

# **Welcome to SALAR!**

## **2017-08-31**



# Agenda

<b>09:00–09:30</b>	Coffee, welcome and introduction of agenda	Karina Tellinger McNeil, SALAR Helena Palm, SALAR
<b>09:30–10:20</b>	<ul style="list-style-type: none"><li>• Swedish healthcare and e-health (structure and organization)</li><li>• SALAR and government action plan and Vision for e-health 2025</li><li>• Legislation</li></ul>	Patrik Sundström, SALAR
<b>10:20–10:30</b>	<i>Short break</i>	
<b>10:30–11:20</b>	<ul style="list-style-type: none"><li>• Services for patients and citizens</li><li>• What can we offer our citizens in the coming years?</li></ul>	Sofie Zetterström and Maria Ekendahl, Inera
<b>11:20–12:10</b>	<ul style="list-style-type: none"><li>• EHR systems in Sweden today and plans for tomorrow</li><li>• National e-health services (National patient overview, Referrals, Sick-notes)</li><li>• National infrastructure for e-health</li></ul>	Mikael Johansson, Inera
<b>12:10–13:00</b>	<i>Lunch</i>	
<b>13:00–13:30</b>	Data driven management in Swedish healthcare (Vården i siffror and Öppna jämförelser)	Fredrik Westander and Adam Sandebring, SALAR
<b>13:30–14:00</b>	Personal health account (HälsaFörMig)	Carl Jarnling, Swedish eHealth Agency
<b>14:00–15:00</b>	Towards new digital solutions (EHRs etc.)	Annabeth Bergqvist, Stockholm: Ralph Harlid, Blekinge och Marie Häggström, FVIS
<b>15:00–15:20</b>	<i>Coffee break</i>	
<b>15:20–16:30</b>	<ul style="list-style-type: none"><li>• Health, social services and regional government reform in Finland</li><li>• The UNA project</li><li>• HUS Apotti project</li></ul>	Vesa Lipponen, Ministry of Finance; Erkki Kujansuu, Tampere University Hospital; Jyrki Soikkeli, HUS Apotti project
<b>16:30–17:30</b>	Moderated discussion/workshop	Karina Tellinger McNeil, SALAR Helena Palm, SALAR

In this file

# What do we know about each other?

**How familiar are you with Swedish eHealth (= what we do and what we plan)?**

1 = Novis (nothing at all)

...

5 = Expert (know everything)

**How familiar are we with Finnish eHealth (= what they do and what they plan)?**

1 = Novis (nothing at all)

...

5 = Expert (know everything)

# **Services for patients and citizens**

**Sofie Zetterström, deputy CEO**

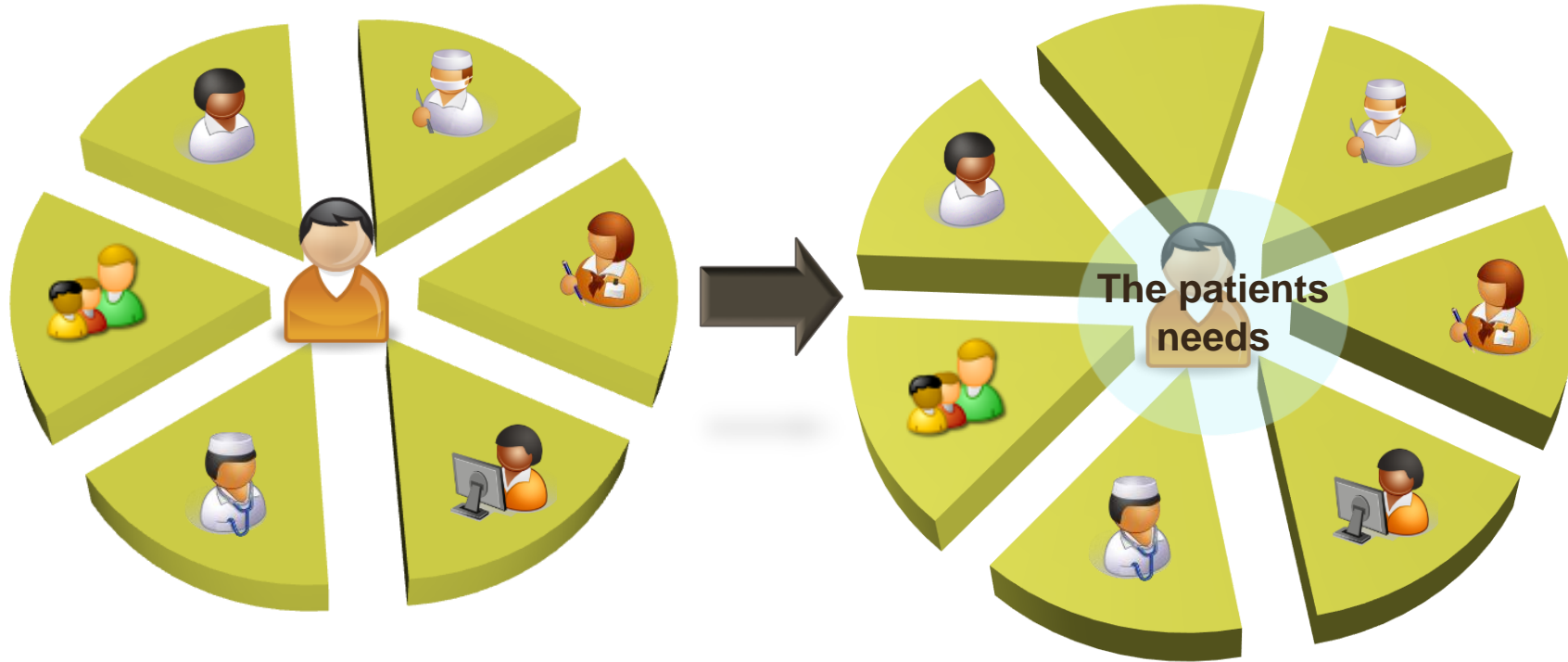
## Inera – basic facts

- Inera is a company owned by SALAR, the county councils and the local authorities
- The role of Inera is to coordinate the common development of digital services of the shareholders and provide them with national services, that is services for the citizens and for healthcare staff and staff in the municipalities, along with related infrastructure and architecture
- The company revenue is approximately 80 million euro a year

# Until today more than 40 e-health services - and around 30 projects of development



# Our goal: a shift in perspective

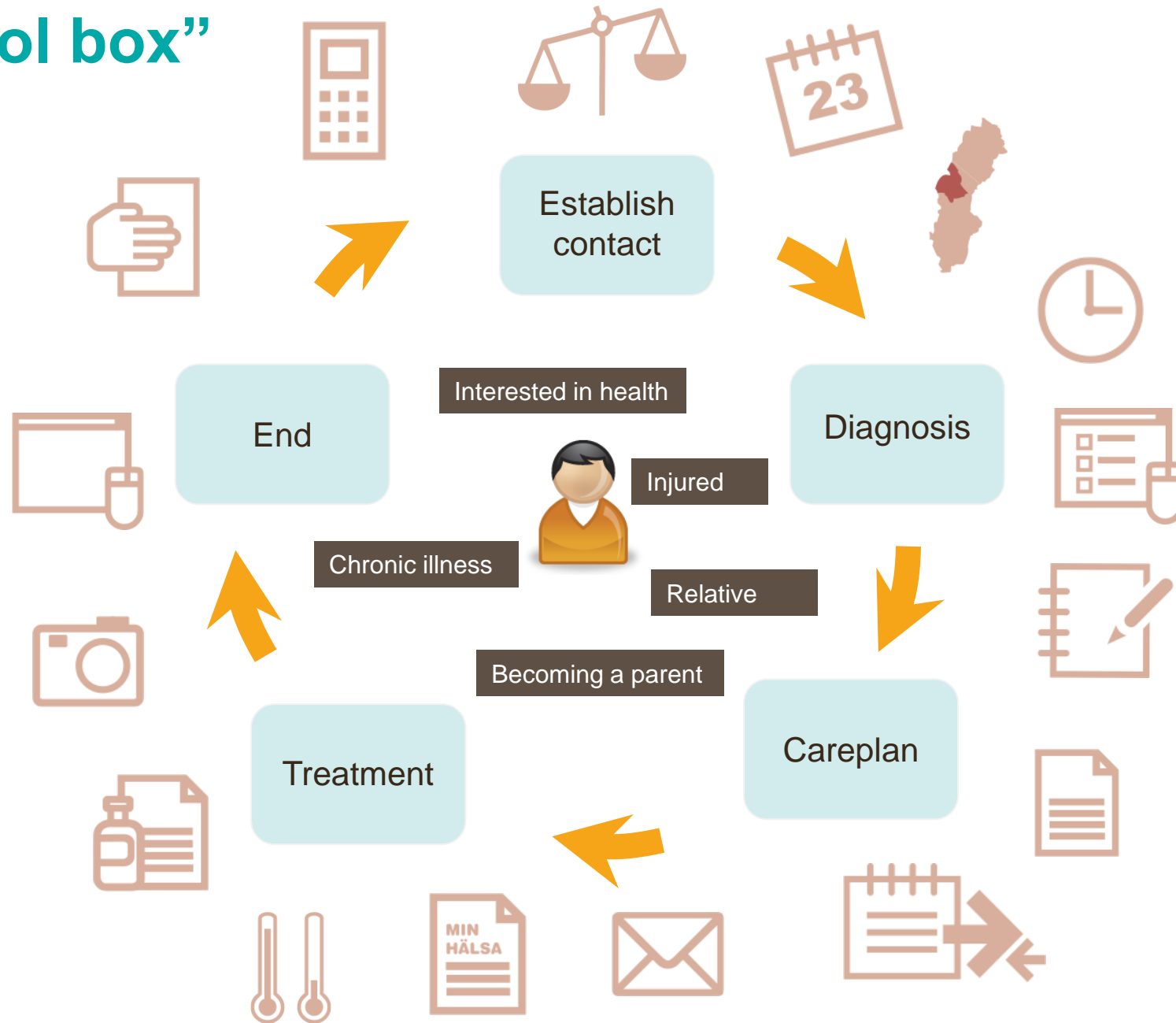


The patient at the center

The patient in the team



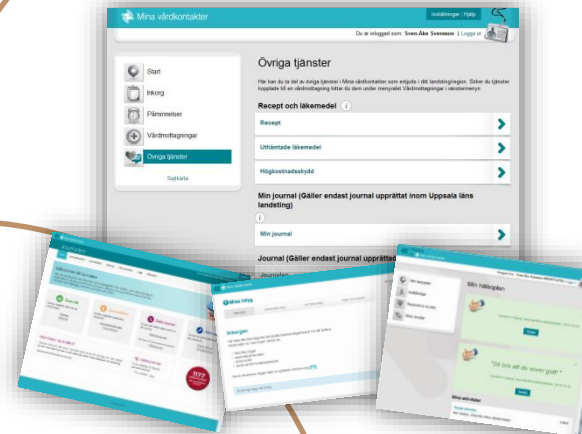
# A "tool box"



## Health Care Portals



## Personal e-Services



## Health Advice by Phone



Three categories of services

## 1177 - health advice by phone

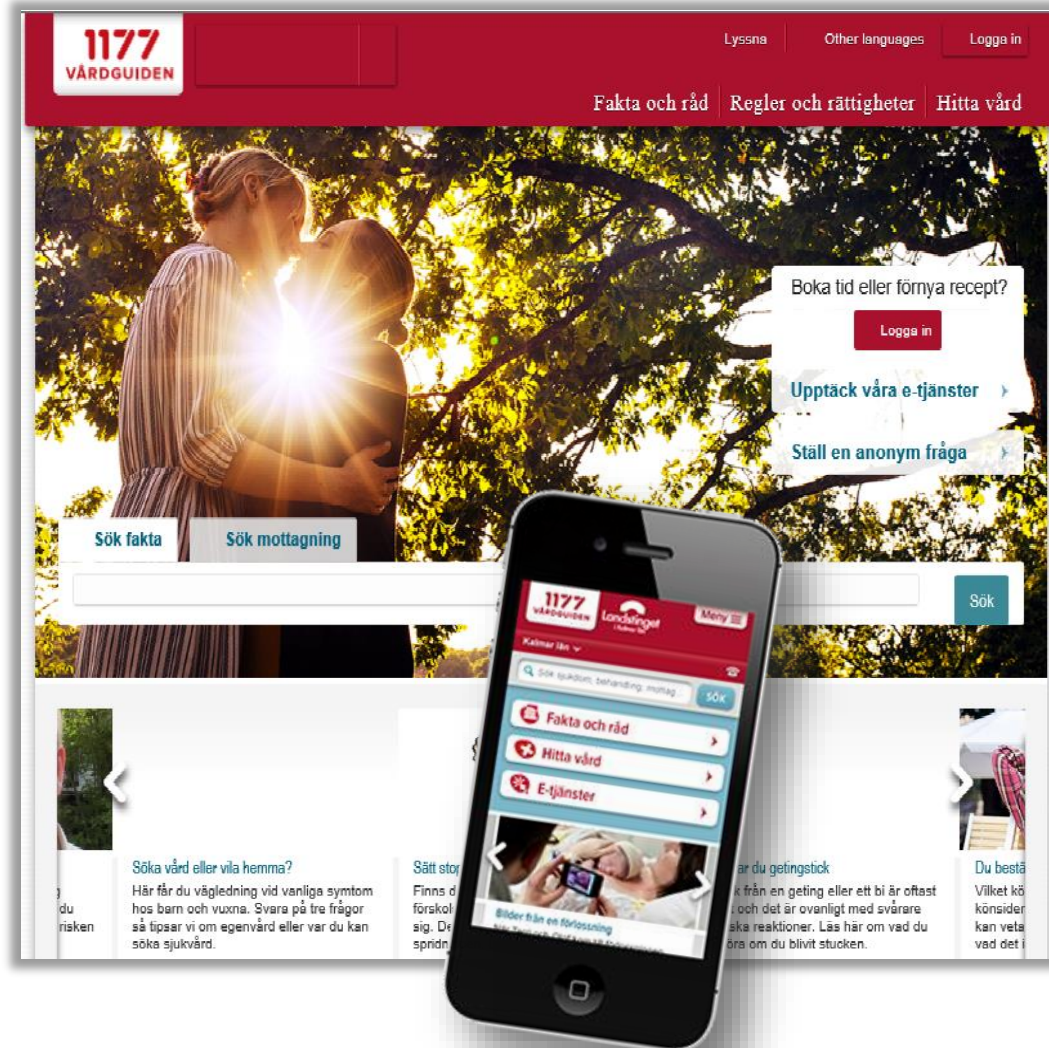
1177 is a national service. If you need health advice you can call 1177 - 24x7x365 wherever you are

