

Tuesday, 7 July 2020

Internet Society Projects: Building a Better Internet

Internet Day – Bahrain 2020

Ministry of Transportation and Telecommunications
Internet Society Bahrain Chapter



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Under the patronage of H.E. Engr. Kamal bin Ahmed Mohamed
Minister of Transportation and Telecommunications

INTERNET DAY BAHRAIN 2020



11:00 am – 2:00 pm 7th JULY 2020 via Virtual Platform

2020 Projects

A bigger Internet

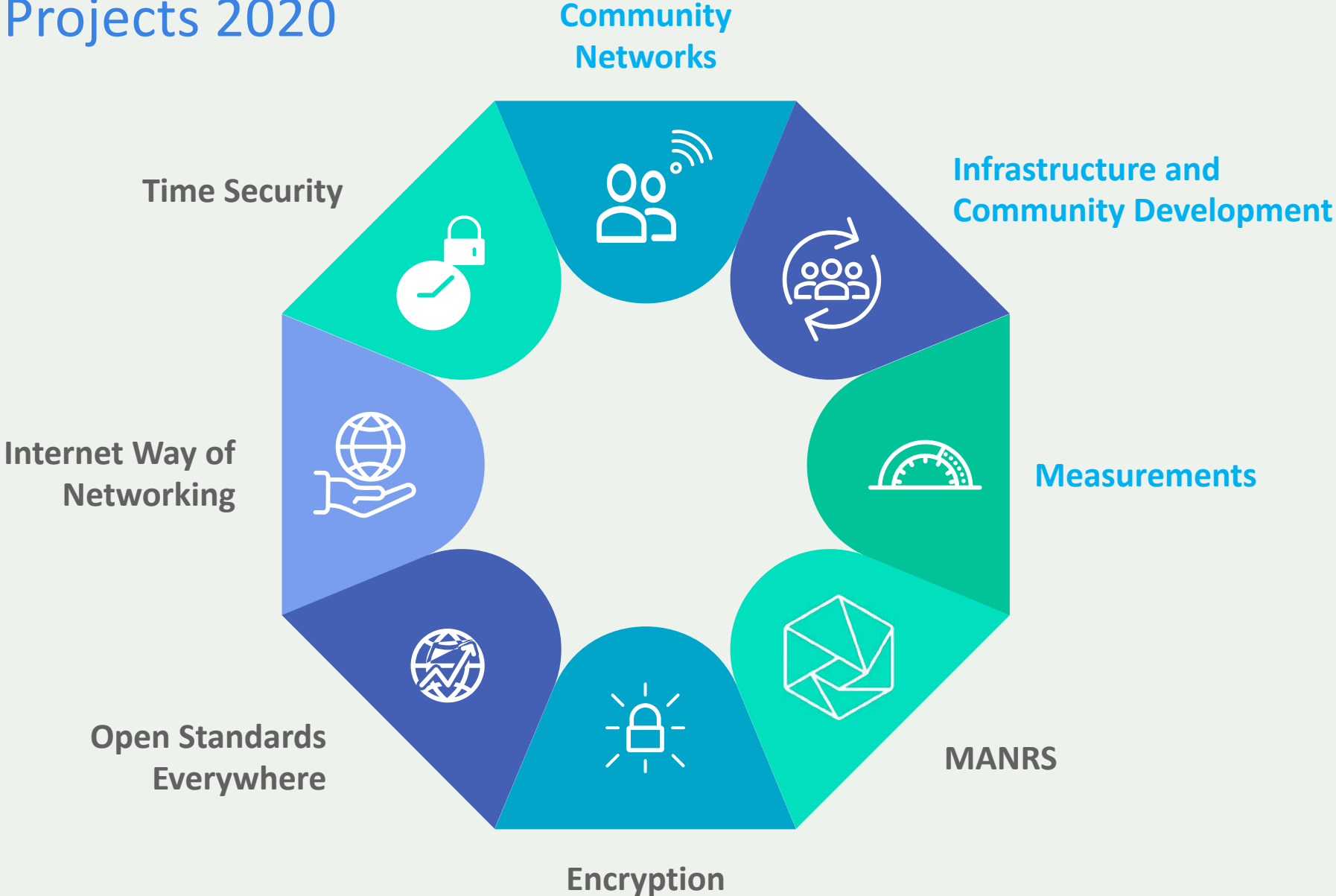


The global Internet continues to grow around the world, but unevenly. Our efforts are aimed at not only increasing the reach and reliability of the Internet in the short term, but also ensuring the foundations for continued growth are solidly in place. We will do this through projects focused on Community Networks and Internet Exchange Points. We also are launching a new project will bring together multiple measures of the Internet to better inform the future work and plans of the Internet Society and others to promote the growth of the global Internet.

