HIMSS Nordic eHealth Exchange

HIMSS15 Annual Conference & Exhibition

APRIL 12–16, 2015
Chicago, IL

Using IT as a Strategic Tool to Achieve better Health

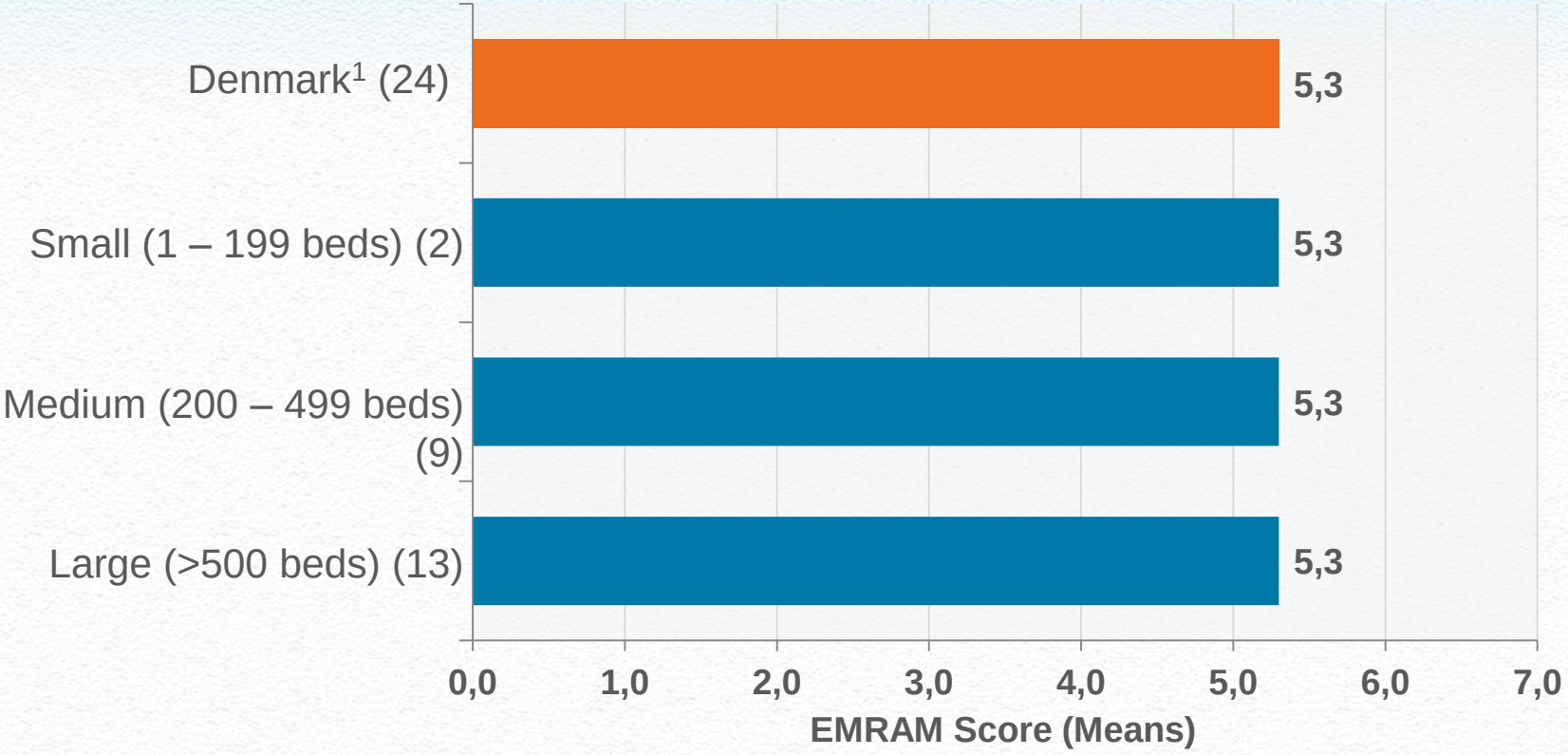
How to Gain National Equality in Health IT Solutions

