

## IHE Testing Continuum

**Lapo Bertini** 

Dedalus

IHE Catalyst

Sponsored by





#### Lapo Bertini

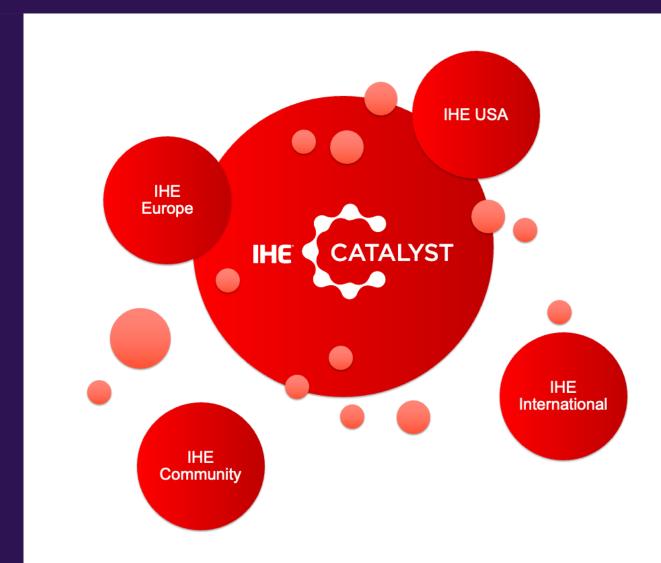
- Dedalus
- Board member of IHE-Europe since 2008
- Board member of IHE International since 2009
  - IHE International Treasurer since 2016
- Board member of IHE Catalyst since 2021
- Past
  - Co-Chair (Vendors) IHE-Europe (2012-2016)
  - Deputy Co-Chair IHE-Europe (2016-2020)
  - Chair Conformity Assessment Steering Committee IHE International (2013-2020)
  - Chair Marcom Committee IHE-Europe (2012-2019)





## A bit of background

- IHE Catalyst is a not-for-profit operational entity serving the IHE community and contributing to expand the IHE ecosystem
- Created in 2021 by IHE USA and IHE Europe
- IHE Catalyst is and has been providing technical support, SMEs, testing tools implementation and development to the IHE Community for more than 15 years





## How IHE is Contributing to Testing

## **Facilitating Interoperability Testing**

IHE provides a **framework for testing the interoperability** of health IT systems.

## **Hosting Connectathons**

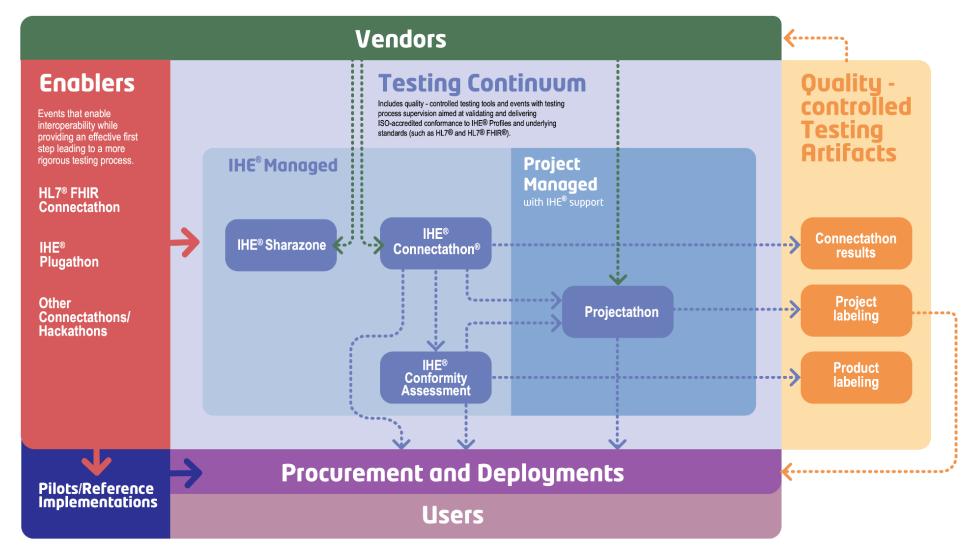
IHE organizes annual **Connectathons**, where vendors and healthcare organizations come together to test their products against IHE profiles.

## **Creating Comprehensive Test Tools**

IHE develops and provides a suite of testing tools and resources that help healthcare organizations and vendors validate their systems' compliance with IHE standards.

