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### **RW INTERNET ECOSYSTEM**

- 26,338 sq. km Area Landlocked with 11.5 Million Population
- 79%: Mobile phone penetration
- 33% Internet penetration (~ 3.7 Million Internet users)
- Licensed ISPs: 9 (As Mar 2016) & Many 4G Resellers
- Aggregate Int'l Internet BW: 12,664 Mbps (~12 Gbps) (As Mar 2016)
- Fibre Backbones: ~ 4,732 km. 30 Districts (as Mar 2013 This has increased!)
- Last mile technologies: 4G, 3G, 2G, WiMAX, and FTTH (Now. With HAI -> Suggests future home usage growth)

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### **RW INTERNET ECOSYSTEM**

- IP transit costs: wholesale price are decreasing (Good)
- Dark & lit capacity fibre: still expensive
- Carrier Neutral datacentres: 1 (National DC). Others are closed 😕
- RICTA is currently advocating for new Carrier neutral DC build
- CN DC are key to unlock peering, Interconnection + Local content
- 1 IXP RINEX (13 AS Numbers)
- Redundant exit routes:
  - North: via Uganda & Mombasa/Kenya
  - East: via Dar-es-salaam/Tanzania



# **PROMOTING CONTENT**

- Phased-approach strategy
  - Establish local caches from the main CDN/Intl Content providers
  - Build local content hosting business/industry: 10K Websites P.
- The 10K Project derived from the ISOC Study in RW about Local content (in 2015)





## CHALLENGES

- Hosting locally Int'l caches DOES "partially" solve the problem of Hosting in Africa in general
- More content is being created; being "exported", to be "reimported" again back (though IPT costs are dropping, the volumes increase)
- Type of content: Non-latency sensitive content
- Less innovations

## **BASTIAAN QUAST**

**Economist Fellow** 

Presenting about "Promoting Content in Africa"