

# **The HL7 International WGM in May in Madrid, and Europe's contribution**

**Webinar, 15 April 2025  
16.00-17.00 CEST**

**Online on Teams**



# The HL7 International WGM in May in Madrid, and Europe's contribution

## *Speaker introductions*

- Presenters:
  - Giorgio Cangioli, HL7 Europe and co-leader of the EHDS Connectathon track
  - Kai Heitmann, HL7 Europe, co-leader of the national EHDS implementation session
  - Roberta Gazzarata, HL7 Europe, co-leader of the European cancer data model session
  - Stefano Dalmiani, Hospitals-on-FHIR session-leader

# Housekeeping

- Your facilitator: Michael Strübin, HL7 Europe
- The webinar will be recorded, slides will be shared in pdf.
- To help ensure a successful webinar please:
  - Stay muted
  - Feel free to use reactions/emojis during the presentations
  - Use the chat to make comments or raise your questions
  - Raise your hand if you'd like to speak
  - If you are invited to speak, please turn on your video and say who you are

# The HL7 International WGM in May in Madrid, and Europe's contribution *Agenda*

- Welcome and introduction
- Overall WGM introduction
- Speakers
  - Giorgio Cangioli, HL7 Europe, EHDS track
  - Kai Heitmann, HL7 Europe, national EHDS implementation session
  - Roberta Gazzarata, HL7 Europe, European cancer data model session
  - Stefano Dalmiani, Hospitals-on-FHIR session
- Audience Q&A

End





## **HL7® FHIR® Connectathon**

Riu Plaza España

Madrid, Spain

Sat-Sun, 10-11 May 2025

## **May Working Group Meeting**

Riu Plaza España

Madrid, Spain

Sun-Fri, 11-16 May 2025

# HL7 International working group meetings (WGMs)

- Held three times per year at varying locations
- Two purposes:
  - To provide HL7 International work groups a chance to meet face to face to work on the standards as well as the opportunity to network with industry leaders from around the world.
  - To provide an invaluable educational resource for the healthcare IT community.
- Plans for Madrid:
  - 25 education sessions
  - > 35 working groups meetings
  - Plenty of networking opportunities



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# The HL7 FHIR Connectathon and the EHDS track

Giorgio Cangioli, HL7 Europe, co-leader of the EHDS Connectathon track

# HL7 FHIR® Connectathon

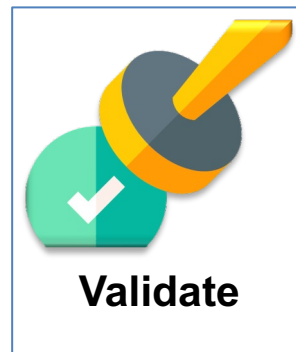
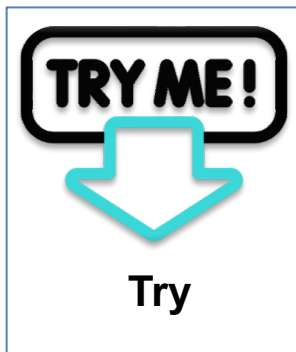
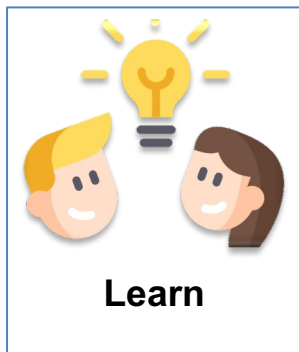
- The HL7 Fast Healthcare Interoperability Resources (FHIR®) Connectathons feature **hands-on HL7 FHIR development and testing.**
- A great opportunity to **work directly with HL7 FHIR and HL7 FHIR IGs developers and senior members** of the HL7 FHIR standards development team.

# HL7 FHIR® Connectathon

- Implementers and developers come together to:
  - **hold technical discussions** that advance the HL7 FHIR specification;
  - **develop FHIR-based solutions**,
  - and **exchange data** with other HL7 FHIR interfaces.
- HL7 FHIR connections are **organized into tracks**:
  - a track is a **topic-focused session** of testing or innovation : a HL7 FHIR implementation guide, a set of resources, a specific use case, a usage scenario

# The EHDS track: why be there !

- To **learn**, **experiment** with, **validate**, and **improve** the **specifications** that have been or are being developed to support the **European Health Data Space**.



# Why to be there..

- Conducting **initial implementation exercises**
- Uncover potential **gaps in development** or in the **understanding** of the **specifications**
- Pinpoint possible **challenges** in their implementations
- Facilitating **informal discussions**,
- Sharing **experiences** and making **questions**
- as well as examining **new adoption scenarios**.



