

**IHE**<sup>®</sup>  
EUROPE

**SYMPOSIUM**

**THE HAGUE**  **APRIL 17 2018**

## **IHE-Europe - A Trusted Partner for Health Information Exchange**



### **Jürgen Brandstätter**

Co-chair, IHE Europe

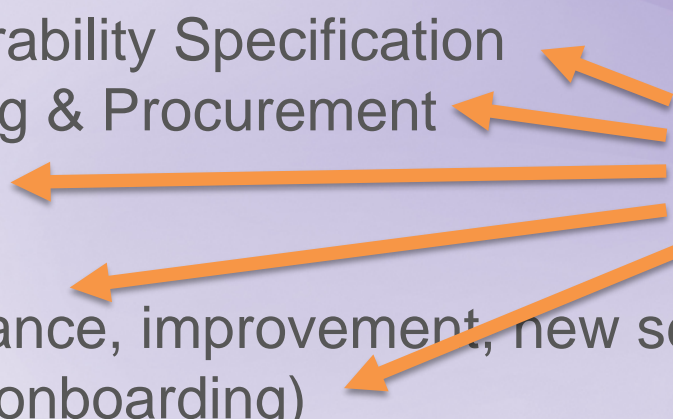
Co-chair, Pharmacy Planning committee

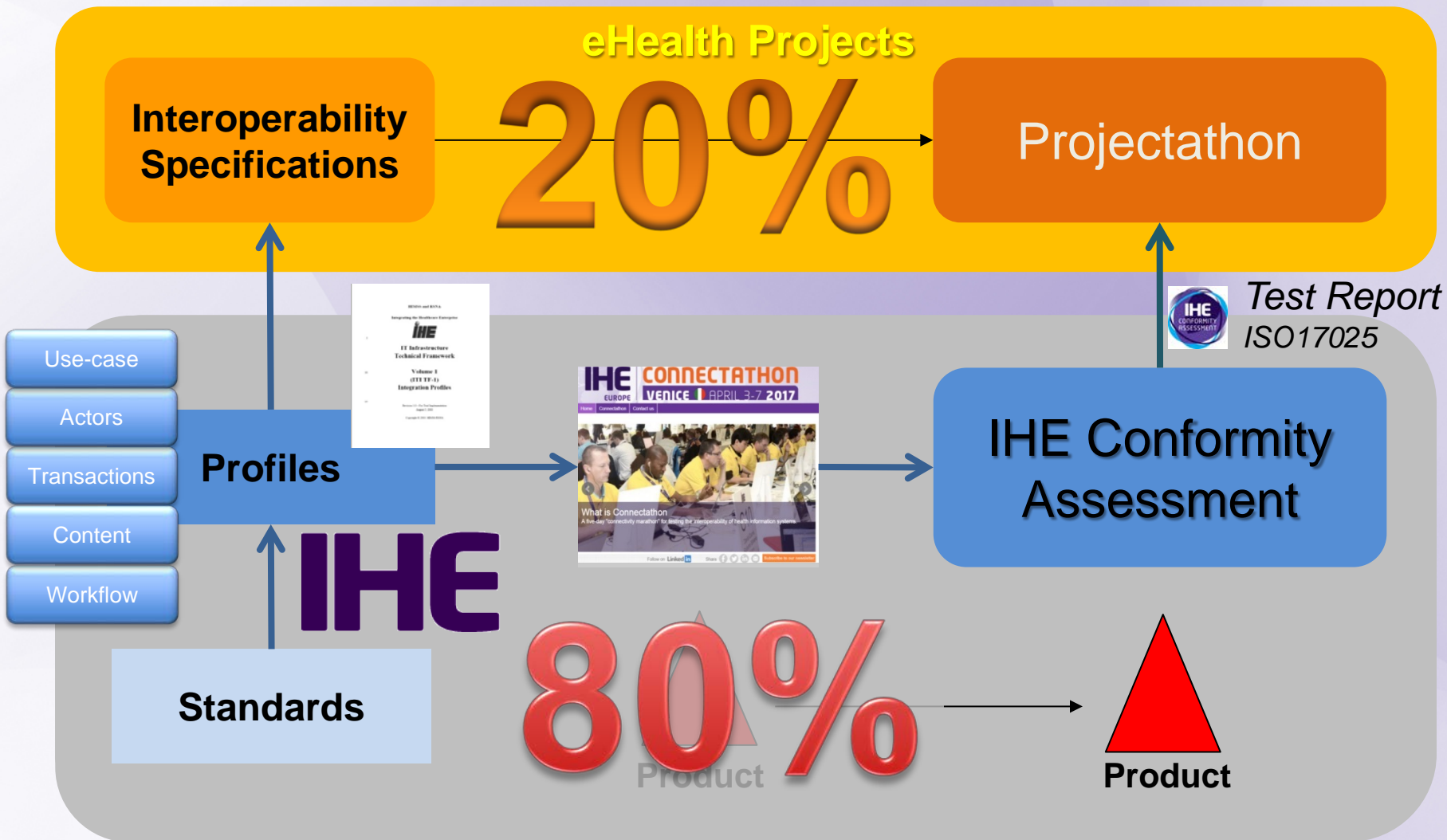
Co-chair, Global Deployment Coordination Committee (GDC)