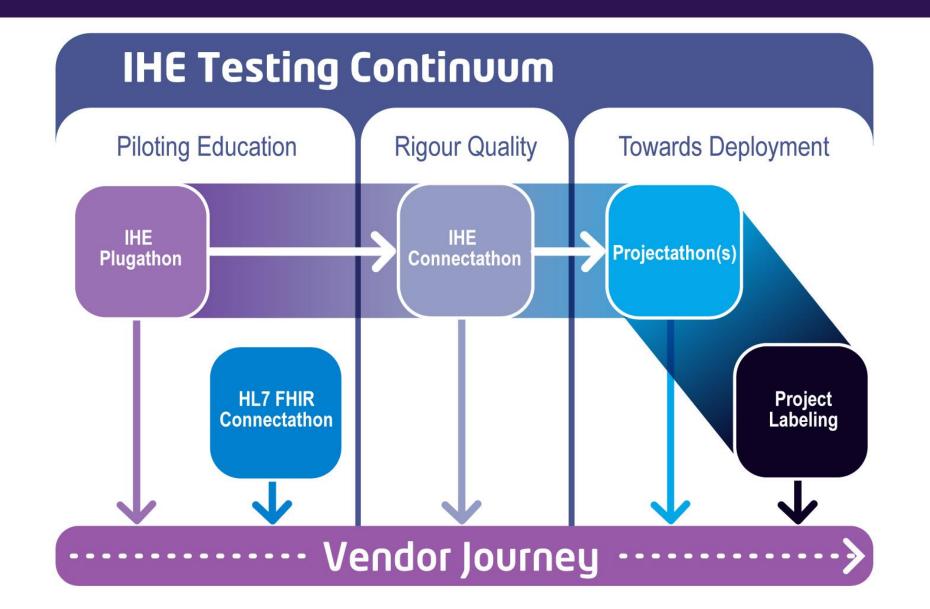


# **IHE Testing Continuum**





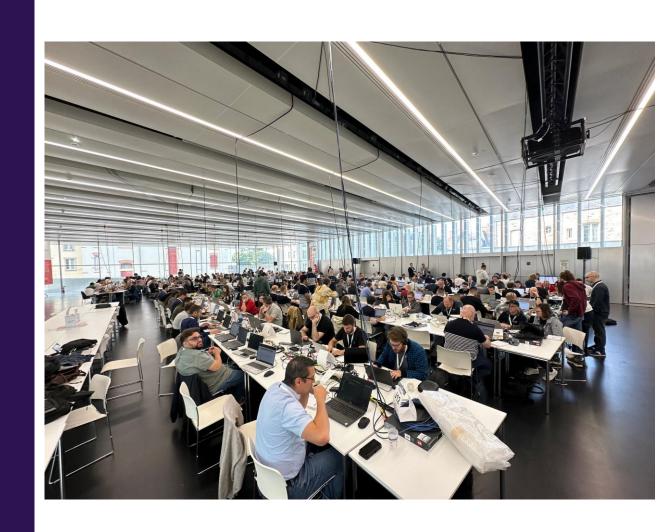
# IHE Testing Continuum: Vendor Journey





## What is an IHE Connectathon?

- Cross-vendor, live, quality-controlled, supervised, structured testing event
- All participating vendors' products tested together in the same place and time
- Experts from each vendor available for immediate problem resolution
- Vendors tests with multiple partners even beyond the Connectathon scope
- More than 800 companies worldwide have tested at the Connectathon since 1999 in 80 IHE Connectathons



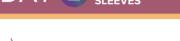


# IHE Connectation at a glance











Rapid debugging and problem resolution



Access to 140+ systems



Access to 20+ tools and their developers



Access to team of 60+ monitors (industry professionals)



Practical experience and learning

















### **IHE Monitors**







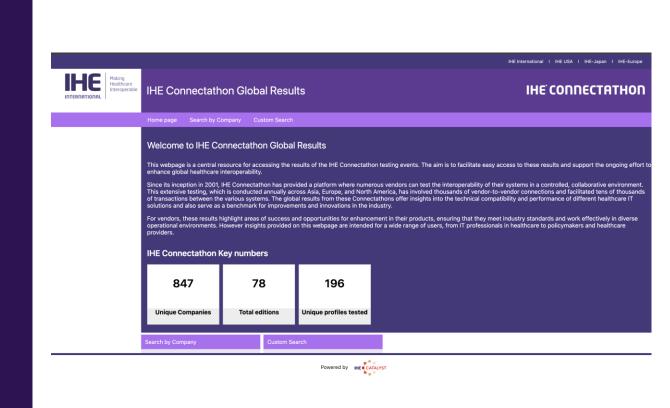
- Awarded for successfully completing testing of a system at an IHE Connectathon
- Introduced in 2024 by IHE USA and IHE Europe
- Seal's authenticity is validated through an external service





### New IHE Connectathon Result Matrix

- One of the assets of IHE is the IHE Connectathon Result Matrix
- It contains the record of 80
   IHE Connectathons worldwide and testing results from more than 800 vendors
- This powerful tool needs to be adapted to our new landscape and incorporate elements coming from the IHE Connectathon Seal program





## IHE Plugathon @ IHE Connectathon Week

The IHE-Europe Plugathon will take place alongside the IHE-Europe Connectathon, in Trieste, Italy from 3 to 7 June 2024.

