

Country Experience On Satellite Service Regulatory Framework



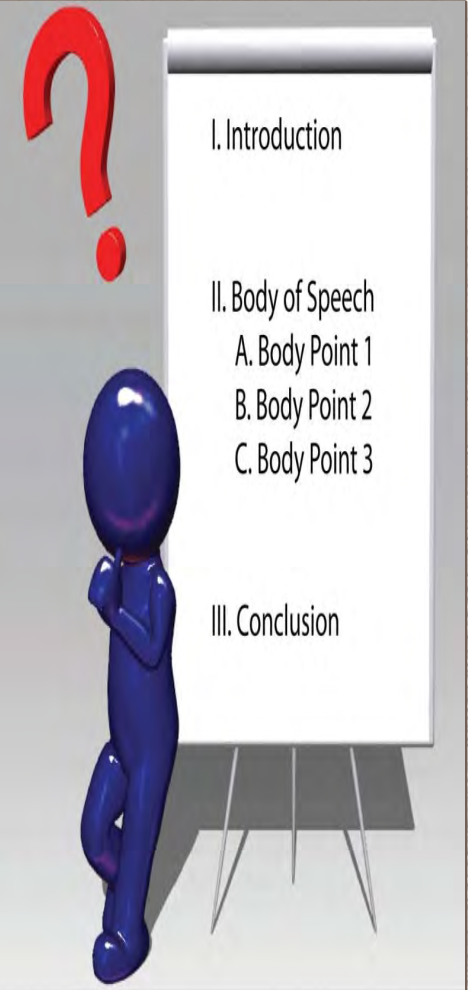
Danang City, Vietnam, 30 September, 2015



Bangladesh Telecommunication Regulatory Commission (BTRC)

Outline

- Brief about Participant
- Regulatory Framework-Overall
- Regulatory Framework-Broadcasting Services
- Regulatory Framework-Satellite Communication
- Initiative towards Launching of Satellite
- Summary of Preparatory Project
- Overview of Preparatory Project
- Summary of Satellite Launching Project
- Overview of Satellite Launching Project
- Baseline Characteristics of Proposed Satellite
- System Concept of Proposed Satellite-Big Picture
- Time Frame of Satellite-Target Launching
- Regulatory Framework-Orbital Slot Filing
- Policy and Regulation on Satellite Services
- Risks and Challenges



Brief about Participant

MD. ASADUZZAMAN

Senior Assistant Director

Bangladesh Telecommunication
Regulatory Commission(BTRC)

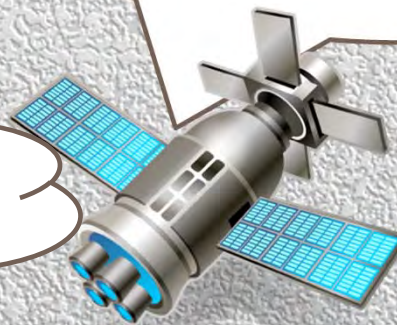
Currently working with this Vision
In Deputation From: Year 2009

Preparatory Functions and Supervision
in Launching a Communication and
Broadcasting Satellite Project

