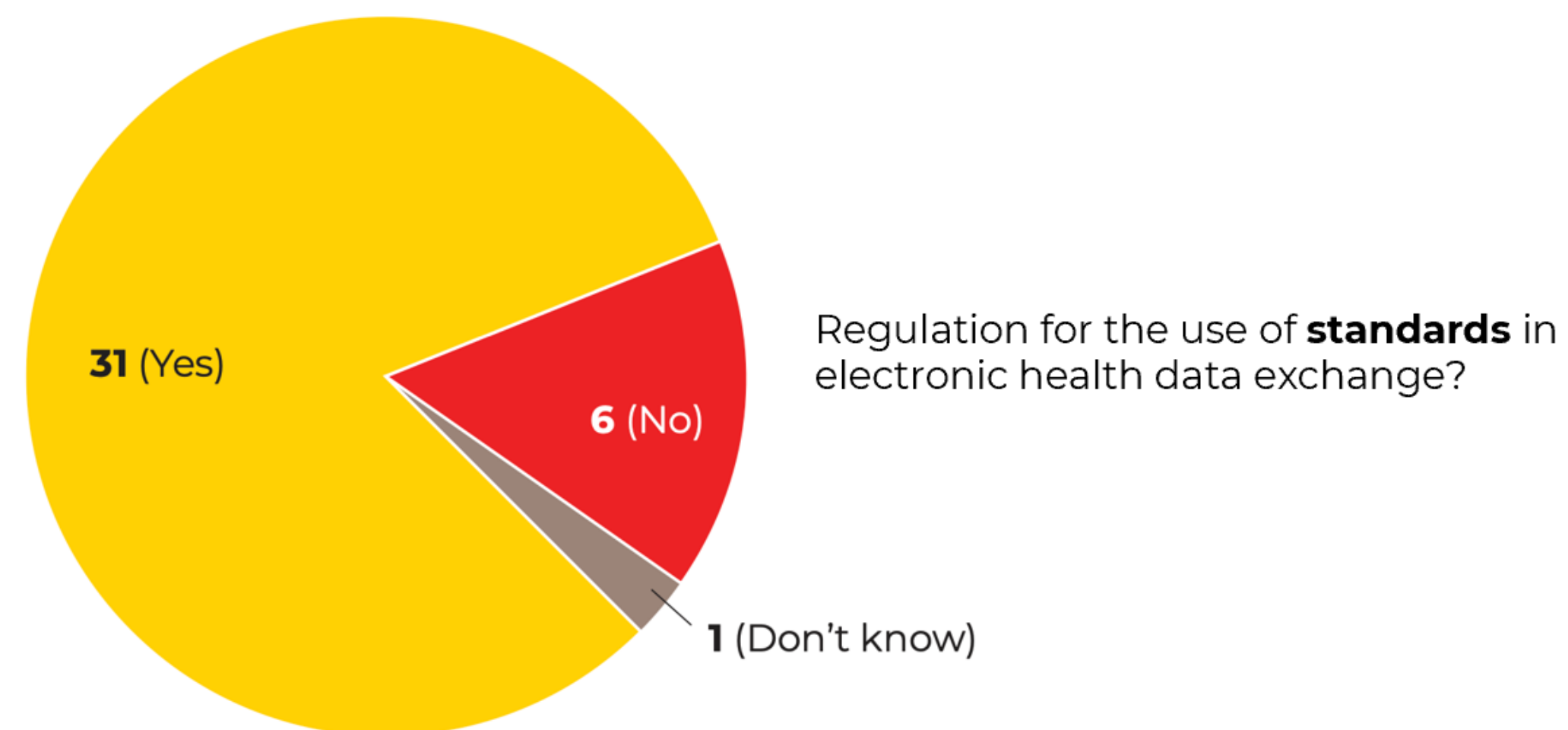
The role of the government

How the government plays a key role in the adoption and implementation of FHIR

- Grants and subsidies (“carrot”)
- Regulation (“stick”)
- Standards Development (“effort”)
- Infrastructure components (“effort”)



FHIR DevDays Survey 2024 “FHIR regulation in your country?”



Germany, the Netherlands, US, EU: more FHIR to come

Government initiatives promoting FHIR - similar developments in other countries

Germany

- FHIR in production: eRezept (gematik) and Arbeitsunfähigkeitsbescheinigung (eAU)
- Secondary use: MII project by TMF
- Legislation: KHZG and ISiK/ISiP
- Simplifier: <https://simplifier.net/jurisdictions/de>

Netherlands

- Major hospital EHR vendors have (limited) support for FHIR
- Government programs requiring FHIR (MedMij, VIPP)
- NL Core set of FHIR profiles based on ZIB logical models maintained by Nictiz
- Simplifier: <https://simplifier.net/jurisdictions/nl>

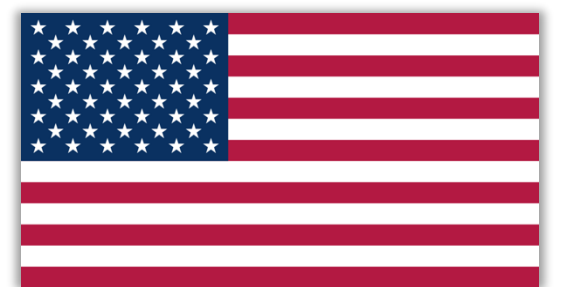
US

- 21st Century Cures Act for care providers
- CMS 0057-F regulation for insurers
- USCDI – US Core Data Set for Interoperability
- NCQA Digital Quality Measures based on the Clinical Quality Language (CQL)
- Simplifier: <https://simplifier.net/jurisdictions/us/>

