

ITU Regional Standardization Forum (RSF) on  
“Addressing Competition Issues in ICT  
Economy”

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Session 4: Transforming Regulatory Regimes in New,  
Emerging and Converging Technological Scenario

# Role of the Regulators

- Protect the interest of service providers,
- Protect the interest of consumers,
- Ensure the orderly growth of the sector,
- Identify issues arising from the changing techno-commercial scenario and take remedial or preventive measures,

# What has changed ?

- Technological convergence,
- Integration of independent technologies to form a new outcome,
- Smart Phone- telephone+ computer + camera+ music player+ television (TV)+geolocating and navigation tool etc—into a single device,
- Technological convergence coupled with media convergence and network convergence makes policy and regulation even more complex

# Key characteristics of convergent devices

- First, converged devices can execute multiple functions to serve blended purpose,
- Second, converged devices can collect and use data in various formats and employ machine learning techniques to deliver enhanced user experience,
- Third, converged devices are connected to a network directly and/or are interconnected with other devices to offer ubiquitous access to users

# Key Challenges resulting out of technological convergence

- Regulatory jurisdiction
- Digital privacy, and
- Data security.

# Regulatory jurisdiction

- Merger and integration of multiple technologies from distinct functional categories into one converged technology poses challenges to defining regulatory policies and responsibilities,
- Determination of oversight jurisdictions and regulatory authorities for converged technologies is not easy as the boundaries that once separated single-function technologies blend together,
- Defining policies that regulate technological converging industries may not be simple or straightforward due to blending boundaries of existing categories

# Digital privacy

- Technological convergence leverages large volumes of data for improving the user experience by generating more tailored and anticipatory results,
- However, such data can potentially identify, locate, track and monitor an individual without the person's knowledge,
- Collection and use of personal and machine data also raises digital privacy concerns for consumers because a piece or aggregation of information could identify an individual or reveal patterns in one's activities,
- Potential for sale of personal data to third-party entities without an individual's informed consent. With advent of converged technologies , digital privacy issues will likely remain central.

# Data security concerns

- Often associated with smart devices' convenient ubiquitous features that may double as vulnerabilities exploited by malicious actors,
- Data security, a component of cybersecurity, protects data from unauthorized access and use,
- Along with digital privacy, data security is a pertinent issue to technological convergence,
- As converged devices generate and consume large volumes of data, multiple data security concerns have emerged: potentially increased number of access points susceptible to cyberattacks, linkage to physical security, and theft of data, financial frauds etc.



# Some other issues that are areas of concern for Policy and Regulation

- Spectrum management and licensing,
- Consumer protection,
- Digital inclusion,
- Promoting Innovation,
- Cross-border flow of data and OTTs
- Artificial Intelligence, Blockchain, M2M communication in IoT era and related issues-QOS, Tariffs, Competition, Regulation Vs Forbearance

# Pace of change and uncertainty

- The illiterate of the 21st century will not be those who cannot read and write, but those who cannot learn, unlearn, and relearn. -Alvin Toffler
- Policymakers and regulators have therefore to learn, unlearn and relearn continuously at a pace and a scale hitherto never followed, otherwise they cannot remain efficient, effective and relevant



“Our future is a race between the growing power of our technology and the wisdom with which we use it. Let’s make sure that wisdom wins”

S. Hawking

# Thank You