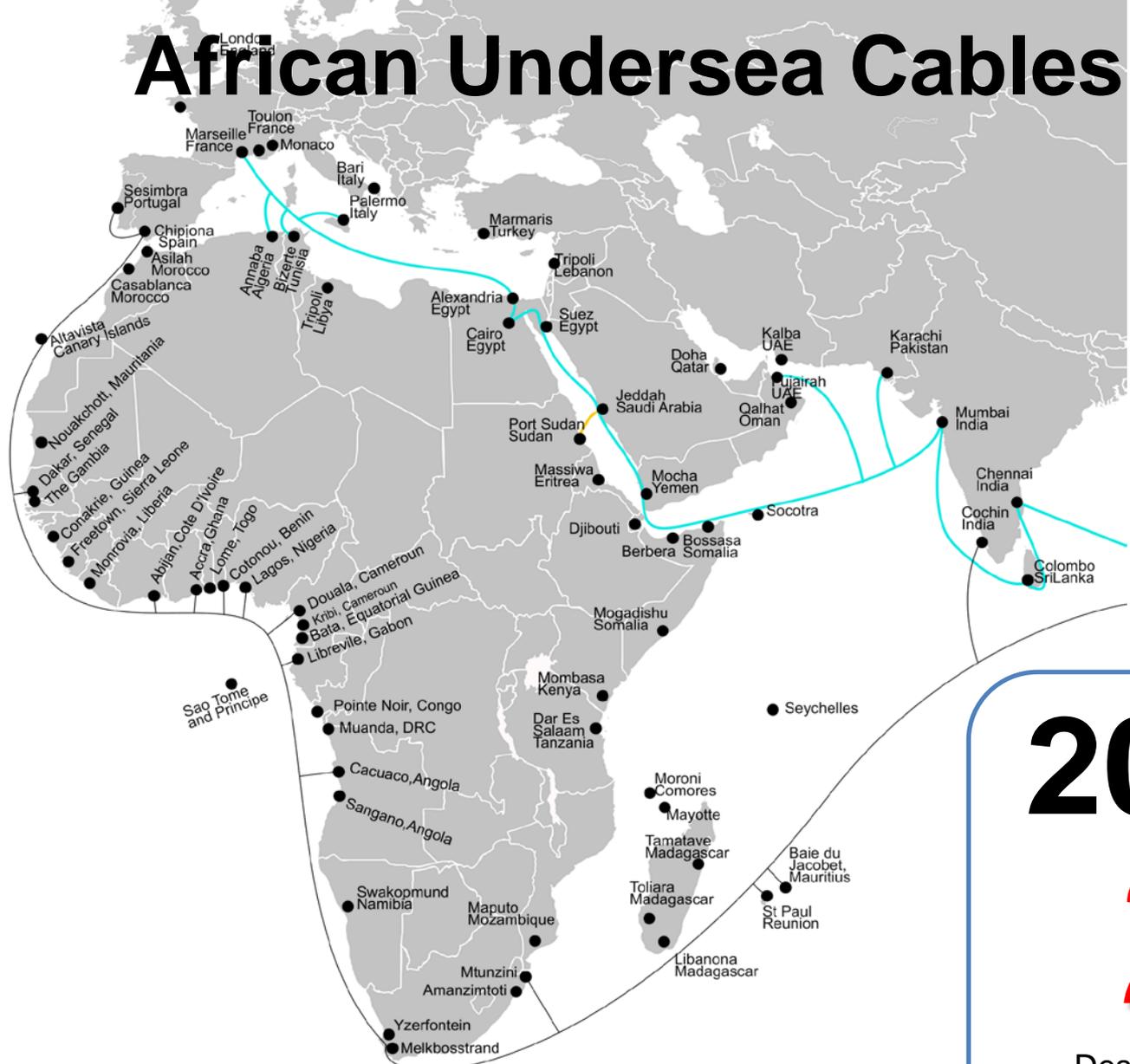


Regulation & Technological Change



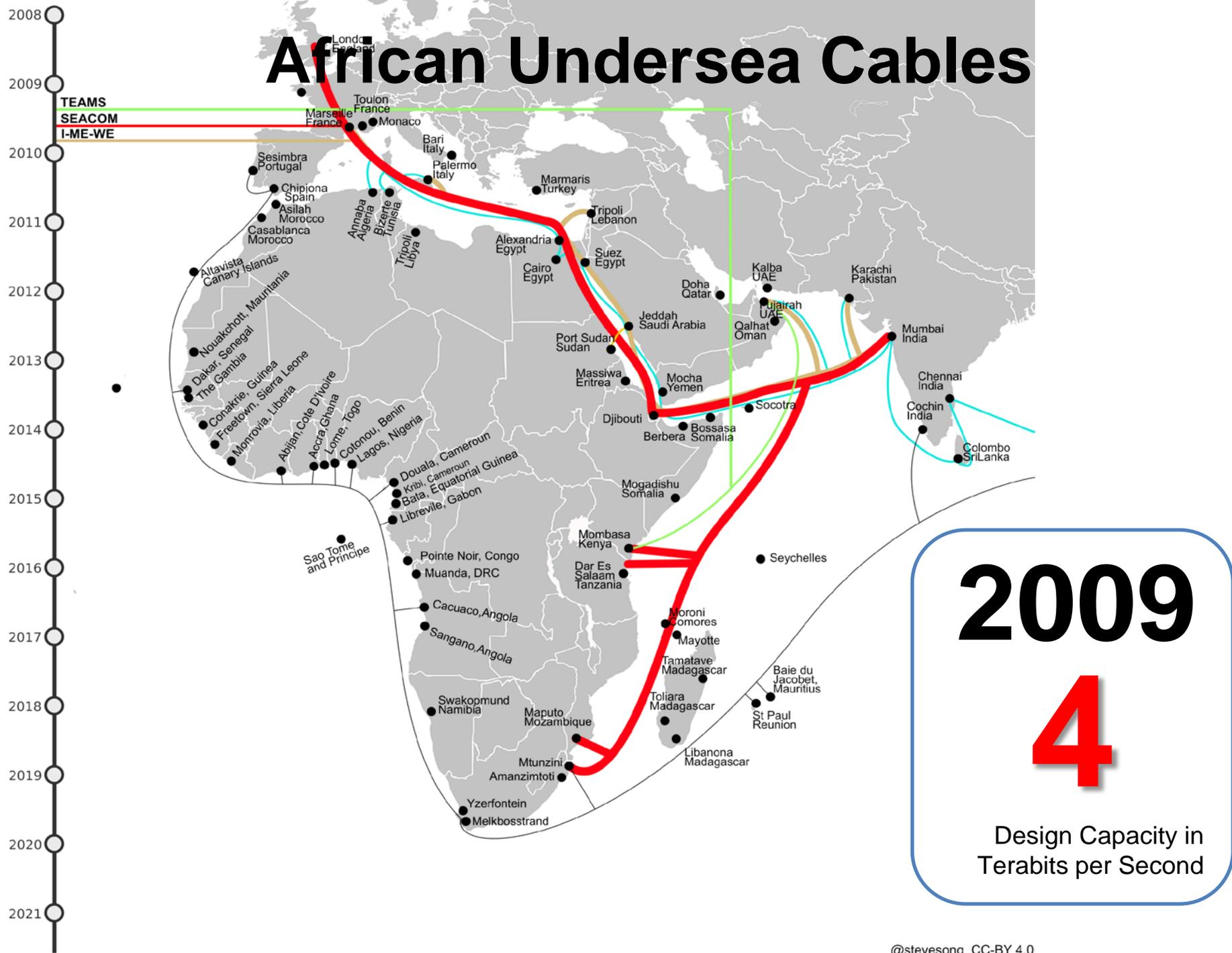
Steve Song
GSR 2019
9 July 2019
@stevesong

