EUROPE Integrating the Healthcare Europe

El a contra de la contra de la

Interoperability in Europe

IHE-Europe Perspective

HL7 Deutschland und IHE Deutschland Jahrestagung

Dr. Andreas Klingler, Siemens Healthineers Vendor Co-Chair



Mission

<u>Guide</u> clinicians, health authorities, industry, and users in order to reach healthcare interoperability in Europe

Strategic Goals

Promote the knowledge and use of the <u>IHE methodology</u> through which IHE transforms <u>international</u> standards into <u>testable specifications</u> for which both tooling and related services are available from the <u>IHE ecosystem</u>.

<u>Help</u> national and European <u>stakeholders and policymakers</u> in adopting and promoting the use of the IHE methodology to foster interoperability.



National IHE Deployment Committees

- Austria
- Belgium
- Czech Republic
- Finland
- France
- Germany
- Italy
- Luxembourg
- Netherlands
- Switzerland
- United Kingdom

User Associations

- Entscheiderfabrik (GUIG)
- European Association of Hospital Managers (EAHM)
- European Association of Hospital Pharmacists (EAHP)
- GS1 Netherlands
- Nictiz
- Société Française de Radiologie (SFR)

13 Vendor Members

Benefactors

- COCIR
- European Society of Radiology (ESR)



National / Regional Health Information Exchanges build foundation for Digital Transformation in Health Care



Austria: ELGA



Denmark: MedCom



Finnland: Kanta



France: Segur Numérique



Norway: Helsenorge



Switzerland: EPD

Different HIE generations Different adoption levels



National legacy standards Mature standards (e.g., CDA) New standards (e.g., FHIR) Clear guidance on the best practices and optimal adoption of standards will contribute in protecting EU-wide investments!

Selected National/Regional IHE - Adopters



EU: Strategic Objectives with European Health Data Space



MyHealth@EU Electronic cross-boarder health services in the EU



HealthData@EU Cross-border use of health data for secondary purposes

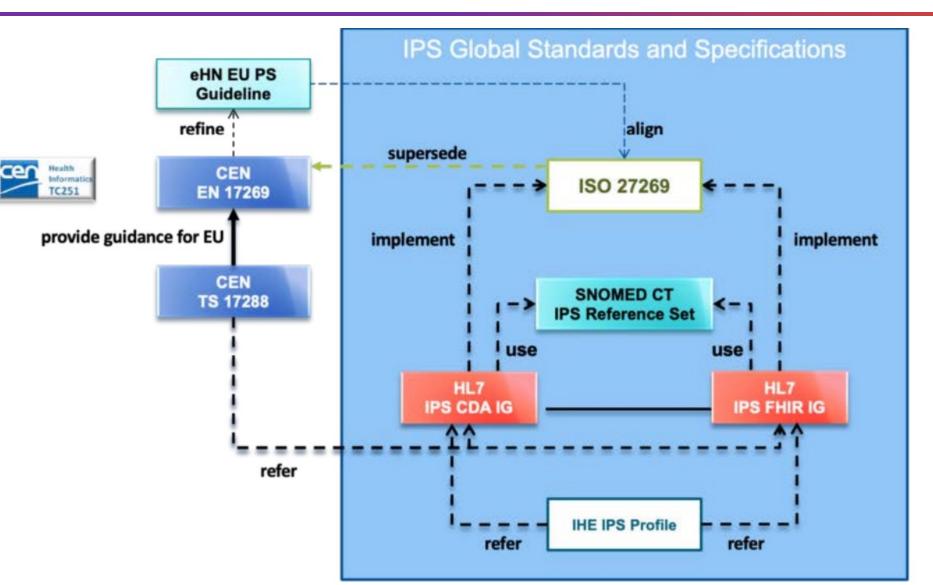


EUR 5.5 billion over 10 years for better access and exchange of health data in healthcareEUR 5.4 billion over 10 years for better use of health data in research, innovation and policy making





