

AIIC 2023

FORTEZZA DA BASSO

Firenze 10-13 maggio 2023



Convegno Nazionale
Associazione Italiana Ingegneri Clinici

Innovazione e accessibilità:
il governo delle tecnologie sanitarie come sfida sociale



AIIC
associazione italiana
ingegneri clinici



Le strategie di Testing per accelerare l'adozione degli standards

Claudio Saccavini

IHE
INTERNATIONAL

Integrating
the Healthcare
Enterprise

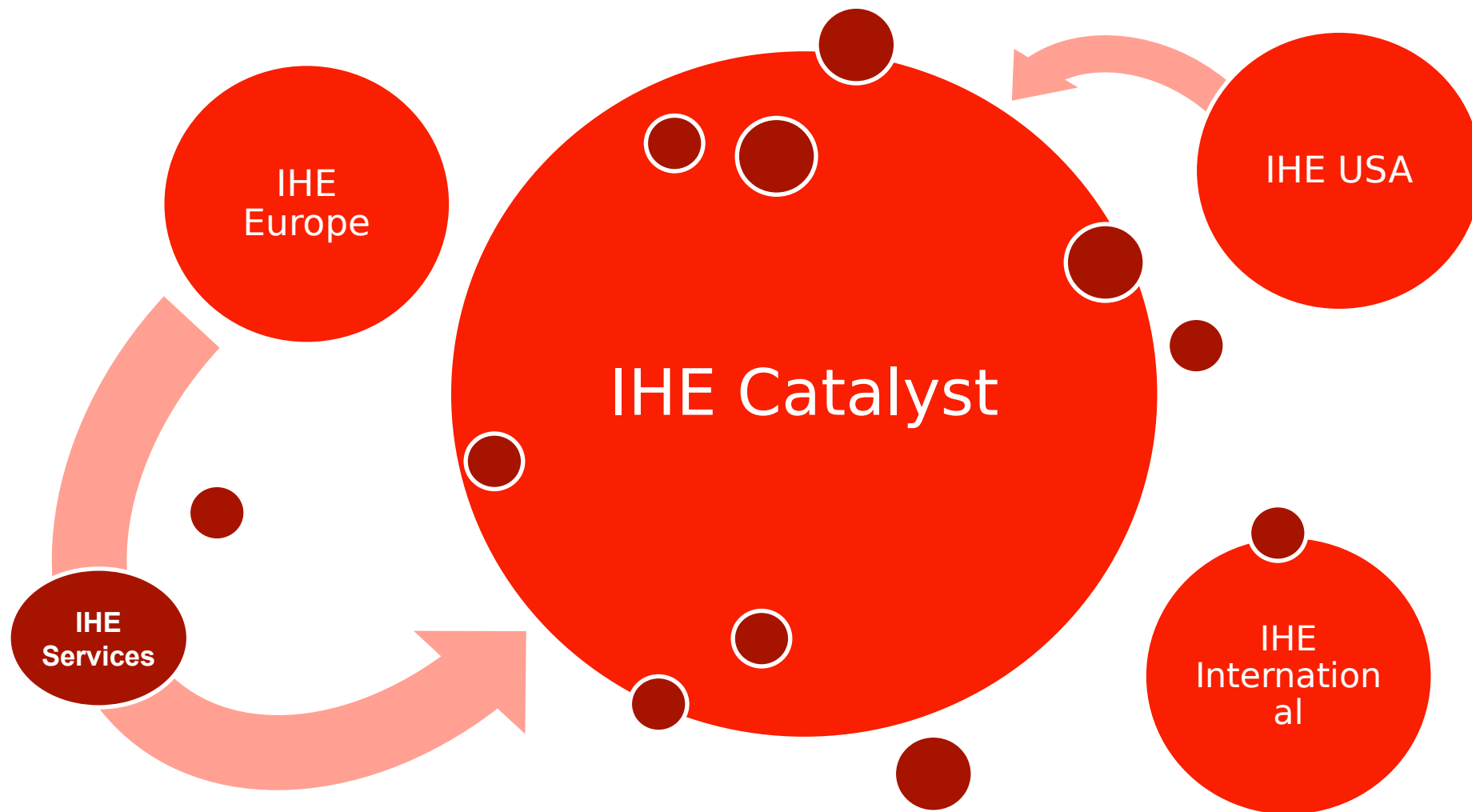




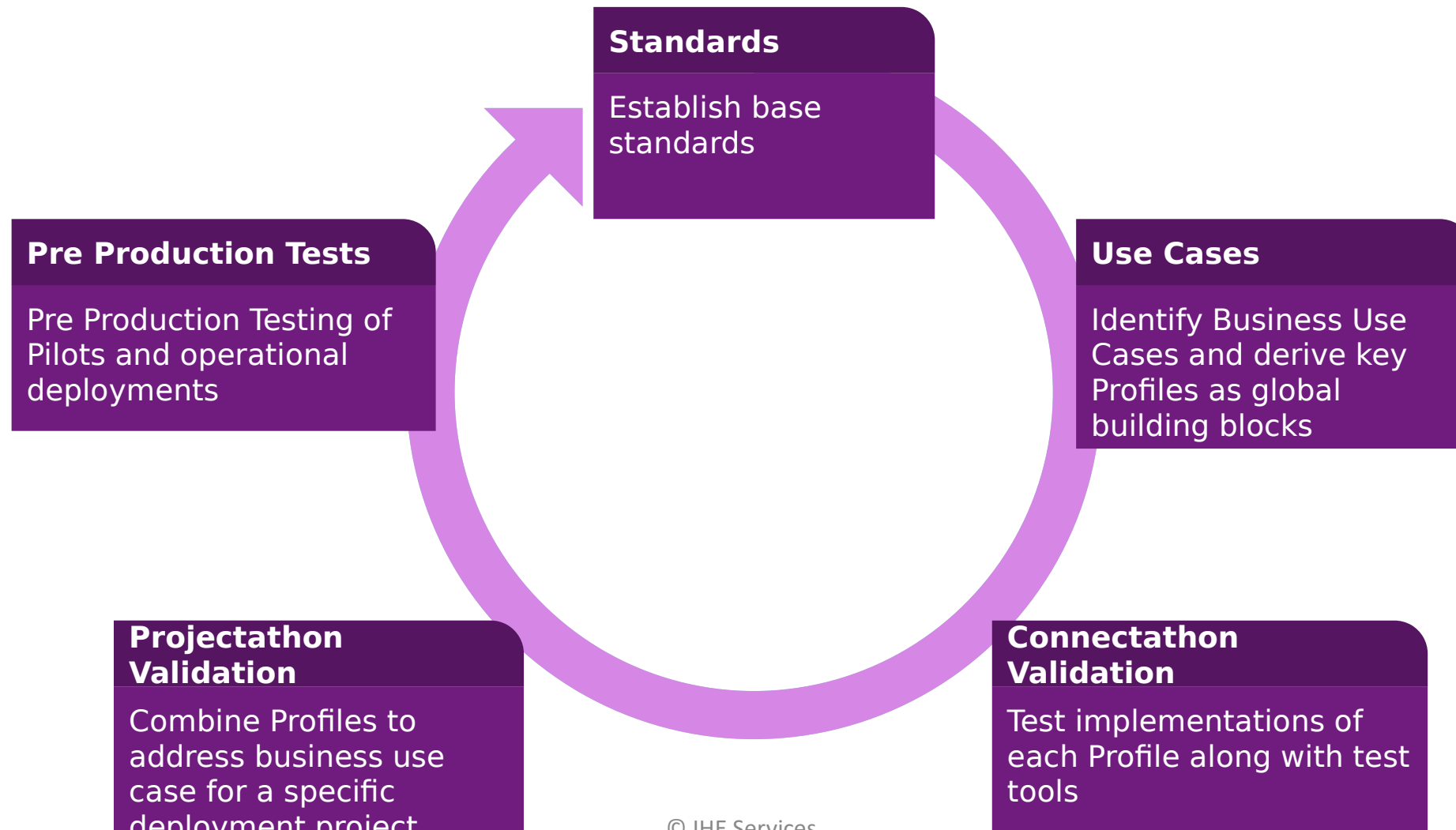
IHE Catalyst



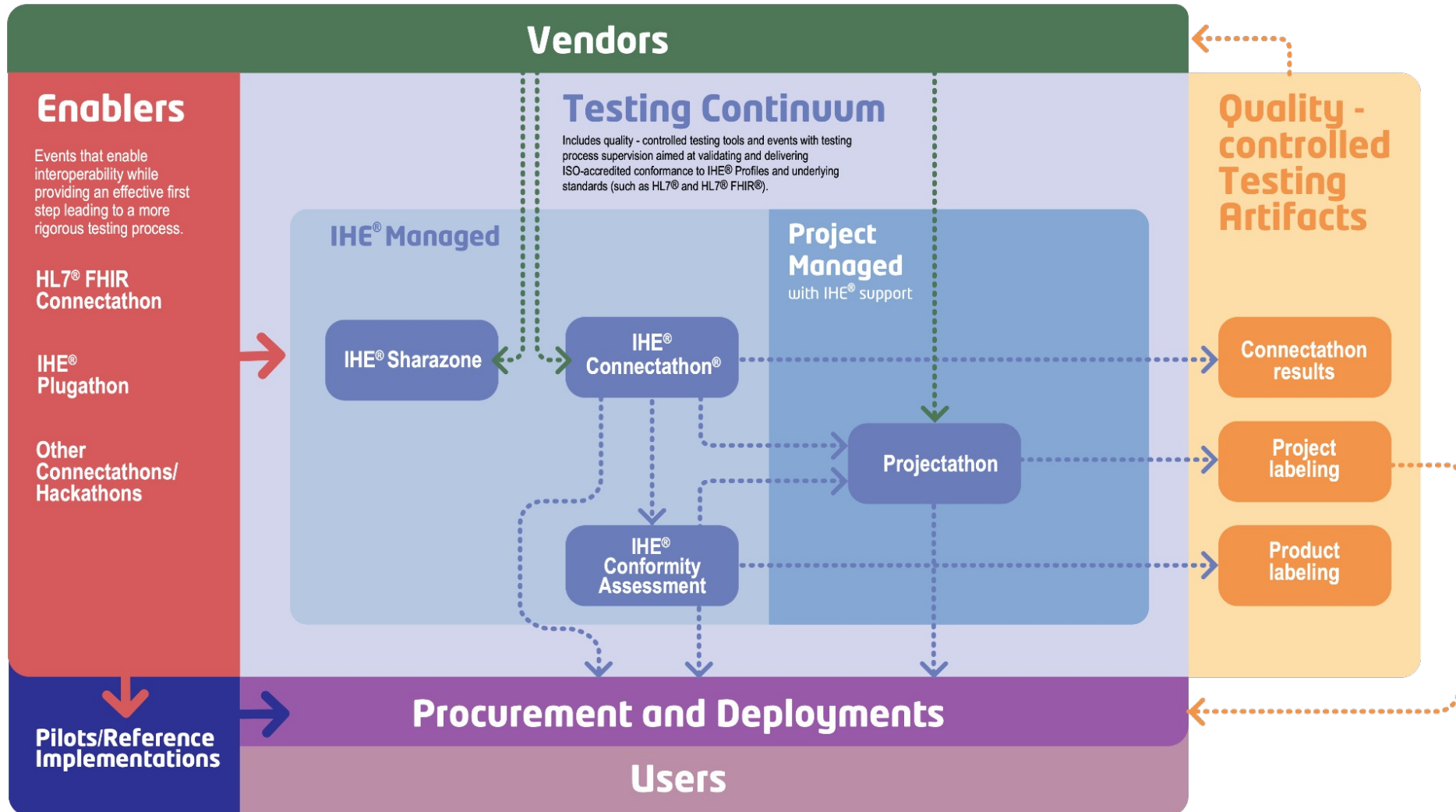
IHE Catalyst



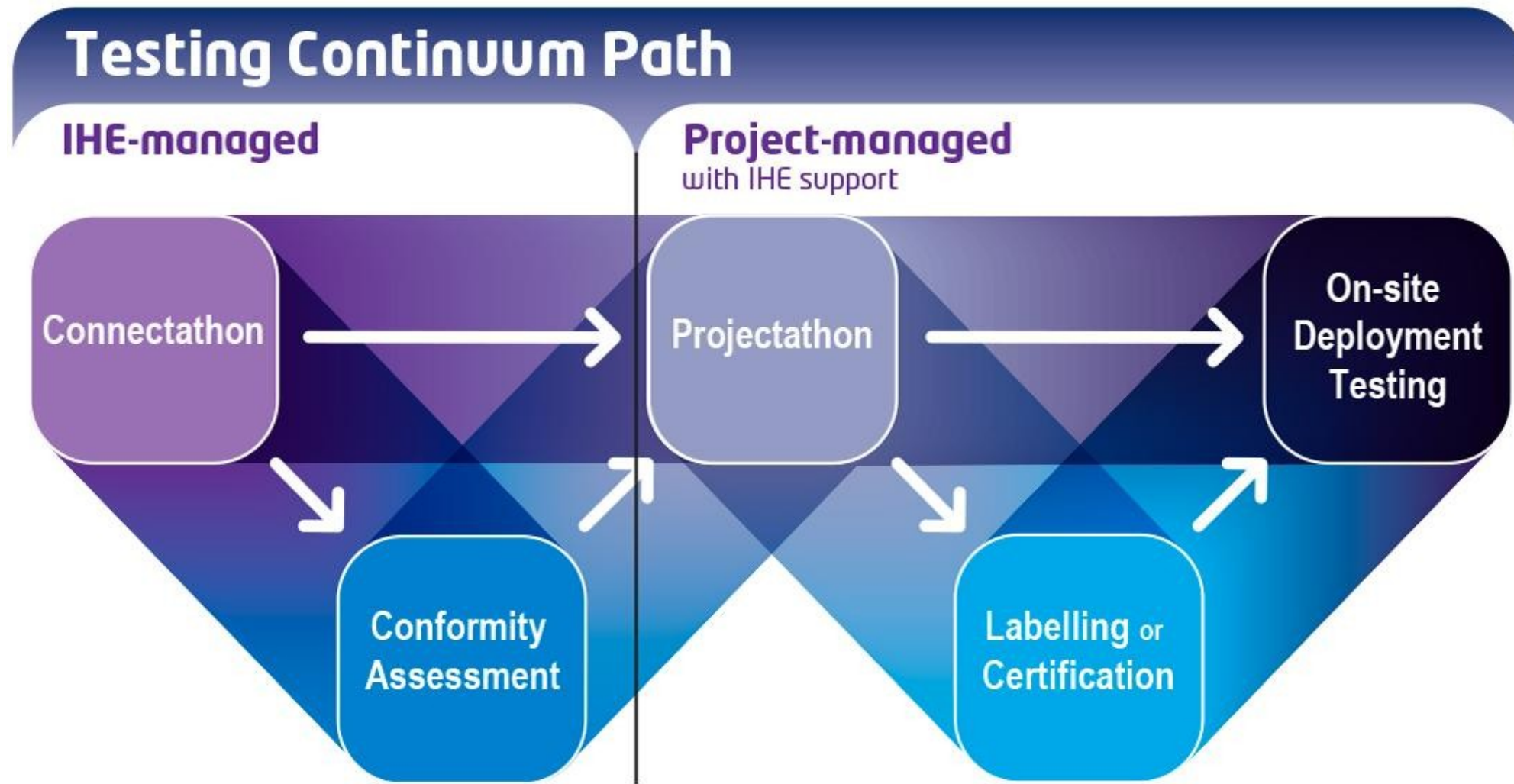
Realizing Interoperability



IHE Testing Continuum



IHE Testing Continuum Path



Gazelle Core

Test Management

User Management

Interoperability model management

Test Plan Management

Test Management

System & Product management

TMAPI

EVSCClient

Validator Management

Message Content Analyser

EVSCClient API

