Myndigheten för samhällsskydd och beredskap

The Swedish Civil Contingencies Agency

R&D initiatives

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MSB – Swedish Civil Contingencies Agency

The task of the MSB is to enhance and support societal capacities for preparedness for and prevention of emergencies and crises. When one does occur, we support the stakeholders involved by taking the right measures to control the situation.

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Sweden

Big country

Few people

Lot's of ICT

Swedish ICT Inventions

AXE: An automatic telephone switchboard, a cornerstone in Ericsson's growth

Color graphics: The basics of the Graphics Processing Unit, or GPU, established by Swedish inventor Håkan Lans

NMT and GSM: Two parts of the basic technology behind cell phones are both Swedish.

Kazaa, Skype and Joost: The file-sharing program Kazaa and the internet calling service Skype revolutionized their respective markets.

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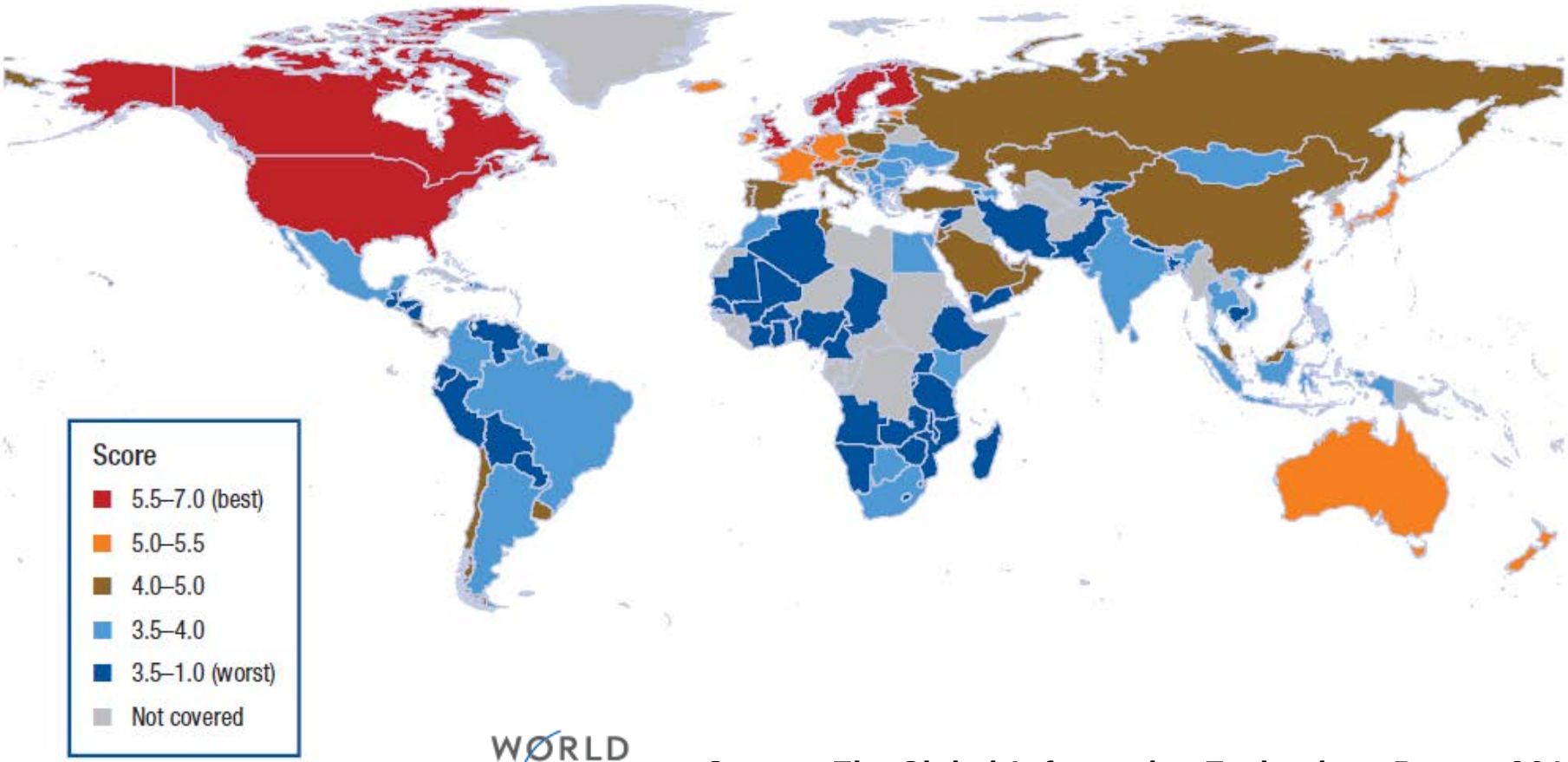
Network Readiness Index



