

# Michał KLEIBER MINISTER

# INFORMATION SOCIETY IN POLAND

**HOW FAR ARE WE?** 

XV ECONOMIC FORUM

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### **EC I2010 INITIATIVE**

Our views on further Information Society developments fully agrees with the EC I2010 initiative, including the interpretation of "I":

- ➤ I stands for the Information Space creation of open and stable markets for electronic communication services and emerging digital economy
- ➤ I stands for the Innovation and Investment in IST deployment of IST-based services in ways that bring practical benefits to citizens while raising the pace of innovation in products and services
- ➤ I stands for the Inclusion and a better quality of life information society should by 2010 become an open, transparent and accessible knowledge society

An additional meaning of "I" we suggest:

I stands for the Interchange (i.e. cooperation)

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### NATIONAL IST COORDINATION

### December 2001

Change of law on Government Administration Chapters: new Chapter "Information Society Technologies" introduced

### **July 2002**

Minister of Science (at the Office of the State Committee for Scientific Research - KBN) to coordinate IST Chapter activities

### **April 2003**

KBN transformed into the Ministry of Science and Information Society Technologies responsible for IST activities

(close co-operation and coordination of specific actions with Ministry of Infrastructure, Ministry of Interior and Administration and others – a key challenge)

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MINISTER OF SCIENCE AND INFORMATION
SOCIETY TECHNOLOGIES
as the national IS coordinator

## Minister of Science and Information Society Technologies responsible for:

- ➤ IT infrastructure, networks and systems in administration
- Establishing IT standards in administration
- Supervising and supporting IT projects in public central and local administration
- General and vocational education in IST
- > Active support for Information Society development in Poland
- International cooperation within the IT sector and participation in the EU programs

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### e-POLAND STRATEGY

### January 2004

e-Poland – Strategy for the development of Information Society in Poland for the years 2004-2006

### Strategic goals

- contribution to knowledge-based economy development
- improvement in citizens' quality of life

### Main objectives of the strategy

- provide affordable, fast and secure Internet access to all citizens and businesses
- develop useful on-line content and services
- achieve widespread IST literacy

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### POLISH 2007-2013 PERSPECTIVE & IST DEVELOPMENT TODAY

## Actions taken today (2004-2006) fundamental for fast social development and economy growth in 2007-2013

- > IST implementation is a key factor no time for mistakes today
- Postponing ambitious IST projects (due to "other necessities") will cause negative consequences in the future
- Need for active R&D support many new IST technologies may very soon greatly affect the society
- Importance of IST implementation in public administration (Need for organizational changes and the new legal frameworks
  - IST Implementation Act, pan European initiatives)

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### THE IST IMPLEMENTATION ACT

### Act on IST implementation in public administration entities

- Voted 17 II 2005 almost unanimously
- In force since 21 VII 2005
- ➤ The "Constitution" for Information Society development and Knowledge-Based Economy
- Horizontal law (requires changes in many legal acts)

### This law is crucial for

- Standardization and interoperability of public administration systems (minimal standards/interoperability frameworks)
- Front and back office integration of public administration systems
- Gives citizens and business the right to contact public authorities electronically
- > Supervising and supporting IT projects in public central and local administration
- Multiannual Strategic Plan of IT implementation (horizontal and sectoral projects) in Poland (in the 2007-2013 National Development Plan context)

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### THE IST IMPLEMENTATION ACT

- Technological neutrality of IT systems used by the public sector as a general rule in the act
- Standardization and interoperability of Public Administration systems: Sets the minimum requirements for IT systems used for:
  - fulfillment of public administration tasks
  - public registers
  - electronic exchange of data between public entities
- Introduces The National interoperability framework for public sector
  - IT systems, in order to facilitate seamless communication both among public bodies and between government and citizens and businesses
- Allows for supervising and financial support for IST project in public central and local administration

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### MULTIANNUAL IST DEVELOPMENT PLAN

### MULTIANNUAL STRATEGIC PLAN FOR IST DEVELOPMENT validated every 5 years, which sets:

- priorities for the development of IT systems,
- all sectoral and horizontal IST projects,
- action plan for the information society education,
- public tasks that wil have to be provided electronically.