- 460 000 people call 1177 each month
- 50% are given advice on self-care
- The other 50% are directed to the right level of care
- More than 90% are satisfied and follow the advice



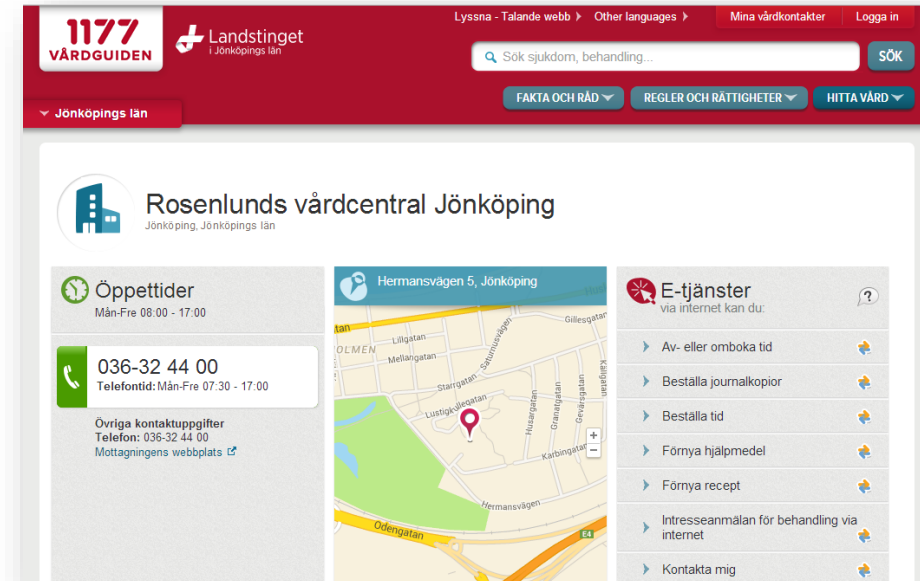
# 1177.se – national healthcare portal

- Thousands of articles about health care, diseases, symptoms, medicines and treatments
- Pictures, videos, graphics
- 10 000 anonymous questions answered by doctors
- More than 8 million visits per month.



# 1177.se – contact and compare clinics

- Contact information to all clinics in Sweden
- Possibility to compare health clinics – availability, waiting times and patient satisfaction



# UMO – youth clinic online

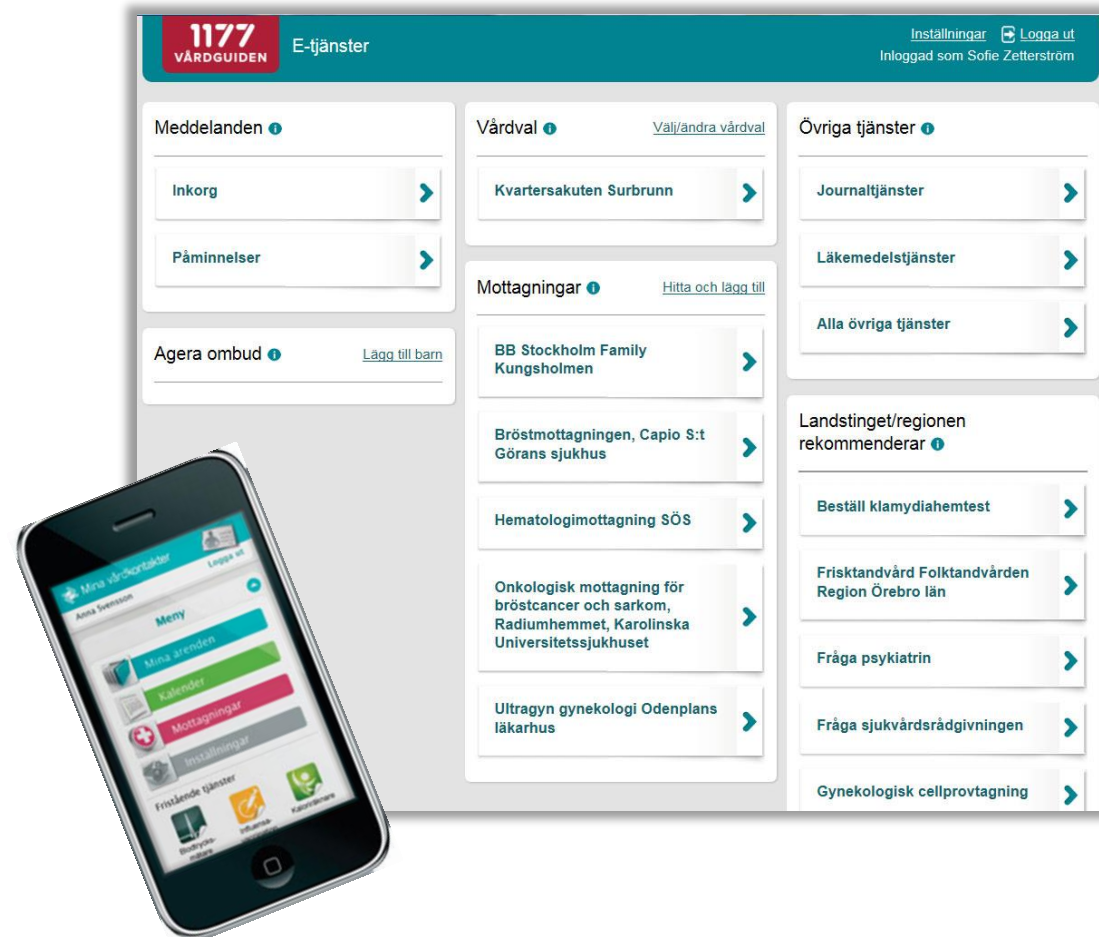
- For young people 13-25
- Information about, health, relationships and sex
- Information on equality of gender, sexual orientation, ethnicity and disabilities
- 10 000 anonymous questions answered by youth clinic professionals
- One million visits each month



# national personal e-services

A national platform for all personal e-services and medical records.

- Personal health advice
- Book an appointment
- Renewing prescriptions
- Ordering home-tests
- List of your medicines
- Test results
- Manage services for your children
- *and much more...*
- 4 million users



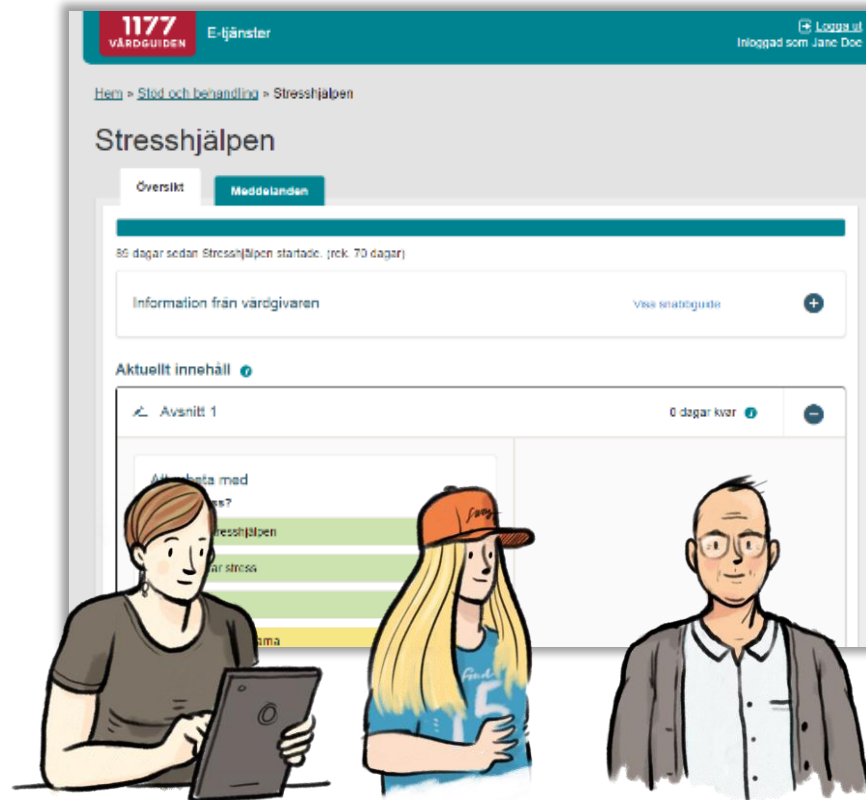
# Health support and treatments online

## Treatments:

- Depression
- Anxiety
- Phobias
- Insomnia
- ...

## Health support:

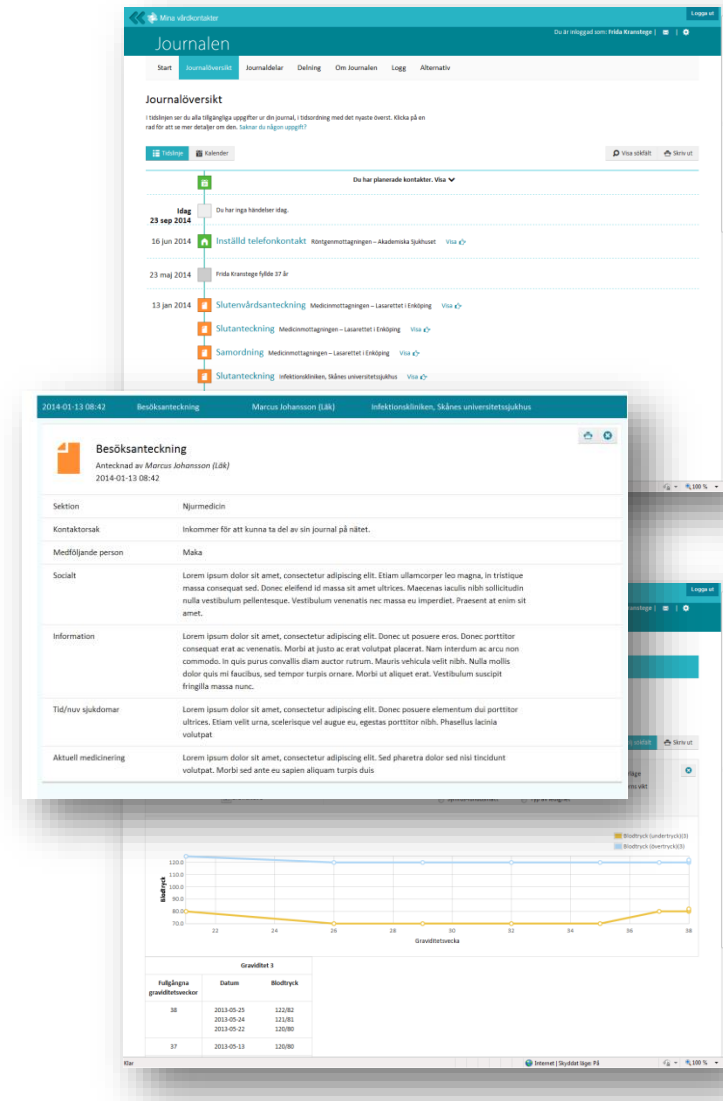
- Changing lifestyle
- Rehabilitation
- Drug addiction
- ...





# Medical records online

- 18 counties have made medical records accessible online for citizens. All the other regions in Sweden will follow in 2017
- Providing records from clinics and information about immunizations, prenatal care, child care, drugs, test results, health care contacts, referrals ...
- 1,3 million users, and increasing



## Research on patients shows

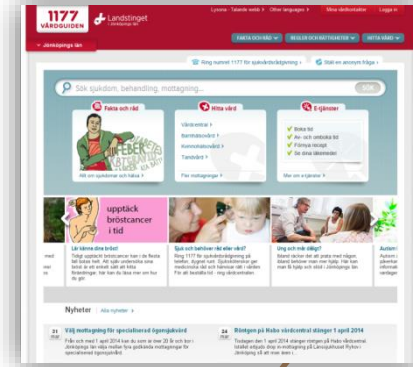
- Positive response to having access to the medical records
- The service is considered useful
- Patients follow up what was said at the last appointment
- Consider themselves better prepared for medical appointments and more informed about their own health
- They are comfortable with the service and have no worries about security issues
- Most patients want more information than is accessible
- Frustration when information is not readily available, e.g. unverified test results

**What can we offer our citizens in the coming years?**

**Maria Ekendahl, project manager "Future 1177 Vårdguiden"**

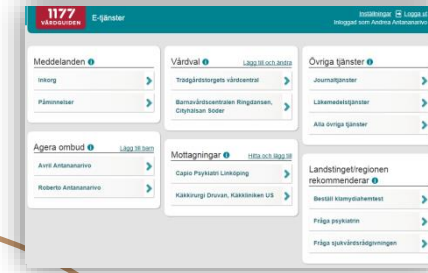


# Healthcare Portal



1999-2010

# E-services



2006-2015

# Healthcare Advice by Phone



2006-2013



Bokade tider

23 JAN 10:00 **Läkarbesök, Arne...**  
Bokad medverkan via videolänk .

Starta videomöte

Aktiveras 5 min innan

31 JAN 10:00 **Cellprovtagning**  
Samaritens vårdcentral, Up...

12 FEB 14:30 **Uppföljning provsv...**  
Samaritens vårdcentral, U...

Vaccin

8 jun, 8:30 **TBE-vaccination**  
Vaccin mot fästingburen hjärninflammation, TBE, är avsett för personer som är 16 år och äldre.  
Grundvaccinationsschemat är likadant för alla personer och består av tre doser. Den första dosen och den andra ...