# Focus: priority categories for primary use (art. 14)



Member States may provide by virtue of national law that additional categories of personal

The Commission is empowered to adopt delegated acts <...> by adding, modifying or removing the main characteristics of the priority categories



Medical test results, including laboratory and other diagnostic results and related reports



Discharge report



Patient summary



Medical imaging studies and related imaging reports;



ePrescription/  
eDispensation

# The EHDS FHIR IG ecosystem



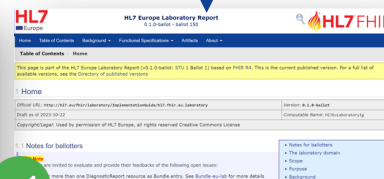
used by

used by



used by

used by



Hospital  
Discharge  
Report



ePrescription  
eDispensation



Patient Summary



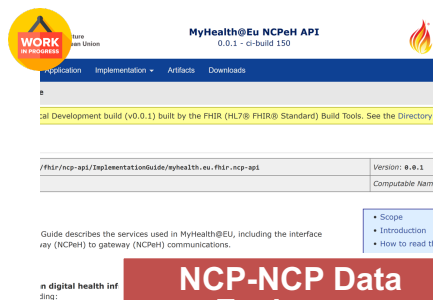
Laboratory  
Results



Medical Imaging  
and reports

# The MyHealth@EU FHIR IGs

For EU Cross-Border



MyHealth@EU NCPeH API  
0.0.1 - q-build 150

Application Implementation Artifacts Downloads

Local Development build (v0.0.1) built by the FHIR (HL7® FHIR® Standard) Build Tools. See the Directory

URL	Version	Computable Name
/fhir/ncp-api/implementationguide/myhealth.eu.fhir.ncp-api	Version: 0.0.1	

Guide describes the services used in MyHealth@EU, including the interface (NCPeH) to gateway (NCPeH) communications.

- Scope
- Introduction
- How to read this

on digital health  
ing:

NCP-NCP Data Exchange



MyHealth@EU Laboratory Report  
0.1.1 - trial-see 130

Functional Specifications Model Map Artifacts Downloads

Health@EU Laboratory Report (v0.1.1: Wave 8) based on FHIR (HL7® FHIR® Standard) R4. This is the current version. See the Directory of published versions

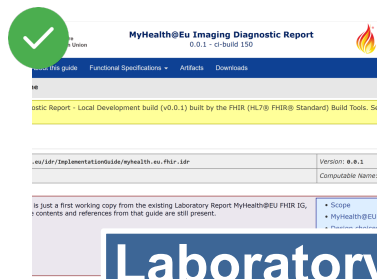
URL	Version	Computable Name
l.eu/fhir/implementationguide/myhealth.eu.fhir-laboratory	Version: 0.1.1	

- Scope
- MyHealth@EU
- Design choices

applied to HL7 FHIR to define how to represent a Laboratory Report for the European coherently with the European eHealth Guidelines (see the European eHealth - Key

applies to laboratory & microbiology, ... , whi  
etics.  
HL7 Europe Laboratory

HDR



MyHealth@EU Imaging Diagnostic Report  
0.0.1 - q-build 150

Functional Specifications Artifacts Downloads

Local Development build (v0.0.1) built by the FHIR (HL7® FHIR® Standard) Build Tools. See the Directory

URL	Version	Computable Name
eu/fhir/implementationguide/myhealth.eu.fhir-ldr	Version: 0.0.1	

is just a first working copy from the existing Laboratory Report MyHealth@EU FHIR IG, contents and references from that guide are still present.

- Scope
- MyHealth@EU

Laboratory



MyHealth@EU Hospital Discharge Report  
0.0.1 - qe-preview 150

Functional Specifications Implementation Artifacts About HL7 EU HDR IG

Large Report - Local Development build (v0.0.1) built by the FHIR (HL7® FHIR® Standard) Build Tools. See the Directory

URL	Version	Computable Name
l.eu/fhir/implementationguide/myhealth.eu.fhir-ldr	Version: 0.0.1	Computable Name: myhealth.eu.fhir-ldr

ed to this version of the guide only as Informative material to collect feedback about

gations please refer to

applied to HL7 FHIR to

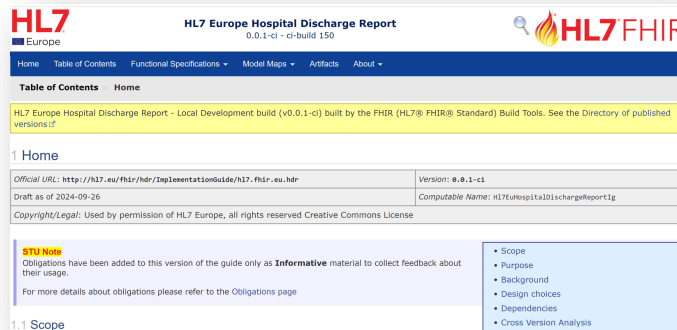
- Scope
- MyHealth@EU

Imaging

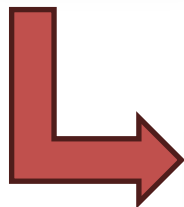
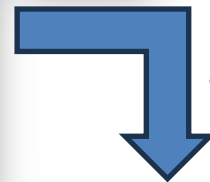
# MyHealth@EU / HL7 EU IGs relationships



