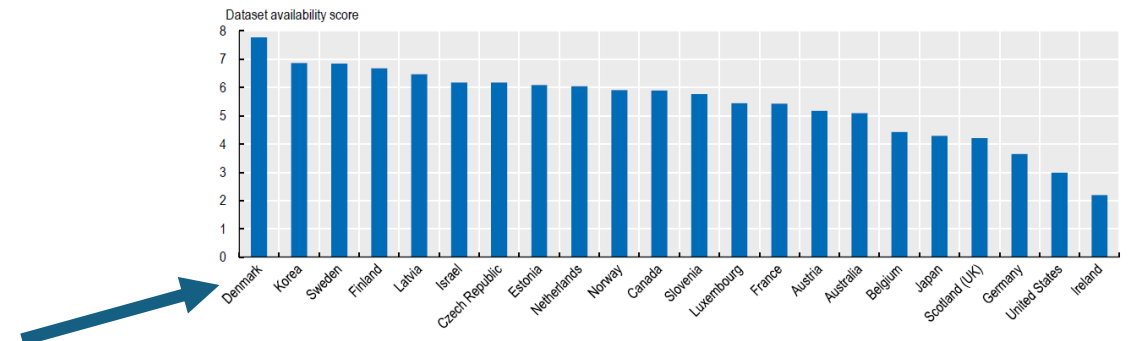


E-health in Denmark

Denmark: World leading in e-government



Figure 2.3. Ability to access and link datasets in healthcare



“Denmark reported having a portal for patients to access their comprehensive health data that was available to their entire population.” (p. 41)

Status



The Danish Digital Journey

For more than 20 years, the Danish national government, municipalities, and regions have worked closely together to build a strong digital service infrastructure that serves as the public sector's foundation for delivering public services to residents and businesses in Denmark.

[Read about the Danish Digital Journey](#)

Sundhed.dk [... 'Gesundheit.dk'] and MyHealth (app.) are based on the digitized patient records

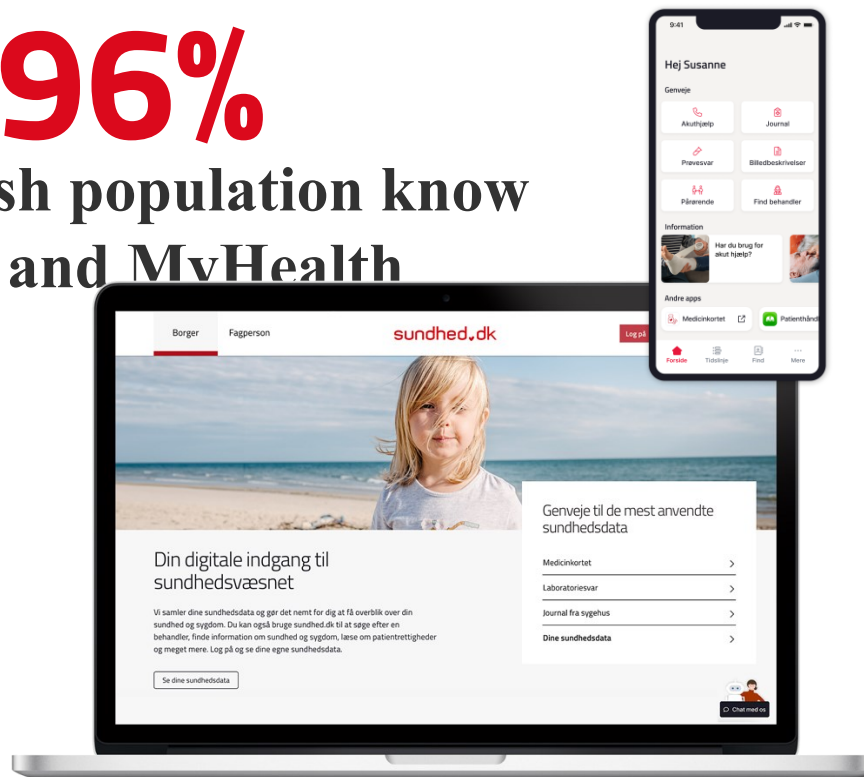


Sundhed.dk is the official portal for the public Danish Healthcare Services and enables citizens and healthcare professionals to find information and communicate