Påminnelser

Ändra tid

Anteckningar

1 feb, **Årskontroll, Tandhälsan**  
Uppsala

13 dec, **Vaccination, Vaccinet TBE-vaccin** nummer 1 (av 3) gavs i vänster överarm av ssk Eva Andersson.  
Ingen känd överkänslighet för läkemedel eller andra ämnen.  
Inga kontraindikationer till ...

10 aug, **Öronspolning, Samaritens vårdcentral**  
Uppsala

Mottagningar

Favorit:  
**Samaritens vårdcentral**  
Sjukhusvägen 13  
752 00 Uppsala

Besökta:  
**Samaritens vårdcentral**  
Sjukhusvägen 13  
752 00 Uppsala

Min översikt

**Arne Enoksson** Far

Jus **Hanna Eriksson** Dotter

2 pågående ärenden  
**Kristina Eriksson**

5 pågående ärenden  
**Arne Enoksson**

2 pågående ärenden  
**Hanna Eriksson**

Läkemedel & hjälpmedel

**Fluoxetin 20 mg, 1 per dag**  
1 uttag kvar, senast 1 jan 2018

Möjlig framtidsvision



Du har angett att du har ont i ryggen. I vilken del utav ryggen sitter smärtan?

Nedre delen, ländrygg

Övre axlar och skulderblad

Jämn värk i hela ryggen

Ont i nedre delen utav ryggen kan bero på många olika saker. Hur skulle du beskriva smärtan?

Molande värk

Huggande värk

Stickningar och domningar

Okej, molande värk i ländryggen. Om du försöker beskriva hur ont det gör på en skala där 1 är minsta tänkbara och 10 är mesta tänkbara värk, hur skulle du då beskriva din värk?

1

2

3

4

5

6

7

8

9

10

Jag förstår. För att kunna ge dig en bra rekommendation skulle jag behöva veta ungefär hur länge du har haft denna värk?

Mindre än 3 dagar

Mindre än en vecka

Mer än en vecka



ont i öronen

Ja

Har du tagit tempen med en termometer nyligen?

Nej, har ingen termometer

Bedömer du att du har hög feber?

Nej

Hur länge har febern varat?

Mindre än 1 dygn

Är ditt ytteröra svullet eller utstående?

Ja

Nej



# **Infrastructural services**

**Mikael Johansson, IT-strategist, Inera**

# ICT in the Counties and Municipalities

## Counties

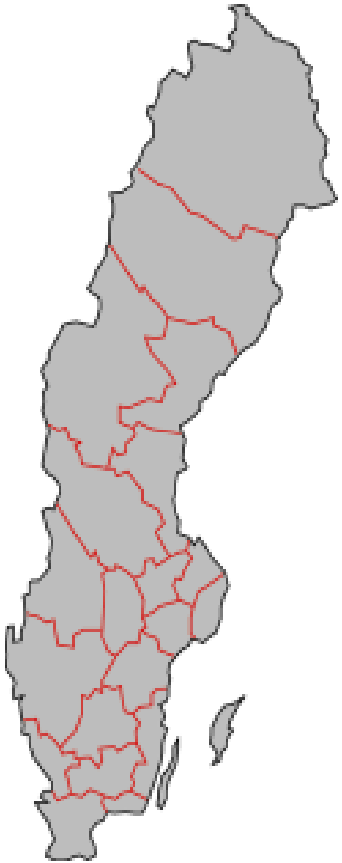
- Total cost of IT (incl. own staff) in the Counties is estimated to €1.02 Billion (\$1.13 Billion)
- Estimated to 2,9 % of turnover (has been so for 10 years)
- 75% purchased on the market

## Municipalities

- Much more dependent on their system provider than counties
- High focus on digitalization

# ICT in the Counties and Municipalities

## Counties



### Vendor & System name

- Cambio, Cosmic
- Evry, System Cross
- Norrbotten, VAS
- CompuGroup Medical, Take Care
- Cerner, Melior

## Municipalities

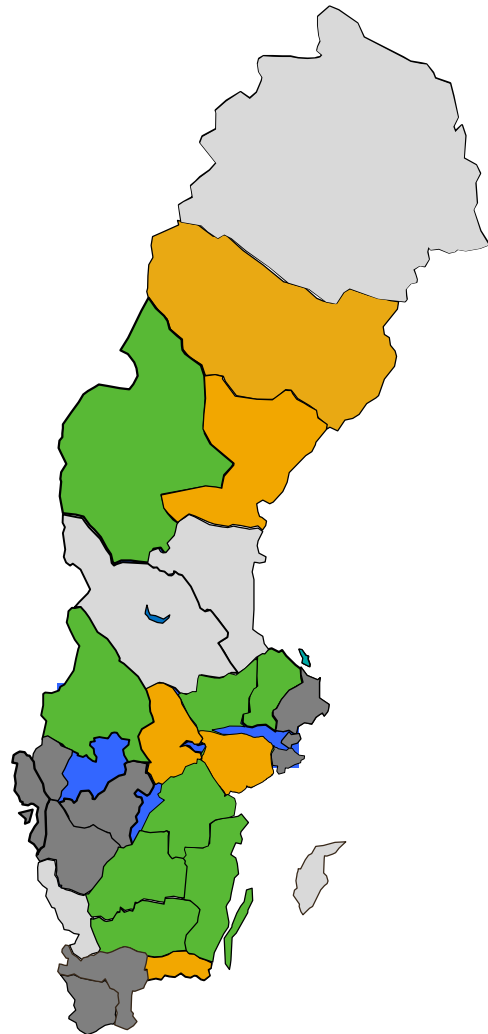


### Vendor & System name

- Tieto, ProCapita
- CGI Group, Treserva
- Pulsen, Magna Cura
- Cambio, Viva

# Future healthcare information systems

## Cooperation for procurement between the counties 2015



### Cosmic: 2,2 milj invånare

- ◆ Jämtland
- ◆ Värmland
- ◆ Västmanland
- ◆ Uppsala
- ◆ Östergötland
- ◆ Jönköping
- ◆ Kronoberg
- ◆ Kalmar

### Övriga, 1,2 milj invånare

- ◆ Norrbotten
- ◆ Dalarna
- ◆ Gävleborg
- ◆ Gotland
- ◆ Halland

### SUSSA: 1,2 milj invånare

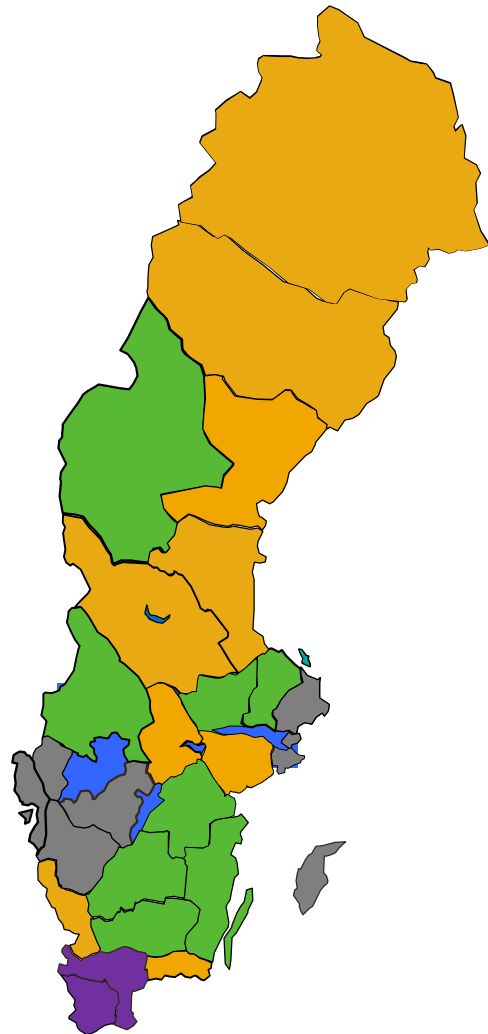
- ◆ Västerbotten
- ◆ Västernorrland
- ◆ Örebro
- ◆ Sörmland
- ◆ Blekinge

### 3R: 5,1 milj invånare

- ◆ Västra Götaland
- ◆ Skåne
- ◆ Stockholm

# Future healthcare information systems

Cooperation for procurement between the counties 2016



## Cosmic: 2,2 milj invånare

- ◆ Jämtland
- ◆ Värmland
- ◆ Västmanland
- ◆ Uppsala
- ◆ Östergötland
- ◆ Jönköping
- ◆ Kronoberg
- ◆ Kalmar

## 3R

### 3,9 milj invånare

- ◆ Stockholm
- ◆ Gotland
- ◆ Västra Götaland

### 1,3 milj invånare

- ◆ Skåne

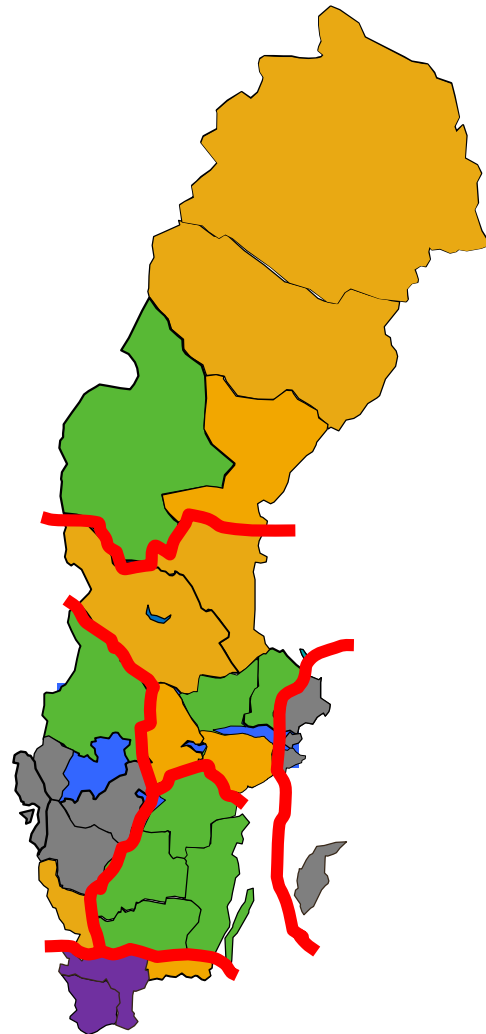
## SUSSA: 2,4 milj invånare

- ◆ Västerbotten
- ◆ Västernorrland
- ◆ Örebro
- ◆ Sörmland
- ◆ Blekinge

### Option

- ◆ Norrbotten
- ◆ Dalarna
- ◆ Gävleborg
- ◆ Halland

# 2016: Proposal for larger regions starting 2019 or 2023



## Cosmic: 2,2 milj invånare

- ◆ Jämtland
- ◆ Värmland
- ◆ Västmanland
- ◆ Uppsala
- ◆ Östergötland
- ◆ Jönköping
- ◆ Kronoberg
- ◆ Kalmar

## SUSSA: 2,4 milj invånare

- ◆ Västerbotten
- ◆ Västernorrland
- ◆ Örebro
- ◆ Sörmland
- ◆ Blekinge

## Option

- ◆ Norrbotten
- ◆ Dalarna
- ◆ Gävleborg
- ◆ Halland

## 3R

### 3,9 milj invånare

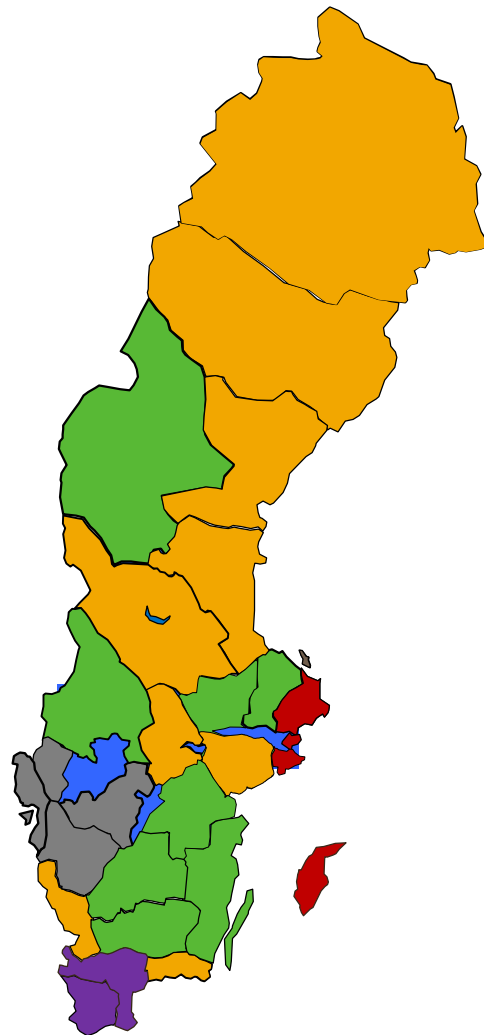
- ◆ Stockholm
- ◆ Gotland
- ◆ Västra Götaland

### 1,3 milj invånare

- ◆ Skåne

# Future healthcare information systems

## Cooperation for procurement between the counties 2017



### Cosmic: 2,2 milj invånare

- ◆ Jämtland
- ◆ Värmland
- ◆ Västmanland
- ◆ Uppsala
- ◆ Östergötland
- ◆ Jönköping
- ◆ Kronoberg
- ◆ Kalmar