Gazelle Proxy

Interoperability model management

Gazelle Security Suite

PKI

TLS testing

XUA Testing

Audit message testing

Gazelle Tools

HL7 Validator

HL7 v2 Validator

HL7 v3 Validator

Gazelle Object Checker

HTTP Validator

DCC Validator

CDA Validator

X validator

Schematron Validator

FHIR Validator

XDStarClient

XD* Validators

XD* Simulator Clients

IUA Simulator

Demographic Data Server

HPD Simulator

Order Manager

Patient Registry

Patient Manager

SVS simulator

STS simulator

IHE Gazelle ITB

Ecosystem Tools

NIST

NIST XDSTools

NIST FHIR Toolkit

HL7 IGAMT



ART-DECOR



GE Dccheck
(licence tool)



ITB XML / JSON
Validators



AHDIS Matchbox



DCM4CHEE



Dicom3tools

Two versions of Gazelle (Open source)

Community (non-supported)

Enterprise (supported + validated)

Enterprise Versions

In House

Cloud

Maintenance Packages are a **combination of maintenance and additional services tailored to customer's needs** (specification creation, training, consultancy, custom test tools, custom test plans, virtual connectathons, projectathons etc.)

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IHE Connectathon



IHE Europe Connectathon



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IHE-Europe 2023 Connectathon
Rennes, France from 25 to 29 September 2023

[IHE-Europe Experience Days 2023](#)

IHE-Europe, in collaboration with the ANS (Agence du Numérique en Santé) and IHE... [Read more>>>](#)

[IHE-Europe Connectathon WEEK 2023](#)

Registration for the IHE-Europe 2023 Connectathon is open here!
To learn more about... [Read more>>>](#)

[IHE Experience Day 2022, 13 Sept](#)

IHE Suisse (in collaboration with eHealth Suisse) and IHE-Europe offered an exciting... [Read more>>>](#)

[IHE-Europe Experience Day 2022 - Presentations](#)

