



# **The Swedish experiences on innovating and implementing eHealth**

– opportunities and barriers!

**Daniel Forslund**

Chief Strategy Officer

**VINNOVA** – The Swedish Governmental Agency for Innovation Systems

# VINNOVA in brief

- Swedish Government Agency responding to the Ministry of Enterprise
- About 200 people work at VINNOVA's offices in Stockholm and Brussels
- Our Director General is Charlotte Brogren



# VINNOVA's three roles:

**Funding  
Research & Innovation**



**National  
EU Contact  
Agency**

**Expert  
Agency**

Strengthening the  
innovation capacity  
of selected target  
groups

VINNOVA – strengthening  
Sweden's innovativeness,  
aiding sustainable growth  
and benefiting society!

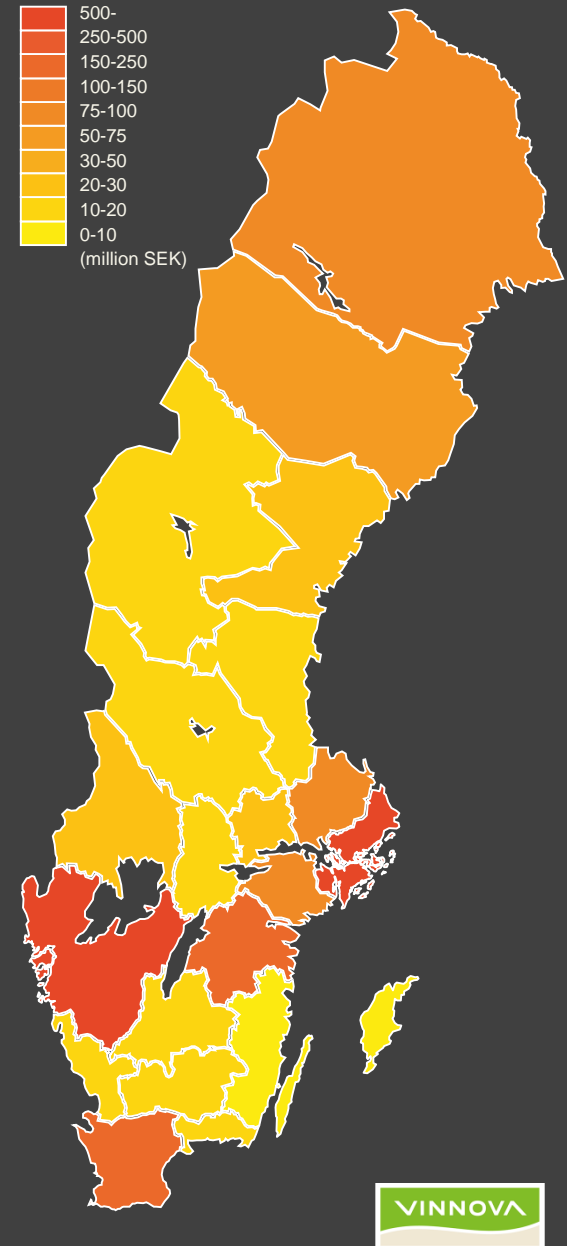
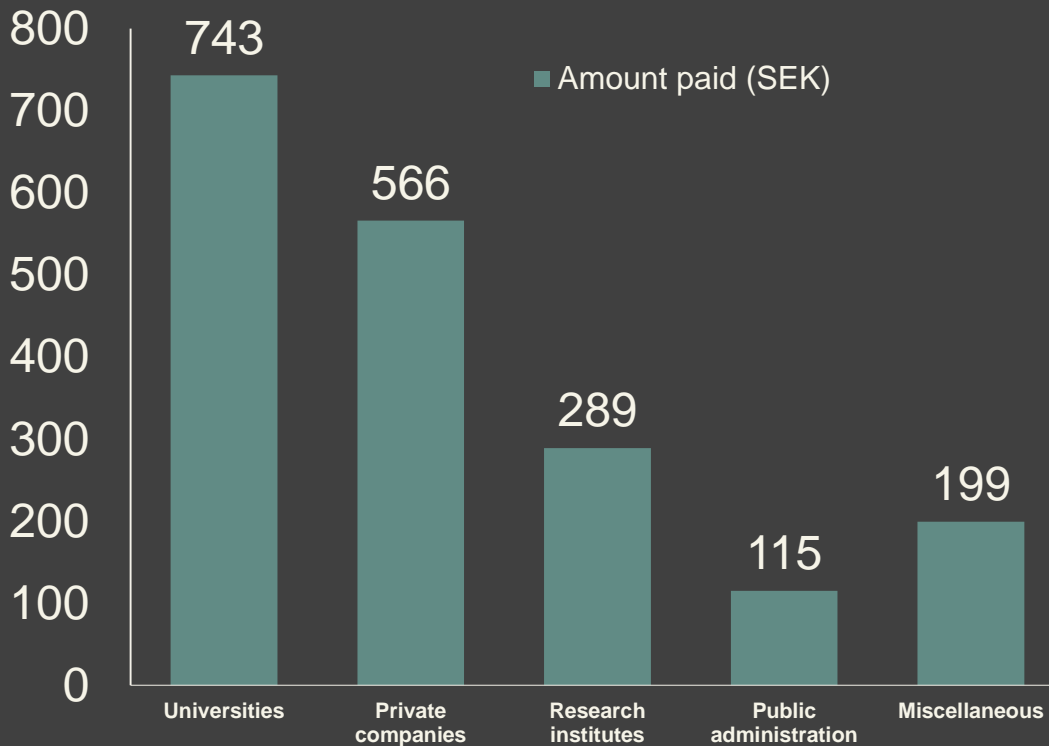
Knowledge  
development in  
strategically  
important areas

