



..set your hospital on FHIR..

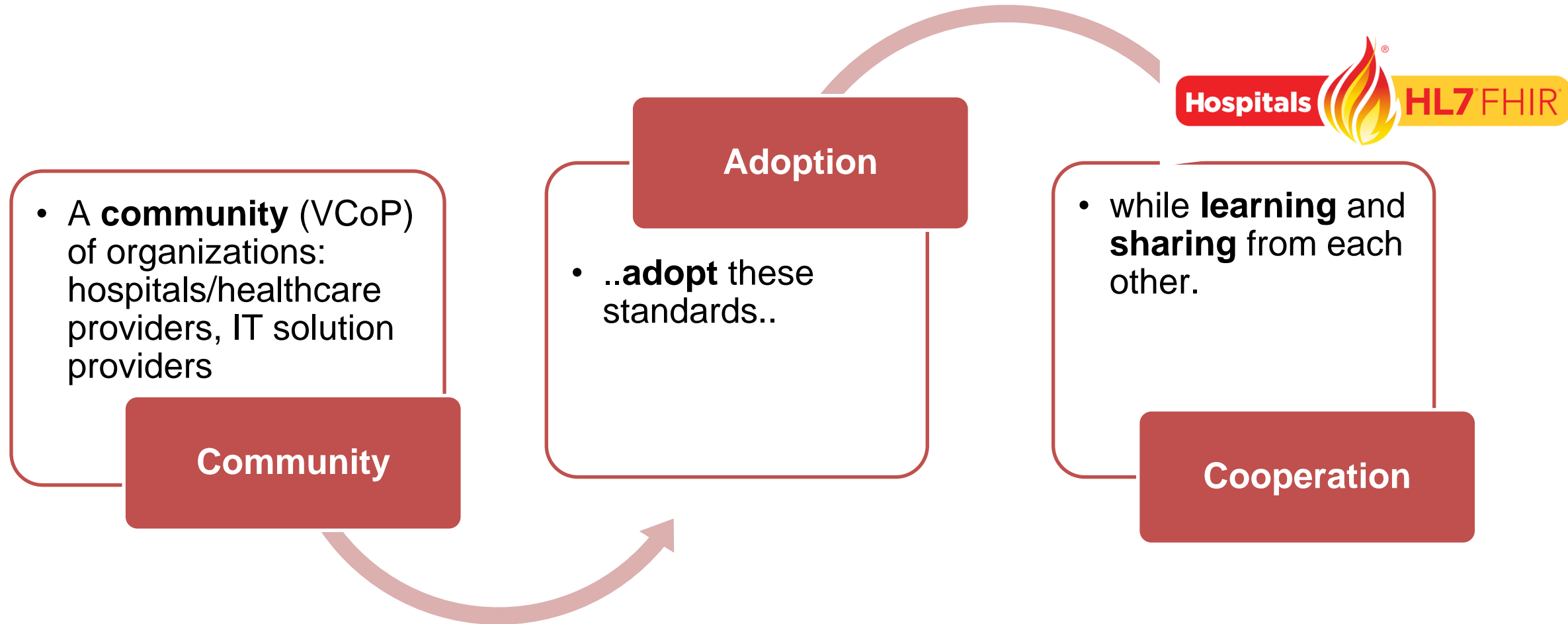
Hospitals On FHIR

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WHAT – Hospitals-on-FHIR is



What Hospitals-on-FHIR is not

A playground for technical geeks

Just another infrastructure

A consultancy program

An award system

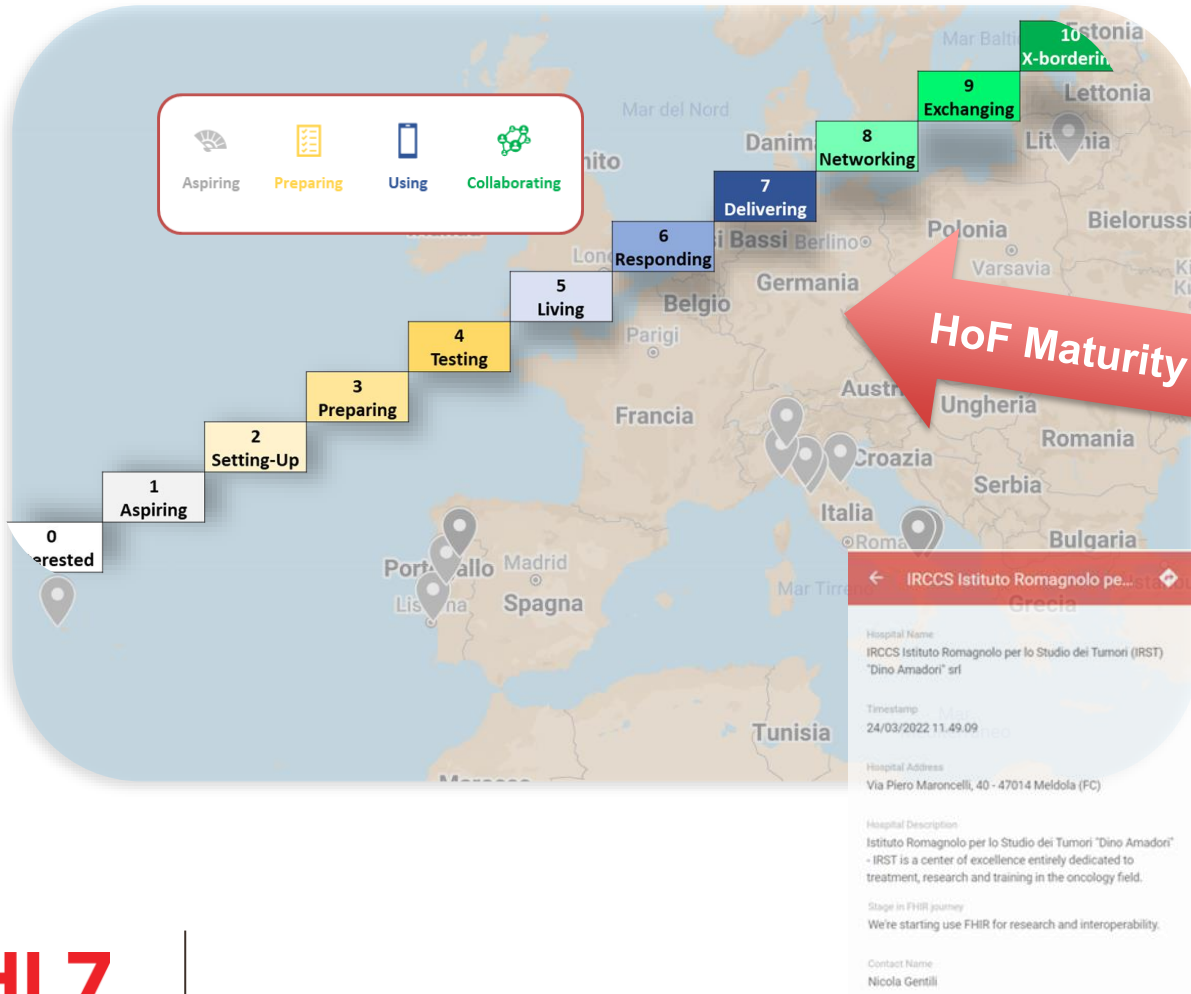


What Hospitals-on-FHIR is

- top-notch Community of Practice
- Reduce costs and effort to implement HL7 FHIR by benefiting of learning exchanges and decrease time to scale
- Place your hospital in a privileged position to participate in large scale pilots and projects once reached level 6 or more
- Understand how hospitals and other healthcare providers evolve in interoperability desires, needs and capabilities, moving toward the acquisition of interoperable services and systems.
- Serve as a networking space for future business opportunities.
- Evolve business models, intercompany partnerships around the provision of combined IT services based on FHIR while knowing which clients are ready for them



Your HL7 FHIR partner in a glance



Who is using HL7 FHIR ?

