Health
Informatics
TC251

Increasing Value of International HIT Standards coming together
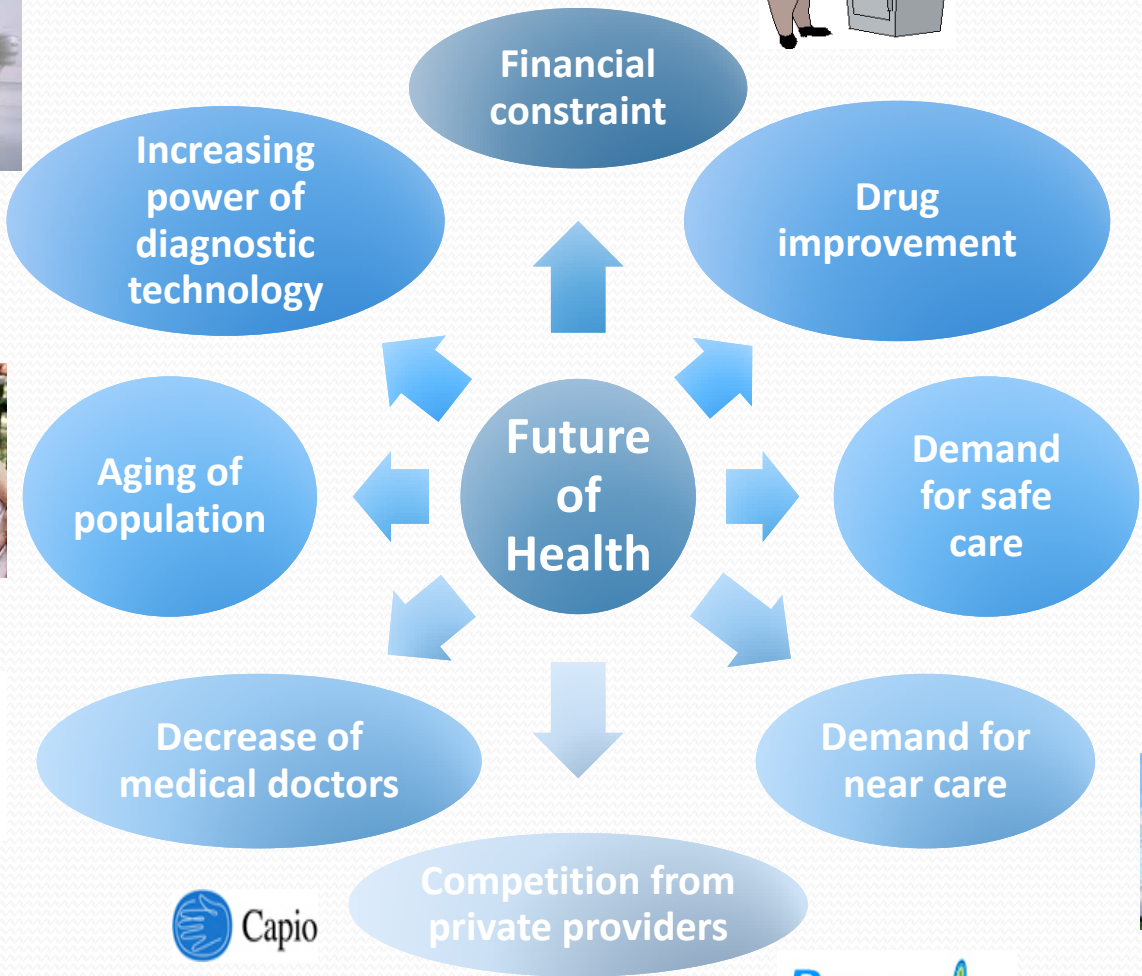
Prof.dr. Robert A. Stegwee

Chair, CEN TC251

Joint Initiative Council

Capgemini Consulting

UNIVERSITY OF TWENTE.

