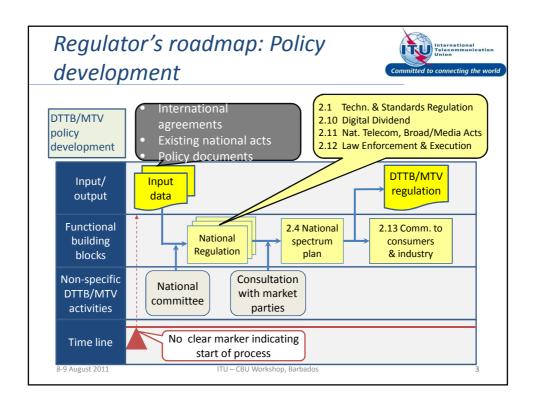
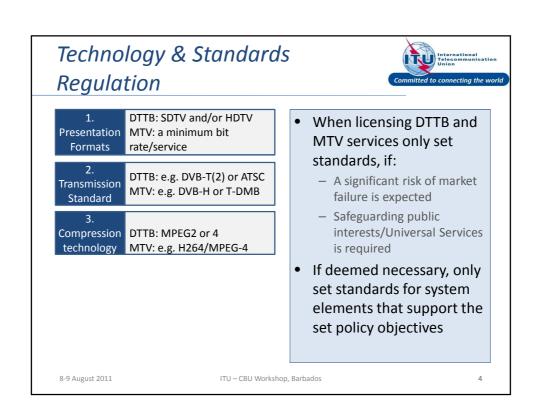


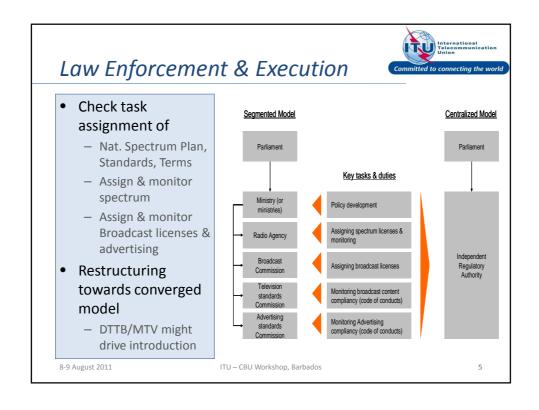
Policy & Regulation • Key issues and choices faced by the Regulator when formulating DTTB, MTV or ASO policy objectives • Implementation of policies - By issuing information, funds, rights, licenses and permits to (qualified) market parties - In compliance with the relevant legislation • Functional building blocks related to Policy & Regulation • Conclusions

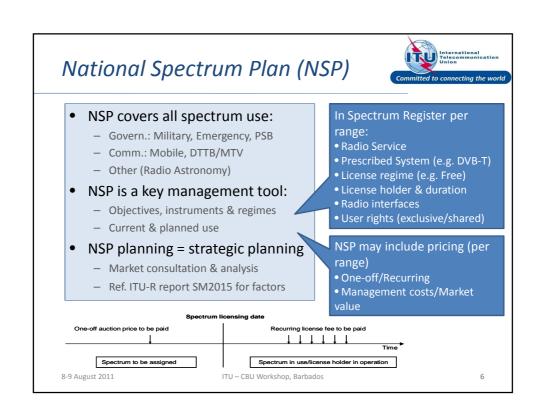
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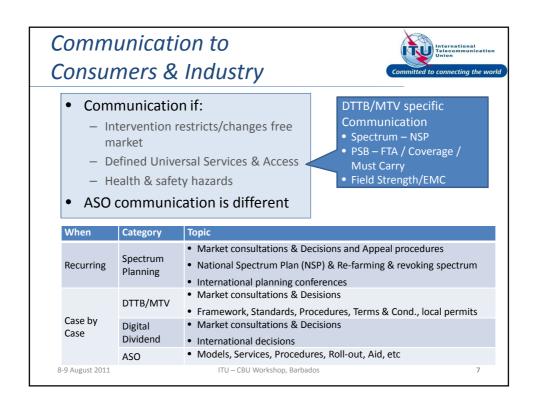
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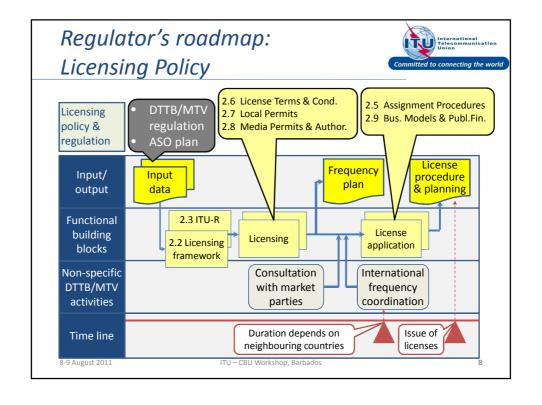


