

Asia-Pacific Information Superhighway Master Plan Draft submission of Bangladesh

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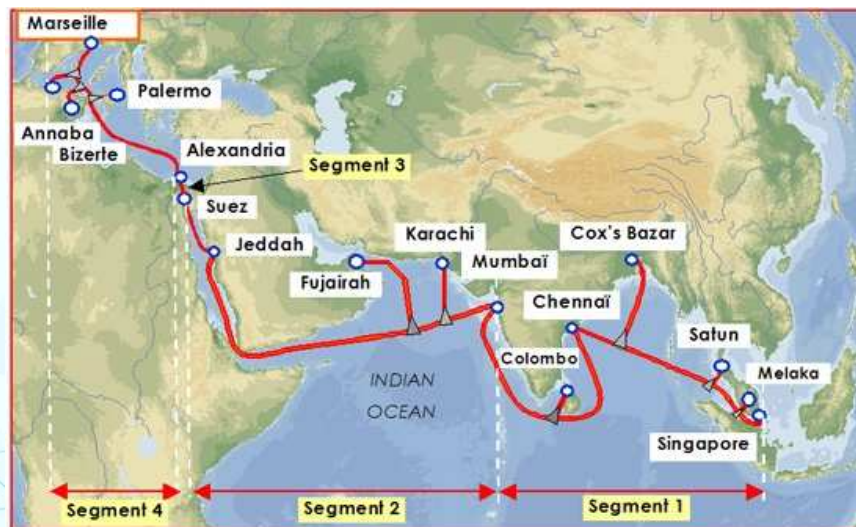


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International Connectivity

SEA-ME-WE-4
Connected 2004



SEA-ME-WE-5
connected 2017



6 Licensed ITC

- 1Asia Alliance Communication Ltd.
- Novocom Limited
- BD Link Communication Ltd.
- Mango Teleservices Ltd.
- Summit Communications Ltd.
- Fibre@Home Limited.



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Domestic Fiber and Transmission Network

Ogranizaion	Area	Description
BTCL	District	1750km optical fiber
	Union	8000km in 1000 union 8900km 290 union
DoICT	National and District	Planned to establish 21-Colocation facility for IIG, ISP, BWA, NIX and CDN with Diamond ring DWDM transmission network of 100g IP capacity
PGCB	Country wide	4300km fiber optic and planning to setup transmission POPs
BCC	District	Implementing Transmission Network of 100G District-to-District and 10G Upazilla-to-Upazilla
	Union Level	Implementing 2600 union optical fiber lay 19500km optical fiber
Bangladesh Railway	Countr wide	2421km Fiber
		380km ongoing and 575km planned
Fiber@Home	District	Have access to 33000km optical fiber
Summit	District	Have access to 30138km optical fiber



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Priority and challenges

- Minimize Bandwidth price disparity between Major cities and Rural areas for creating business case for ISPs outside dhaka and major cities.
- Slow broadband speed in rural areas
- Lack of content , specially Localized content
- Not enough skilled manpower
- Difficult to deploy underground fiber in metro and populated areas
- Inter government agecny co-ordination
- Optical fiber deployment in cross boarder area
- Lack of cost and quality regulations
- Up gradation of Broadband policy



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Opportunities

- Digital Friendly government and Digital Bangladesh Vision 2021
- Availability of nation wide fiber optic
- Surplus international bandwidth
- Population dividend and youth enthusiasm for ICT and ICT based careers
- High rate of mobile penetration
- High internet utilization growth rate
- Government manpower upto upazilla level for ICT operation and expansion



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Solutions and Actions

- Investment on solid infrastructure building up to union level
- Provide direct/indirect subsidy to lower the bandwidth cost outside major cities in Bangladesh
- Establish pops for IIG, ISP, NIX, BWA outside dhaka
- Capacity building and investment of localized content
- PPP initiatives for data center infrastructure and cloud services
- Establish Advanced computing centers for research, Promotion, implementation, Expansion of trending technologies and HPC for national use
- Establish Digital Literacy center for remote and ICT based education
- Initiatives to transform life and capacity in coastal areas with ICT solutions
- Regional cooperation for territorial connectivity and technical knowledge exchange
- Establish a coordination and knowledge center for ESCAP four pillars among member countries
- ICT infrastructure equipments and access device needs tax waiver facilities for encouragement
- Financial support for infrastructure investment from major financial institution nationally and internationally



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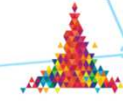


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Suggestions

- A Bandwidth Demand forecasting may be made for next 10 years for Asia Pacific Region.
- A policy can be formed to exchange Skills manpower within Asia Pacific Region.
- Asia-Pacific Information Superhighway broadband connectivity plan can be designed considering the existence of POI having co-location facilities in Bangladesh
- All the decisions should be executed with close monitoring of AP-IS steering committee members.
- There should be a policy and support that encourages local investors to build ICT infrastructure.
- Permanent secretariat in better co-ordination. Bangladesh can be good place for the establishment.



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Thanks