Peder Jest, Exec. Director, CMO,

Odense University Hospital, DK

Equality in health IT implementation

EMR Adoption Model Scores, Means per Bed Size Segment



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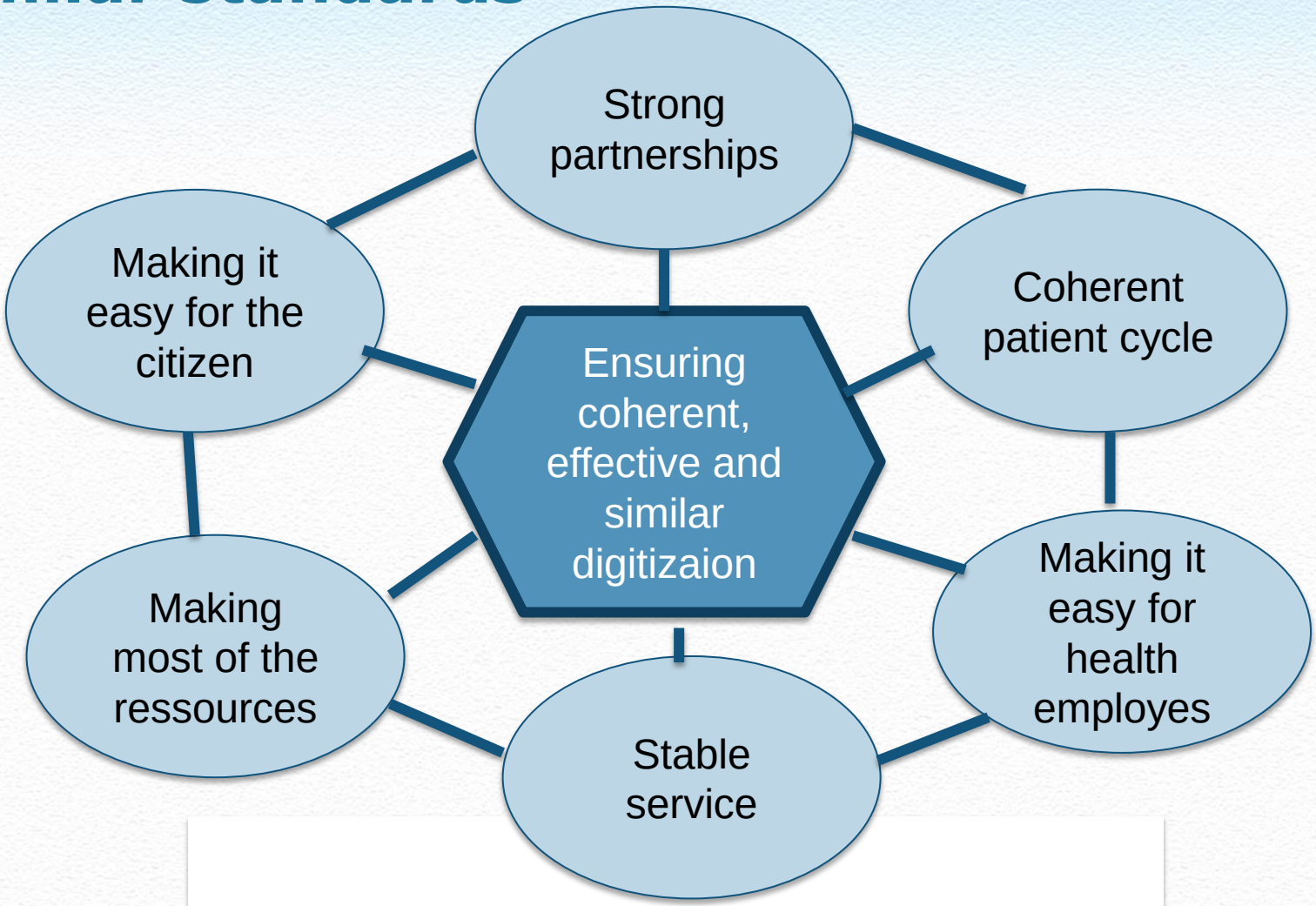
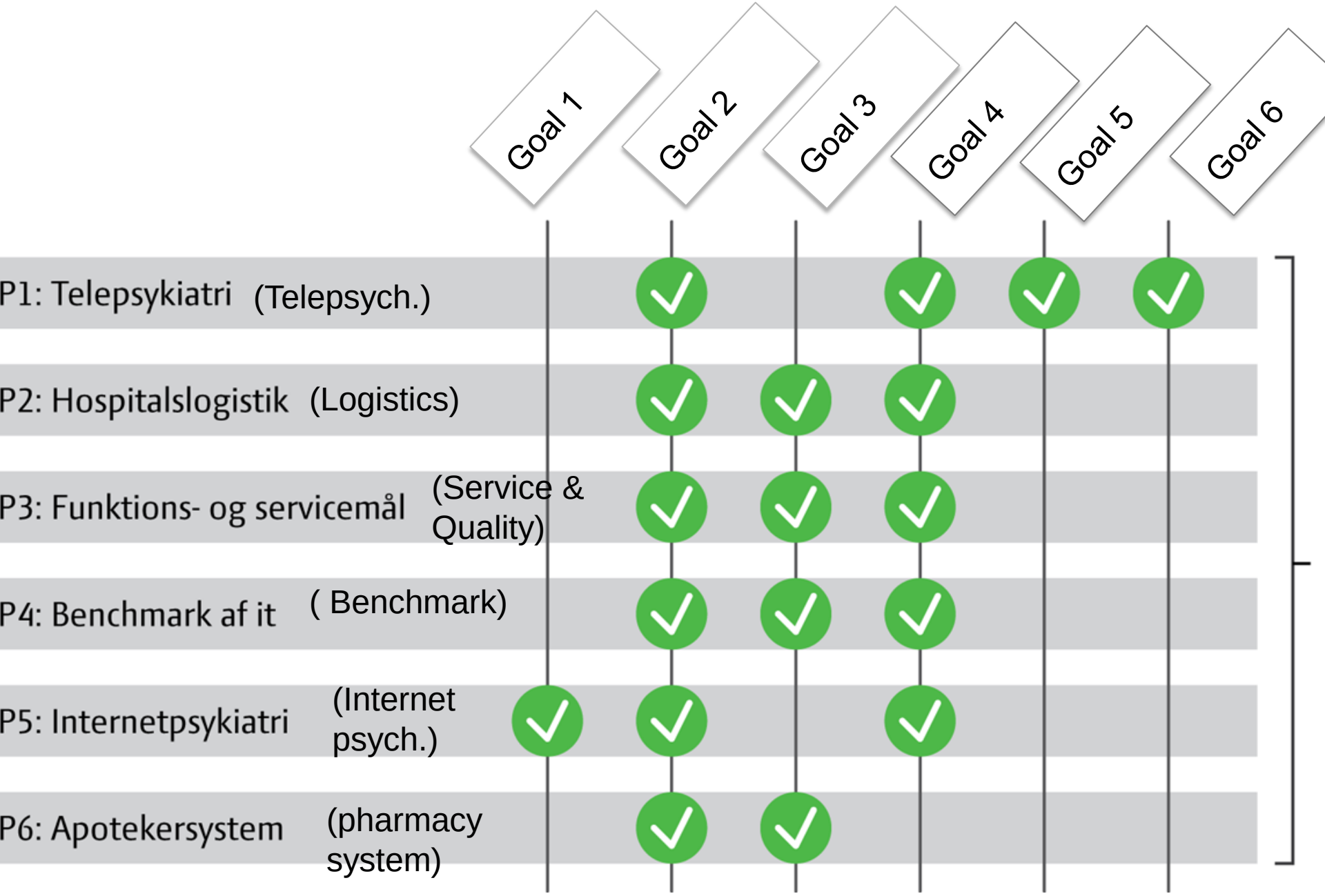
Source: HIMSS Europe Database, 07/25/2014