### SUSSA: 2,4 milj invånare

- ◆ Västerbotten
- ◆ Västernorrland
- ◆ Örebro
- ◆ Sörmland
- ◆ Blekinge

### Option

- ◆ Norrbotten
- ◆ Dalarna
- ◆ Gävleborg
- ◆ Halland

### Stockholm, Gotland: 2,3 milj invånare

- ◆ Stockholm
- ◆ Gotland

### Västra Götaland: 1,6 milj invånare

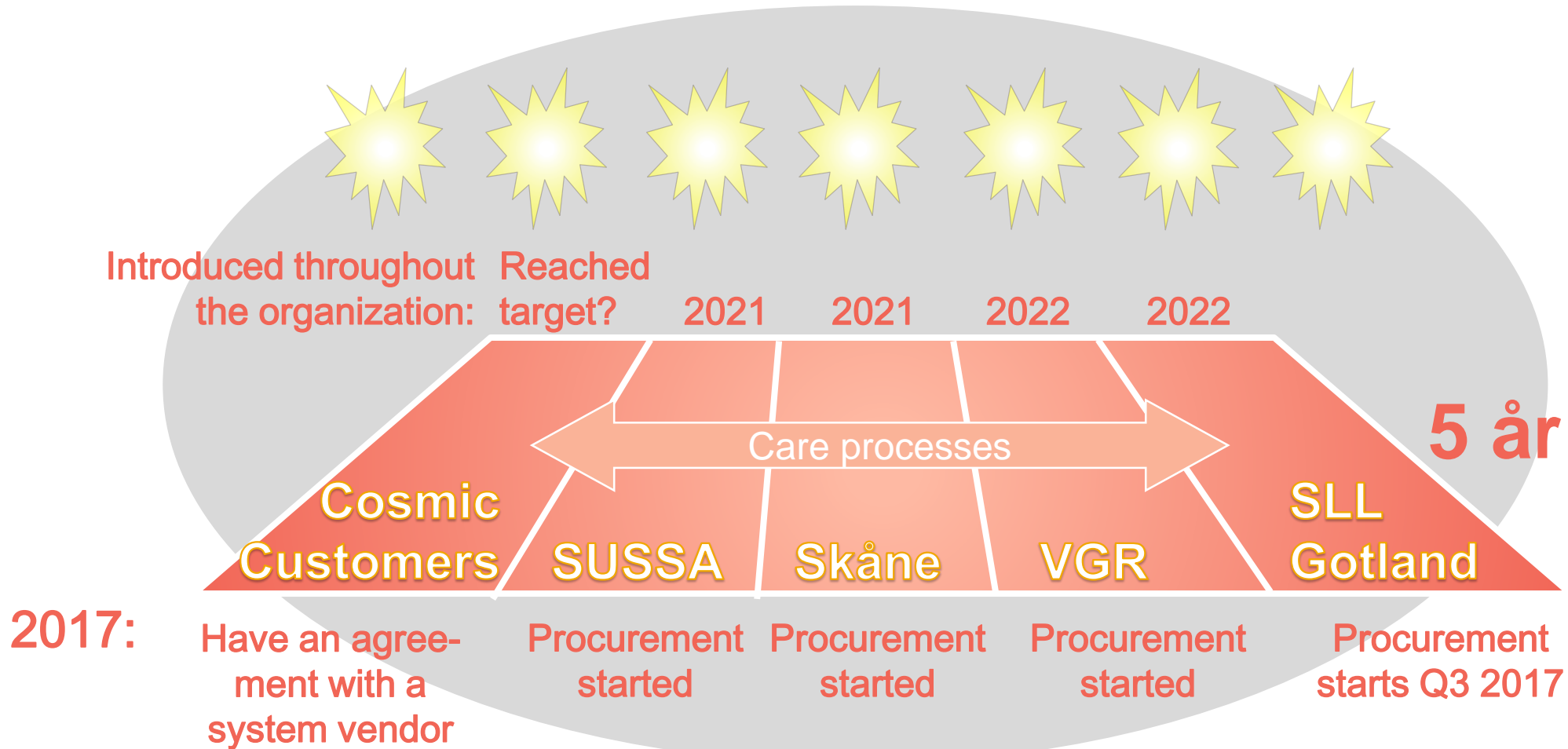
- ◆ Västra Götaland

### Skåne: 1,3 milj invånare

- ◆ Skåne

# Lights on the procurement groups 2017

in the race towards the next healthcare information system for the counties

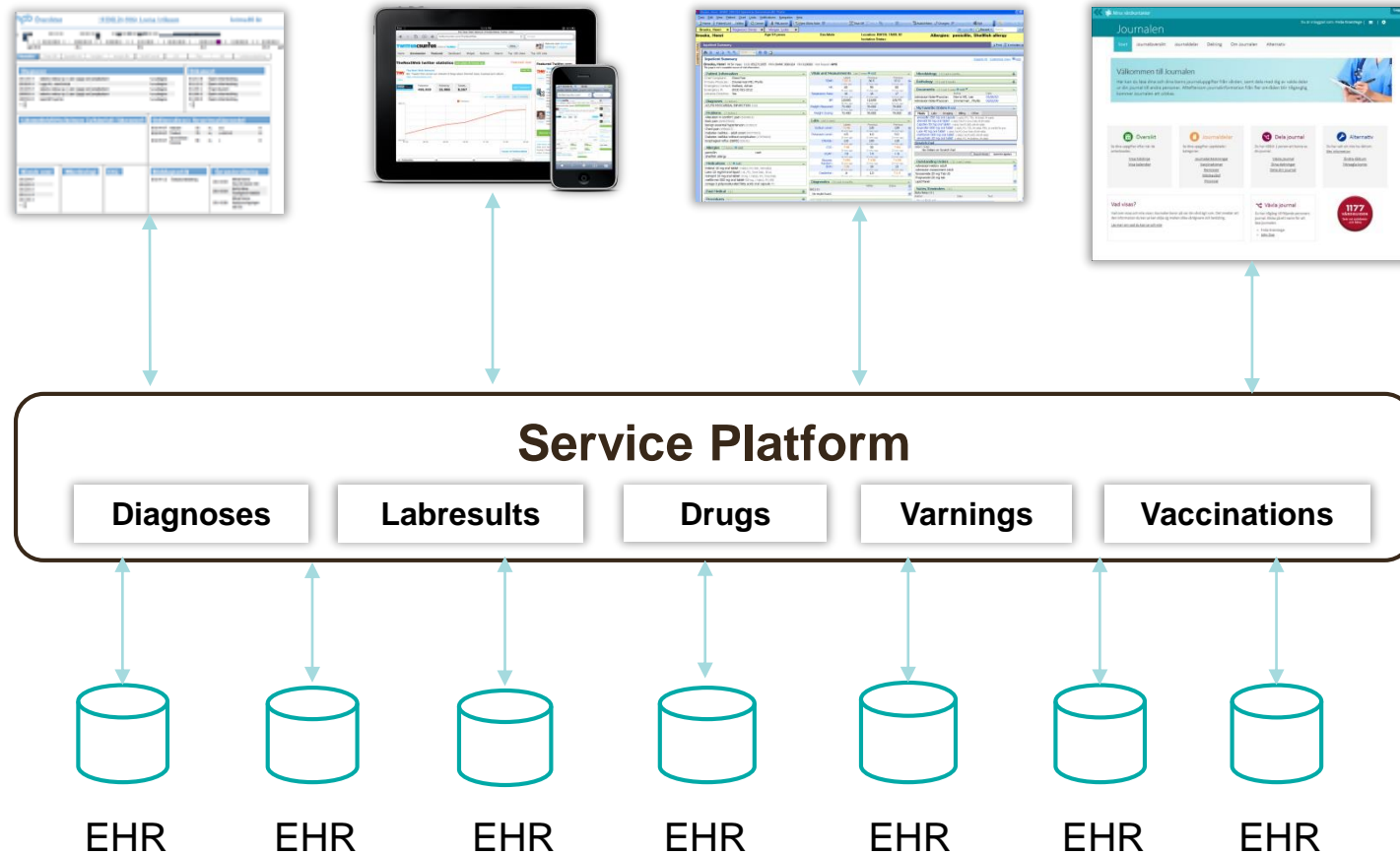




# National eHealth ICT Infrastructure

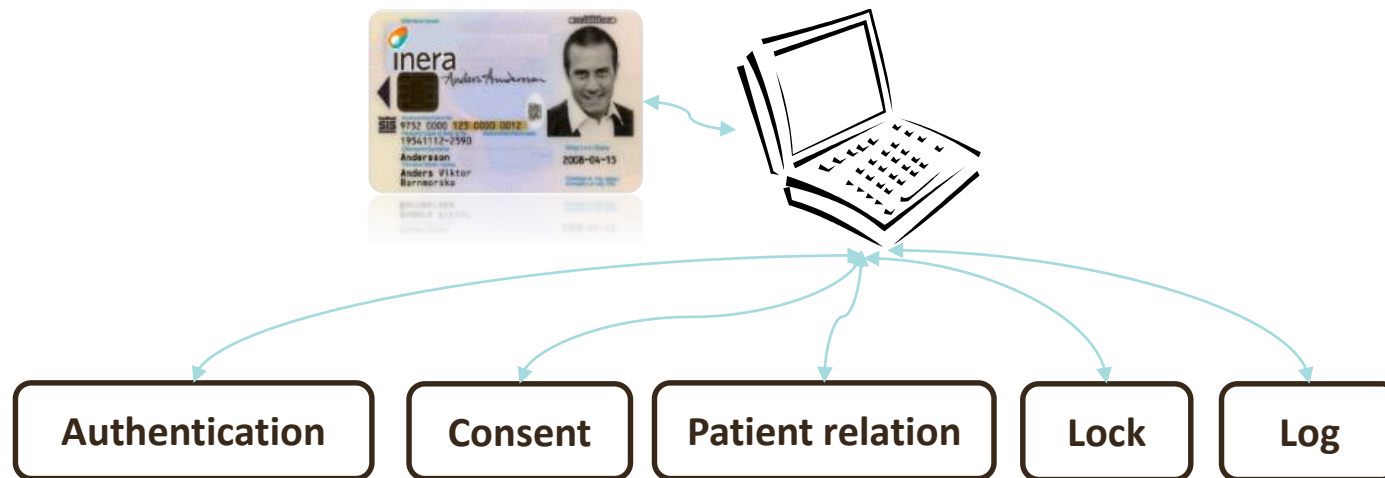
- Meet the requirements of the Patient Data Act and the goals in the National eHealth strategy.
- Interoperability, security, cost-effective information access between counties, municipalities, government agencies and private providers.

# National service platform for interoperability



# Services for compliance with the patient data act

- Public Key Infrastructure (PKI)
- Services for authentication, consent, patient relation, lock and log
- Directory service with all healthcare professionals. Organizations and units with employee assignments



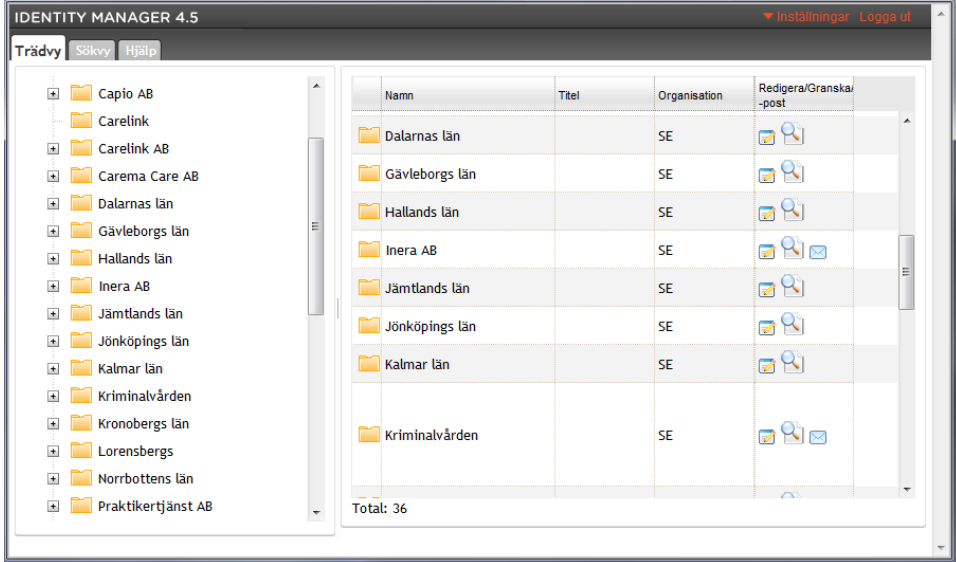
# National Public Key Infrastructure

- ID for both physical and electronic identification
- More than 500,000 cards have been issued
- Connected organisations:
  - › All 21 Counties
  - › All 290 Municipalities
  - › Lots of private organisations



# National directory service

- Quality assured data regarding employees, organizations and units with employee assignments
- Information in the directory is used by many different services and it is a key component for access and security services.
- All counties, municipalities, as well as private healthcare providers use this directory service.



The screenshot shows the Identity Manager 4.5 web interface. On the left is a tree view of organizational units, and on the right is a table listing these units with columns for Name, Title, Organisation, and Redigera/Granska/-post. The table lists various Swedish counties and private healthcare providers.

