



International Economic Forum – Krynica, 6 – 9 September 2006
“New Economy” Track
Panel Series: Europe towards eServices, Innovation and Growth

Three Framing Conditions for eServices

How much do they apply to Eastern European Countries?

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Framing Conditions for eServices

How much do they apply to Eastern European Countries?

Joint Research Centre

1. The Information Society take-up
2. The second phase of the Socio Technological cycle
3. Ambient Intelligence and/or Web 2.0 applications?





The Framing Conditions for eServices

How much do they apply to Eastern European Countries?

1. The Information Society take-up

Source: Upcoming book on IS take-up in the 10 New European Member States, edited by IPTS

- • Telecom investment > IT investment • Substitution Mobile / Fixed • Regional divides • Low Broadband penetration • High wireless penetration (and BB for Internet) • ICT Skills



Framing Conditions for eServices

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2. The second phase of the Socio Technological cycle

Source: Perez C., 2002. Technological revolutions and Financial capital. The dynamics of Bubbles and Golden Ages. EE Publishing, UK

- • **Business environment**: Innovation capacity and culture, Eco. structure, Mgement style, Financial systems
- **Public administration and government policies**: Reforms, Educational system
- **Society**: Social capital, Demography



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3. Ambient Intelligence and/or Web 2.0 applications?

Source: ISTAG, 2001; O'Reilly T., 2005

- • **Technology supply side**: Innovation dynamics and ICT sector structure
- **Services supply side**: Cost effectiveness, control, public value, etc...
- **Users «demand» side** : architecture of participation? Democracy / Democratisation





Thank you

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Framing Conditions for eGovernment developments

How much do they apply to Eastern European Countries?

➤ Information Society take-up

Source: Upcoming book on IS take-up in the 10 New European Member States, edited by IPTS

➤ Second phase of Socio Technological revolution

Source: Perez C., 2002. Technological revolutions and Financial capital. The dynamics of Bubbles and Golden Ages. EE Publishing, UK

➤ The growth of the Service Economy

Source: Jim Spohrer, Director of Services Research, IBM

➤ Ambient Intelligence and/or Web 2.0 applications?

"In this vision, people will be surrounded by intelligent and intuitive interfaces embedded in everyday objects around us and an environment recognising and responding to the presence of individuals in an invisible way by year 2010. "

"Web 2.0 is the network as platform, spanning all connected devices; Web 2.0 applications are those that make the most of the intrinsic advantages of that platform: delivering software as a continually-updated service that gets better the more people use it, consuming and remixing data from multiple sources, including individual users, while providing their own data and services in a form that allows remixing by others, creating network effects through an "architecture of participation," and going beyond the page metaphor of Web 1.0 to deliver rich user experiences.

ipts



Framing Conditions for eGovernment developments

How much do they apply to Eastern European Countries?

- Technologies:

Web2.0 + mobile technologies = a dynamic platform for any content, any use, anywhere to anyone.

Real convergence

- Content:

Tacit knowledge of our societies and economies becomes ``visible``, codified and thus usable and productive

Knowledge management

- Actors:

New players: 2nd part of the Perez cycle will be co-dominated by the Googles, Yahoos!, E-bays, Skypes, My-space`s, You tube`s etc

