

Regional Development Forum 2008

“Bridging the Standardization Gap in Developing Countries”

Brasilia, May 19 – 22, 2008

Strengthening Involvement of Developing Countries in ICT Standards Development

**Oscar Avellaneda
Telecom Engineering
Industry Canada**

What is standardization?

Consumers

- Protection

Enterprises

- Strategic
- Product interoperability and maintainability

Suppliers

- Technical, quality assurance

Stakeholders

Governments

- Advance national competitiveness
- Promote domestic markets
- Protects the public interest

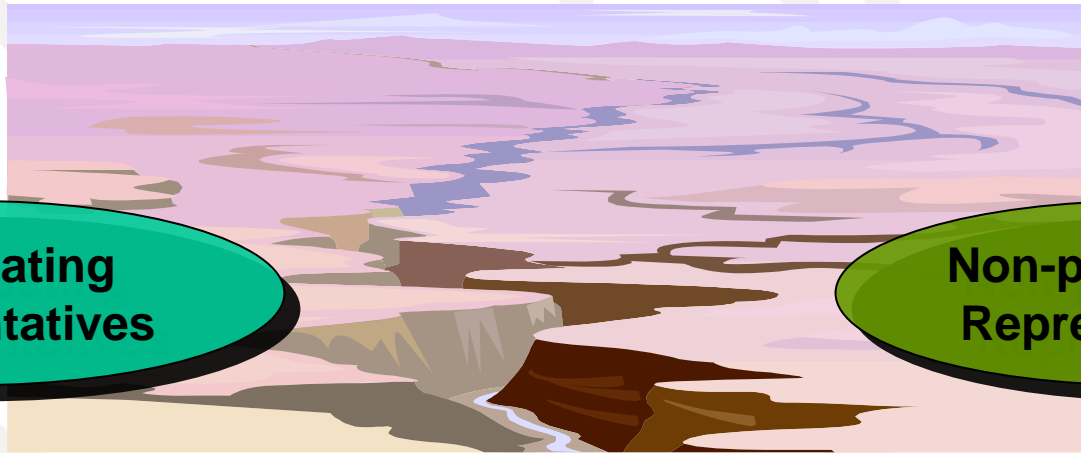
Academics

- Promote research results

Standardization is a tool for stakeholders

What is the standardization divide?

- Disparity in the ability of those who access, implement, contribute to and influence international standards (ITU TSB Definition)



