



Securing 5G Technologies across Commonwealth Countries

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5G Huddle 2016

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London

About the CTO

- **The oldest and largest Commonwealth intergovernmental organisation in ICTs**
- **Created in 1901 with the establishment of the Pacific Cable Board**
- **Intergovernmental treaty organisation since 1967**
- **Diverse membership spanning developed and least developed countries, small island developing states, the private sector and civil society**

Membership

- Full Member Countries
- Affiliate Member Countries
- ICT Sector Members
- Academia

Services

- Technical support and consultancy
- Capacity development
- Events



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The CTO @ 115 Years



The Commonwealth

- 53 countries and 2.1 billion people
- Bound by common values at <http://thecommonwealth.org/our-charter>
- Consensus-based decision making
- Shared goals of democracy and development
- An array of specialised organisations



Vision and Mission



Vision

A trusted partner for sustainable development for all through ICTs

Mission

To provide result-oriented ICT leadership in the Commonwealth and beyond



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Strategic Goals 2016 - 2020

- 1. Enhance the value of the CTO membership and expand the CTO's membership base**
- 2. Promote enabling regulatory environments**
- 3. Promote affordable universal and high-quality broadband connectivity**
- 4. Promote a culture of cybersecurity and effective cyber governance**
- 5. Promote the development and use of ICT applications for socio-economic development**
- 6. Ensure effective coordination of Commonwealth countries at international ICT conferences and meeting**



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Commonwealth Coordination by the CTO

ICT Ministers' mandate (2014; 2016+)



WRC-15
WTSA-16, etc



CIGF



CGAC



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Cybersecurity – A Key Priority



COMMONWEALTH CYBERSECURITY FORUM 2016

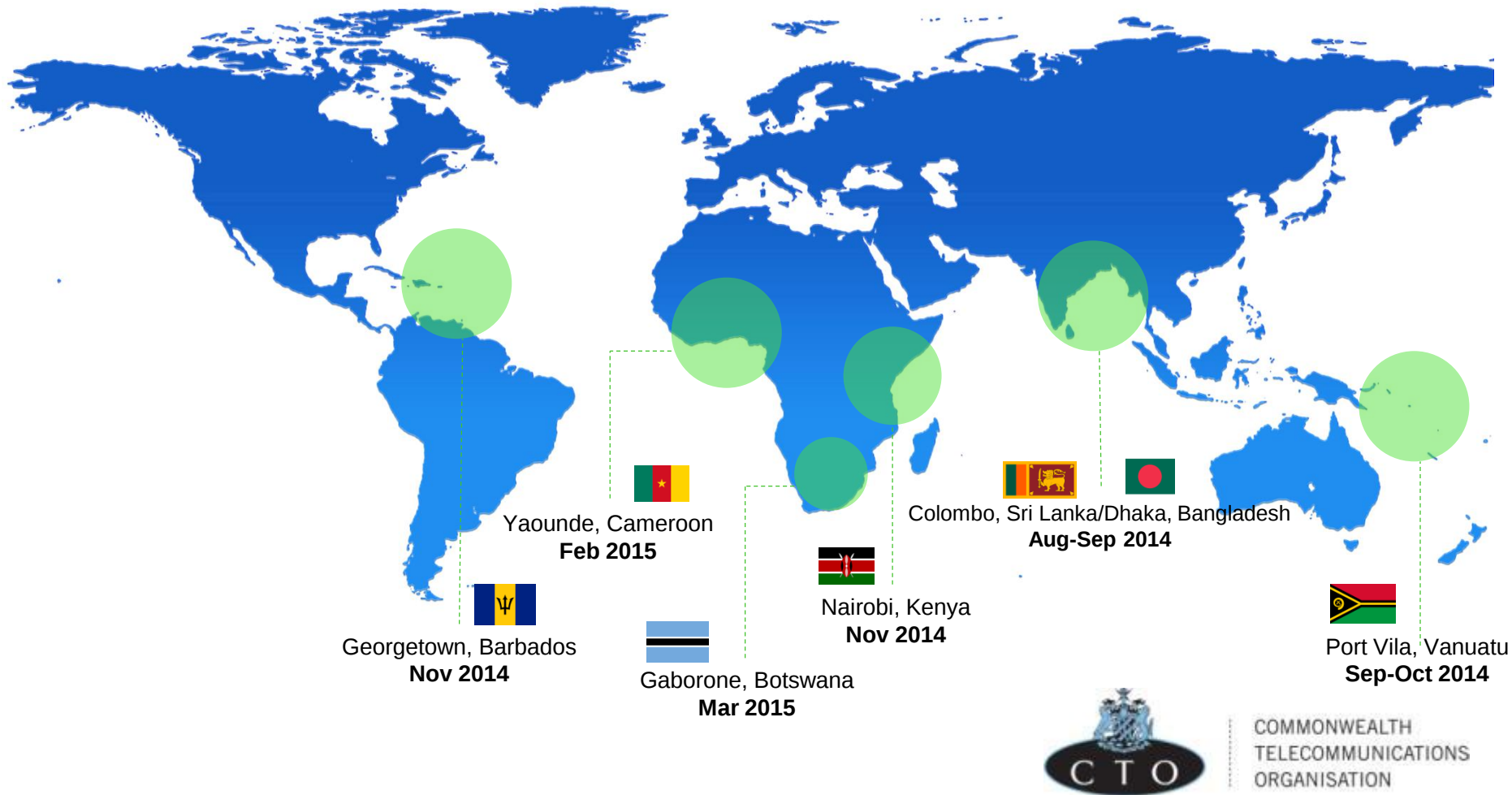
23 - 24 MARCH 2016, **BT TOWER**, LONDON, UK