National mobilization by  
connecting stakeholders in  
different industries and areas  
of knowledge

# 2 204

million SEK invested by VINNOVA in  
Swedish R&I in 2012

## DISTRIBUTION BY SECTOR



**Connect**



**Stimulate**

**Catalyze**

# Swedish research and innovation in figures

**118**



Total Swedish R&D<sup>1</sup>

**34,0**



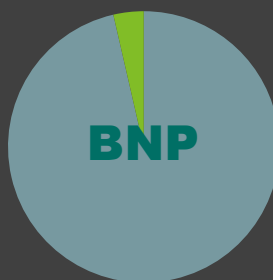
Total government R&D<sup>2</sup>

**2,2**



VINNOVA's grants to R&I<sup>3</sup>

Equivalent to **3.6%** of Sweden's GDP for 2009 invested in R&D.<sup>3</sup>



## Innovation Union Scoreboard 2012

1. **Sweden**
2. Denmark
3. Germany
4. Finland
5. Belgium
6. United Kingdom
7. Netherlands
8. Austria
9. Luxemburg
10. Ireland

## World Bank Economy Index 2012

1. **Sweden**
2. Finland
3. Denmark
4. Netherlands
5. Norway
6. New Zealand
7. Canada
8. Germany
9. Australia
10. Switzerland

**3,4%**

of GDP equivalent to annual R&D investment in Sweden

Sources: <sup>1</sup>SCB (forecast for 2009) <sup>2</sup>VINNOVA 2010 <sup>3</sup>SCB (forecast for 2009) <sup>4</sup>Innovation Union Scoreboard 2010, The Global Competitiveness Report 2010-2011

# eHealth trends and demands that needs to be addressed:



Jawbone UP – supporting my personal health!

- Smart mobile tools for making informed decisions!
- Mobility!
- Quantified Self movement!
- Security and integrity!
- BIG Data Processing!
- Usability!