The Plan will be coherent with the new **EUROPEAN INFORMATION SOCIETY 2010 – i2010** initiative with regards to:

- setting up information space,
- stimulating innovation through investments in R&D,
- enabling access to European Information Society.

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### MAIN PROJECTS IN IST AREA

### **Information Society Projects**

- ❖ IKONKA Project: The network of public internet access points in public libraries 1534 in 11 regions (in 2006 all country > 2000 PIAPs)
- ❖ Polish Internet Library: The largest digital library in Poland with 25 350 digitalised entities (in 2006 > 30 000 entities)

### ICT infrastructure for science

- PIONIER: Polish Optical Internet Network fast Internet for Polish Science (dedicated high speed fibre optic).
- High speed computing centers (Warsaw, Poznań, Gdańsk, Cracow) and GRID Computing Solution (based on OSS!)

### e-Government area

- e-PUAP: Integrated information platform supporting the provision of electronic public services for administration (front-office).
- ❖ STAP: Internal network of Polish Public Administration (back-office)
- ❖ EWD-P: European Information (U32) workflow for Polish Administration

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### **PIONIER – Polish Optical Internet for e-Science (2001-2005)**

**Strategic aim:** build a countrywide optical network connecting all academic and metropolitan networks in Poland and provide scientists with access to advanced network infrastructure (including supercomputers).

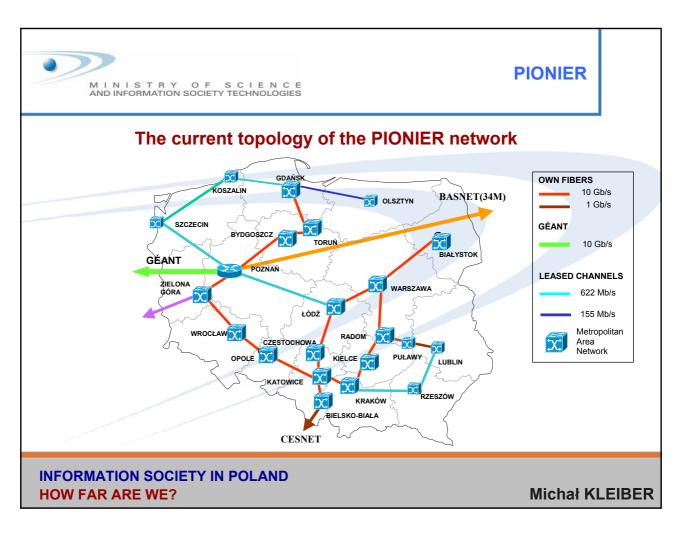
#### **PIONIER Network**

- ▶ 5 high performance computing centres (HPC),
- > 22 metropolitan area networks (MAN) in main research centres
- over 700 academic units, including universities, institutes of Polish Academy of Sciences, hospitals, libraries, industrial R&D institutes
- ➤ about 3000 km length (optic fibres)

#### **Plans**

- expand the PIONIER network across Poland (6000 km)
- provide new connections to neighbouring countries (Lithuania, Slovakia, Belarus, Ukraine).

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### ADMINISTRATION BACK OFFICE STAP- INTERNAL NETWORK

### STAP OBJECTIVES

- Secure, internal network of Polish public administration (means for internal administration systems like EWD-P)
- Back-office infrastructure for e-Government systems data exchange
- TESTA Network Local Domain
- Secure access to Internet (one-point-access)

### **PLANNED ACTIONS**

- 2005-2006: launching of STAP in Warsaw (56 points)
- > 2006- : extension of STAP to cover all the regions

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### **MAIN PROJECTS IN IST AREA**

### **INFRASTRUCTURE AREA** (Ministry of Infrastructure)

- National Broadband Strategy for years 2004-2006
- Polish Telecommunication Act (compatible with EU Directives)

### **ACTIVE PARTICIPATION IN EU PROGRAMS**

- > IST / 5 & 6 FP
- > IDA II / IDAbc
- > e-TEN, e-Safe and e-Content

### **OTHER IST PROJECTS**

➤ National Schengen Strategy (SIS II and VIS Systems)

