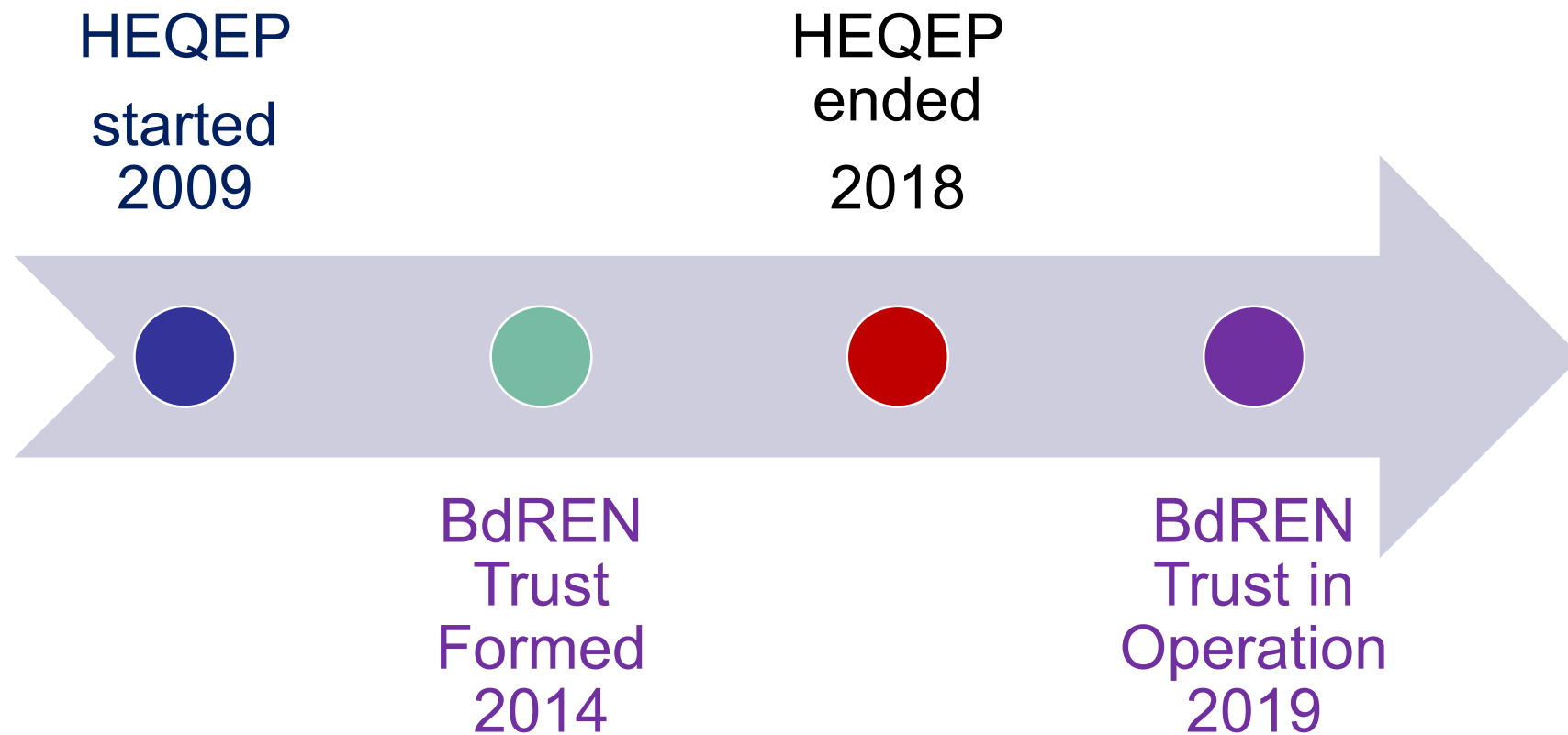


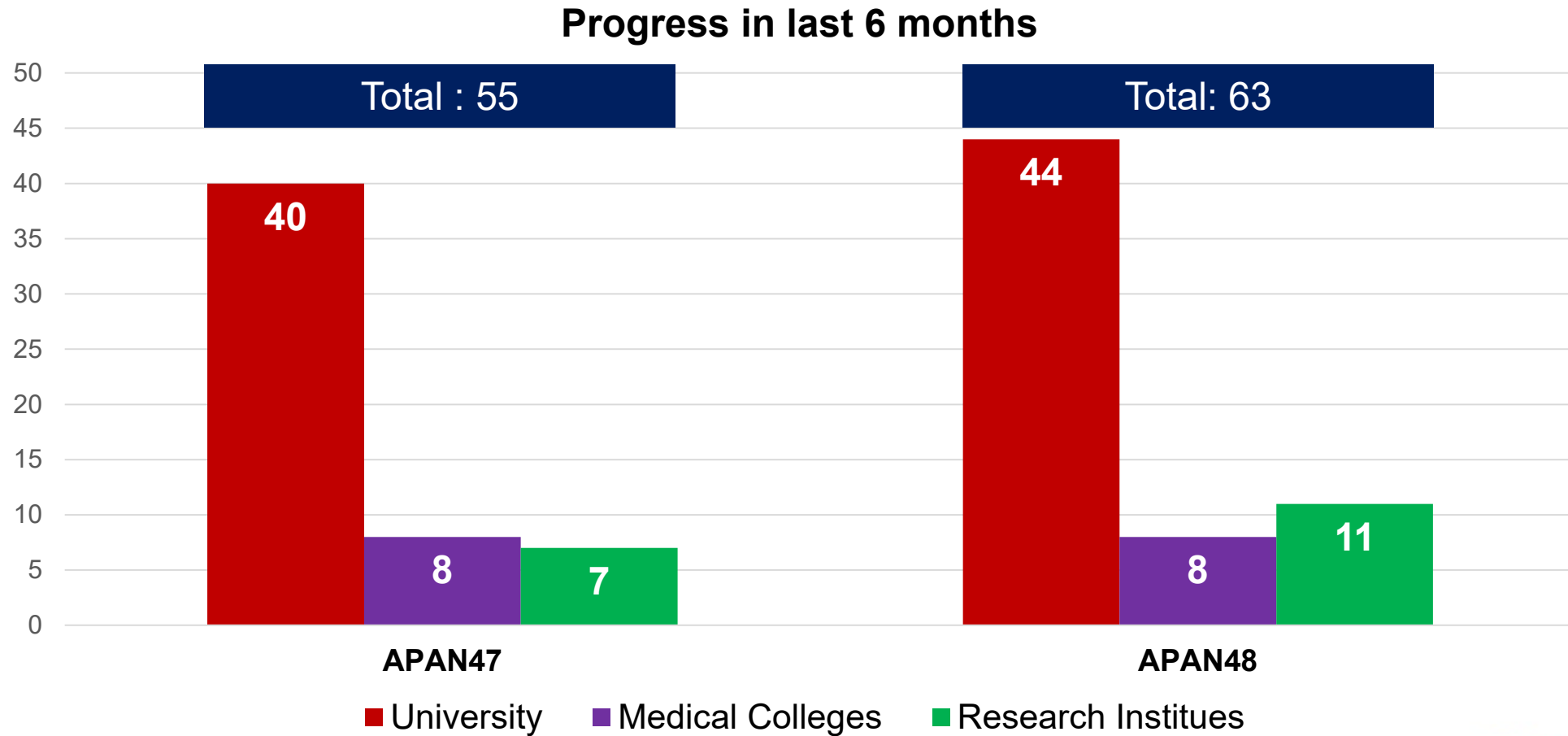
# ***BdREN - An Update***

The 6<sup>th</sup> Asi@Connect Project Meeting/22-25 July 2019  
Putrajaya - Malaysia

