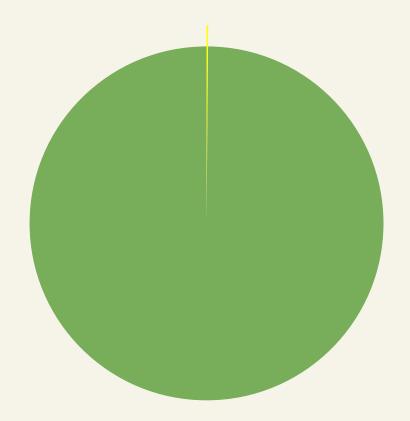
WANT MAKO AN. S



Innovations and ICT

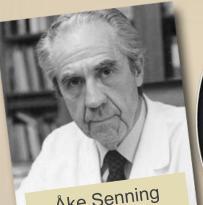
Charlotte Brogren
Director General
VINNOVA

Sweden: 0,14% of the world's population



20 cities in the world have a larger population than Sweden





Åke Senning Heart & lung machine



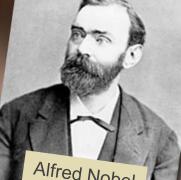
Jonas Wenström
Three phase electricity



Baltzar von Platen Refrigerator



Gustaf Dalén AGA light houses



Alfred Nobel Dynamite



Axel Wennergren
Electrolux



Ruben Rausing Liquid food packaging



Gustaf DeLaval Separator



L M Ericsson Telephone (Ericsson AB)



J P Johansson Adjustable Wrench



Rune Elmquist Pacemaker



Sven Wingquist Ball bearings (SKF)



Erik Bratt Saab35 "Draken" FighterJet



Global Innovation Index 2013

Global **Competitiveness Union** Report 2012-2013

Innovation Scoreboard 2013

1. Switzerland

1. Switzerland

1. SWEDEN

2. SWEDEN

2. Singapore

2. Germany

3. UK

3. Finland

3. Denmark

4. Netherlands

4. SWEDEN

4. Finland

5. USA

5. Netherlands

5. Netherlands





Does Sweden need an innovation policy?





Opposite to innovation?







Imitate and compete with discounts

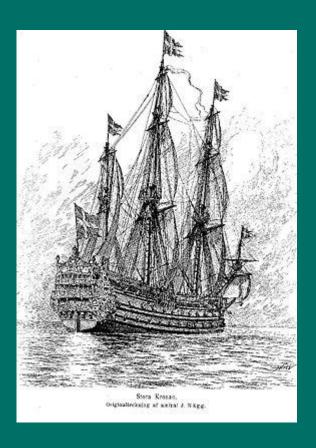


Historical perspective



1832

300 000 oaks were planted to ensure future availability of material for the Swedish navy





1975



The Commander in Cheif had to say no to delivery ..

....as there were no longer a need for oaks building ships!



1987

- Berlin wall
- CCCP in war in Afghanistan
- IBM was a hardware company
- Telephone was a place
- Big Brother was a person in a book
- Hilton was a Hotel



2002 - these companies didn't exist

facebook













Of the world's 500 largest enterprises more than 30% is gone in 10 years

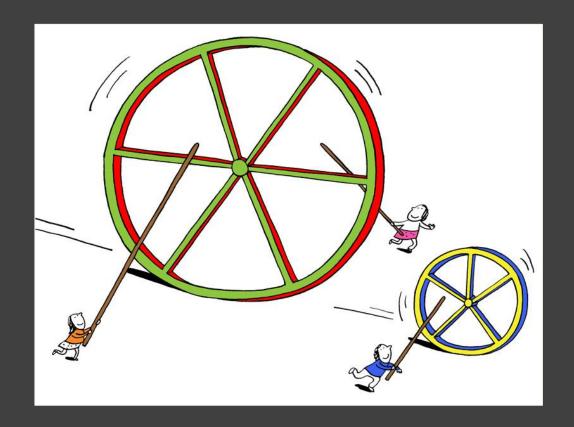


Lack of renewal, Lack of innovation



Compete with smarter products and services, adding value





Does Sweden need an innovation policy?