Realizes



Specializes



Refines



Realizes

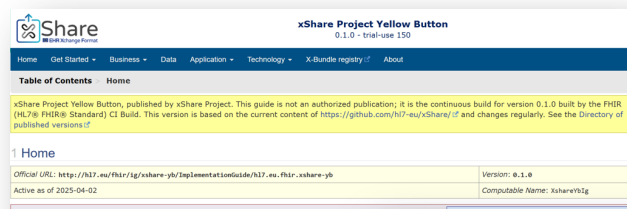


# xShare Project Yellow Button

- Test the EEHRxF by implementing the xShare Yellow Button !



The xShare Yellow Button



## 4.2 Implementable specification

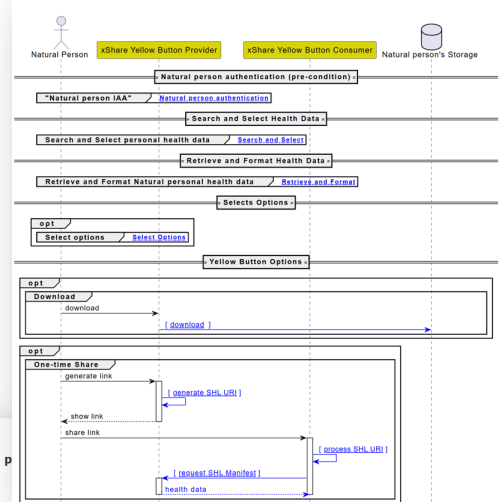
For this version of the xShare Yellow Button the **only technical specifications to p**

<b>xBundle</b>	<b>HL7 FHIR IG</b>
Patient Summary	HL7 International Patient Summary FHIR IG v1.1.0
Laboratory Report	HL7 Europe Laboratory Report FHIR IG v0.1.1
MyHealth@EU Laboratory Report	MyHealth@EU Laboratory Report FHIR IG v0.1.1

Early implementers might be interested in piloting the following on development specifications

<b>xBundle</b>	<b>HL7 FHIR IG</b>
Patient Summary	HL7 Europe Patient Summary FHIR IG (0.1.0-ci-build)
Hospital Discharge Report	HL7 Europe Hospital Discharge Report FHIR IG (0.1.0-ci-build)
Medicine Prescription and Dispense	HL7 EU Medication Prescription and Dispense FHIR IG v0.1.0-ci-build
Digital Imaging Report	HL7 EU Imaging Report FHIR IG v0.1.0-ci-build

## 5.2 xShare Yellow Button realization



# Effective Collaboration Strategies

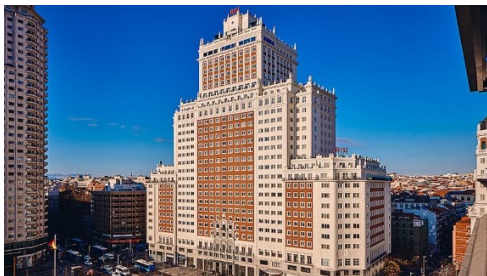
- No pre-defined approach..
- The work could be (self-)organized in sub-groups based on your objectives
  - Per domain: e.g. laboratory; HDR; MPD; EPS; core....
  - Per activity: e.g. testing; learning; discussing;..
- Common break out sessions where everyone is invited to join

# Where to get more

- Confluence HL7 FHIR Connectathon page
  - [2025 - 05 Connectathon 39 - FHIR – Confluence](#)
- Newcomer Orientation - Recording
  - <https://vimeo.com/542197402/8fb80fea04>
- Track description
  - [2025 - 05 EHDS \(European Health Data Space\) - FHIR – Confluence](#)

# Join us !

- Registration page <https://info.hl7.org/may-2025-wgm>



- **Where:** Madrid, Riu Plaza España
- **When:** Saturday, May 10th and Sunday, May 11th  
9:00 AM - 5:00 PM CEST
- **Costs:** from **\$545 to \$840**



HL7 FHIR  
Connectathon  
Only

**Pass for 2 Days**  
**Price: \$840\***

Includes:

- HL7 FHIR Connectathon  
Registration for one person
- Hands-on development & testing
- Meals

\*Standard rate without discounts

**PURCHASE TICKETS**



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- Audience Q&A

End



HL7 Europe Sessions in Madrid

# European Interoperability Specifications for the EHDS: challenges and achievements

Co-leads: Dr Kai Heitmann, Roman Radomski, Sebastian Bojanowski

# European Interoperability Specifications for the EHDS: challenges and achievements



# European Interoperability Specifications for the EHDS: challenges and achievements

- Start: HL7 Europe Working Group meeting in Lisbon  
European Specifications – nationally implemented  
exposing experiences, bottlenecks, challenges and  
lessons learned

Poland  
Sweden  
Austria  
Netherlands  
Norway  
Slovakia

Germany  
Finland  
Estonia  
Czech Republic  
Belgium  
+ non-technical (lawyer) insights

# European Interoperability Specifications for the EHDS: challenges and achievements

- Topics planned
  - **Visualization of FHIR resources**
    - Transition from CDA to FHIR
    - requirement to regulate “human text” on national level
  - **Terminology**
    - Experiences: LOINC as common dictionary for diagnostic services
    - Terminology Server HL7 Europe

# European Interoperability Specifications for the EHDS: challenges and achievements

- Topics planned
  - **Documenting Relationships** between European and National specifications
    - proper model
    - tooling
    - comparability

id	Path	Min	Min.1	Min.2	Min.3	Min.4	Min.5	Min.6
		inpatient	patient-eu-ops	patient-eu-hdr	patient-eu-lab	patient-eu-map	patient-eu	patient-eu-lps
Patient.identifier	Patient.identifier	1	0	0	0	0	0	0
Patient.address	Patient.address	0				0		0
Patient.address	Patient.address		0		0			
Patient.address	Patient.address			0			0	
Patient.birthDate	Patient.birthDate	0	1	0	1	1	0	1
Patient.contact.address	Patient.contact.address	0				0		0
Patient.contact.address	Patient.contact.address		0		0			
Patient.contact.address	Patient.contact.address			0			0	

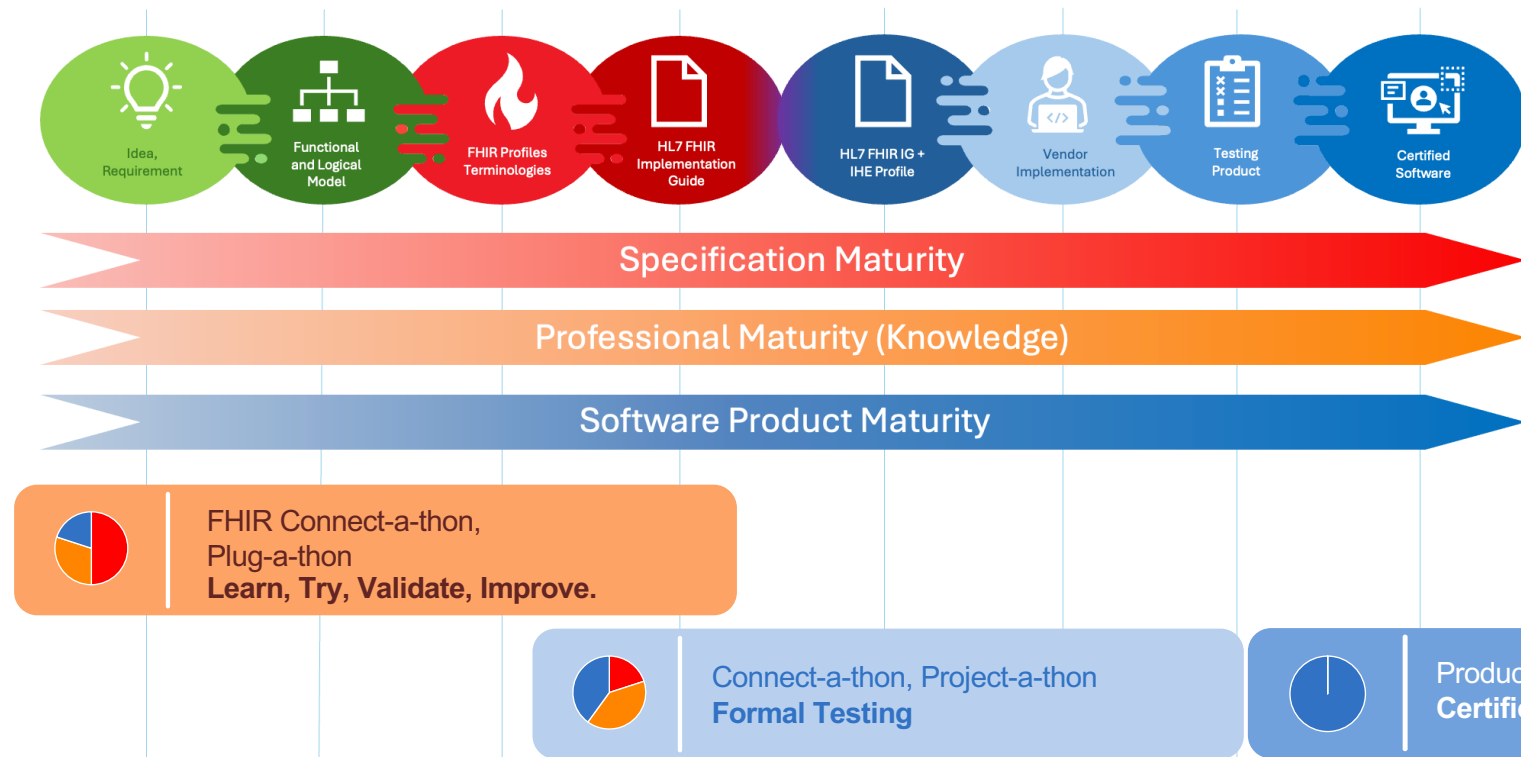
# European Interoperability Specifications for the EHDS: challenges and achievements

