Welcome

Prof. Dr. Jürg Blaser, Präsident SGMI SSIM SSMI
Healthcare meets Innovation:

Happy Birthday!

30 years

SGMI SSIM SSMI

50 years

IMIA / International Medical Informatics Association
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Merci, les enthousiastes

Jean-Raoul Scherrer
Healthcare meets Innovation:

Happy Birthday!

Donald J. Trump Verifizierter Account
@realDonaldTrump

Make the EPDG great again!

06:39 - 15. 4. 2017

Gefällt 123.305.177
Retweets 24.270
Swiss Personalized Health Network

National initiative
- CHF 68 million / 2017-20

to promote and develop
- personalized medicine and health in Switzerland

to facilitate
- research projects
- including a system for a nationwide exchange of health-related data

Challenges

First national initiative for medical informatics
-> lessons to be learned
organization, governance, federalism, sustainability,
risk management, data access, monitoring, ethics, fairness

Hospital’s perspective
obtaining informed consent
processing costs for presenting data to researchers
governance of hospital’s data

Data
sufficient for finding patterns, training?
heterogeneous data acquisition and documentation
Organization

National level

SNSF

Swiss Biobanking Platform Project

Research Projects

mandates

SAMS

Management Office (MO)

operates

SERI

appoints

National Steering Board (NSB)

Executive Board (EB)

International Advisory Board (IAB)

Institutional level

Personalized Health Platforms

- Biomedical platforms — Universities/ETH, EPF
- Private hospitals — University hospitals
- Private companies — Public hospitals
- Public Health

Biobanking, biomonitoring related activities

- Genomics data
- Clinical data
- Patient data
- Citizen data

Interoperability standards

Technical level

Data Coordination Center (DCC)

- Data Expert Group (DEG)
- BioMedIT Network

Ethical Legal Social Issues (ELSiag)
Challenges – Accessing Distributed Data

Figure. Top level architecture. Using their individual IT structures, the Swiss University Hospitals can make their data accessible for research within the SPHN via a uniform bridge (common data provider interface) to the SPHN core infrastructure. Curated data access for research can then be granted via the SPHN research infrastructure in compliance with security and ELSI requirements.
Challenges – Accessing Distributed Data

Figure. Top level architecture. Using their individual IT structures, the Swiss University Hospitals can make their data accessible for research within the SPHN via a uniform bridge (common data provider interface) to the SPHN core infrastructure. Curated data access for research can then be granted via the SPHN research infrastructure in compliance with security and ELSI requirements.
Opportunities & Threats

Cyberattack «Wanna Cry»
13.05.2017

Stadt Zürich mit IT-Problemen
Patientendaten in Spitäler nicht verfügbar
20. März 2017 13:42; 20minutan.ch
Data Science

Human Resources

Search and competition for talents

Financial Resources

e.g.

‘Die Raiffeisen-Bankgruppe investiert 500 Mio Fr. in neue Informatiksysteme, 20.6.2017’

www.itmagazine.ch/Artikel/64939/Raiffeisen_macht_Geld_fuer_die_Informatik_locker.html
Scientific Assessments: Hope or Hype

Dermatologist-level classification of skin cancer with deep neural networks

A. Esteva et al; Nature 542, 115–118, 02/02/2017

IBM pitched its Watson supercomputer as a revolution in cancer care. It’s nowhere close

https://www.statnews.com/2017/09/05/watson-ibm-cancer/
Digitales Manifest für die Schweiz*

Übergabe an Bundesrat J. Schneider-Ammann durch ICTswitzerland

Worldwebforum Zürich, 24. 1. 2017

*Bericht zur digitalen Wirtschaft, 11.1.17

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*Bericht zur digitalen Wirtschaft, 11.1.17
Vision „eHealth 2025“

Von „Patient Care“ zu „Empowered Health“

Inputpapier für „eHealth Suisse“ (Koordinationsorgan Bund-Kantone)

Version 1.1 vom 05.08.2015

Strategie eHealth Schweiz 2.0
Entwurf / Anhörung 18. 9. - 10. 12. 2017

https://www.e-health-suisse.ch/de/politik-recht/strategische-grundlagen/strategie-ehealth-schweiz.html