IHE **EHDS** Radiology Energy Profiles based on Track Track Track **HL7® FHIR®** Track Technical Coordinator Technical Coordinator Technical Coordinator Technical Coordinator Mauro Zanardini Mathias Forjan Mauro Zanardini Marc Kämmerer 4 - 5 JUNE 4 - 6 JUNE 5 - 6 JUNE 3 - 6 JUNE RESERVED TRACK RESERVED TRACK



## IHE Plugathon

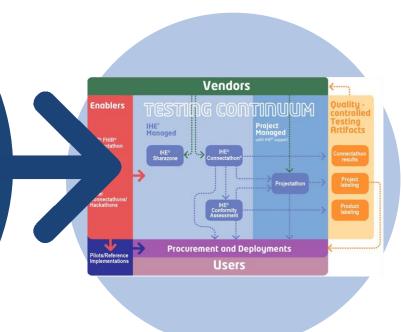
**IHE Plugathons** are divided in TRACK and each track is structured to increase their VALUE in the **IHE Testing Continuum** process

SESSIONS
are structured in 2
sessions held by
domain experts:
Educational &
Testing sessions

# RESULT EVALUATION

The results of each

Track will be shared with
the IHE community to
evaluate if that specific
area is ready and mature
to enter in the Testing
Continuous process

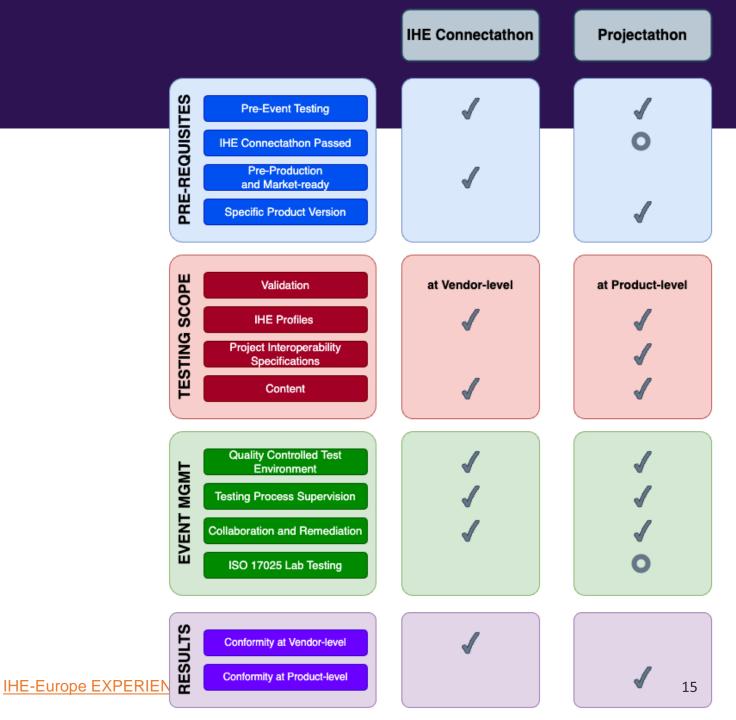


#### Projectathons

- A Projectathon is a peer-to-peer testing event organized by a "project"
  - testing draws on IHE Connectathon experience
  - the interoperability specifications are those of a national, regional or other project, which are...
  - ..."localizations" of IHE integration profiles that take into account additional local requirements and constraints
- Projectathons usually incorporate muti-actors and multi-transactions sequences that map real life health information exchange peculiar to a project
- Projectathons build on and expand the same testing tools as those used in IHE
   Connectathons

