

WG1: Regulatory framework and policy formulation of broadband internet

Key Areas: Importance of regulatory and institutional framework in order to measure need assessment and to reap the benefits of ICTs in Bangladesh

Task 1: Come up with certain clear strategic direction for broadband (20 minutes)

Your answer to address the following:

- Unambiguous definition
- Stock of current and the potential capacity – bandwidth capacity
- Stock of current and futuristic coverage plan
- Stock of current and futuristic availability
- The current status of reliability - QoS
- The current status of affordability – cost of access

Task 2: Come up certain supply-side operational directions for Broadband development (20 minutes)

Your answer to address the following:

- Current status of infrastructure
- BB Implementation models at present
- Executional hurdles and ease of doing business in BB development
- Data plans and competition issues in BB business
- Efficiency in roll-out of BB
- Technological options for BB

Task 3: Come up with certain demand-side operation directions for Broadband development (20 minutes)

Your answer to address the following:

- Current status of access – rural, semi-urban and urban; gender; income status
- Current status of affordability – rural, semi-urban and urban; gender; income status
- Awareness
- Relevant services
- Content
- Online safety

Task 4: Come-up with certain implementational directions for Broadband development (20 minutes)

- Governance model
- Private-led government grant
- Fully private with government light-touch
- Private-led but government funded
- PPP
- Fully government-led and owned

Task 5: Prepare the summary of your report and recap your discussions among yourselves (10 minutes)

WG2: Core Technology and Service Infrastructure Review

Key Areas: Identify core ingredients (such as wireless spectrum, fiber backhaul and backbone, rendering ICT services more affordable etc.) for increasing fixed or wireless broadband deployment.

Task 1: Review the core Technologies and BB infrastructure in Bangladesh (20 minutes)

Your answer to include the following:

- Status of technologies - 2G, 3G, 4G, LTE,5G
- Review of transmission medium – microwave, fiber
- Review of network topology – Rings, meshes, hybrids
- Review of network protocols – IP, E2E, MPLS
- Review of current traffic movement – micro-sites, small cells, wifi?
- Virtualisation of network elements –
- Review of technology dependency – 2G, 3G, 4G, 5G, etc - Technology locked or agnostic
- What are the BB infrastructure layers in Bangladesh?
- The status of unified licensing regime and the challenges in implementing

Task 2: Discuss and review the ease of infrastructure deployment and efficiency in utilisation (20 minutes)

Your answer to include the following:

- Current RoW situation
- Digging for infra-sharing?
- Do we use GIS mapping-based planning and monitoring?
- Building guidelines in smart cities and urban locales
- Current status of tower infrastructure
- Cost of tower infrastructure – green or otherwise
- Protectionism

Task 3: Review the current scenario of tower infrastructure deployment (10 minutes)

Your answer to include the following:

- Clearance
- RoW issues
- Fees and other costs
- Standards
- Power supply – green?

Task 4: Review the current scenario of fiber infrastructure deployment (10 minutes)

Your answer to include the following:

- Clearance
- RoW issues
- Standards
- Dig-once scenarios

- GIS mapping and fiber checks
- Do we have utility corridors?

Task 5: What does the broadband value chain in Bangladesh look like (15 minutes)

- Whole sale to retail (Undersea cables; national long distance; domestic transmission; fiber to tower; connectivity to enterprises; SMEs; UDICs; homes
- Which is the dominant technology in the above? – VSAT, Fiber, DSL; Wireless broadband; Wifi; AWS; etc Can we map?
- What is the data speed like? And, what is the capacity need like?

Task 6: Review the status of spectrum holding by operators (5 minutes)

- What are the desired reforms in spectrum?

Task 7: Prepare the summary of your report and recap your discussions among yourselves (10 minutes)

WG3: Strategy development to achieve broadband development through specific activity plan

A clear vision and guiding strategy to support the development and coordination of affordable broadband plans for citizen-centric across Bangladesh

Task 1: What is the vision statement of Bangladesh's BB development (20 minutes)

Your answer to include the following:

- What is the mission statement?
- What are the strategic objectives?

Task 2: What are the connectivity options for broadband in Bangladesh? (20 minutes)

Your answer to include the following:

- Connectivity goals
- Should there be a national connectivity program? How would it be geographically planned? An idea for a national digital grid? Convergence of various acts and policies?
- Could we recognise spectrum as a people's resource? And, how do you harness the same? Allocation; utilisation; harmonisation; refarming; use of NGNs
- What are the envisaged benefits of Bangla communication satellite? Optimisation of satellite technologies? And, how would the satellite ecosystem look like in Bangladesh?
- Goals for including the excluded areas? How do we review the scope of SoF
- How do we address QoS issues in Bangladesh; And public safety issues?
- How do we incentivise clean energy technologies in telecom

Task 3: What are the futuristic options for Bangladesh's BB development? (20 minutes)

Your answer to include the following:

- Skills; job market; enterprise opportunities
- Global hub and other opportunities for the nation
- Expansion of IoT ecosystem and other 5G dependent applications
- Improving efficiencies of production industries through BB
- Smart cities applications through BB

Task 4: How would you achieve simplification of rules, innovation and R&D in BB-related tools, applications, etc (10 minutes)

Your answer to include the following:

- Incentives to local manufacturing
- Start-up initiatives in Bangladesh
- Innovation and sand-box initiatives
- Application to solve human problems; incentivisation
- Building capacity of various layers – individuals, SMEs, Industries,

Task 5: How would you achieve online safety, privacy, data protection and emergency response (10 minutes)

Your answer to include the following:

- What are the plans?
- Security standards
- Awareness creation
- Incident management and emergency response
- Privacy and data protection for citizens
- Curbing cyber crime and online violation
- Basic rights of citizens

Task 6: Prepare the summary of your report and recap your discussions among yourselves (10 minutes)