Translational Medicine -
The Need for Integrative Informatics

Reinhold Haux
with acknowledgements to
- my colleagues from PLRI,
- from the GAL-project,
- from the eHealth.Braunschweig project,
- …

Peter L. Reichertz Institute for Medical Informatics
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my approach on …

… “exploring whether major paradigm changes redefine the known TM's barriers and what could be the role of integrative informatics in enabling interdisciplinary scalability needed to reach from bench to mainstream healthcare policy health care and population development” in this panel:

- to take 2 larger projects, where I am currently involved, as examples and
- to report on the lessons learned with respect to “…”
examples and lessons learned

• Example 1: the eHealth.Braunschweig project

• Braunschweig city and area: model region for patient-centered care

• project started in 2009
examples and lessons learned

project partners

1 City of Braunschweig
2 research institutes
5 hospitals
8 networks
8 health insurances
20 companies (SW, services, housing, ...)
25 GPs and local GP organisation
33 nursing homes and the 'Lebenshilfe'
35 (outpatient) nursing institutions
examples and lessons learned

project management

health care for senior citizens

health care management and communication platform

hygiene network

trauma network

advisory board
examples and lessons learned

Lower Saxony Research Network
Design of Environments for Ageing (GAL)

Information and Communication Technologies for Promoting and Sustaining Quality of Life, Health and Self-sufficiency in the Second Half of Life
examples and lessons learned

• Project started in 2008
• Objective: quality of life in the ageing society
  • Independence within one’s own residence
  • Development of systems for assisting elderly people, relatives and caregivers
  • Identification of threats
  • Support of care structures
• Approach: interdisciplinary research
  • Synergy of geriatrics, gerontology, economics, computer science, engineering, medicine, nursing science and special needs education
  • Survey of requirements and resources
  • Development, evaluation and assessment of exemplary assisting systems
examples and lessons learned
examples and lessons learned

Scenario 1: Personal activity and household assistant
Scenario 2: Monitoring of preventive and rehabilitation sports
Scenario 3: Sensor-based activity determination
Scenario 4: Sensor-based fall prevention and fall recognition

Cross-sectional topic 1: Technical platform for environments for ageing
Cross-sectional topic 2: IT architectures for new forms of care
Cross-sectional topic 3: Social, economic and psychological requirements and consequences
Cross-sectional topic 4: Right to information self-determination and data protection
some references


• Haux R et al. (GAL Research Network). The Lower Saxony research network design of environments for ageing: towards interdisciplinary research on information and communication technologies in ageing societies. Inform Health Soc Care. 2010; 35: 92-103.