Namn	Titel	Organisation	Redigera/Granska/-post
Dalarnas län		SE	[Icons]
Gävleborgs län		SE	[Icons]
Hallands län		SE	[Icons]
Inera AB		SE	[Icons]
Jämtlands län		SE	[Icons]
Jönköpings län		SE	[Icons]
Kalmar län		SE	[Icons]
Kriminalvården		SE	[Icons]

Total: 36

# National communication network

- More than 500 connected organizations
- All 21 counties are connected
- Several municipalities, private healthcare providers and suppliers are also connected
- Very high availability, close to 100%
- Quality of Service that meets demands



# Performance measurement and national indicator sets in Sweden

**Quality and Efficiency in Swedish Health Care –  
Regional Comparisons and web based reporting in *Health Care In Numbers /Vården i Siffror***

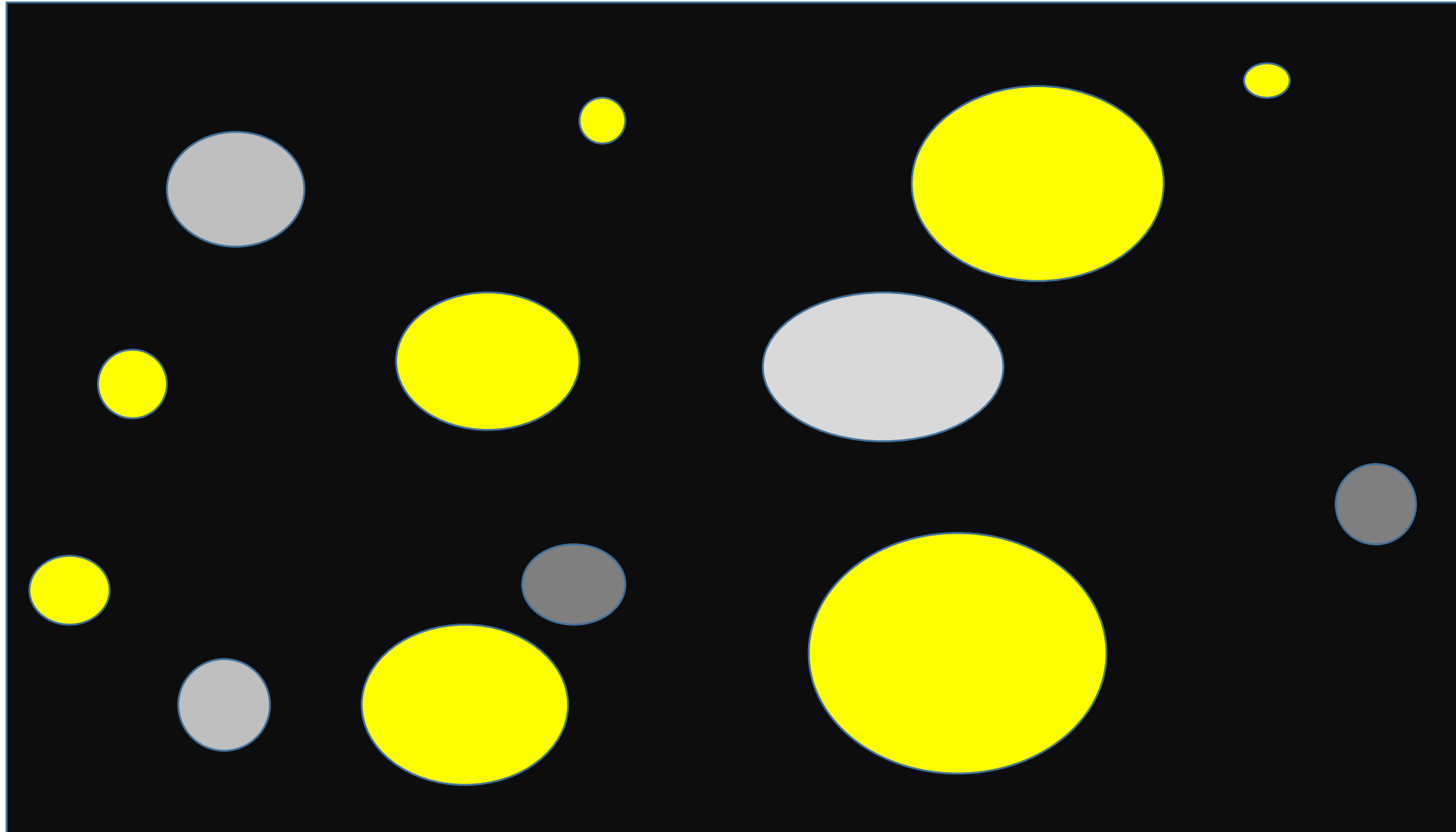
**Fredrik Westander, SALAR**

**Adam Sandebring, SALAR**

**Mailadress: [fredrik.westander@skl.se](mailto:fredrik.westander@skl.se)**



Quality in the health care system - we have good data JUST for some parts/aspects of care – yellow spots. Grey spots – some data, but not good enough. And also large black areas – aspects/areas where much less data is available: Complex quality aspects, multimorbidity. We need to be humble. We cant measure "everything"





# Health Care Quality Indicators - Reporting System

## Three types of reports & indicator sets

- Regional Comparisons - health care quality – now mainly web-based reporting (SALAR) + yearly reporting from NBHW (= Socialstyrelsen, the state agency)
- National Performance Assessments – evaluation of goals in National Guidelines (Socialstyrelsen)
- National Quality Registries – yearly reports

## National Quality Registries (close to 100 registries from large to very small)

- Not mandatory, based on professions/medical societies
- Gradually a more formal part of the national/public framework
- Large increases in public funding in later years

Overlapping sets of indicators – we try to harmonize when choosing indicators

Healthcare in Numbers (SALAR) and National Board of Health & Welfare cooperate



In comparison to other countries - good health care quality data available from Swedish registries (we think...)

- **Personal/unique ID** used in all vital registers – all citizens
- **Mandatory Patient Register** for out-/inpatient episodes of care
- **Prescribed Drug Register** for outpatient drugs
- **Quality Registers** includes more/accurate clinical information, outcomes
- **Combined use of these registers = powerful tool**

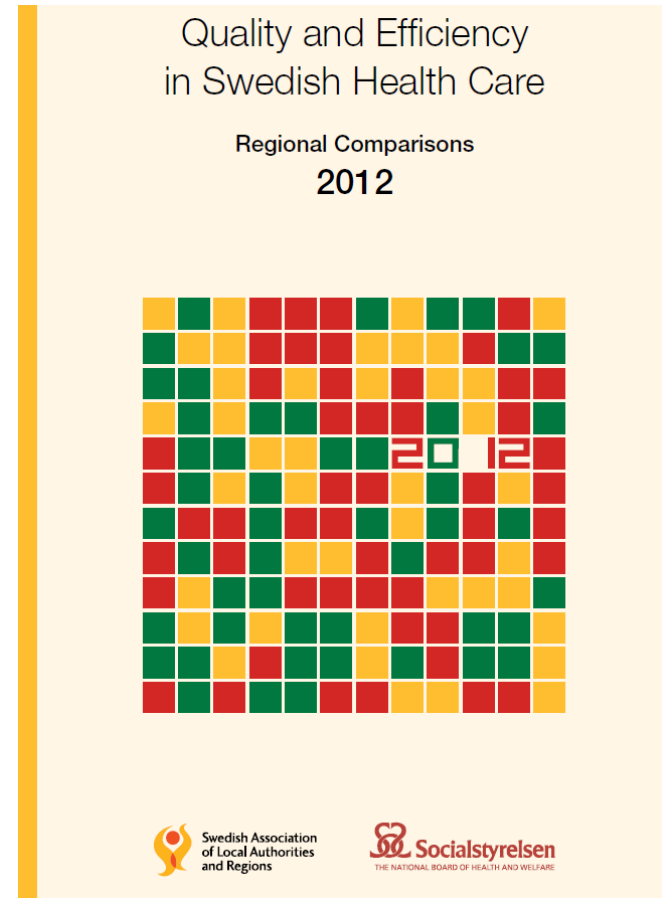
Good data available, but also some obvious gaps:  
No good data on breast cancer screening, flu immunization of elderly, primary care data ...

# Regional Comparisons of Health Care Quality

- Published yearly 2006-2014;
- About 260 indicators 2014 (most updated yearly)
- State & CC:s (SALAR) in cooperation. Symbolic value



- Main stated purposes:
  - Support county councils improvement efforts
  - Transparency, accountability
  - Inform health care debate – locally and at national level



# The present day (2017) reporting model

## SALAR - Mainly web base reporting

Quality and Efficiency in Swedish Health Care  
Regional Comparisons 2012

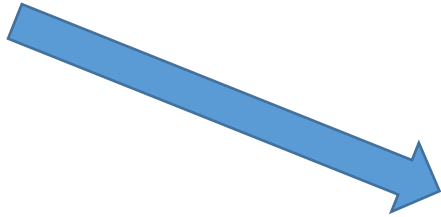
No large printed report or "all included" catalogue any longer

Swedish Association of Local Authorities and Regions  
Socialstyrelsen THE NATIONAL BOARD OF HEALTH AND WELFARE



Sjukhusens KVALITETS DATA  
NYA SIFFROR VISAR PÅ TYDLIGT BÄTTRE VÅRD

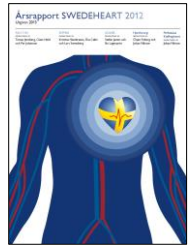
Här hittar du information från:  
105 Sjukhus  
1359 Vårdenheter  
348 Indikatorser  
50 Register  
3 Rapporter



Various reports, based on formal performance indicators. Evaluation of clinical guidelines etc



Plus Quality Register: Yearly reports and also web based reporting for the largest registers.



Messy model? Not really a problem, but we need to think about solid solutions for the future.



# National Quality Registries

In 2016: 96 National Quality Registries (NQRs); 12 NQR candidates; all initiated and led by healthcare professionals

NQRs cover many areas of healthcare, from common to rare conditions, from nursing and primary to tertiary care.

Examples: Stroke; Ischemic heart disease; Heart failure; most forms of cancer; Bipolar disorder; Eating disorders; End-of-life care; Neurology with MS, Parkinson's etc; Dementia care; HIV-AIDS; Diabetes Mellitus; Orthopedics



# Financing and Governance

- The Ministry of Health and Welfare (70 %);  
Swedish County Councils and Regions (30 %)
- Funding is provided according to specified criteria; \$50,000 - \$800,000 annually/registry
- The more mature the NQR, the greater the expectations on it and the potential funding
- Each NQR is governed by a multiprofessional group of national experts, and often patients



# Registries Contain Data On:

Initiated before the emergence of electronic health records (EHRs), most registries operate in parallel with EHRs. Integration is desired but occurring only slowly.

- Patient demographics
- Provider organization characteristics
- The Structure of care
- The Process of care (including patient-reported experience measures; **PREMs**)
- The Outcomes of care (including patient-reported outcome measures; **PROMs**)

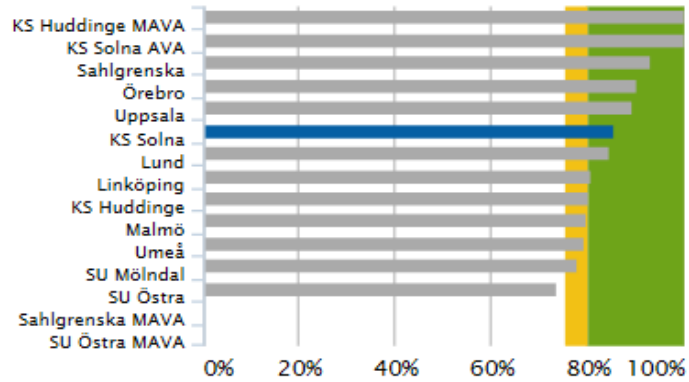


Swedeheart – QR for heart attack and related heart conditions: On line reporting of performance – individual hospitals. Green is full goal fulfillment. Yellow is partial goal fulfillment. Good, valid quality indicators. Powerful tool.