One strategy as means to insuring similar standards




Goal 1
Goal 2
Goal 3
Goal 4
Goal 5
Goal 6
P1: Telepsykiatri (Telepsych.)
P2: Hospitalslogistik (Logistics)
P3: Funktions- og servicemål (Service & Quality)
P4: Benchmark af it (Benchmark)
P5: Internetpsykiatri (Internet psych.)
P6: Apotekersystem (pharmacy system)

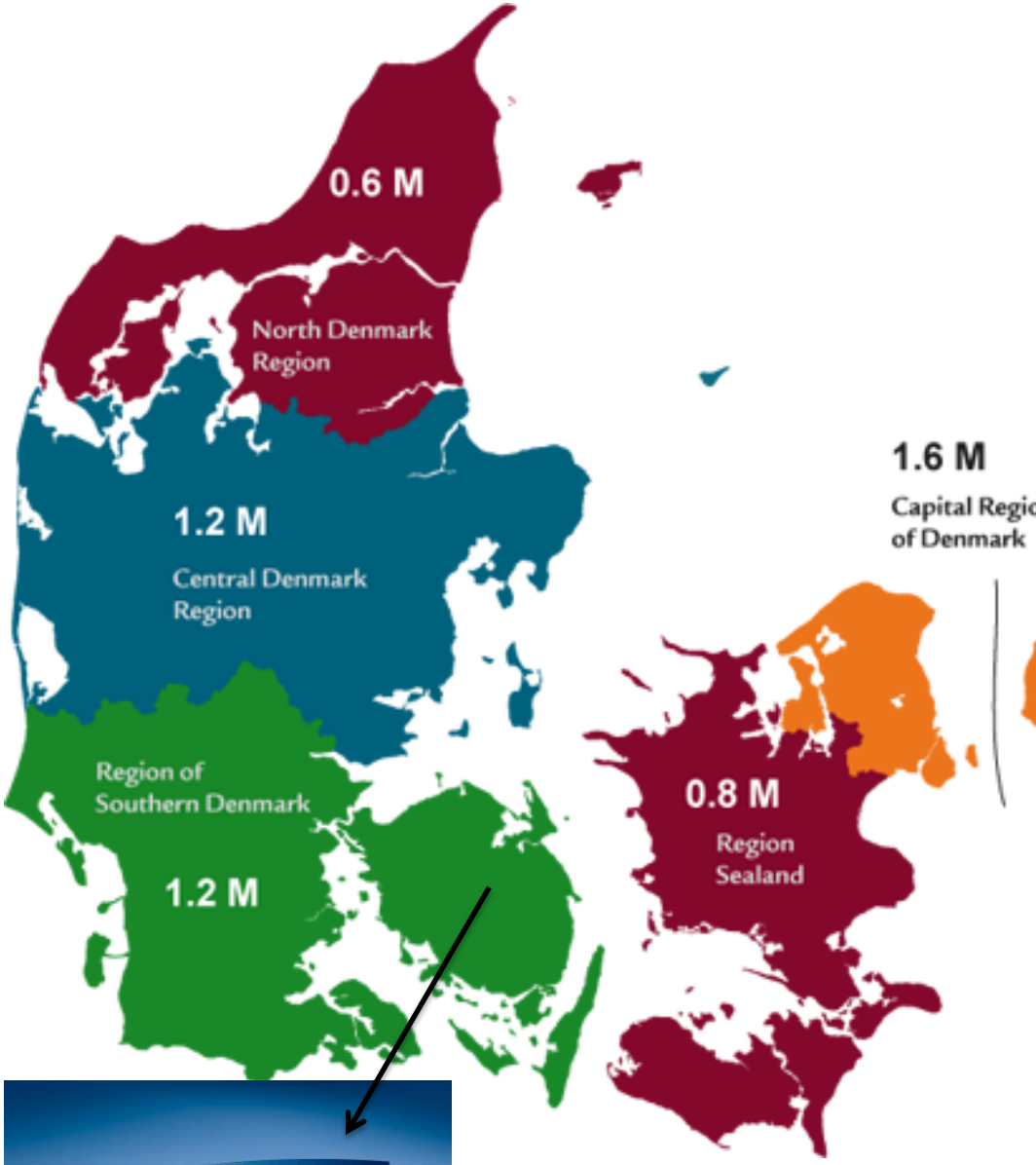
Standards for IT architecture are crucial

