

HL7 Europe Overview

Giorgio Cangioli

Technical Lead, Board Member - HL7 Europe

Vice-Chair, Board Member - HL7 Italy

TSC, CDA MG, AEC, Board Member - HL7 International

HL7/IHE Germany WGM – 2023/10/19

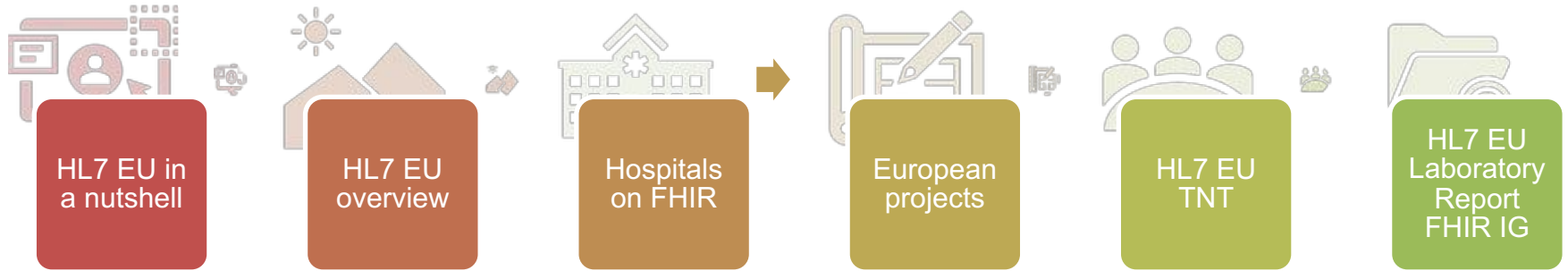


Disclaimer



Any views or opinions expressed in this presentation are those of the author and do not necessarily represent official policy or position of the organizations mentioned.

Agenda



Working Group Meeting FHIR Connectathon



IN A NUTSHELL



HL7 Europe



- Formally, HL7 Europe is a not-for-profit legal entity based in Belgium (official name **HL7 Europe Foundation**) ... *but it is much more than this...*
- ...HL7 Europe has no “paying” members, nevertheless ...

HL7 Europe is a community

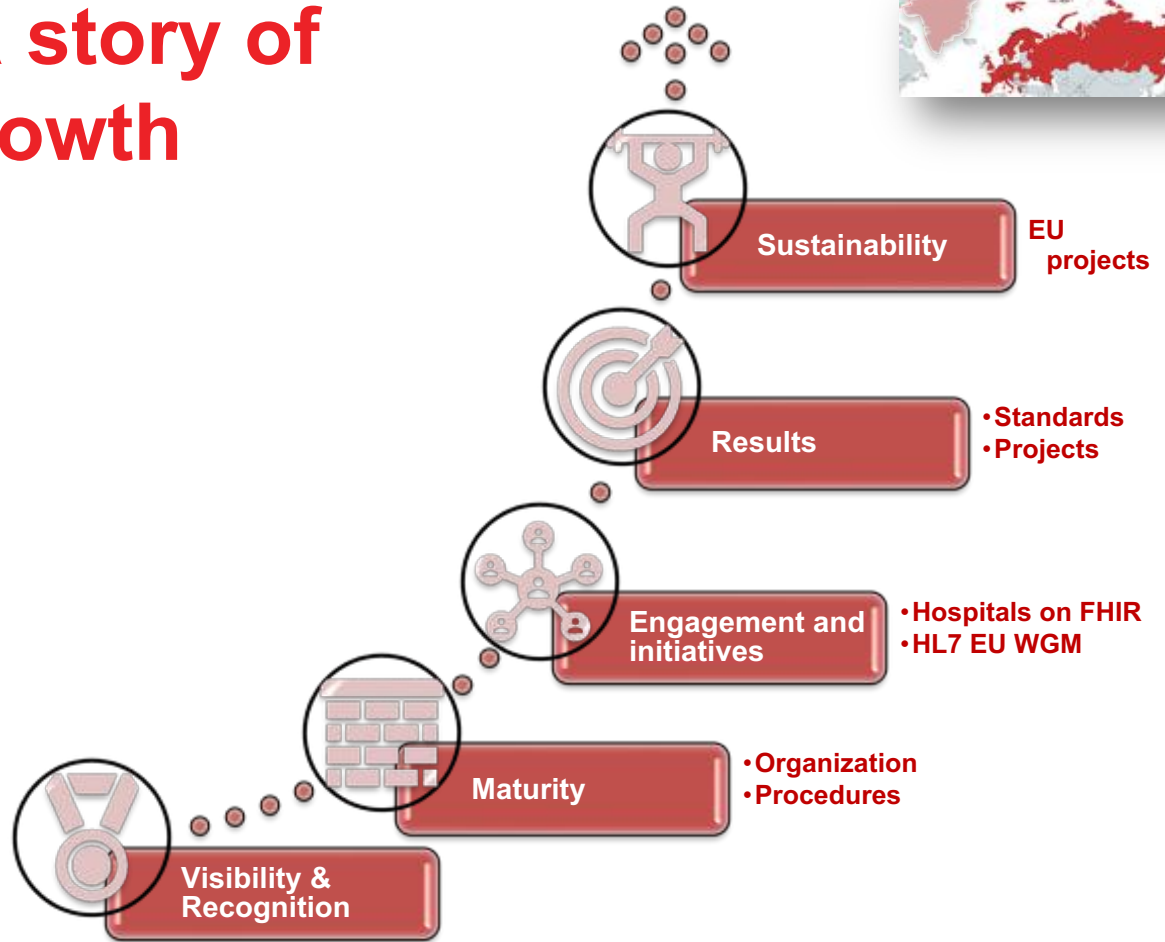
built on the EU HL7 Affiliate members

HL7 Europe

- **Established in 2010**
- **Scope:** WHO Europe Region (including Turkey and Israel)
- **# of HL7 Affiliates:** 22 + Slovakia (final approval next week) + Estonia (on-going)



HL7 Europe: a story of continuous growth



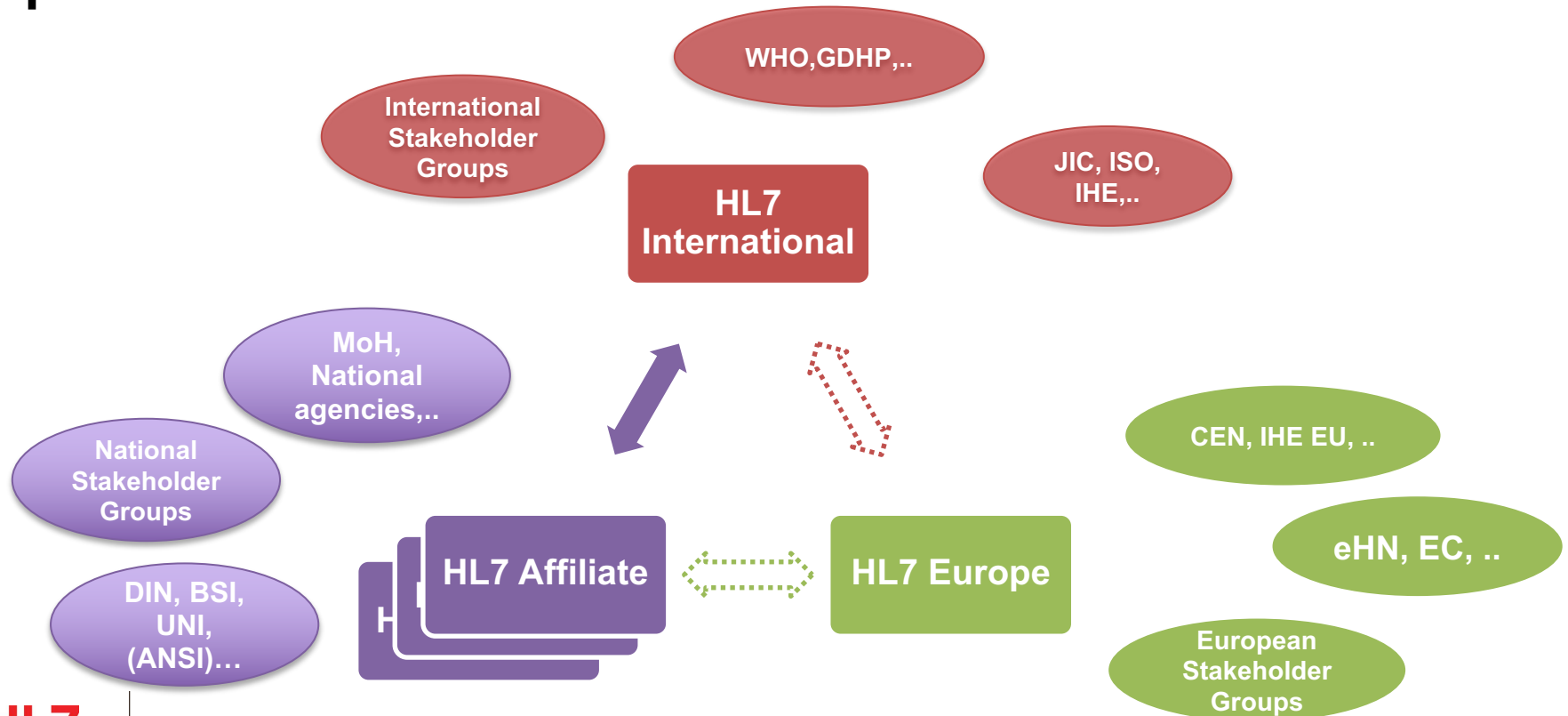
HL7[®]