Agenda

- A vision of the future for Health and Health IT

- The need for standards in this vision of the future

- Standards Development Organizations working together
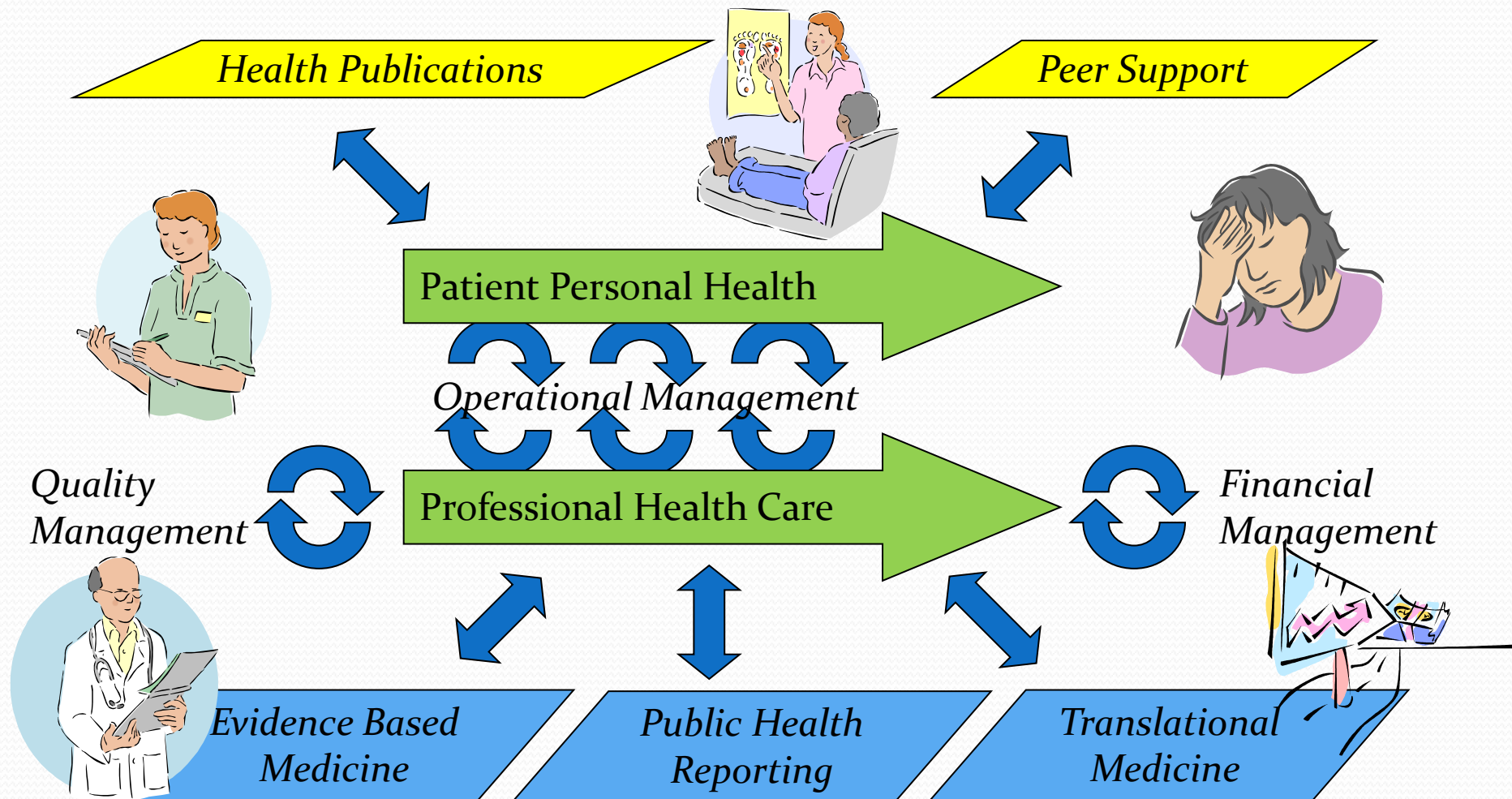
- My request to all HIT practitioners