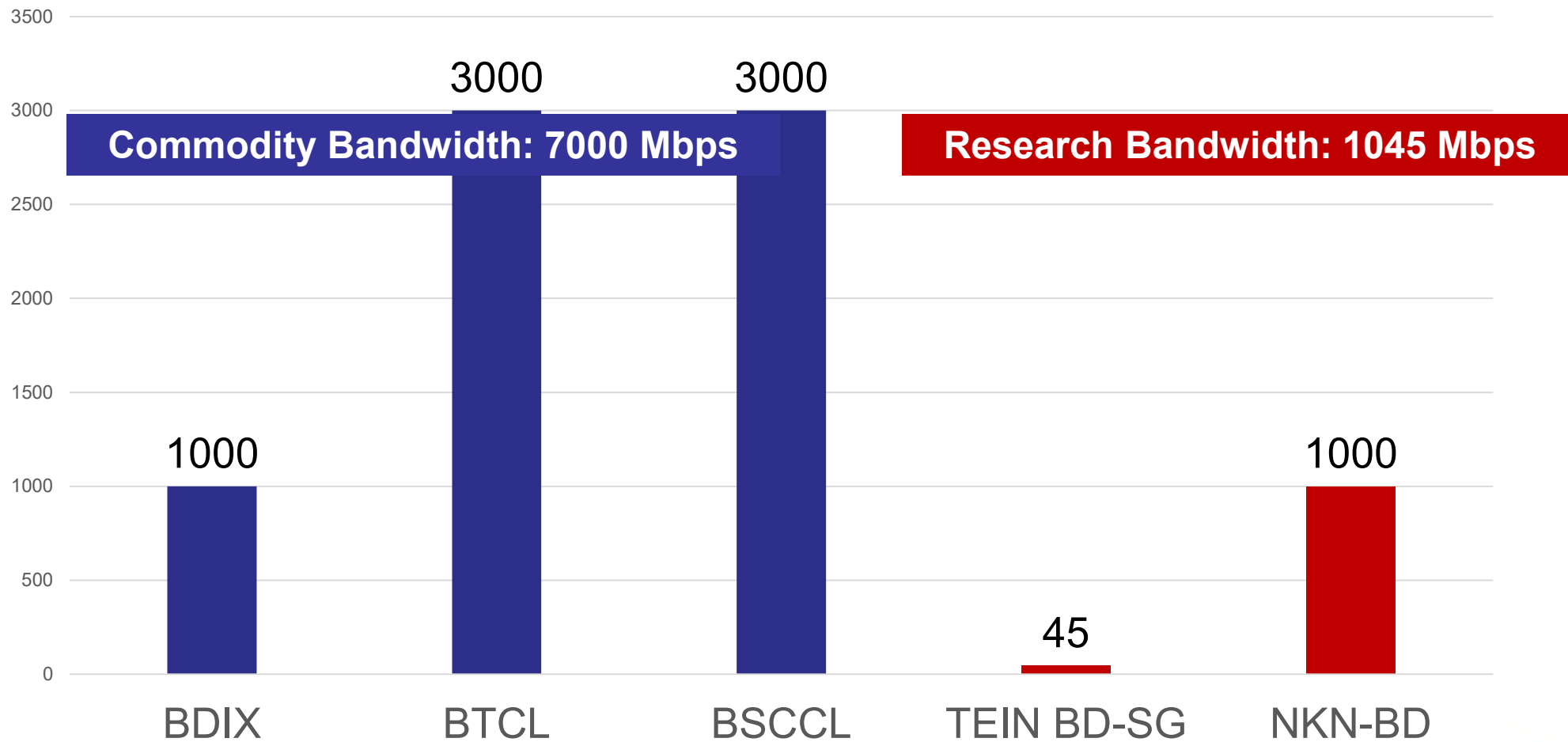
# *Legacy and Present Status*



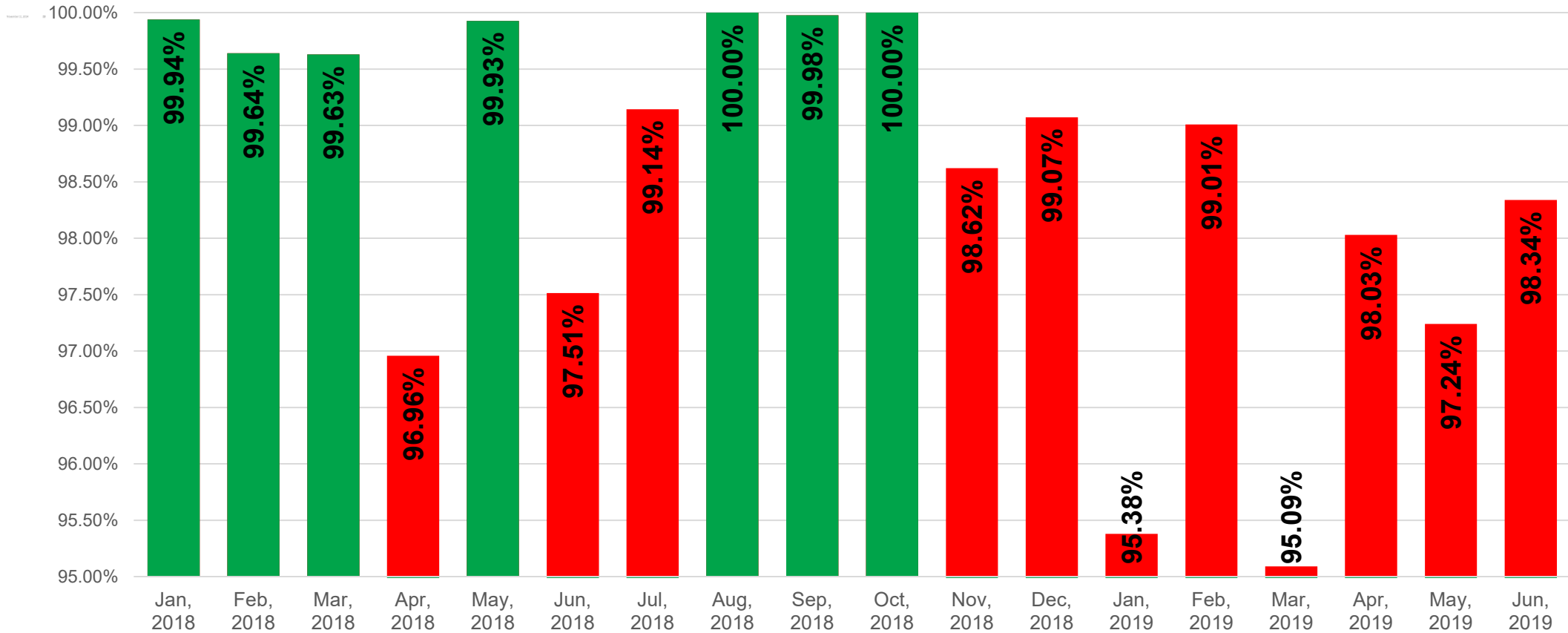
# Present Connectivity (63 Institutes)



# *Upstream Connectivity (Bandwidth Mbps)*



# TEIN Link Availability



Not Satisfactory