Interoperability presentations from both locations were given by an eminent faculty of experts from... [Read more>>>](#)

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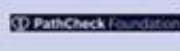




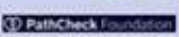

















[IHE-Europe
Connectathon Week
- 25/29 SEPTEMBER
2023](#)

Projectathon

	Connectathon®	Projectathon
Governance	Under the supervision of IHE regional/national deployment.	Under the supervision of the project (e.g. National/Regional eHealth Agency/Entity)
Scope	IHE Integration Profiles (TI and FT)	IHE Integration Profiles Local IHE-like Integration Profiles Other testable specifications
Rules for successful testing	IHE test methods are used. Criteria are developed in the IHE Test Plan.	Test methods are customized to fit the project specifications. Criteria are developed by the project.
Publication of the results	IHE Connectathon Results.	Published by the project

An example: G20 Projectathon

DDCC (5)	DCC (16)	SMART Health Cards (5)	DIVOC (2)	ICAO (2)	DID (2)
Affinidi 	France 	Senegal 	Affinidi 	Affinidi 	ICAO Health Master List (3 systems) 
Perou 	Netherlands 	Canada 	DIVOC 	ICAO -VDS-NC Checker (Australia) 	Senegal 
El Salvador 	Uruguay 	USA WA State DOH 	PathCheck 	PathCheck 	PathCheck 
Uruguay 	Colombia 	USA (California Department of Public Health) 			
PathCheck 	Perou 	Affinidi 			
	United Arab Emirates 	PathCheck 			
	Guatemala 	Puerto Rico 			
	Suriname 				
	El Salvador 				
	PathCheck 				
	Singapore 				
	Paraguay 				
	Indonesia 				
	Israël 				
	Brazil 				
	ICAO 				

An example: Canada

First Pan-Canadian Projectathon

What is a Projectathon?

A Projectathon tests and validates project specifications; in this case, for the pan-Canadian Patient Summary (PS-CA). Projectathons provide participants with a foundation to jump start their own interoperability journey.