 Europe

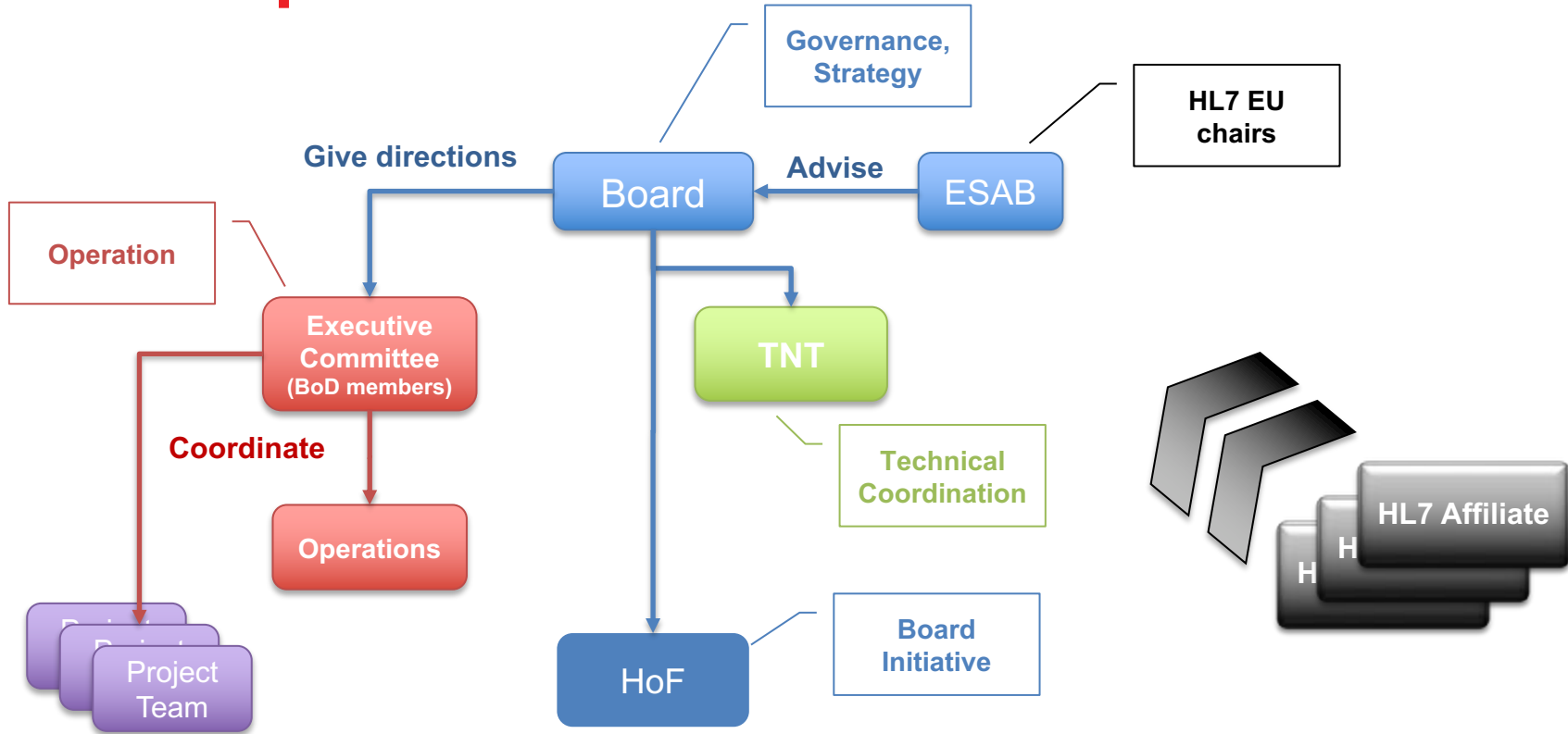
OVERVIEW



The collaboration model



HL7 Europe Structure



HL7 Europe Foundation Board of Directors 2023-2024

HL7 Int. Appointed



Ed Hammond



Andy Trescott



Julia Skapik



Anne Moen

HL7 Int. ex-officio



Mark McDougall



Charles Jaffee



Jens Christian
Villadsen



Line
Andreassen
Sæle



Roeland
Luykx

ESAB Elected



Henrique
Martins



Robert
Stegwee

HL7 EU Appointed



Catherine
Chronaki



Giorgio Canglioli

HL7 EU ex-officio

THE HOSPITALS-ON-FHIR INITIATIVE



European EHRxF: engagement



*HL7 Europe launched network of hospitals and other healthcare provider organizations to **foster** the **adoption** of HL7 FHIR-based interoperability.*

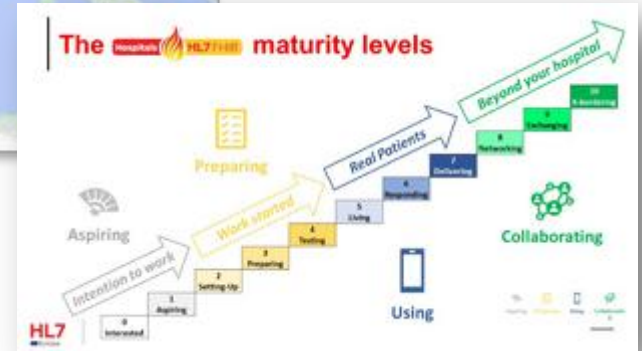
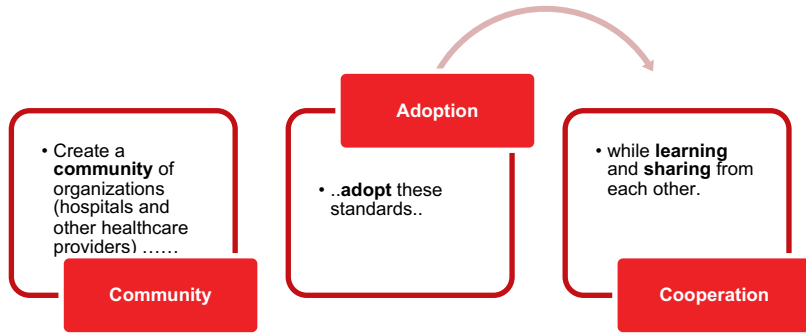
**No
interoperability
without data**



**Enable and
support standard
adoption**

**Not only country-to-country
but cooperation among hospitals**

Standards and European EHRxF



Put your hospital on the map



<https://www.hospitalsonfhir.eu>

Put Your Hospital On the HL7 FHIR Map

FHIR registration Form

*Campo obbligatorio

[Compila modulo](#)

ModuliGoogle Questo modulo è stato creato all'interno di hi7europe.org.

