
Gaborone
Last Mile Project
WSIS Action Line C2
INFRASTUCTURE
István Bozsóki
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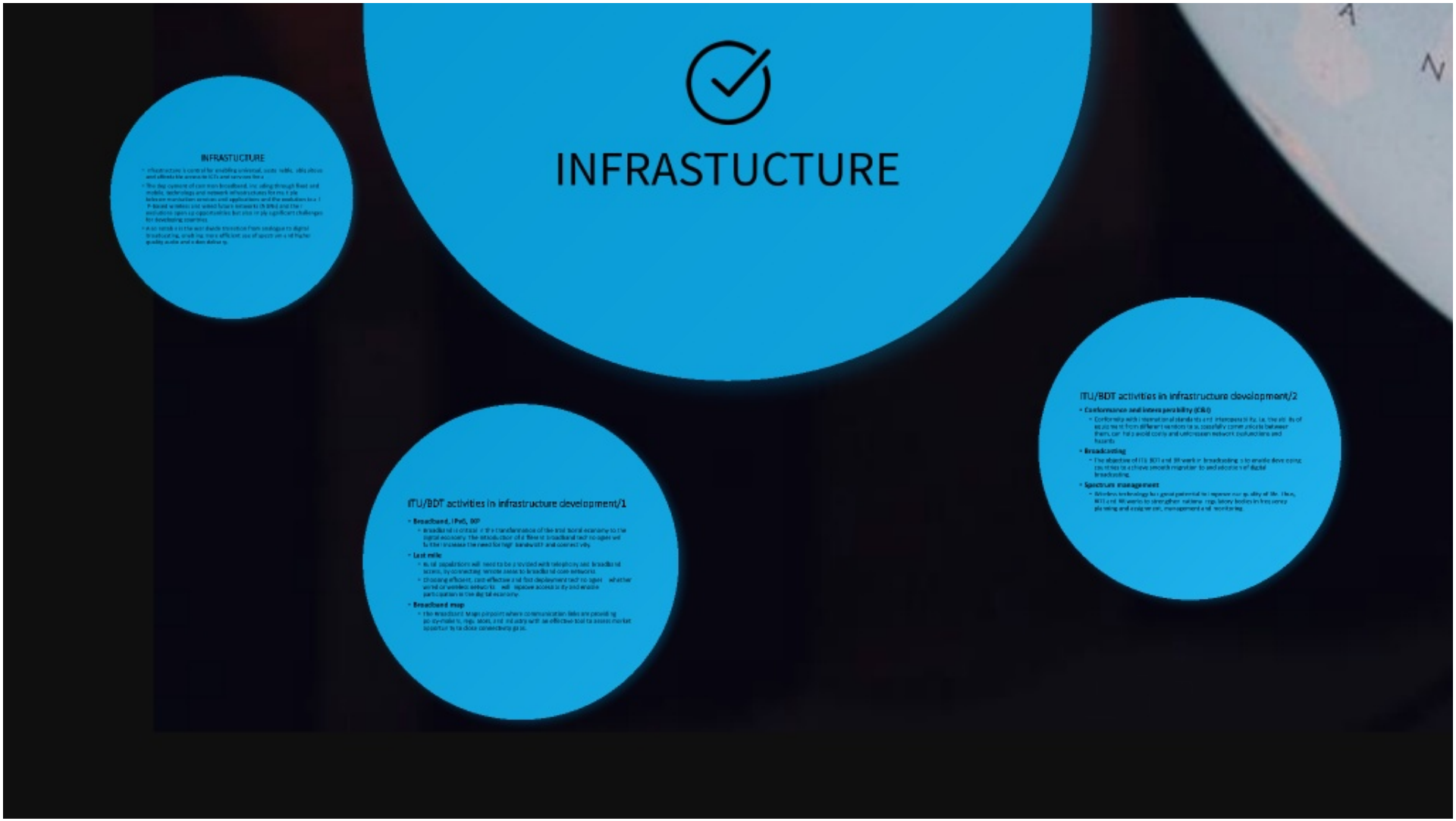
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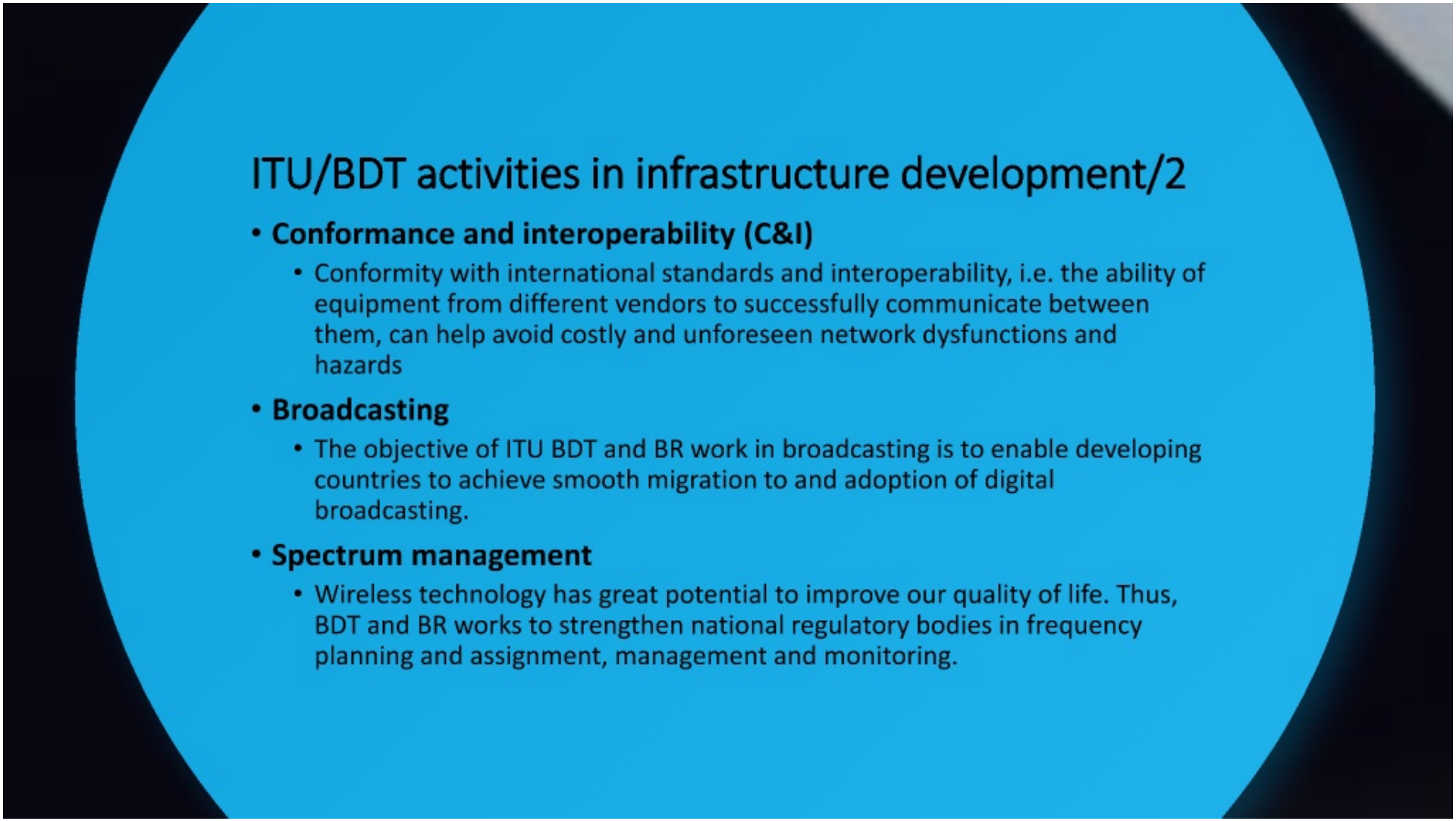
ITU/BDT activities in infrastructure development/1
ITU/BDT activities in infrastructure development/2

INFRASTUCTURE

- Infrastructure is central for enabling universal, sustainable, ubiquitous and affordable access to ICTs and services for all.