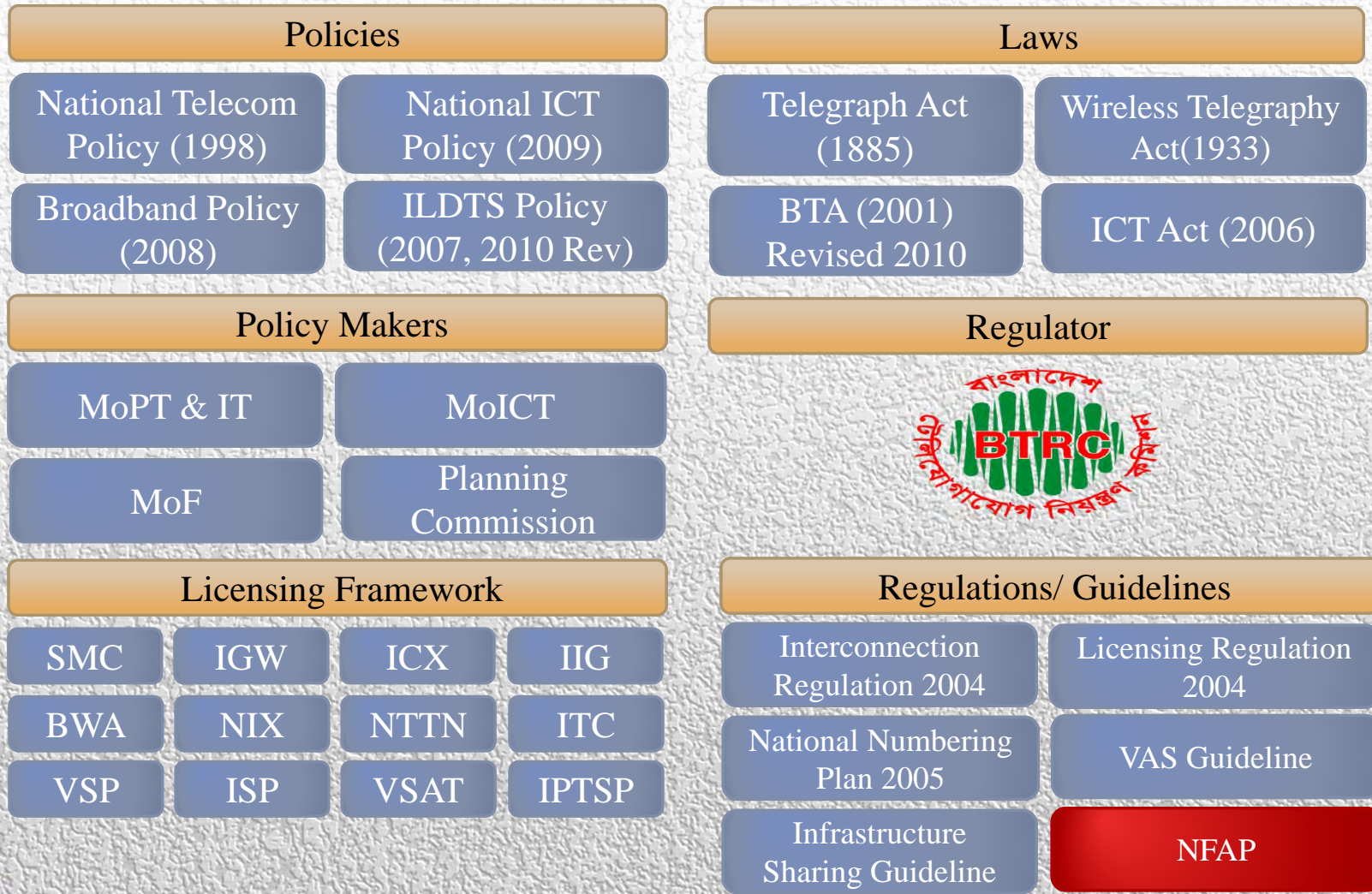


Bangabandhu Satellite Launching
Project