96%

Of the Danish population know sundhed.dk and MyHealth

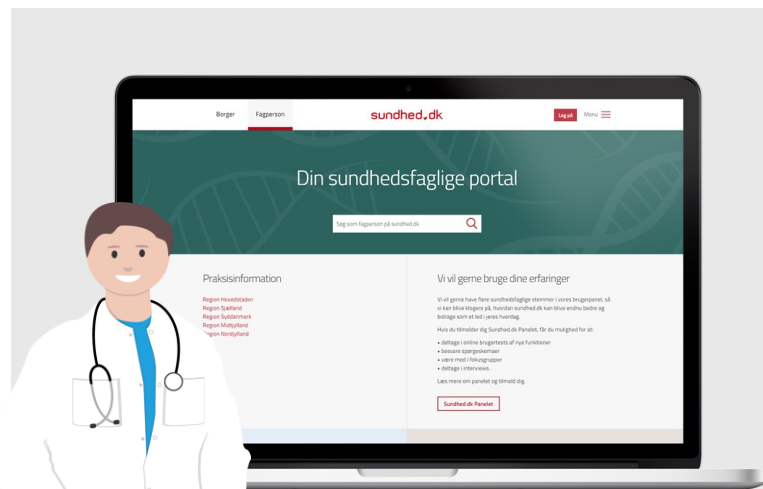


44 mio.

Visits across sundhed.dk and MyHealth Jan-September 2024



Health professionals' use of sunded.dk 2023



“To gain the full perspective and give patients the best treatment (sometimes life saving treatment) it can be crucial to see data from other systems, that could be local, regional and national systems”

3 mio.

‘look up’s’ all together

1.7 mio.

from Hospitals

1.3 mio.