# ***BdREN-NKN Link***

**Link Speed:** 1 Gbps

**Link Inauguration:** 11 March 2019

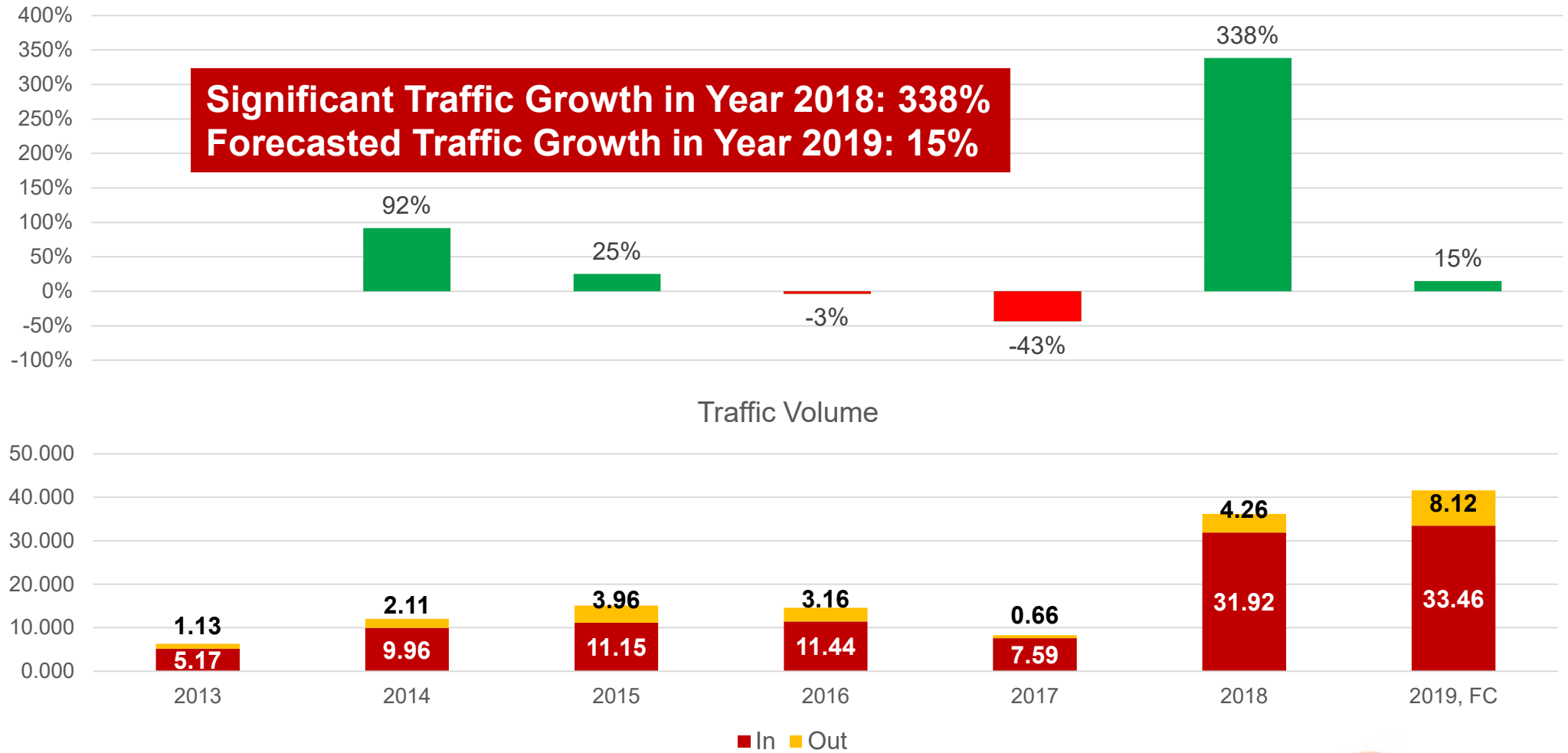
HPM (Bangladesh) Sheikh Hasina and  
HPM (India) Sri Narendra Modi