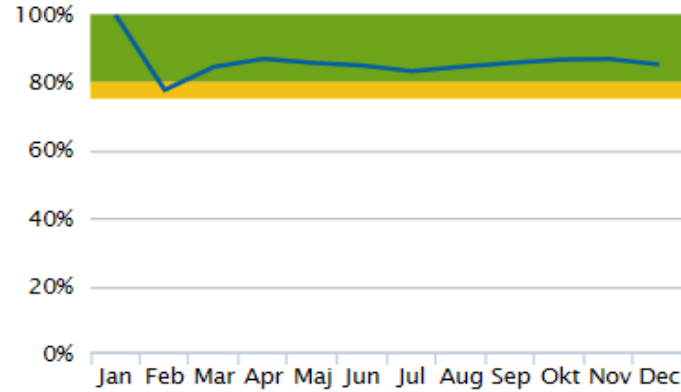
2. Reperfusion i tid



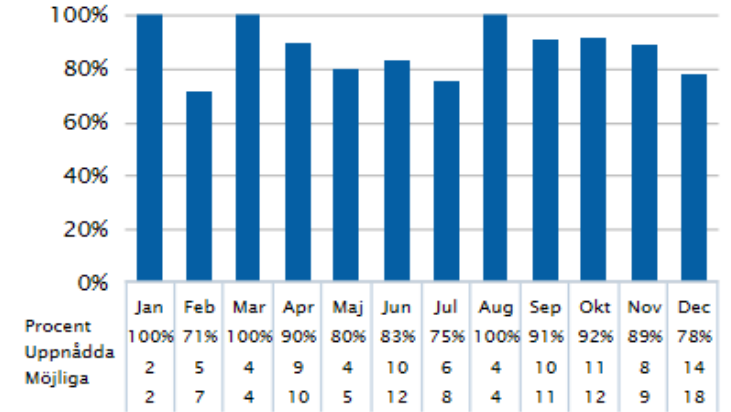
Ranking



Trend



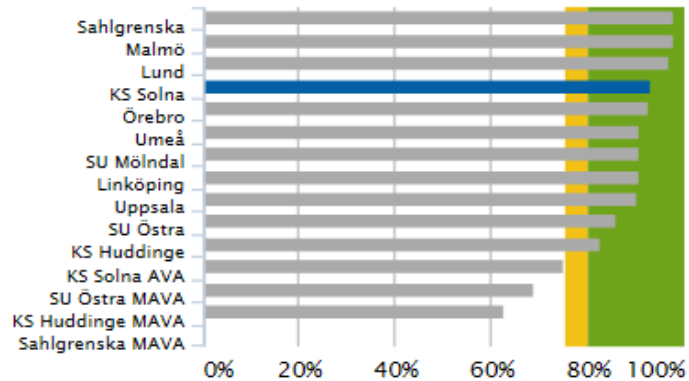
Månadsresultat



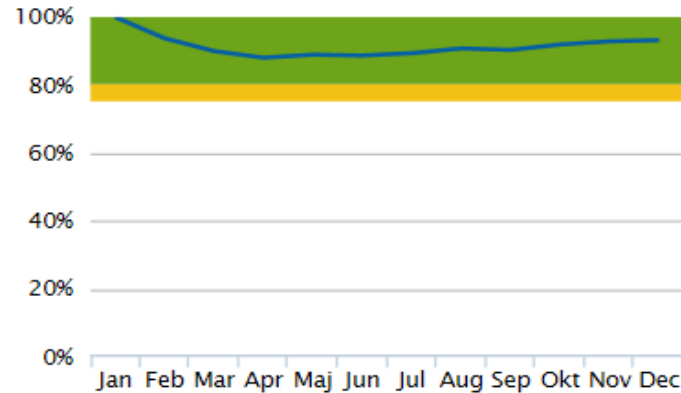
3. Kranskärlsröntgen NSTEMI



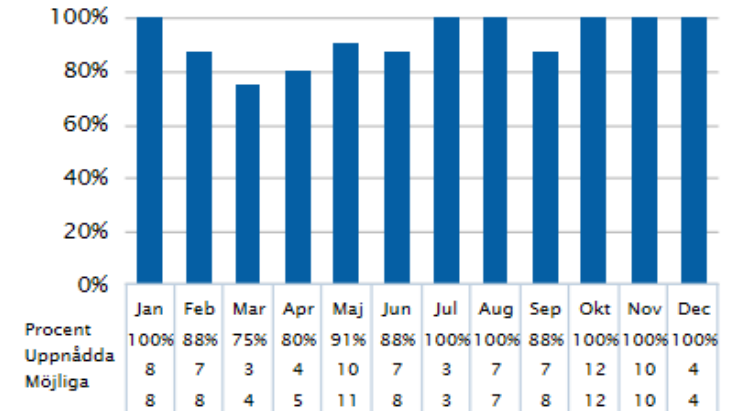
Ranking



Trend



Månadsresultat





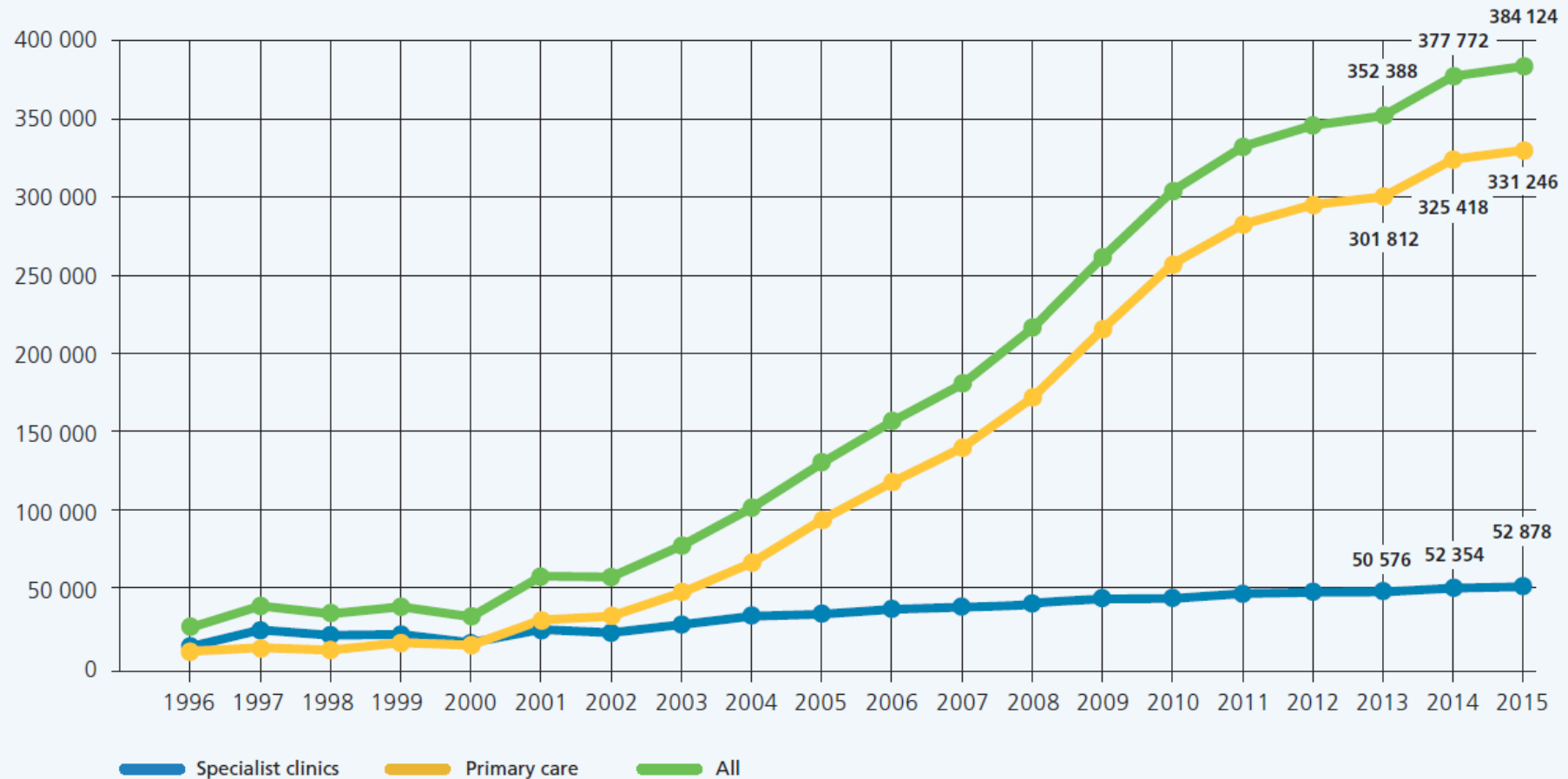
# NDR, National Diabetes Registry

- 100 % of hospital-based diabetes centers
- > 90% of primary care/general practice centers, about 1200
- Covers about 90% of all individuals with diabetes in Sweden
- Direct transfer of relevant patient data (via EHR-extracting software)
- Results per center and county council are public and easy to access
- Funding
  - Swedish Association of Local Authorities and Regions
  - Region Western Sweden

# Number of patients

9.5 million inhabitants, < 5% diabetes prevalence

Number of patients entered in NDR, 1996–2015



Primärvårdsenheter ▾

14 036 personer

med diabetes under senaste 12 månaderna

34 vårdenheter

---

**Primärvårdsenheter** 30

Medicinkliniker 4

Landstingets medelvärde för HbA1c

Jämförelse mellan landsting för HbA1c

Senaste 12 månaderna

**Resultatöversikt för Primärvårdsenheter** ⓘ

Indikator (andel med)	Dalarna 2016	Riket 2016
<span style="color: red;">●</span> HbA1c <52	45%	51.5%
<span style="color: red;">●</span> HbA1c >70	12.1%	10.7%
<span style="color: red;">●</span> Blodtryck ≤130/80	36.2%	40.3%
<span style="color: red;">●</span> Blodtryck <140/85	51.6%	53.8%
<span style="color: red;">●</span> LDL <2,5	45%	48.2%
<span style="color: green;">●</span> Lipidsänkande läkemedel	68.2%	61.6%
<span style="color: green;">●</span> Förekomst av albuminuri	20.1%	23.2%
<span style="color: green;">●</span> Fotundersökning senaste året	93.4%	86.7%
<span style="color: green;">●</span> Genomförd ögonundersökning enligt riktlinjer	96.9%	89.9%
<span style="color: red;">●</span> Förekomst av diabetesretinopati	38.4%	27.3%
<span style="color: green;">●</span> Rökare	12.3%	13.5%
<span style="color: green;">●</span> Andel fysiskt inaktiva	27.1%	33.6%

**HbA1c <52**

Kvinnor och män ▾      Typ 1 och 2 ▾

**National Diabetes Register**

A performance dashboard for CC Dalarna, primary care.

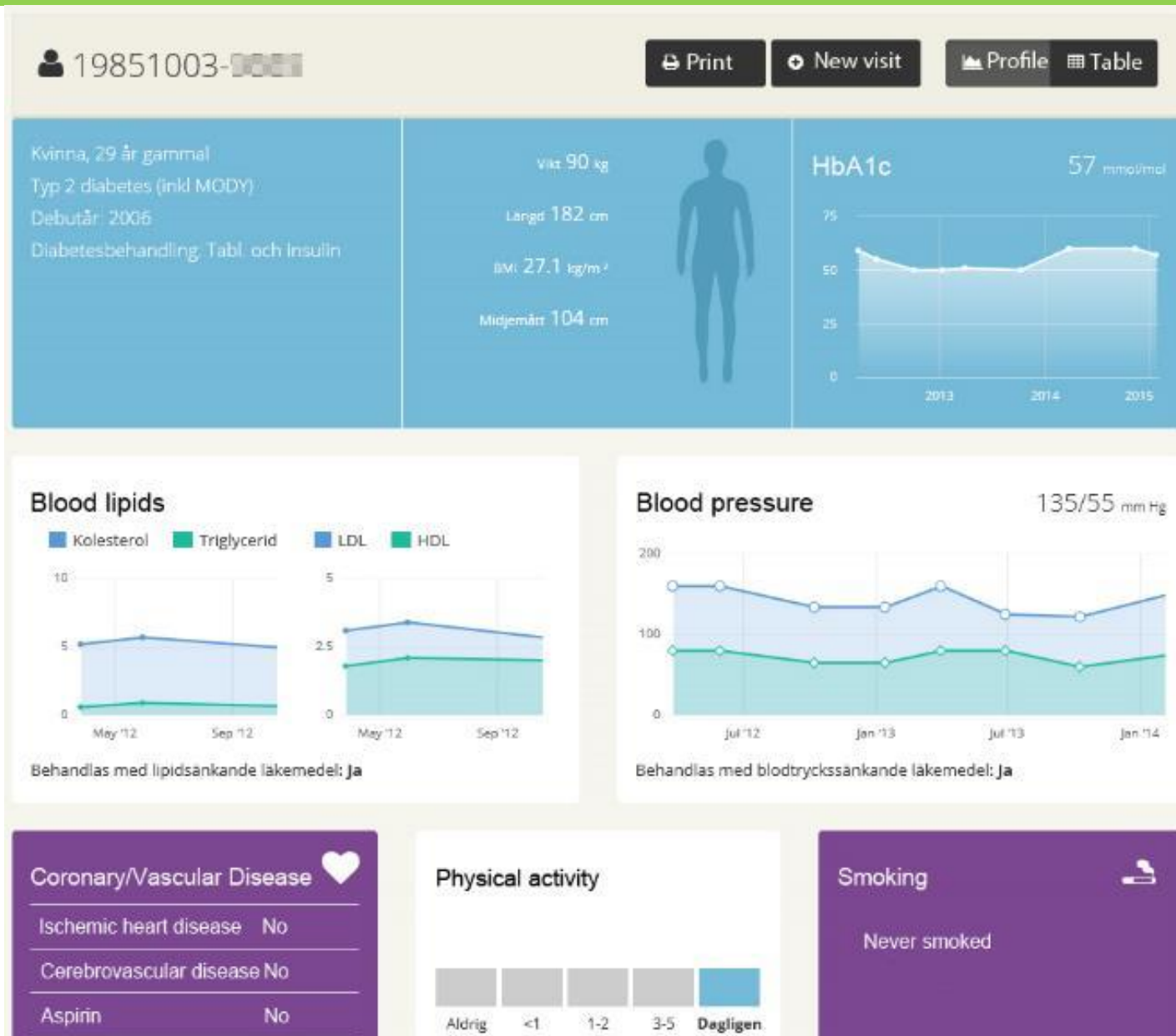
12 indicators; red and green scores (compared to Sweden results).

Blood pressure, foot/eye exams, blood glucose levels, smoking status, psysical activity etc

Results accessible on the web for all; even per primary care center.

Transparency! But also – of course – difficulties for the general public to interpret quality data.

# Patient profiles in NDR – a tool for empowering patients



# Regional comparisons/Healthcare in Numbers— characteristics

Covers whole health care system – in principle

Directed towards CC leadership, not hospitals directly (this could now shift somewhat)

Present valuable data to CC, not inspection = "soft power"

Comparisons between County Councils & between hospitals (now also units in hospitals)

Both process & outcome measures, in later years also national targets

Use only existing data sources; no temporary data collections

No ranking of "Best County Council", "Best Hospital" – difficult (and meaningless?)

Gradually – more focus on usability, improvement, change over time, not evaluation

# Cardiac Care in – indicators. (Now updated in more recent publications)

Not bad, but still, - imbalance: Too much focus on MI/heart attack. Too little on heart failure. A general problem with indicator sets – we are dependent on data availability and data quality. **What we can measure tends to get too much attention.**



Secondary prevention

Outcome

Process

Outcome

## CARDIAC CARE

- 86 Survival after Cardiac Arrest outside of Hospital .....
- 87 Myocardial Infarction – 28-day Case Fatality Rate .....
- 88 Myocardial Infarction – 28-day Case Fatality Rate – Hospitalised Patients .....
- 89 Recurrence of Infarction or Death from Ischaemic Heart Disease.....
- 90 Reperfusion Therapy for Patients with ST-segment Elevation Myocardial Infarction (STEMI) .....
- 91 Time until Reperfusion Therapy for Patients with ST-segment Elevation Myocardial Infarction (STEMI) .....
- 92 Coronary Angiography after Non-ST-segment Elevation Myocardial Infarction (NSTEMI) in Patients with Another Risk Factor .....
- 93 Antithrombotic Therapy after NSTEMI .....
- 94 Lipid Lowering Drug Therapy after Myocardial Infarction .....
- 95 PCI for Unstable Coronary Artery Disease – 365-day Case Fatality Rate .....
- 96 Restenosis of the Coronary Artery after PCI .....
- 97 Death or Readmission after Hospitalisation for Heart Failure.....
- 98 Drug Therapy for Heart Failure.....
- 99 Complications after Pacemaker Implantation.....

