



Internet
Society



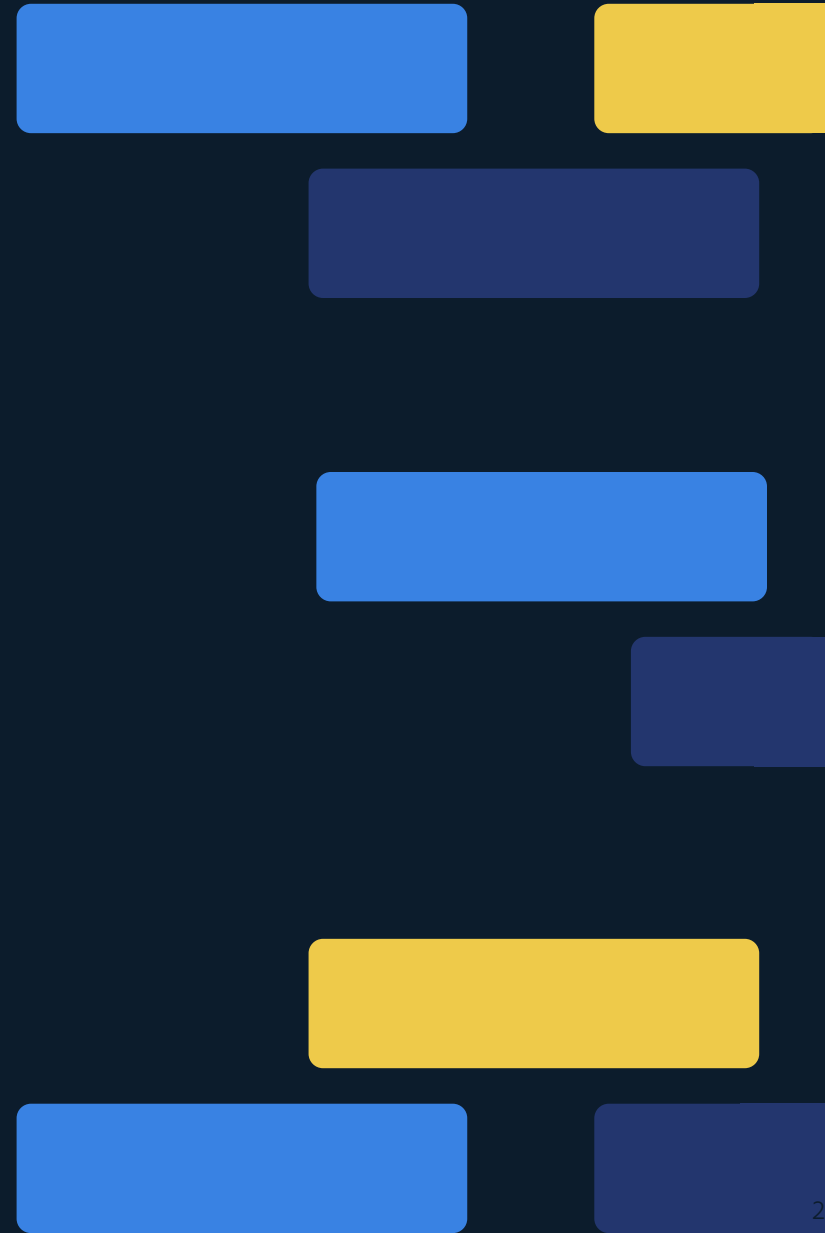
Internet Society
Foundation

Question 1/1 Workshop on Enabling environment for Universal and meaningful digital connectivity



Universal and Meaningful Connectivity

From the edge to the core



Complementary Connectivity & Access Solutions - Community-Centered Connectivity – CCC

Commercial ISP business models often fail in remote, low-density, or low-income areas due to lack of return on investment. Community-Centered Connectivity (CCC) acts as a complementary, bottom-up model extending coverage where commercial operators do not deploy, rather than competing for existing commercial subscribers.

- **Core Policy & Regulatory Interventions**
 - Licensing & Authorization Modernization
 - Dynamic and Shared Spectrum Management
 - Infrastructure Sharing & Funding Eligibility



Real world cases

- Nepal: Khunde and Khumjung
 - Increased Capacity
- Kyrgyzstan: Suusamyr and Zardaly
 - Civil Engagement
- South America: Gran Chaco region
 - Socio-economic development
- Uganda: Rhino Camp
 - Local capacity
- South Africa: Mamaila
 - Socio-economic development



Internet Exchange Points (IXPs) & Peering Ecosystems

Routing domestic data through international transit routes drains foreign exchange reserves, degrades latency, and increases end-user costs. IXPs keep local traffic domestic, creating shorter routes and anchoring local digital economies.

