

Policies and Strategies on eHealth in Denmark

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Introduction to Danish health care: foundational principles and goals

- ❑ Equal and free access to healthcare
- ❑ High quality of care
- ❑ Freedom of choice
- ❑ Expenditure 2008:
 - Public 125 mia. Dkr.
 - private 22 mia. Dkr.



Danish Health Care

Regional health care

- Somatic and psychiatric hospital services
- Public Healthcare Reimbursement Scheme
 - General practitioners (3400)
 - Practising Specialists (1200)
 - Physiotherapist, chiropractors, dentists

Municipality health care

- District nursing
- Rehabilitation
- Health promotion and prevention
- Children's health



IT in Danish health care today

Denmark has come far ...

- **National infrastructure of communication between primary and secondary healthcare**
 - Dissemination of the use of IT in primary care – 98% of GPs, 85% of specialists, all pharmacies, 100% of municipalities and all publicly owned hospitals exchanges point to point **structured patient specific messages** in a closed network
 - Main areas of communications are: referrals, discharge letters, prescriptions, laboratory request and results, notifications
 - 40+ different IT-systems involved

- **Sundhed.dk - The national Danish ehealth portal**

... but can improve ...



DIGITAL HEALTH

CONNECTED DIGITAL HEALTH IN DENMARK

Central components in the information backbone

- Unique identifiers at national level:
 - Persons -CPR
 - Companies -CVR
 - Buildings -BBR
- National registres maintained by central authorities
- In operation for more than 30 years
- Cancerregister
 - Established 1943
 - Modernasized 1978



National initiatives

- Danish Health Data Network
- EDI standards
- Common standards, concepts and classification
- Communication hospitals and home care
- National Personal Medicine Profile
- Prescription Server



Danish Health Data Network

Danish Health Data Network

- 99% of GP's
- 85% of specialists
- all pharmacies
- all municipalities
- all publicly owned hospitals
- Medcom
- Sundhed.dk - The national Danish e-health portal