<https://www.internetsociety.org/action-plan/2020/>



8 ISOC Projects 2020



Internet Growth

Community Networks



Infrastructure & Community Development (aka IXPs and NOGs)

Measuring the Internet



Internet Growth | Team

- SVP Internet Growth: Jane Coffin

Project Coordinator: Kyle Shulman

Comms CN/InfraCom: Lia Kiessling

Comms Measurements: In process

- Projects

Community Networks

- Max Stucchi & Juan Peirano

Infrastructure & Community Development

- Michuki Mwangi & Naveed Haq

Measuring the Internet

- Mat Ford & David Belson



Community Networks

- Connecting the unconnected
- From the people for the people
 - **From** the community, **with** the community **by** the community
- Key ingredient are **Local Champions**



The Pillars of Community Networks



Policy

A favourable policy environment making it simple to start a network and running it

Backhaul

Access to fiber or to a favourable ISP willing to provide capacity to run the CN on

Knowledge

Technical capabilities required to maintain and expand the network, but also understand the technologies used

Users

A critical mass of users that gain benefit from Internet access and help foster the network

Sustainability

Ability to keep the network running financially without external help or funding



Examples of Successful CNs

- Europe

- Tusheti, Georgia
- Sussamyr, Kyrgyzstan
- sarantaporo.gr, Greece

- Asia-Pacific

- India
- Nepal
- Pakistan

- South America

- Argentina
- Mexico

- Africa

- Murambinda Works, Zimbabwe
- Zenzeleni, South Africa
- Kondoa, Tanzania
- Tunapanda, Kenya

- North America

- Pu'uhonua O Wai'anae, Hawaii'i
- Ulukhuqtuk, Northwest Territories, Canada



Strong infrastructure and local technical **communities** provide complementary building blocks upon which more and better Internet infrastructure can be built.

At the same time, we've got to work with the local technical communities in order to advance ISOC technical projects & goals.





Capacity
Building



Community
Building



Infrastructure
Dev.