More information, joining Hospitals-on-FHIR, or suggestions – email us info@hospitalsonfhir.eu

THE EUROPEAN PROJECTS



Overview



2023 Active Projects

Oct. 2019 – Dec 2023
Platform for integrated digital solution



Sep 2022 – Aug 2026
Data Space for rare cancers



Jan 2023 – Dec 2024
Accelerate interoperability based on E-EHRxF



Dec 2023 – Nov 2026
Share and effectively use health data within the EHDS



May. 2023 – Mar 2027
Federated AIs for diagnosis of prostate cancer



Dec. 2019 – May 2024
Identification of Medicinal Products (IDMP)



Mar 2021 – Feb 2025
Passport for childhood cancer survivors



Nov 2019 – Oct 2025
Tailored Electronic Product information

Jan 2024 – Dec 2027
Tools for genomic data integration for cardiovascular medicine

NextGen



Jan 2023 - Dec 2026
Environmental Surveillance System

EU Projects and HL7 FHIR

Oct. 2019 – Dec 2023
Platform for integrated digital solution



Sep 2022 – Aug 2026
Data Space for rare cancers



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Accelerate interoperability based on E-EHRxF



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Passport for childhood cancer survivors



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Tailored Electronic Product information

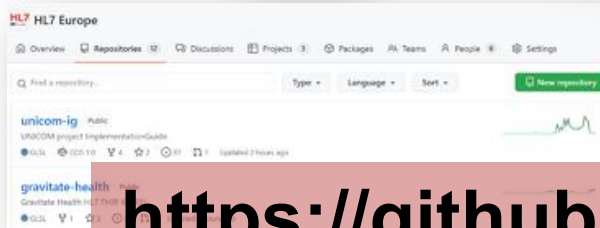
Jan 2024 – Dec 2027
Tools for genomic data integration for cardiovascular medicine

NextGen



Jan 2023 - Dec 2026
Environmental Surveillance System

EU project HL7 FHIR IG sources



<https://github.com/hl7-eu>



Contribution to Standards



Contribution to Standards



Potential future
HL7 EU project



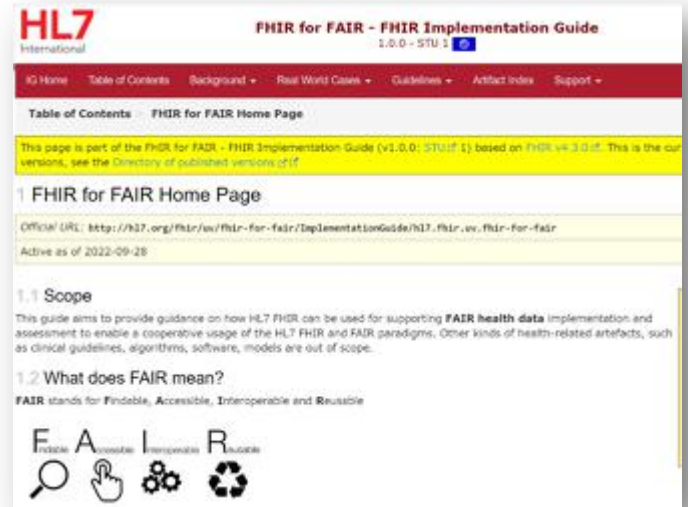
Contribution to Standards



Contribution to Standards



Looking for support !



Contribution to Standards



First HL7 EU IG project



THE TECHNICAL COORDINATION TEAM

Goals



Facilitate the
Technical
collaboration among
affiliates and experts

Promote the
Capacity building

Develop European
Artefacts



What the EU Technical Coordination Team (TNT) is...



- TNT aims to support the HL7 EU goals (technical perspective)
- TNT are voluntary-based activities
- **TNT activities are not supposed to overlap or conflict with any existing HL7 groups or activities at the affiliate and international levels.**

The initial team



Giorgio Cangioli
HL7 Italy



Jens Villadsen
HL7 Denmark



Francois Maçary
HL7 France



Christof Gessner
HL7 Germany



Rik Smithies
HL7 United Kingdom



Jose Costa-Teixeira
HL7 Belgium



Roman Radomski
HL7 Poland



Oliver Egger
HL7 Switzerland



Alexander Henket
HL7 Nederland

The team today



Giorgio Cangilioli HL7 Europe 	Jens Villadsen HL7 Denmark 	Francois Maçary HL7 France 	Nicolas Riss HL7 France 	Christof Gessner HL7 Germany 
Kai Heitmann HL7 Germany 	Gabriel Kleinoscheg HL7 Austria 	Alexander Berler HL7 Greece 	Alexander Mense HL7 Austria 	Kružik Hynek HL7 Czech Republic 
Rik Smithies HL7 United Kingdom 	Leonardo Alcaro HL7 Italy 	Jose Costa-Teixeira HL7 Belgium 	Sebastian Bojanowski HL7 Poland 	Øyvind Aassve HL7 Norway 
João Almeida HL7 Portugal 	Oliver Egger HL7 Switzerland 	Alexander Henket HL7 Nederland 	Daniel Karlsson HL7 Sweden 	

Confluence

The screenshot shows the Confluence interface for the 'HL7 Europe' space. The sidebar on the left contains a tree structure under 'STRUTTURA AD ALBERO DELLA PAGINA'. A red box highlights the 'European Technical Coordination Team (TNT)' item, with a red arrow pointing to a dropdown menu. The main content area features a large 'HL7' logo and a 'Members' section displaying a grid of member profiles with their names and national flags.

STRUTTURA AD ALBERO DELLA PAGINA

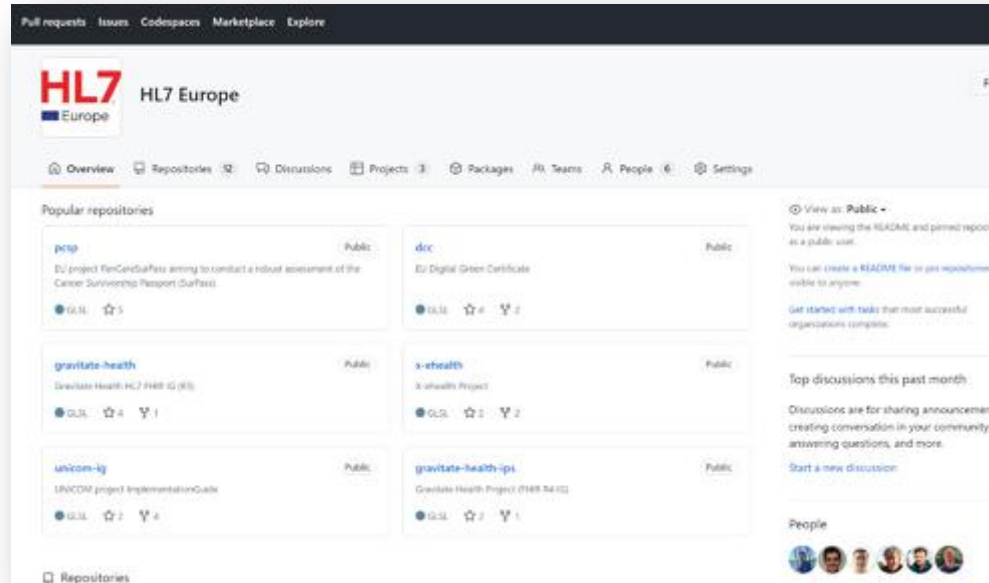
- 2021-01-18 HL7 Europe 10 Year Anniversary Ce
- EU Community
- EU Funded projects
 - European Strategic Advisory Board (ESAB)
 - **European Technical Coordination Team (TNT)**
 - 2021-01-18 HL7 Europe 10 Year Anniversary C
 - EU Community
 - EU Funded projects
 - European Strategic Advisory Board (ESAB)
 - **European Technical Coordination Team (TN**
 - Plans
 - Discussion Topics
 - Artefacts
 - TNT Meetings
 - HL7 EU Projects
 - DMP, Procedures and Guidelines
 - DMP, Procedures and Guidelines (Draft)
 - e-Votes

Members

Giorgio Cangini HL7 Europe	Jens Villadsen HL7 Denmark	Francois Maçary HL7 France
Kai Heitmann HL7 Germany	Gabriel Kleinscheg HL7 Austria	Alexander Berler HL7 Greece
Rik Smithies HL7 United Kingdom	Leonardo Alcaro HL7 Italy	Jose Costa-Teixeira HL7 Belgium

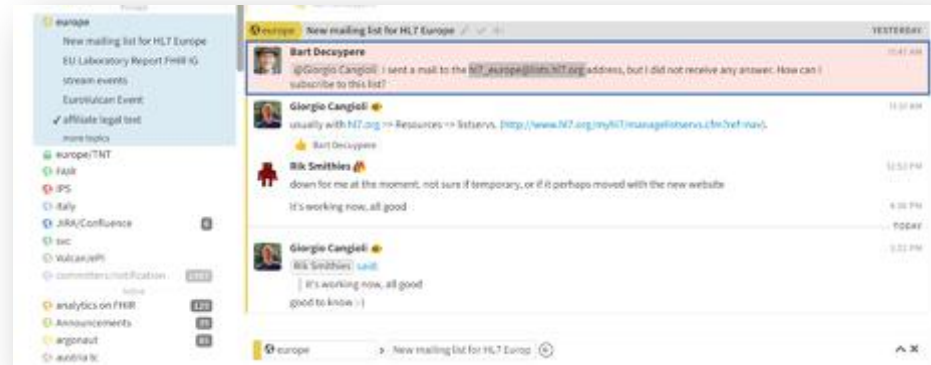
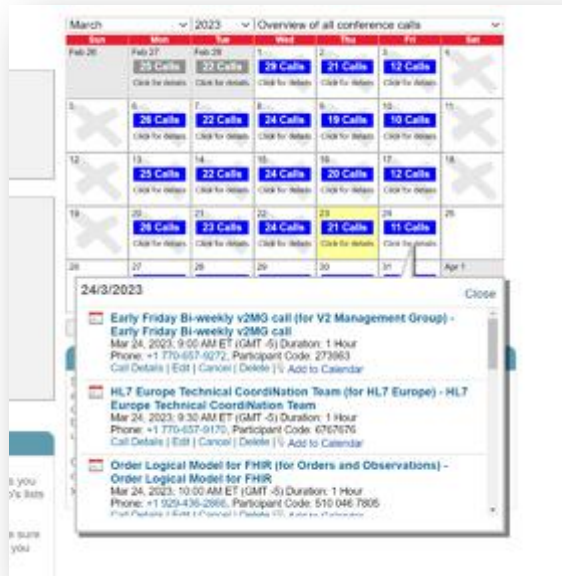
<https://confluence.hl7.org/display/HEU/HL7+Europe>