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

Sweden's Innovation Agency



Grand challenges

"European research must focus on the **Grand Challenges of** our time moving beyond current rigid thematic approaches. **Responses to Grand** Challenges should take the form of broad areas of issueoriented research in relevant fields."

The Lund declaration, 2009



opportunities

To address these challenges

You need to

- Bring world class research from different disciplines together
- Combine skills from many sectors
- Apply known technologies into new applications
- Utilize the best expertise from all over the world



VINNOVA's program: Challenge-driven innovation

From technology and sectors to social challenges











Sustainable attractive cities



Future health care



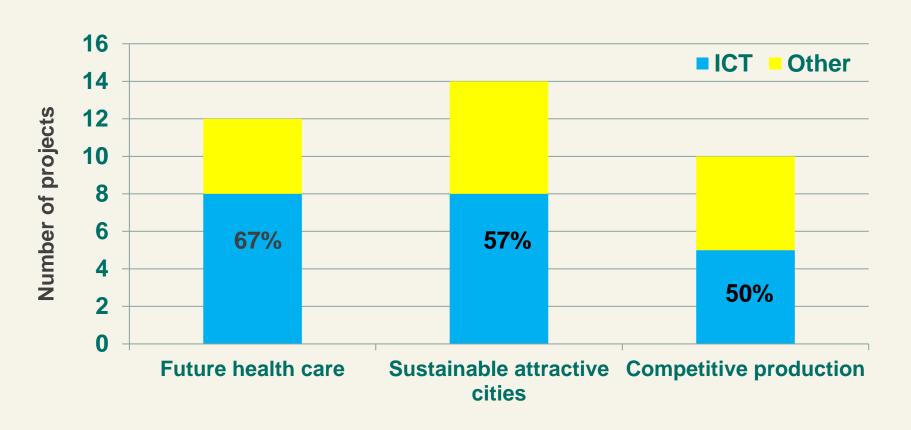
Information Society 3.0



Competitive production



Challenge-driven Innovation results: ICT is the solution enabler

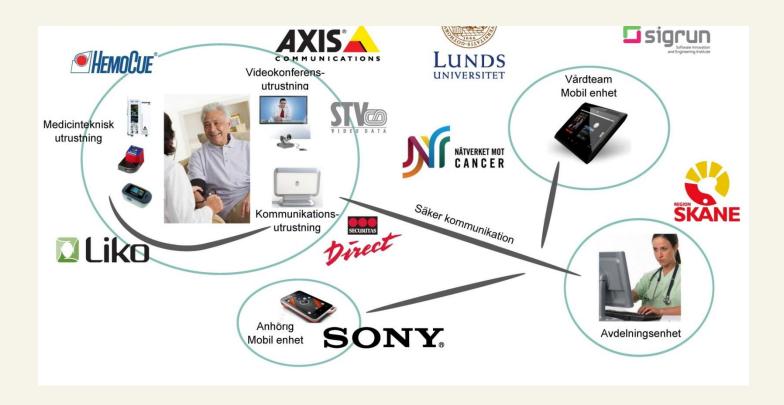




Some examples



ICT enabling advanced home care





ICT enabling "patient" centric care and allowing new innovative solutions from SMEs?



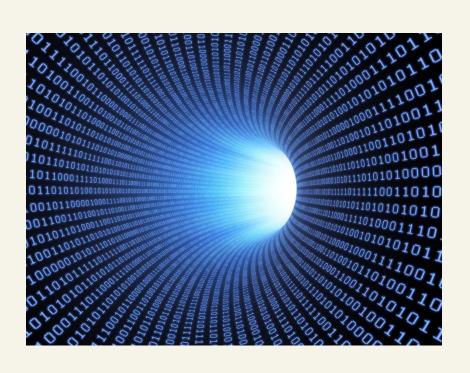




My Care Pathways – providing a new interactive approach in healthcare!