# National quality indicators – use in County Councils



## County Council perspective

Comparisons as a recurrent, yearly "event" – reports based on Healthcare in Numbers

National indicators as a local/regional benchmark tool

National indicators – part of CCs own indicator sets

Support for CC decision making, priority setting

Some CCs use quality indicators in pay for performance schemes (P4P)

But normally used just to support local improvement efforts – hospitals, clinics

## Development/selection of indicators – “tomorrow”

- National guidelines & quality registers will be important in years to come
- But gradually (2017 onwards) a new context will emerge – a national structure for coordination among County Councils/Regions
- “Clinical governance committees” (my amateur translation) with a wide remit to issue recommendations in their field of expertise
- Based on diseases/health conditions, about 20, plus sub groups
- Appointed by county councils, managed by CCs and SALAR
- Purpose & role: Analyze quality problems, propose activities/changes, indicators to be included in Healthcare in Numbers etc



# Policy aspects – performance indicators

- Focus on provider (clinical) quality vs population health
- Ranking of healthcare systems/providers – pros and cons?
- Is the main purpose to judge or support improvement?
- A good indicator - how strict criteria?
- Process vs outcome indicators – even “structural” indicators
- Data quality – how strict criteria?
- Indicators as a signal with normative meaning or a truth?
- Simple or nuanced (case mix adjustment etc) presentation?
- Etc
- **What have we learnt in Sweden – with 10 -15 years of experience from performance measurement and public reporting?**

# Healthcare in Numbers (Vården i Siffror)

- Launched 2015, december – web based reporting
- SALARs (and Swedens) main collection of performance indicators
- Also costs, incidence, self reported health, patient surveys, variation in consumption/practice variation...
- County councils, hospitals, primary care centers – all units where there is meaningful data
- When possible and meaningful – data updates each quarter/month; otherwise yearly

# And the future (for SALAR) is already here - Web based reporting



## SJUKHUSENS KVALITETSDATA



Vården i siffror visar nu även indikatorer uppdelade per sjukhus. Indikatorerna går också att sortera per diagnos och område.

[Indikatorer per sjukhus](#)

## NYA SIFFROR VISAR PÅ TYDLIGT BÄTTRE VÅRD



I nya siffror från kvalitetsregistret ECT, elektrokonvulsiv behandling vid svår depression, kan man se tydliga förbättringar hos flera landsting. Läs intervju med Axel Nordenskjöld och se ny data i områdesrapporten för psykiatrisk vård.

[Områdesrapport för psykiatrisk vård](#)

If time permits and the participants are not exhausted – a live glimpse at Vården i Siffror – Health Care in Numbers is possible – but in Swedish.

## Här hittar du information från

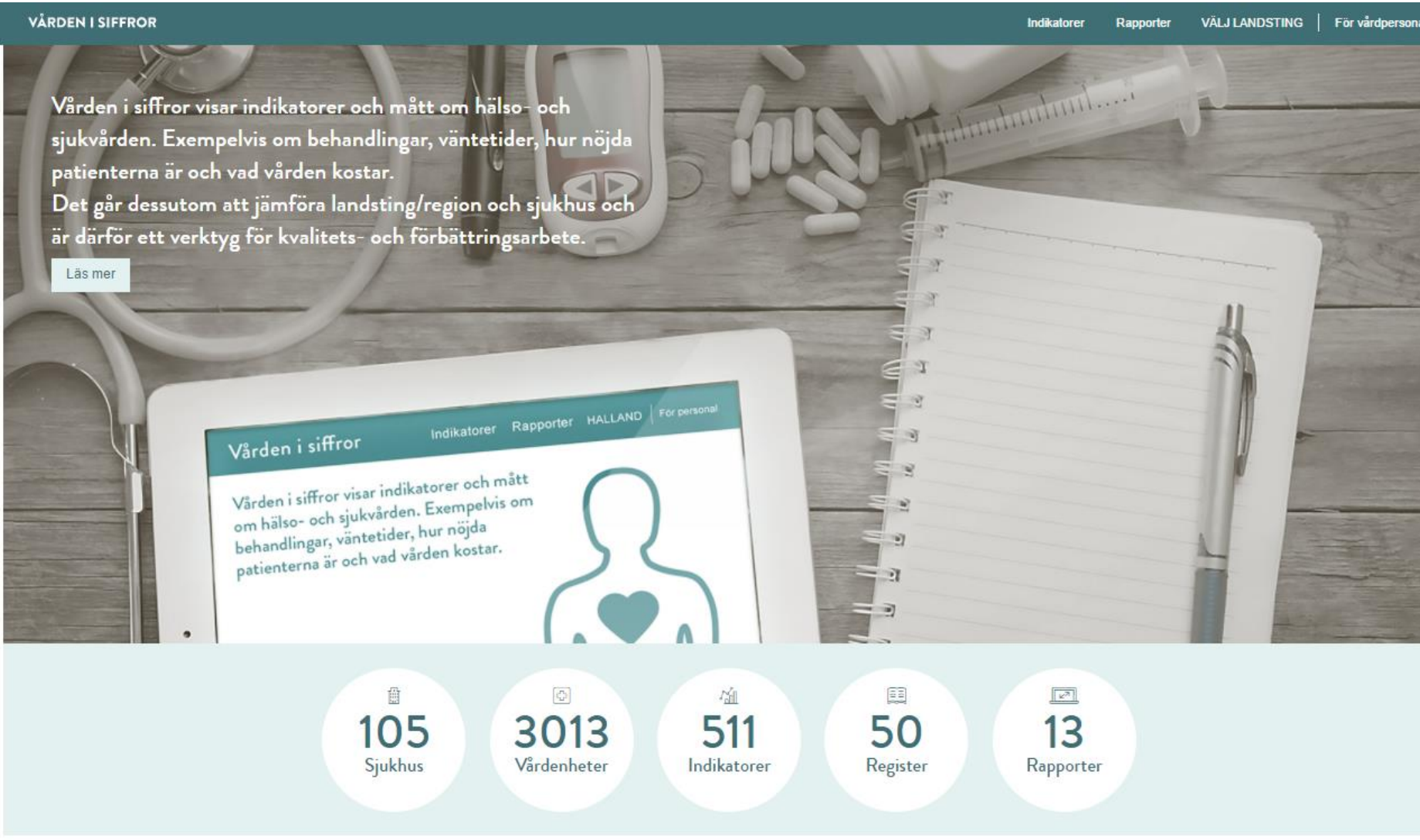


# Vardenisiffror.se (Health-care in numbers)

Open access to quality data to increase healthcare performance

2017-08-31

# [Vardenisiffror.se](http://Vardenisiffror.se) publishes national Swedish healthcare indicators regardless of source system



VÅRDEN I SIFFROR

Indikatorer | Rapporter | VÄLJ LANDSTING | För vårdpersonal

Vården i siffror visar indikatorer och mått om hälso- och sjukvården. Exempelvis om behandlingar, väntetider, hur nöjda patienterna är och vad vården kostar. Det går dessutom att jämföra landsting/region och sjukhus och är därför ett verktyg för kvalitets- och förbättringsarbete.

Läs mer

Vården i siffror

Indikatorer | Rapporter | HALLAND | För personal

Vården i siffror visar indikatorer och mått om hälso- och sjukvården. Exempelvis om behandlingar, väntetider, hur nöjda patienterna är och vad vården kostar.

105 Sjukhus	3013 Vårdenheter	511 Indikatorer	50 Register	13 Rapporter
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# All indicators searchable: keywords, diagnostics, hospital, source system, search function



VÅRDEN I SIFFROR

Indikatorer | Rapporter | VÄLJ LANDSTING | För vårdpersoner

Sjukdomstillstånd | Tematisk indelning | Sjukhus | Register | Sök

Vården i siffror visar indikatorer och mått om hälso- och sjukvården. Exempelvis om behandlingar, väntetider, hur nöjda patienterna är och vad vården kostar. Det går dessutom att jämföra landsting/region och sjukhus och är därför ett verktyg för kvalitets- och förbättringsarbete.

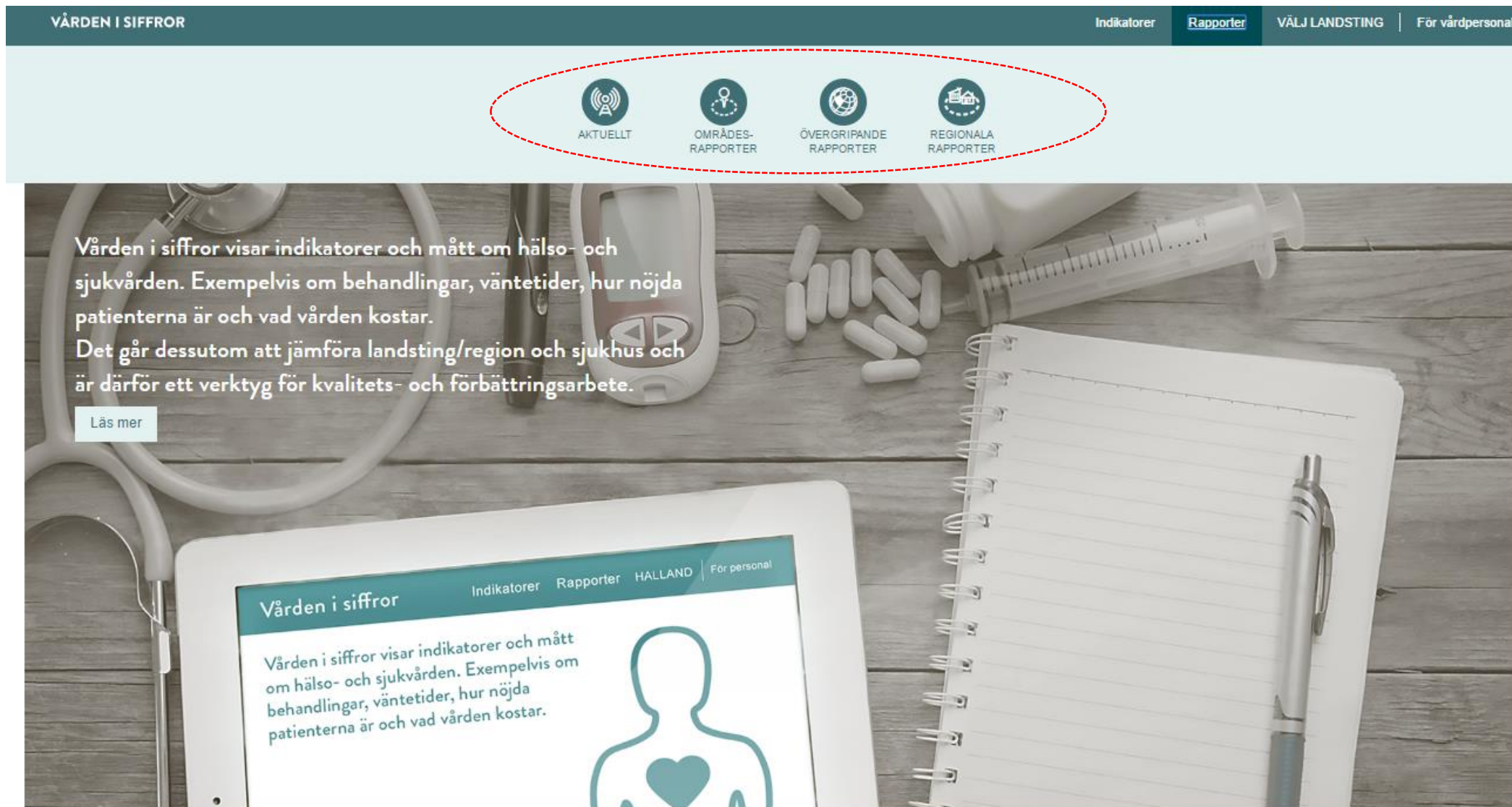
Läs mer

Vården i siffror

Indikatorer | Rapporter | HALLAND | För personal

Vården i siffror visar indikatorer och mått om hälso- och sjukvården. Exempelvis om behandlingar, väntetider, hur nöjda patienterna är och vad vården kostar.

# Digital-reports consisting of subsets of indicators based on news, diagnosis, macro-reports or regional reports



VÅRDEN I SIFFROR

Indikatorer Rapporter VÄLJ LANDSTING För vårdpersonal

AKTUELLT OMRÅDES-RAPPORTER ÖVERGRIPANDE RAPPORTER REGIONALA RAPPORTER

Vården i siffror visar indikatorer och mått om hälso- och sjukvården. Exempelvis om behandlingar, väntetider, hur nöjda patienterna är och vad vården kostar. Det går dessutom att jämföra landsting/region och sjukhus och är därför ett verktyg för kvalitets- och förbättringsarbete.