Participating
Representatives

Non-participating
Representatives

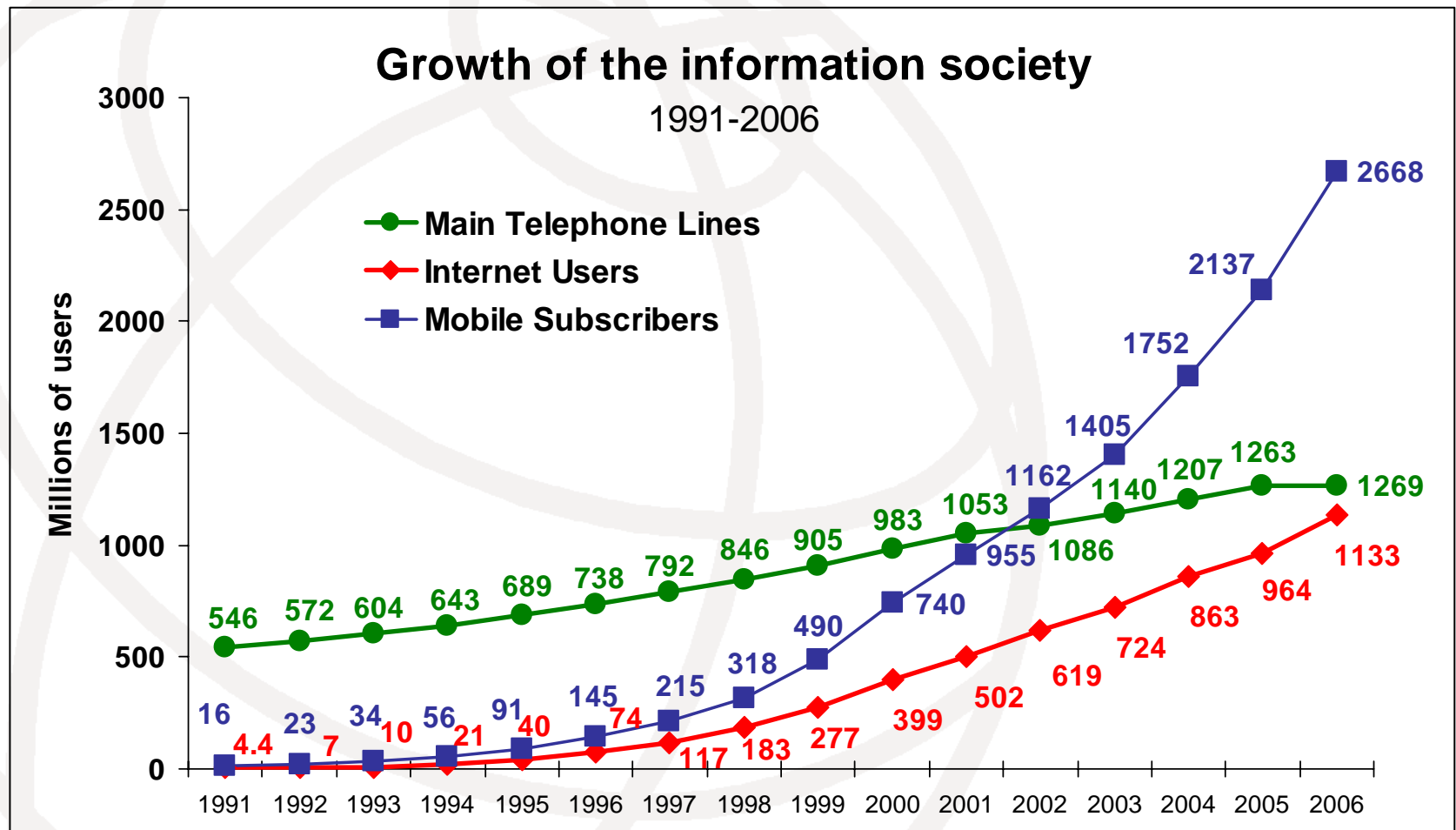
Standardization divide typically defined with respect to divide between developing and developed countries

Why should stakeholders be involved in standardization?

- Enables consumers (e.g., service providers) to make better choices
 - Draft better RFPs and reference current technology standards
 - Be better informed about equipment to buy
- Lowers infrastructure cost
 - Ensures competition exists between vendors
- Means to provide feedback on standards activities and understand ongoing work
 - Influence standards work
 - Advance stakeholder knowledge of standards
 - Provide faster Return on Investments (ROI)
 - Reduce Total Cost of Ownership (TCO)
 - Generate more sales

Participation in global standards development helps bridge standards divide dimensions

