

# The Digital Economy : the Importance of Systems and Network Security

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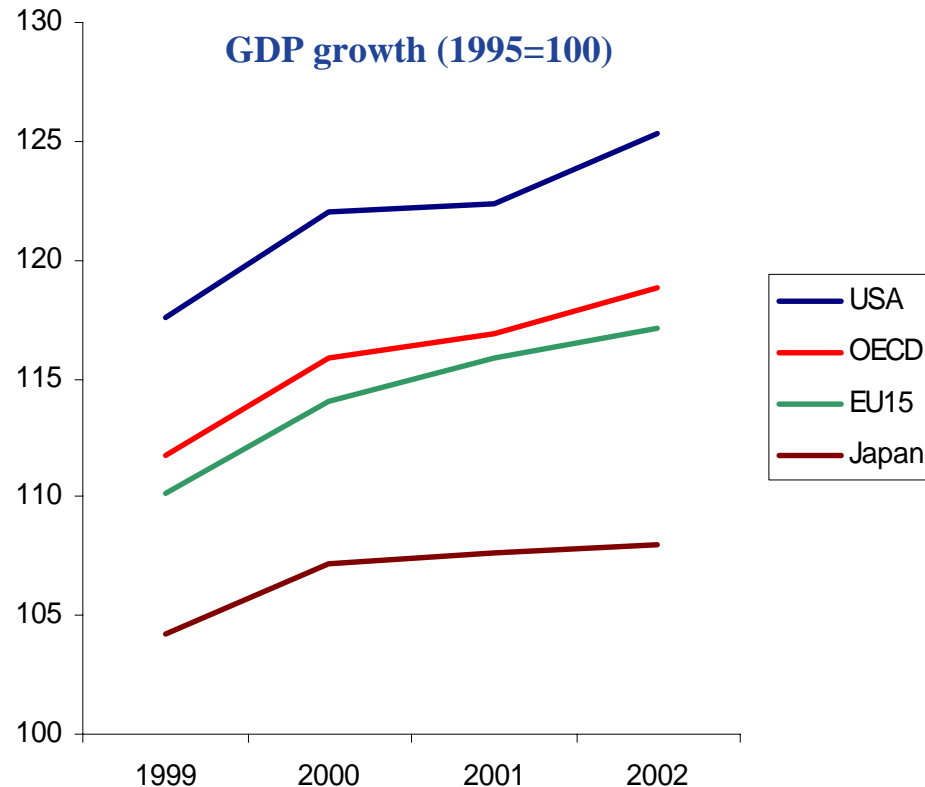
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on Network and Information Systems Security  
Oslo, 13 October 2003



# ICT – a key driver for growth...

## Main productivity drivers:

- R&D
- Human capital
- **ICT-investment and use**
- Industry structure



## ... transforming business practices and governments



- Information economy, network economy – became apparent with the Internet being transformed into a commercial communication tool
- Strong growth in the ICT-sector throughout the 1990-ties and beyond
- Productivity growth in traditional trade and industry due to high level of penetration and use of ICT