WORLD ECONOMIC FORUM

Source: The Global Information Technology Report 2012

World Economic Forum

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Countries ranked for cyber-readiness

Country	Rating
(None)	★★★★★
Finland, Israel, Sweden	★★★★½
Denmark, Estonia, France, Germany, Netherlands, Spain, UK, USA	★★★★
Australia, Austria, Canada, Japan	★★★½
China, Italy, Poland, Russia	★★★
Brazil, India, Romania	★★½
Mexico	★★
(None)	★

SOURCE: MCAFEE

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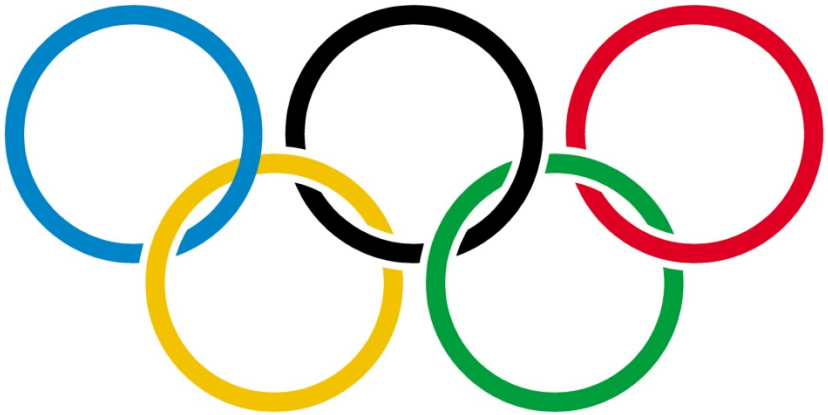

Rank by Gold	Country	Gold	Silver	Bronze	Total
1	United States of America	46	29	29	104
2	People's Republic of China	38	27	23	88
3	Great Britain	29	17	19	65
4	Russian Federation	24	26	32	82
5	Republic of Korea	13	8	7	28
6	Germany	11	19	14	44
7	France	11	11	12	34
8	Italy	8	9	11	28
9	Hungary	8	4	5	17
10	Australia	7	16	12	35
11	Japan	7	14	17	38
12	Kazakhstan	7	1	5	13
13	Netherlands	6	6	8	20
14	Ukraine	6	5	9	20
15	New Zealand	6	2	5	13
16	Cuba	5	3	6	14
17	Islamic Republic of Iran	4	5	3	12
18	Jamaica	4	4	4	12
19	Czech Republic	4	3	3	10
20	Democratic People's Republic of Korea	4	0	2	6
21	Spain	3	10	4	17
22	Brazil	3	5	9	17
23	South Africa	3	2	1	6
24	Ethiopia	3	1	3	7
25	Croatia	3	1	2	6
26	Belarus	2	5	5	12
27	Romania	2	5	2	9
28	Kenya	2	4	5	11
29	Denmark	2	4	3	9
30	Azerbaijan	2	2	6	10
30	Poland	2	2	6	10
32	Turkey	2	2	1	5
33	Switzerland	2	2	0	4
34	Lithuania	2	1	2	5
35	Norway	2	1	1	4
36	Canada	1	5	12	18
37	Sweden	1	4	3	8
38	Colombia	1	3	4	8