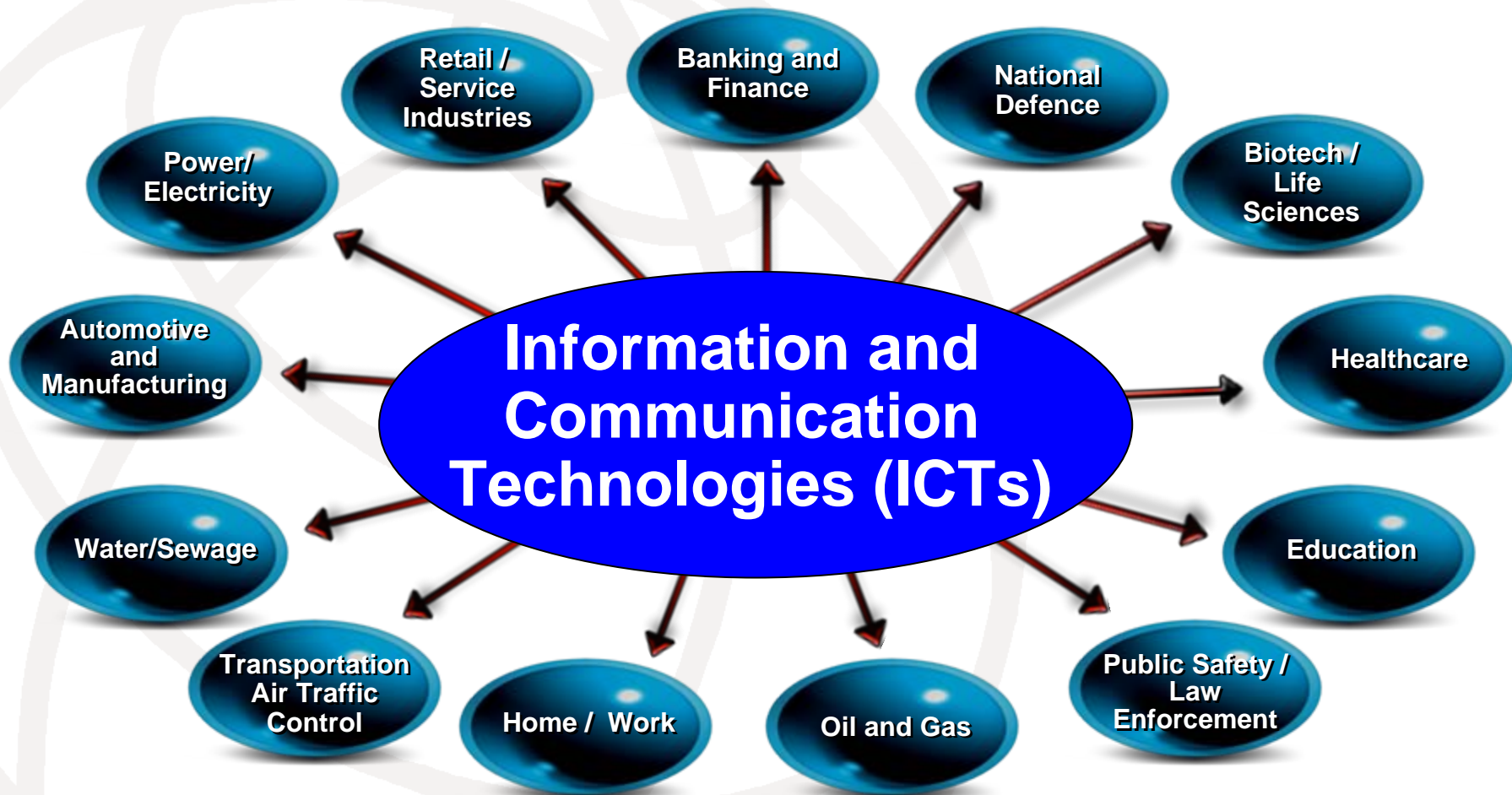
A global information society is emerging



