1,919,954,215

the number of online free education minutes

LEARN Lanka Education and Research Network SANOG 37 Colombo, Sri Lanka - 12 July - 16 July, 2021

Lessons Learned from Covid-19

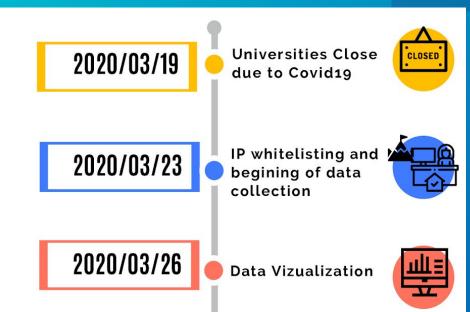
Emenging NRENS' Perspective

Roshan Ragel, BSc Eng, PhD



It all started with ...





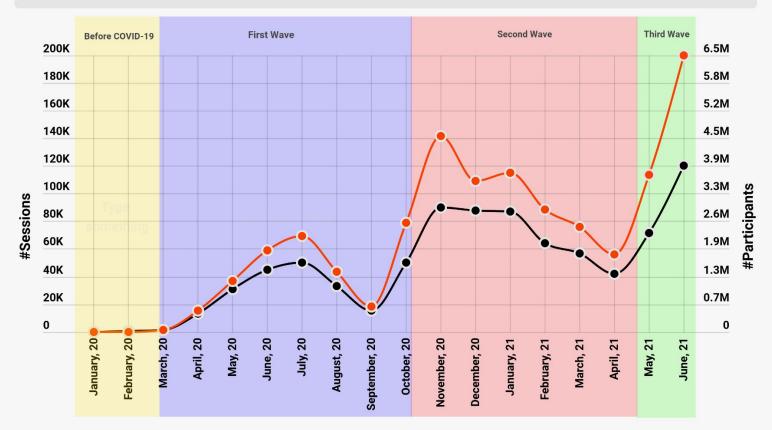
Arguably, the first ever online "free education" effort

📃 Oshada Senanayake, GM, TRCSL

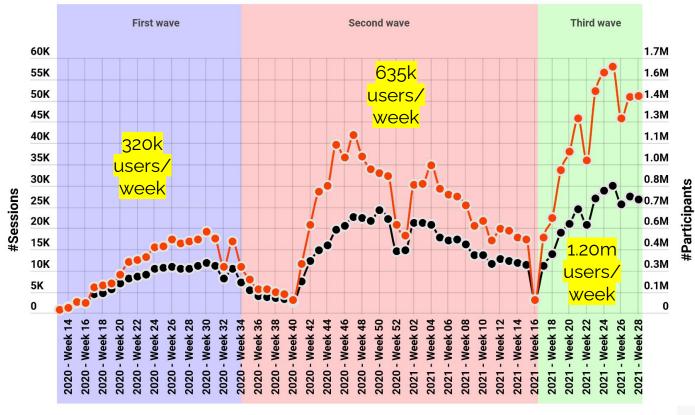
Covid-19 and LEARN Going Online

- NREN members had the required minimum infrastructure for delivering courses online when Covid-19 hits us.
- LEARN Vcon solution:
 - On-premise Zoom setup was completed by LEARN in two weeks into the lockdown providing free data access for online synchronous lectures and meetings.
 - Weekly participants pre-COVID19 were about 200 and the numbers increased to 20,000 (100x) in the first week into the lockdown and reached a peak by recording of 1.64 million (8200x) weekly participants.
 - Peak time usage is around 250 thousand daily users (with about 100 thousand simultaneous users) with more than 4000 daily meetings.

Monthly Video Conferencing (LEARN.Zoom) Activities January, 2020 - June, 2021



Comparison of Weekly Synchronous (LEARN.zoom) Activities between First, Second and Third Waves From 23rd March, 2020 to 11th July, 2021





6

857,856

Meetings

40,000,000+

Participants

1,919,954,215

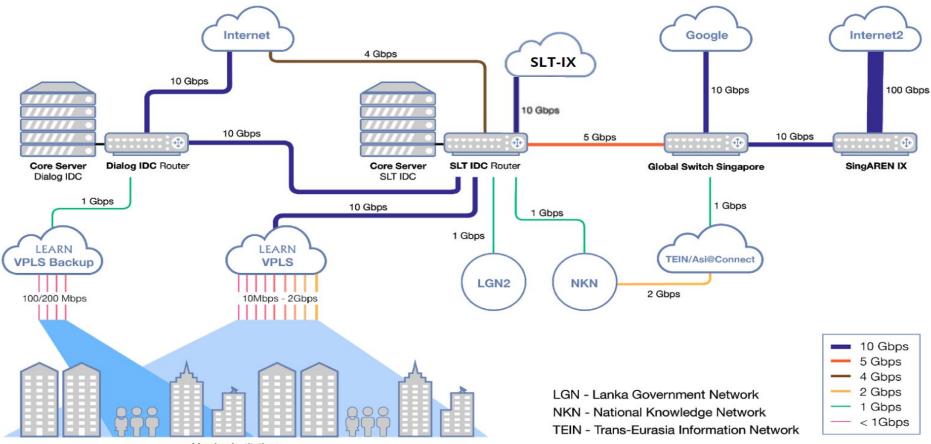
Minutes



Flipped NREN

Challenges

FLIPPING the NREN Network!



Member Institutions

S Flipped NREN

Study from Campus

- Focus is on the campus infrastructure
- Network is mainly used to access material from outside the NREN Network
- IX is less important

Study from Anywhere

- Focus is on national infrastructure
- NREN network
 becomes the major
 content provider to its
 users
- IX plays an important role

\bigcirc Challenges

- National infrastructure are already limited by the increased data usage by the citizens
 - For example, about 50% increased data consumption in Sri Lanka
- Education is divided by the digital divide of the country and the economic disparity of its citizens
- NRENs are exhausted with their resources
- Requirement for more services in education and research (vcon, lms, simulation platforms, teaching/learning/assessment tools, etc.)



Flipped NREN

Solutions





+ Adding a server pool for On-premise VCon

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(LEARN members only)





Government/TRC Setting aside a Rs 15 billion budget (\$200m) for 2021/22 for the "Connect Sri Lanka (aka Communication to the village" Project





University Grants Commission (UGC)

- Invested Rs 200 million (\$ 1 million) short term on IT Infrastructure
- People's Bank and
 University Grants
 Commission (UGC) tie up
 to provide laptop loans to
 undergraduates (~Rs. 3
 billion = \$ 15 million)



Presidential Task Force on Education

University Grants Commission's Standing Group on IT Infrastructure and Online Education



Covered under Dr Asitha Bandaranayake's Keynote at LKNOG5 titled

- 1. Equity or justice for all
- 2. Provide more for less
- 3. Reimagine NREN's role

connect. communicate. collaborate

Reimagining The National Research & Education Network: Opportunities & Challenges



Covid-19 is a silver lining for emerging NRENs

- Established the need of NRENs
- Brought different parties together
- Put the NRENs perspective upside down => Flipped NREN
 - Reforming the perspective of education
 - Identified the need for national level development
 - Identified the need for collaboration between NOGs, NRENs, Policy Makers, Government, etc.

Phank you!

ANY QUESTIONS?

You can find me at: <u>consultant@learn.ac.lk</u>