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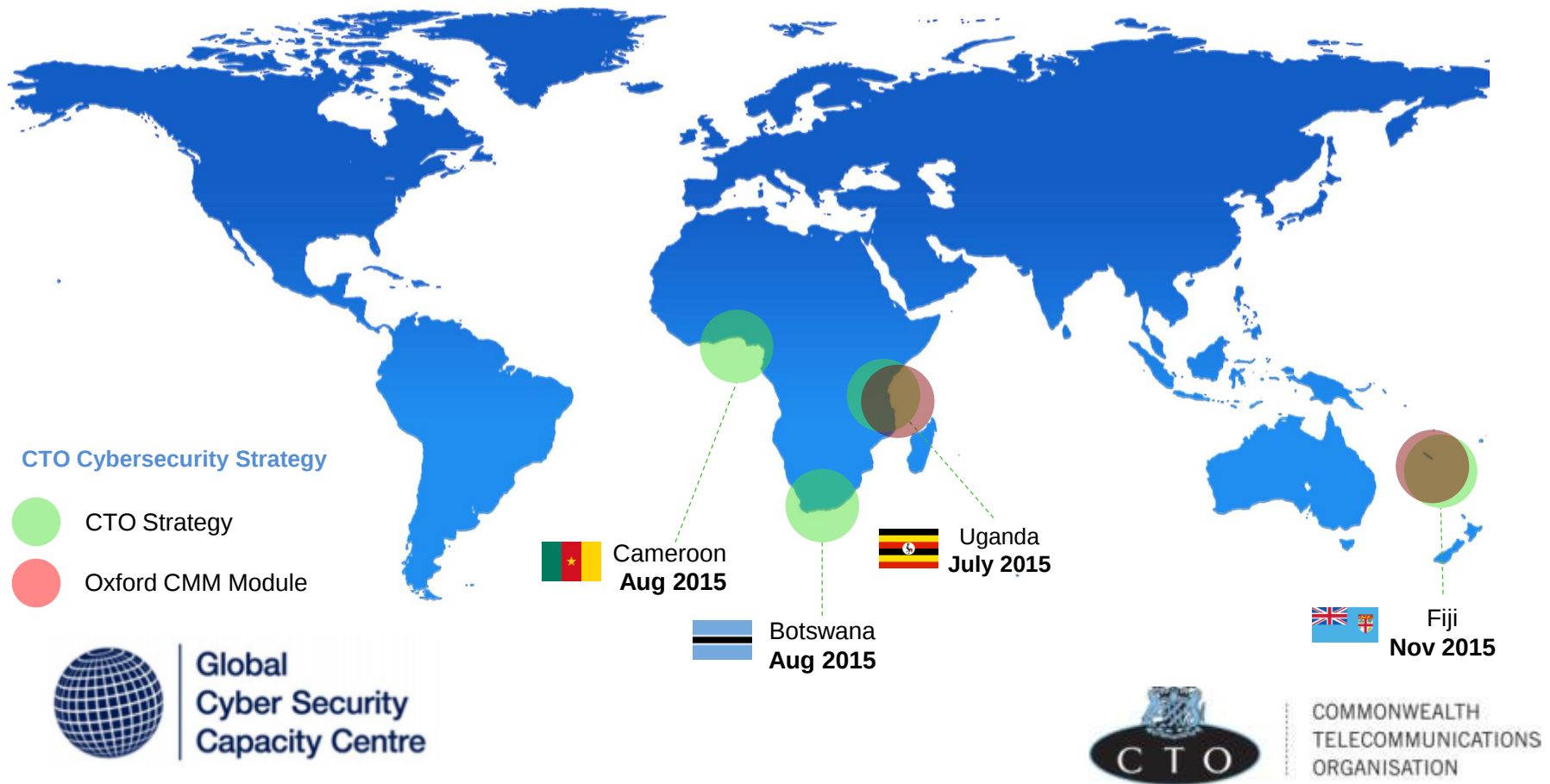
CIIP Workshops & Cybersecurity Model