African Undersea Cables



2008
2
Design Capacity in Terabits per Second

African Undersea Cables

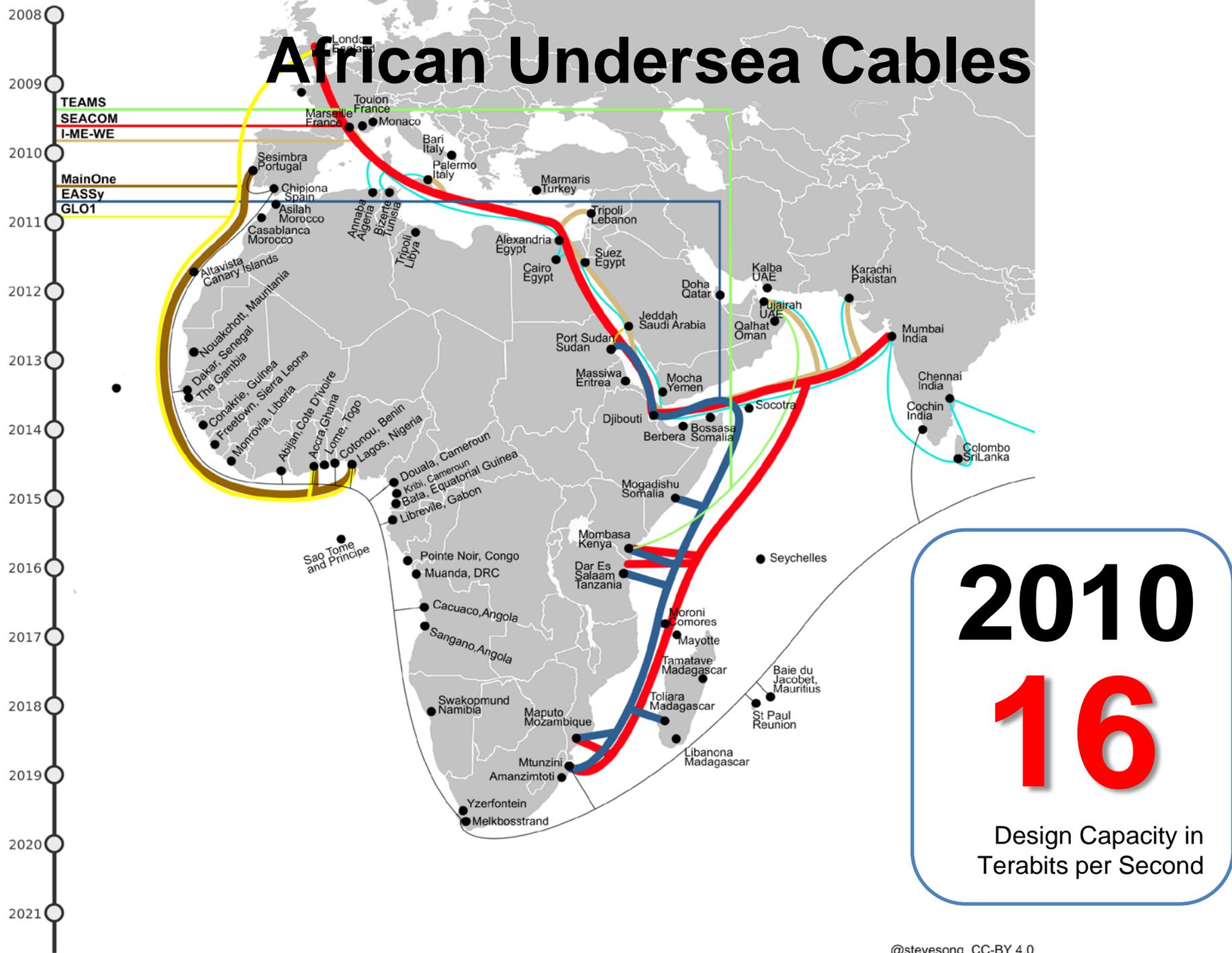


2009

4

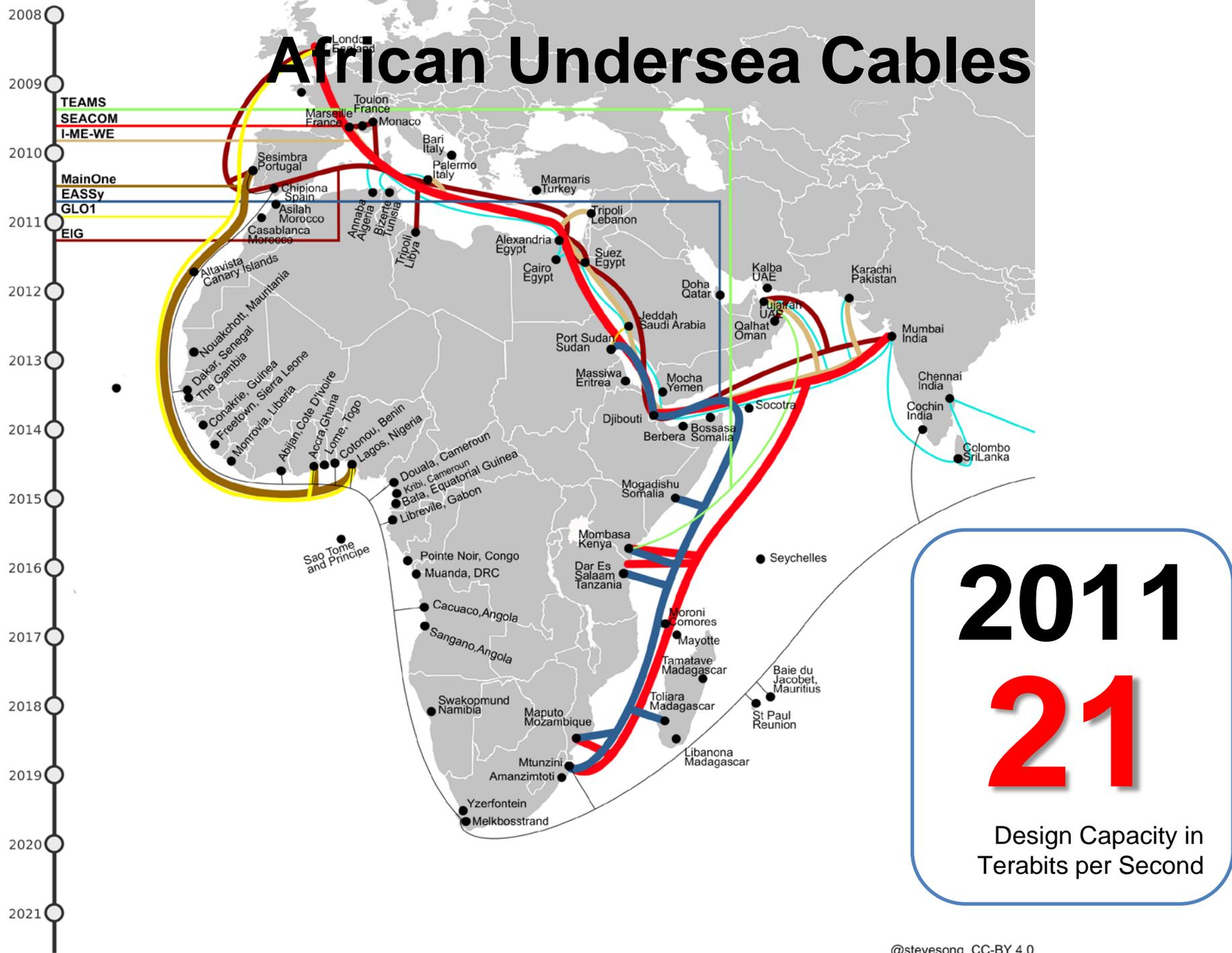
Design Capacity in Terabits per Second