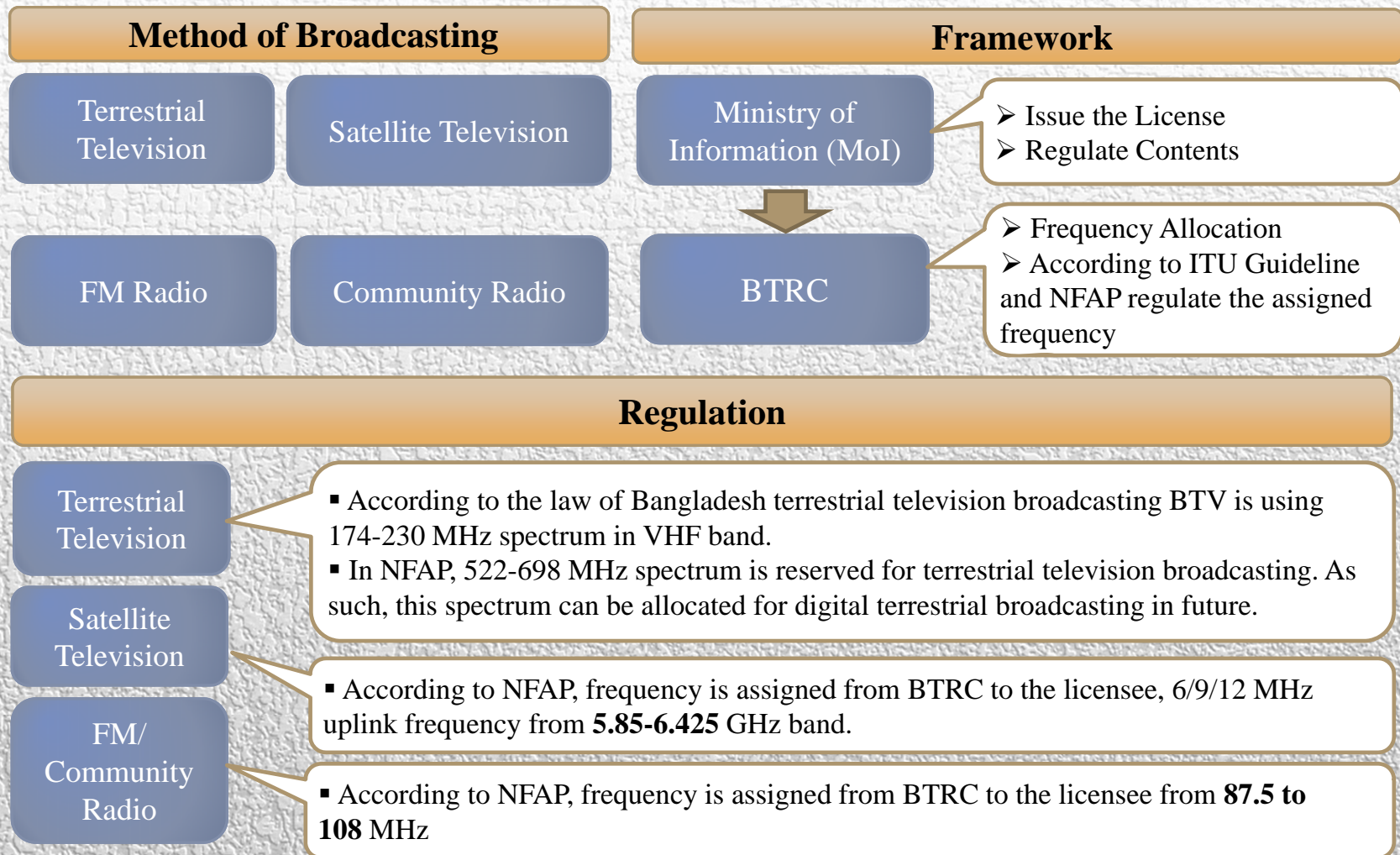
A vision to launch country's
first Satellite in the orbit.