A vision for the future

Financial constraint

Increasing power of diagnostic technology

Drug improvement

Future of Health

Aging of population

Demand for safe care

Decrease of medical doctors

Demand for near care

Competition from private providers

Capio

Bupa

MUUROLA

The process to support

- Healthcare will have to shift to patient centred community care
  - Keeping patients out of the hospital is the focus
  - Patient empowerment and prevention is key
  - Coordination between GP's, nursing homes, homecare, hospitals, and allied health professionals is imminent
  - Providing access to specialized knowledge becomes the best way to insure high quality care

Framework for Health Information

Health Publications

Peer Support

Patient Personal Health

Operational Management

Quality Management

Professional Health Care

Financial Management

Evidence Based Medicine

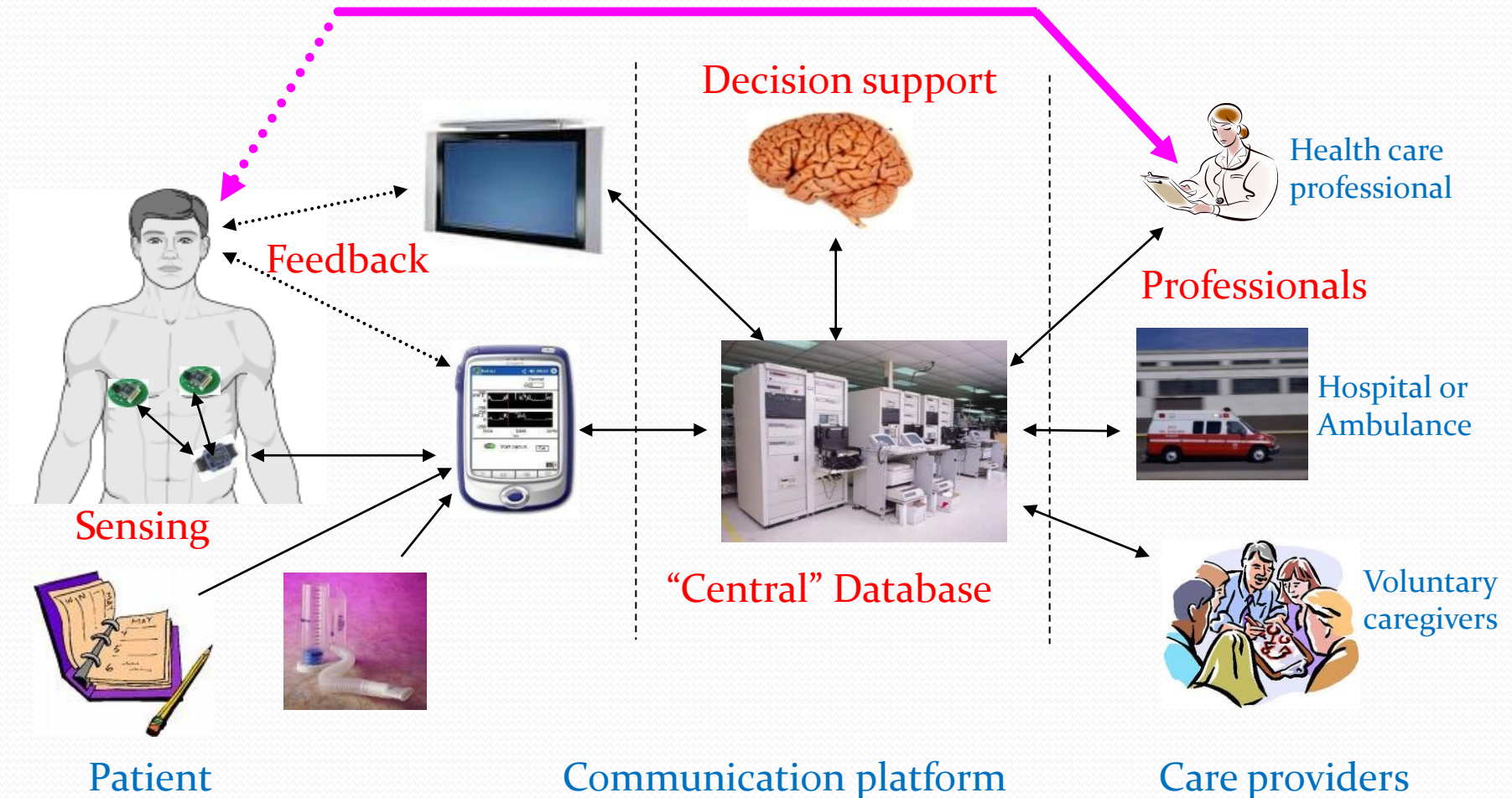Public Health Reporting

Translational Medicine
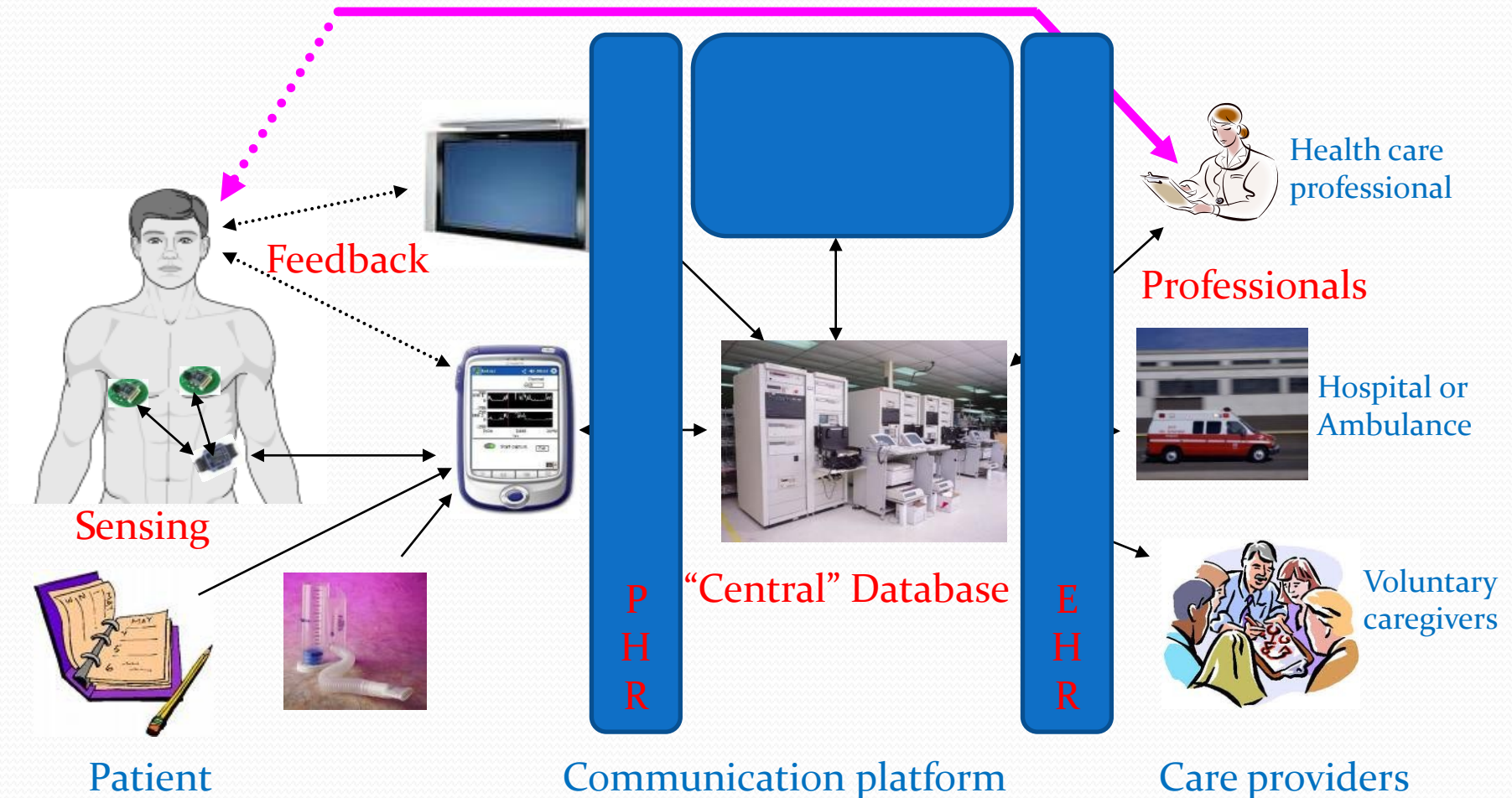
Some key characteristics

