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Trillium II

Reinforcing the Bridges and Scaling up EU/
US Cooperation on Patient Summary

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HL7 Foundation: who we are..

HL7 the best and most widely-used eHealth standards since 1986

- ➔ HL7 v2
- ➔ Clinical Document Architecture
- ➔ CIMI
- ➔ HL7 FHIR

19 National Affiliates in Europe (~38 worldwide)

European HL7 foundation established in 2010

European Funded Research Projects

Annual HL7 in Europe Newsletter

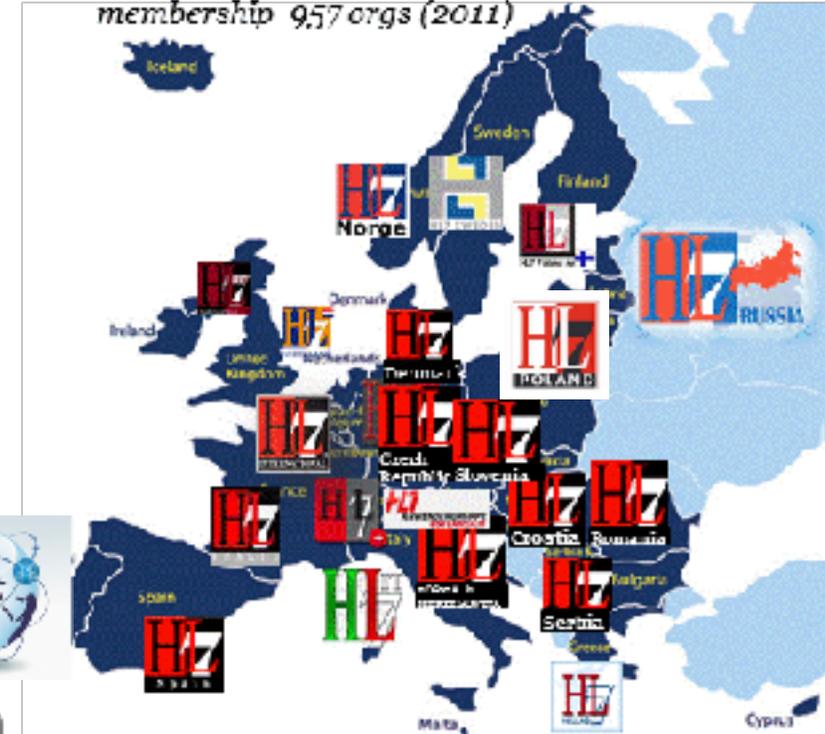
➔ Website: www.HL7.eu

eHealth policy & Research

SDO Joint Initiative Council



European HL7 affiliate membership 957 orgs (2011)





Mission EU/US Memorandum of Understanding (May 2010)



“To support an **innovative collaborative community** of public- and private-sector entities working toward developing, deploying, and using eHealth science & technology

- to **empower** individuals
- to **support** care
- to **advance** clinical outcomes
- to **enhance** patient safety, and
- to **improve** the health of populations.”



TRILLIUM BRIDGE

Bridging Patient Summaries across the Atlantic

RECOMMENDATIONS FOR POLICY CONVERGENCE



JULY 2015

Achievements of Trillium Bridge 2013-2015

- **Gap Analysis**
 - Compared patient summary specifications in EU/US
 - Shared clinical elements: problems, medications, allergies
- **Interoperability Assets**
 - Established a terminology prototype CTS-2 service: http://extension.phast.fr/STS_U
 - Developed Patient summaries Transformer: <http://informatics.mayo.edu/trillium-bridge>
 - Identified Gaps in EU/US IHE profiles Patient Identity & Document Query/Retrieval
- **Validation activities: 4 EU countries/ Kaiser Permanente**
 - EU/US Marketplace; HIMSS 2015; IHE Connectathon 2015, eHealthWeek14,15
- **Feasibility study:**
 - Reflected upon standards, cross-vendor integration, incentives, clinical research, security and privacy, innovative business models, education



Recommendation:

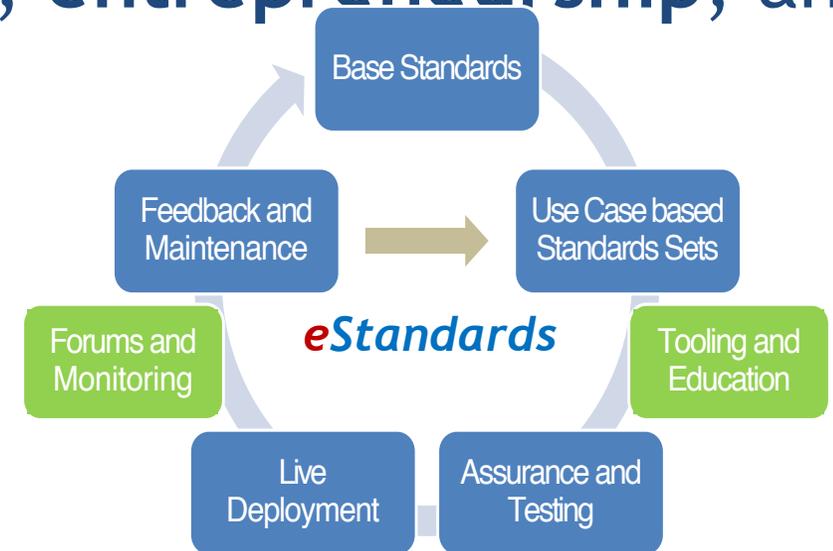
“Advance an International Patient Summary (IPS) standard to enable people to **access and share their health information** for emergency or unplanned care anywhere and as needed. At minimum the IPS should include **immunizations, allergies, medications, clinical problems, past operations and implants.**”

Vision of the global eHealth ecosystem

- people have navigation tools for safe and informed health care
- interoperability assets fuel creativity, entrepreneurship, and innovation

eStandards will:

- nurture digital health innovation
- strengthen Europe's voice & impact
- enable co-creation and trusted provider-user relationships





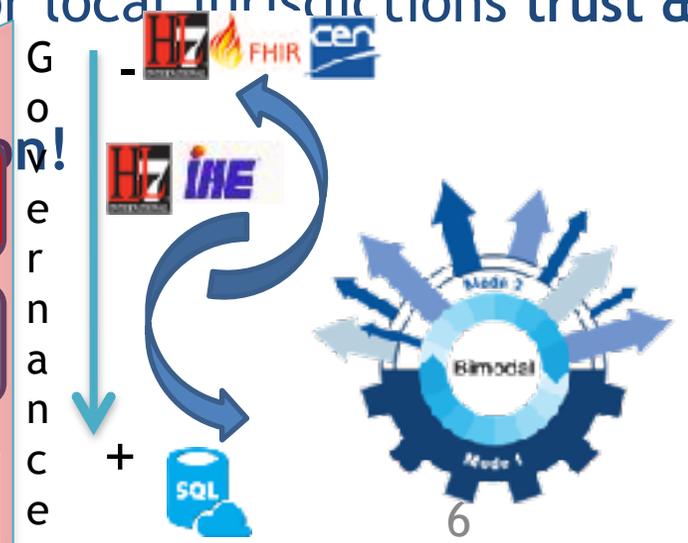
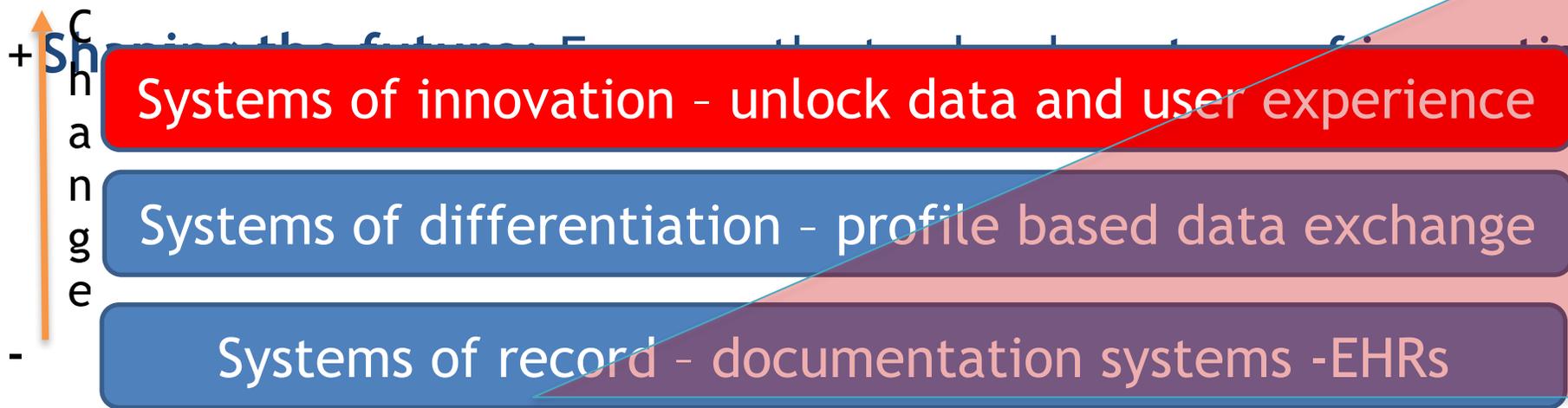
www.estandards-project.eu