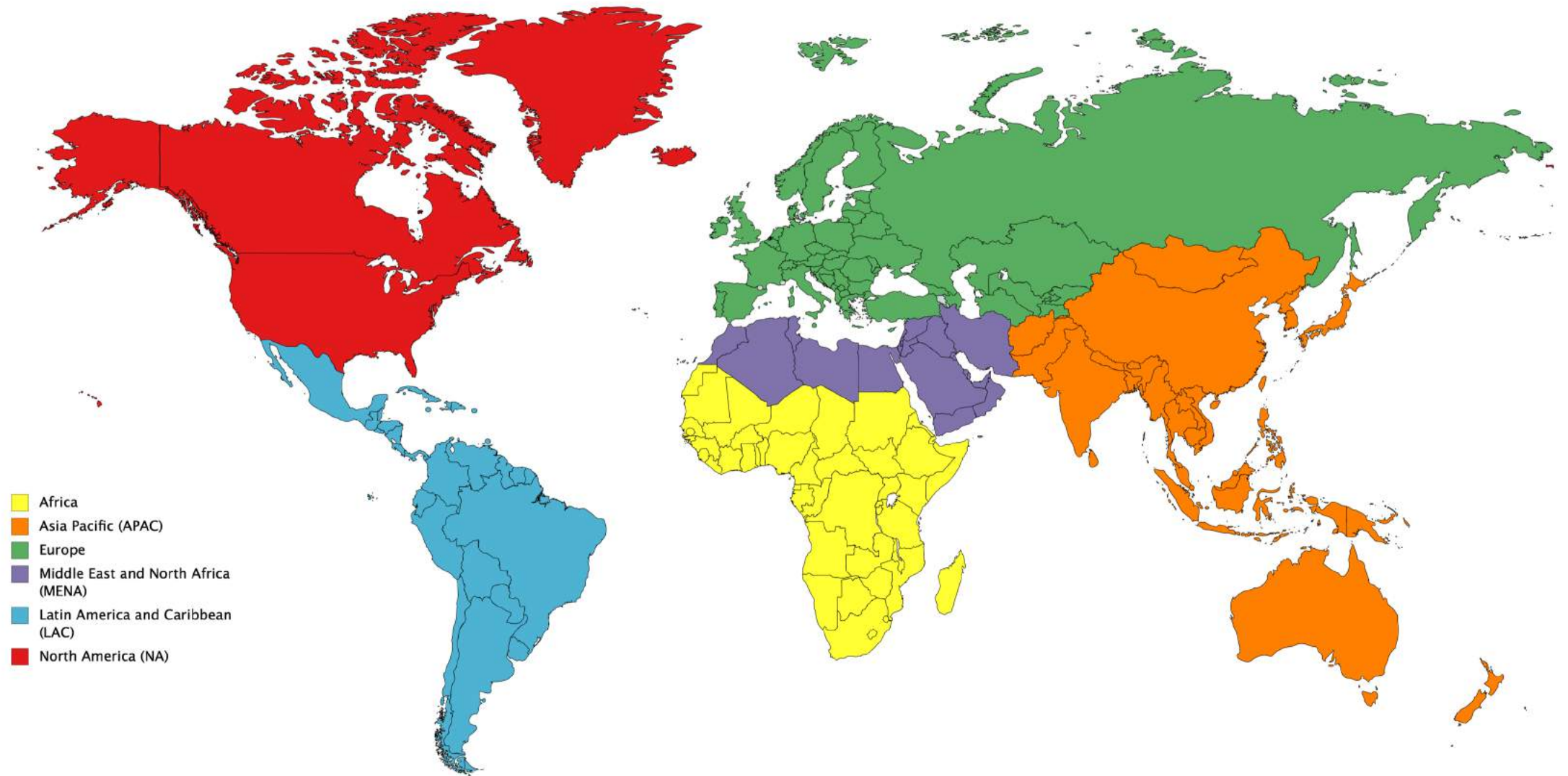


Partnerships



Global
Engagement

Regional approach to how we work



How we work with partners and chapters?

- **Capacity Building**

- Mobilizing cohorts for the online courses
 - Identifying capacity building gaps aligned to our strategic work areas

- **Community Building**

- Mobilizing the local community to setup a local NOG or IXP
 - Working with the local IXP to organize local peering events

- **Policy engagement and outreach**

- Collaborating with local stakeholders i.e IXPs, ccTLDs, NRENs, etc. to advance policy discussions on peering and interconnection, terrestrial fiber infrastructure, data centers, NRENs and cross-border interconnection.



rica | **Date:** 21st – 23rd August, 2018



Measuring the Internet




Measuring the Internet – Why?

Bridge the gap between academic networking research and non-scientific audiences (journalists, public policymakers, researchers)

Standalone resources exist but are often focused on a specific aspect of Internet infrastructure or driven by commercial interests

Be a trusted source of information about the Internet – make good, relevant data and interpretations easier to find, share, and reuse

 Help to inform and support other Internet Society projects & communities of interest

Measuring the Internet – What?

Provide a single location for multiple measures of Internet evolution and health – Internet measurement dashboard / infographics

Not a science project!

Tell stories with data – support non-scientific audiences in understanding measurement data

Provide context for the numbers – timely, responsive, interactive



Measuring the Internet – How?

Use case driven:

- Internet Shutdowns
- Enabling Technologies
- Internet Way of Networking (IWON)
- Internet Resilience (Africa)

Work with partners

- CAIDA, RIRs, Oracle, etc.

Work in the community

- RightsCon ~~2020~~ 2021 (Costa Rica)
- Internet Research Task Force (IRTF)
- ACM Internet Measurement Conference
- Other events, as appropriate

Consume & process third-party data

- Use existing measurements



No strategy will succeed without the commitment of
extraordinary people.

Join Us.



Thank you.

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