- Pro-active role of the patient
- Coordination of Patient Health and Professional Care
  - Sharing of information: homecare and selfcare
  - Sharing of care pathways: joined-up patient care
  - Patient self service: efficient and effective
- Closed loop quality and financial control
- Secondary use of data

- Tremendous effort in thinking and working differently
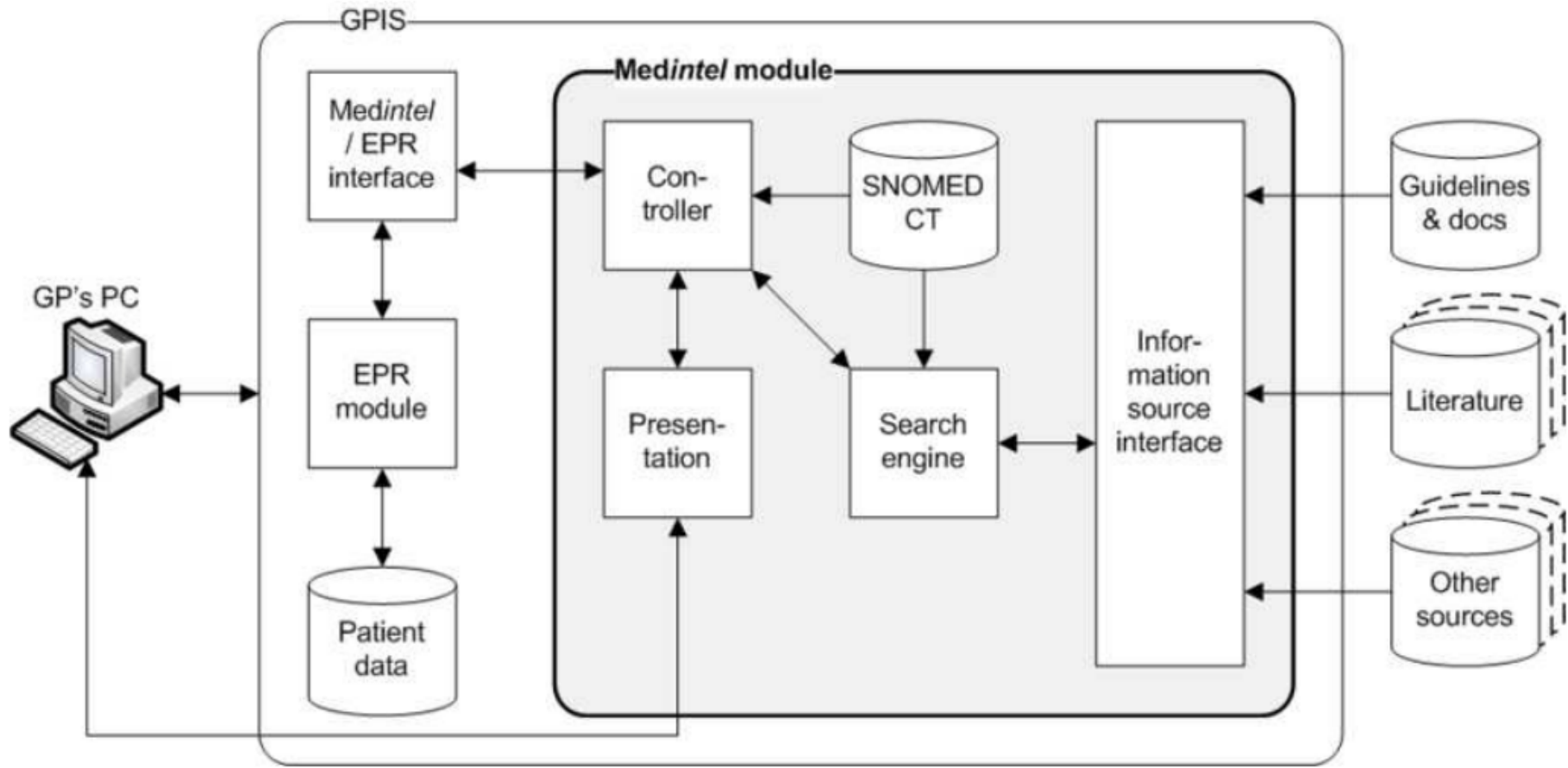
The need for standards