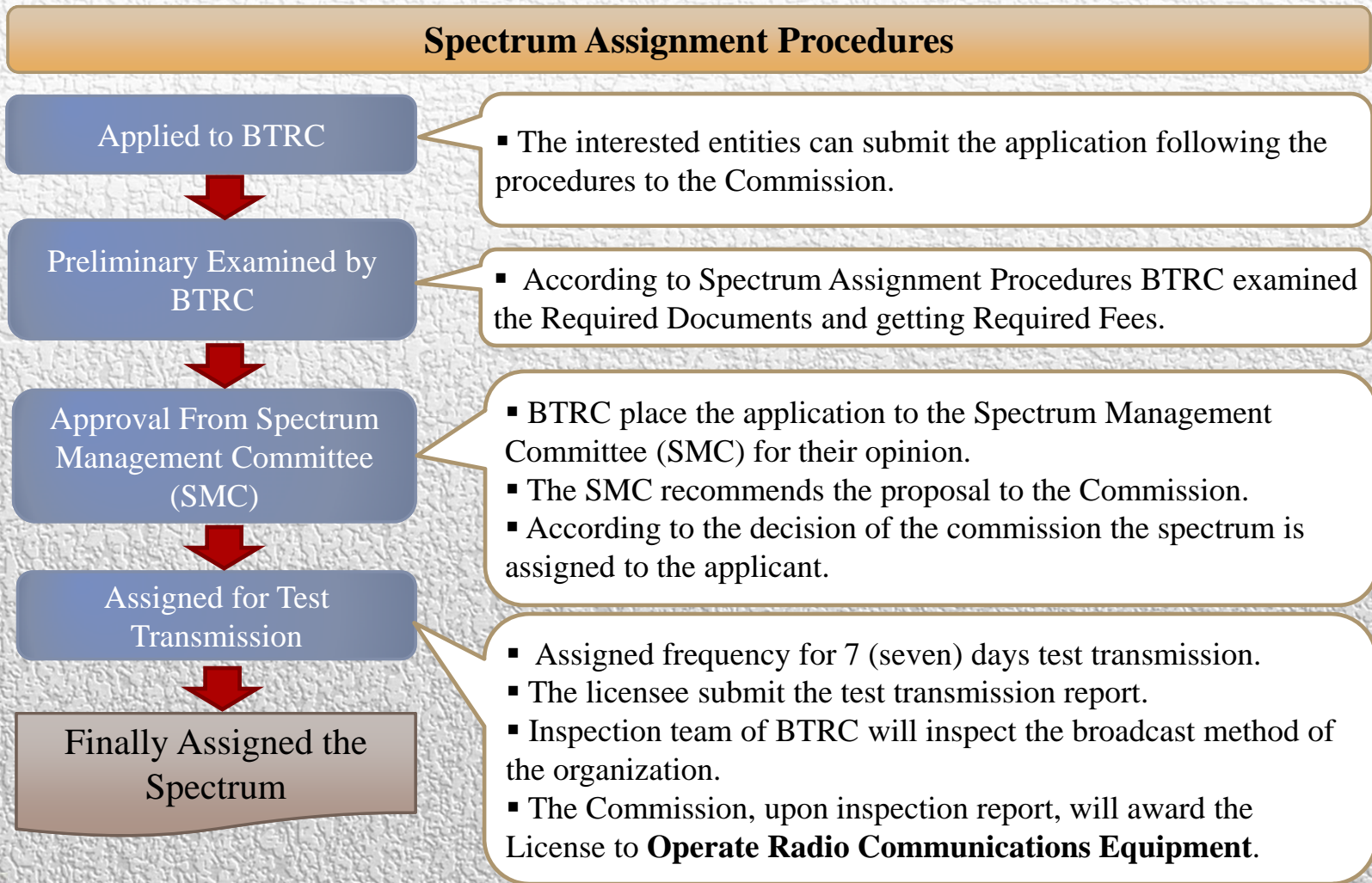
Regulatory Framework-Overall



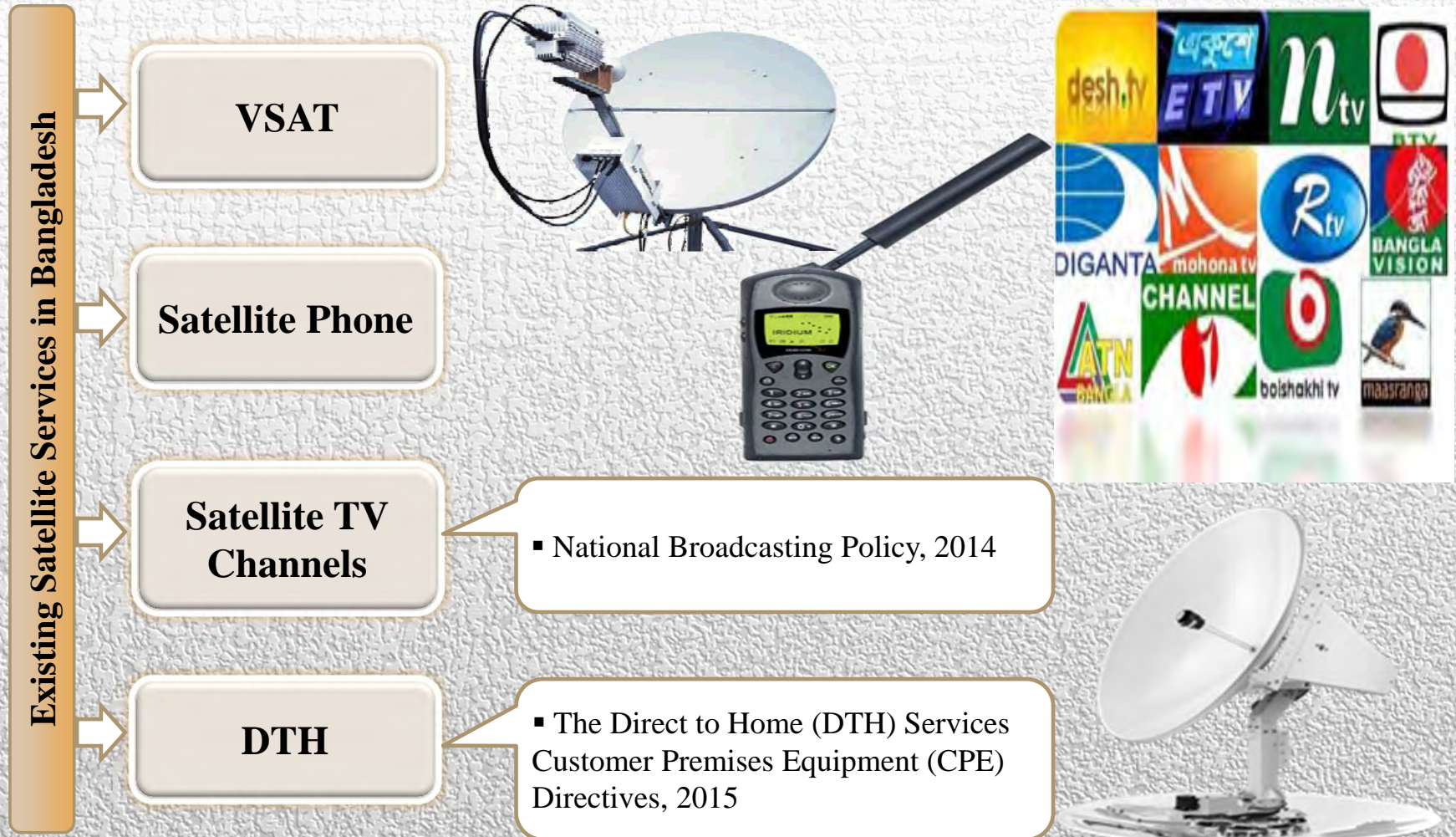
Regulatory Framework-Broadcasting Service



Regulatory Framework-Broadcasting Service



Regulatory Framework-Satellite Communication



Initiatives towards Launching of Satellite



Preparatory Functions and Supervision in Launching a Communication and Broadcasting Satellite Project

- Taking Consultancy Services and Overall Supervision of manufacturing towards launching of Satellite .
- Project Started from 2011 and End to 2018

Bangabandhu Satellite Launching Project

- Launching country's first ever communication and broadcasting satellite.
- Minimize digital divide by providing broadcasting and telecommunication services.
- Introduce profitable and promising new services including Direct to Home (DTH) throughout the country.