<https://github.com/hl7-eu>



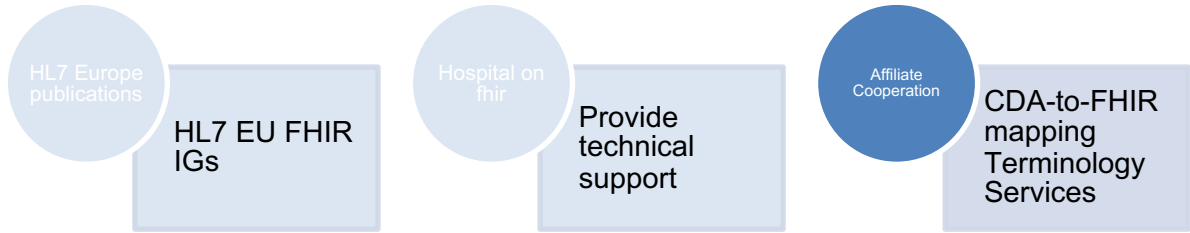
Calendar, public mailing list and chat

<https://chat.fhir.org/#narrow/stream/242580-europe>



hl7_europe@lists.hl7.org

Areas of interest



Virtual Workshop
April 28th



Topics



Virtual Workshop April 28th

Agenda

- Welcome, announcements and short introduction
- National experiences on CDA to FHIR mapping
 - Austria (ELGA) - Gabriel Kleinoscheg
 - Estonia (TEHIK) - Rutt Lindström and Igor Bossenko
 - Italy (DTD) - Stefano Micocci, Leonardo Alcaro and Andrea Zucchelli.
- Open discussion and next steps

HL7 Europe | XpandDH | European Union



Implementation Guides Mapping



Webinar/Meeting with technical representative from affiliates



DMP, Procedures, governance

More than 100 participants !



Follow up contacts among countries



Request to organize other meetings

Topics

Tools

Implementation Guides Mapping

Support to affiliates

Webinar/Meeting with technical representative from affiliates

TNT Governance

DMP, Procedures, ... governance

Capacity building: Development of HL7 FHIR IG (BE/PT)

1 Step

Organize an open workshop providing an overview of the process and tools for designing, develop and publish FHIR IGs

Next steps

Organize focused workshops on specific topics (e.g., Tools; Templates, Publication; Functional Requirements / LM; Testing Scripts; Model Mapping Representation,..)

Two targets:

- Non-Technical / Newbies
- HL7 FHIR IG developers



Topics



HL7 EU FHIR IGs



Provide technical support



CDA-to-FHIR mapping
Terminology Services

Created a small task force (EE; CZ, SE) aiming to promote the cooperation among EU countries on Terminology Services.

- 1st step: Collect countries' experiences with terminology services, and their current state of play.
(<https://confluence.hl7.org/display/HEU/Survey+on+terminology+services>)
- Planned for the end of 2023, it would include HL7 affiliates in Europe and eHealth Network representatives to make sure we also reach the non-affiliates.

Laboratory Report FHIR IG

HL7 Europe publications

HL7 EU FHIR IGs

Hospital on Inir

Provide technical support

Affiliate Cooperation

CDA-to-FHIR mapping Terminology Services

European EHRxF



Medical Imaging and reports



Laboratory Results



Hospital Discharge report



Patient Summary



ePrescription

HL7 Europe Laboratory Report
0.1.0 - 0-bund 150

Home | Table of Contents | Background | Functional Specifications | Artifacts | About

Table of Contents | Home

HL7 Europe Laboratory Report, published by HL7 Europe. This is not an authorized publication; it is the continuous build for version 0.1.0. This version is based on the current content of <https://github.com/HL7-eu/laboratory-ig> and changes regularly. See the Directory of published versions if

1 | Home

Official URL: https://hl7.eu/fhir/Laboratory/ImplementationGuide/HL7.EU.Laboratory	Version: 0.1.0
Draft as of: 2023-10-11	Computable Name: HL7.LaboratoryIG
Copyright/Legal: Used by permission of HL7 Europe, all rights reserved Creative Commons License	

1 | Notes for balloters

- Notes for balloters
- Laboratory domain
- Scope
- Purpose
- Background

Balloters are invited to evaluate and provide their feedbacks of the following open issues:

- Allow for more than one DiagnosticReport resource as Bundle entry. See [Bundle-eu-lab](#) for more details.

Weekly calls:
alternate technical and
functional/terminology meetings

Good and qualified attendance
(including myHealth@EU
representatives)



THE EU LABORATORY REPORT FHIR IG

HL7 Europe

HL7 Europe Laboratory Report
0.1.0 - c-build 130

HL7 FHIR

Home Table of Contents Background Functional Specifications Artifacts About

Table of Contents - Home

HL7 Europe Laboratory Report, published by HL7 Europe. This is not an authorized publication; it is the continuous build for version 0.1.0. This version is based on the current content of <https://github.com/hl7-eu/laboratory/ig> and changes regularly. See the [Directory of published versions/ig](#).

Home

Official URL: http://hl7.eu/fhir/laboratory/ImplementationGuide/hl7.fhir.eu.laboratory	Version: 0.1.0
Draft as of: 2023-10-11	Computer Name: HCTULaboratory14

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1.1 Notes for balloters

Note
Balloters are invited to evaluate and provide their feedbacks of the following open issues:

- Allow for more than one DiagnosticReport resource as Bundle entry. See [Bundle-eu-lab](#) for more details.

- Notes for balloters
- Laboratory domain
- Scope
- Purpose
- Background

Why and Why now

European
EHRxF



Medical Imaging
and reports



Laboratory Results



Hospital Discharge
report



Patient Summary



ePrescription

EHDS - Art 5 Priorities

**Common rules for
representing a
Laboratory Report
in the European
context**



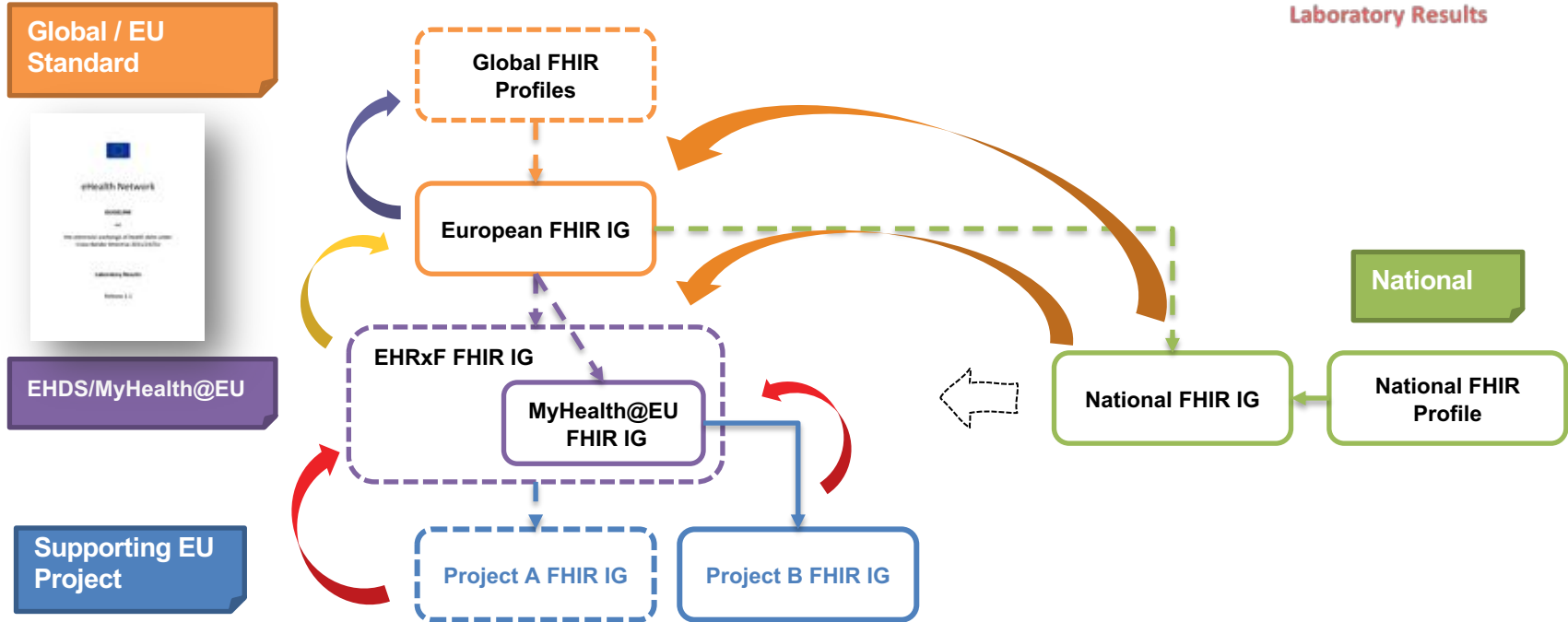
**Facilitate the
harmonization
among the national
initiatives**