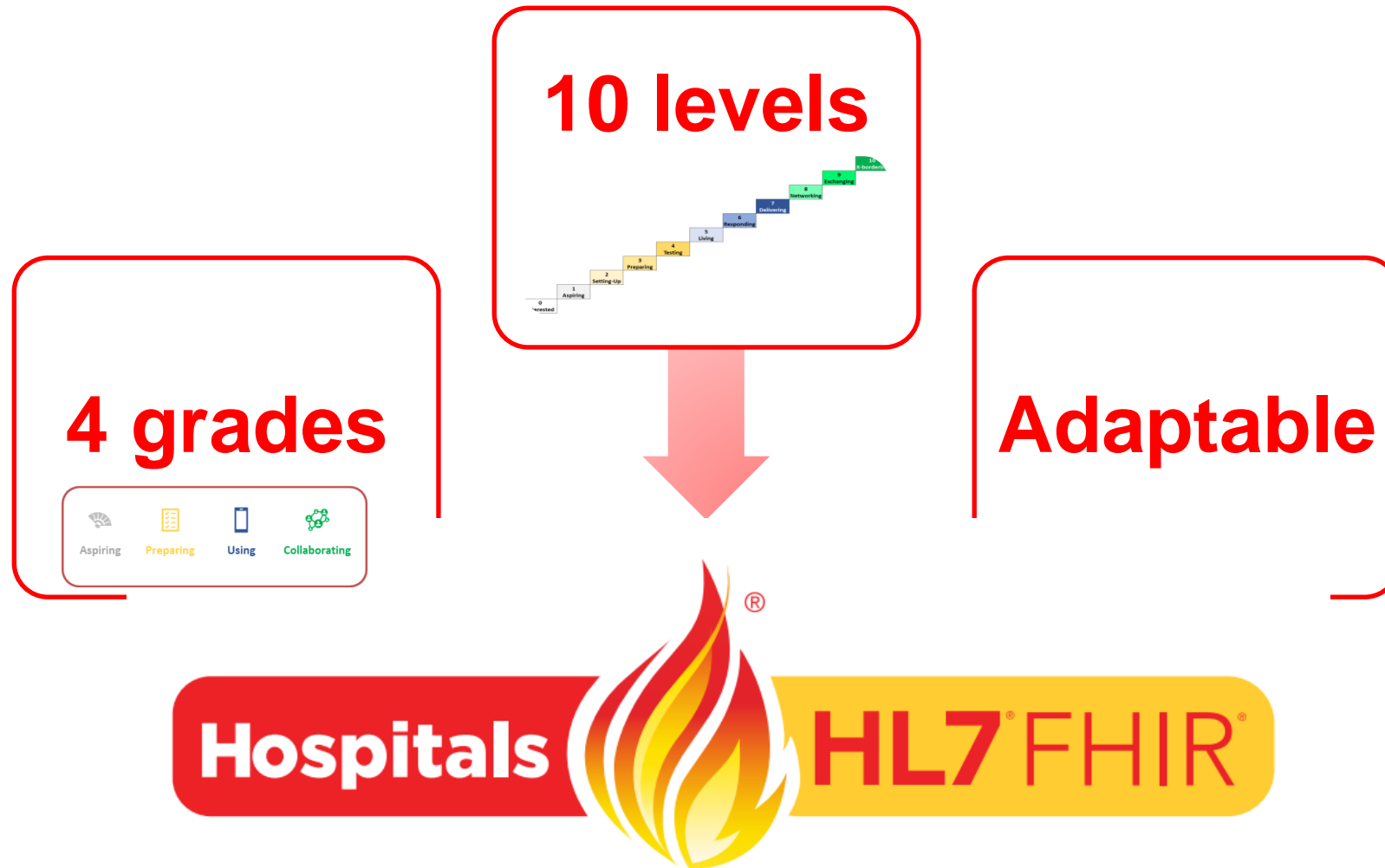
What are they doing ?

How advanced are they?

What can we learn from / do with them ?

Who should I contact ?

