

European Convergence Workshops

First European Convergence Workshop to build a pan-European eHealth Infostructure

Semantics and ontologies - opportunities and challenges for
convergence

Prof. Christian Lovis, MD MPH



EFMI STC 2010, Reykjavik, Iceland

3rd June 2010

The *Convergence* concept

- § Better exploit EU funded projects
- § Improve consensus between projects
- § Regular Convergence workshops on agreed topics of common interest
- § Any subject: technic, human, semantics, legal, processes, etc...



<http://www.sjerk.clara.net/drawn/converge.htm>



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1st Convergence Workshop, STC2010, Reykjavik, 3 June 2010



1st Convergence Workshop semantics and ontologies

- § Initiator: *Prof. Christian Lovis*, Geneva University Hospitals, scientific coordinator of *DebugIT*
- § EU FP7 and CIP projects
- § Full day meeting
 - first half day closed to projects' representatives
 - the afternoon open to participants of the conference
- § At EFMI STC2010 conference
 - “Seamless care - safe care:
The challenges of interoperability and patient safety in healthcare”
- § In Reykjavik, on 3rd June 2010
- § The conference:
 - Great opportunity to focus on interoperability and convergence
 - Many sessions on semantics
 - Joint meeting HL7 and GS1, etc.

<http://www.sky.is/efmi-stc-2010-.html>



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1st Convergence Workshop, STC2010, Reykjavik, 3 June 2010



Participating projects

§ FP7 projects, focus on patient safety

- **DebugIT** - "Detecting and Eliminating Bacteria Using Information Technology", Dr. Dirk Colaert, Agfa Healthcare, Prof. Dr. Christian Lovis, Geneva University Hospitals
- **PSIP** - „Patient Safety through Intelligent Procedures in Medication“, Prof. Dr. Régis Beuscart, Centre Hospitalier Universitaire de Lille
- **EU-ADR** - „Exploring and Understanding Adverse Drug Reactions by Integrative Mining of Clinical Records and Biomedical Knowledge“, Prof. Johan van der Lei, Erasmus UMC

§ CIP projects

- **epSOS** - „Smart Open Services for European Patients“, Fredrik Linden
- **CALLIOPE** - „A European thematic network for eHealth interoperability“, Zoi Kolitsi (coord.), Michèle Thonnet (Chair WG EU eHealth Interoperability Roadmap)



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Participating projects

- § All address semantic interoperability challenges
- § All FP7 patient safety projects develop
 - interoperable platforms / infrastructures and
 - federated virtual distributed data bases
 - ontologies, knowledge management platformsthat could be converging parts of a future
 - *pan-EU eHealth (research) infostructure*
- § For instance,
 - in EU-ADR eight databases containing medical records of more than 30 million European citizens are involved
 - DebugIT has developed a sophisticated interoperability platform with a service oriented architecture and a strong ontology



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Two parts

10:00-13:00 Part I

Convergence Workshop on semantics
and ontology

(EU projects by invitation only)

13:00-14:00 Lunch

14:30-16:30 Part II

Convergence Workshop – Towards a roadmap on semantic
interoperability

(Open to all STC participants)



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Objectives of the workshop

§ Objectives

- To share common concerns and
- Reach agreements – examples:
 - Options regarding drug terminology
 - all apply same approach to identify active substances and brand names
 - all use ATC for active substances, ...
 - All ontologies should be *OBO*-compliant (The Open Biological and Biomedical Ontologies - <http://www.obofoundry.org/>)
 - The need to define a core ontology, which then evolves driven by demand
- Resources and organisational issues

§ Proposed focus on

- Drug terminologies
- Ontology consolidation



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Registration

- § All participants to the “Convergence” workshop will be able to register to the EFMI rate of €200
- § A special rate of €120 for one day attendance reserved to the “Convergence” attendees
- § As it is not offered on the website, interested people would have to write directly to the PCO (Sky)

Contact:

Prof. Dr. Christian Lovis

Christian.Lovis@unige.ch



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