Innovation is where standards are most needed: to unlock data for trust & flow



Today:

- Massive health data accumulated in silo EHR systems serving documentation purposes. We need to move from passive documentation to active use of information and knowledge creation: **activation!**
- Patient summaries defined at the macro level: cross-border exchange for emergency or unplanned care at a national level. **Need to address communities and individuals!**
- Standards and profiles address a predefined exchange of information. Need flexible use of available content and structure, recognizing national, regional or local jurisdictions trust & flow!

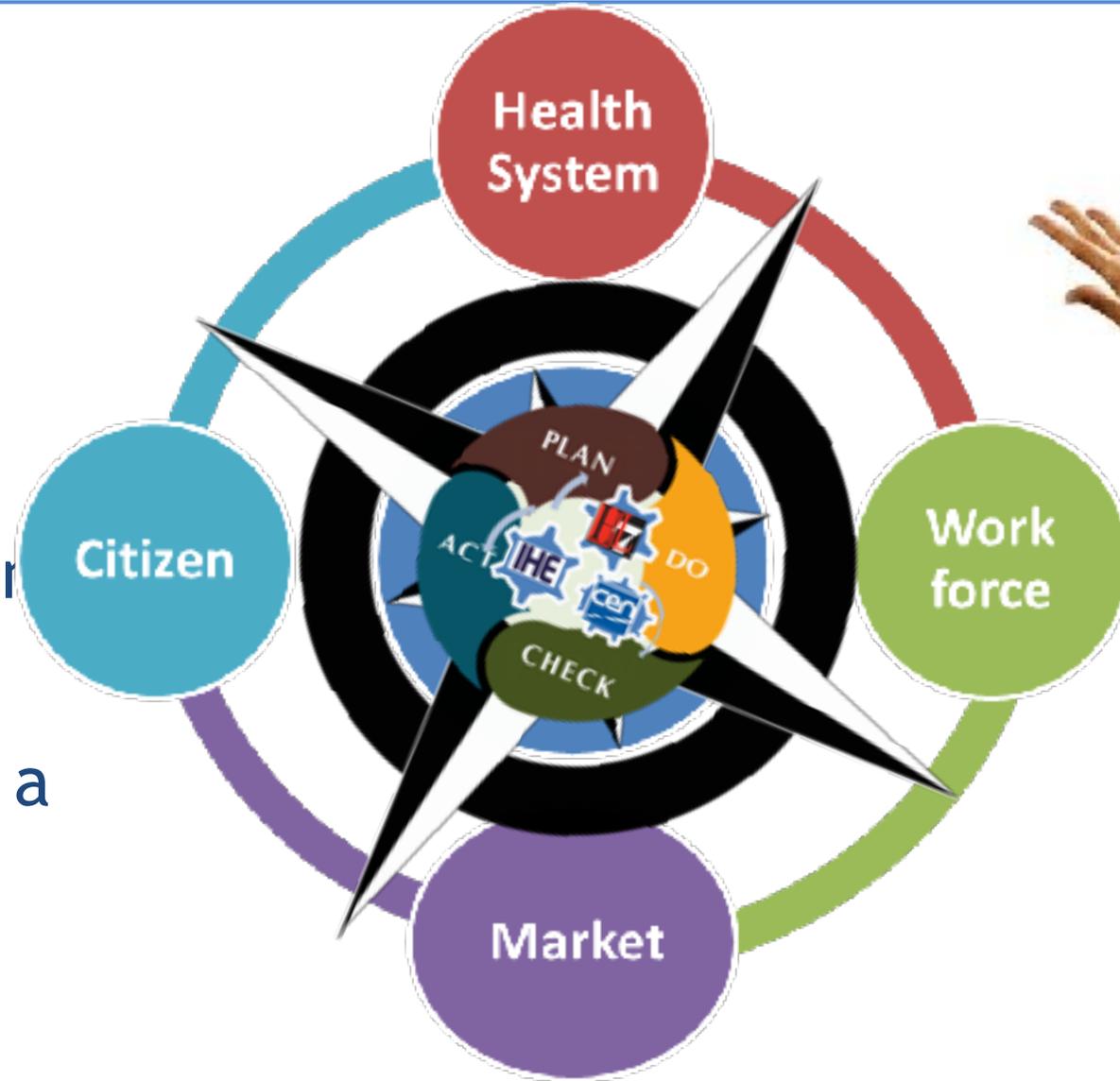




What do we need to make digital health work with standards and interoperability?

www.estandards-project.eu

- **Co-create**
 - to make it real using standards
- **Governance**
 - to make it scale for large-scale deployment
- **Alignment**
 - to make it flourish in a sustainable way





Scaling-up the use of patient summaries



- Consider the patient summary as
 - active window to a person's health data across locations and jurisdictions,
 - entry point with key information related to the current situation and to navigate more detailed data



- Trillium-II will select and elaborate
 - resources to accelerate implementation and sharing of experience
 - new situations for the use of patient summaries



- Establish the case of the patient summary as a citizen's right and enabler, and validate the global role of the IPS in different contexts
- Consult with key stakeholder groups to identify needs, use cases, and promote patient summary standards
- Assess key enablers and success factors for adoption of the international patient summary for benefit realization
- Collect and Revise educational and training material of relevance to the international patient summary





Objectives Trillium Bridge II (2017-2019)



- Engage and educate stakeholders on the social value of patient summary standards
 - What are the use cases beyond emergency and unplanned care?
 - Is the proposed content what we need?
 - What are the flows of information?
 - How is information governed?