The Maturity Model in a nutshell



The

Hospitals



HL7 FHIR

grades



Aspiring



*Intention
to work*



Preparing



Work started



Using



Real Patients

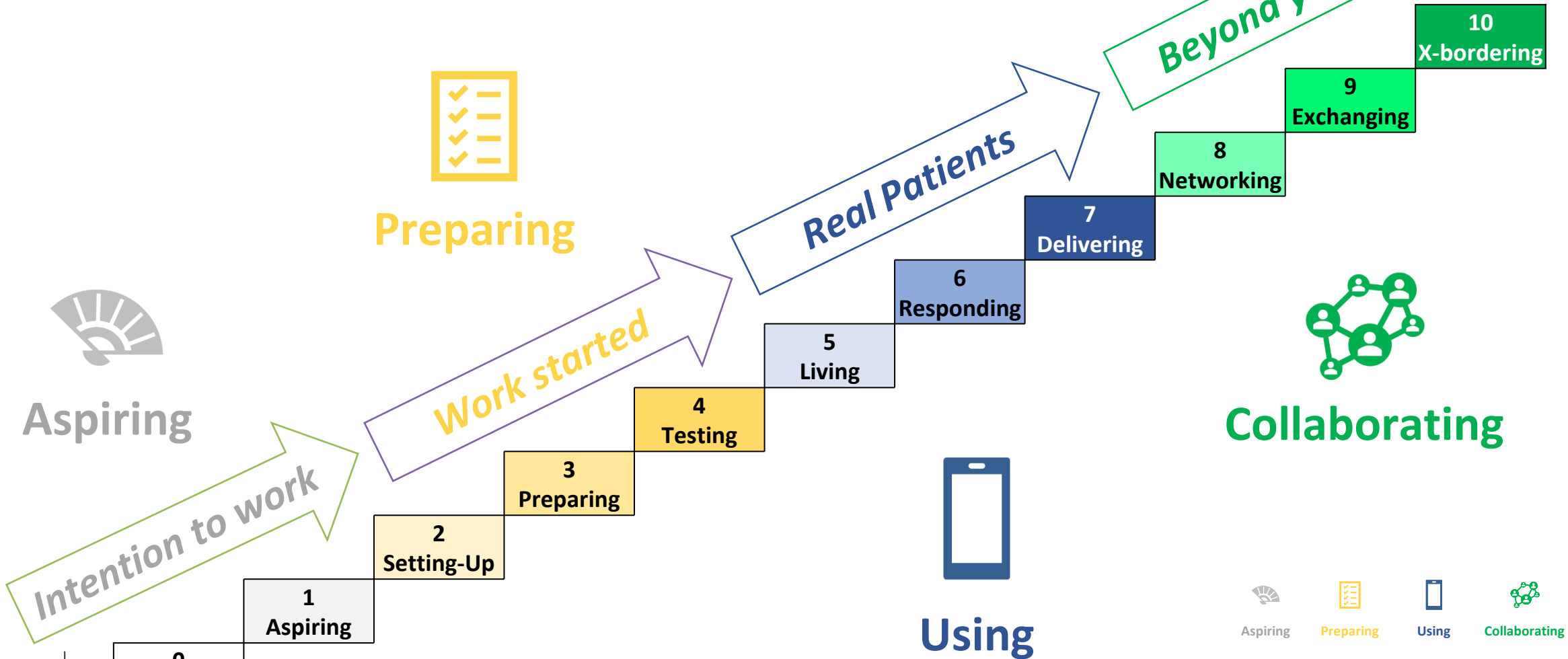



Collaborating



*Beyond your
hospital*

The Hospitals HL7 FHIR maturity levels



 <h2>Aspiring</h2>		
0	<i>Interested to be On-Fhir</i>	<i>The hospital agreed/expressed an interest to participate in Hospitals-On-Fhir</i>
1	Aspiring to be On-Fhir	The hospital has filled in the participation and consent form - basic information necessary

The

Hospitals



HL7 FHIR

Levels

2

3

4



Preparing

2

**Setting-Up
to be On-Fhir**

The hospital has performed a **self assessment** on conditions to establish and operate HL7 FHIR-based services.

3

**Preparing
to be On-Fhir**

The hospital is **preparing** to technically have functional HL7 FHIR-based services

4

**Testing
to be On-Fhir**

The hospital is engaging in internal and/or external **testing** also with external (e.g., HL7 affiliate/HL7 Europe) support

The

Hospitals



HL7 FHIR

Levels

5

6



Using

5

**Living
On-Fhir**

The hospital is **piloting** or has **gone LIVE** and has at least one HL7 FHIR-based services is regularly used (minimum once/day).

6

**Responding
On-Fhir**

The hospital **formalized the capabilities** offered by its HL7 FHIR-based services. *This is technically done by means of HL7 FHIR CapabilityStatement(s) and providing access to them.*



Using

7

Delivering On-Fhir

The hospital **implements** at least one of the relevant selected HL7 FHIR-based services.

*That is, your HL7 FHIR-based service **conforms** to **selected Implementation Guides** (e.g., EEHRxF Lab, IPS.)*



Collaborating

8

Networking
On-Fhir

The hospital is **networking** with other hospitals about offered HL7 FHIR-based services. This includes also mentoring activities.

9

Exchanging
On-Fhir

The Hospital is using HL7 FHIR-based services to **exchange** health data with entities (e.g. hospitals , citizens, regions..) **inside the country.**



Collaborating

10

X-bordering
On-Fhir

The Hospital is using HL7 FHIR-based services to **exchange** health data with other entities (e.g., hospitals , citizens,) **cross-border**.

