

NREN update

Nepal Research And Education Network Lochan Lal Amatya

The 6th Asi@Connect Project Meeting/July 22, 2019

White House, Universiti Putra Malaysia (UPM), Putrajaya, Malaysia







Organization

Nepal Research And Education Network nren.net.np



- Number of member institutions (connected NREN) : 26
 - Universities 2
 - Colleges 9
 - Medical Institutions & Hospital 10
 - Research & Gov. Institutions 5
 - Upcoming in near future: 5
- Backbone : TEIN 45 Mbps
- Eduroam deploy: 12

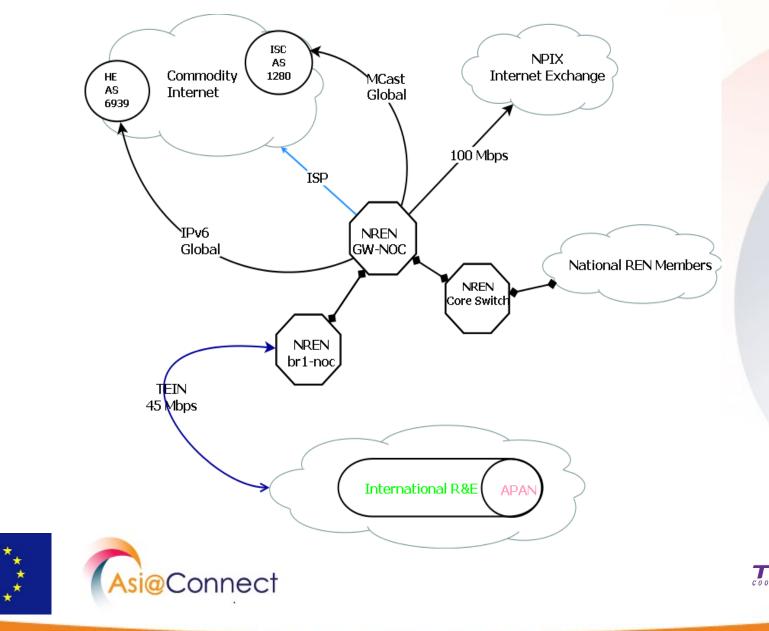








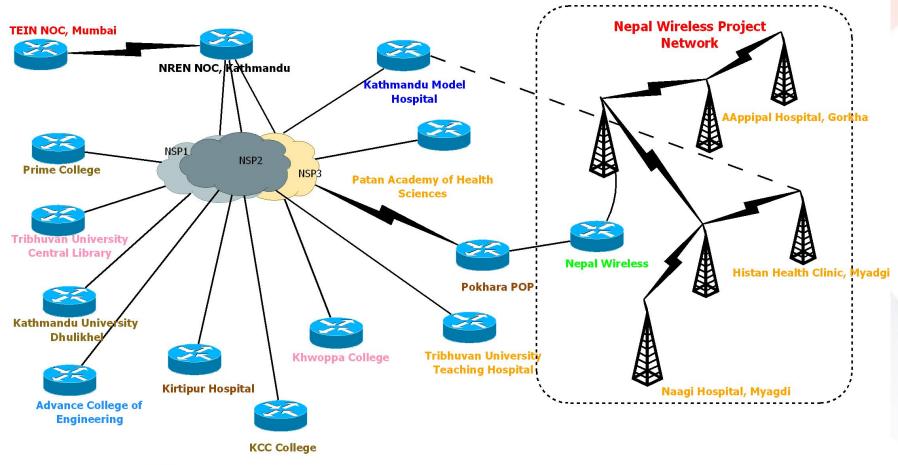
Network update





National REN

Nepal Research & Education Network









Activity update : Eduroam

- Started in 2016 under XEAP project eXtending Eduroam in AP Program
- As an NRO, help institutions to set up Eduroam services. Connected 12 NREN members.
- NREN Support

 Training, funding and support to member institutions
 .np Peering for institutions that have their own
 RADIUS infrastructure
 Providing hosted RADIUS on NREN cloud
 Providing Turn-Key Solution
- Future Programs:

Tools for monitoring and providing statistics More institutions Provide hosted RADIUS and more trainings Open for anyone to join Deploy at Public Areas













Inter-hospital sharing

- About 50 Hospitals and Health Posts are connected in this sharing sessions
- Hosting Inter-hospital sharing sessions in a fortnight basis.
- Each session consisted two presentation related to clinical and medical informatics
- Preparing for 12th inter-hospital sharing

Asi@Connect





- Mobile phone based non mydriatic camera
 Attached to inhone
- Attached to iphone
- Permits image capture and upload to server





UREN Connect GDLN distance learning seminar

The KDI School Blended Learning Program

- Policies for balanced development and decentralization
- Global smart city in Busan
- Local government transformation strategy
- Korea's new administrative city, Sejong
- Performance evaluation of Civil Servants and Incentive Systems in Korea
- Collaboration and Innovative Leadership in Government – A case of Digital Government Development in Korea.
- Performance Management System in Government at the Agency Level in Korea
- Performance Management System of Budgetary Programs in Korea
- Presentation by each DLC







GLOBAL DEVELOPMENT LEARNING NETWORK

GDLN









Urban Dabali online

Online Platform for Sharing on urban issues

- Partnering with various organizations working in Urban Development
- Webinar on eclass.nren.net.np and bdren- zoom platform
- Stone Spout Conservation and Rainwater Harvesting and Groundwater Recharge
- Fukuoka Method Solid Waste Management
- Earthquake Housing Reconstruction on Urban Areas of Nepal









Capacity Building of Network Engineers

- Monthly Knowledge sharing meeting among Network engineers of NREN member organizations.
- •Eduroam workshop and hands-on training
- •Telemedicine Engineering

Training



NREN





NREN's Support for Municipality Association of Nepal (MUAN)

MOU has been signed with MUAN

- collaboration for strengthening ICT capabilities of Nepalese municipalities,
- advocacy for the development of high-speed national municipal network,
- efforts for better sharing, networking and learning between and among the municipalities across Nepal and abroad.



Strengthen Technical Capability of Provincial Municipal Learning Centers (PMLCs) and Municipal Association of Nepal (MuAN).









NREN's Participation

- 5 Participants in Masters in Cyber Security in Colombo. – LEARN
- 25 Participants in Cyber Security online course BDREN
- Different Talk Programs of MUAN
- Workshop on "Building Digital Nepal Role of ICT professionals" organized by Society of Electronics and Communication Engineers Nepal. NREN's keynote paper on Importance of Research and Education Network for Digital Nepal.







Activities in pipe line

- Expand NREN connectivity in all 7 provinces of Nepal Feasibility Study under support of Asi@connect is in progress.
- Establishing Broadband Network to Everest Area
 Procurement of optical fibre is in progress
- Connecting 1GB NKN Network
- Follow up with ministries of Nepal
- APAN49 Preparation







NREN's Challenges and Opportunities

- Bandwidth constrain
- Budget constrain

O&M of NPIX Monthly Fees from NREN Network users Bandwidth Fees

- Usage of NREN network for Research and e-learning
- E-learning environment (eclass, Video Conferencing, ZOOM)
- Increasing Partnership for different Activities for Development of Digital Nepal
 - MUAN, SECEN, Women in IT, CAN, ITPF