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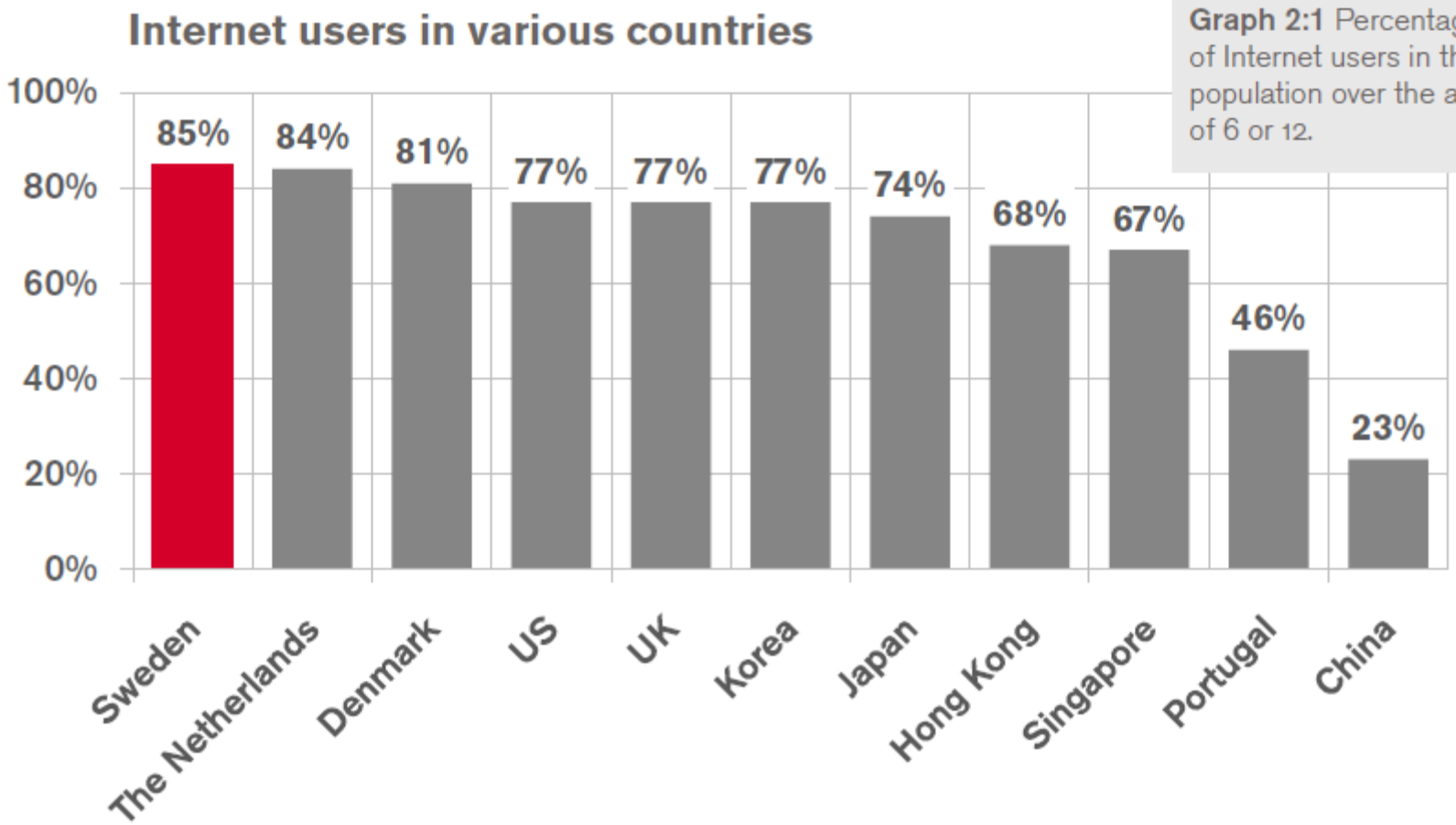

Graph 2:1 Percentage of Internet users in the population over the ages of 6 or 12.

