Institutet för FRAMTIDSSTUDIER
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Technologies for autonomous ageing

– gains, risks, needs, and obstacles.

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Deputy Director
Number of deaths at various ages, Sweden 1751-2110

1751

Källa: Human Mortality Database. University of California, Berkeley (USA), and Max Planck Institute for Demographic Research (Germany), SCB.
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Population composition

Compressed illness

Lancet

Women severe illness
Women moderate illness
Women slight illness
Women full health

Men severe illness
Men moderate illness
Men slight illness
Men full health
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Result

By 2050 cost are expected to:
Elederly care will increase by 70%
Health care increase by 30%
Increased ambition/technology level 80%
Crossroads

Financing models,
Cost cuts

Or

Improving efficiency?
Staff shortage in elderly care the year 2030 per region

- **Country approx:** 65,000
- **Worst regions:** Gotland, Norrbotten, Dalarna and Västerbotten

[Graph showing staff shortage as a percentage of working population for each region.]
Is technology important?

You can not predict the future since you can not predict all future technology. If you predict future technology, then its not the technology of the future any more.

Henri Pointcaré
Technology is almost everything

Technology is the result of the development of a society, as well as the catalyst for its further development

Benjamin R Barber
What new technologies are emerging?

Internet of things
Self measurement – quantify self movement
Decision support systems
Daily life support systems – memory – lifestyle
Robotics
IBM Watson Cognitive systems

It uses programmatic computing plus the combination of three additional capabilities that make Watson truly unique:

- natural language processing,
- hypothesis generation and evaluation, and
- dynamic learning.

- The new jeopardy grandmaster 2010
Bestic; eating assistive device
Gains; when health care turns into IT

Inexpensive care – automated care, co-production
Secure care – monitoring and warnings
Equal care -not possible without decision support systems
Important for mental as well as physical well being
Risks

Risks are more linked to old technology, as are costs
Social contacts in every day life
The aids makes our life too comfortable, lures us in to a too lazy lifestyle
New technology always poses a risk, when not matured
Obstacles -the great AND-problem on a system level

Laws
AND
IT-maturity of the Government (Public sector) Rank 16 vs Private 2
AND
Organization, processes
AND
Business models
AND
Staff, anxiety, conservatism
But NOT
IT-technology
Patients, -Yet!
Thank you!