3 LEVELS OF GOVERNANCE

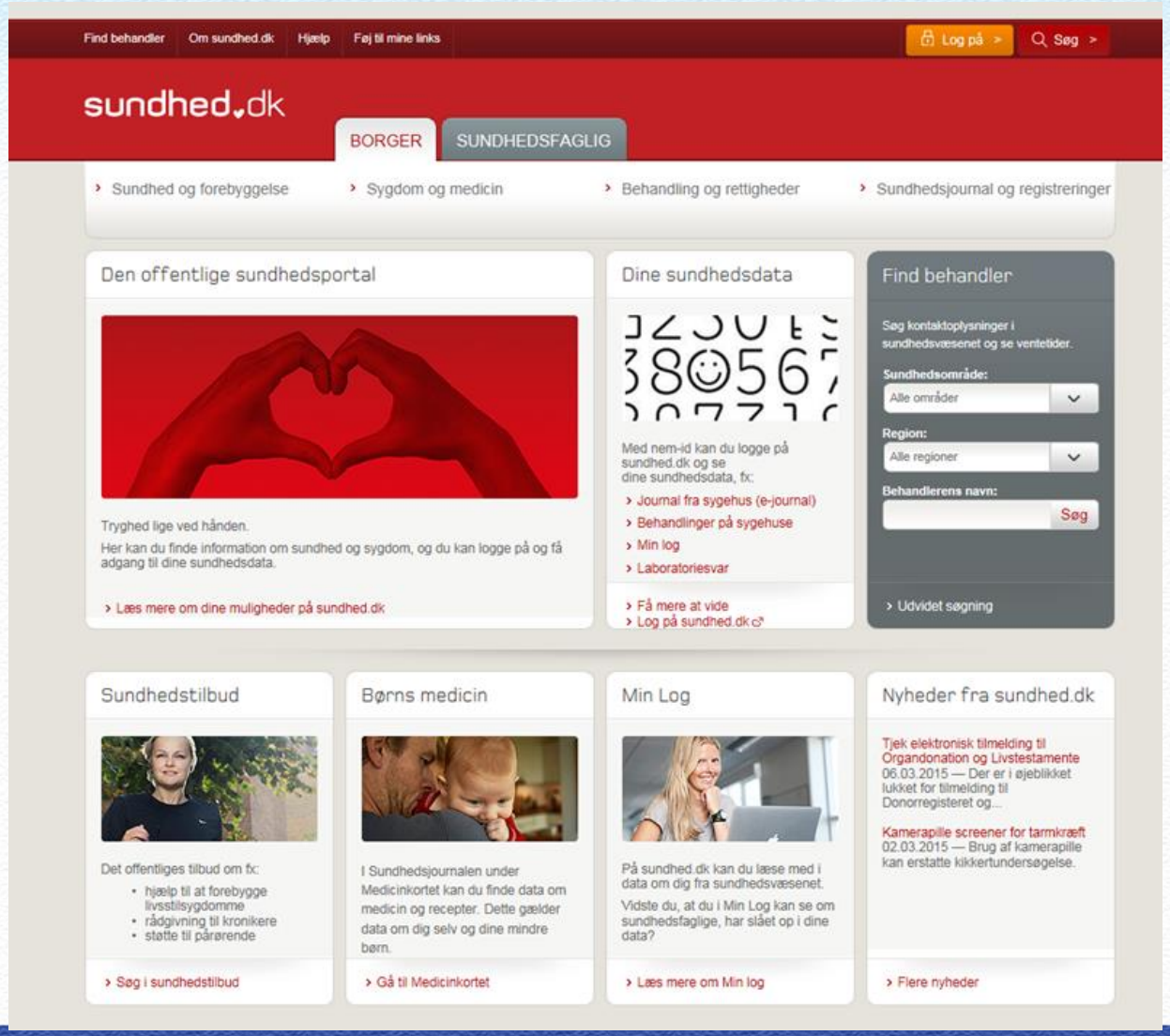
Cross-regional Portfolio and Project Governance

Regional Project Governance

Local Project Governance

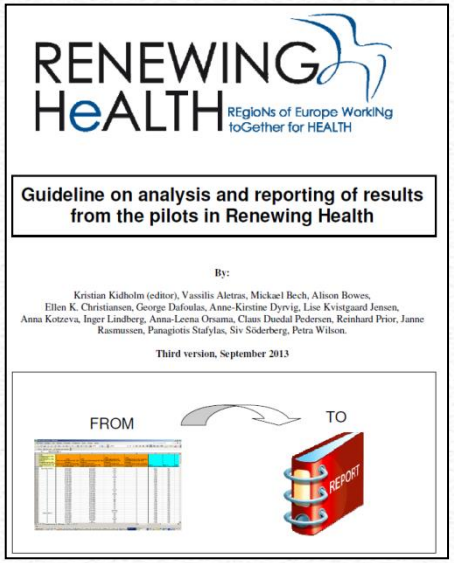


Health record available online for all



Advantages of MAST

- Described in Kidholm et al. (2012)
- Based on EUnetHTA and healthcare decision makers' need for information
- Focused on the need for maturation of telemedicine interventions
- Examples of relevant outcomes and outcomes measures:
  - Accessibility
  - Technical reliability
  - Patient acceptance
  - Business case
  - …
- Improving the scientific level of data collection and reporting:


RENEWING HeALTH REgioNs of Europe WorkING toGether for HEALTH

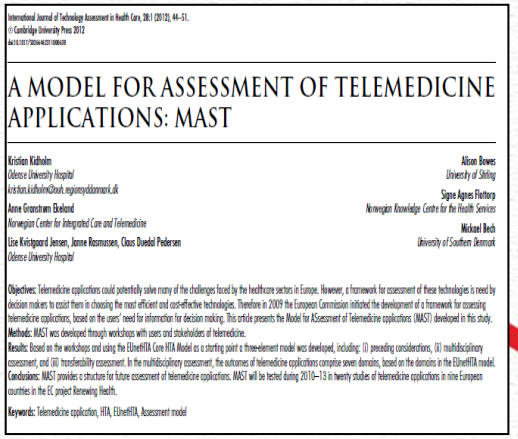
Guideline on analysis and reporting of results from the pilots in Renewing Health

By:

Kristian Kidholm (editor), Vassilis Aletras, Mickael Bech, Alison Bowes, Ellen K. Christiansen, George Dafoulas, Anne-Kirstine Dyrvig, Lise Kvistgaard Jensen, Anna Kotzeva, Inger Lindberg, Anna-Leena Orsama, Claus Duedal Pedersen, Reinhard Prior, Janne Rasmussen, Panagiotis Stafylas, Siv Söderberg, Petra Wilson.

Third version, September 2013

FROM TO REPORT


International Journal of Technology Assessment in Health Care, 28:1 (2012), 44–51.
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A MODEL FOR ASSESSMENT OF TELEMEDICINE APPLICATIONS: MAST

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University of Southern Denmark

Objectives: Telemedicine applications could potentially solve many of the challenges faced by the healthcare sectors in Europe. However, a framework for assessment of these technologies is need by decision makers to assist them in choosing the most efficient and cost-effective technologies. Therefore in 2009 the European Commission initiated the development of a framework for assessing telemedicine applications, based on the users' need for information for decision making. This article presents the Model for ASsessment of Telemedicine applications (MAST) developed in this study.
Methods: MAST was developed through workshops with users and stakeholders of telemedicine.
Results: Based on the workshops and using the EUnetHTA Core HTA Model as a starting point a three-element model was developed, including: (1) preceding considerations, (2) multidisciplinary assessment, and (3) transferability assessment. In the multidisciplinary assessment, the outcomes of telemedicine applications comprise seven domains, based on the domains in the EUnetHTA model.
Conclusions: MAST provides a structure for future assessment of telemedicine applications. MAST will be tested during 2010–13 in twenty studies of telemedicine applications in nine European countries in the EC project Renewing Health.

Keywords: Telemedicine application, HTA, EUnetHTA, Assessment model

MAST:
The most widely used framework in the EU

EU Project	**Design and patients**
Renewing Health	19 RCT studies, 7.000 patients
United4Health	3 observational studies, 20.000 patients
SmartCare	1 observational study, 9.000 patients
InCASA	5 observational studies
Integrated Home care	1 observational study
Single projects	
Hospital@home: Telemedicine for geriatric patients	1 observational study, Denmark
Rehabilitation by videoconference	1 observational study, Denmark
Intelligent bed In Homecare	1 observational study, China
Patient@home	20 studies, welfare and telemedicine, Denmark
NerveCentre, Nottingham University Hospitals NHS Trust	1 observational study, England
Pulsoximeter for COPD patients in home care	1 observational study, Sjælland municipalities
CommoDITY12 (Telehealth for diabetes pat.)	1 observational study, Portavita, Amsterdam
Remote real-time video-EEG	1 observational study, La Rioja, Spain
Validation of MAST	Sante Service HAD, Paris
Mini-MAST checklist	Danish Health and Medicines Authority

On-going work on MAST

- Publication of results from studies of telemedicine applications:
  - Sorknaes et al. (2013): Telemedicine for COPD patients
  - Thorbjørnsen et al. (2014): Telemedicine for diabetes patients
  - Holmen et al. (2014): Telemedicine for diabetes patients
  - Minet et al. (2015): Telerehabilitation
  - Cano et al. (2015): Integrated care
- MAST courses:
  - Berlin 2012
  - Treviso 2013
  - Paris 2014
  - Bilbao 2014
  - Odense 2014
  - …
- Implementation of the mini-MAST checklist in Danish Regions
- Extension of MAST's scope to cover
  - Integrated care (underway)
  - Mental Health (underway)

Results from 6 MAST assessments of new services

	Design	D2: Safety	D3: Clinical	D4: Patient Perception	D5: Economics	D6: Organisation
Baby Briefcase	Pilot					
COPD Briefcase	RCT					
Telemedicine for Diabetic Foot Ulcer ptts	RCT					
Tele-rehabilitation	Cohort					
Tele-interpretation	Pilot					
Tele-discharge	Pilot					