- Topics planned
  - **Testing and Validating** interoperability in context of EHDS requirements
    - The specification and testing continuum
    - Collaboration between HL7 Europe and IHE Europe
    - Do you know EURIDICE?

European Interoperability  
Specifications for  
Digital Solutions in Healthcare



# Testing and Validating European Interoperability Specifications





# European Interoperability Specifications for the EHDS: challenges and achievements

- Topics (potential speakers, please contact us)
  - Experiences from reuse
  - Common requirements on HL7 Europe from affiliates
  - How strictly should affiliates harmonize with HL7 Europe
  - How to state conformance?
  - Transition CDA → FHIR
  - Transition to standard code systems and value sets
  - Transition to EHDS
  - Identification of patients and providers

## Room + Time



- Thursday May 15, 2025
  - 1:45 pm – 3:00 pm (Q3)
  - Room: Madrid 1
- 
- Q4: Hospitals on FHIR
  - Room: Madrid 1



# Join us at the HL7 International Working Group Meeting 10-16 May 2025 in Madrid



Photo © stock.adobe.com - rustamank, butenkow



Thank you!

[kai.heitmann@hl7europe.org](mailto:kai.heitmann@hl7europe.org)

**HL7**<sup>®</sup>  
Europe 

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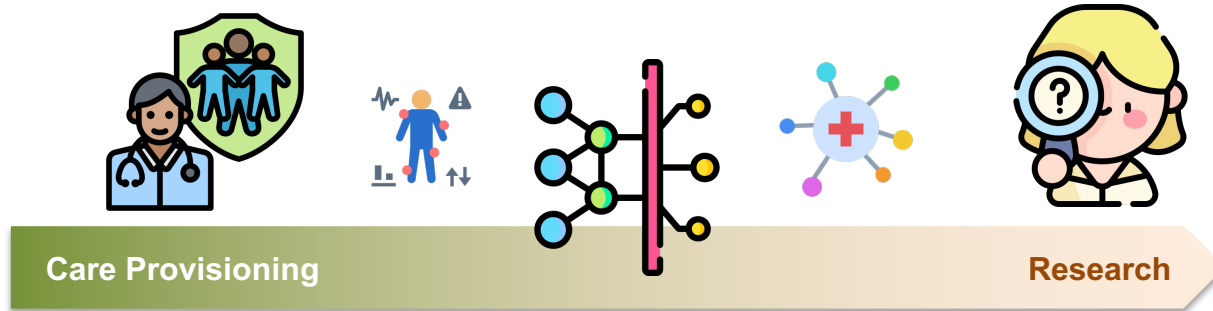
End

# THE EUROPEAN CANCER DATA MODEL SESSION

ROBERTA GAZZARATA, HL7 EUROPE

# Introduction: our dream

A future where **seamless data interoperability transforms cancer care and research**, enabling breakthroughs that improve patient outcomes and empower collaborative innovation across Europe



# Introduction

- WG created during the HL7 Europe WGM 2025
- Based on a survey activity started at HL7 Europe WGM 2024 on the data model adopted by different European and national project on cancer topic.