**Link Status:** Up

**Link Traffic:** Not satisfactory

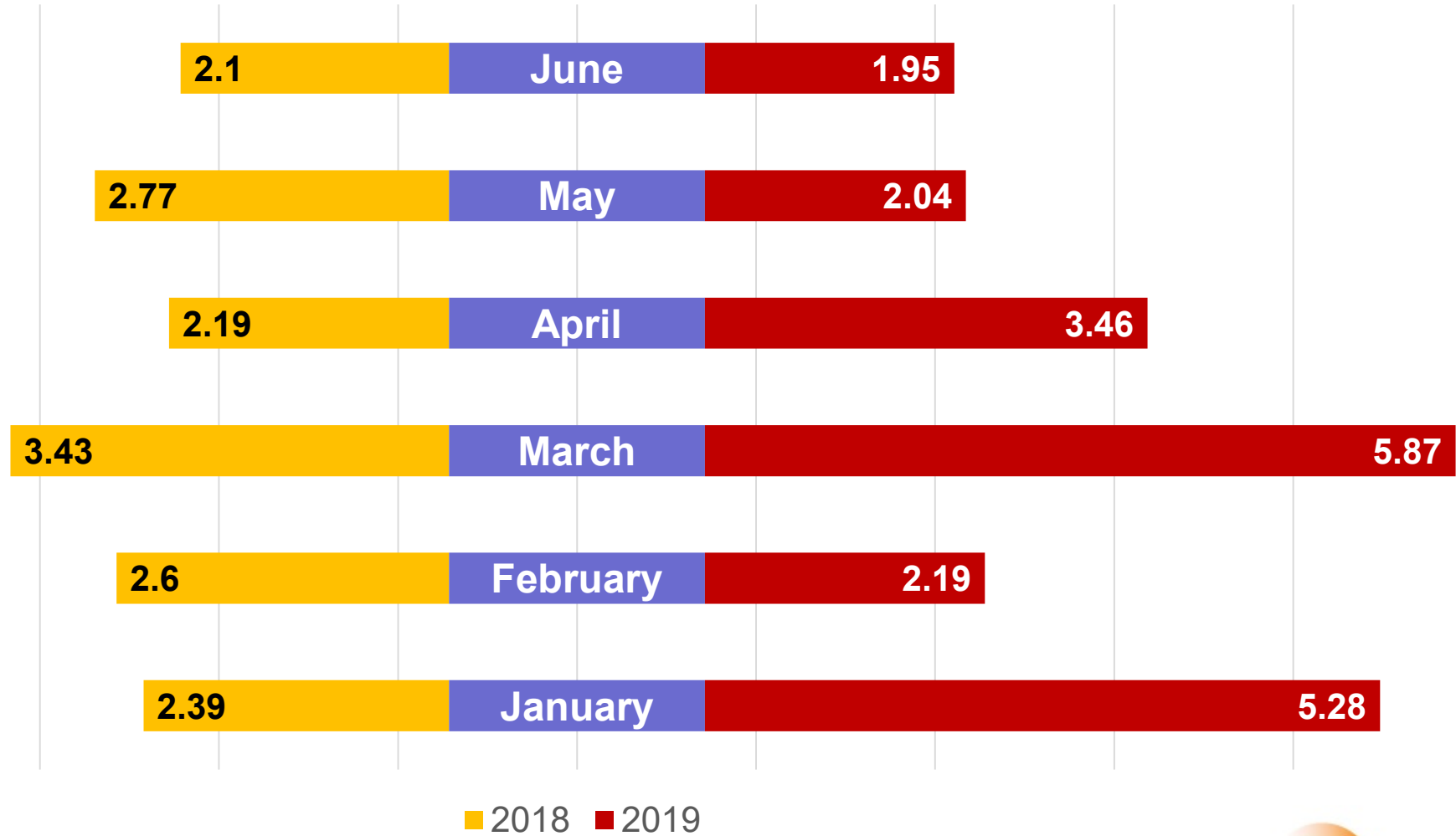
**Remarks:** Traffic not allowed beyond India

# TEIN Traffic Growth [TB]



# Comparison of TEIN Data Exchange in TB

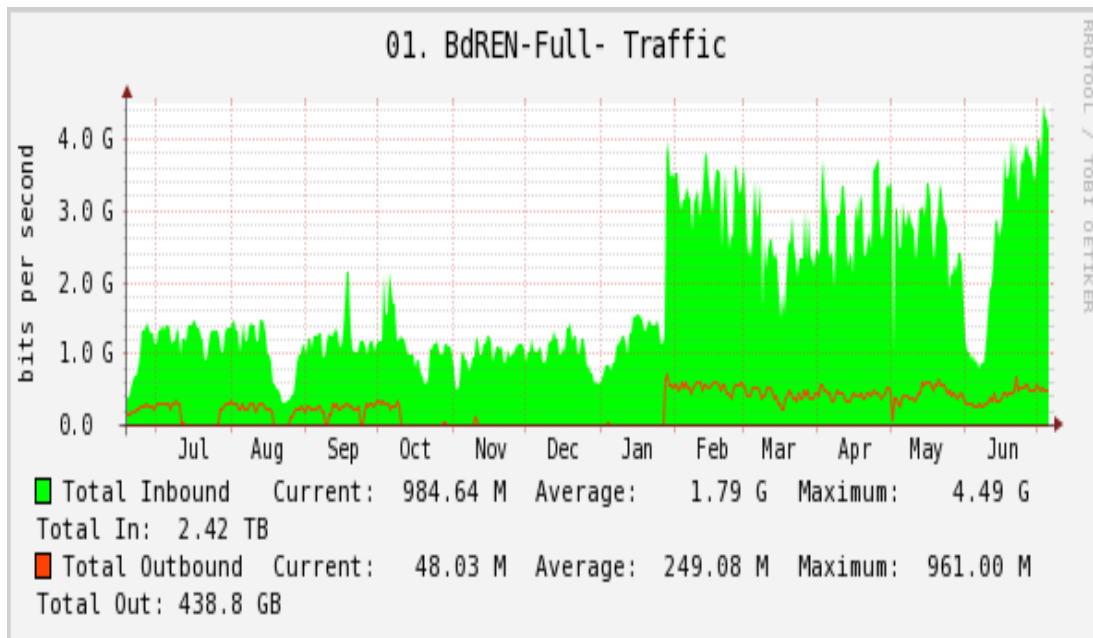
Month on Month [2018 vs 2019]