African Undersea Cables



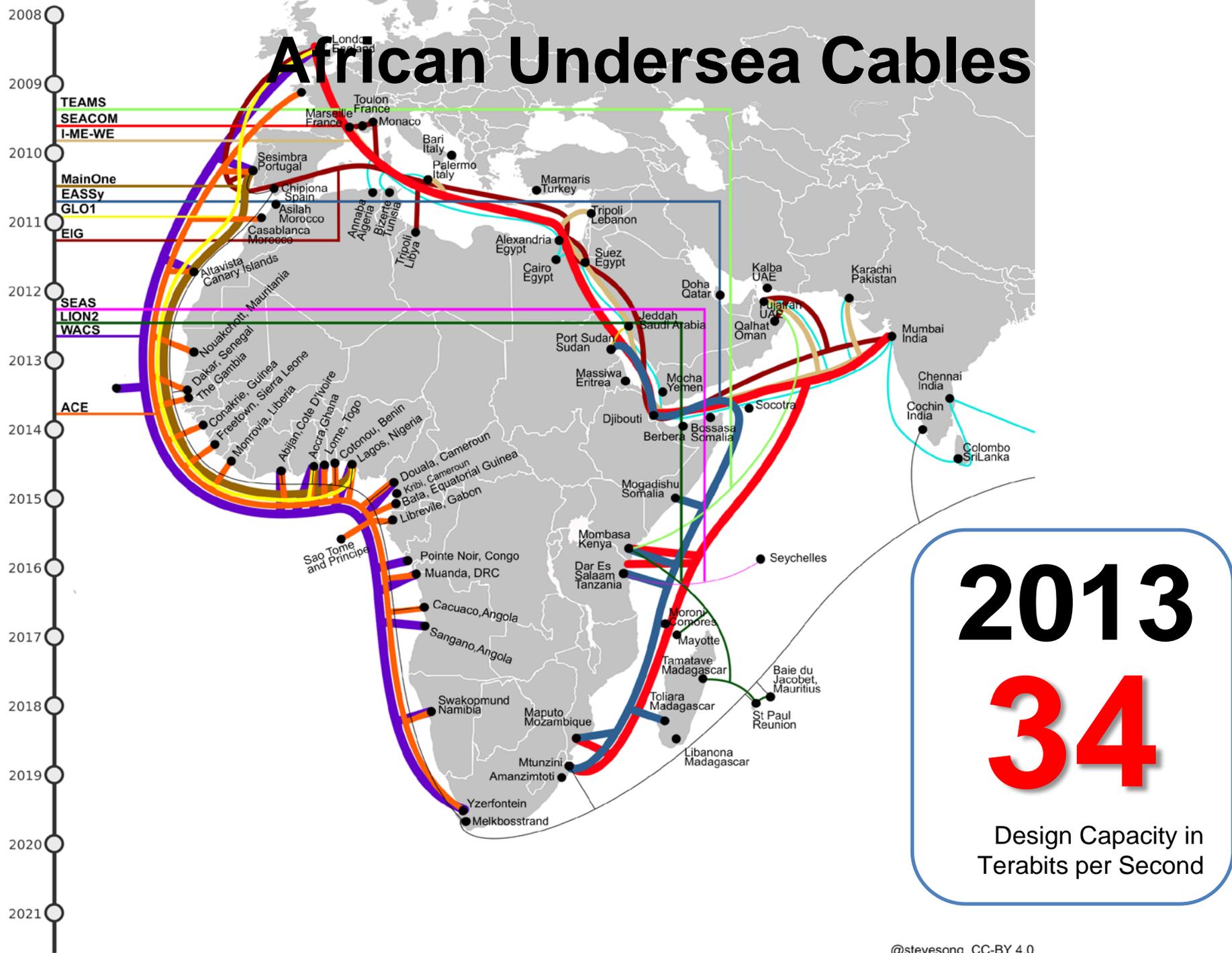
2010
16
 Design Capacity in Terabits per Second

African Undersea Cables



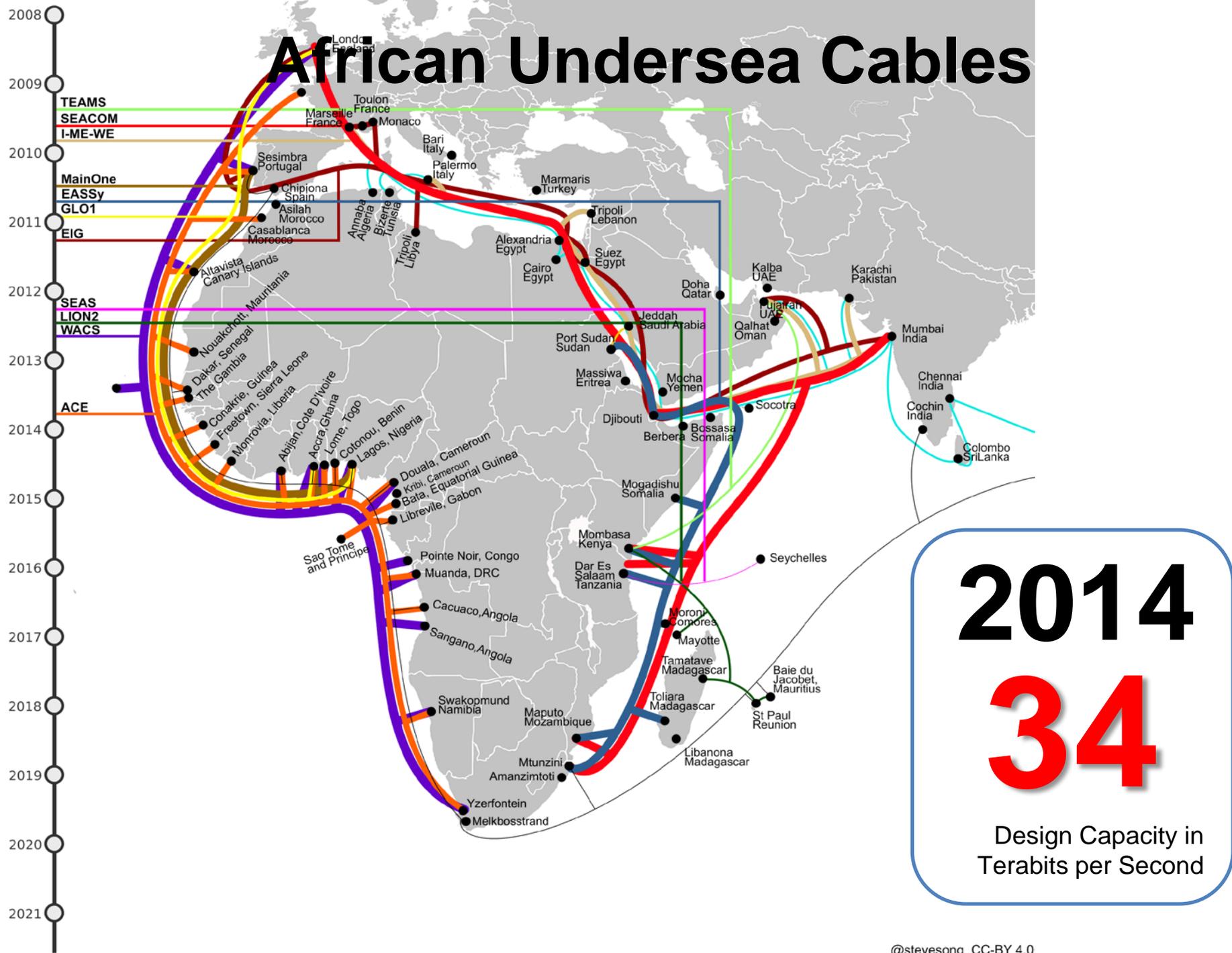
2011
21
 Design Capacity in
 Terabits per Second

