

Asia and the Pacific Regional Dialogue on Digital Transformation:
Gearing up for inclusive and sustainable development

Session 2: Policy and Regulation- Report Presentation: Fibre Optic
Overhead Ground Wire & Co-deployment with Transport and Energy

Co-deployment with Transport and Energy (Electricity and Oil & Gas) Infrastructure

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Agenda

- Co-deployment Initiatives from the Asia-Pacific Region
- Fibre Optic Overhead Ground Wire (OPGW)
- Co-deployment with Transport and Energy (Electricity and Oil & Gas) Infrastructure
- Policy and Regulatory Issues



Co-deployment Initiatives from the Asia-Pacific Region

- Broadband Internet as a basic facility - 5G, Internet of Things (IoT) and Artificial Intelligence (AI).
- Study of the prevailing scenario of cross-sectoral infrastructure sharing
- Co-deployment of OFC with sectoral utilities
- Emerging technologies for co-deployment
- Policy and regulatory Issues



Fibre Optic Overhead Ground Wire (OPGW)

- Optical power ground wire (OPGW) or optical fibre composite overhead ground wire (as per IEEE)
- OPGW deployment in India and Bhutan
- “Powertel” - Powergrid India
- *Robotics in Co-deployment* - MTCIL & Sterlite: build, own, operate and maintain
- Bhutan Power Corporation (BPC) OPGW Installations
- Power Grid Company of Bangladesh Limited (PGCBL) - Bangladesh Submarine Cable Company Limited (BSCCL)



Co-deployment with Transport and Energy

- Grameenphone- Bangladesh Railway initiative
- Korea Expressway Corporation (KEC) - Intelligent Transportation System (ITS)
- Korea Electric Power Corporation (KEPCO) - Knowledge Data Network (KDN)
- Oil India, Gas Authority of India, Hindustan Petroleum Corporation, Indian Oil Corporation - registered as Infrastructure Provider (Category I)



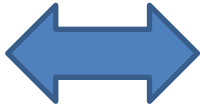
Policy and Regulatory Issues

- Different models of co-deployment are emerging
- Broadband as an Infrastructure common
- Infrastructure Providers
- Necessary legal frameworks and regulatory norms
- Legal framework protecting data privacy

Missions, Policies and Partnerships

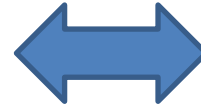
- Intelligent Transport System (Republic of Korea)
- Bharatnet Project, National Broadband Mission (2019);
- National Digital Communications Policy (2018)
- (India)
- Digital Bangladesh
- National Broadband Masterplan (Bhutan)

**Nationals Missions,
Projects,
Programmes**



Policies, Laws, Regulations, Guidelines, Executive Orders

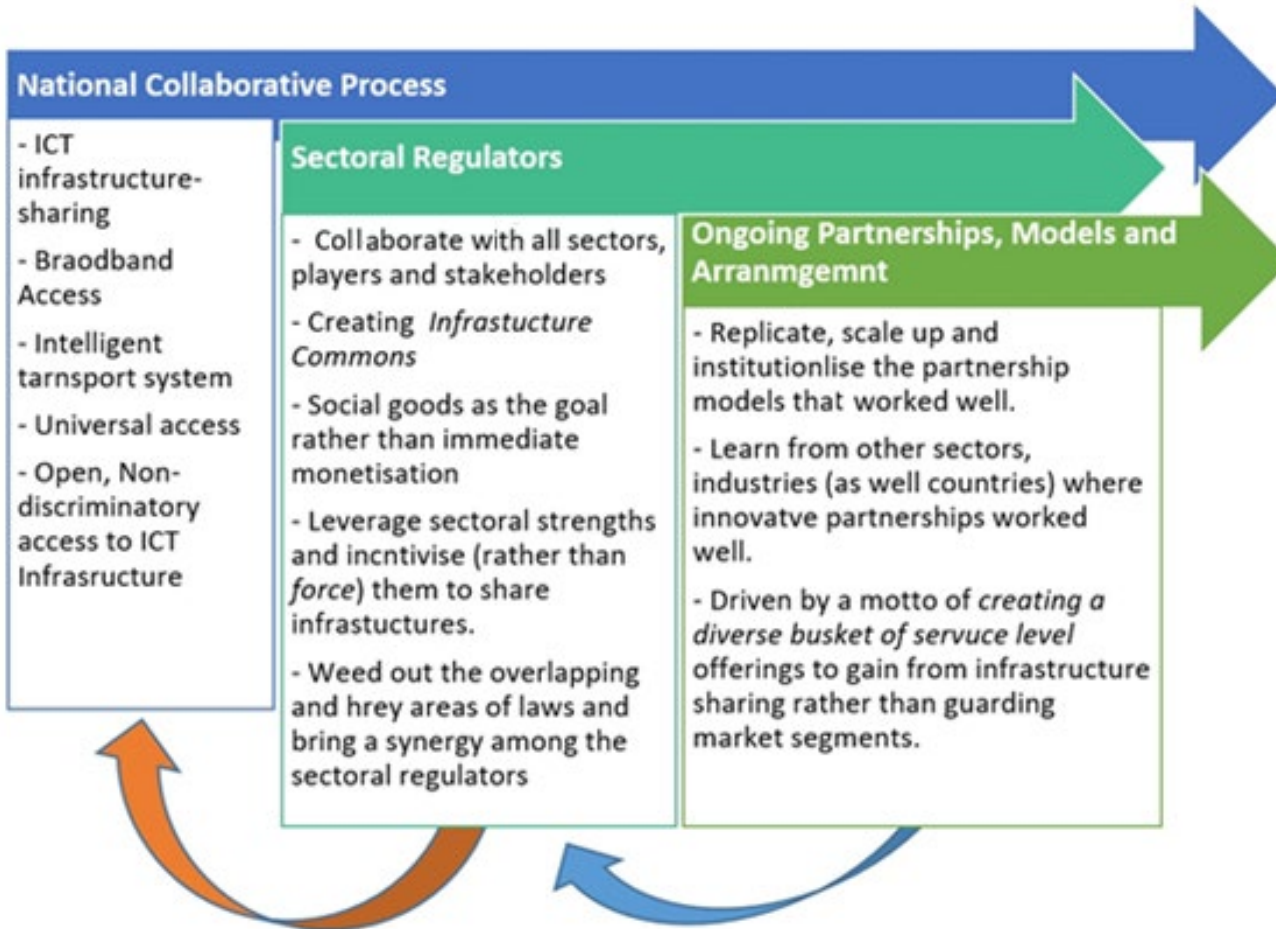
- National Integrated Transportation System Efficiency Act, 1999, National ITS Master Plan (2020), Telecommunications Business Act (Republic of Korea).
- Indian Telegraph Act, 1885; Indian Telegraph Right of Way Rules, 2016
- National Broadband Policy, 2009; Infrastructure Sharing Guideline, 2011; National Telecommunication Policy, 2018 (Bangladesh)
- Information, Communications and Media Act, 2018; Telecommunications and Broadband Policy, 2014 (Bhutan)



Agreements, MOUs, Partnerships

- Public Private Partnerships (PPP)
- Partnerships for incremental expansion of broadband in rural areas
- Licensing sectoral players as ICT facility providers
- Designating sectoral operators as facility management authorities
- Infrastructure sharing agreements
- Value added ICT based service providers to cover the last mile
- Joint Ventures, Special Purpose Vehicles to expand ICT Networks to uncovered areas
- Utilisation of Universal Service Obligation Fund, incentives for providing access in remote locations.

Framework for Collaborative Regulation





Thank you!