from General practitioners



User groups -
sundhed.dk and the
Danish Health Record

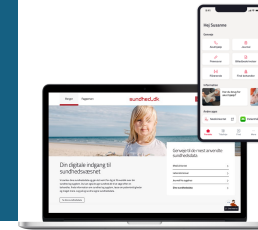
**General
practitioners &
Specialist**

Municipalities

Hospitals

Citizens

Sundhed.dk & MyHealth



Data sources -
sundhed and the
Danish Health Record

**Electronic
Patient
Record**

National portal with lab responses

Biochemistr

**y
Immunolog**

Pathology

Microbiolo

**Medication
Record**

PRO

**X-ray
Descriptions**

**Appoint-
ments**

v

gv

App. for general practice

Developed in cooperation with
The Association of GPs and
the Ministry of Health



2.5 millions
active users



Hent i
App Store



NU PA
Google Play



Video consultation

Name and address of GP

My Doctor

Messages

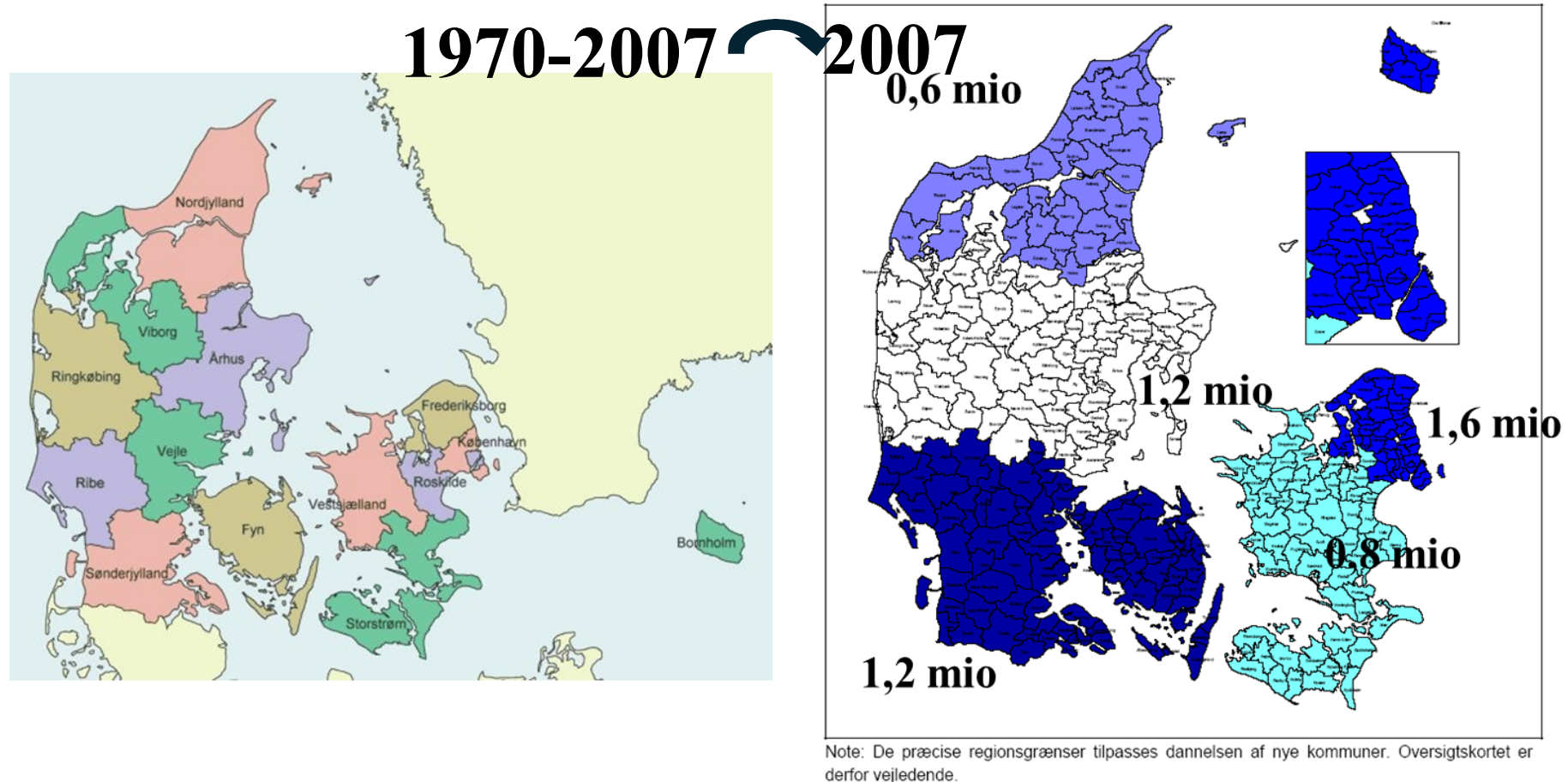
Appointments

Medical Records, incl. medications/prescriptions

Hospital investment and planning

The 2007-structural reform as basis for historical hospital investments

From 14 counties to 5 regions
required a reconsideration of hospital structure



Planning guidelines/directives from the National Health Authority (after the 2007-reform, the National Health Authority had a stronger position)

Sundhedsstyrelsen



STYRKET AKUTBEREDSKAB
- planlægningsgrundlag for
det regionale sundhedsvæsen

2007

A new model for organization
of hospitals with
acute admission (24/7)

Introduced a new model for organization of acute/emergency admission (24/7)

A common hospital acute/emergency admission facility across specialities

Beds reallocated from the specialized wards

Ideally acutely admitted patients are always seen by specialists

Patients stay a max of 48 hours in the acute admission ward before being discharged or admitted to a specialized ward.