**Support the
development of
the European-
EHRxF**

Layered Specifications



Laboratory Results



Layered Specifications: a concrete example



Layered Specifications: a concrete example

CH ELM (R4)
1.0.0-trialuse - trial-use

Home Laboratory Report Use Case Guidance Profiles Extensions Terminology API Artifacts

Table of Contents Home

This page is part of the Observations of notifiable communicable infectious diseases (v1.0.0-trialuse: STU 1 Draft) based on FHIR R4. This is the current published version. For a full list of available versions, see the Directory of published versions.

1 Home

Official URL: <http://fhir.ch/ig/ch-elm/ImplementationGuide/ch.fhir.ig.ch-elm>

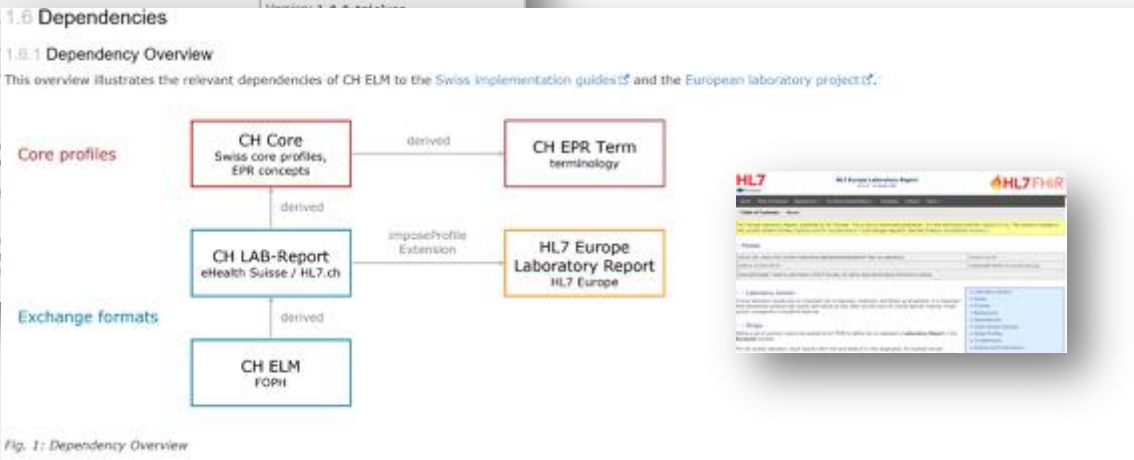
Draft as of 2023-09-13

Copyright/Legal: CC0-1.0

1.1 Introduction

CH ELM is a project of the Swiss Federal Office of Public Health (FOPH), Communicable Disease Laboratories to send their observations of notifiable communicable infectious diseases to its created as a specialized Clinical Document based on the HL7® FHIR® standard. This FHIR a FHIR RESTful web API endpoint. CH ELM derives from the Swiss implementation guides project (see graphical overview).

The expected content of the FHIR document, based on the ordinance of the Federal Office of Public Health (FOPH), is defined in the logical model. A mapping shows how to access the data from the FHIR documentation for specific topics can be found on the guidance page and the use cases (DU) with respective examples for specific organisms.



Plan



The STU ballot package is ready !



STU ballot November (everyone is invited to comment)



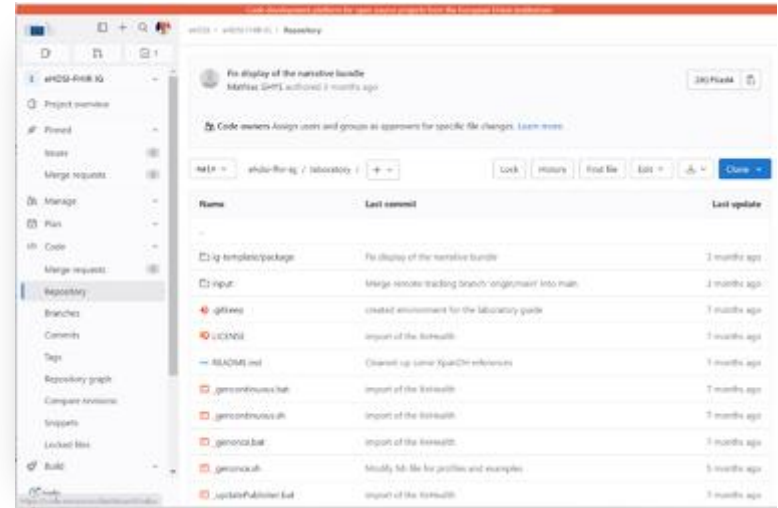
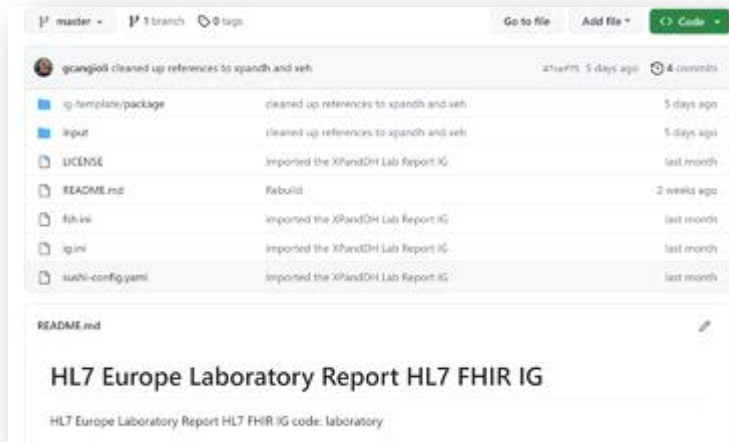
STU publication by the end of 2023



FHIR Connect-a-thon January 2024, Athens

Source files: GitHub

<https://github.com/hl7-eu/laboratory>



<https://code.europa.eu/ehdsi/ehdsi-fhir-ig/-/tree/main/laboratory>

Current build

<https://build.fhir.org/ig/hl7-eu/laboratory/>

A proof of concept.
It defines only the diffs (e.g. Value Set binding, subject only as identified human beings;...)

HL7 Europe Laboratory Report
6.1.2 - ci-build 159

Home | Table of Contents | Background | Functional Specifications | Articles | Roadmap

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HL7 Europe Laboratory Report, published by HL7 Europe. This is not an authorized publication, it is the continuous build for version 6.1.2. This version is based on the current content of <https://github.com/HL7-eu/laboratory> and changes regularly. See the [Directory of published versions](#) if

1 Home

Official URL: <http://hl7.eu/fhir/laboratory/implementationguide/6.1.2/eu-laboratory> | Version: 6.1.2
Draft as of 2023-09-01 | Computable Name: HL7EuropeLabRpt

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1.1 Notes for balloters

Balloters are invited to evaluate and provide their feedbacks of the following open issues:

- Allow for more than one DiagnosticReport resource as Bundle entry. See [Bundle as table](#) for more details
- Allow Commission to have as section entry the DiagnosticReport resource. See [Commission as table](#) for more details
- Adoption of obligations. See the [Obligations](#) page for more details

- Notes for balloters
- Laboratory domain
- Scope
- Purpose
- Background
- Dependencies
- Cross Version Analysis
- Global Profiles
- Statements
- Authors and Contributors

1.2 Laboratory domain

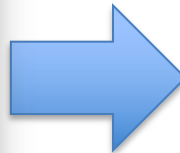
Clinical laboratory results play an important role in diagnosis, treatment, and follow-up of patients. It is important that laboratories produce high quality test results as they often are the basis for clinical decision making. Proper quality management is therefore essential.