Summary of Preparatory Project



Overview of Preparatory Project

Major Tasks

- Getting Consultancy services from Foreign Consulting Firm
- Satellite System design
- Technical Specifications preparation for Satellite Design
- Tender document Preparation for Procuring Satellite System
- Overall Supervision to Manufacturing of the Satellite
- Technical monitoring during implementation till the IOT

Major works done

- Market Analysis and Feasibility Studies.
- Business Plan.
- Framework for implementing an 'Operating Company'.
- Preparation of tender documents along with technical specifications.
- Finalizing Orbital Slot at Intersputnik 119⁰E.
- Frequency Coordination is on going.
- Tender Floating through International Open Tendering Method

Summary of Satellite Launching Project

Project Title	<ul style="list-style-type: none">• Bangabandhu Satellite Launching Project
Project Status	<ul style="list-style-type: none">• Got Approval of the Government (Executive Committee for National Economic Council) on 16 September 2014
Project Cost	<ul style="list-style-type: none">• 380 million USD (approx)
Mode of Financing	<ul style="list-style-type: none">• 44% Government Own Fund• 56% Project Aid (Tenderer's / Bidder's Financing)
Main Component	<ul style="list-style-type: none">• Tender Floating for Satellite System Procurement• Forming a International Standard Operating Company