1 Statistical sources: APIRA (2010). Internet in Asia Pacific Region. A comparative Report 2009; 2010 USC Anneberg Digital Future Study; World Internet Project. International Report 2010; Pew Internet Project 2010; EU Barometer statistics 2010.

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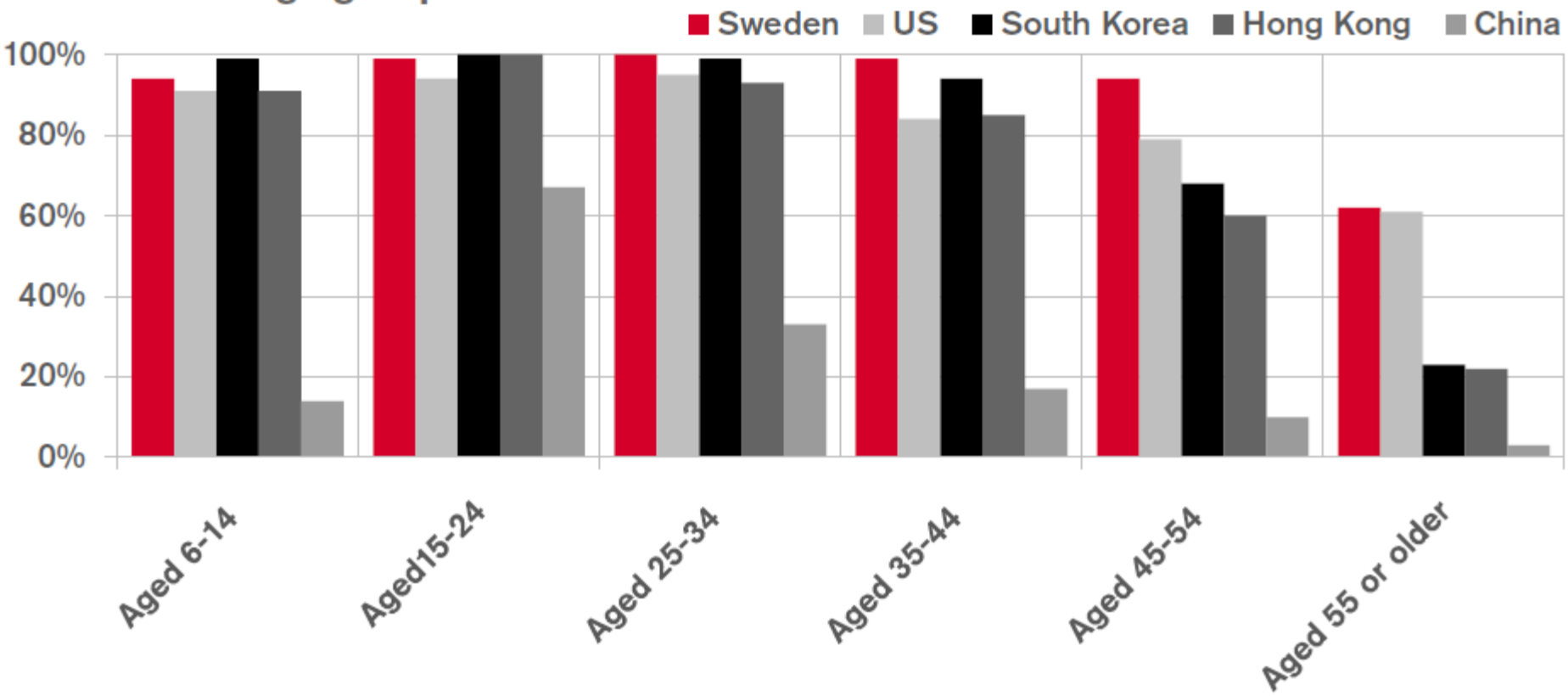
Internet use among various age groups