1.3 Scope

Define a set of common rules to be applied to HL7 FHIR to define how to represent a **Laboratory Report** in the **European** Context.

This IG covers laboratory result reports across the care fields of in-vitro diagnostics, for example clinical biochemistry, haematology, immunohaematology, microbiology, immunology, while leaving out some specialized laboratory domains requiring specialized reporting structure like histopathology or medical genetics.

This IG covers test results performed by clinical laboratories.



MyHealth@EU Laboratory Result Reports
6.0.1 - ci-build 150

Home | Table of Contents | Examples | Articles | Downloads

Table of Contents Home

MyHealth@EU Laboratory Result Reports - Local Development build (v0.0.1). See the [Directory of published versions](#) if

1 Home

Official URL: <http://myhealth.eu/fhir/laboratory/implementationguide/myhealth.eu.fhir.Laboratory> | Version: 6.0.1
Draft as of 2023-08-30 | Computable Name: MyHealth@EULaboratoryRpt

1.1 Scope

This is the HL7 FHIR Implementation Guide for the MyHealth@EU Proof Of Concept on the FHIR technology. It is containing the FHIR resources needed for the Laboratory Result Report Use Case.

The specification herewith documented is a demo working specification, and may not be used for any implementation purposes. Its validity can be inferred from the use or misuse of this specification, or its consequences.

1.2 The project

This project defines the clinical document specifications for the Laboratory Result Report clinical documents using the FHIR technology.

The Use Case originates from the Change Proposal produced by the X-eHealth project/MyHealth@EU New Use Case Workgroup, and the details are available in the corresponding Change Proposal: CP-eHealthDSI-071: Implement the new service Laboratory Result Report (corresponding to the [Issue 8](#) of MyHealth@EU).

The corresponding eNH Guidelines: eNH Laboratory Result Guidelines (release 1) are available here: https://health.ec.europa.eu/publications/files/laboratory-result-guidelines-release-1_en

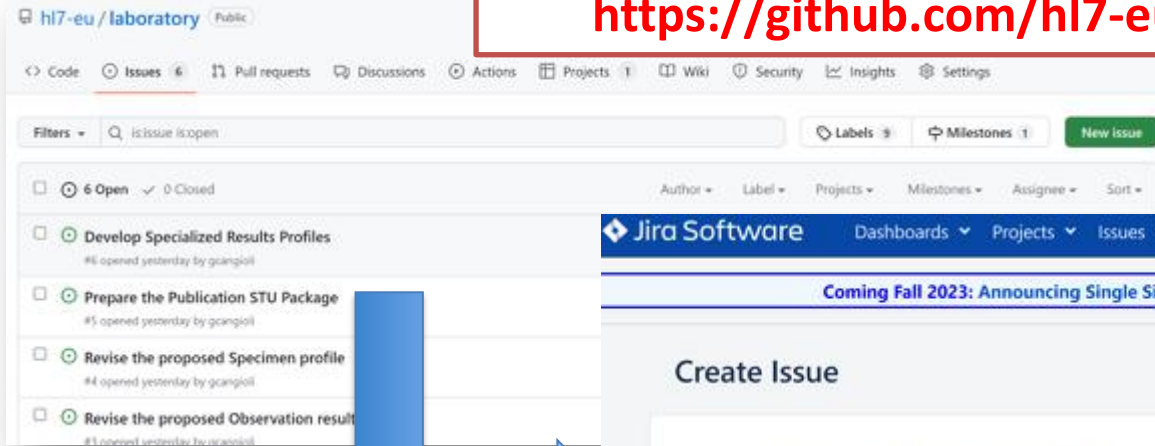
Contents:

- Scope
- The project
- Dependencies
- Cross Version Analysis
- Global Profiles
- Authors and Contributors

<https://fhir.ehdsi.eu/laboratory/>

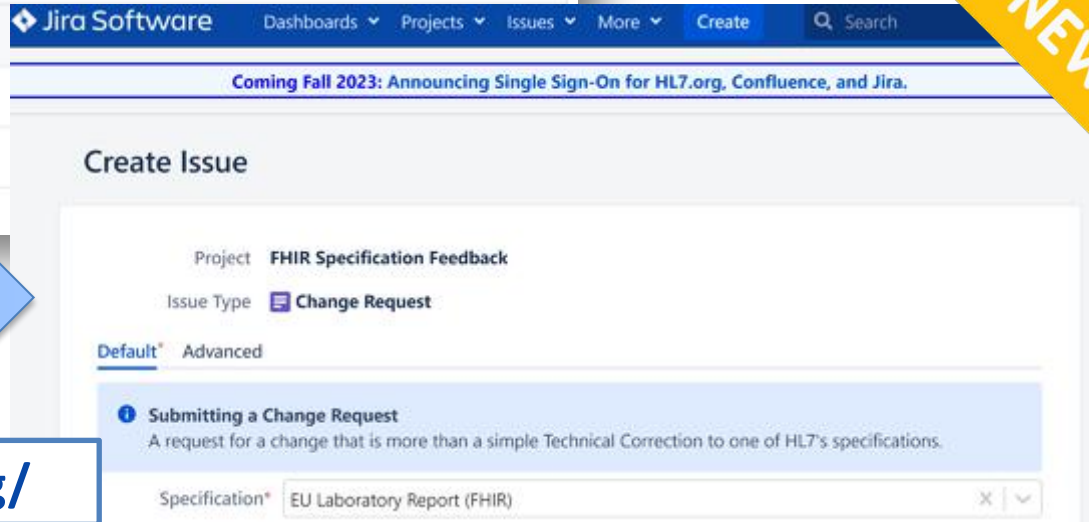
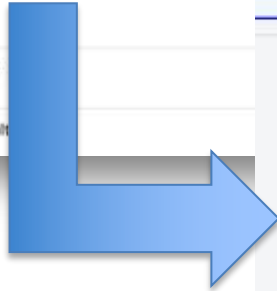
Issue tracking

<https://github.com/hl7-eu/laboratory/issues>



A screenshot of the GitHub repository page for hl7-eu/laboratory. The page shows a list of issues under the 'Issues' tab. The issues listed are:

- 6 Open, 0 Closed
- Develop Specialized Results Profiles (#6 opened yesterday by goangiol)
- Prepare the Publication STU Package (#5 opened yesterday by goangiol)
- Revise the proposed Specimen profile (#4 opened yesterday by goangiol)
- Revise the proposed Observation result (#3 opened yesterday by goangiol)



A screenshot of the Jira Software 'Create Issue' form. The form is titled 'Create Issue' and shows the following details:

- Project: FHIR Specification Feedback
- Issue Type: Change Request
- Default* Advanced
- Submitting a Change Request: A request for a change that is more than a simple Technical Correction to one of HL7's specifications.
- Specification*: EU Laboratory Report (FHIR)



<https://jira.hl7.org/>

Calendar, public mailing list and chat

<https://chat.fhir.org/#narrow/stream/242580-europe>

March 2023 Overview of all conference calls

Sun	Mon	Tue	Wed	Thu	Fri	Sat
Feb 26	Feb 27	Feb 28	1	2	3	4
25 Calls	22 Calls	29 Calls	21 Calls	12 Calls		
5	6	7	8	9	10	11
28 Calls	22 Calls	24 Calls	19 Calls	10 Calls		
12	13	14	15	16	17	18
25 Calls	22 Calls	24 Calls	20 Calls	12 Calls		
19	20	21	22	23	24	25
28 Calls	23 Calls	24 Calls	21 Calls	11 Calls		
26	27	28	29	30	31	Apr 1

24/3/2023

- Early Friday Bi-weekly v2M3 call (for V2 Management Group) - Early Friday Bi-weekly v2M3 call**
Mar 24, 2023, 9:00 AM ET (GMT -5) Duration: 1 Hour
Phone: +1 770-657-9272, Participant Code: 273963
Call Details | Edit | Cancel | Delete | % Add to Calendar
- HL7 Europe Technical Coordination Team (for HL7 Europe) - HL7 Europe Technical Coordination Team**
Mar 24, 2023, 9:30 AM ET (GMT -5) Duration: 1 Hour
Phone: +1 770-657-9170, Participant Code: 6767676
Call Details | Edit | Cancel | Delete | % Add to Calendar
- Order Logical Model for FHIR (for Orders and Observations) - Order Logical Model for FHIR**
Mar 24, 2023, 10:00 AM ET (GMT -5) Duration: 1 Hour
Phone: +1 520-430-2666, Participant Code: 510 046 7805
Print | Publish | Edit | Cancel | % Add to Calendar

new mailing list for HL7 Europe

EU Laboratory Report FHIR IG
stream events
EuroVidcan Event
affiliates legal text
more topics

europa

New mailing list for HL7 Europe

Bart Decuyperre
@Giorgio Cangini | I sent a mail to the hl7_europe@lists.hl7.org address, but I did not receive any answer. How can I subscribe to this list?