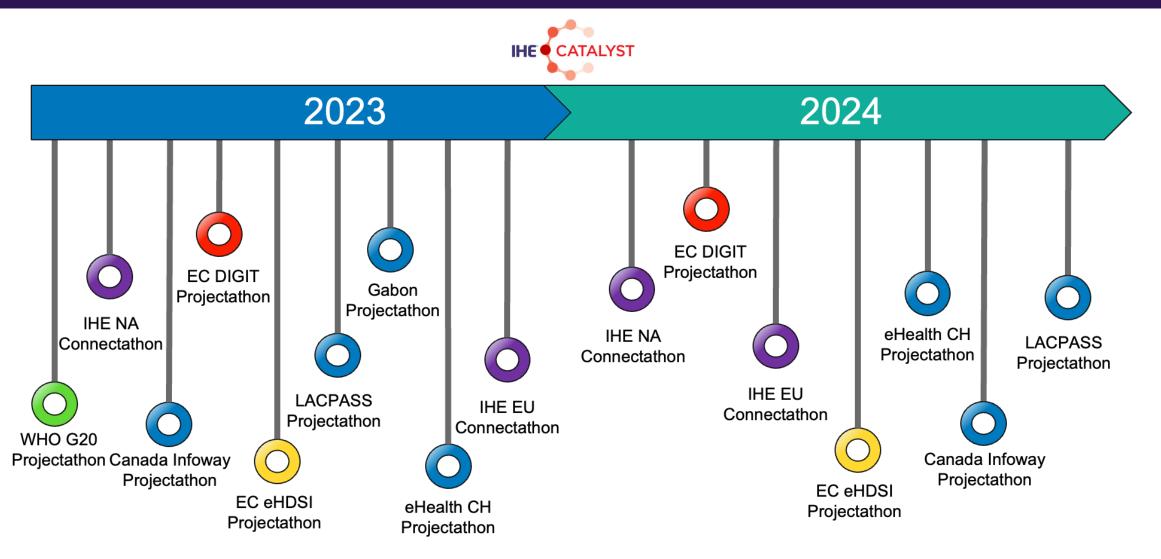


From Connectathon to Projectathon



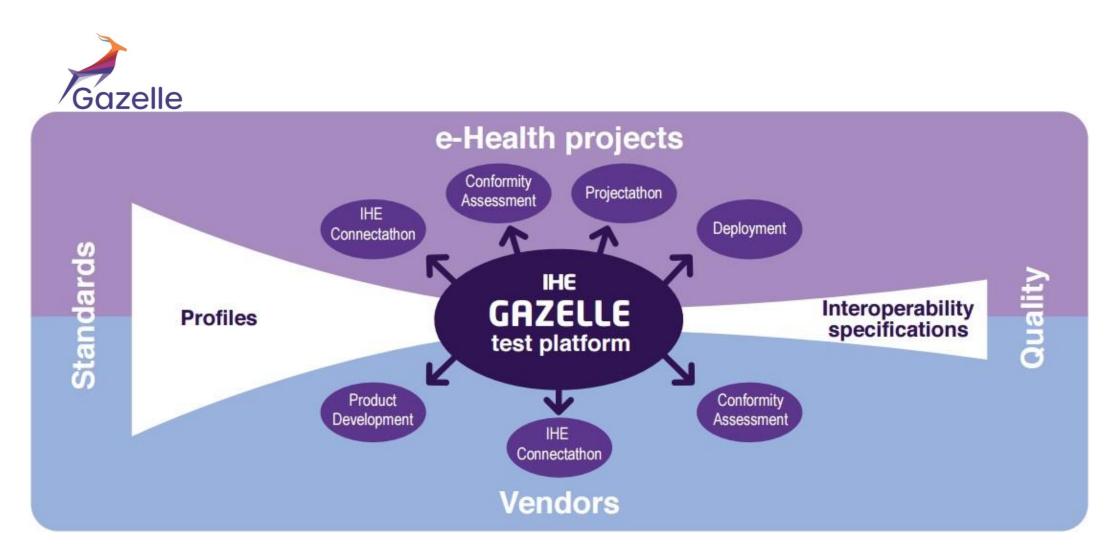


## IHE role in testing activities worldwide





#### Central Role of IHE Gazelle





#### In Conclusion

#### **Collaborative Problem-Solving**

Through events like **IHE Connectathons**, IHE fosters collaboration among vendors and healthcare organizations, enabling them to identify and address interoperability challenges in a real-world testing environment.

#### **Streamlined Validation Process**

The comprehensive testing tools and resources provided by IHE simplify the validation of health IT systems' compliance with interoperability standards, ensuring that solutions are reliable and ready for clinical use.

#### **Role of IHE Catalyst**

IHE Catalyst is a pivotal force in the IHE ecosystem, driving the development of advanced testing tools and providing top-tier technical support. Aligned with IHE's strategic vision, it enhances **IHE Connectathons** and **Projectathons** globally, boosts investments in the **IHE Gazelle** platform, and collaborates with key contributors for cutting-edge solutions.



#### Thanks

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