 - What are the standards?
- Establish a Global Community of Practice for Digital Health Innovation
 - Co-create situations of using the patient summary
 - Bridge patient summary projects and initiatives
 - Develop, Collect, Assess learning resources
 - Engage mobile Health companies & app developers fostering innovation & inform health policy
 - Contribute feedback to standards organizations advancing Collaborative Standards Governance





Patient summary: make it personal?



- Listening to the patient and the family
 - **Quality assurance**: medication reconciliation
 - **Health goals**: tracking progress and identifying health trends
 - **Early warnings**: frailty in the elderly
- Navigating digital health data: portability, trust, and flow
 - Chronic disease management
 - Research networks: rare diseases
 - **Refugees and immigrants**
 - Medical Tourism
- Tracking the health needs in communities
 - Disaster and emergency response
 - Healthy communities





Scaling-up the use of patient summaries

- In case of *Emergency*, the patient summary is there in our mobile phone and can be understood anywhere in the world
- *Emergency response teams* can use the patient summaries to capture accurately the aggregate and individual needs of a community hampered by disaster.



Trillium-II's ambition touches individuals through their mobile hub and the community through an aggregating dashboard making the most of our data-driven economy.

Industry Support



Healthcare Information and Management Systems Society



SNOMED International



BEIJING 2022



TOKYO 2020



PYEONGCHANG 2018

Standards Development Organizations

- ISO/TC215 – Worldwide standards for Health Informatics
- Joint Initiative Council – collaborative of international health IT SDO's
- IHE International – world leader in healthcare interoperability standards
- HL7 - standards for the exchange, integration, sharing, and retrieval of electronic health information
- GS1 – world leader in identification standards



Global Community of Digital Health Innovation Practice



Let's join forces to make digital health happen!

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