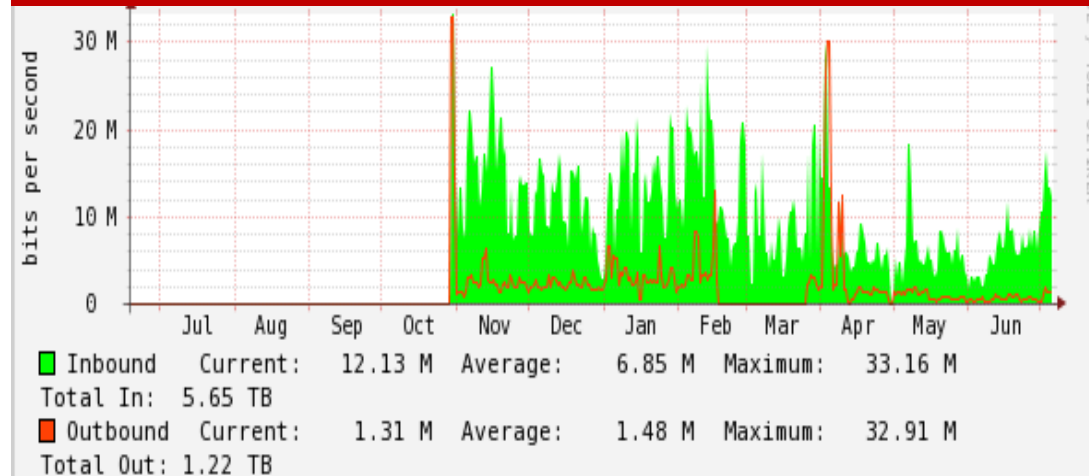


# Upstream Bandwidth Growth

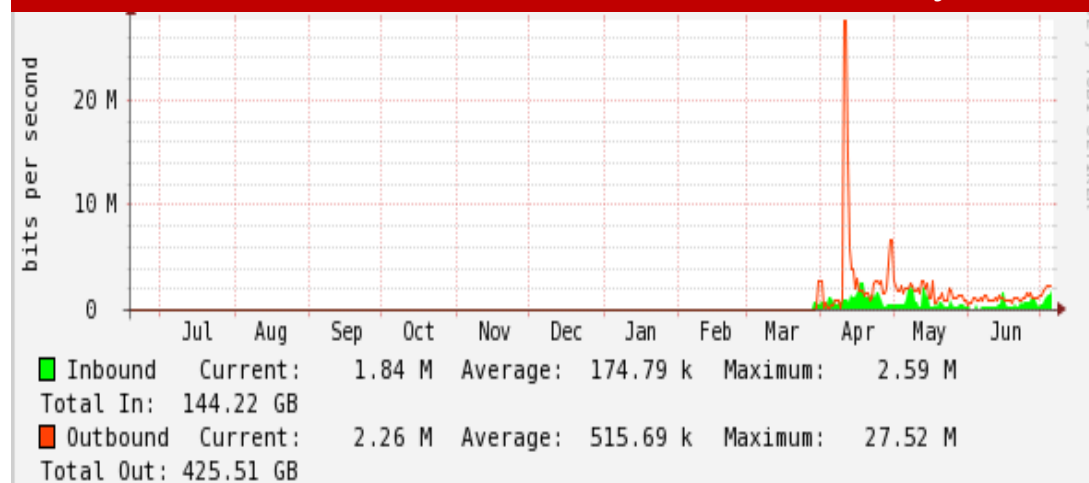
High Growth of Commodity Traffic in January, 2019  
New Charging Policy



TEIN Traffic : Stable over the months of 2019

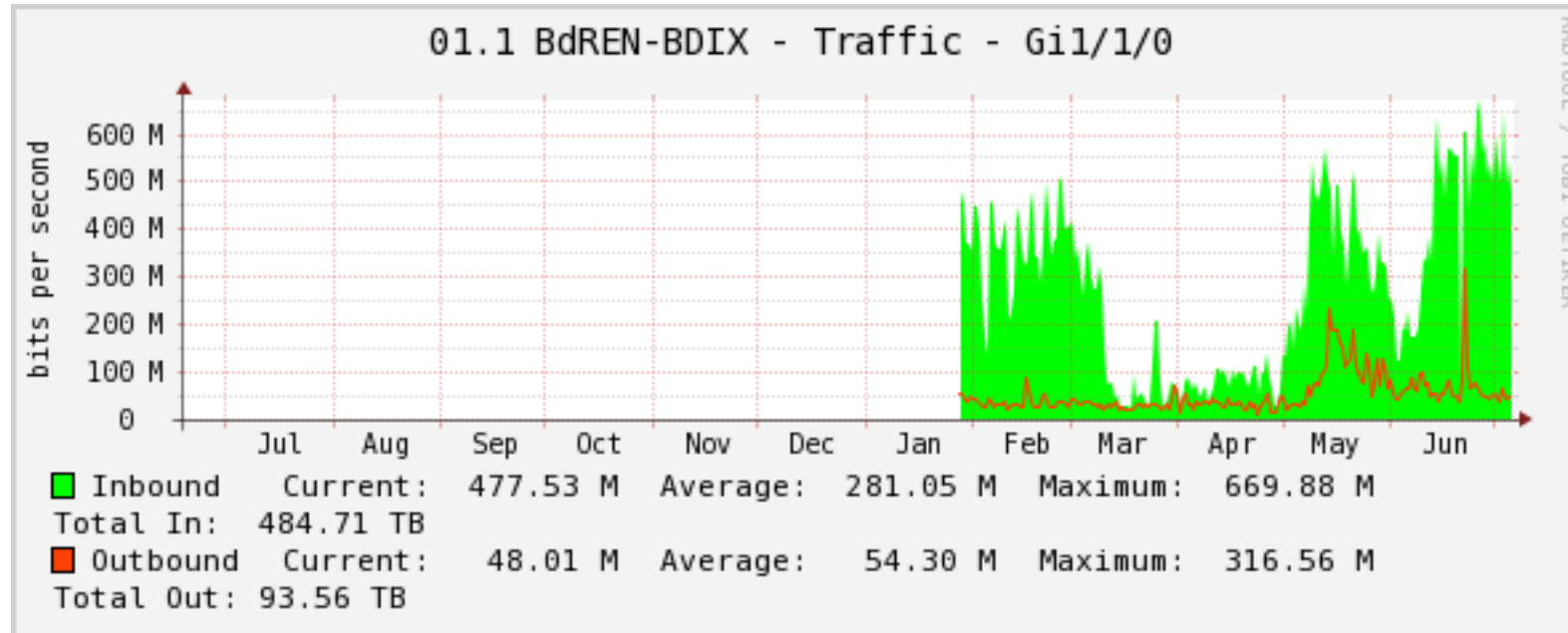


BdREN-NKN Traffic : Not satisfactory



# Domestic Traffic

Significant Domestic Internet Traffic in last few months



# Applications & Services

Internet  
Bandwidth

Redundancy  
24/7 NOC Services  
Service Level  
Agreement

Distance Learning  
Theater [59]