Member, IHE International Board

- Regional Deployment Committee founded in 2000
  - <http://www.ihe-europe.net>
- Overarches European National Deployment Committees
  - Austria, Belgium, Finland, France, Germany, Italy, Luxembourg, Spain, Switzerland, The Netherlands, Turkey, United Kingdom
- Several committees
  - IHE Services
  - EU Affairs
  - MarCom
- Organizes the European CAT
  - Since 2001 in Paris
  - 2019: Rennes, France



- **Establishing a HIE is a huge financial investment!**
    - To get full coverage all HCPs have to be connected
    - **Long-term investment, must be done sustainable**
  - **Cost-factors („technical“ ones only)**
    - Initial
      - Interoperability Specification
      - Tendering & Procurement
      - Testing
    - Ongoing
      - Maintenance, improvement, new services
      - Testing (onboarding)
- Each % effort you save here is big €**
- 



# A partner for TransBorder medical exchanges in Europe

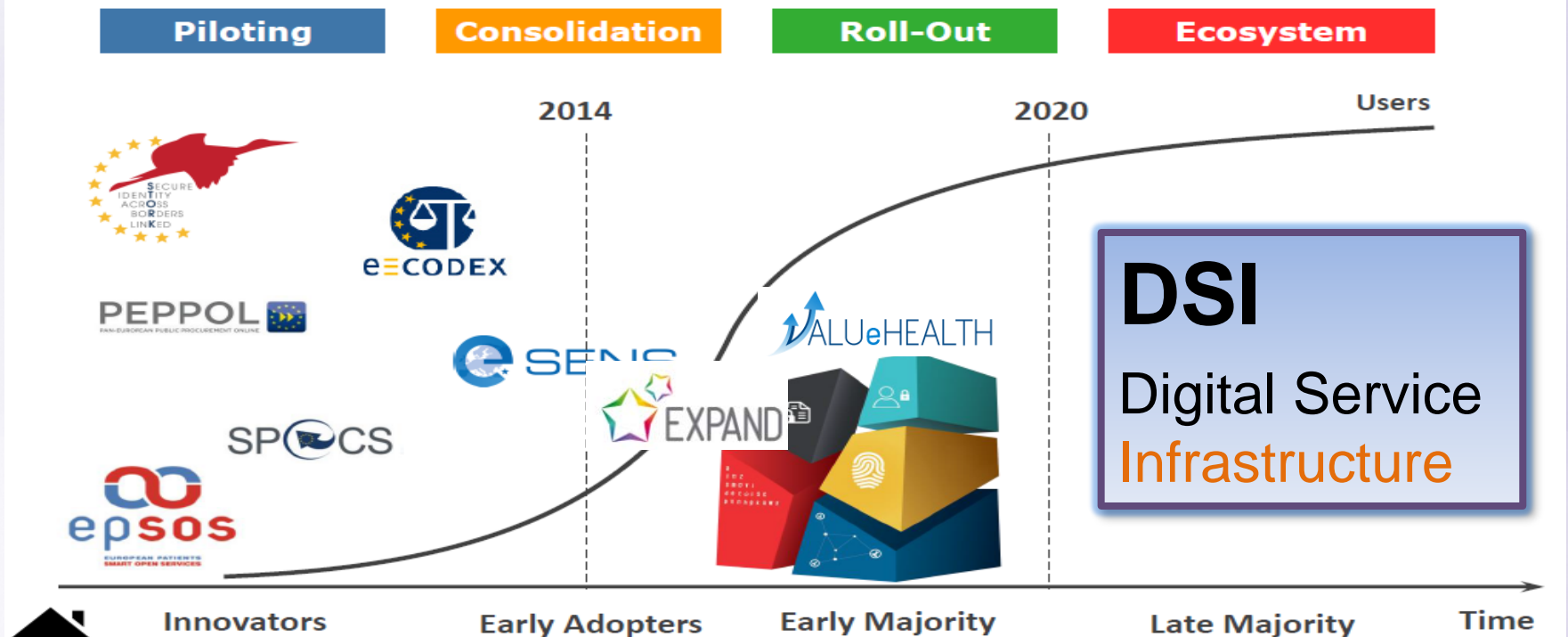
- Started in 2008, **epSOS** project (European Patient – Smart open Services) proposes services for exchanging Patient Summary and ePrescription
  - IHE-Europe contributes to the design and specifications and built the testing environment, test plan and test methods
  - IHE-Europe organised several projectathons (5) to test the „National Contact Points (NCP)“ of the European countries
- In 2014, with the end the epSOS project, the European project **EXPAND** aims to fill the gap between piloting and deployment and maintain the assets before the establishment of the Connecting Europe Facility (CEF)
  - IHE contributed to the maintenance of the specifications and organised projectathons
- With **eHDSI**, eHealth Digital Service Infrastructure is the initial deployment and operation of cross border services
  - In the continuity of previous services, IHE-Europe provides the test platform and transfers the knowledge and expertise to the eHDSI solutions provider team
- IHE-Europe is the partner of European countries and European Commission to support the development of the Cross Border data exchanges