Source: ITU, 2007

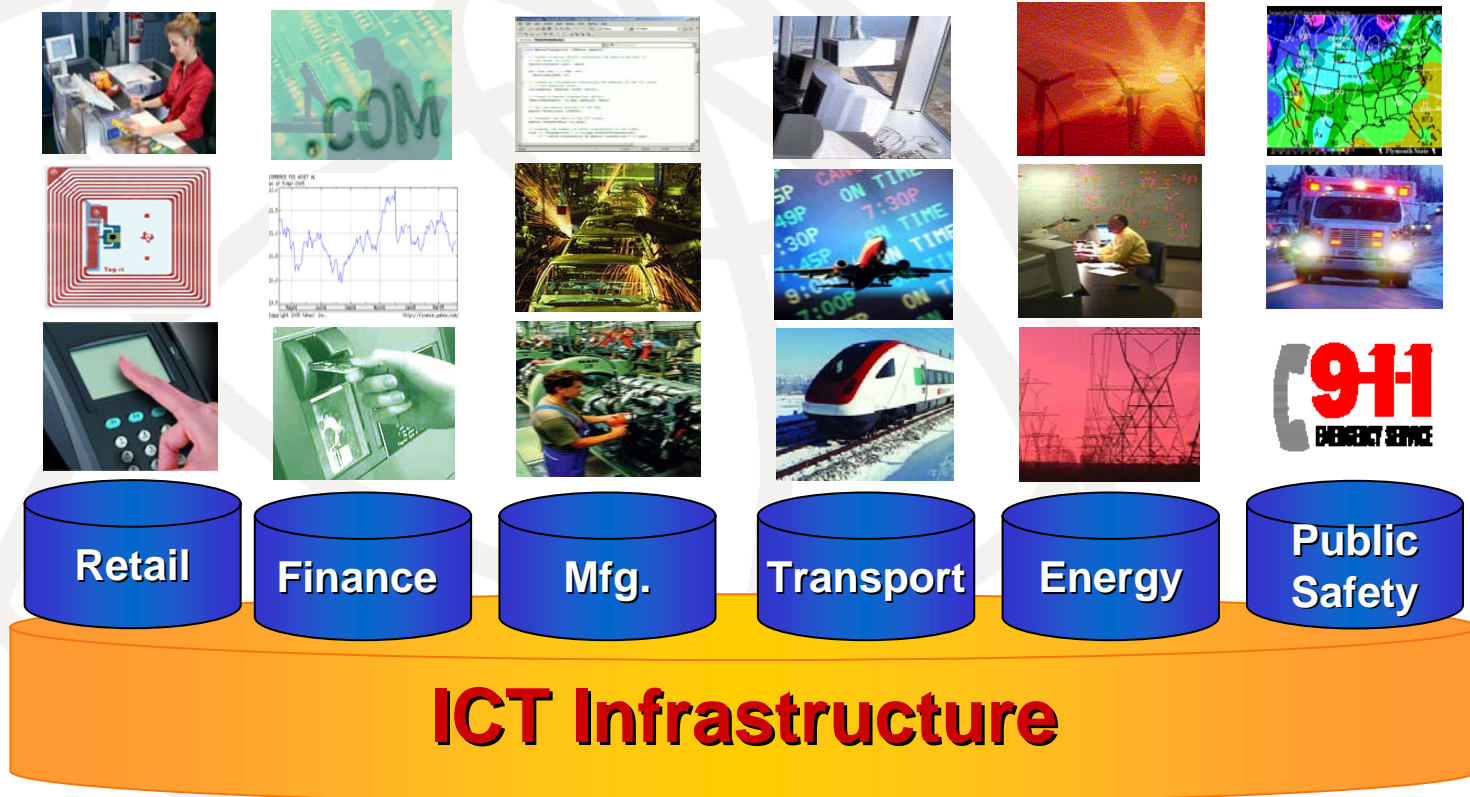
Brasilia, May 19 – 22, 2008

ICTs at the centre the global information society



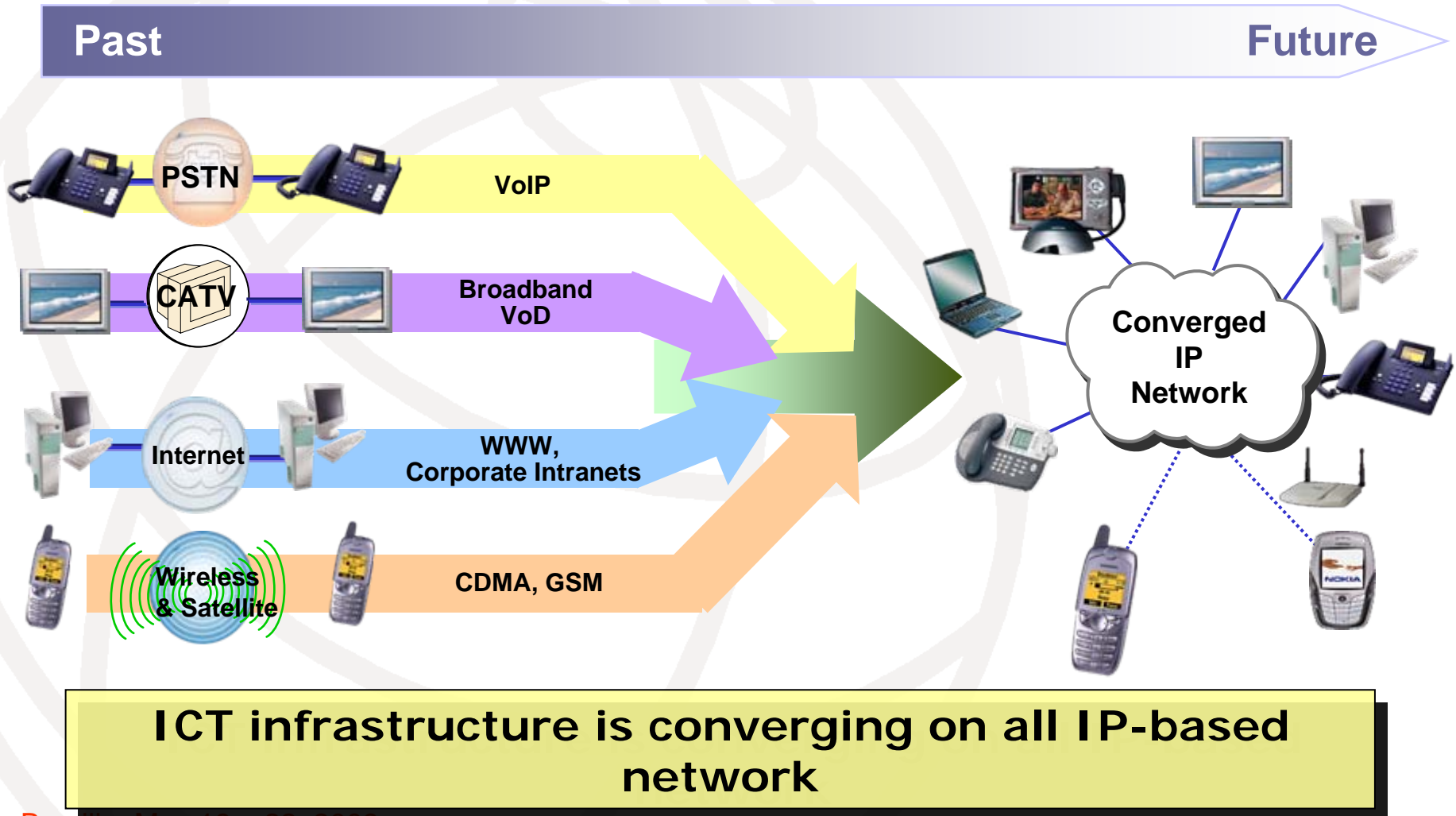
**Information and Communication Technologies (ICTs)
power the global information society**