ICT enabling advanced manufacturing







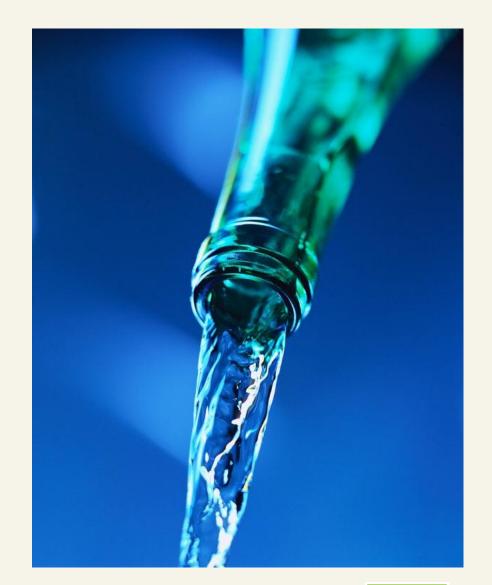
ICT enables operator of the Future







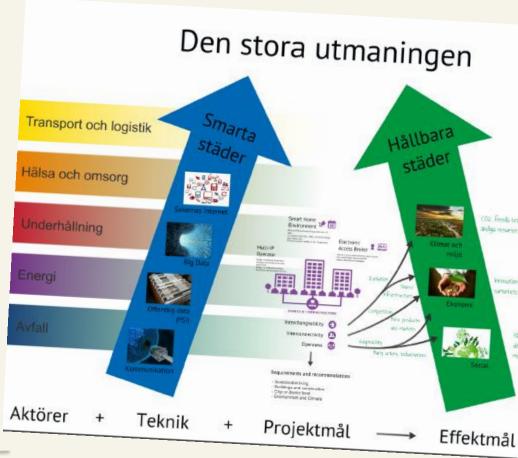
ICT enables online sensor system for resource-efficient water management





ICT Enables sustainable cities of the future







Stockholm Royal Seaport Innovation



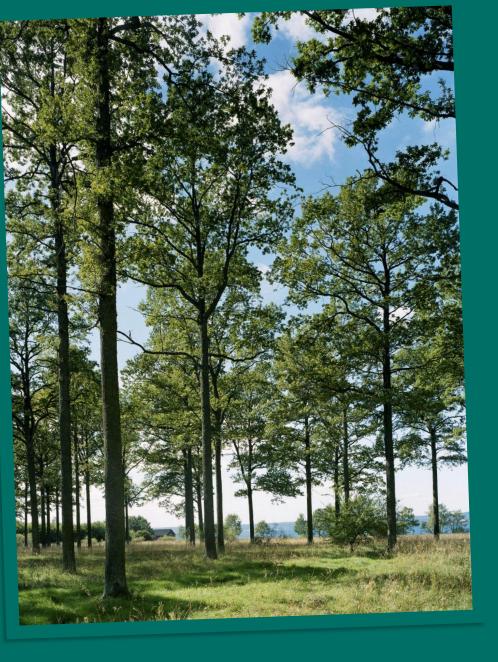
- An arena for innovation, learning and collaboration
- Focus on sustainable urban development
- Solutions through R&D projects bringing together companies, academia and the City of Stockholm





..but what about the oaks?





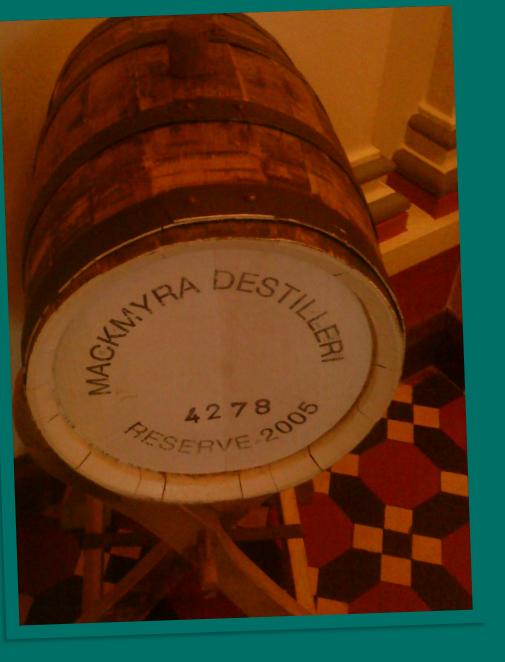
Owned by "Statens Fastighetsverk"



Used to renovate the Wasa ship







Whiskey barrels



Innovation

is about controlling your destiny!



Sweden's innovation agency



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

www.VINNOVA.se