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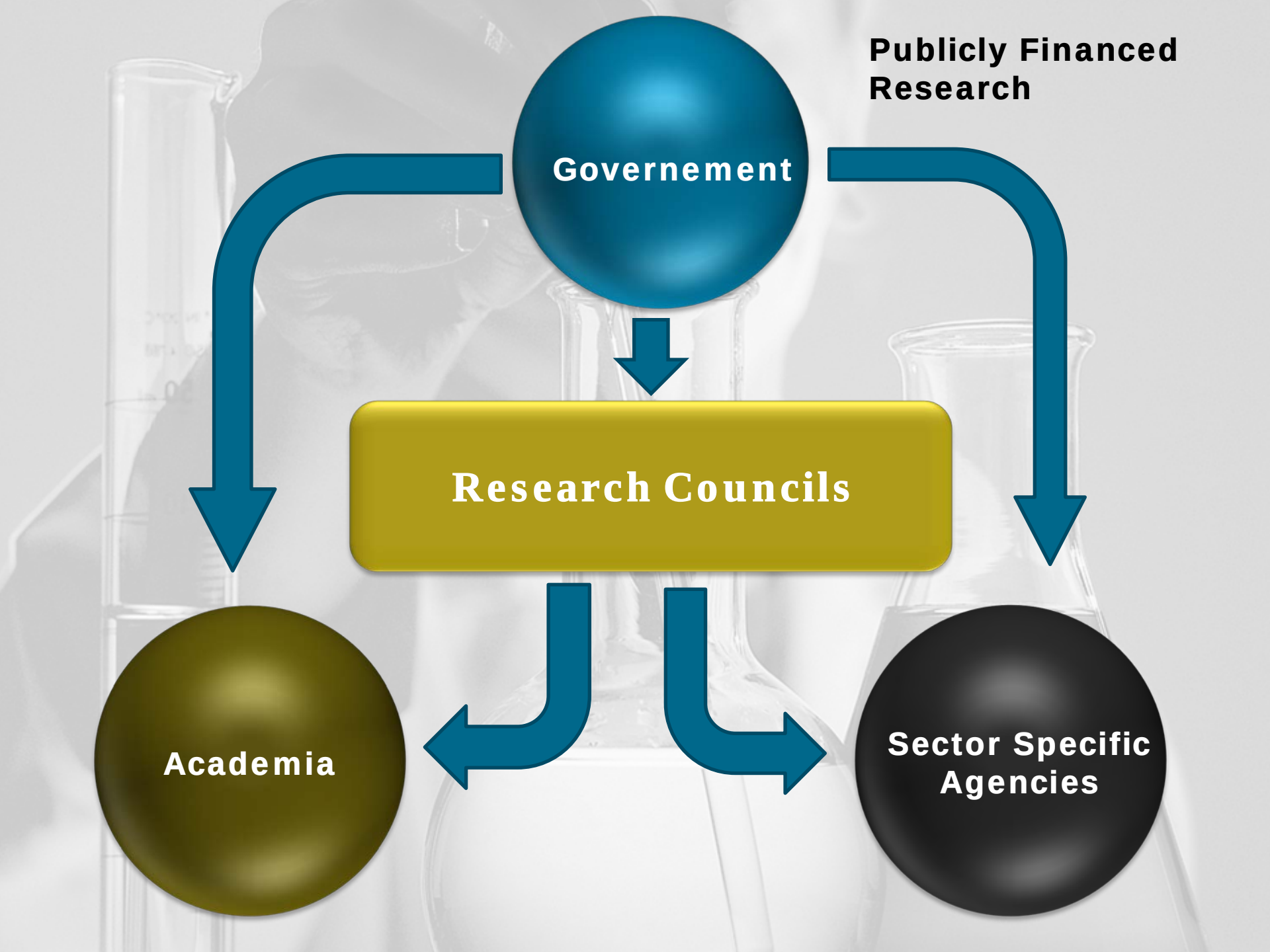
Swedish model of R&D financing