Overview of Satellite Launching Project

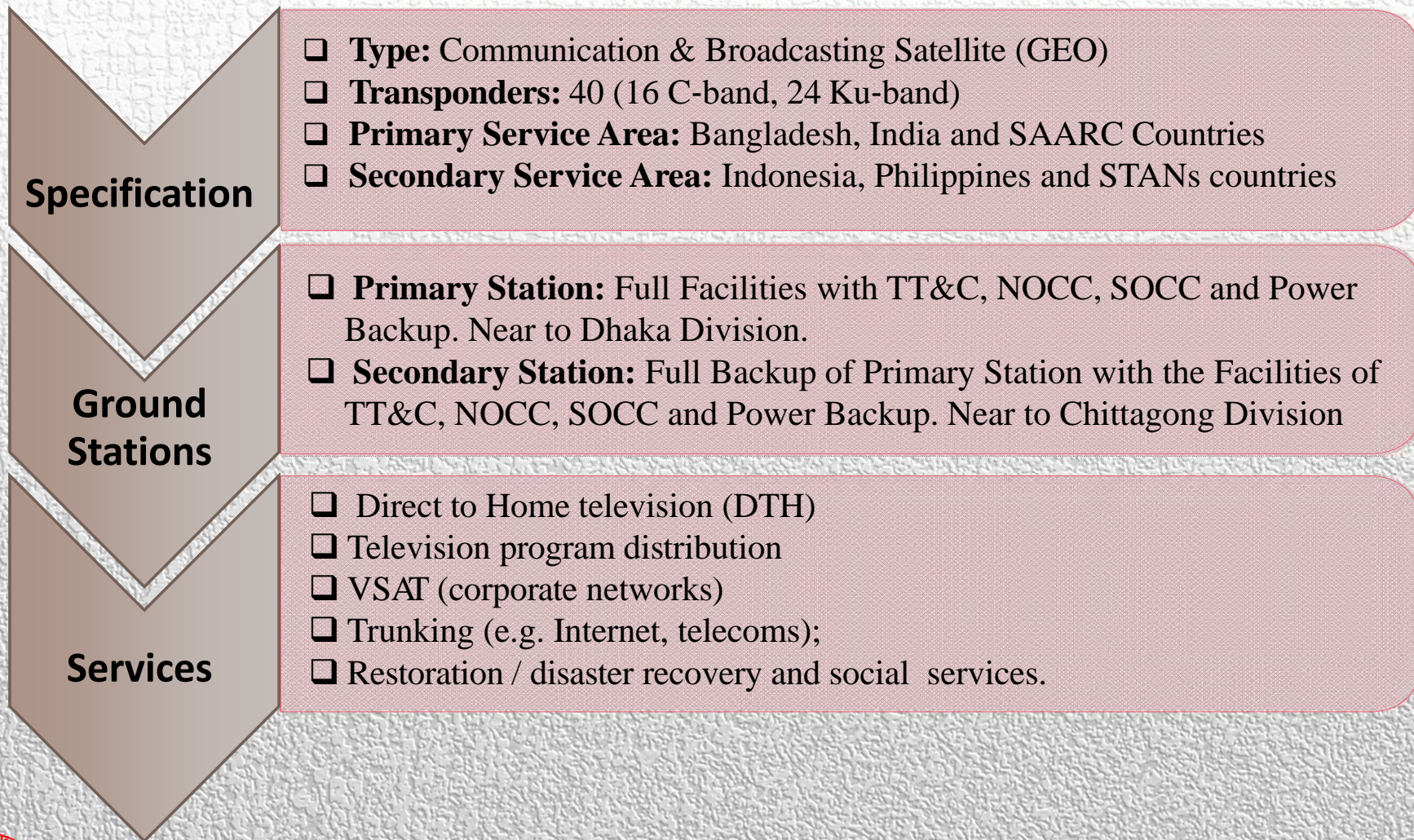
Major Tasks

- Manufacturing of Proposed Bangabandhu Satellite with 40 Transponder
- Monitoring and Testing in the time of Manufacturing
- Monitoring and Evaluation in the stage of Launching
- Launching the Satellite and Putting in Orbit
- In Orbit Testing and Monitoring
- Satellite Network Testing and Acceptance
- Ground Segment and associated facilities Preparation
- Ground Station Testing and Acceptance
- Insurance
- Set up of an institutional arrangement for operating the satellite systems