African Undersea Cables



2013
34
 Design Capacity in Terabits per Second

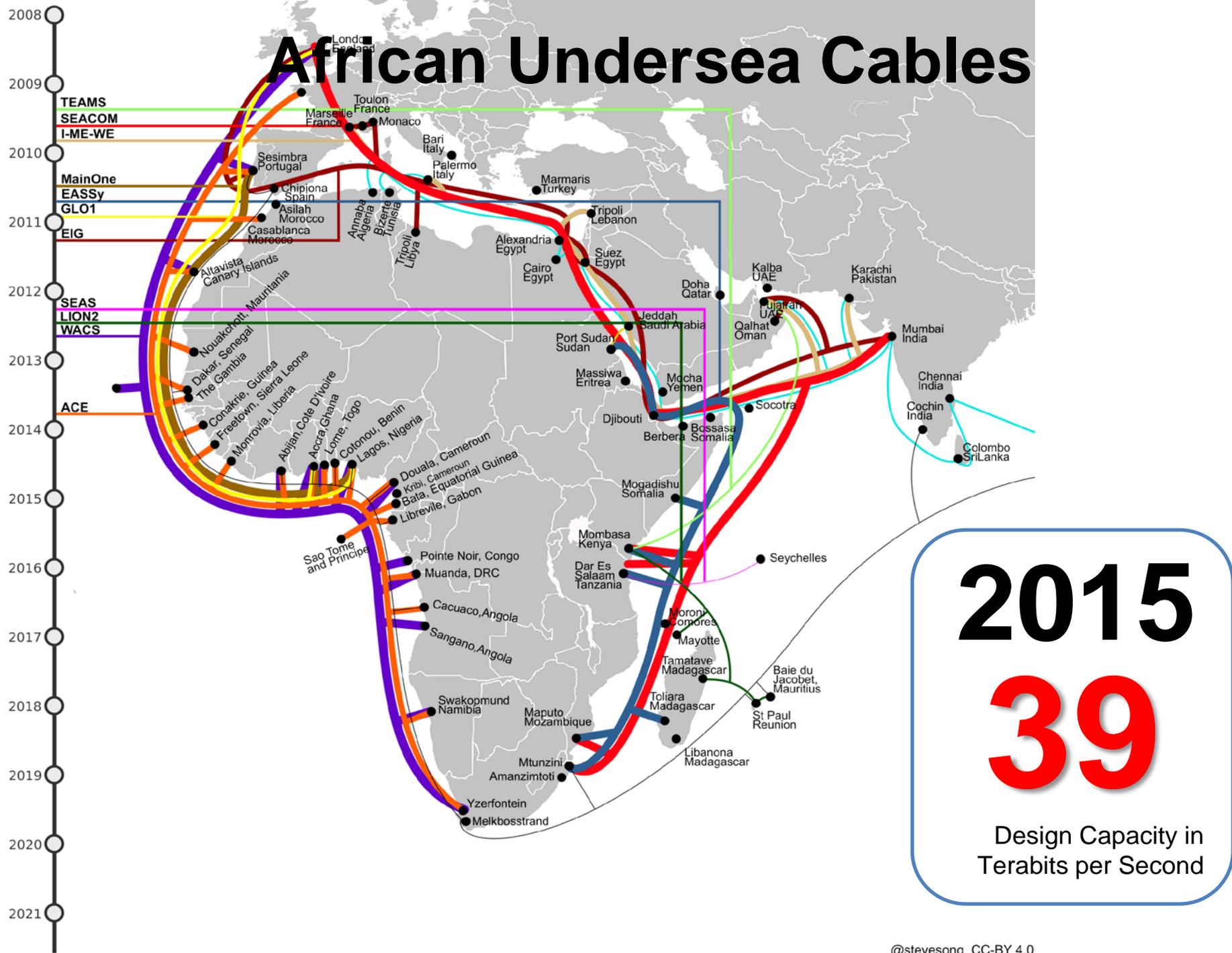
African Undersea Cables



2014
34

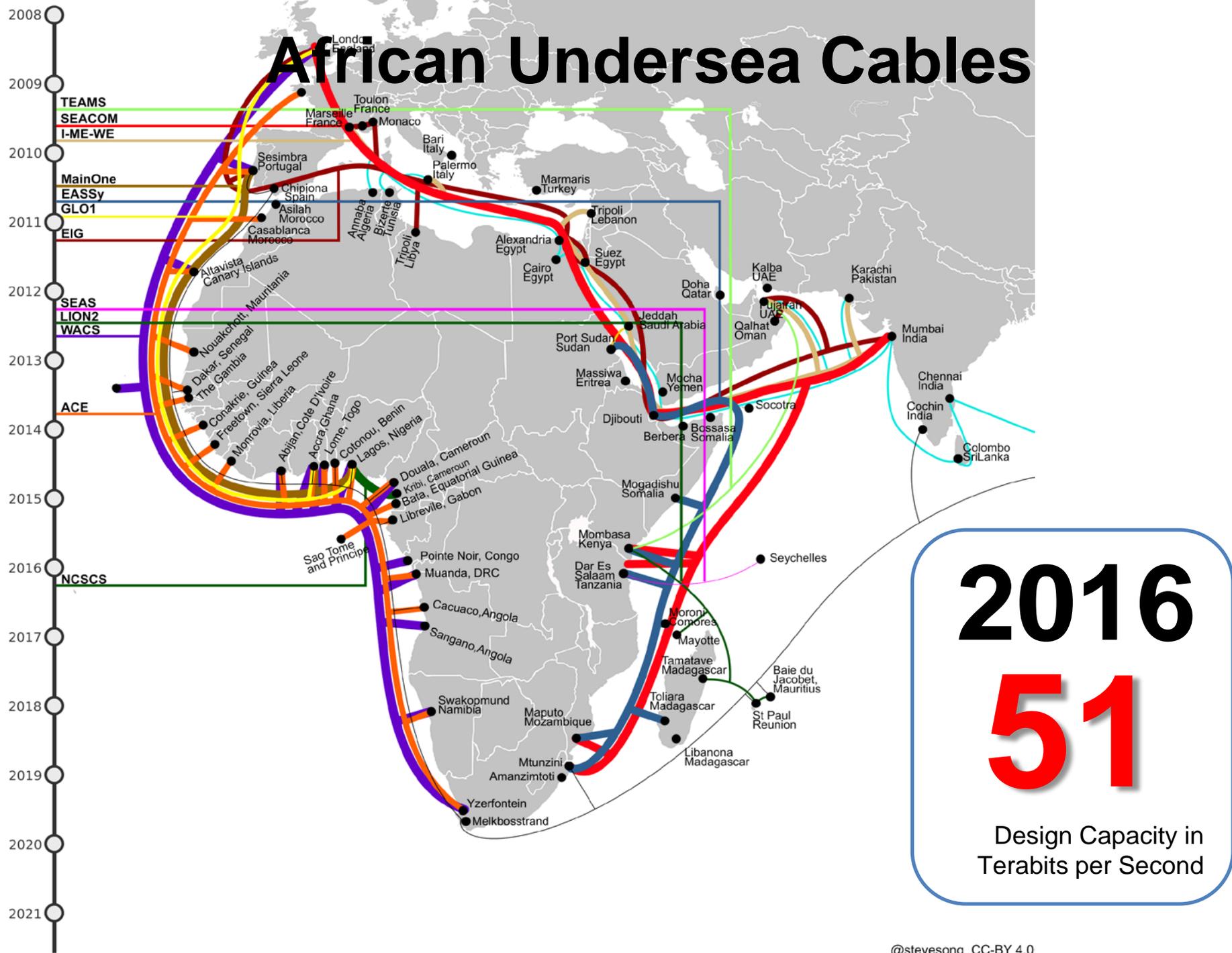
Design Capacity in Terabits per Second

African Undersea Cables



2015
39
 Design Capacity in Terabits per Second