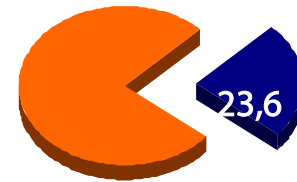


# From a Norwegian perspective...

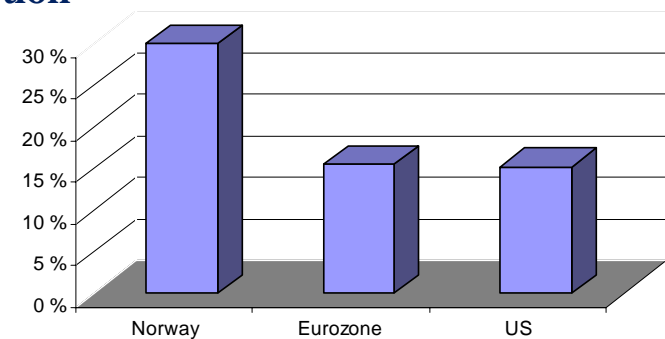


**Significant revenues from petroleum sector....**

**Petroleum sector share of GDP**



**... and a high proportion of the work force in the public sector**



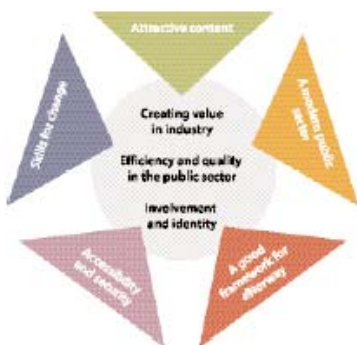
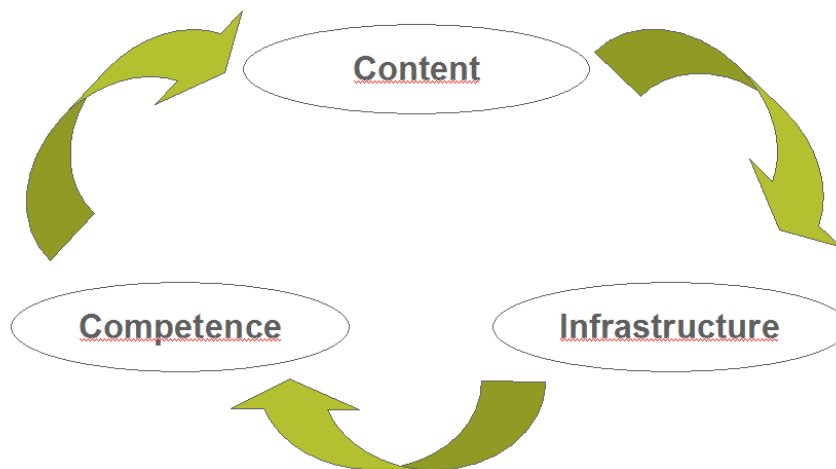
**Population: 4,5 mill**  
**GDP 2001: €207 bill.**  
**Exports 2001:€93 bill.**  
**Imports 2001:€41 bill**



# .. through the eNorway 2005 Action Plan

## Reaching targets of ..

- Creating value for industry
- Efficiency and quality in the public sector
- Involvement and identity



## .. through

- attractive content
- accessibility and security
- skills for change
- a good framework for eNorway

# ... with a focused strategy for use of ICT



## Deep technology penetration

- 75% have internet access
- 65% use internet regularly
- 83% use mobile phones

## Execution and new goals

## High user pick-up

- 1,7 m online banking clients
- 1,1 m tax returns delivered electronically

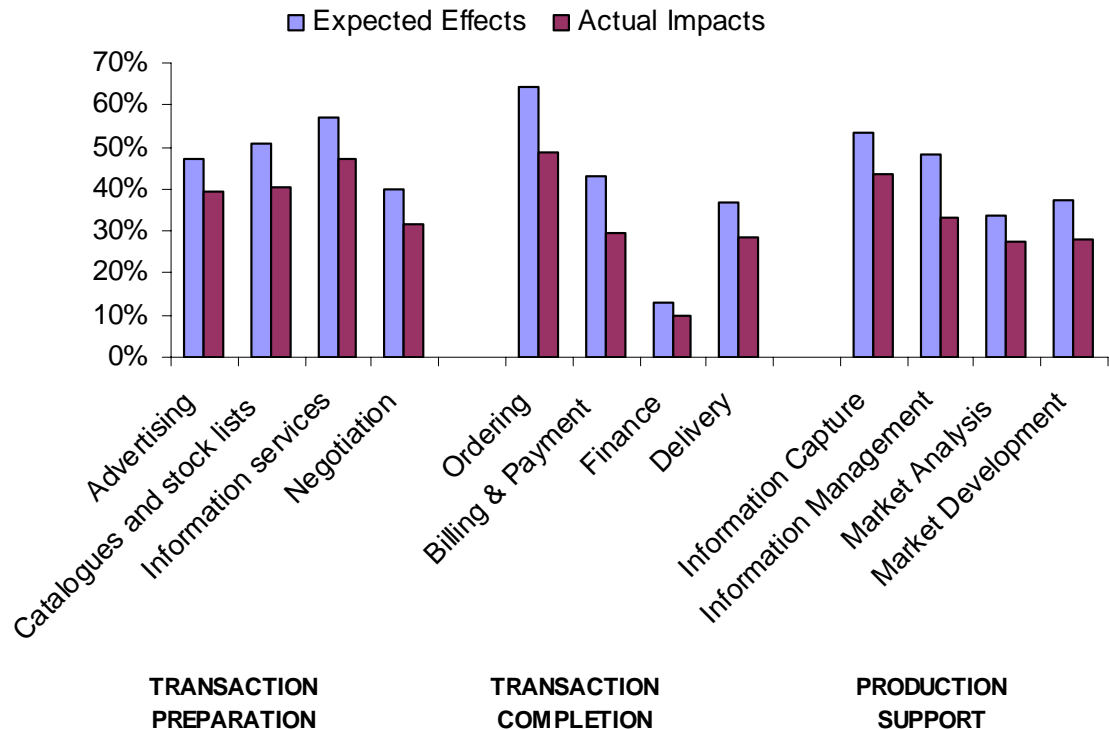
## Focused policy targets

- Nationwide deployment of PKI
- Availability and reuse of public sector information
- Fostering a culture of security
- Electronic reporting by companies to government agencies
- Knowledge management
- eHealth
- and more..