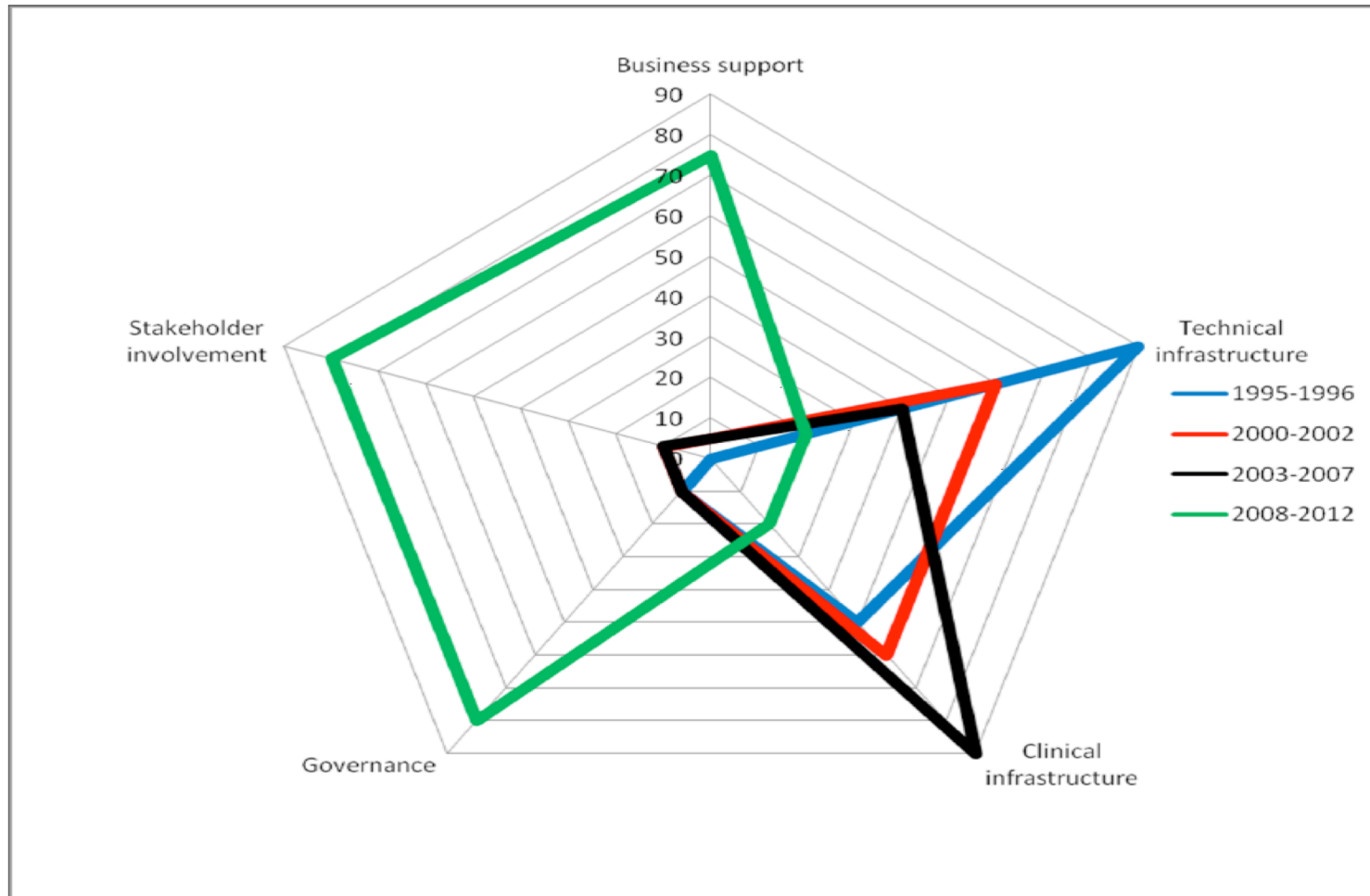


Danish IT strategies for the Health Sector

- 1995: IT political action planHealth Care Network
- 1996: Action plan for EHRDecentralized initiatives, central funding
- 1999: National strategy for IT 2000-2002
 - Electronic Health Record
 - Communication of patient related data
 - Technical and organizational challenges
- 2003: National IT strategy for the Health Sector 2003-2007
 - Electronic Health Record
 - Clinical infrastructures
 - Standardization and interoperability
- 2008: National Strategy for the digitalization of Health Care
 - Governance
 - Stakeholder involvement
- Business orientation



Strategic focus profiles



DIGITAL HEALTH

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Principles

- ❑ Enhanced cooperation through management, administration and coordination
- ❑ Stepwise development of digital communication
- ❑ Stepwise convergence of local solutions
- ❑ Clear projects and development based on demands
- ❑ IT for the entire health care system
- ❑ Utilization of the international dimension
- ❑ Continuous development and adaptation



Strategy Three Main Elements

- ❑ An instrument for the employee to create quality and productivity
- ❑ Better service to and involvement of citizens and patients
- ❑ Cooperation and connection



1: An instrument for the employee to create quality and productivity

- ❑ Use of data and technology
 - User friendliness, minimization of manual input, reuse of data, access and sharing across time and place

- ❑ Development of quality and research
 - Monitoring by use of quality indicators, support of the Danish quality model, support of research

- ❑ Management and administrative information

- ❑ Efficient implementation and secure IT



2: Better service to and involvement of citizens and patients

- ❑ Easy accessible, connected and efficient channels of communication
- ❑ Involvement – forwarding and maintenance of own health data
- ❑ Access to services for everyone
- ❑ Secure and safe handling of data



3: Cooperation and connection

- In the health care system
 - Binding cooperation at all levels
 - Binding decisions for all participants
 - Division of labour between state, regions and municipalities
 - Cooperation across sectors on standards
 - Suppliers
 - Private suppliers of health services