Giorgio Cangini
usually with [HL7.org](http://www.hl7.org) => Resources => Listservs (<http://www.hl7.org/org/HL7/management/subscribe.html>)

Bart Decuyperre
Rick Smithies
down for me at the moment, not sure if temporary, or if it perhaps moved with the new website
It's working now, all good

Giorgio Cangini
Rick Smithies said
It's working now, all good
good to know :)

HL7EU

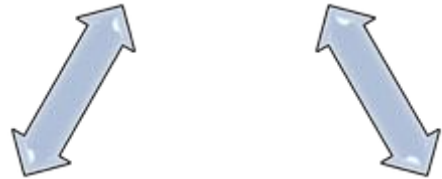
EDIT hl7_europe (Primary List)

hl7_europe@lists.hl7.org



**HL7 FHIR
Logical
Models**

The data set



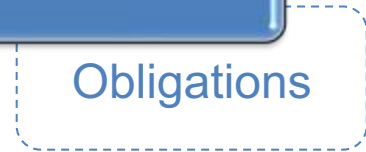
How data are represented in HL7 FHIR

Models to Profiles Mapping



HL7 FHIR Profiles

How to use HL7 FHIR



Guideline data set formalization



4 LABORATORY RESULT DATASET

The datasets indicated in the following tables are considered relevant for patient safety and the provision of adequate level of care both at cross border and national level.

It is up to each implementation project to decide on the conformity and cardinality (i.e. data elements required or optional and number of repetitions), unless specifically stated.

Implementation projects need to make a final decision on mandatory and/or required (null allowed) elements.

4.1 Report header

Field	Field description	Preferred Code System
A.3 Report header data elements		
A.3.3 Identification of the patient/subject		
A.1.1.1	Family name/surname The family name/surname/last name of the patient. This field can contain more than one element or multiple fields could be present.	
A.1.1.2	Given name The given name/first name of the patient (also known as forename or first name). This field can contain more than one element.	
A.1.1.3	Date of birth The date of birth of the patient (ISO TS 22225). As age of the patient might be important for correct interpretation of the test result values, complete date of birth should be provided.	Complete date, without time, following the ISO 8602
A.1.1.4	Personal identifier An identifier of the patient that is unique within a defined scope. Example: National ID (birth number) for Czech patient. Multiple identifiers could be provided.	



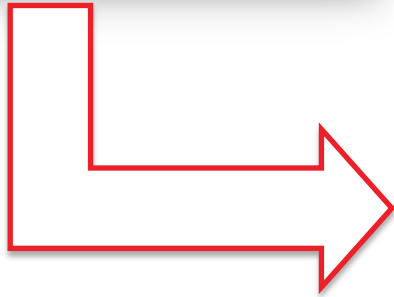
Logical Model

LabReport	0..*	Base	Laboratory Report
header	1..1	BackboneElement	A.1 Report header data elements
subject	1..1	Subject	A.1.1 - A.1.2 Patient/subject
payer	0..1	Payer	A.1.3 Health insurance and payment information
informationRecipient	0..1	Recipient	A.1.4 Information recipient
author	0..*	Author	A.1.5 Author
legalAuthenticator	0..*	LegalAuthenticator	A.1.6 Legal authenticator
validator	0..*	Validator	A.1.7 Result validator
metadata	1..1	BackboneElement	A.1.8 Laboratory report metadata
type	1..1	CodeableConcept	A.1.8.1 Document type
status	1..1	CodeableConcept	A.1.8.2 Document status
dateTime	1..1	dateTime	A.1.8.3 Report date and time
title	0..1	string	A.1.8.4 Document title
custodian	0..1	BackboneElement	A.1.8.5 Report custodian
order	0..*	Order	A.2-A.3 Order
specimen	0..*	SpecimenLab	A.4 Specimen information
result	0..*	Result	A.5 Results data elements

HL7 FHIR Logical Models

Models to Profiles Mapping

HL7 FHIR Profiles



Guideline data set formalization



Group 1 Mapping from A1.1, A1.2 - Subject of care to Patient: Identified Person

Source Code	Relationship	Target Code
Subject.identification (A.1.1 Identification of the patient/subject)	is related to	Patient
Subject.identification.familyName (A.1.1.1 Familyname/surname)	is equivalent to	Patient.name.family
Subject.identification.givenName (A.1.1.2 Given name)	is equivalent to	Patient.name.given
Subject.identification.dateOfBirth (A.1.1.3 Date of birth)	is equivalent to	Patient.birthDate
Subject.identification.identifier (A.1.1.4 Personal identifier)		
Subject.identification.gender (A.1.1.5 Gender)		
Subject.addressTelecom (A.1.2 Patient/subject related contact information)		
Subject.addressTelecom.address (A.1.2.1 Address)		
Subject.addressTelecom.telecom (A.1.2.2 Telecom)		



Name	Flags	Card.	Type	Description & Constraints
Patient			PatientUvIps	
identifier		0..*		Patient identifiers
name	C	1..*	HumanNameEu	<p>Name of a human - parts and usage</p> <p>eu-pat:1: Patient.name.given, Patient.name.family</p> <p>Text representation of the full name.</p>
text		0..1	string	
family		0..1	string	
given		0..*	string	
telecom		0..*	ContactPoint	
gender		0..1	code	
address	C	0..*	AddressEu	

HumanName	Flags	Card.	Type	Description & Constraints
family		0..1	string	Family name (often called "Surname")
Slice for extension		0..*	Extension	Extension
fathersFamily		0..*	string	<p>Portion of family name derived from father</p> <p>URL: http://hl7.org/fhir/StructureDefinition</p>
mothersFamily		0..*	string	<p>Portion of family name derived from mother</p> <p>URL: http://hl7.org/fhir/StructureDefinition</p>
given		0..*	string	<p>Given names (not always "first"). Includes</p> <p>Example spanish name: Jorge</p>

MAY be selected from [ISO Country Alpha-3], IF the country is not specified in value set <http://hl7.org/fhir/ValueSet/iso3166-1>

Obligations



Name	Flags	Card.	Type
Patient			PatientUvIps
identifier		0..*	Identifier
name	C	1..*	HumanNameEu
text		0..1	string
family		0..1	string
given		0..*	string
telecom		0..*	ContactPoint
gender		0..1	code
address	C	0..*	AddressEu

Structural constraints

- e.g. Patient.birthdate 0..
- Observation.code derived from the Value Set XYZ (extensible)
-

Functional constraints

- e.g. The sender shall populate the Patient.birthdate if known
- Observation.code.text shall be displayed by the consumer if applicable
-

Name	Flags	Card.	Type	Description & Constraints
Patient		0..*	Patient	Information about an individual or an organization
identifier	D	0..1	Identifier	An identifier for this patient Obligations: Actor handle LabReportRepos handle LabReportConsumer send LabReportRepos send LabReportCreator populate LabReportCreator
name		0..1	string	Text representation of the full name Obligations: Actor handle LabReportRepos handle LabReportConsumer send LabReportRepos send LabReportCreator populate LabReportCreator
family	D	0..1	string	Family name (after called "Surname") Obligations: Actor

It describes the capabilities that each Actor may, should, or shall support

Informative, for collecting feedback

STRUCTURAL APPROACH

Some baseline requirements..