**First eHealth large scale deployment:** European Patient Smart Open Services  
2008 – 2014  
36,5 Mio € spent  
25 European countries

Creating a #DigitalSingleMarket

The building blocks represent a massive investment since their creation by the Large Scale Pilots. As their user base grows, the Commission is already working on their sustainability beyond CEF.



Source: Gerald Cultot, European Commission, Keynote speech at IHE World Summit 2016

- **Harmonisation of IHE metadata attached to a medical document (XDS metadata)**
  - 9 Countries (BE, DE, FI, FR, GE, LU, NL, UK, USA)
  - Developing a guideline to explain to the organisations wanted to implement HIE using IHE profiles with the support of IHE-Europe
  - By supporting countries, IHE has provided
    - All the necessary expertise to the countries for developing the guideline
    - A forum for sharing experiences on HIE implementation
    - To increase harmonisation in Europe
  - IHE-Europe contributes to IHE International „IT – Infrastructure (ITI)“ committee to develop from this guideline an international guideline supporting any HIE worldwide

- **Antilope and EURO-CAS European projects**
  - Development of the Antilope refined eHealth Interoperability Framework (ReEIF)
  - Aim is to harmonize and to take up of IHE profiles and standards
    - eEIF was adopted by the eHealth Network in April 2015
    - Decision by the EU Commission to endorse 27 IHE profiles for public procurement
    - Development of the Conformity Assessment Scheme for Europe that can be use for certification by Europe or European countries (in progress)
  - Recognition of the framework by the European Commission and European countries
    - ... that will concur to the development of the DigitalSingleMarket in eHealth



- **Conformity Assessment Scheme for Europe**

- [www.euro-cas.eu](http://www.euro-cas.eu)
- EU-funded, 17 partners, 12 countries
- 2016 - 2018



- **Main objective: Establishment of a sustainable scheme for eHealth conformity assessment in Europe**

- Development, maintenance, execution process
- Implementation guides
- Governance model ensuring transparency and shared ownership
- Business model ensuring sustainability



- **Commission Decision 2015/1302**, published on 31 July 2015, identifies **27 IHE Integration profiles for referencing in public procurement**  
[http://eur-lex.europa.eu/legal-content/EN/TXT/?uri=OJ:JOL\\_2015\\_199\\_R\\_0011](http://eur-lex.europa.eu/legal-content/EN/TXT/?uri=OJ:JOL_2015_199_R_0011)
- These IHE profiles have the potential to increase interoperability of eHealth services and applications to the benefit of patients and medical community
- The 27 IHE profiles should therefore be identified as ICT technical specifications eligible for referencing in public procurement