The pan-Canadian Patient Summary specification defines the data content and transactions that solutions must support to create and share an extract of a patient's health record to support planned and unplanned episodes of care.



Why is interoperability important?
It enables patient information to flow seamlessly between different solutions and devices, enabling more connected and collaborative care.

[Click here to learn more about the PS-CA specification and its releases on InfoScribe.](#)

Infoway hosted the first pan-Canadian Projectathon in March 2022 to test and validate the PS-CA specification; the event was hosted in collaboration with provinces and territories.



Vendors connected live to **prototype, test and improve** their products' alignment with, and the quality of, the specification.



Vendors performed **67 tests** over **2 days** – exceptional for a first Projectathon!



35 representatives from **5 Vendors** participated,

including Allscripts, Epic, Cerner, JuniperCDS and SmileCDR.

Vendors were able to create and exchange patient summaries based on the specification. **PS-CA was successfully tested and validated!**



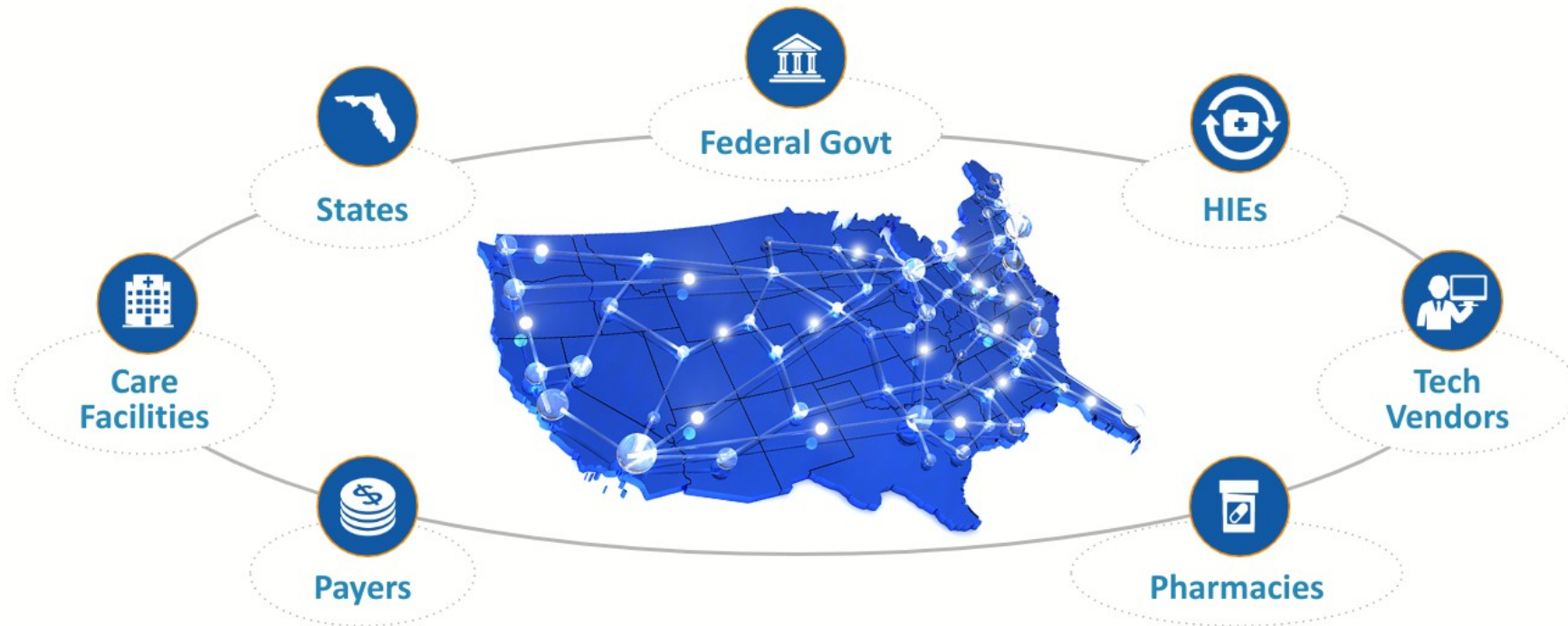
PS-CA v1.0.0 Trial Implementation will be published in summer 2022. The Projectathon represents a key milestone and important step in the ongoing interoperability journey.