# Grasping the opportunities...



- e-commerce
- global markets
- eGovernment

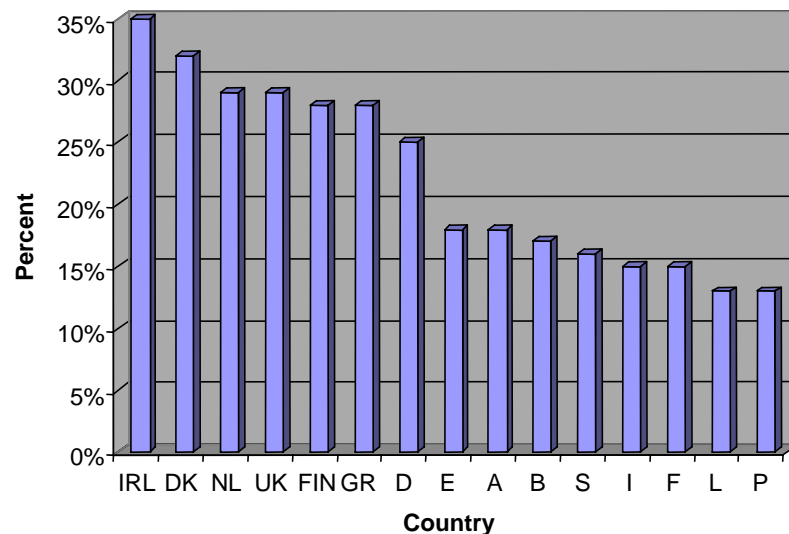


# Transforming the public sector with ICT



- Re-engineering to simplify and improve:
  - ✓ Better co-ordination of benefits, e.g. related to employment, social security and social services – ICT crucial infrastructure
- Developing tailor-made services to meet individual needs:
  - ✓ Increase freedom of choice (Internet service portals, e.g. eHealth)
  - ✓ More flexible and user-oriented organisations (electronic case handling)

**Percentage of Internet users in the EU searching for health information**



Source: OECD





# Analysing the challenges...



**Division of labour**

**Interdependency a prerequisite for growth**

**Globalisation**

**System and Network  
Security and Integrity**

## .. and finding solutions

- Availability and trust:
  - Delivery logistics
  - Payment solutions
  - Security
- Infrastructures:
  - Standards
  - Sector-wide, global ICT-systems
  - Competition vs. monopolies

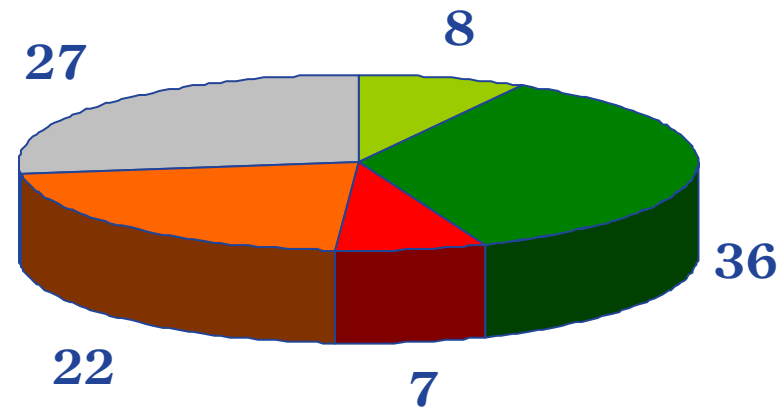


# People are worried.....



**56% of Internet users are not sure or think the security is not good enough**

(Sept. 2002)



Very good    Pretty good    Very bad  
Pretty bad    Don't know



# Developing a national strategy for information security...

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- Reduce vulnerabilities in critical IT-infrastructures and systems, build a culture of security
- Facilitate secure electronic commerce
- Establish a coherent policy base for the authorities
- Introduce suitable coordination of efforts in the field of IT-security on the national level



## ... while focusing on an international approach

- Digital economy supplies us with huge opportunities for economic growth and tools for transforming government
- ICT is an essential tool in realising these opportunities
- Trust in the use of new technologies as well as information systems and network security are some of the main challenges to realising the potential
- We need a coherent, global approach to these issues, OECD is pivotal



**Execution  
is key**



Do not forget to enjoy Oslo!



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