Critical infrastructures depend on ICT infrastructure

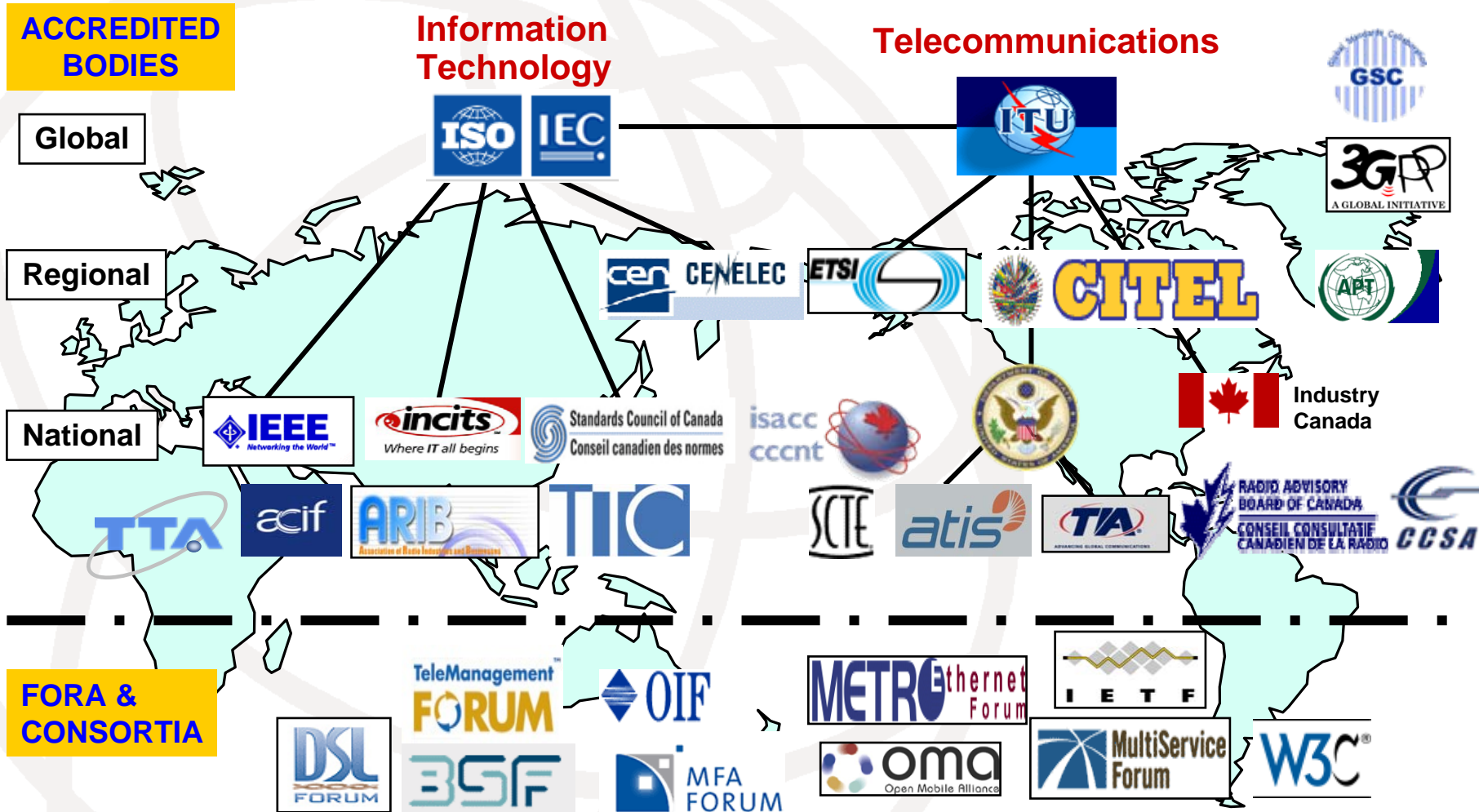


Standardization of ICTs become even more critical to protect societies critical infrastructures

ICT infrastructure in transition



The role of ICT standards development organizations



ICT standards deal with complexities of convergence