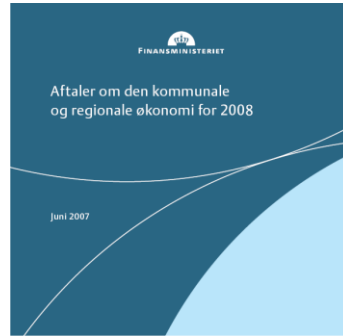
App. 70% are discharged within 24 hours

+40 billion DDK (+ 5 billion CHF) for new/renovated hospitals

**Hospital plans developed in all regions
in 2007/2008**

&

The allocation of investment funds



June 2007

The annual budget agreement between central government and the five regions

Establish a 5 person expert panel to advise government on hospital investment proposals from the regions

- 3 Danes
- 2 Scandinavians



August 2007

**Government Fund' - 25 billion Dkr. over 10 years for hospital investments + 15 billion from the regions:
A total of +40 billions DKK (5 billions CHF)**

First report from the expert panel

REGIONERNES INVESTERINGS-
OG SYGEHUSPLANER

- SCREENING OG VURDERING



Afgivet af regeringens ekspertpanel
NOVEMBER 2008

**Ultimo november 2008;
Distributed about 25 billion
DKK (3.1 billions CHF)**

Second report from the expert panel

REGIONERNES INVESTERINGS-
OG SYGEHUSPLANER

- SCREENING OG VURDERING II

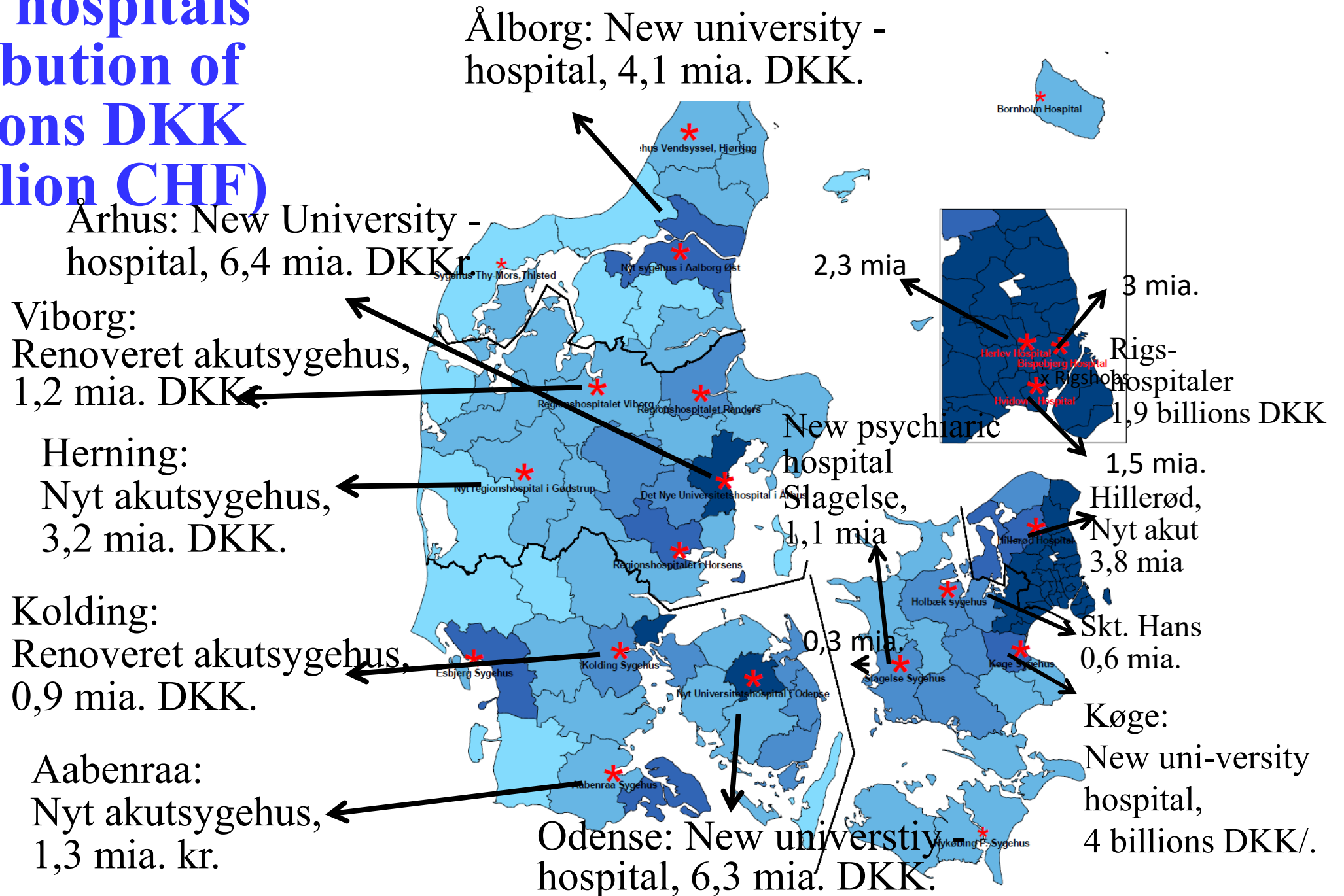


Afgivet af regeringens ekspertpanel
NOVEMBER 2010

**Distributed about
2 billions CHF**

All recommendations were followed

21 acute hospitals & Distribution of +40 billions DKK (=5,5 billion CHF)



Pictures of some of the new hospitals



Herlev



Nordsjælland



Køge



Nyt OUH
University
Hospital



Aalborg University hosp



Aarhus Univer.-hosp

Regionshospitalet i Gødstrup (Western DK)

- Green field hospital, opened March 2022
- Hospital in neighboring city closed



127,000 sqm somatic 13,000 sqm psychiatri

App. 640 beds, app. 4,000 employees

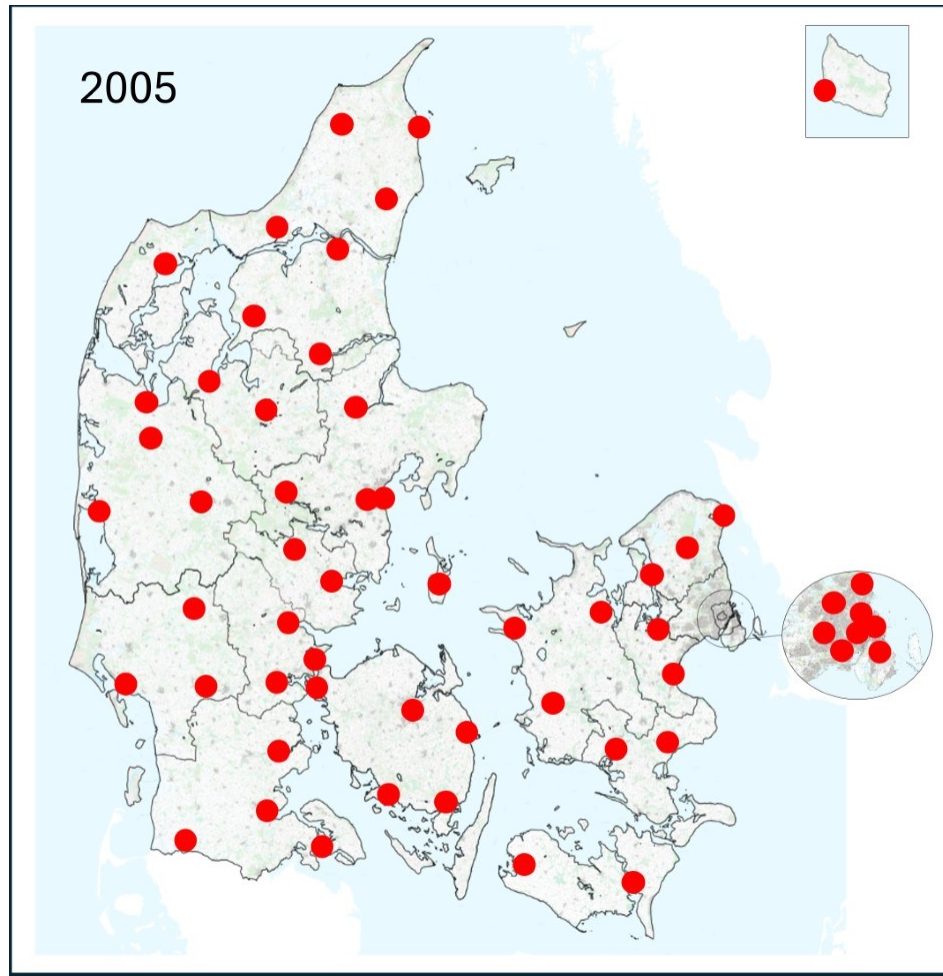
Price: app. 0,5 billion CHF. Stayed within budget, but reduced the project considerably to reach this target.