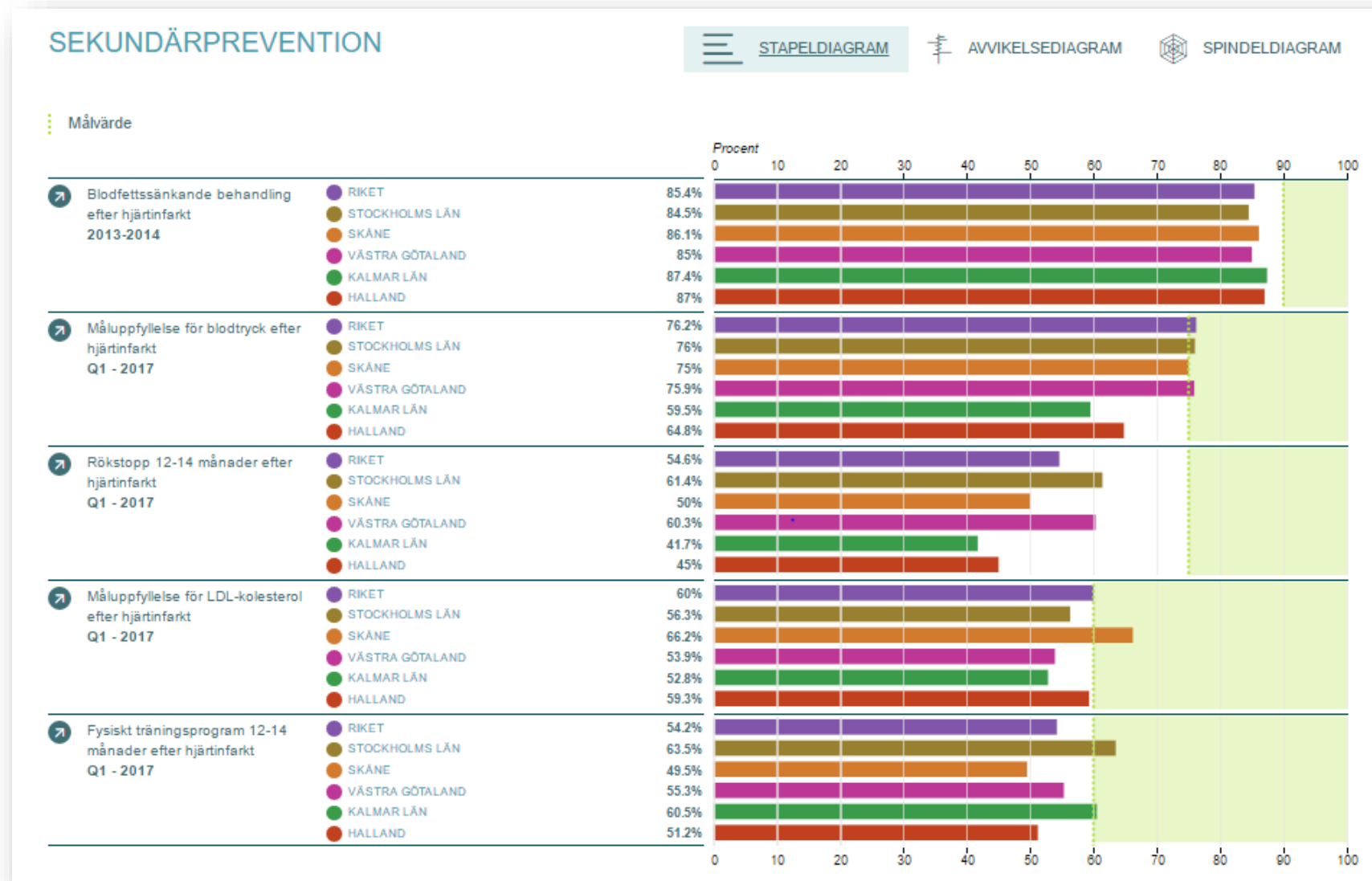
Läs mer

Vården i siffror Indikatorer Rapporter HALLAND För personal

Vården i siffror visar indikatorer och mått om hälso- och sjukvården. Exempelvis om behandlingar, väntetider, hur nöjda patienterna är och vad vården kostar.

# Why?

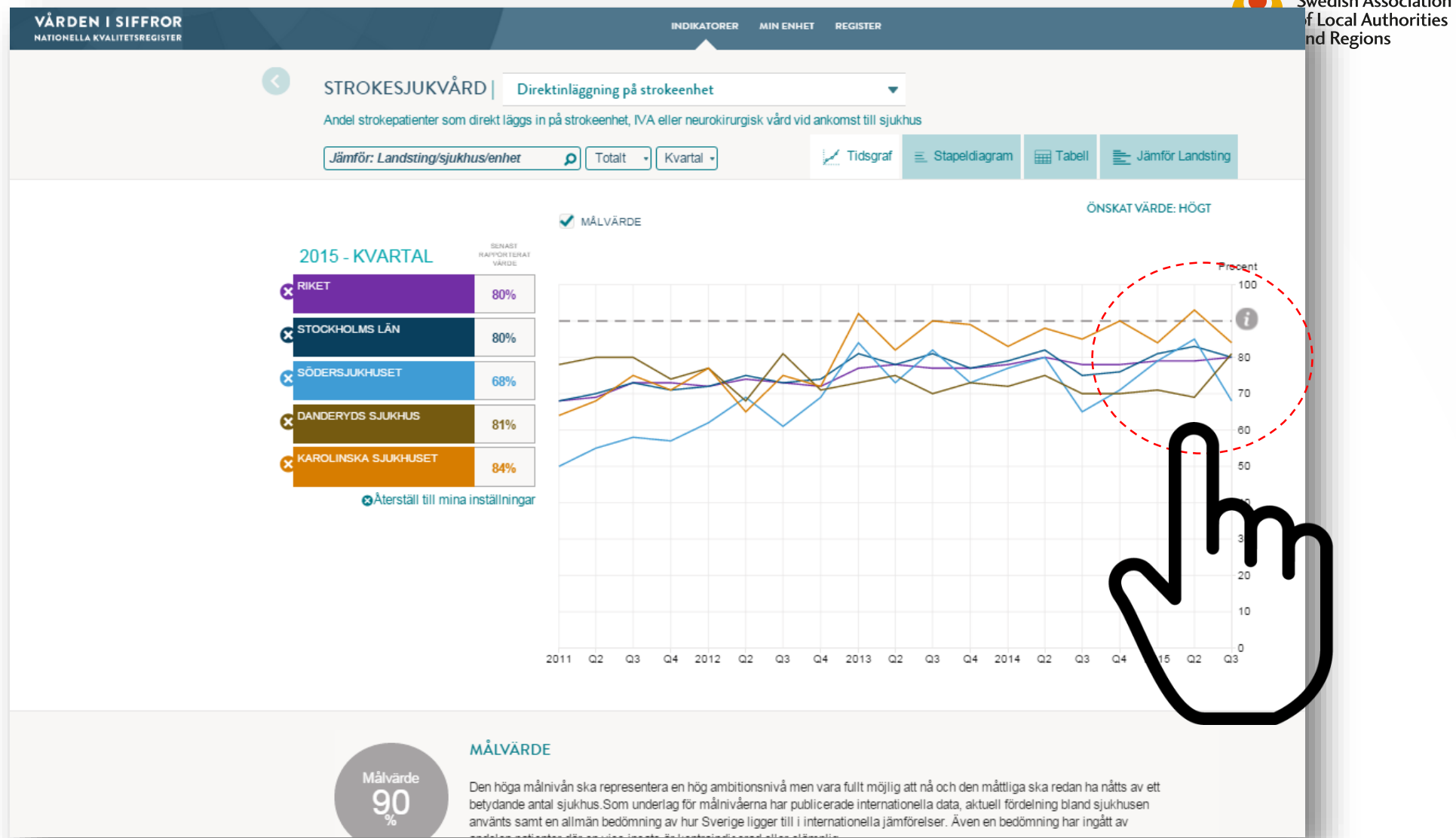
- Possible to screen several indicators and units at the same time
- Clustered in the same graphical representation
- *Also: how is my unit performing in comparison to the national median or national goals?*





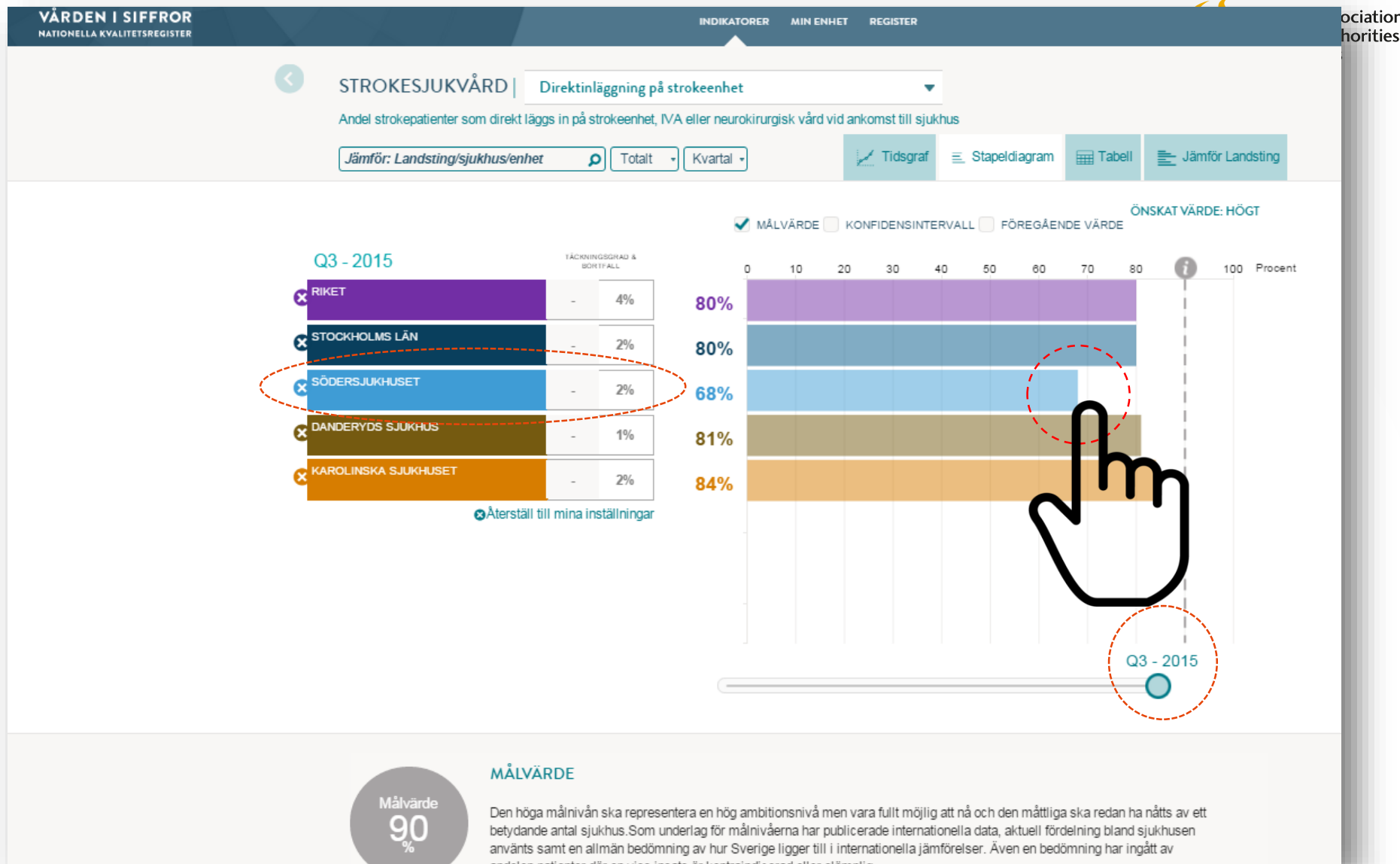
# Why?

- Easy illustration of variation between units over time
- Also displaying national goals as an additional benchmark
- *Analysis of causality and action has to be added – of course... 😊*



# Why?

- Monthly or quarterly data per unit/clinic
- Easy to find the units where data deviates (also an important area for development)
- *Why are the sub-performers data different?*
- *Bad data, different population, or difference in medical practice?*

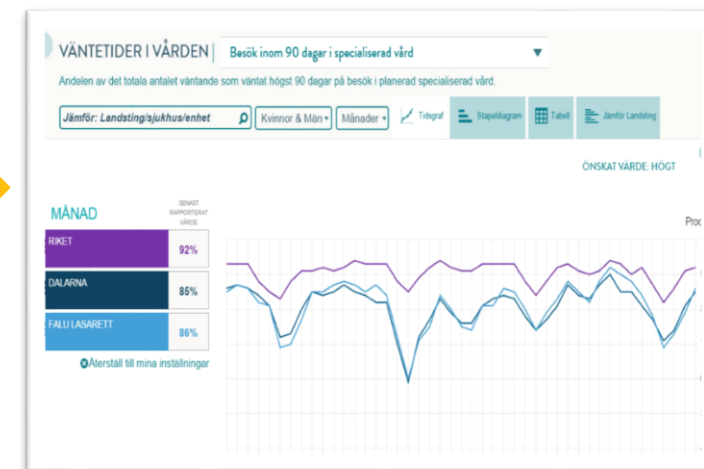


# National technical standards makes it possible to transfer vast amounts of data between systems

50 sourcesystems  
500 indicators (so far...)

National standard for healthcare indicators (API)

All presented on one graphical user interface (GUI)



# ”Vården i siffror” is just one data consuming-system Standardized data opens up for all consuming systems

Vården i siffror visar indikatorer och mått om hälso- och sjukvården. Exempelvis om behandlingar, väntetider, hur nöjda patienterna är och vad vården kostar. Det går dessutom att jämföra landsting/region och sjukhus och är därför ett verktyg för kvalitets- och förbättringsarbete.

105 Sjukhus  
3013 Vårdenheter  
511 Indikatorer  
50 Register  
13 Rapporter

Kirurgi  
Kirurgisk sjukvård

Barnsjukvård  
Resultat baserat på nationella kvalitetsregister och Vega

Cancer  
Baserat på öppna jämförelser 2014 - avser år 2013

Strokevård  
Baserat på RiksStroke samt Öppna Jämförelser

Psykatri  
Psykiatrisk och Rättspsykiatrisk sjukvård

Rörelseorganans sjukdomar  
Ortopedi och reumatologi

IVA  
Vård på intensivvårdsavdelning

Ögonsjukvård  
Baseras på Nationella kataraktregistret och öppna jämförelser

Diabetes hos vuxna  
Infektion

# What do we know now?

**How familiar are you with Swedish eHealth (= what we do and what we plan)?**

1 = Novis (nothing at all); ...; 5 = Expert (know everything)

**How familiar are we with Finnish eHealth (= what they do and what they plan)?**

1 = Novis (nothing at all); ...; 5 = Expert (know everything)

# Next step together

- Have the day and the content/subjects been what you expected?
- Are there areas where we can interact continuously?
- How could we arrange for continued experience exchange?