- The deployment of common broadband, including through fixed and mobile, technology and network infrastructures for multiple telecommunication services and applications and the evolution to all IP-based wireless and wired future networks (NGNs) and their evolutions open up opportunities but also imply significant challenges for developing countries.
- Also notable is the worldwide transition from analogue to digital broadcasting, enabling more efficient use of spectrum and higher quality audio and video delivery.


ITU/BDT activities in infrastructure development/2
• Conformance and interoperability (C&I)
• Conformity with international standards and interoperability, i.e. the ability of equipment from different vendors to successfully communicate between them, can help avoid costly and unforeseen network dysfunctions and hazards
• Broadcasting
• The objective of ITU BDT and BR work in broadcasting is to enable developing countries to achieve smooth migration to and adoption of digital broadcasting.
• Spectrum management
• Wireless technology has great potential to improve our quality of life. Thus, BDT and BR works to strengthen national regulatory bodies in frequency planning and assignment, management and monitoring.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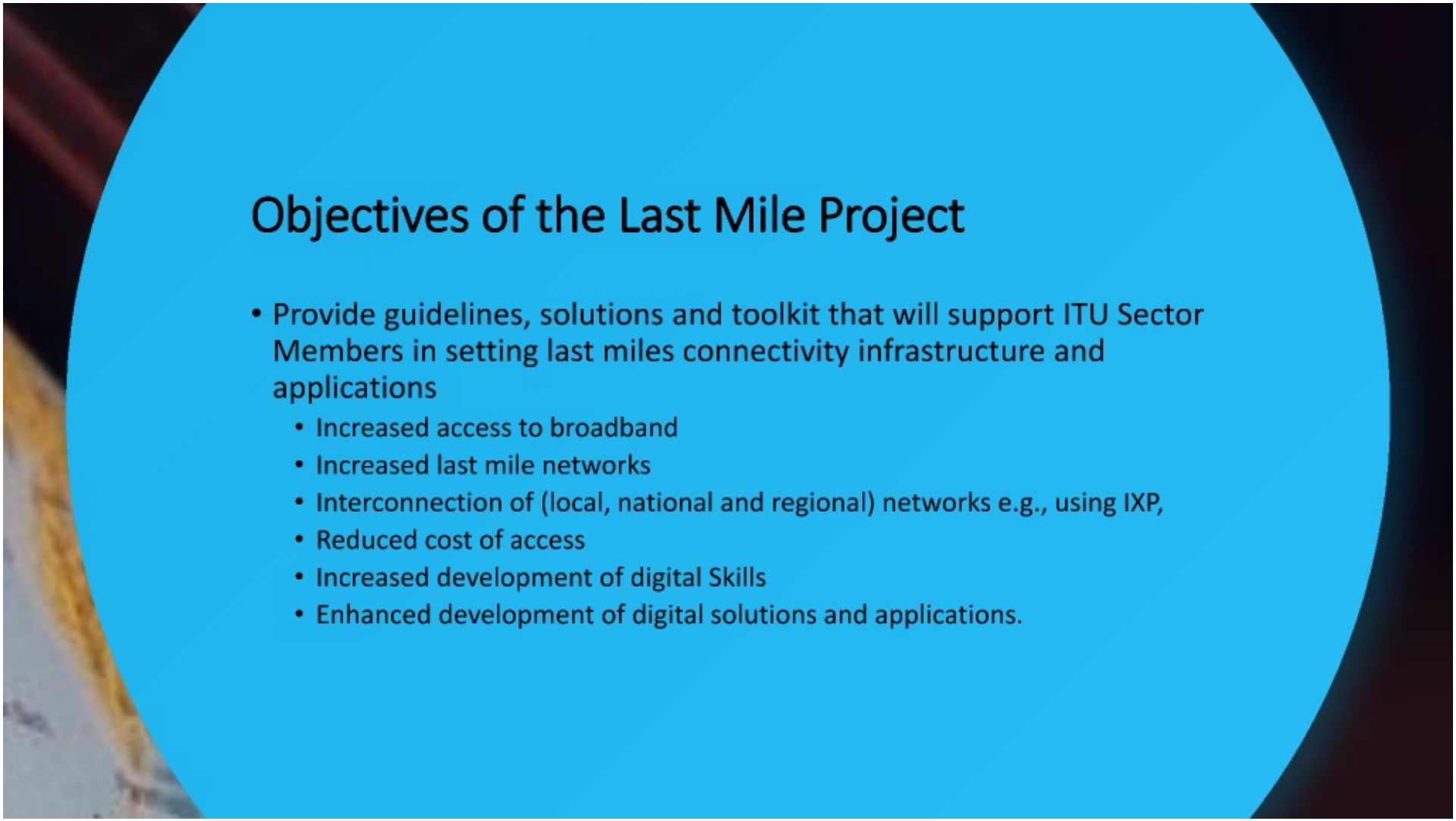
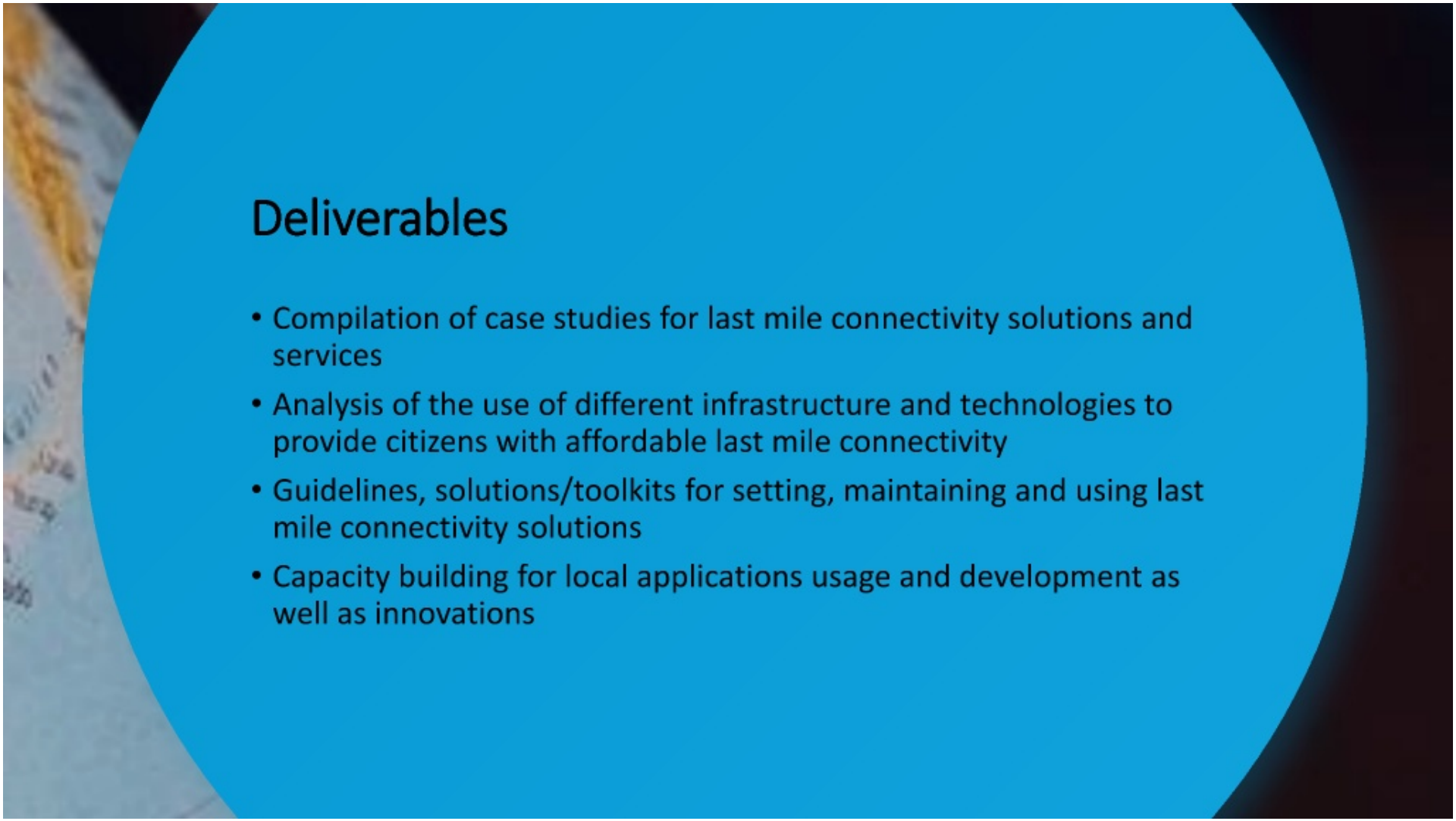
Last Mile Project
Objectives of the Last Mile Project
Deliverables
• Compilation of case studies for last mile connectivity solutions and services
• Analysis of the use of different infrastructure and technologies to provide citizens with affordable last mile connectivity
• Guidelines, solutions/toolkits for setting, maintaining and using last mile connectivity solutions
• Capacity building for local applications usage and development as well as innovations