MEDOC concept		IDEAIRC			
1. Demographics		Present	Description	Code System	N centres out of XX with variable available
	1.1 Date of birth (month)	Yes	It is represented at CancerEpisode.AgeatDiagnosis		
	1.2 Sex	Yes	Patient.sex	OMOP Gender	
	1.3 Weight (with timestamp)	No	We only have Patient.BMI, due to anonymization	SNOMED	
	1.4 Height	No	We only have Patient.BMI, due to anonymization	SNOMED	
	1.5 Healthcare ID (or other unique identifier)	yes	Hospital.name		
	1.6 Legal basis for data processing	No	Not present (for now at least)		
2. Clinical phenotype					
	2.1 Primary cancer diagnosis and comorbidities, typically in International Classification of Disease standards such as ICD10, ICD9 or ICD-O-3	Yes	There is an overarching CancerEpisode to which are associated several Cancer Episode coded in agreement with Athena vocabulary whenever possible	SNOMED	
	2.2 Charlson comorbidity index (derived from 17 comorbidities in 2.1)	yes	Patient.Charlson Comorbidity index	SNOMED	



# Results of the survey

- Different projects → different needs and use cases → data models heterogeneous
- Data availability in involved care facilities EHR is difficult to know
- All projects based on secondary data use
- Some standard vocabularies adopted by different projects
- Redundancy in data model can facilitate the queries for the clinicians
- Fundamental to reconstruct the patient's journey and disease history (patients are not always treated in single hospitals)
- Difficult data mapping from one standard to another (e.g. from OMOP to FHIR).



# Scope and key principles

Data Model  
*agnostic* to the  
type of cancer

Usable across different use cases  
Leveraging on the experience of the European projects working with primary and secondary usage  
Taking into account the availability and usability of reliable data in the EHR systems

Incremental  
approach

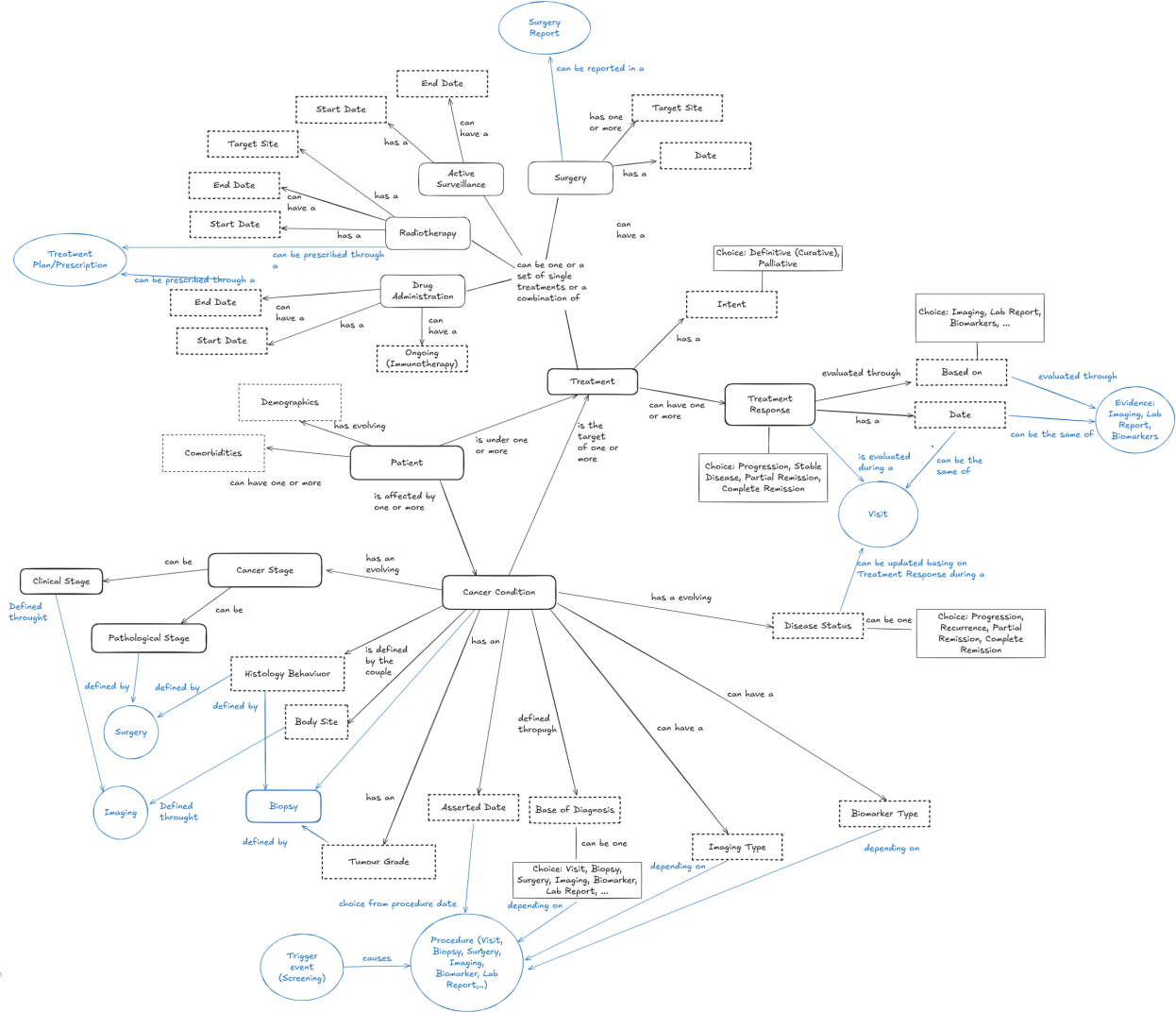
Start small with a minimal core set  
Then extend/enhance through iterations