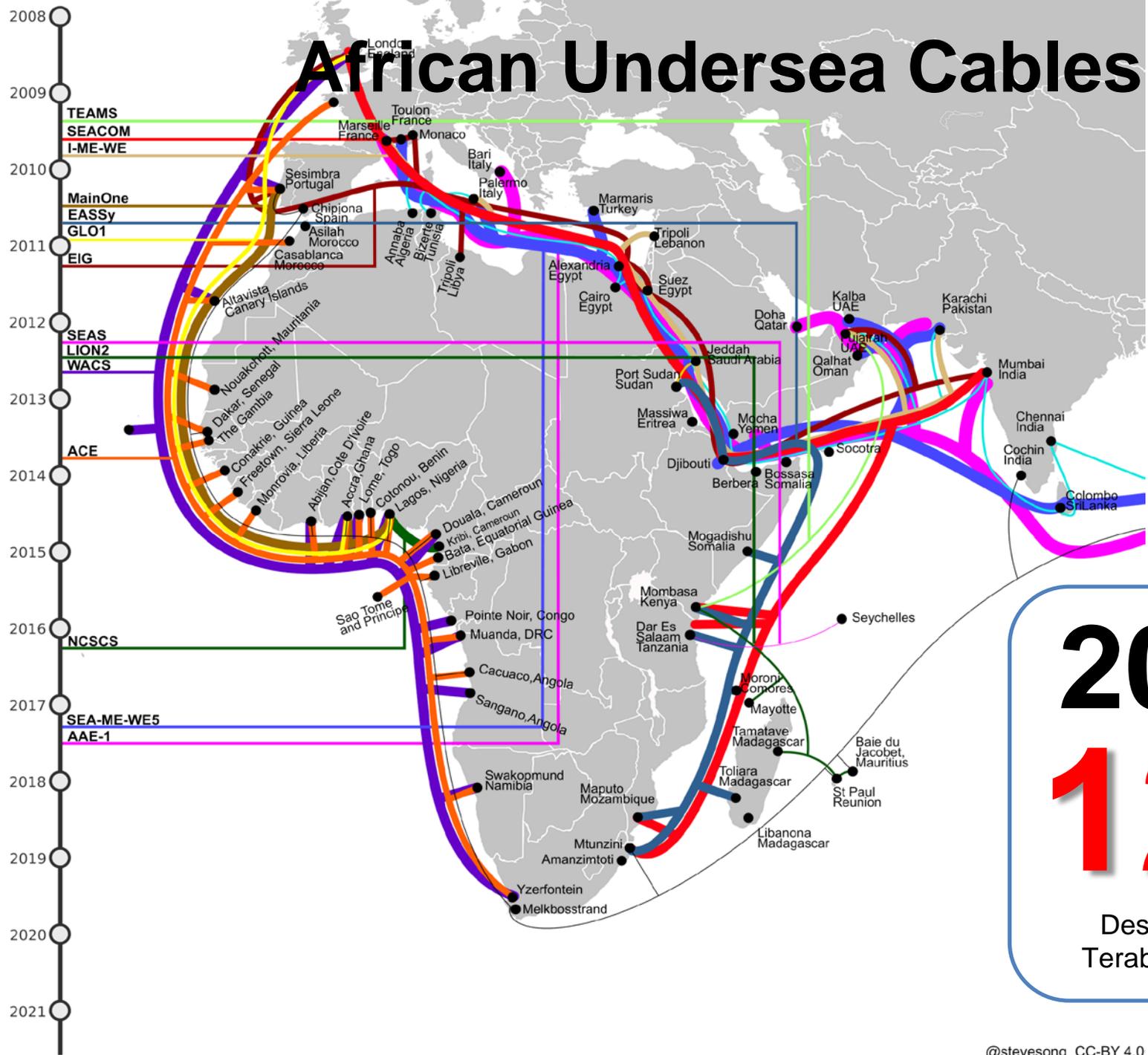
African Undersea Cables



2016
51

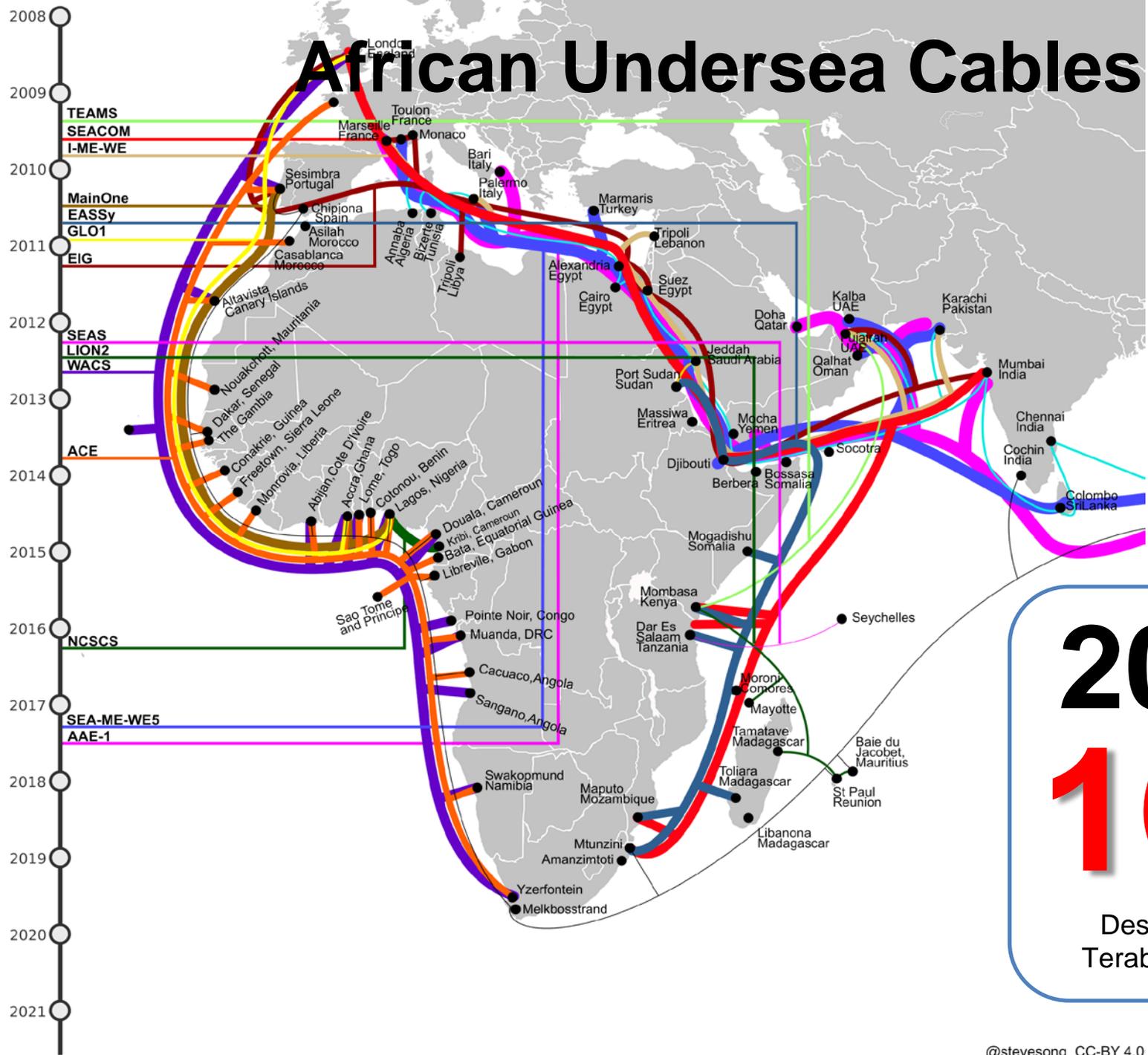
Design Capacity in Terabits per Second

African Undersea Cables



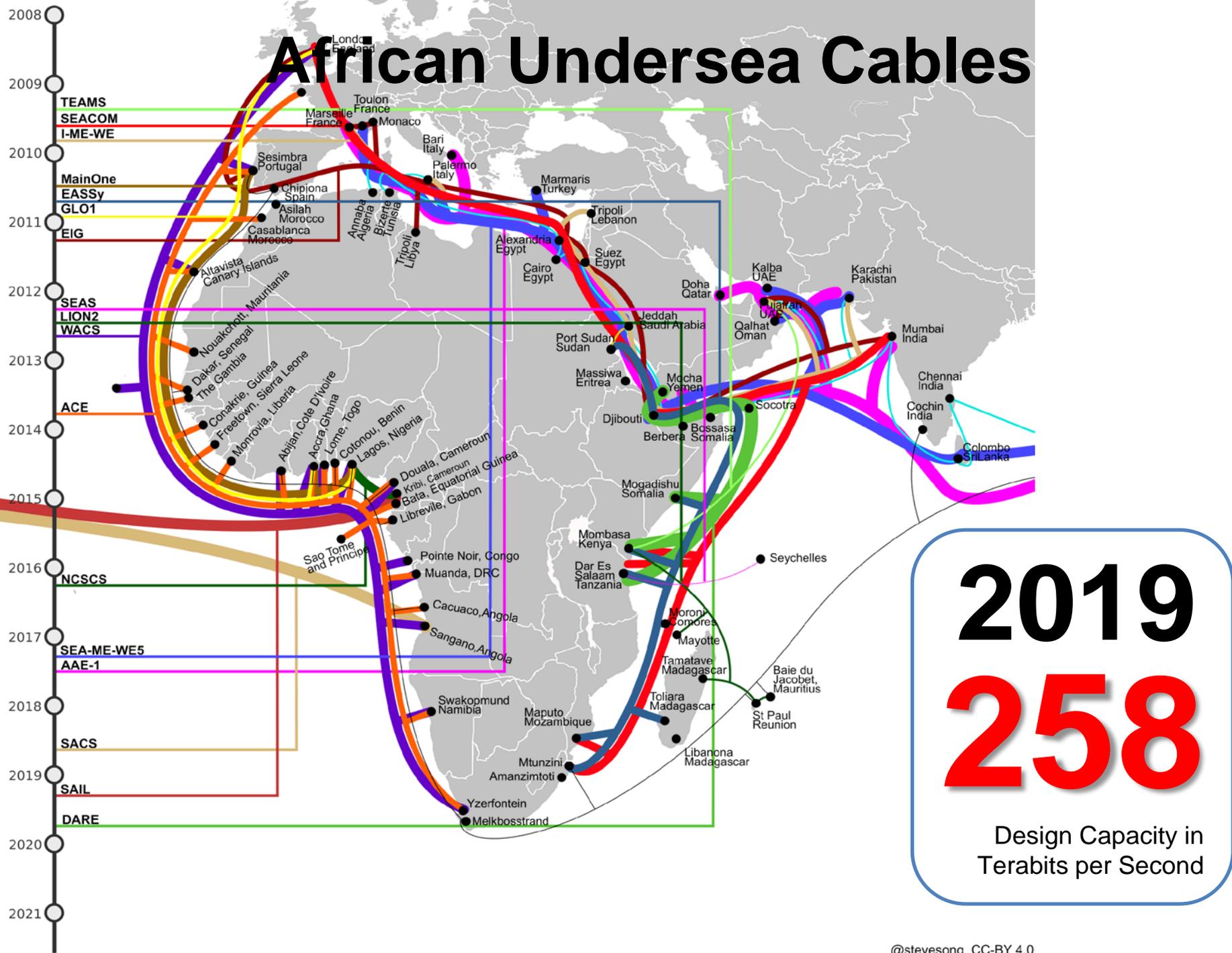
2017
126
 Design Capacity in Terabits per Second