Implementation
Part 1: Case Studies
Part 2: Guidelines/Toolkit for increasing last mile connectivity


Objectives of the Last Mile Project
• Provide guidelines, solutions and toolkit that will support ITU Sector Members in setting last miles connectivity infrastructure and applications
• Increased access to broadband
• Increased last mile networks
• Interconnection of (local, national and regional) networks e.g., using IXP,
• Reduced cost of access
• Increased development of digital Skills
• Enhanced development of digital solutions and applications.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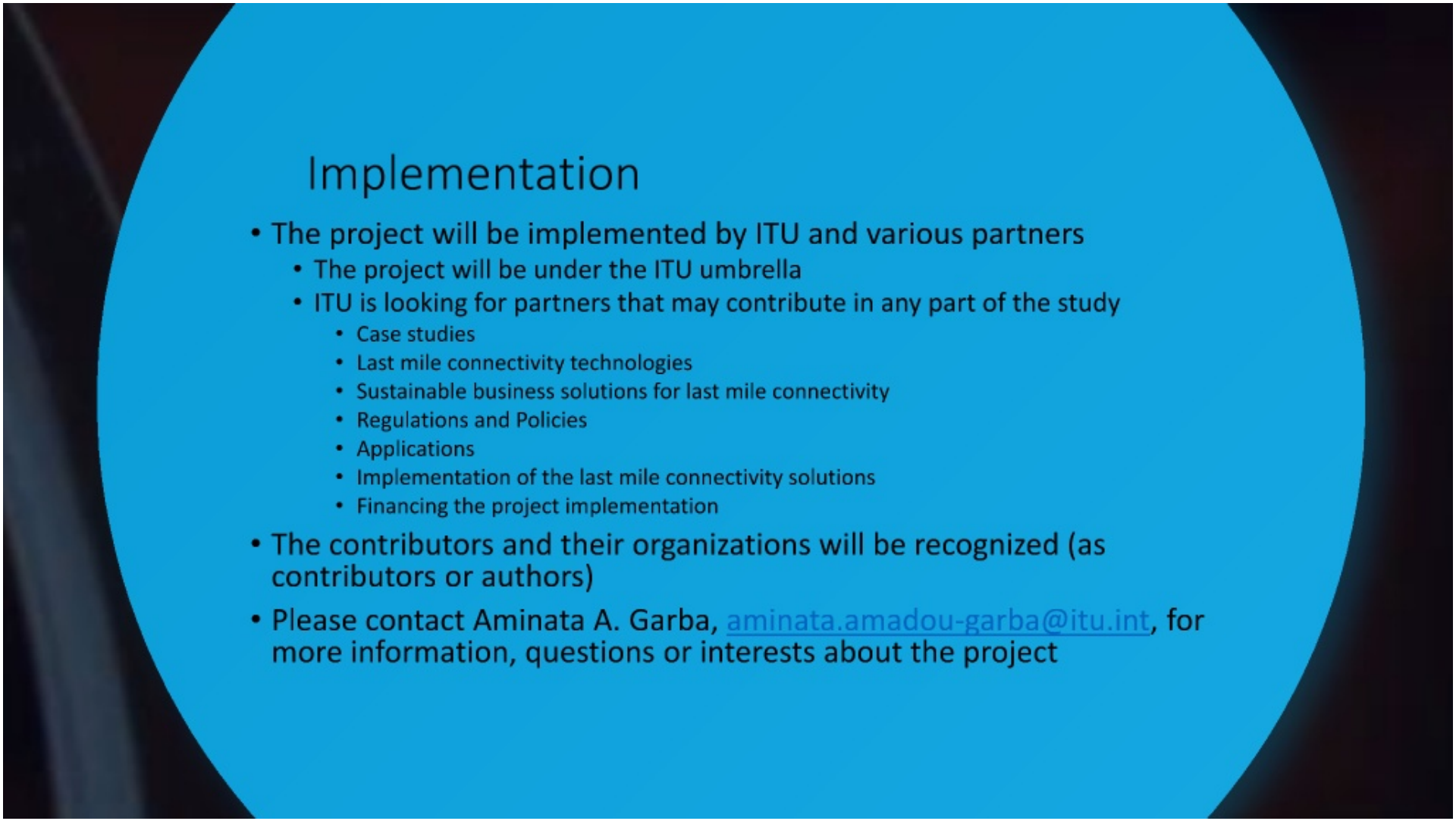
Implementation
• The project will be implemented by ITU and various partners
• The project will be under the ITU umbrella
• ITU is looking for partners that may contribute in any part of the study
• Case studies
• Last mile connectivity technologies
• Sustainable business solutions for last mile connectivity
• Regulations and Policies
• Applications
• Implementation of the last mile connectivity solutions
• Financing the project implementation
• The contributors and their organizations will be recognized (as contributors or authors)
• Please contact Aminata A. Garba, aminata.amadou-garba@itu.int, for more information, questions or interests about the project

Part 1: Case Studies

1. Overview of (existing and potential) solutions for last mile connectivity in rural areas
   - Community networks,
   - Wi-Fi, Mesh network, or other LAN/MAN in unserved areas
   - Others e.g., White spaces
2. Overview of services that could be offered using last mile connectivity in rural areas
   - Local data generation and hosting
   - Local IoT applications using the networks, e.g., e-agriculture, e-healthcare, e-education, water/flood management, energy management,
   - Local E-governance, etc.