7 regional cybersecurity workshops



Ongoing Cybersecurity Strategy Projects

Developing cybersecurity strategies for Ug, Cm, Bw & Fj



5G and Cybersecurity Challenges | The Environment

- **Stakeholders**

- Ministries of PT&Ts, Offices of the President, etc
- Telecom regulators, national security offices, defence, IT agencies (CERT, PKI)

- **Stakes and challenges**

- Human capacity (network technology, judiciary, etc)
- Funding

- **Processes**

- Stakeholder consultations
- Parliamentary reviews, etc

- **Output**

- Cybersecurity models, policies, strategies, plans, etc
- Digital economy strategies (e/m-banking, e/m-commerce, etc)



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5G Challenges | Infrastructure

- Most countries still developing 3G & 4G infrastructure
- Economies of scale might not support 5G application in some of the small island states
- Lack of investment and other competing priority projects (roads, health etc)



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5G Challenges | Communication, Navigation & Sensing

- Services largely depend on availability of spectrum
- Spectrum management is still a challenge in the developing countries
- Vacating of broadcast services in the 700/800 MHz for mobile broadband



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5G Challenges | Security & Privacy

- Lack of awareness and preparedness of 5G security challenges
- Limited technical expertise to understand and mitigate 5G security threats
- Inadequate mechanisms to protect consumer data and privacy



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5G Challenges | Policy, Legislation & Regulation

- Lack of cybersecurity legislation & enforcement capability
- Regional harmonisation of policy & legal frameworks
- Co-ordination and corporation is a MUST to address cross-boundary issues



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5G Challenges | Our Commitment to Members

Inherently similar in most of the 53 countries

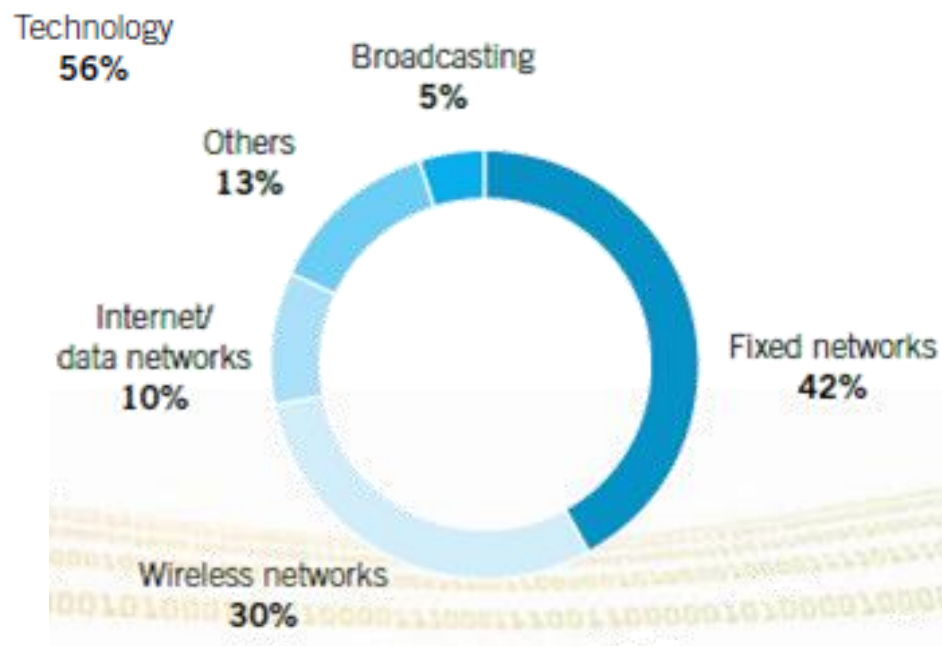
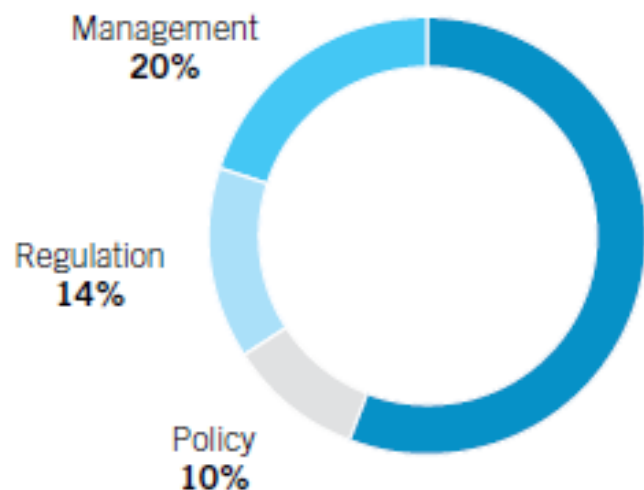
**Supporting our members
despite their divergent needs
for 5G (spectrum, standards,
investment, etc)**

**Encouraging the deployment
of terrestrial and satellite
technologies**



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Supporting 5G through Capacity Development



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Thank you.

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