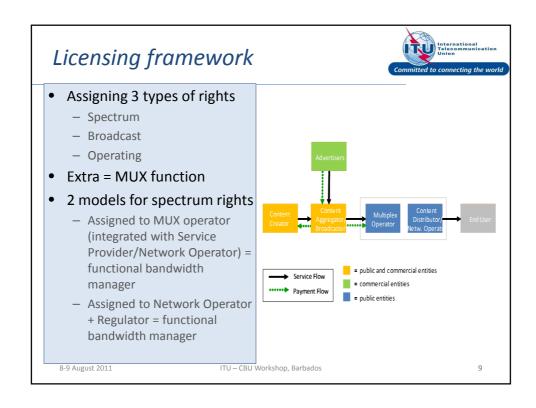


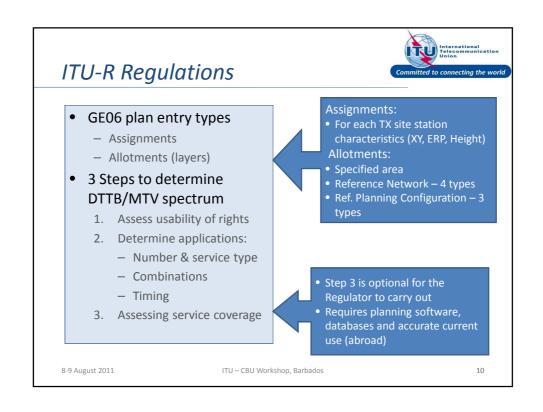




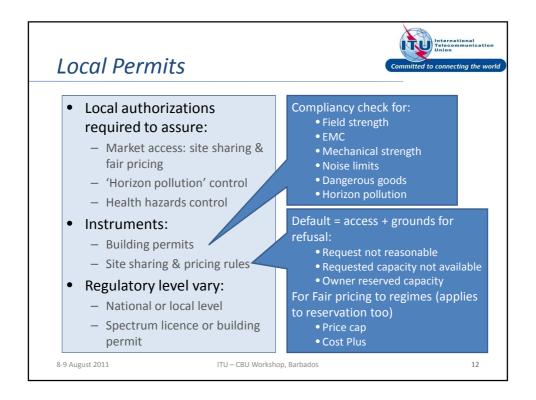








License Terms & Conditions • T&C dependent on local Legal basis & definitions 1. Granting situation: Frequencies, Interference, Health, 2. Rights equipment Existing (int.) legal framework TV package, roll-out, service levels, 3. Obligations Assignment procedure site sharing Market structure Transferring spectrum rights to 4. Exercise subsidiaries or third parties **Assign transparent** Trading & sharing (parts of) 5. Trading Publishing 'essential' & other spectrum rights criteria upfront 6.Standards Interoperability & standards Grounds for exclusion Fees for spectrum management or • Open Network Provisioning 7. Fees market value (ONP) when 1 MUX operator 8. Duration Duration, renewal & extensions - Grounds for refusing Modifications, revocation & 9. Changes Max capacity/broadcaster termination - (Fair) Pricing & Reservations Public complaints & resolving 10. Complaints (programming & interference) 8-9 August 2011



Media Permits & Authorizations



- Keep separate broadcast rights for:
 - PSB: separate section or Act (Universal Service)
 - Commercial Broadcasters:
 Media/Broadcast Act
- Broadcast rights organized at:
 - Program level/linear broadcast stream
 - Platform level/multiplex level
- Different requirements for granting:
 - Applicant (legal status, ownership)
 - Program Services (editorial & ads)
 - Additional Services (EPG, subtitling)

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Instrument

Content Service criteria:

- Local news coverage
- Arts, religious programs
- Number of repeats
- % local production
- Max hours of advertising

Service obligations:

- Portfolio/bouquet
- Must carry & Pricing
- PSB carry
- Population coverage
- Bandwidth per service
- Network availability

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Assignment Procedures



- Three key instruments:
 - First Come First Service (FCFS)
 - Public Tender (PT)
 - Auction (don't mix with PT or market priced license fees)
- Combine MTV & DTTB assignments:
 - One bidding round
 - One license type
- Existing license holders:
 - PSB: by priority
 - Others: renewal

FCFS	FastSimple	No spectrum efficiency
Public Tender	 Focus on quality Thorough procedure Regulatory control 	 Time consuming Not transparant
Auction	 Allocation efficiency Simple Transparent Returns economic value 	 Less control over end result Investment slow down Winners Curse

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Conclusions Policy & Regulation



- Policy & Regulation for ASO and DTTB/MTV assignment can differ and coexist
 - ASO: services (& levels) are Government led
 - DTTB/MTV assigments: services (& levels) are market led
- Roadmap of the functional building blocks can vary from country to country
 - Local situation
 - Institutional/legal framework
- Functional building blocks are closely related
 - Roadmap execution is an iterative process

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