34 Public Universities  
3 Private Universities  
12 Medical Colleges  
10 Research Institutes

Cloud Computing  
and Applications

Virtualization Services  
Video Conferencing as  
a Service

Others

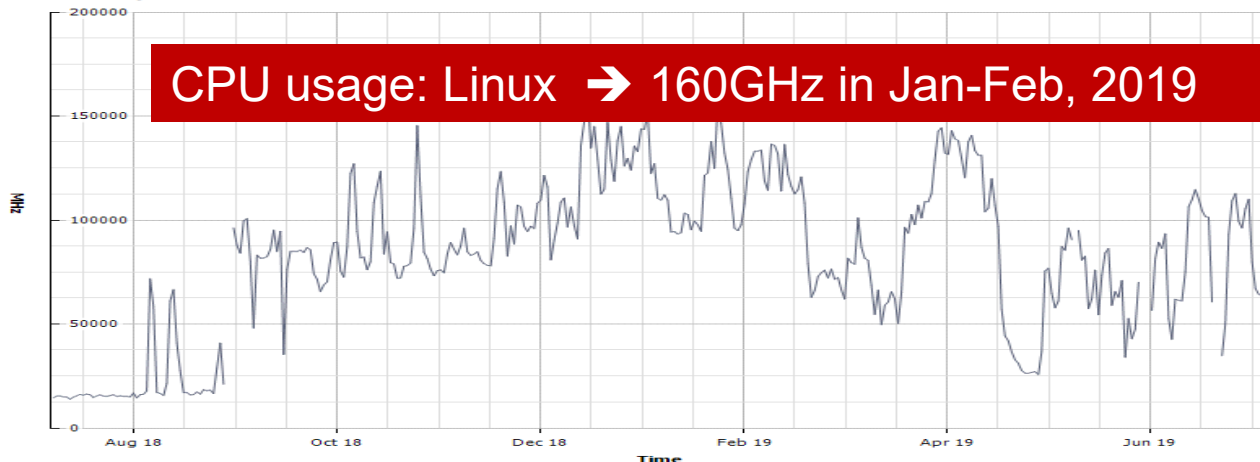
Eduroam  
Capacity Building  
Consultancy  
Collocation  
Hosting Services  
IP Telephony



# Computing Resource and Memory Usage

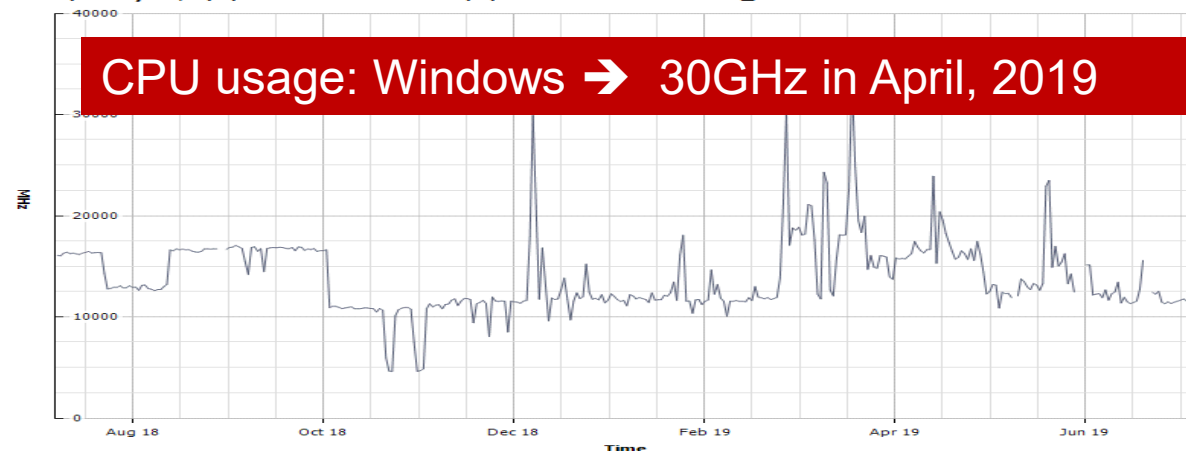
CPU/Past year, 7/8/2018 11:35:20 AM - 7/8/2019 11:35:20 AM - DC\_Linux

CPU usage: Linux → 160GHz in Jan-Feb, 2019



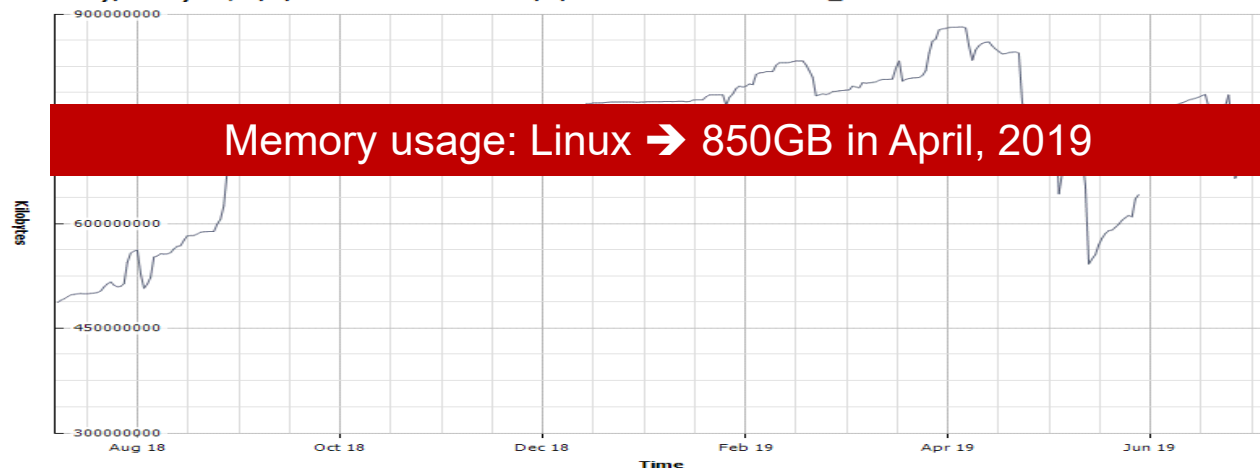
CPU/Past year, 7/8/2018 11:36:03 AM - 7/8/2019 11:36:03 AM - DC\_Windows