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# FOR YEARS 2007-2013 AND KNOWLEDGE-BASED ECONOMY

Draft of National Development Plan for years 2007-2013 was approved by Government in Jan. 2005

Minister of Science and Information Society Technologies responsible for a new Operational Program

SCIENCE, NEW TECHNOLOGIES AND INFORMATION SOCIETY

with national actions focused on Information Society and Knowledge-Based Economy

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# FOR YEARS 2007-2013 AND KNOWLEDGE-BASED ECONOMY

## FOUR ACTIONS DEDICATED TO INFORMATION SOCIETY AND KNOWLEDGE-BASED ECONOMY DEVELOPEMENT

- Innovative electronic economy
- Improvement of public access to e-Services
- Development of valuable digital content
- Education and training for digital literacy

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### OPERATIONAL PROGRAM SCIENCE, NEW TECHNOLOGIES AND INFORMATION SOCIETY

### INNOVATIVE ELECTRONIC ECONOMY

**Innovative e-Business -** development of innovative e-Business services - with active implementation of on-going R&D projects

**Modern e-Government -** stimulation of development of innovative A2A, A2B and A2C e-Government services (especially in pan-European context) – administration front-office business process reengineering

**Access to public registers on-line -** administration back-office business process reengineering

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### OPERATIONAL PROGRAM SCIENCE, NEW TECHNOLOGIES AND INFORMATION SOCIETY

### IMPROVEMENT OF PUBLIC ACCESS TO e-SERVICES

**Broadband for all**: stimulation of broadband access to Internet especially in digital divide regions

**IST infrastructure for science and development**: stimulation of IST R&D and participation of Polish institution in ERA

**Multichannel access to e-Services**: mobile platforms, access via IDTV, PDA, infokiosks, etc.

### **DEVELOPMENT OF VALUABLE DIGITAL CONTENT**

Development of digital content (also for pan European/transborder services - multilingual),

Development of innovative digital content based services

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### **STRENGTHS & WEAKNESSES**

MINISTRY OF SCIENCE

#### **STRENGTHS**

- Fast and stable economy growth
- EU opportunities and strong international links
- IST quality of (selected) higher education institutions
- > FDI
- Adequate action plans and legal regulations (compatible with EU initiatives)
- Growing awareness of IST significance

#### WEAKNESSES

- Lack of appropriate innovation culture
- Digital divide
- Quality of political leadership in the area of new technologies
- Low R&D expenditures

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### **COUNTRY'S e-READINESS**

Four pillars of a country's ability to succeed in fostering high impact IST development:

- Political leadership
- Effective governance at central and local level
- IST literacy and competencies
- Technologies

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### **POLITICAL LEADERSHIP**

- Are our e-initiatives integrated with our overall growth strategy?
- Is generating competitive advantage via e-initiatives one of top political priorities?
- Do we have an IST development and implementation vision (road map) in the 1-3 year time frame?
- Are we really attuned to the opportunities/threats enabled by IST?

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### **EFFECTIVE GOVERNANCE**

- What are the e-initiative roles and responsibilities of each member of my team?
- Who has the final decision-making authority on e-initiatives?
- How are e-initiatives funded, including maintenance of the ongoing ones?
- Do we have effective way to incent e-initiatives?

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### e-GOVERNMENT

### What should e-government be?

- > Transformational
  - harnessing technology to change the way government works, rather than merely automate existing practices
- Collaborative
  - solutions developed collectively and openly among public, private, nonprofit and research partners
- Innovative, cost-effective and results-oriented through strategic decisions that produce long-term efficiencies and savings
- Easy to use and available to everyone any time

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### **RECOMMENDATIONS**

- Stronger emphasize IST development in the political agenda
- Mobilize funding of IST by shifting resources from less productive sectors. Promote various forms of venture capital availability
- Improve the administrative competence of central and local governments to better exploit EU funds
- Increase R&D spending in areas crucial for fast economy growth
- Improve innovation climate
- Promote IST education, including life long learning
- Improve administrative procedures to facilitate e-services development
- Improve coordinating capabilities of the ministry responsible for IST
- Support e-procurement

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