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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

HL7 Vision: A world in which everyone can securely access and use the right health data when and where they need it.
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.”
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_UI](http://extension.phast.fr/STS_UI)
  - Developed Patient summaries Transformer: [http://informatics.mayo.edu/trillium-bridge](http://informatics.mayo.edu/trillium-bridge)
  - Identified Gaps in EU/US IHE profiles Patient Identity & Document Query/Retrieve

- **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
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!

Shaping the future: Focus on the top level - systems of innovation!

- **Systems of record** - documentation systems - EHRs
- **Systems of differentiation** - profile based data exchange
- **Systems of innovation** - unlock data and user experience

Governance - FHIR - CEN - IHE - Bimodal - TIE - Change

www.estandards-project.eu
What do we need to make digital health work with standards and interoperability?

- **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

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

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Let's join forces to make digital health happen!

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Global Community of Digital Health Innovation Practice