Standard  
specification  
production

Data model usable by different SDOs to formalize specifications  
HL7 EU will create the *HL7 Europe Cancer Common FHIR Implementation Guide*.  
But sharing the same conceptual and logical model, it could be possible to map data from one standard specification (eg. HL7 FHIR) to another (e.g. OMOP).

# Where we are...

<https://confluence.hl7.org/spaces/HEU/pages/281282385/Cancer+Common+Model+Project+Edition+1>



# Next steps

Work to define the  
*European Cancer  
Common  
Conceptual Model*

Work to define the  
*European Cancer  
Common Logical  
Model*

*HL7 Europe Cancer  
Common FHIR  
Implementation  
Guide*

# Next steps

*minimal Common Oncology Data Elements (mCODE) FHIR Implementation Guide*  
not applicable for our purposes  
(based on US specifications,  
primary data use, patient-  
centred, platform dependent)

Collaborate with mCODE

Try to define an *International Cancer Common Data Model*  
and an *HL7 Int Cancer Common FHIR Implementation Guide*.

# Room + Time



•  **Tuesday 13 May** 

- 9:00-10:30 (Q1)
- 11-12:30 (Q2)
- 13:45-15:00 (Q3)
- 15:30-17:00 (Q4)

•  Room: Retiro

•  ~~560 \$~~ → discount code 280 \$



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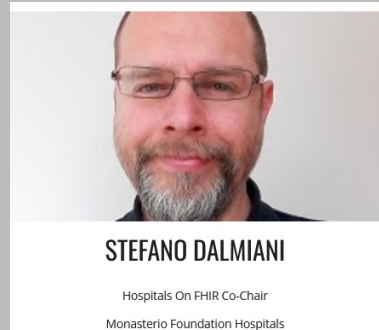
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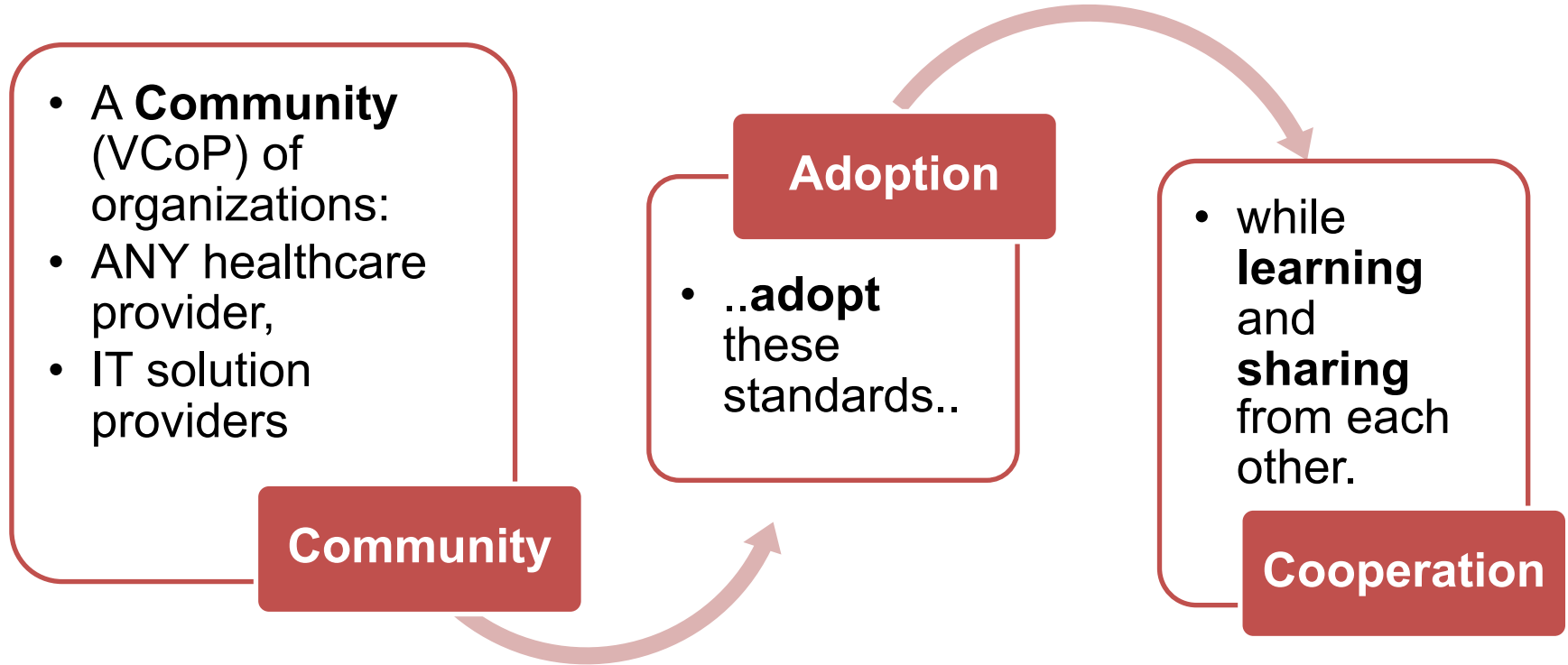