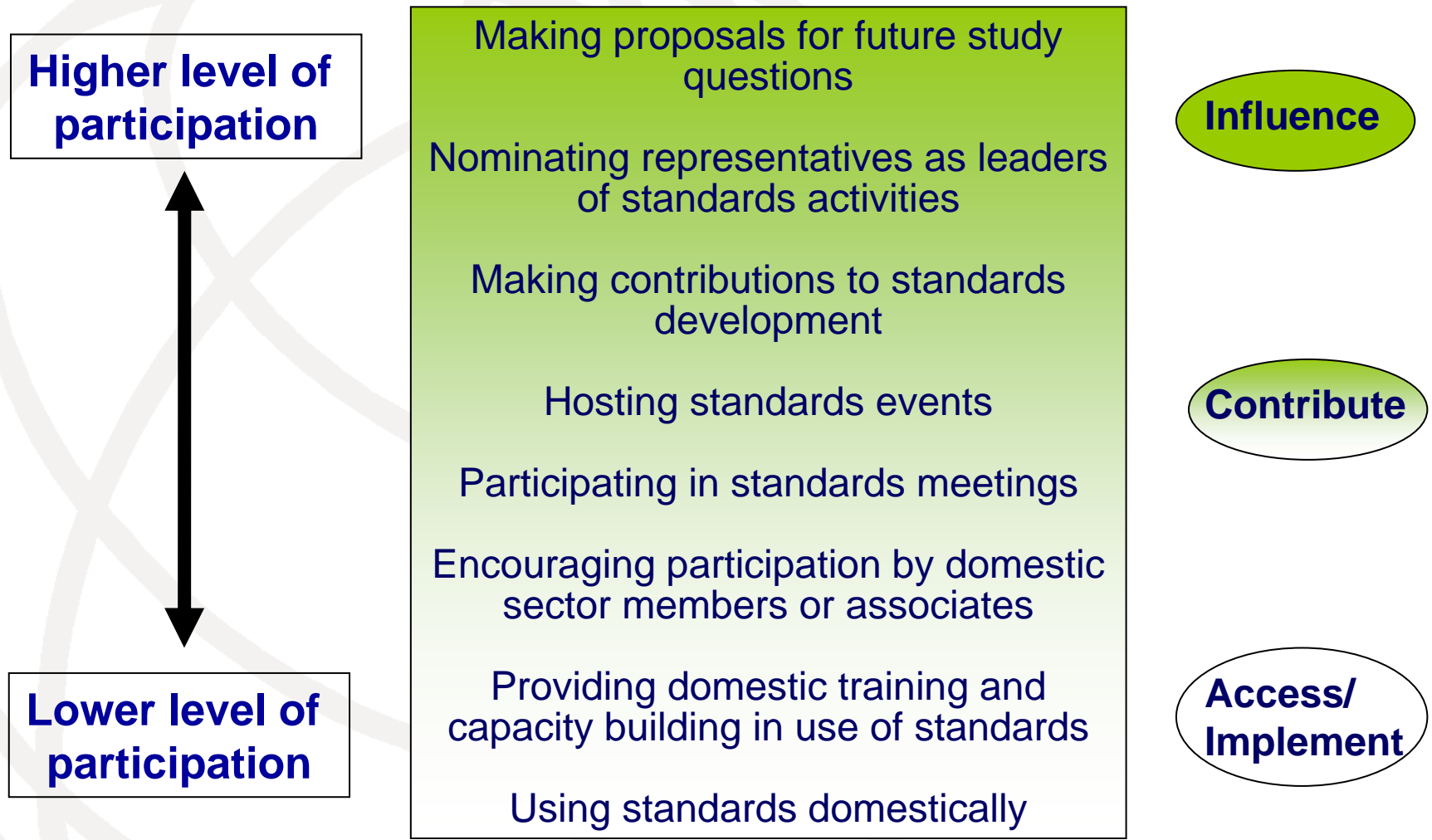
Addressing the standardization divide

- Participation in standards development directly relates to the dimensions of the standardization divide
 - Access
 - Implementation
 - Contribution
 - Influence
- Barriers to participation
- Solutions and best practices to addressing the barriers to participation