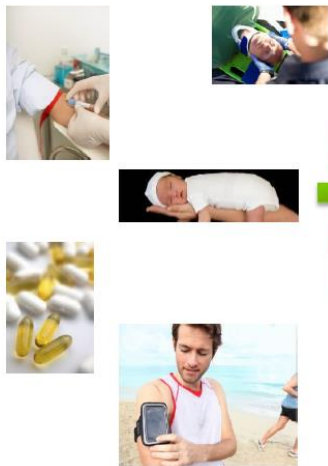


# National Personal Health Account

## HälsaFörMig-

ett verktyg som ska underlätta för individen

Hälsa- och vårdinformation



Administration och  
behörighetsstyrning



Livslång lagring  
av information



3:e partsapplikationer  
anslutna till plattformen

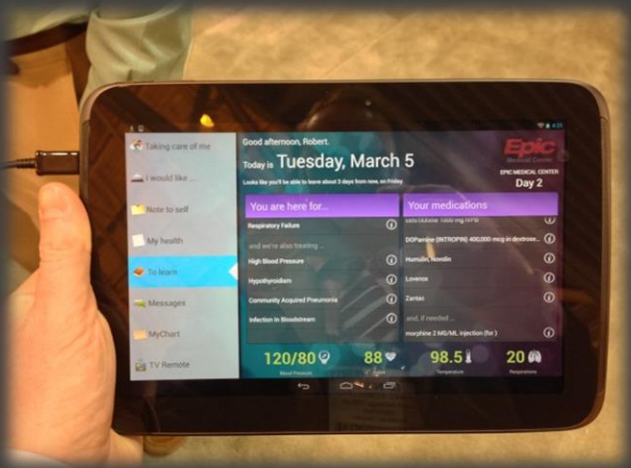
HälsaFörMig 

- National technical platform under procurement.
- Launch planned for Spring 2014.
- Offered for free to all Swedish citizens.
- Individually owned data.
- Measures to support applications.



**The political will, the strategies, policies and legislation in place...**





...the goal is clear...



A problem has been detected and windows has been shut down to prevent damage to your computer.

DRIVER\_IRQL\_NOT\_LESS\_OR\_EQUAL

If this is the first time you've seen this Stop error screen, restart your computer. If this screen appears again, follow these steps:

check to make sure any new hardware or software is properly installed. If this is a new installation, ask your hardware or software manufacturer for any windows updates you might need.

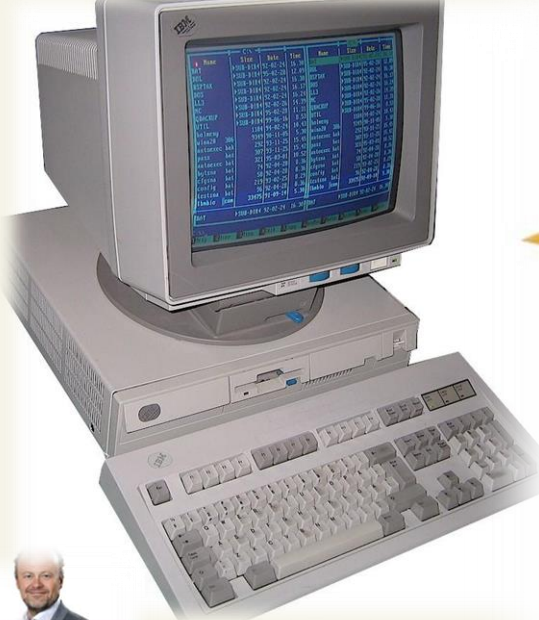
If problems continue, disable or remove any newly installed hardware or software. Disable BIOS memory options such as caching or shadowing. If you need to use Safe Mode to remove or disable components, restart your computer, press F8 to select Advanced Startup Options, and then select Safe Mode.

Technical information:

\*\*\* STOP: 0x000000d1 (0x00000000, 0x00000002, 0x00000000, 0xF86B5A89)

\*\*\* gv3.sys - Address F86B5A89 base at F86B5000, DateStamp 3dd991eb

Beginning dump of physical memory  
Physical memory dump complete.  
Contact your system administrator or technical support group for further assistance.



**Medicin**  
Dagens  
Sätt patienten och kvalitén i fokus  
istället för produktionen



- Nyheter Vetenskap Jobb Debatt Seminarier DM-TV Blogg Utbildning Kontakt Annonsera
- Arbetsrätt Ledarskap Löner Relationer Utbildning-karriär Sok jobb

Publicerad 2013-04-08 Jobb

## Stressande IT-system anmält

Sjuksköterskor och läkare blir sjuka av Region Skånes nya IT-system Profdoc Medical Office, PMO, enligt en anmälan.