How to Organize "The Wild West of Innovation"

Players in the Region Southern Denmark – Telemedicine OUH Uptake

Private Players

- Smaller companies/SMEs
- Big Companies
- International Companies
- Sydenergi
- Trefor
- Local energy companies

Public Authorities

- Region SD
- Regional Development department
- Regional Health Direction
- SDSI
- 9 Municipalities
- CoLab
- OUH
- Odense Municipality
- CIMT

Other Players

- Welfare Tech
- Patient@home
- MedCom
- Science Park
- Institute of Technology
- Patient organizations

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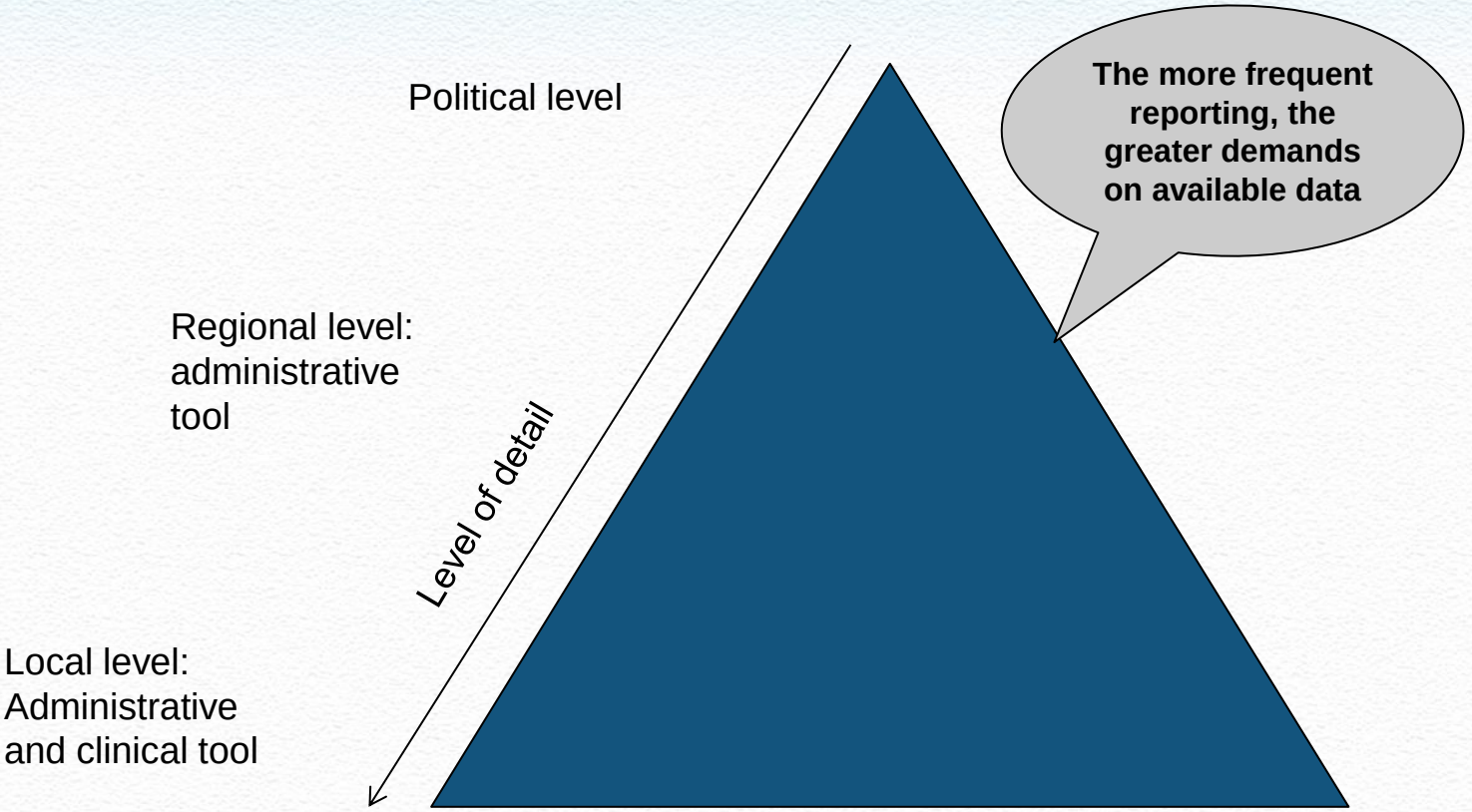
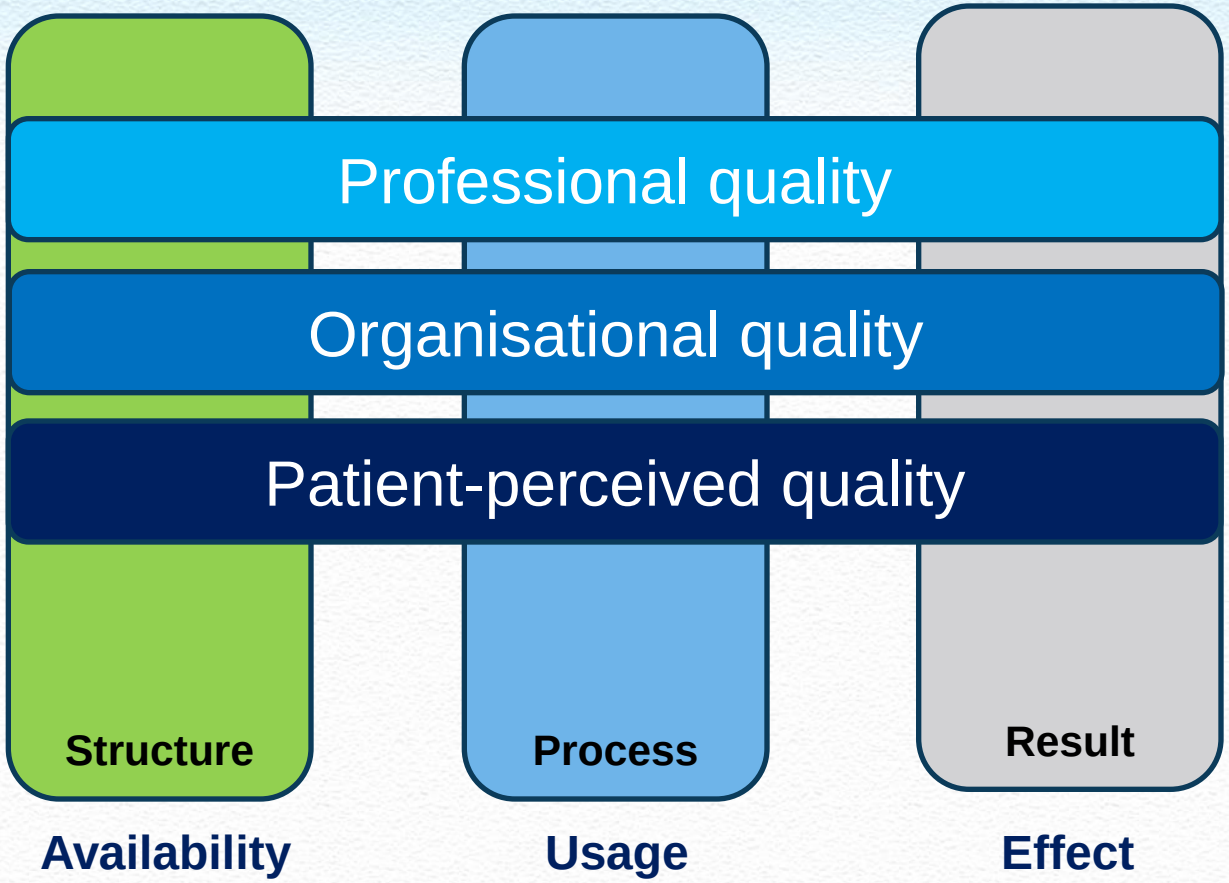
Developing indicators: Levels of demand



Developing indicators – a framework



What about me!?
2 12

Purpose of Indicator Project

- Driving clinical value from political aims
- Ensuring certainty of quality in health IT solutions
- Creating equal opportunity for all social groups across Denmark!
- Develope indicators for measurement of new health IT solutions, ex. Mobile health IT

EMRAM IS A POSSIBLE TOOL

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CIMT

CENTER FOR INNOVATIV MEDICINSK TEKNOLOGI
CENTRE FOR INNOVATIVE MEDICAL TECHNOLOGY

OUH
Odense
University Hospital
Svendborg Sygehus

OUH

Strives for quality in all respects

Region of
Southern Denmark

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Thank you!

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