Creative destruction

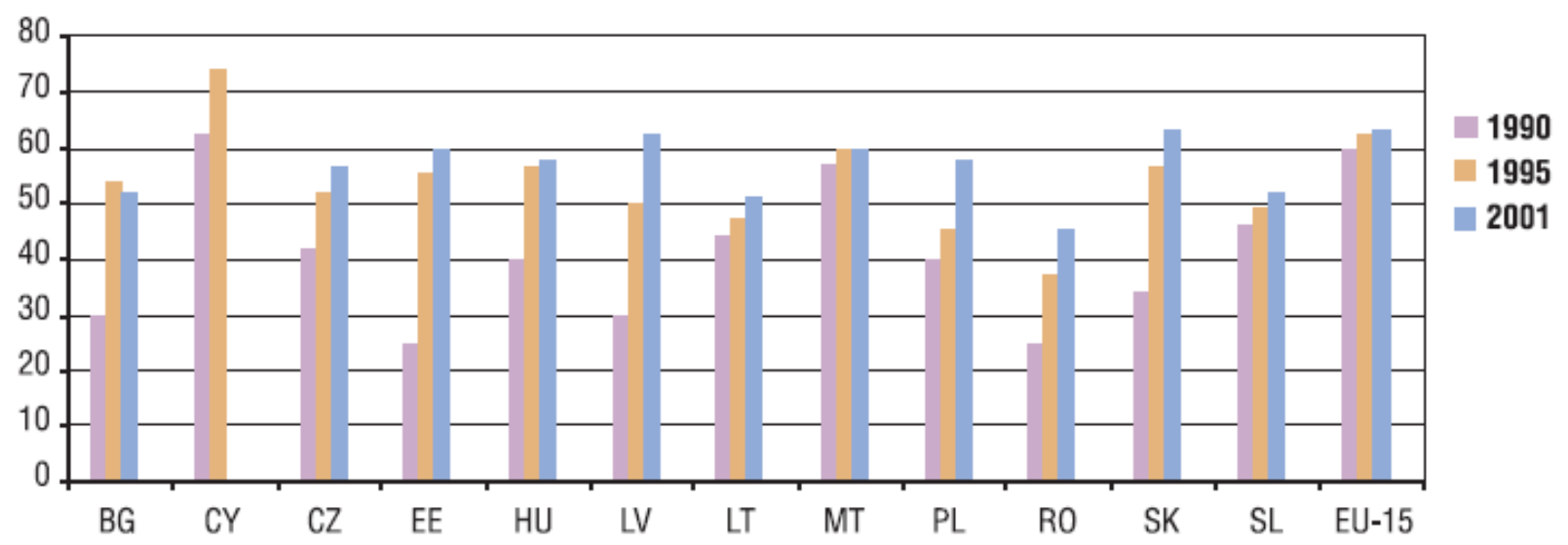




Framing Conditions for eGovernment developments

How much do they apply to Eastern European Countries?

■ Chart 48. The share of services in total output (%).



Source: *European Competitiveness Report, 2002*





Framing Conditions for eGovernment developments

Service Innovations & Service Science



Why should governments care?

Because the world is becoming a service system.

Top Ten Nations by Labor Force Size

(about 50% of world labor in just 10 nations)

A = Agriculture, G = Goods, S = Services

Nation	% ww Labor	% A	% G	% S	25 yr % delta S
China	21.0	50	15	35	191
India	17.0	60	17	23	28
U.S.	4.8	3	27	70	21
Indonesia	3.9	45	16	39	35
Brazil	3.0	23	24	53	20
Russia	2.5	12	23	65	38
Japan	2.4	5	25	70	40
Nigeria	2.2	70	10	20	30
Banglad.	2.2	63	11	26	30
Germany	1.4	3	33	64	44

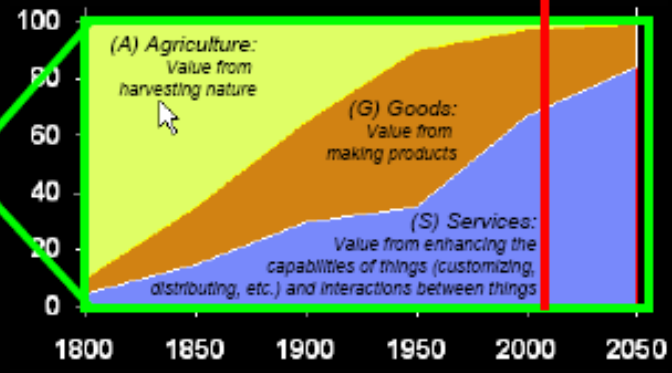
>50% (S) services, >33% (S) services



2004

2004

United States



The largest labor force migration in human history is underway, driven by urbanization, global communications, low cost labor, business growth and technology innovation.





E-ruptive trends index

Search engine
Location based services (GoogleEarth)
Blog
Podcast
RSS news feeds
P2P
EBay
VoIP
Wifi sharing
Social networking
Taste sharing
Games
Wiki (collaborative content)



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