Plans of action

 *An instrument for the employee to create quality and productivity*

- Programme 1: National Patient index
- Programme 2: Joint Medical card

 *Better service to and involvement of citizens and patients*

- Obtained indirectly through Patient index and Medical card
- Telemedicine

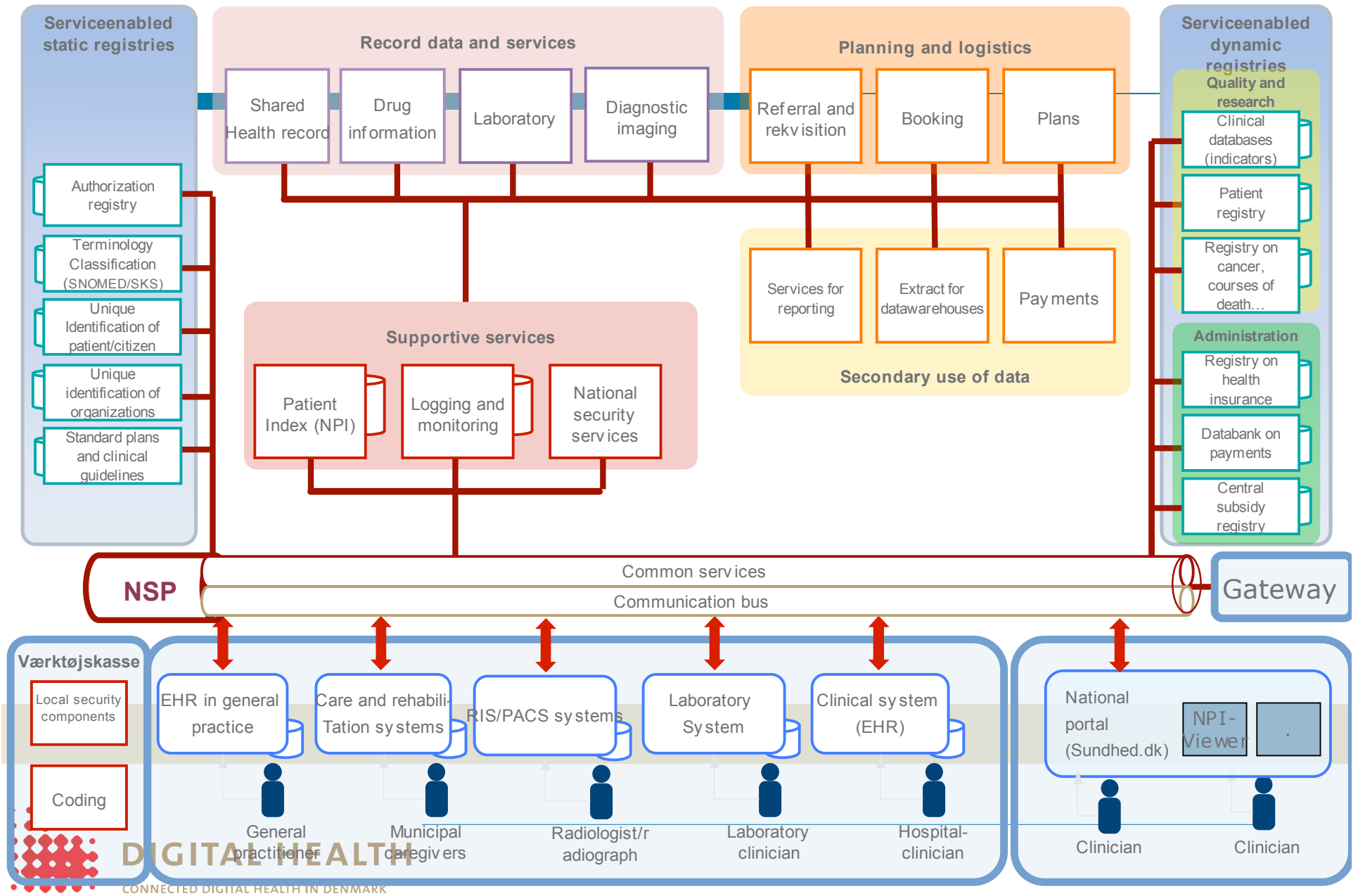
 *Joint infrastructure*

- Programme 3: IT Architecture and security
- Programme 4: Standardization

 *Monitoring of the digitalization at each participant*



Illustration of the national eHealth infrastructure



DIGITAL HEALTH

CONNECTED DIGITAL HEALTH IN DENMARK

Agreement on e-health 2010 (1)

- ❑ Overall development has to be coordinated and prioritised on national level
- ❑ Clear division of labour, connexion and progress
- ❑ New advisory board to the ministry
- ❑ Digital Health closing down



Tasks on state level

- Consolidate national health registers
- Increase services for participants in e-health
- Common and effective exchange on information about patients



Task on regional level

- Consolidating e-health on hospitals
- Establish an common it regional unity (RSI)
- convergence to common e-health solutions
- common purchase and tender
- coordinate regional data through the national infrastructure and standards



Milestones (1)

- Total consolidated HER and connected it-work of place including common log-in before end of 2013
- IT support of panning of productions in hospitals for example acute functions before end of 2011



Milestones (2)

- National Patients index
 - Common Medical information end of 2011
 - Information on patients (e-healthrecords in hospitals end of 2010
 - Information on vaccinations medium 2011
 - Information on imaging on a common scale 2012
 - Access to information in the national patient register



Milestones (3)

- ❑ All communication on patients in a digital way 2012
- ❑ Patients interpretation on video conference in all hospitals 2012
- ❑ Common model to send and receive data from national registers
- ❑ Review juridical barriers to effective chairing of relevant data