CPU usage: Windows → 30GHz in April, 2019



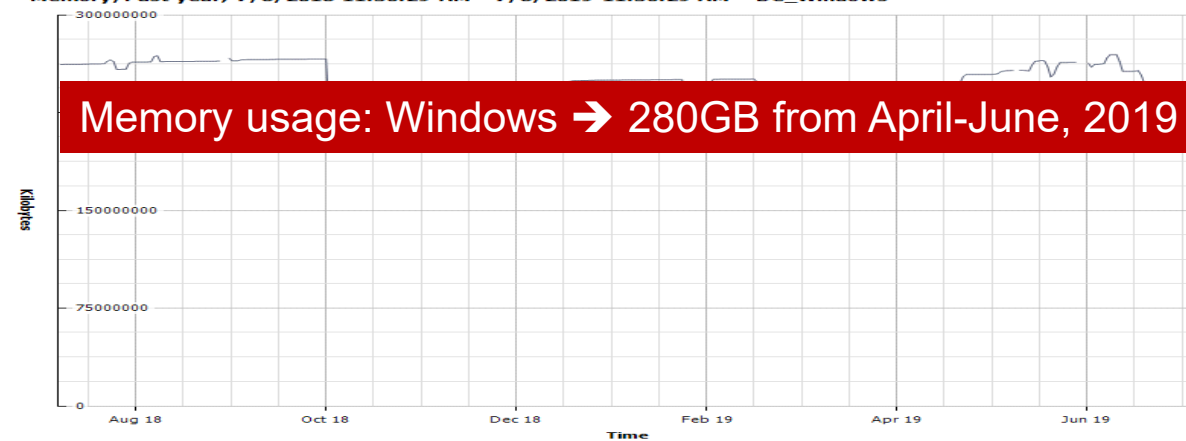
Memory/Past year, 7/8/2018 11:34:21 AM - 7/8/2019 11:34:21 AM - DC\_Linux

