

Swedish SWOT

In focus

“The Swedish innovation system around the adoption of ICT in the health sector, experience economy etc”

Method

- § **Carried out via a questionnaire**
- § **Sent out to appr. 20 individuals**
- § **Only 10 answers**
- § **5 from FOI**
- § **5 from industry and health sector**
- § **+ a few interviews**

General findings

<p><i>Strengths</i></p> <ul style="list-style-type: none">- Informal system; no hierarchies- Wide spread of ICT usage- Long tradition of usage of IKT in many sectors of society- Knowledge of high level system development- Infrastructure	<p><i>Weaknesses</i></p> <ul style="list-style-type: none">-Decreasing interest for science and technology education- Low salaries in R&D- Financing of early phases- Unclear division of responsibility among agencies-
<p><i>Opportunities</i></p> <ul style="list-style-type: none">- Use infrastructure- Pragmatic R&D climate- Early adopters	<p><i>Threats</i></p> <ul style="list-style-type: none">-Small home market- Financing

Security

<p><i>Strengths</i></p> <ul style="list-style-type: none">- Established big companies (Ericsson, Securitas, Defence Industry,...)- Small population, large country -> surveillance- Many players; co-operation natural	<p><i>Weaknesses</i></p> <ul style="list-style-type: none">- No experienced real threat- Sweden is underrepresented in EU financed R&D- Small players
<p><i>Opportunities</i></p> <ul style="list-style-type: none">- EU financing- “24h service sector”- Networked based defence- Niche as tech lead for SMC, for which “big solutions” are not suitable	<p><i>Threats</i></p> <ul style="list-style-type: none">- Other countries invest in security Sweden less interesting- “Security as a need rather than an opportunity”- International competition- Small home market- US dictates conditions

Health

<p><i>Strengths</i></p> <ul style="list-style-type: none"> - Niches in selected tech areas (sensors, bio-tech, IT security, ...) - Some excellent research environments - Even elderly are early adopters - Climate of innovation - Huge interest in ICT-health care 	<p><i>Weaknesses</i></p> <ul style="list-style-type: none"> - Stovepipe like education - Conservatism; proof of concept - Weak demand; “no early buyers”; to many buyers - Weak integration with today’s IT-systems - “pedagogical skills”; need to describe the utility
<p><i>Opportunities</i></p> <ul style="list-style-type: none"> - Everybody agree resources limited -> ICT could be part of solution - Put the end-user in focus - Create a single Nordic market - Nordic demonstrators - “Nordic view” of health care - Strong confederation in the area 	<p><i>Threats</i></p> <ul style="list-style-type: none"> - No solution to the “division of responsibility”-problem - “Cultural divide” tech-health - Other run faster – defines standards - Think we are best - Security and integrity; must be solved - Need to find good business models - Development of law system

Production

<p><i>Strengths</i></p> <ul style="list-style-type: none"> - Close co-operation industry-academia - strong R&D base in production simulation - Particularly strong ICT knowledge in telecom and automobile industry - 	<p><i>Weaknesses</i></p> <ul style="list-style-type: none"> - Difficulties in attracting students in relevant areas - Parts of producing industry weak ICT knowledge - Usage of ICT in late production phases; not in early conceptual phases - Weak support to SME's adoption of ICT
<p><i>Opportunities</i></p> <ul style="list-style-type: none"> - Some increased interest in production research from financing inst. can be observed - Smart ICT application gives us possibility to still have production in Sweden - 	<p><i>Threats</i></p> <ul style="list-style-type: none"> -Risk that SME's are forced to close down; can't keep up with the R&D cycle - No commercialisation can badly influence the research area.