IHE & (I)PS













IHE is and remains to be a key enabler of digital health interoperability in Europe

by

providing the foundation for many products and regional / EU level projects

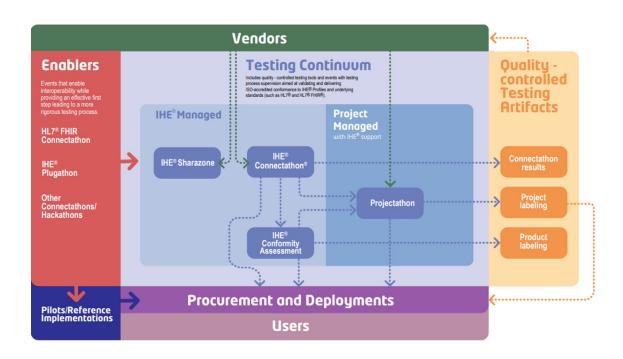
supplying projects with knowledge

facilitating implementation through testing

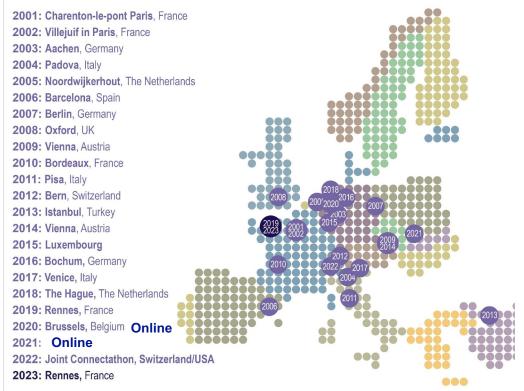
based on internationally proven concepts



Testing Ecosystem



Connectathons in Europe





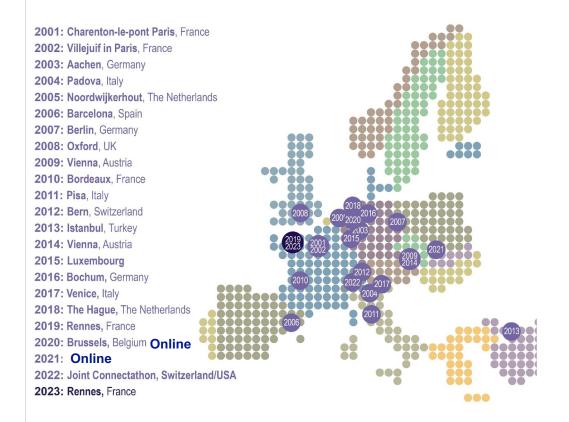
Connectathon 2023, Rennes

- 52 organizations from 18 countries
- o 66 systems under test
- 208 participants
- 47 monitors from 13 countries
- 85 tested IHE Profiles
- 1876 tests executed





Connectathons in Europe





Connectathon 2023, Rennes

- 52 organizations from 18 countries
- o 66 systems under test
- 208 participants
- 41 monitors from 13 countries
- 57 tested IHE Profiles
- 1876 tests executed





Top 10 Tested IHE Profiles*

- XDS.b Cross-Enterprise Document Sharing
- ATNA Audit Trail and Node Authentication
- CT Consistent Time
- SWF.b Scheduled Workflow
- MHD Mobile access to Health Documents
- RMD Remove Metadata and Documents
- XDS-I.b Cross-Enterprise Document Sharing for imaging
- WIA Web-based Image Access
- PAM Patient Administration Management
- XUA Cross-Enterprise User Authentication

* In the number of tested actors





- Driving the development of Gazelle
- Projectathons
- Outsourcing of Connectathon operations in Europe to Catalyst
- Consulting





- Driving the development of Gazelle
- Projectathons
- Outsourcing of Connectathon operations in Europe to Catalyst
- Consulting

Connectathon 2024

- Together with IHE Italy in Trieste
- June 3-7 (the week after HIMSS Europe in Rome)
- Parallel "Experience Days" conference





IHE SHARAZONE

- 24/7 platform to access vendor's <u>DICOM</u> objects for testing and report back test results to the vendor
- Similar legal trust framework as the Connectathon

Since November 2021

- 13 vendors as members
- 34 creator systems registered
- 21 consumer systems registered
- over 100 test reports received for creator systems
- regular SHARAZONE community meetings



IHE Experience Days

- 2 packed days
- more than 30 speakers
- o more than 80 participants



Certified Professional Programme

- Professional certification, supporting individuals in demonstrating their IHE knowledge
- 26 passed the IHE CPP exam during the Connecathon in Rennes (22 last year)



Al Interest Group for Imaging

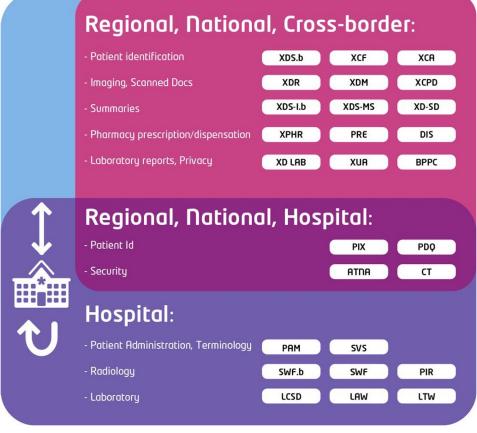
- Educate AI start-ups on IHE
- Identify and define workflows for the use of AI in imaging
- Request additional Profile development or extensions as necessary

Multi-country Working Group on Image Information Sharing

- Exchange experiences among active national deployments and seek increased consistency
- Request additional Profile development or extensions as necessary



The European Affairs Committee of IHE-Europe liaises with the Commission and its Directorates to bring IHE's expertise on standards-based interoperability specifications, testing strategies and testing methods as well as evaluation processes to the table.