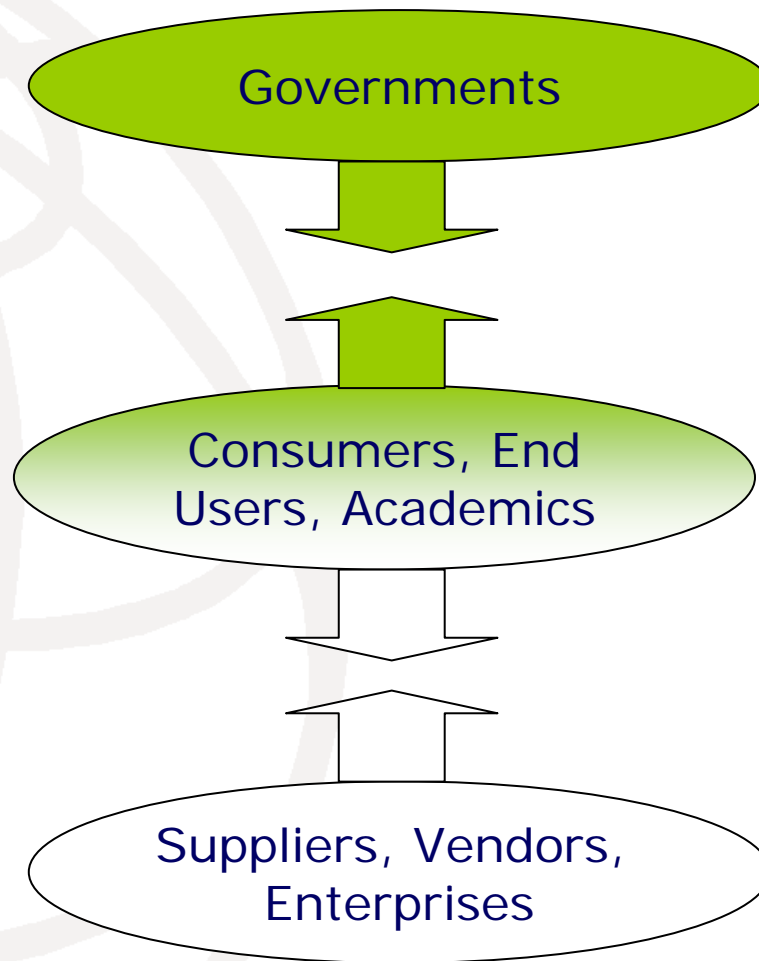


Standardization divide hinges on standards development participation

Participation levels in ICT standards development process

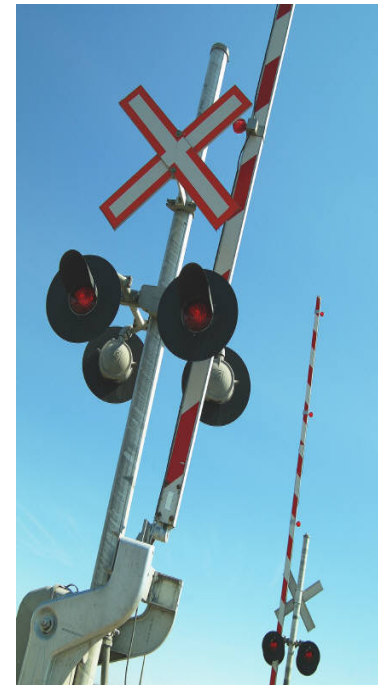


Participation by stakeholder groups in standards development process



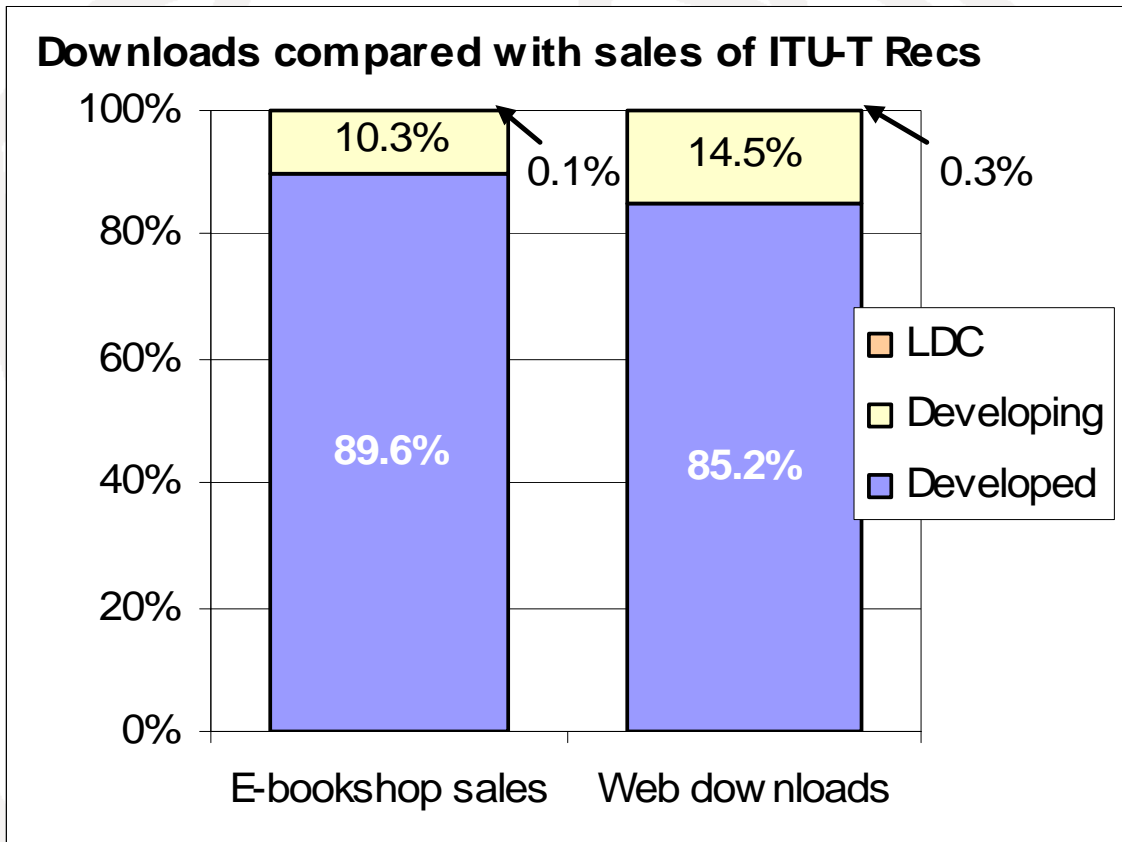
Barriers to participation in ICT standards development process

- Accessibility
- Long-term Participation
- National policy making processes
- Lack of technical expertise
- Ongoing process between meetings
- Informal procedures
- Cost
- Networking and alliances
- Private and/or NGO representation
- Culture and language
- Transparency



Key common barriers contributing to standardization divide

Improving accessibility



- “E-bookshop sales” relate to Jan-Dec 2006
 - 10.4% from LDC and DC
- Web downloads relate to Jan-May 2007
 - 14.8% from LDC and DC

Overcoming the accessibility barrier helps bridge the standardization divide

What other practical actions can be taken to improve accessibility

- Raise awareness of resources available
- Develop implementation guides for standards
- Develop roadmaps and guide documents for standards
- Sponsor regional workshops



Practical actions to narrow the standardization divide

Solutions and best practices for improving participation

- Technical assistance
 - Subsidize travel costs and offer training
- Regional sub-groups
 - Set agendas and implement programs locally
- Internal capacity-building
- Human capacity-building
 - Mentoring and fellowship programs



Must consider solutions adopted by other organizations to improve participation

Summary

- The global information society is powered by ICTs
- The ICT infrastructure is evolving into a converged network, leading to challenges of interoperability, performance and security
- Global ICT standards help address these challenges
- Participation is the key to addressing standardization divide dimensions: access and implementation; contribution; and influence
- Solutions and best practices for improving participation may be adopted from other organizations



We must expand upon actions to improve accessibility and identify additional actions to help overcome all barriers to participation