- In many European countries:
 - Laboratory Reports are **legally signed documents**.
 - Reports are often structured and may include different kinds of test results
 - Several implementations are currently based on HL7 CDA (mainly IHE XD-LAB) and still use document exchange infrastructures (e.g. IHE XD*)

A **document representation** for the Laboratory Report has been adopted

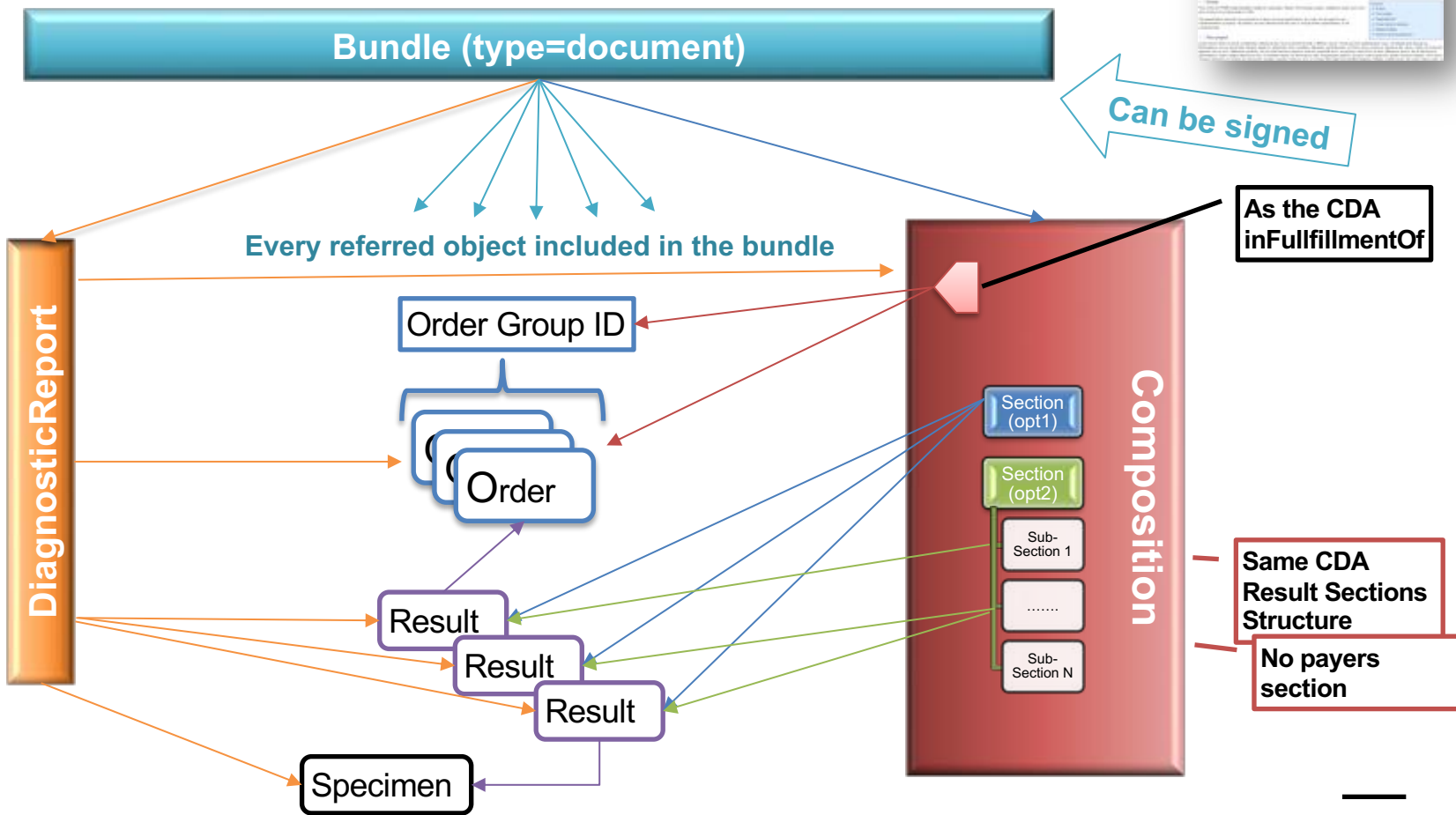
...however,...

- It has been recognized that typical HL7 FHIR consumers expect to get Laboratory Reports by searching per DiagnosticReport
- The team looked for a “balanced” solution of the two approaches (FHIR document and DiagnosticReport) taking into account the R5 DiagnosticReport design pattern



A Document Bundle always including a DiagnosticReport resource.

THE CURRENT APPROACH



Option to consider



Bundle (type=document)

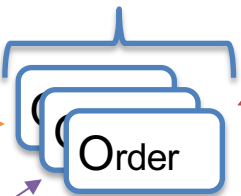
Can be signed

Every referred object included in the bundle

DiagnosticReport

DiagnosticReport

Order Group ID



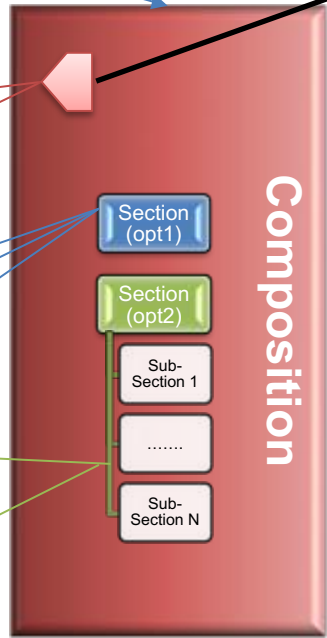
Result

Result

Result

Specimen

DR



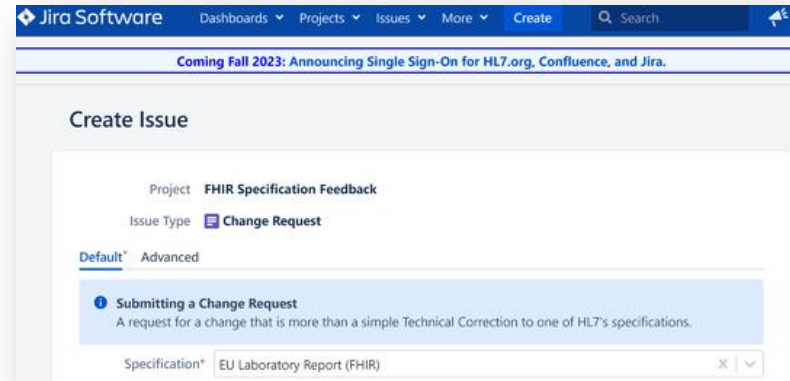
As the CDA inFulfillmentOf

Same CDA Result Sections Structure

No payers section

What's next ?

- Ballot for comment (November 23)



Jira Software

Dashboards ▾ Projects ▾ Issues ▾ More ▾ Create Search

Coming Fall 2023: Announcing Single Sign-On for HL7.org, Confluence, and Jira.

Create Issue

Project **FHIR Specification Feedback**

Issue Type **Change Request**

Default* Advanced

Submitting a Change Request
A request for a change that is more than a simple Technical Correction to one of HL7's specifications.

Specification* EU Laboratory Report (FHIR)

- *Support national adoption*
- *FHIR Connectathon (January 24)*

What's next ?

- *Ballot for comment (November 23)*
- Support national adoption

MyOrg Jurisdiction Laboratory Report
0.0.1 - c-build Europe

Home Table of Contents Logical Models Artifacts Downloads

Table of Contents Home

MyOrg Jurisdiction Laboratory Report - Local Development build (v0.0.1). See the Directory of published versions of

Home

Official URL: http://myorg-jurisdiction/fhir/laboratory/ImplementationGuide/myorg.fhir-jurisdiction.laboratory	Version: 0.0.1
Draft as of 2023-10-17	Computable Name: MyOrgJurisdictionLabReportIG

1.1 How to use this template

Remove this section from the actual derived FHIR IG

This template has been created to help organizations to specify FHIR IG Laboratory Report derived from the HL7 Europe Laboratory Report FHIR IG.

Users are suggested to follow these steps:

- Verify you are able to compile this guide template as "it is".
 - run the `__updatePublisher` script
 - run the `__genonce` script
- Update the `sushi-config-yaml` and the `ig.ini` file assigning actual values (see instructions of) and recompile
- Start updating profiles (`input/fsh/profiles` folder) and terminologies (`input/fsh/terminologies` folder) and recompile both are defined using the FHIR Shorthand (FSH) language.

Contents:

- How to use this template
- Scope
- The project
- Dependencies
- Cross Version Analysis
- Global Profiles
- IP Statements
- Authors and Contributors



What's next ?

- *Ballot for comment (November 23)*
- *Support national adoption*
- **FHIR Connectathon**
 - 2024 - January, 16-18



HL7 EUROPE WGM AND FHIR CONNECTATHON



HL7 Europe WGM and FHIR Connectathon



**Athens,
2024, January 15th to 19th**

*embedded in the **Digital Health Week** in Athens*

Plan (draft)

Monday, 15th	Tuesday, 16th	Wednesday, 17th	Thursday, 18th	Friday, 19th
ESAB	HL7 EU Plenary	HL7 EU Plenary	HL7 EU Plenary	EU projects Joint Meetings
	HL7 EU FHIR Connectathon European Lab Report, the International Patient Summary (IPS) and the electronic Product Information (ePI) and Identification of Medicinal Products (IDMP)			
HL7 EU Board	Technical sessions: FCAT break-outs; discussion rounds (e.g., National Terminology Services..) ; TNT meeting			
	Tutorials	Tutorials	Tutorials	
		EU projects Joint Meetings	EU projects Joint Meetings	
			Tutorials	

HL7[®]

 Europe



Thank you!



...hope to meet you all in Athens...