Kommentera » Skriv ut » Skicka »

Ämnen: IT, Region Skåne

Ett trettioital vårdcentraler i Region Skåne har infört det nya journalsystemet Profdoc Medical Office, PMO, som enligt

**ComputerSweden**



Pia Piopp:  
På uppdrag i rikets  
tjänst

- CS JOBB CS LIFE CS PODCAST TEKNIK OPINION EVENT ANNONSERA MER FRÅN CS

Publicerad 2013-03-07 10:45

## It-incidenter i vården fortsätter öka

Av Emanuel Videla

**CS GRANSKAR** It-strulet inom vården ställer till allt mer problem. Det visar en sammanställning över lex Maria-anmälningar som CS tagit del av.



...as are the problems!



INSIDE THIS WEEK: A 14-PAGE SPECIAL REPORT ON AGEING

The  
Economist

JUNE 27TH-JULY 3RD 2009

Economist.com

Iran's agony  
The mystery of Mrs Merkel  
Asia's consumers to the rescue?  
The Greeks and those marbles  
Evolution and depression

Reforming health care

**This is going to hurt**



**Does  
healthcare  
reform have to  
be painful...?!**

VINNOVA

# Challenges with Public Sector Innovation:

**Huge amounts of money is invested in studies and projects...**

**...but far to little is invested in the deployment and use!**

**...we define the solutions instead of defining the needs!**



**We are excellent in coming up with new innovative ideas, but are we equally good in fazing out the old solutions to make room for innovations...?**





**The largest innovations  
doesn't have to be  
gigantic...**





**...but often the largest innovations are the smallest things in our daily lives!**



# VINNOVA's role when supporting Public Organizations:



- Not only a funding agency for innovations projects...
- ...but a long-term partner for change and improvement of public services!
- ...offer knowledge and methodologies for complex innovation processes!



Stimulate **innovation projects** combined with efforts to strengthen the **capacity** for uptake and use of innovative solutions by **eliminating the barriers** for innovation!

**VINNOVA's vision for Public Sector Innovation:**

# VINNOVAs support measures to boost Public Sector Innovation

1. Increase the knowledge on how innovation can solve societal challenges!
2. Build support structures to capture, test and verify the value and benefits with innovation!
3. Increase the capacity for a faster deployment and use of innovations within public organizations!



# Increased knowledge on innovation



- **Simplify for smaller projects**
  - a specific Call launched for municipalities, regions and Governmental Agencies!
  - move from ideas and visions to concrete projects and implementation!
- **Innovation Challenge Prizes**
  - support for organizing competitions for identifying the most innovative solutions to societal challenges!
- **Open Data**
  - stimulate innovative services by supporting public organizations to open up their data sources!



# Build support structures for innovation

- **Innovations Offices**

- creating a structure within health and social care to capture the ideas from health professionals, researchers and companies!

- **Test Beds**

- long-term structures for testing, verification and demonstration of the functionality and value of innovative solutions!
- 18 test beds established in health and elderly care.

## Preliminary results from six VINNOVA funded Innovation Offices in healthcare:

- Approximately 1 300 ideas from health professionals resulted in 230 projects.
- 450 companies made contact with health providers
- 43 new products and 1 service implemented
- 22 new companies established



# Increased innovation capacity



- **Change Management**
  - pilot ongoing for better knowledge among local and regional politicians and clinical decision makers on complex innovation processes!
- **Reimbursement systems**
  - new Call opens in December to stimulate the development and deployment of incentive models that promotes a faster use of innovative solutions!
- **Innovation Procurement**
  - use the huge resources in Public Procurement for demanding innovations based on the needs from citizens and professionals.

# VINNOVA supports innovation projects in all phases of maturity:



## **Sweden's Innovation Agency**



**We strengthen Sweden's innovativeness, aiding  
sustainable growth and benefiting society**

[www.VINNOVA.se](http://www.VINNOVA.se)