Near 4% of BNP into R&D (amongst highest in the world)

Approximately 75% is carried out in the private sector

Very little public research is done outside academia


Publicly Financed Research
Governement
Research Councils
Academia
Sector Specific Agencies

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Research Councils

Vetenskapsrådet

VINNOVA

Swedish Council for Working Life and Social Research

formas

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MSB – Information Assurance Section -current activities

National Action Plan for Information Security

National Cyber Security Exercise (November)

Thematic call in Information Security

Baseline Measurement – Information Security Awareness

CERT-SE

Security in ICS

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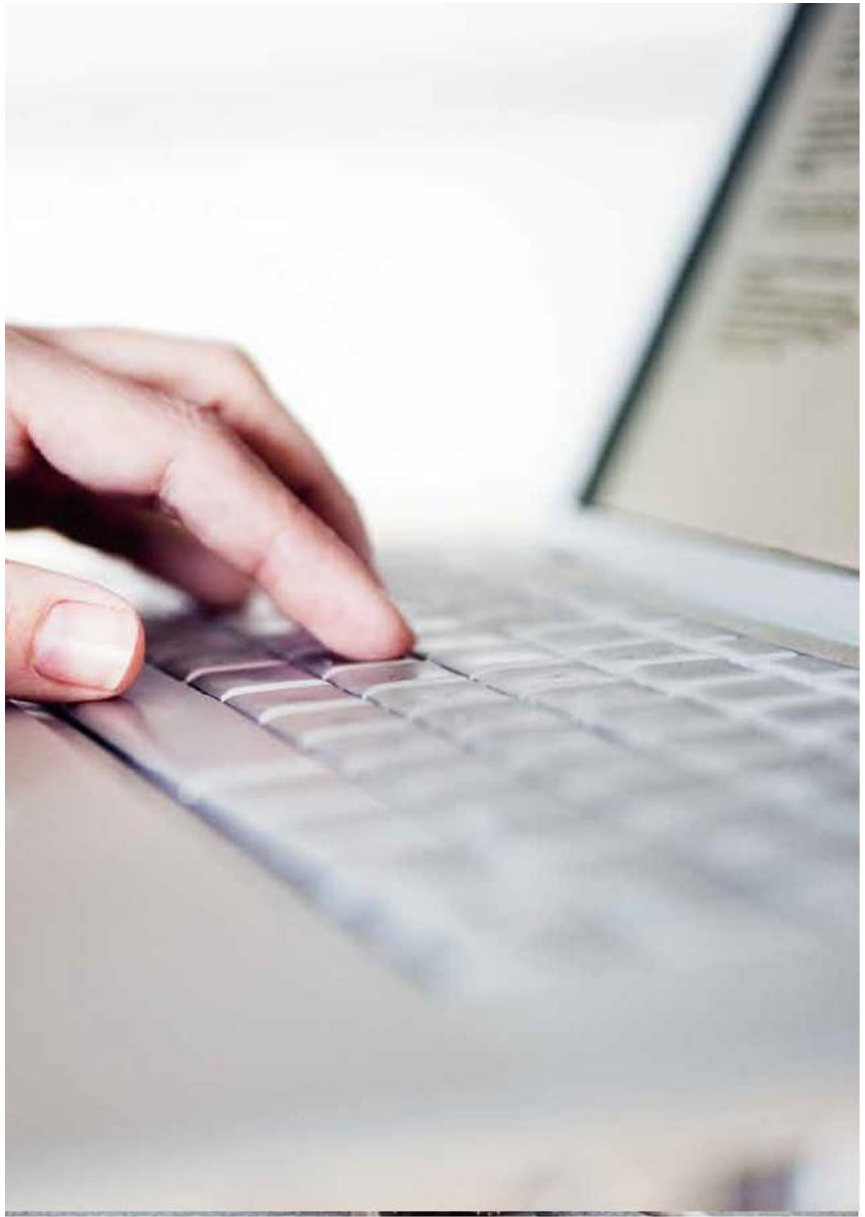
Research Strategy