### Profiles assessed for conformity

LAW - Laboratory Analytical Workflow  
PAM - Patient Administration Management  
PDQ - Patient Demographics Query  
PDQV3 - Patient Demographics Query HL7 V3  
PIV - Point-of-Care Infusion Verification  
PIX - Patient Identity Cross-Reference  
PIXV3 - Patient Identity Cross-Reference HL7 V3  
XCA - Cross Community Access

The IHE profiles identified by the European Commission are already included in the IHE Conformity Assessment

The next decade's challenge:

**Cost-efficient** and **fast**  
interoperability **testing**



- **Electronic Patient Record**
  - EPR Reference Environment
- **IHE Europe is supporting eHealth Suisse**
  - in establishing a reference electronic patient dossier testing environment
- **IHE Europe via IHE services**
  - Provides trusted test tools for swiss IHE profiles extensions
  - Providing projectathon operations
  - Provide a validated and operational testing platform (Gazelle)

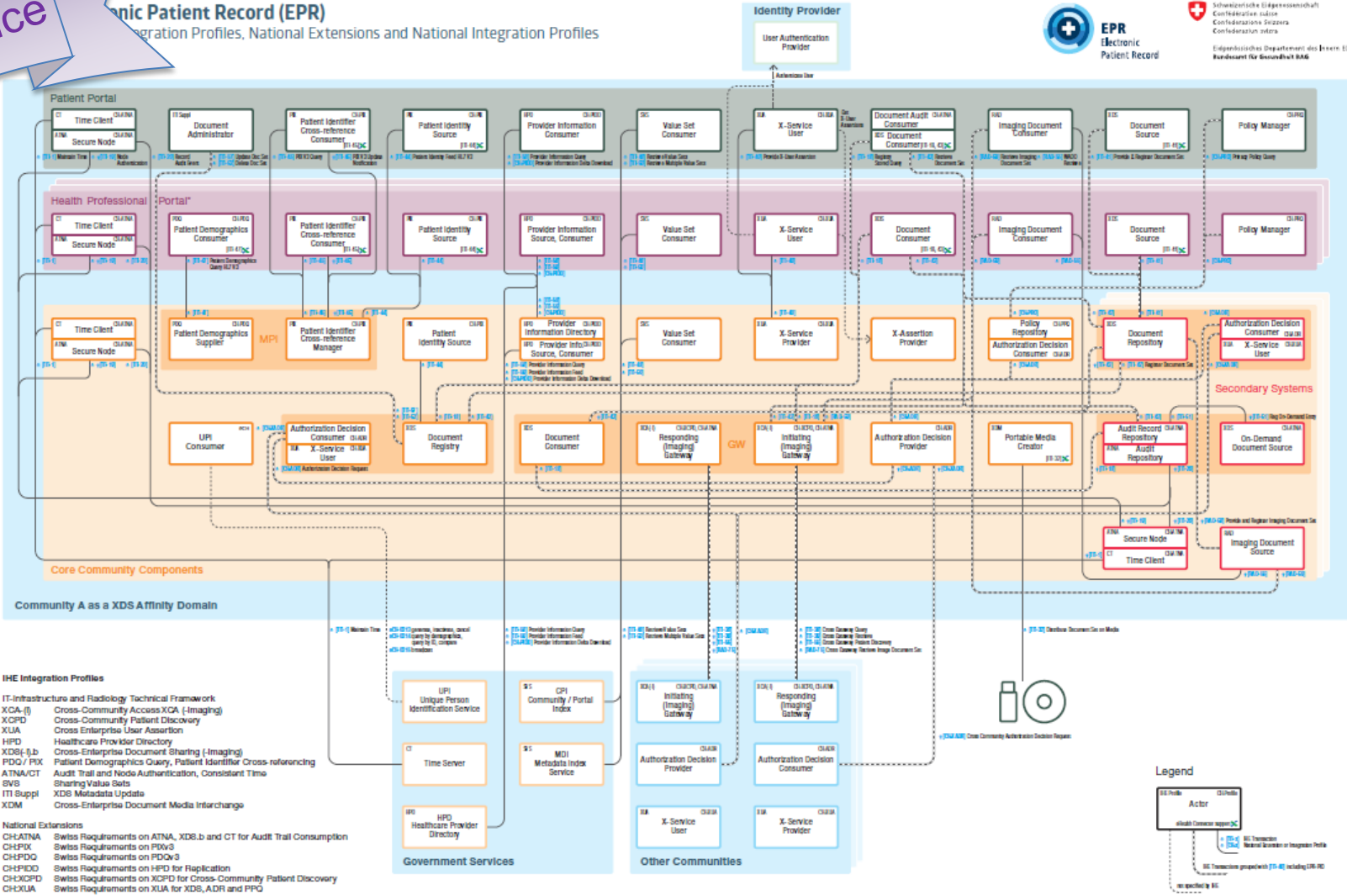
**IHE BEST  
Practice**

## Electronic Patient Record (EPR)

Integration Profiles, National Extensions and National Integration Profiles



Schweizerische Eidgenossenschaft  
Confédération suisse  
Confederazione Svizzera  
Confederaziun Svizra  
Eidgenössisches Departement des Innern EDI  
Bundesamt für Gesundheit BfG



\*Primary Systems can reference the same actors as a Health Professional Portal

IHE BEST  
Practice

## 1<sup>st</sup> Projectathon September 2017



- EPD Reference platform built on IHE Gazelle®
- Platform to be used for certification in 2020

