May 2017

IX Update and Trends

Aftab Siddiqui
siddiqui@isoc.org

What do we do?

- ISOC works with partners throughout the world to develop IXPs, human capacity to manage it and help develop bottom-up and open policies of IXPs.

- We partners with regional and global players: DEF, Euro-IX, RIRs (RIPE-NCC, AfriNIC, APNIC, LACNIC), Other IXPs, Cisco, Comcast, Google, Alcatel, NSRC, PCH, and other global and regional experts

- Accelerating Internet Development with IXP

European IXP Landscape

www.internetexchangemap.com

3

European IXP Landscape

- **Montenegro** (2015 and 2016): 2 workshops One to generate support with Govt (INEX and NIX.CZ) and IXP Best Practices/Dev with INEX, NIC.CZ, and France-IX

- **Macedonia** (2016) – 1 workshop – Best Practices/Tech with RIPE NCC and INEX

- **Kyrgyzstan and Tajikistan** – we've a project with GEANT and the EC

  - Kyrgyzstan – 3 workshops (2) best practices (2015) and biz/community dev (2017) and (1) technical – preliminary BGP (Kurtis Lindqvist)
  - Tajikistan – Best practices/community dev (2016), IXP establishment is expected in 2018

- Euro-IX: Donation of funds – fellowships for various IXP experts to attend from Latin America, Africa, Europe, Middle East, CIS

African IXP Landscape

www.internetexchangemap.com

African IXP Landscape

- ISOC has an ambitious interconnection and traffic exchange (ITE) program for the African continent that aims to support achieve the vision of 80% local and 20% international Internet traffic by the year 2020.

- The multi-pronged program recorded important success with the establishment of 20 new Internet Exchange Points (IXPs) since 2009

- 37 IXPs hosted in 28 African countries as of January 2017. (ARDA)

- The African Route-collectors Data Analyzer (A.R.D.A.) is the culmination of an initiative aimed at advancing Internet measurements in Africa.
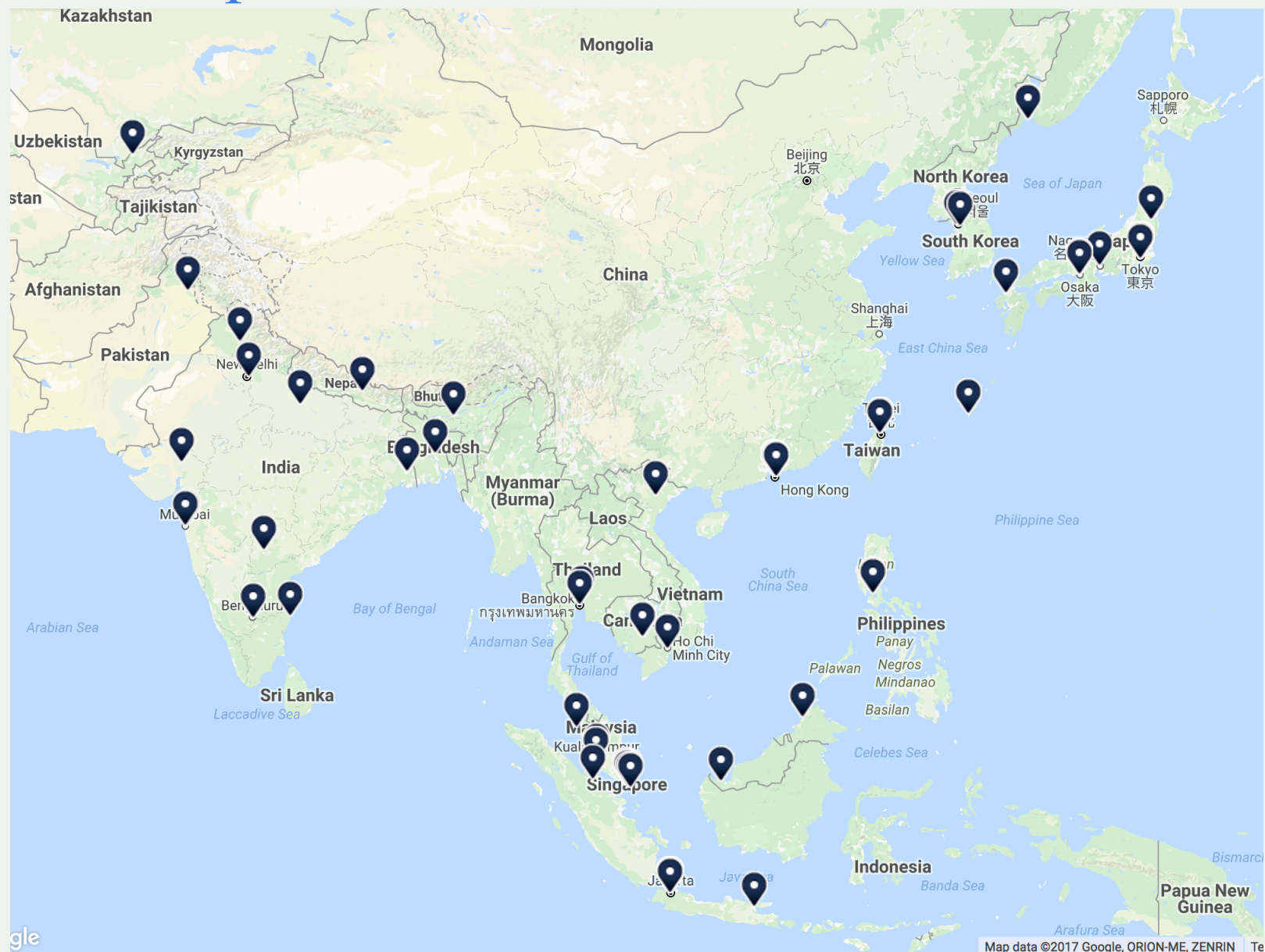
ME IXP Landscape

www.internetexchangemap.com

ME IXP Landscape

- **Egypt**: 2 switches sent to help develop capacity

- **Tunisia**: IXP Workshop with ITU (2015) – many ME countries and 3 switches sent to develop IX

- **Lebanon**: IXP Workshop – technical training and some best practices (2017 – March) with INEX, Euro-IX, RIPE NCC

APAC IXP Landscape

www.internetexchangemap.com

APAC IXP Landscape

- **Pakistan**

  - **IXP workshop in Islamabad (2016)**
  - **IXP (Islamabad node) Inaugurated in January 2017**
  - **IXP workshops planned for Karachi and Lahore.**
  - **Equipment for Karachi (ISOC) and Lahore (APNIC) will be delivered by July 2017**

- **PNG** – Workshops (2) Best Practices (2014) and Technical Training (BGP) (2016) – Donation to date is 1 switch and likely routers in a month

- **Thailand** – BKNIX – 1 (donation of switches, routers) 2013-2015

- **Vanuatu** – donation of 2 generators after cyclone (2015)

Moving Forward

- The Internet Society has been contributing its share in promoting the development of IXPs by organizing workshops on best practices for IXP development

- We were able to achieve our goals through key partnerships with other organizations such RIRs (APNIC, RIPE NCC, LACNIC, AFRINIC, ARIN), NSRC, PCH etc

- In conclusion, the Internet Society believes that the deployment of IXPs can have a considerably positive impact on the economic development, business, and societal well-being of a nation while contributing to the overall global development of the Internet.

Get Involved and Help us!

Thank You

Aftab Siddiqui

siddiqui@isoc.org

Visit us at
www.internetsociety.org
Follow us
@internetsociety