African Undersea Cables

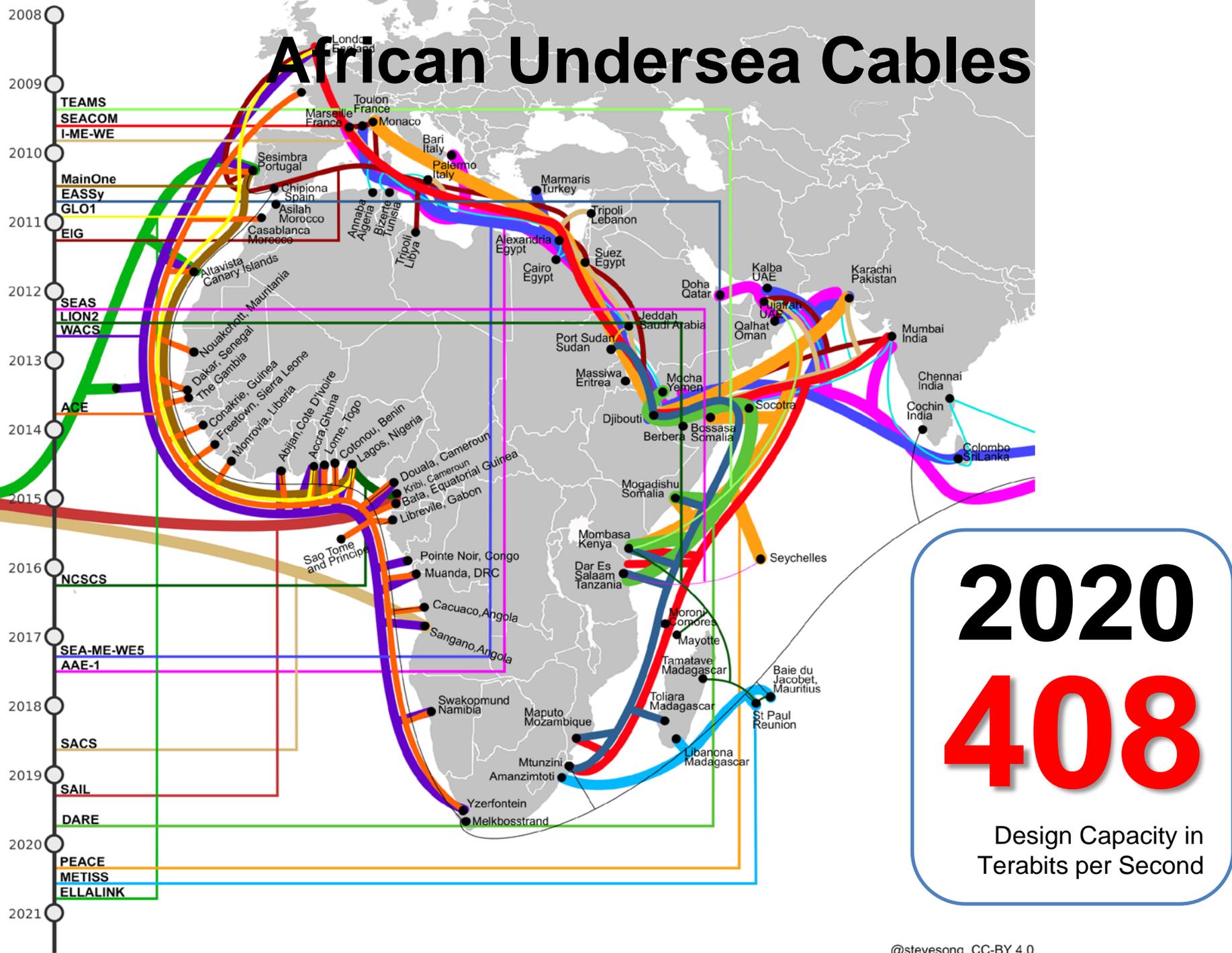


2018
166
 Design Capacity in Terabits per Second

African Undersea Cables



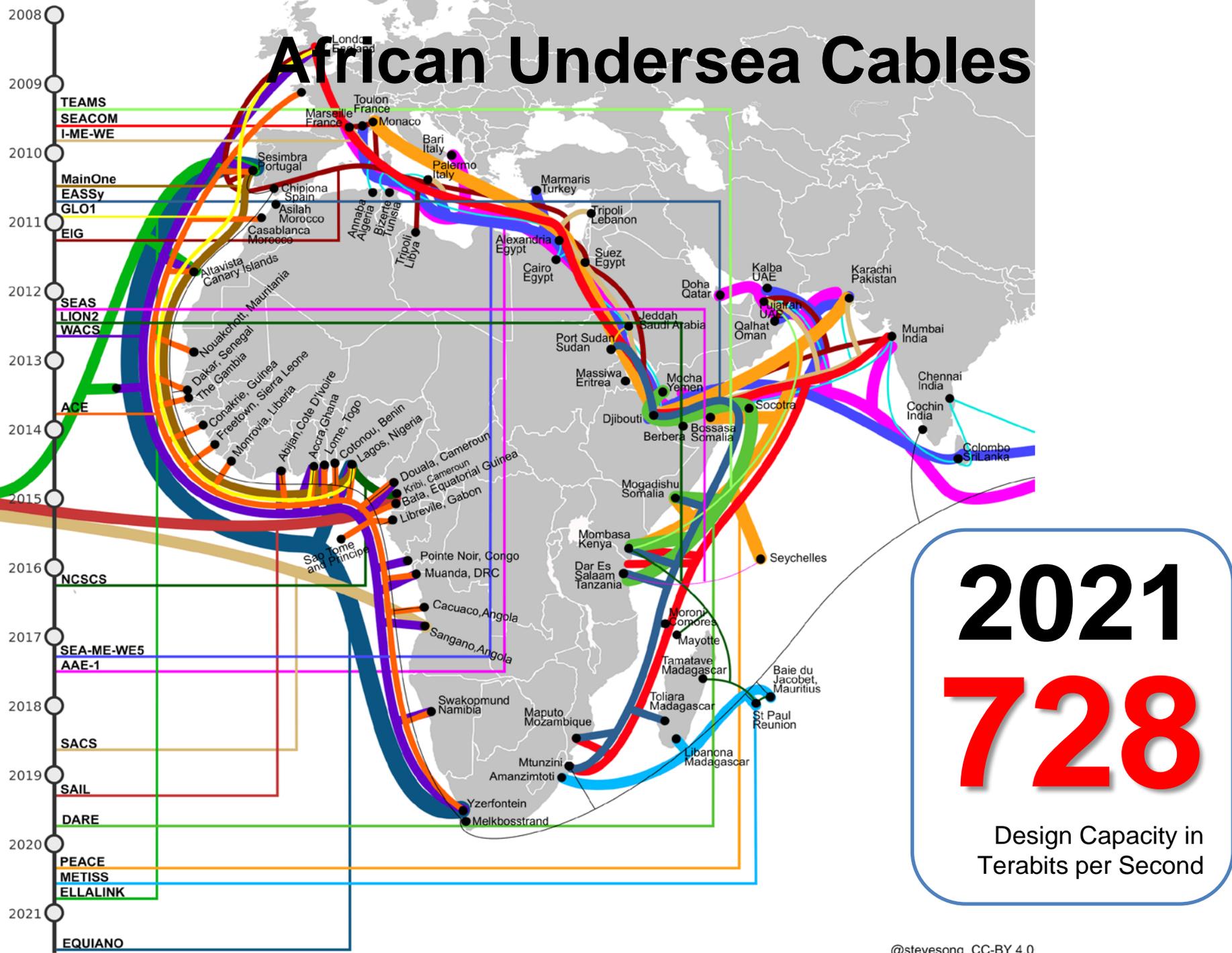
African Undersea Cables



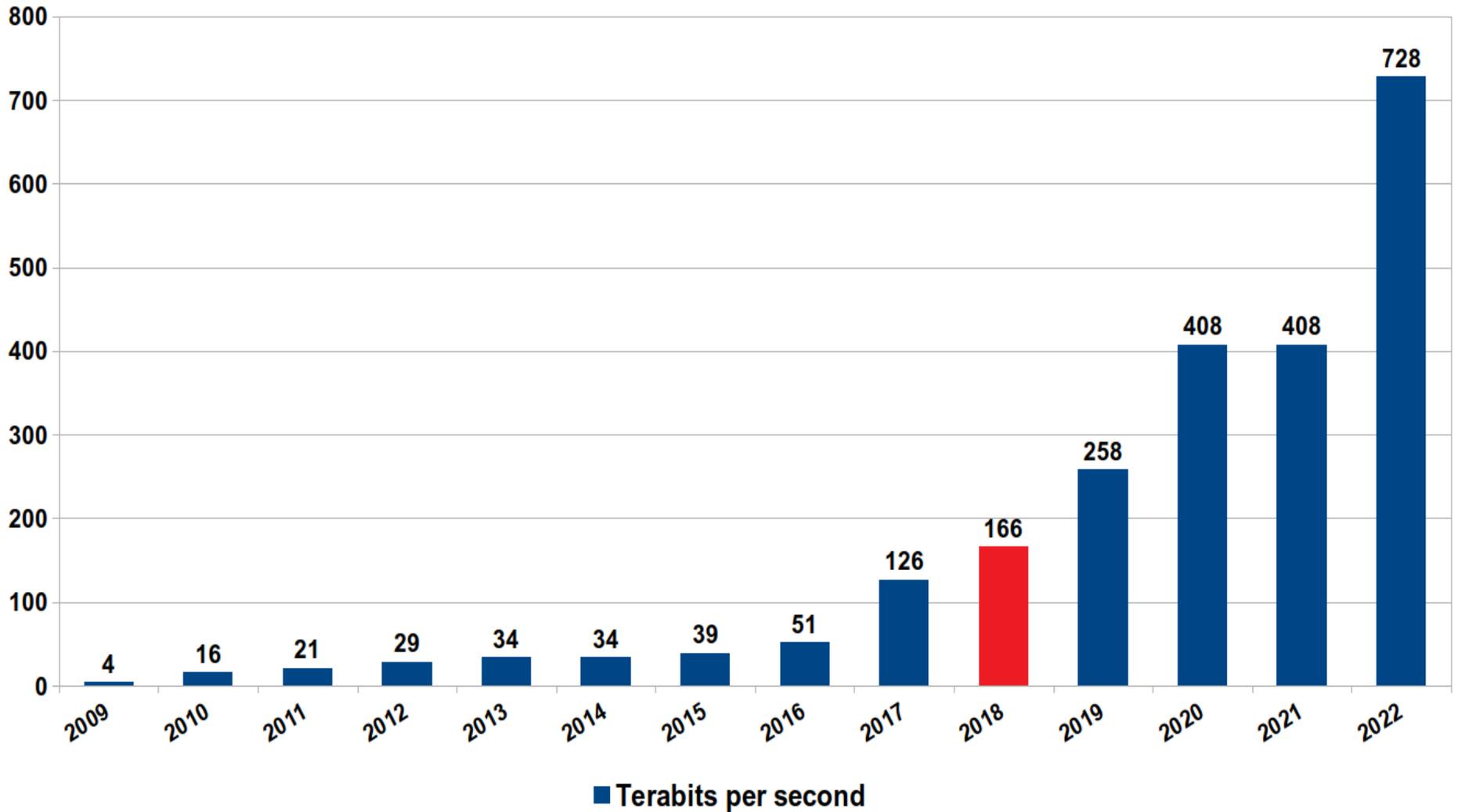
2020
408

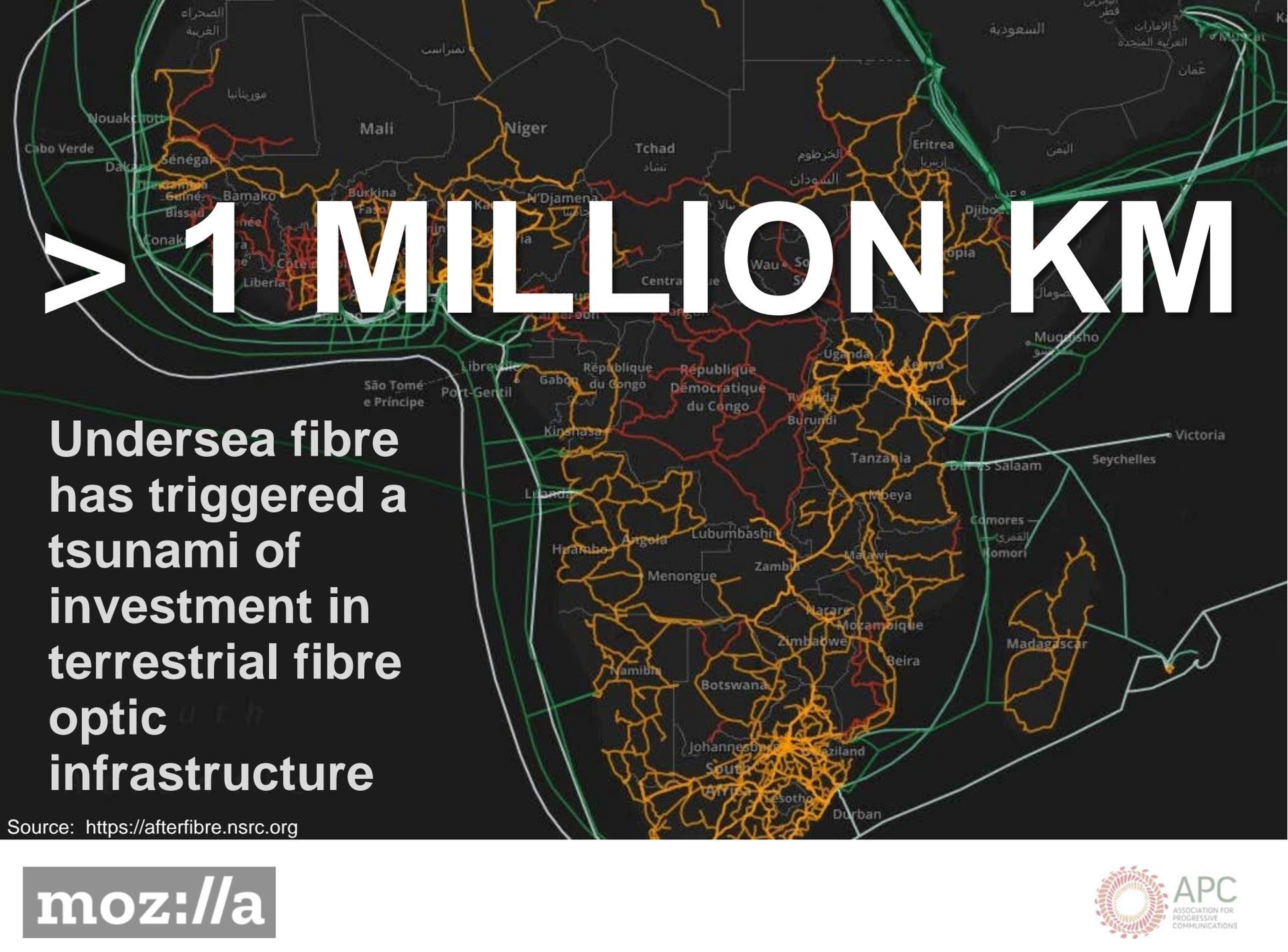
Design Capacity in Terabits per Second

African Undersea Cables