An example: Sequoia

Introduction to the eHealth Exchange

Rapidly growing network for securely sharing health information over the Internet



Shared Governance and Trust Agreement

Common Standards, Specifications & Policies

An example: epSOS / eHDSI

epSOS projectathons since 2011



EXPANDATHON

Lisbon 9-11 December 2015

Online eHDSI projectathons since 2016

An example: Swiss



EPR-Projectathon 2023

Previous Projectathons

- EPR-Projectathon and IHE-Europe Connectathon 2022
- EPR Projectathon 2021
- eMedication Projectathon March 2021
- EPR Projectathon 2020
- EPR Projectathon 2019
- EPR Projectathon 2019 @Rennes
- EPR Projectathon 2018 @The Hague
- EPR Projectathon 2018
- EPR Projectathon 2017

Gallery

Documentation

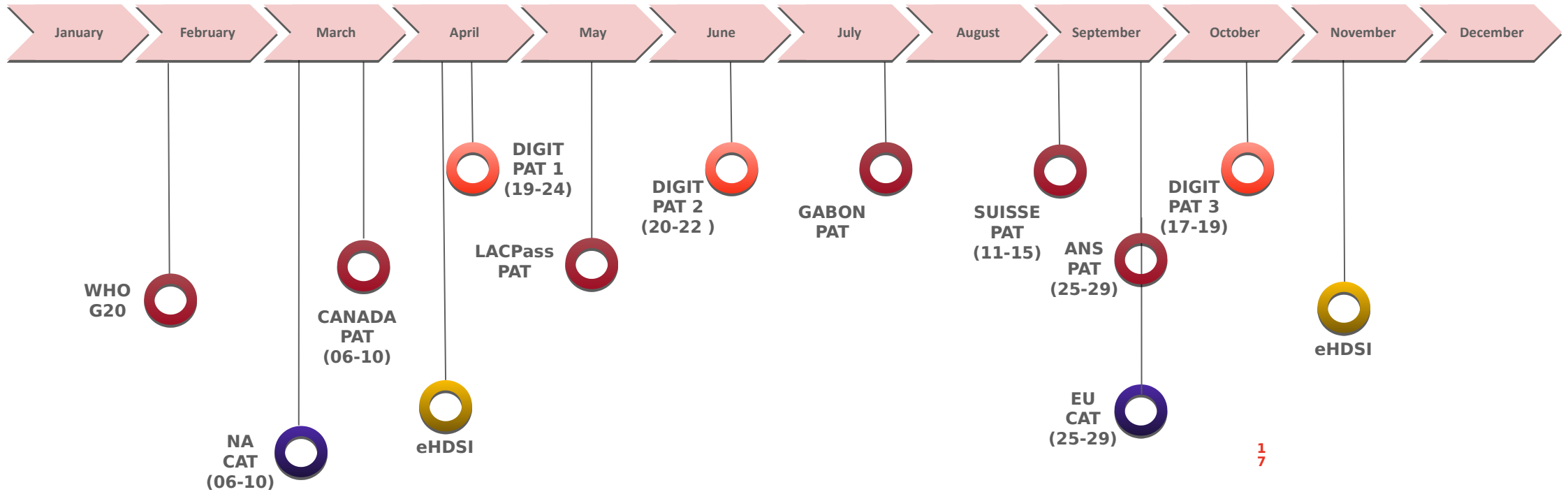
 [Final Report: EPR Projectathon 2022](#)

2 MB 21.11.2022

 [Maturity Level EPR Integrations Profiles](#)

462 KB 21.09.2022

Roadmap of testing event 2023



- 2 Connectathon
- 11 Projectathon
- 2 IHE Deployment Committee
- 8 Projectathon hosts

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Grazie

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