- **Core Policy & Regulatory Interventions**
 - Preserving Voluntary Interconnection:
 - Lowering IXP Operational Overhead
 - Promote regional cross-border terrestrial



The impact of Peering

Affordability gains:

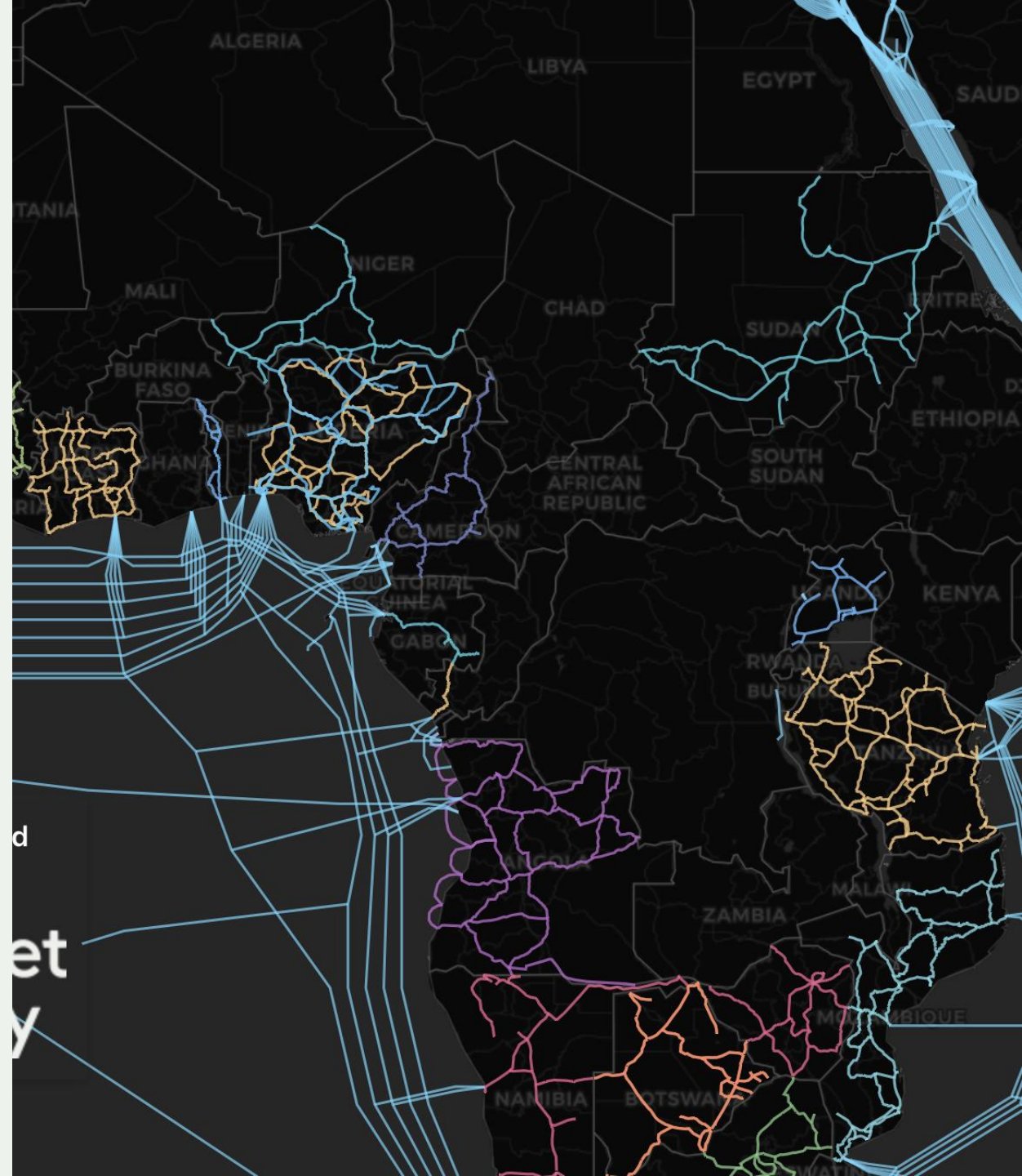
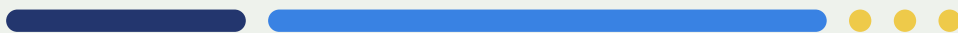
- **Burkina Faso:** Recorded a 98.4% relative drop; basic internet costs plunged from 13% of an average citizen's monthly income down to under 1% in five years.
- **Cabo Verde:** 85.2% reduction in income share required.
- **Uganda:** 80.4% reduction.
- **Zimbabwe:** 80.3% reduction.
- **Malawi:** 75.2% reduction.
- **Rwanda:** 68.4% reduction.



The impact of Peering

Resilience

- The West Africa Disruption (March 2024): An underwater rockslide severed four major undersea cables off Côte d'Ivoire
- The East Africa Cable Cut (May 12, 2024): A dragged ship anchor severed both SEACOM and EASSy cables off South Africa, causing massive regional traffic collapses across Tanzania, Kenya, Uganda, and the DRC



Thank you!

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