# Hospitals On HL7 FHIR meets EHDS

**Stefano Dalmiani**  
Co-Chair



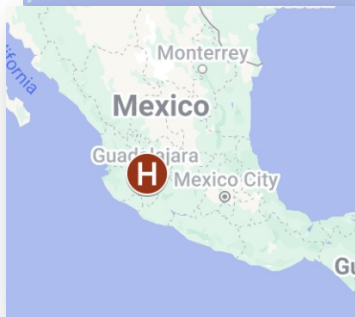
# WHAT – Hospitals-on-FHIR is





# Members and Affiliate Members

120 Healthcare providers  
4 IT companies  
11 Countries



# National Ambassadors

- Active:

- France
- Belgium
- Germany
- Portugal
- Spain
- Italy
- Norway

- In activation

- Ireland
- Greece
- Cyprus



LUC CHATTY



FREDERIC LAURENT



EUGENIA RINALDI

Germany Ambassador  
Charité



GIUEPPE FICO

Spain Ambassador  
UPM



MARIE-ALEXANDRA LAMBOT

Belgium Ambassador  
St.Pierre Hospital  
CSCT



KARLIEN ERAUW

Belgium Ambassador  
Agoria  
HL7 BE



SYLVIA THUN



VICTOR COSTA

Portugal Ambassador



JUSTAS TRINKUNAS

Lithuania Ambassador  
VUL Santaros klinikos



PAULIUS RAGAUSKAS

Lithuania Ambassador  
VUL Santaros klinikos



RICCARDO HAUPT

Italy Ambassador  
Giannina Gaslini Hospital



ANNE MOEN

Norway Ambassador  
University of Oslo

# Hospital on FHIR – Madrid

- Thursday
- May 15<sup>th</sup> 2025
- 15:30 – 17:00 (Q4)
- Room: Madrid 1

## Hospitals on FHIR in the EHDS



# Hospital on FHIR Workshop – Madrid

## Driving interoperability in Digital health Ecosystems

The Hospitals on FHIR initiative of HL7 Europe fosters a mutual learning community of practice, driving interoperability in data sharing and exchange, to advance patient engagement in EHDS ready digital health ecosystems.



# How you can join Hospitals On FHIR

- Go to <https://www.hospitalsonfhir.eu>
- Clic on «Join us» page, in top right menu
- Read the «terms of Reference» document
- Compile this form, linked in the Join page

WELCOME  
*to our community*



### Put Your Organization On the HL7 FHIR Map

FHIR registration Form

dalmiani@ftgm.it [Cambia account](#)

Non condiviso

\* Indica una domanda obbligatoria

Organization/Hospital Name (and group/network) \*

La tua risposta

Organization Address \*

La tua risposta

Organization GPS Coordinates \*

La tua risposta

Organization Description \*

describe your hospital in less than 60 (sixty) characters

La tua risposta

Stage in FHIR Maturity Model (refers to <https://www.hospitalsonfhir.eu/home>) \*

☐ 0 - Interested:

☐ 1 - Aspiring



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# Next steps

- Slides and recording on [www.HL7.tv](http://www.HL7.tv), notification to all registered attendees
- Join HL7 at the next WGM in Madrid, 10-16 May 2025  
<https://info.hl7.org/may-2025-wgm>





Thank you!