Generic Telemedicine System

Decision support

Health care
professional

Feedback

Professionals

Sensing

Hospital or
Ambulance

"Central" Database

Voluntary
caregivers

Patient

Communication platform

Care providers

(Hermens, 2008)

Integrated Telehealth System

Feedback

Sensing

Patient

P
H
R

"Central" Database

E
H
R

Communication platform

Health care
professional

Professionals

Hospital or
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Voluntary
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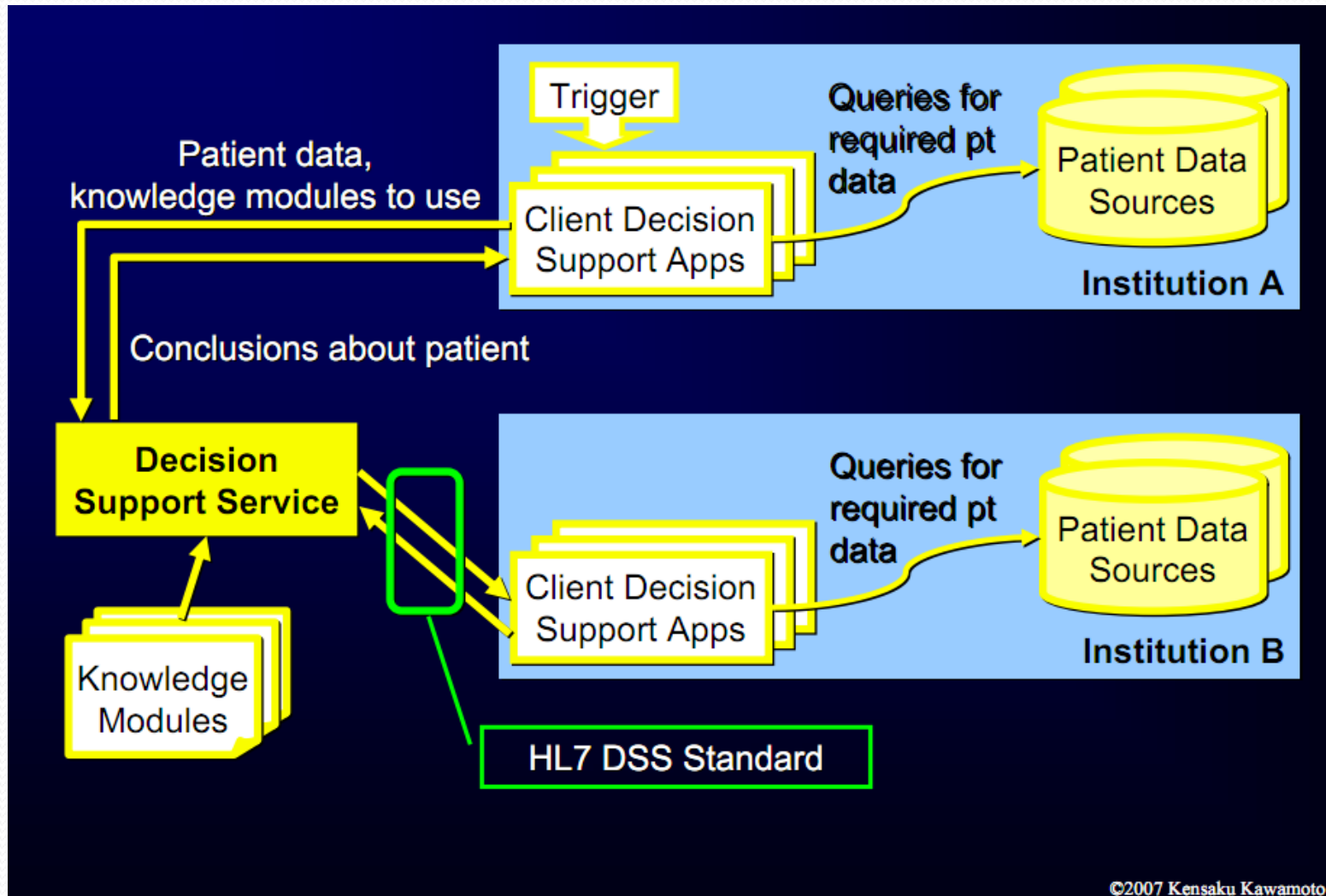
Care providers