Cyber Defence is interdiciplinary

Each Sector cannot afford any ”major” projects

By co-ordinating the Sectors we can reach a critical mass

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Roads of R&D financing at MSB

- Annual calls (small fraction to cyber security)
- Thematic call in information secuity – focus on security culture
- Platforms and ”arenas”
- Collaboration with DHS

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International activites involving MSB and DHS

The Meridian process

International Watch and Warnings Network

EU-US WG on Cybersecurity and Cybercrime

Nato

Industrial Resources and Communication Services Group

Common Criteria (MSB/CSEC)

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Avenues of Collaboration

U.S. DEPARTMENT OF HOMELAND SECURITY

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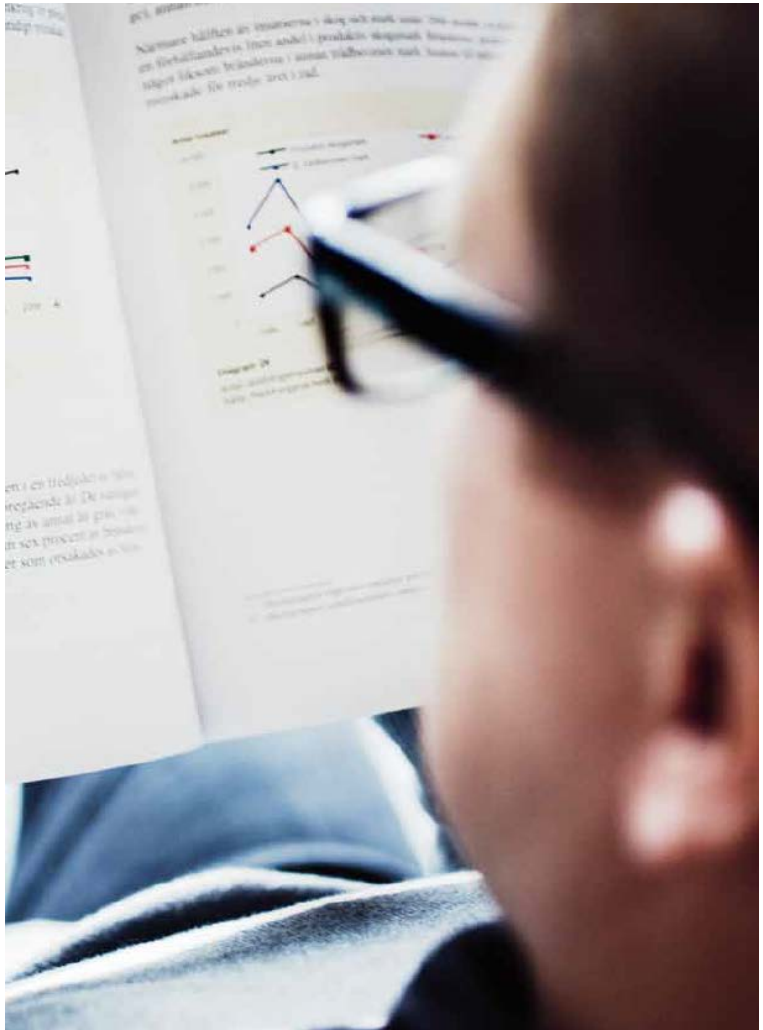
Workshop outcome of interesting areas



ICT-platform security

Computing-platform security

Software security

Socio-technical security aspects

Security metrics and assessment

Privacy enhancing technologies

Advavanced security functions- and countermeasures

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Collaboration and Information Sharing Requires Capacity

Degree of success

Traditional open source intelligence

Evaluate and adapt information

Generate unique knowledge