Regional Workshop and Frequency Coordination meeting on the Transition to Digital Terrestrial Television and the Digital Dividend 21-26 May 2012 Bridgetown, Barbados

A Frequency Plan for Caribbean region

An Approach

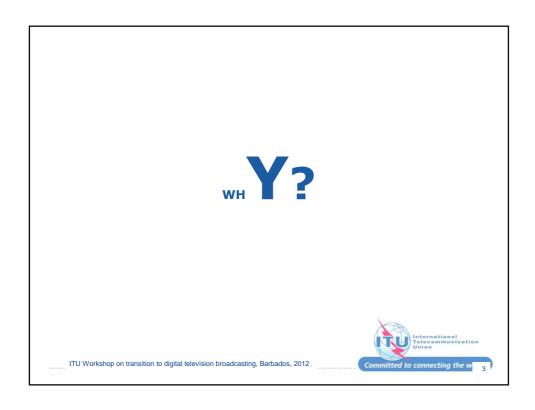
Pham Nhu Hai Radiocommunication Bureau

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UHDTV

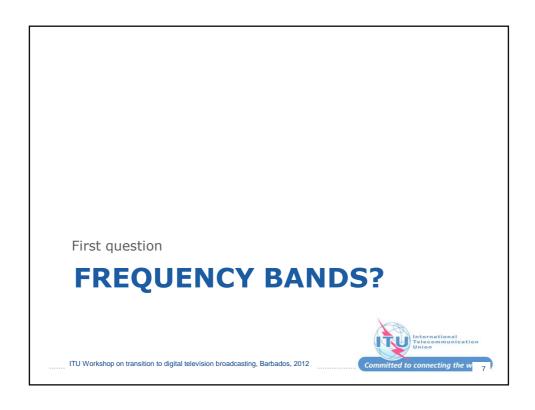


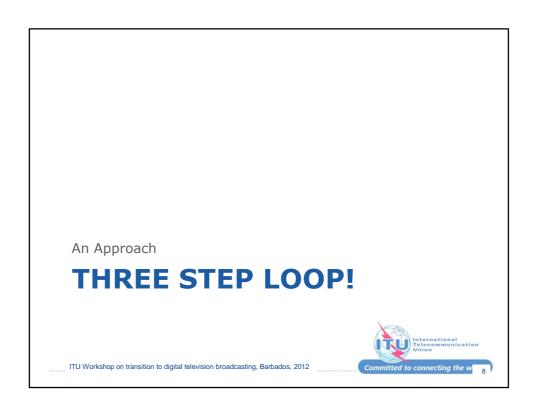




Efficient use of spectrum ITU Workshop on transition to digital television broadcasting, Barbados, 2012 Committed to connecting the w 5







1. Input Data

- Existing digital assignments
- Digital future requirements
 - >Site
 - ➤ Coverage (ERP, antenna pattern)
 - **≻**Polarization



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2. Compatibility Tables

	TX1	TX2	TX3	TX4
TX1	=			
TX2	X	-		
TX3			-	
TX4	X		X	-



Planning Parameters

- Propagation models
 - >% of location
 - >% of time
- Protection ratios
- Receiving antenna characteristics
 - >Antenna discrimination



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Frequency Blocks!

- Different bandwidths
- Advantages
 - ➤ Similar coverage
 - ➤ Shared Tx antenna system
 - ➤ One receiving antenna
 - ➤ White space?



3. Distribute Blocks

- Take into account existing assignments
- Based on compatibility tables

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Congratulations!

GO BACK TO STEP 1!



Caribbean region

- Trinidad Venezuela
- Guyana Suriname
- Eastern Islands group
- Jamaican Haiti Cuba

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WAY FORWARDS

LET'S DISCUSS!



Next steps?

- SharePoint site to share information, technical papers?
- Missing planning parameters?
- More studies on the block approach?
- Etc...

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Thank you for your attention!