(after Hermens, 2008)
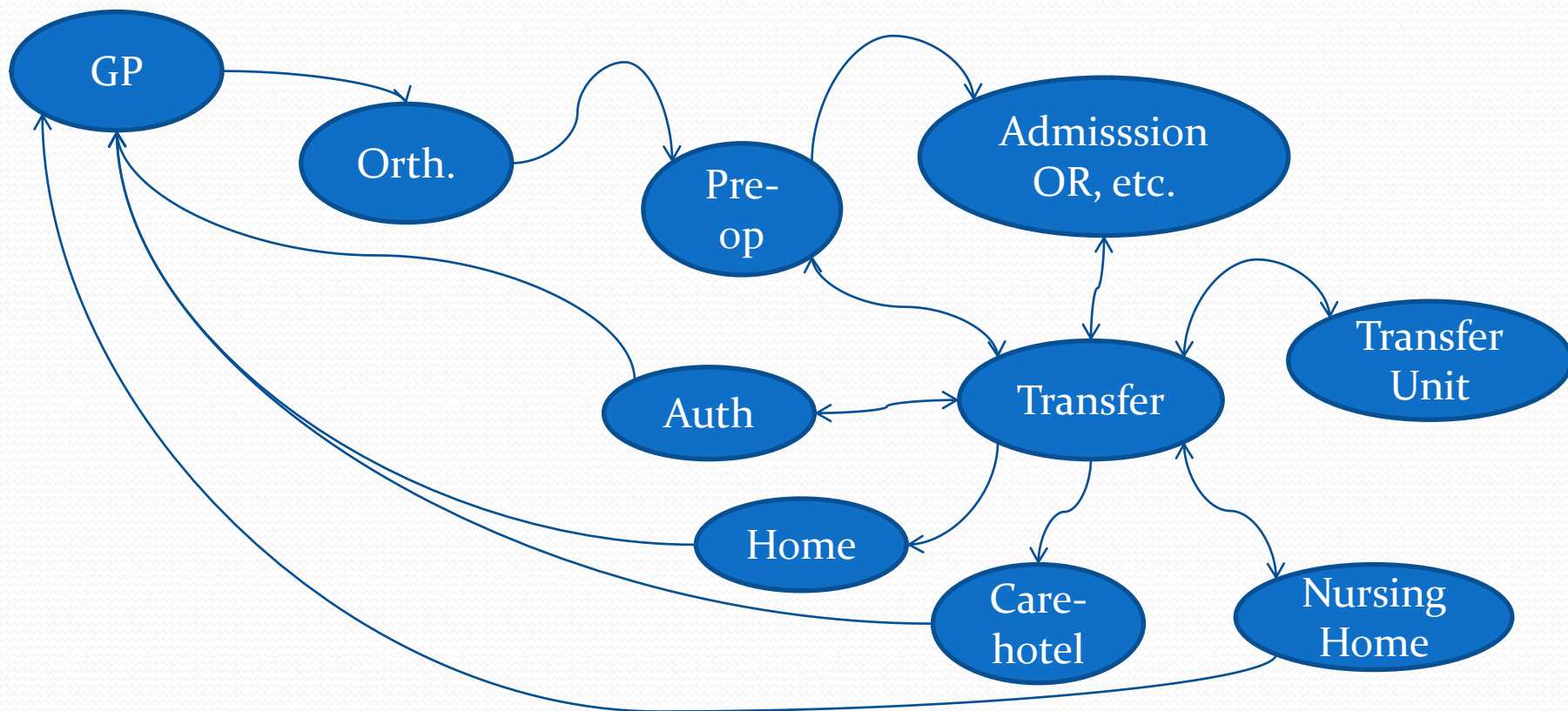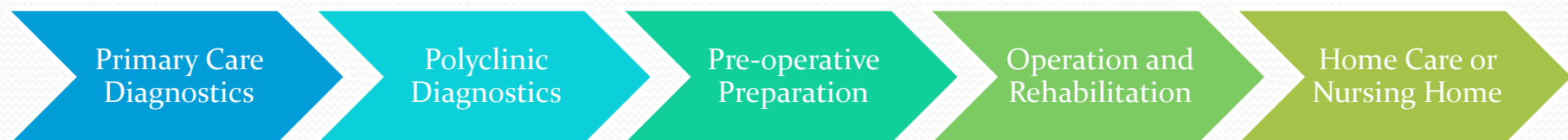
Focus on Guidelines and DSS