IHE Profiles recommended by the European Commision in 2015



IHE-Europe engagement:

- Support the extension of the eHDSI specifications on the Electronic Health Record exchange Format EEHRxF beyond PS; eP/eD to medical images and reports, laboratory results (other extensions: discharge letters and rare diseases)
- Support specification with the Art Decor tool and test tools

- Bring IHE Methodology for the testing of the EEHRxF specifications
- Use of IHE Profiles for transport services:
 - Imaging report:XDS, XDS-I, XDR, XDR-I, XDM, XCA, XCA-I, MHD
 - Laboratory result report: XCA, XDR
 - Patient Summary: MHD, XDS/b, MHD(S), XCA
 - Hospital discharge report: XDS, XCA, MHD(S)
- XDS Metadata
- Integration of CDA testing tools into Gazelle platform for all project specifications



IHE-Europe engagement:

- Support the implementation of IDMP (Identification of Medicinal Products) in the EHDS by
 - \circ $\,$ contributing to the test strategy
 - \circ coordinating the test activities between the work packages
 - \circ providing test tools

- IHE is bringing methodology and rigor to be applied to the UNICOM Test Lab Use Cases (Patients Facing Apps, NCA to NCPeH, Submission of variation, Update to MPD (Medicinal Product Dictionary), Submission in eDispensation)
- Integration of CDA testing tools into Gazelle platform with IDMP constraints for eP, eD and Patient Summary





ly health @ EU

IHE-Europe engagement:

- Creating a network to co-create the EEHRxF: •
 - Defining a member state readiness model 0
 - Education of industry 0

- IHE methodology brought to build a Readiness Model to assess member states readiness to the adoption of the EEHRxF
- IHE is bringing the Industry ecosystem to the project XpanDH by:
 - Making the industry world aware of the XpanDH project (Webinars. Presentation during the Ο Connectathon 2023)
 - Bringing together the vendor community that will integrate the EEHRxF in their future solutions Ο





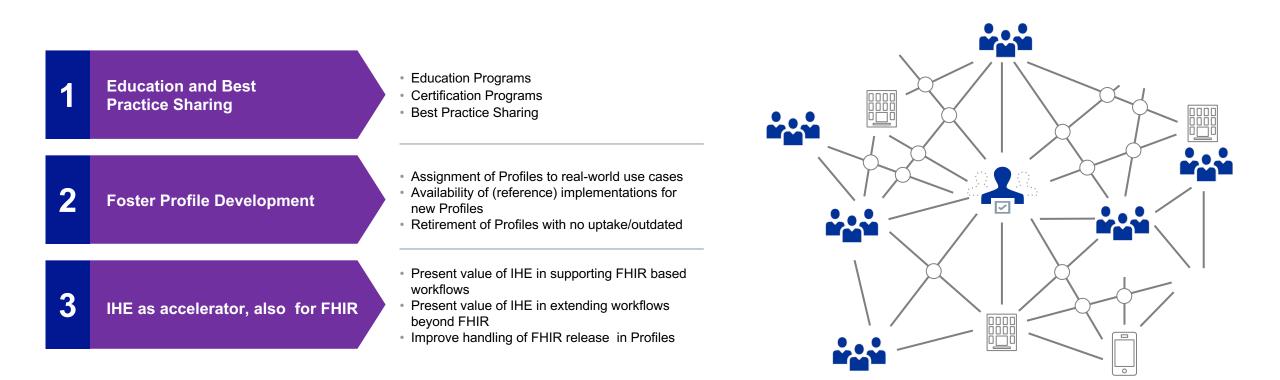
Planned IHE involvement:

- Contribute to the test concept
- Project Kick Off January 2024 during the Athens Digital Health Week

- Integration of CDA testing tools into Gazelle platform
- Expertise in organizing projectathons
- Expertise in setting up a certification program



How can IHE improve?







Thank you for your attention

10/10/2023