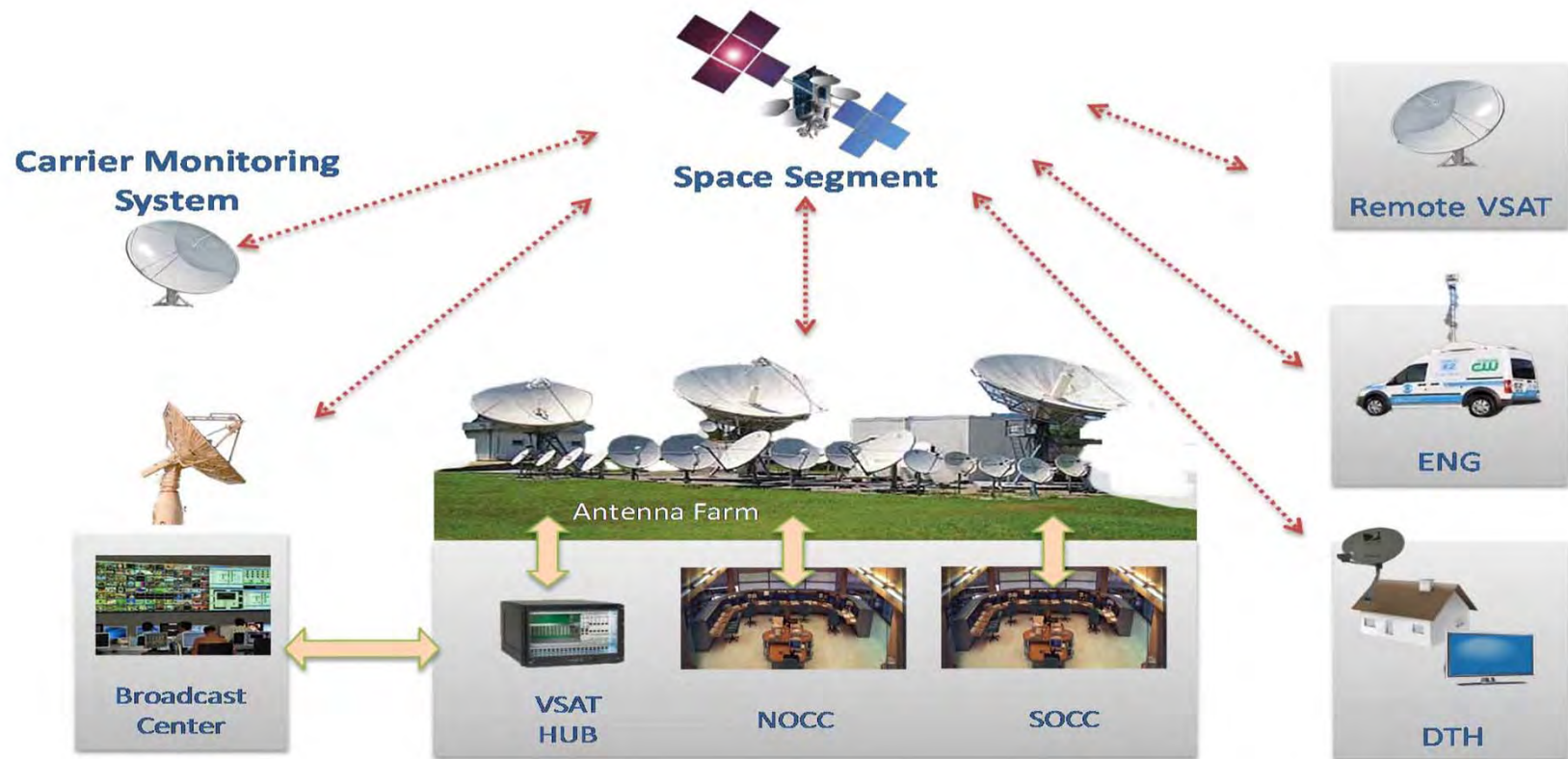
Major works done

- Floating RFP to Procure Satellite System through Open Tendering Method - End of 1st Q
- Evaluation Of the Submitted Tender Documents is On Going
- Hope to Sign the Contract with Prime Contractor within October, 2015

Baseline Characteristics of Proposed Satellite



System Concept of Proposed Satellite-Big Picture



Time Frame of Satellite-Target Launching

Each correlated to Bangladesh's

Bangabandhu Satellite Program



Regulatory Framework-Orbital Slot Filing

Slot	Frequency Band	Filing information	Coordination Status
102 E	C-band, C-band (Planned), Ku-band, Ku-Band (planned) and X-band filing	BDSAT-102 E November, 2010 BRIFIC 2690/22.03.2011 Modified filling: November 2012 BRIFIC No 2732/13.11.2012	Comments received, responded for Coordination
69 E	C-band (Planned), Ku- band (planned) Filing	BANGSAT-30B-69E-B June2012 BRIFIC 2722/26.06.2012	Comments received, responded for Coordination

Regulatory Framework-Orbital Slot Filing

Slot	Frequency Band	Filing information	Coordination Status
74 E	Allotment: BSS Modified : BSS Extended	BANGSAT-74E-A (BSS Planned) BANGSAT-74E-B, Extended BR IFIC 2757	Comments received, responded for Coordination
133 E	Allotment: FSS	BANGSAT-30B-133E-A BR IFIC 2737 BANGSAT-30B-133E-B BRIFIC 2737/5-2-13	comments received, responded for Coordination

Policy and Regulation on Satellite Services



Risk and Challenges

Risk

- Maintaining the BIU date Consistent with Bidders Offer
- Failure to meet the launch schedule
- Launch failure
- Regulation/Policy Re-framing.



Challenges

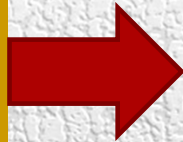
- Formation of an International Standard Satellite Operating Company
- Effective Regulatory Framework
- Re-assignment of spectrum for satellite Services
- Landing Rights and successful coordination
- Facilities for Ground Stations
- Achieving the targets as per business plan



Expectation of Achievement

The revolution that is taking place in Bangladesh is in conformity with the Millenium Development Goal

Target to Achieve by
2015



- ▶ Signing With Selected Bidders
- ▶ Finalizing DTH Guideline
- ▶ Finalizing Landing Right Policy
- ▶ Successful Completion the Coordination of 119E
- ▶ Completing The Preliminary work on Company Formation

Make Telecom sector the largest revenue earner and contributor to GDP

Make Bangladesh a den of peace and prosperity



Requests

Bangladesh elected as Council Member of ITU for 2011-2014 and Also 2015-2018

Supporting the role of ITU in guiding World Telecom & ICT Sector to its desired destination

Need More Collaboration and Cooperation From ITU Member Countries in the Field of Satellite Communication And Broadcasting Services

Q and A

Thank You



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