(Brandhorst et al, 2009)

Suggested Genomic DSS layout

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Care Pathway Coordination

Standards Development Organizations working together

www.JointInitiativeCouncil.org   home   contact us

Joint Initiative Council

cen Health Informatics TC 251   CDISC   GS1 Healthcare   HL7 INTERNATIONAL   ISO Health Informatics TC215

History of the Joint Initiative Council

- Charter with ISO, CEN, and HL7 signed August 2007
- Renewed with CDISC and IHTSDO September 2009
- GS1 joined November 2010

- Projects carried through
  - ISO 21090:2011 Harmonized data types for information interchange
  - Individual Case Safety Report (ICSR)
  - IDentification of Medicinal Products (IDMP)
  - Standards Knowledge Management Tool (SKMT)

Current and proposed JIC Projects

- Approved projects
  - BRIDG – Biomedical Research Information Domain
  - CTRR – Clinical Trial Registration and Results
  - EHR-S – Functional Model Release 2
  - Patient and Caregiver ID
    - Automatic Identification & Data Capturing

- Pending
  - Business Req's on Dose Information for Medicinal Projects
  - Detailed Clinical Models
  - Implementation Guide for Data Types

Subjects of Interest to take forward

- ## CEN – ContSYS
  - System of Concepts to support the Continuity of Care

- ## ISO/CEN – EN13606
  - Revision coming up, chances to harmonize

- ## CEN – ENV13607 / HL7 – Pharmacy
  - Cross-border ePrescription interoperability

- ## HL7 – Clinical Genomics Domain Analysis Model

My request to all HIT practitioners

My key take on good standards

- The standard can be found and is accessible
- The standard is being used in practice
  - It actually helps solve a real problem
- Education is available to learn to use the standard
- There is a forum for questions and maintenance of the standard
- The community using the standard participates in the maintenance, guidance and education processes

➢ **Reach out**: help (find) standards (be) relevant for you!

Kiitos – Thank you !

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