- **Gazelle Testing tools for Arsenal.IT**
- **IHE Europe is supporting Arsenal.IT**
  - by providing a testing platform for interoperability use cases
- **IHE Europe via IHE services**
  - Provide a validated and operational testing platform (Gazelle)



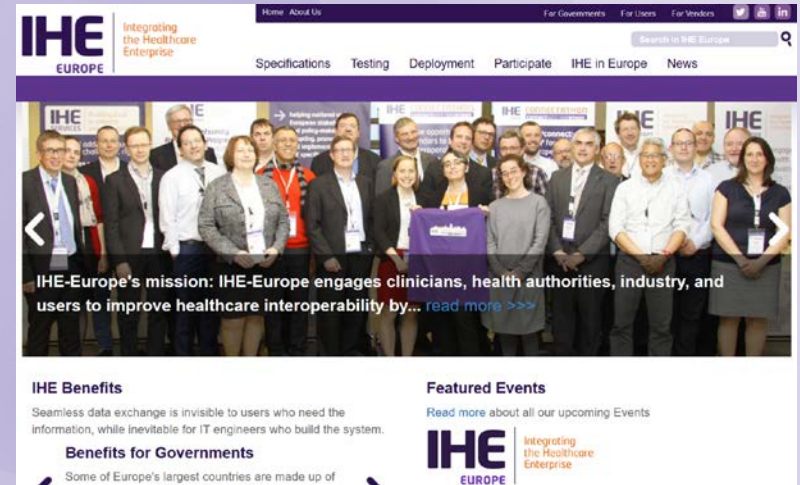


# Feedback on Gazelle



- A valid and structured **method for certification** of software systems (keeping log files, timing, etc.)
- Configurable to **add regional technical specs** as new integration profiles
- Organize **use cases in test cases** and test steps giving a clear and structured process to vendors
- **Guidance to developers**
- Keeps **track of test execution**, test status evolution
- **Proxy tool** shows the real sequence of transactions between systems, the actual exchange of messages and possible errors
- **EVS Client Validator** gives vendors a rapid feedback about the correctness of messages providing a precise result, with the details of errors or the positive outcome.

- IHE Homepage
  - <http://www.ihe.net/>
  - <http://www.ihe-europe.net/>
- IHE Wiki
  - <http://wiki.ihe.net/>
- IHE Europe Social Media
  - YouTube channel: <https://www.youtube.com/user/IHEIntl>
  - IHE Webinars: <http://www.ihe.net/Webinars/>
  - Twitter: <https://twitter.com/IHEIntl>
- Google groups
  - <https://groups.google.com/forum/#!search/ihe>



**IHE**

Integrating  
the Healthcare  
Enterprise

Changing the Way Healthcare **CONNECTS**

<http://www.ihe.net>



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