EU

- EHDS
- European electronic health record exchange format (EEHRxF, or “The Format”)
- MyHealth @ EU (cross-border information exchange)

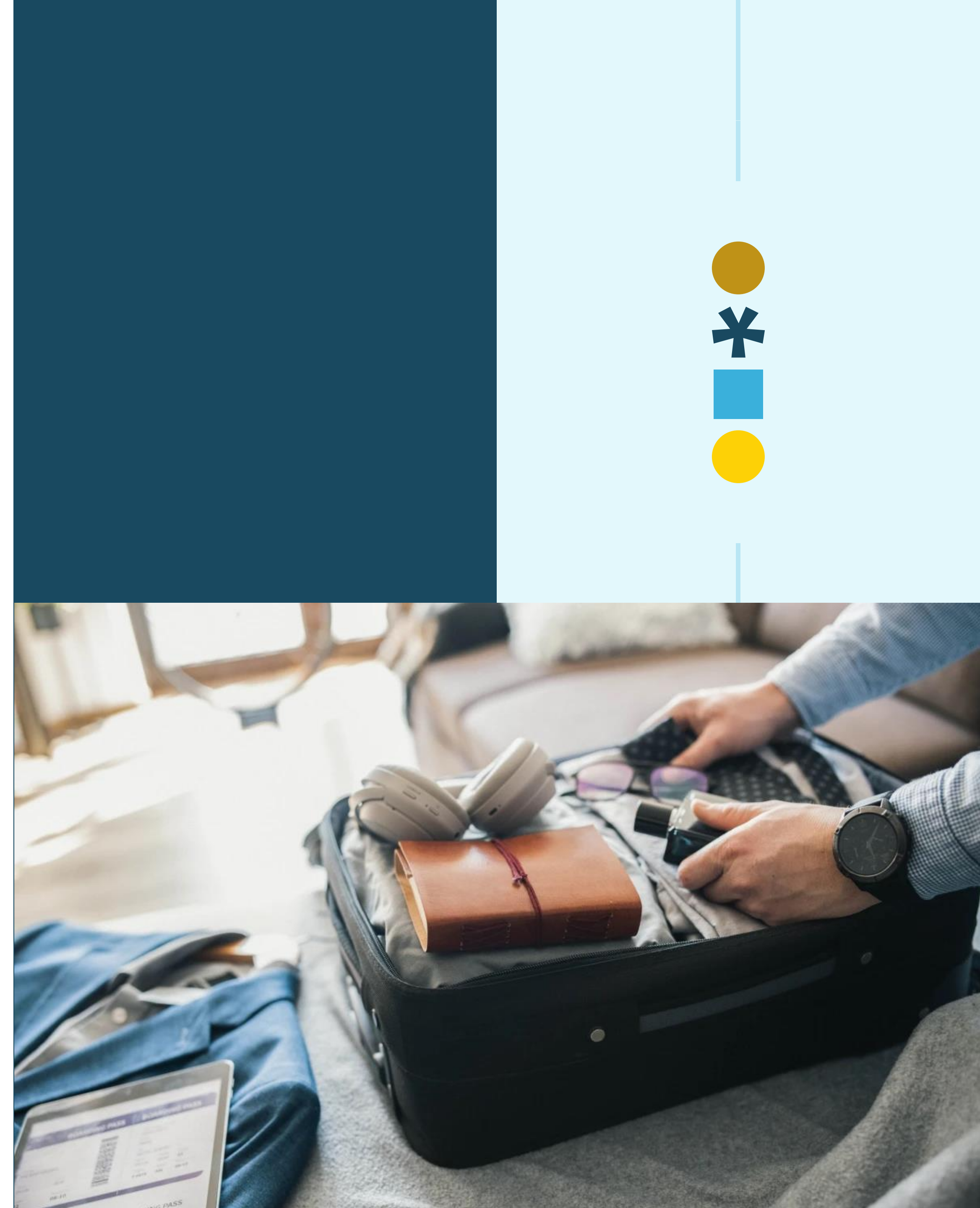
More interoperability,
more FHIR



Getting started

Suggested steps in a FHIR project

1. Identify a use case
 - Business value
 - Deadline
 - Funding
 - Go-live for real users
2. Organize buy-in and participation from stakeholders
3. Agree on an implementation plan
 - Staff training
 - Buy versus Build / Vendor selection
 - Design and test your data specification (FHIR Implementation Guide)
 - Build your data pipelines
 - Implement information security guidelines
 - Design infrastructure and devops (cloud, on-premise)



FHIR Training

<https://fire.ly/training/>

- FHIR Overview Training
 - US time: January 13-15, 2025
 - Central European time: January 27-29, 2025
- *Free* eLearning: FHIR Profiling Introduction Course
- eLearning: HL7 FHIR Summary training

First 3 to email
ward@fire.ly
get the HL7
FHIR Summary
eLearning for
free!

FHIR DevDays 2025, June 3 to 6 in Amsterdam (www.devdays.com)

➤ Call for presentations open until February 1





*Thank you.
Contact me at rien@fire.ly.*