Growth in African Undersea Fibre Capacity



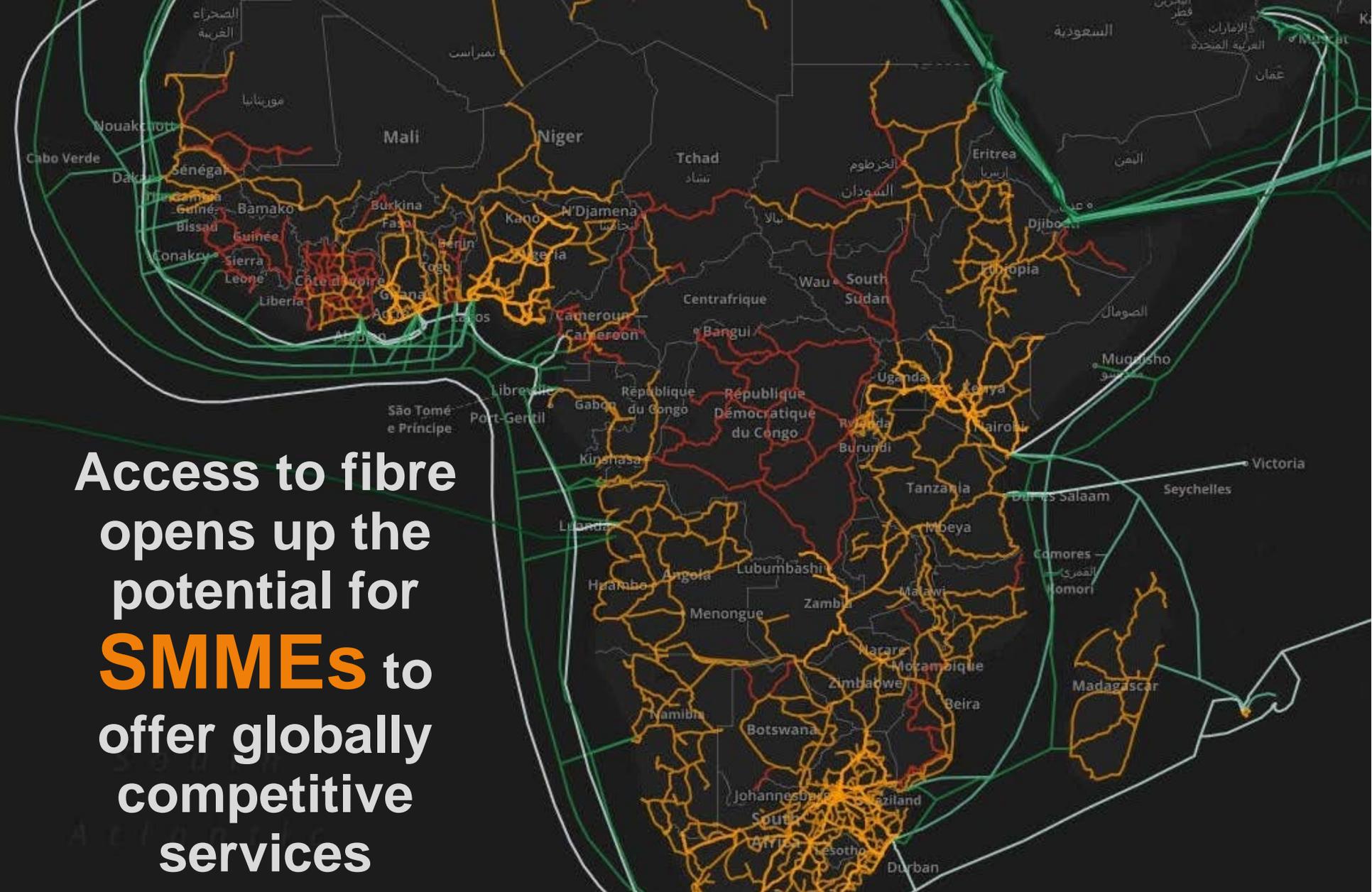


> 1 MILLION KM

Undersea fibre
has triggered a
tsunami of
investment in
terrestrial fibre
optic
infrastructure

Source: <https://afterfibre.nsrc.org>

moz://a



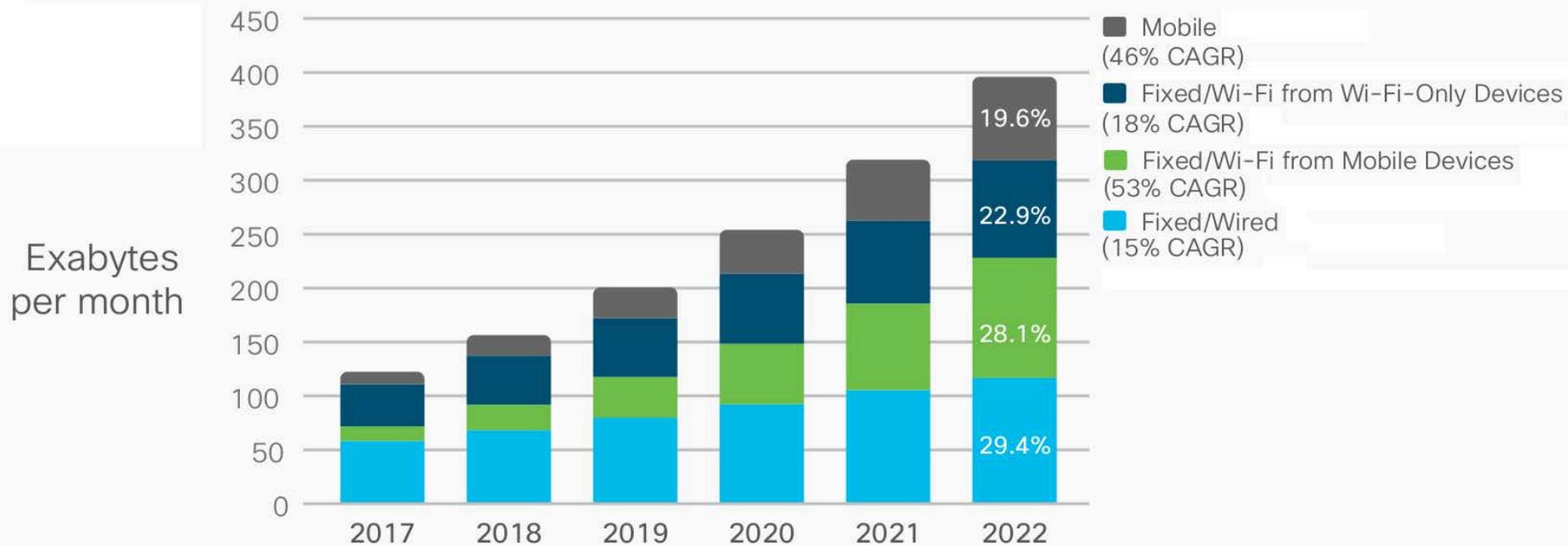
Access to fibre
opens up the
potential for
SMMEs to
offer globally
competitive
services

SMMEs Need Spectrum Too!



License Exempt Spectrum (WiFi)

Figure 21. Global IP traffic, wired and wireless*



* Wireless traffic includes Wi-Fi and mobile

Source: Cisco VNI Global IP Traffic Forecast, 2017-2022

New Generation Technologies





The next big thing
will be a lot of small things.

**Technological change
has unlocked potential
for SMMEs to extend
access to the unserved.**