Memory usage: Linux → 850GB in April, 2019

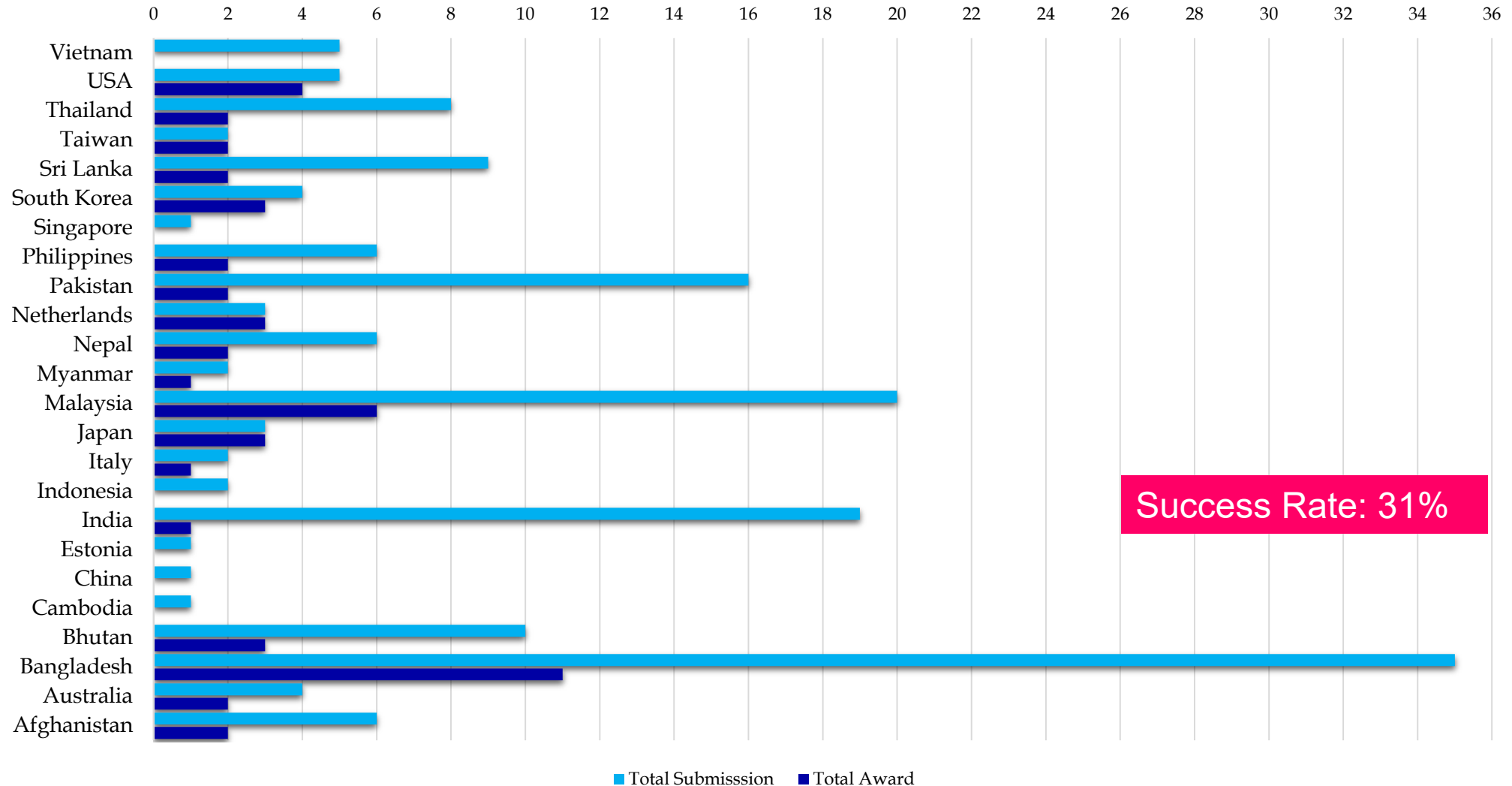


Memory/Past year, 7/8/2018 11:36:29 AM - 7/8/2019 11:36:29 AM - DC\_Windows

Memory usage: Windows → 280GB from April-June, 2019



# Success against Call for Proposals

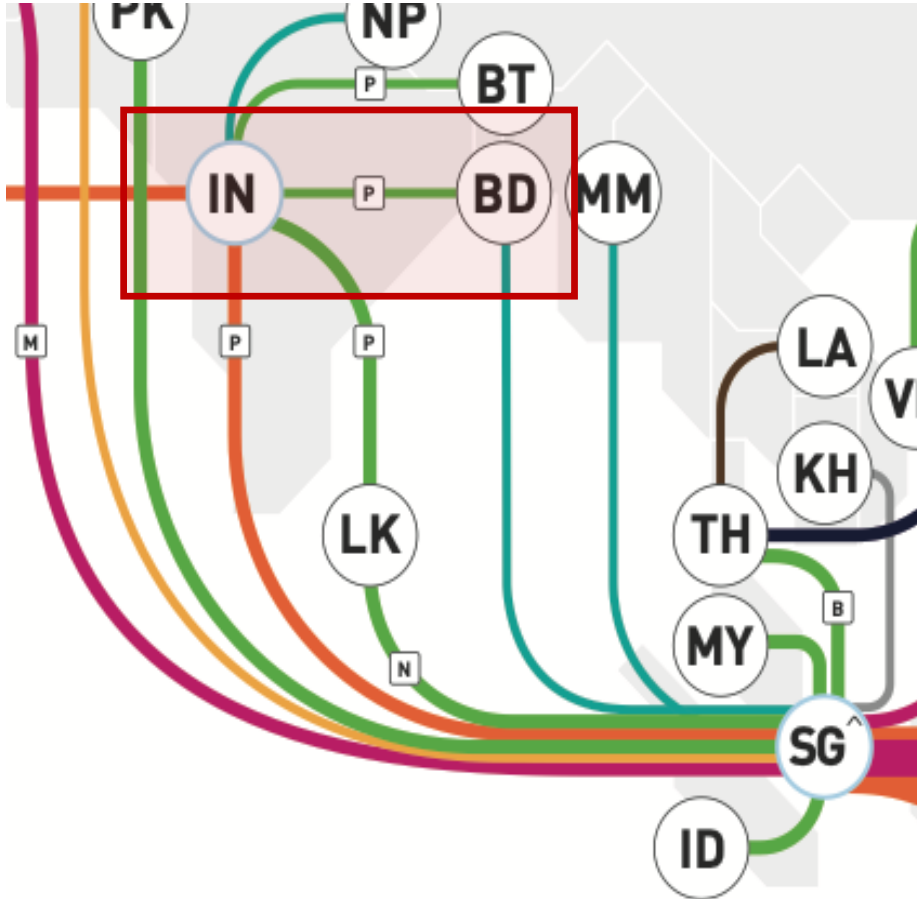


# Issues and Challenges

- Awarded project (CFP-3) awaiting signing  
“Workshop on Virtualization and Cloud Computing for NREN Engineers under Asi@Connect” – BdREN
- Release of fund for DLE project
- Membership name under Asi@Connect: BdREN
- Addressing Sustainability through:
  - Reducing Operational Expenses
  - Increasing Revenue Generation

# ***Joint Inauguration of BdREN-NKN 1Gbps Link [Dhaka]***

## ***11 March, 2019***





# ***Kickoff Meeting on Distance Learning System [Bangkok] September 2018***





## *Installation of appliance in DLE Project [Dhaka] March, 2019*



# *TTT-1 Workshop on Distance Learning System [Sri Lanka] (April 2019)*







# DigiNar Under an Asi@Connect Project

Speaker: R.S. Mani, NKN, 26 June, 2019

Recording

You are viewing MANI's screen

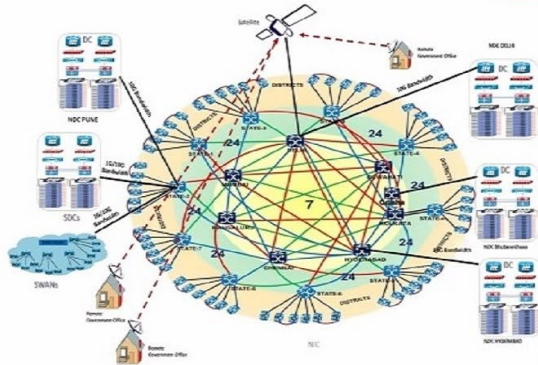
View Options

Speaker View

Exit Full Screen

## NKN- Design & Architecture

- Leased data circuits to state capitals (incl. multiple 10 Gbps connectivity)
- Connectivity from State Capitals to Districts using 34/100 Mbps/ 1 Gbps leased circuits
- Connectivity through VSAT, Lease Line, RF, MPLS, WiFi etc. at remote locations
- Connects National Data Centers (NDCs) and State Data Centres (SDCs), State Wide Area Networks (SWANs) on high speed network
- Network Time Protocol (NTP) service for highly accurate and reliable synchronization
- Provides secured VPN access to users
- Video Conferencing Services, eMail, VPN, Web Hosting, DNS, DDOS etc.



Karma Jamyang



Md. Ibrahim Kha...



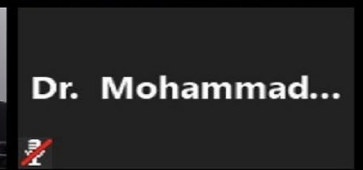
Bangladesh Res...



MANI



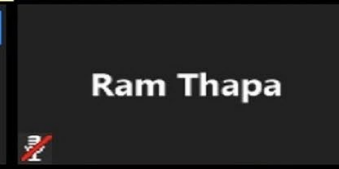
BdREN UGC BD



Dr. Mohammad...



RINCHEN



Ram Thapa



fawad (PERN)



Naveed Tahir (P...)



lochan amatya



Dawa Phunsum...



Suhas Ranjan



Abdulla Chattha



Syed Galib

Unmute Start Video

Invite

Participants 15

Share

Chat

Record

Leave Meeting



# DigiNar Under an Asi@Connect Project

Speaker: Douglas Harre, REANNZ, 03 July, 2019

Zoom Meeting ID: 682-708-751

Recording

Md.Ibrahim K... javed Mohammad T... Md. Sajidul Isl... BdREN UGC BD manoj (Nepal)

Douglas Harré

Unmute Start Video Invite Participants 16 Share Chat Record Leave Meeting

10:25 AM 7/3/2019



# DLE Project Under Asi@Connect

Lecturer: Dr. Kasun De Zoysa, UCSC, Date: 13 July, 2019





Thank you!