Serves a population of 300,000

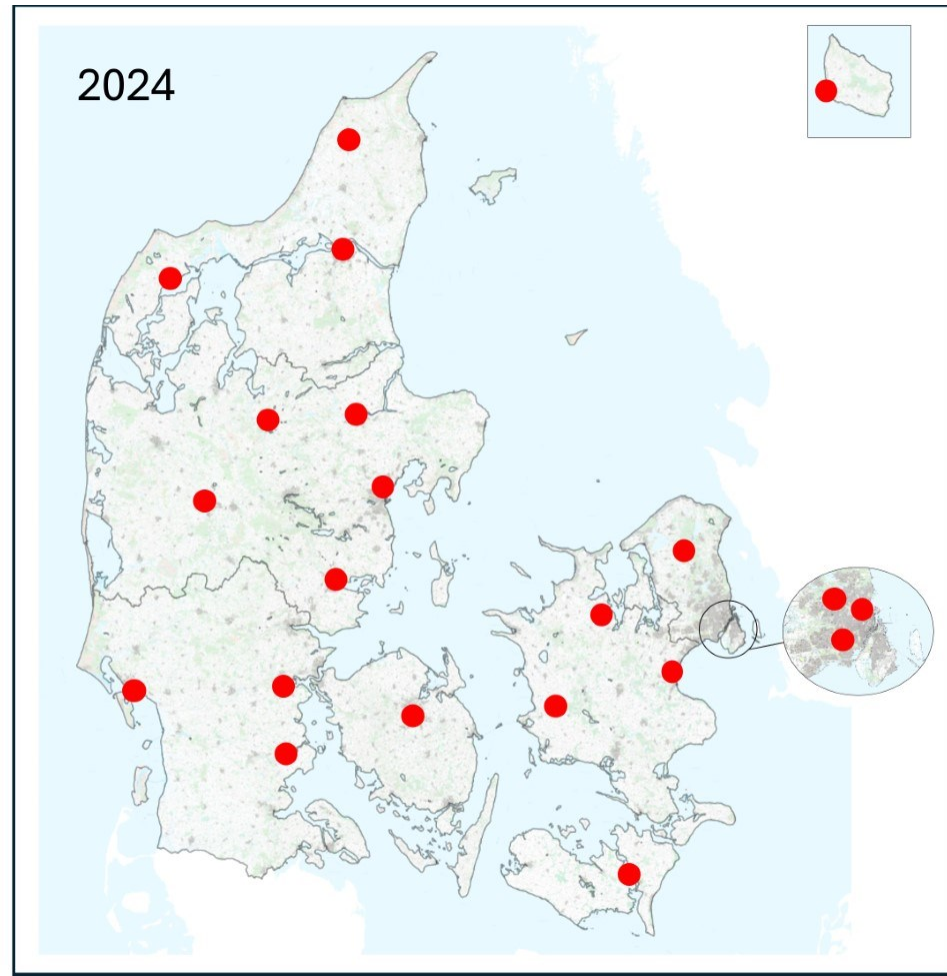
The result

Dramatic decrease in hospitals with emergency admittance 24/7

Hospitals with acute admission 2005

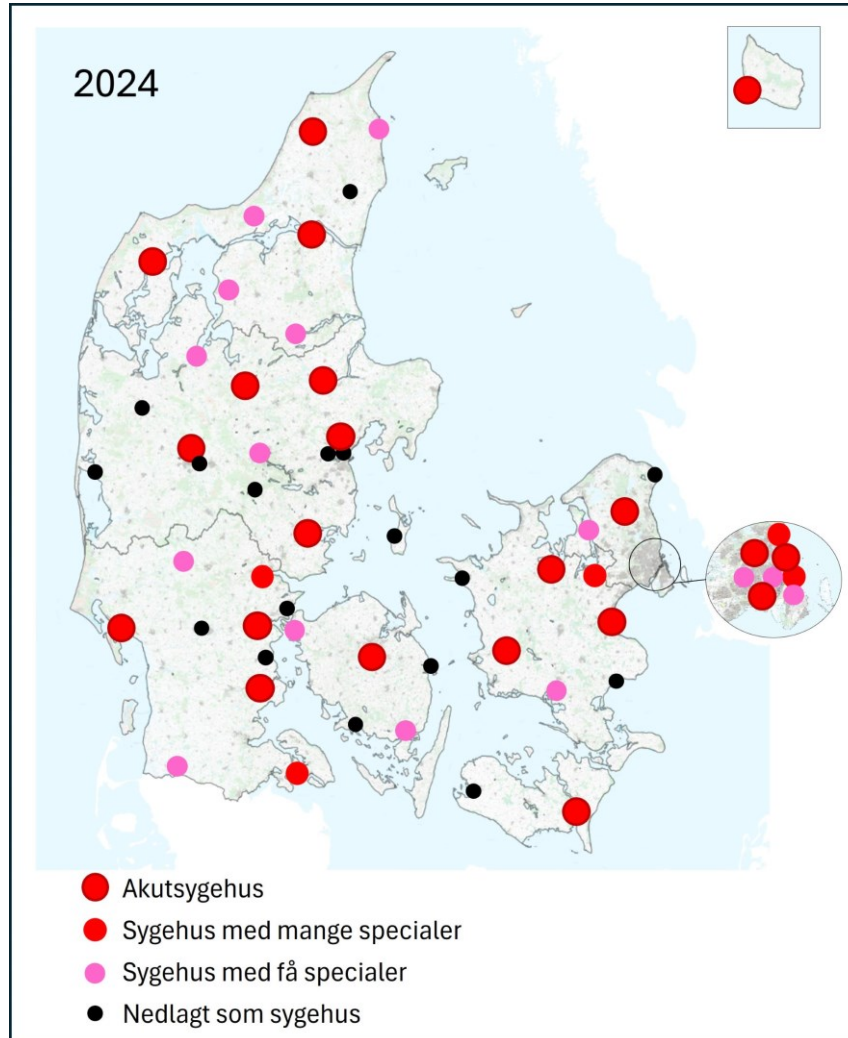


Hospitals with acute admission 2024



What happened to the non-acute admissson hospitals

Closed: black dot; **changed:** red dot – still significant hospital and small pink dot (marginal)



Closure of small hospitals

Nedlagte og omlagte sygehuse:

Region Nordjylland

- Brovst Sygehus (omlagt til sundhedshus)
- Dronninglund (omlagt til praktiserende lægehus)
- Nykøbing Mors (omlagt til sundhedshus)
- Terndrup

Region Midtjylland:

- Regionshospitalet Kjellerup
- Regionshospitalet Grenaa (omlagt til sundhedshus)
- Regionshospitalet Odder
- Regionshospitalet Tarm (omlagt til sundhedshus)
- Regionshospitalet Brædstrup (omlagt til livsstilscenter)
- Regionshospitalet Ringkøbing (omlagt til sundhedshus)
- Regionshospitalet Skanderborg (omlagt til sundhedscenter)

Region Syddanmark

- Brørup i 2009 (omlagt til sundhedscenter)
- Varde i 2009
- Faaborg i 2012
- Haderslev i 2014
- Ringe i 2016
- Fredericia i 2016

Region Hovedstaden

- Esbønderup (lukket 2011)
- Hørsholm (lukket 2011)
- Helsingør (omlagt til sundhedshus)

Region Sjælland

- Korsør Sygehus
- Faxe Sygehus
- Kalundborg Sygehus
- Nakskov Sygehus

- 17 were closed

In practice more hospitals were closed (they were already in ‘the death throes’)

Preshospital services

1. Alongside the centralization of hospitals prehospital services were expanded considerably
2. Ambulance services are increasingly operated by the regions – but were until around 2010 operated by couple of private companies



9 Bringing the hospital to the patient

10 Helicopters ensure equal access to healthcare



14 Electronic patient records in Danish ambulances



15 Heart patients are diagnosed in the ambulance