   - Distance learning
3. Case studies of deployed solutions for last mile connectivity in rural areas (include but not limited to community networks)
   - Compilation and Analysis of existing deployed solutions (location, size, background, evolution)
   - Tutorials on the technical aspects including the spectrum use
   - Compilation and Analysis of the used business model
   - Proposals of the applications and services
   - Design of a comparative model
4. Data analysis and discussion
   - Collect and analyze existing data on last mile connectivity in different regions

Part 2: Guidelines/Toolkit for increasing last mile connectivity

- Technical solutions:
  - Creating and maintaining the networks (for each solution, a step by step directives)
  - Interconnecting the networks
- Applications
  - Creating local applications
  - Creating and managing local data with e-community
- Regulations and Policy
  - Regulatory environment
  - Accessibility of the network (cost, devices)
- Spectrum considerations
- Business models and financing the last mile connectivity solutions
- Capacity building

Part 3 includes country assistance in implementing the identified solutions


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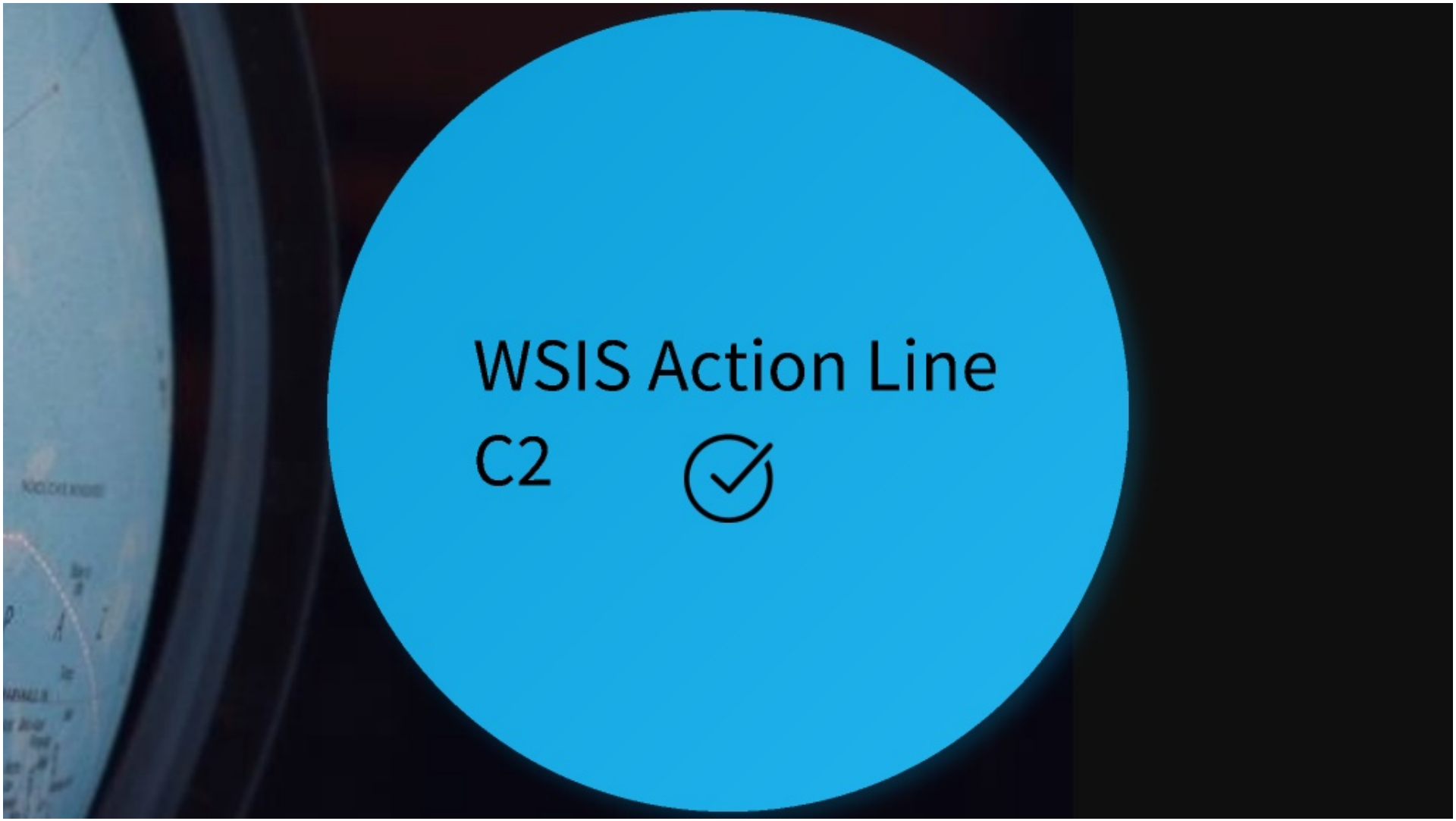
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Thank You !
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