- (a) *Europe (e.g., European EHRxF)*
- (b) *Global (e.g., IPS)*

Hospitals On FHIR



- Typology of Healthcare Organization wanting to use FHIR :
 - Hospitals
 - Clinics
 - Cancer centers
 - Retirement homes
- /!\ We are missing primary care



Hospitals On FHIR



- All have the same issues !
- What is FHIR ?
- How do I use it ?
- Is someone else working on the same subject ?
- Community is the answer !

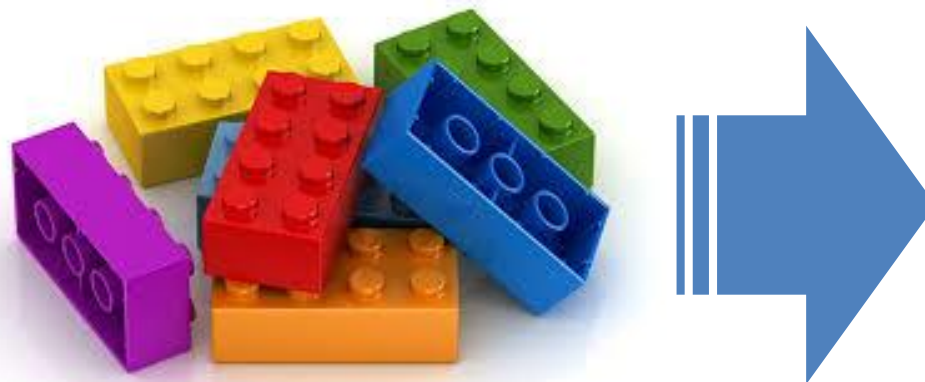


Hospitals On FHIR



- What is FHIR ?

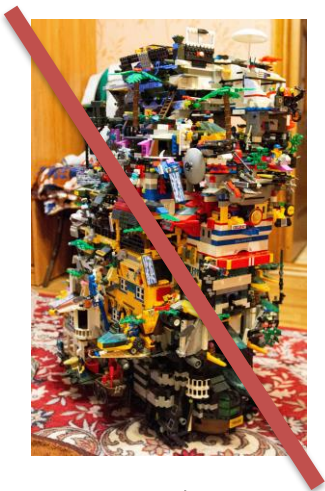
- Data exchange are built from a set of modular components called "Resources".
- Resources are the basic building blocks in FHIR
- Resources can easily be assembled into working systems that solve real world clinical and administrative problems
- 157 different resource types are currently defined in FHIR latest release



Hospitals On FHIR



- HL7 FHIR Resource levels



Level 1 Basic framework on which the specification is built

Foundation	Base Documentation, XML, JSON, Data Types, Extensions
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Level 2 Supporting implementation and binding to external specifications

Implementer Support	Security & Privacy	Conformance	Terminology	Exchange
Downloads, Version Mgmt, Use Cases, Testing	Security, Consent, Provenance, AuditEvent	StructureDefinition, CapabilityStatement, ImplementationGuide, Profiling	CodeSystem, ValueSet, ConceptMap, Terminology Svc	REST API + Search Documents, Messaging Services, Databases

Level 3 Linking to real world concepts in the healthcare system

Administration	Patient, Practitioner, CareTeam, Device, Organization, Location, Healthcare Service
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Level 4 Record-keeping and Data Exchange for the healthcare process

Clinical	Diagnostics	Medications	Workflow	Financial
Allergy, Problem, Procedure, CarePlan/Goal, ServiceRequest, Family History, RiskAssessment, etc.	Observation, Report, Specimen, ImagingStudy, Genomics, Specimen, ImagingStudy, etc.	Medication, Request, Dispense, Administration, Statement, Immunization, etc.	Introduction + Task, Appointment, Schedule, Referral, PlanDefinition, etc	Claim, Account, Invoice, ChargeItem, Coverage + Eligibility Request & Response, ExplanationOfBenefit, etc.

Level 5 Providing the ability to reason about the healthcare process

Clinical Reasoning	Library, PlanDefinition & GuidanceResponse, Measure/MeasureReport, etc.
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Hospitals On FHIR



- Different usages :
 - Care
 - Research
- Different methods :
 - FHIR façade
 - FHIR repositories



Hospitals On FHIR



- What use cases ?

Every use case can be the occasion to use FHIR

- Laboratory
- Pharmacy
- Buildings
- Transport
- ...

Set all the hospital in FHIR



Thank You

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

- Let's build people interoperability around technical interoperability
- Beyond a technical standard to higher standards of Care

