# 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

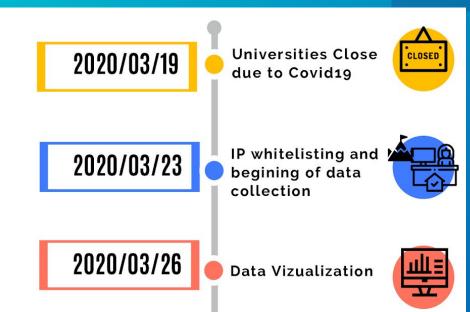
# Emenging NRENS' Perspective

Roshan Ragel, BSc Eng, PhD



## It all started with ...





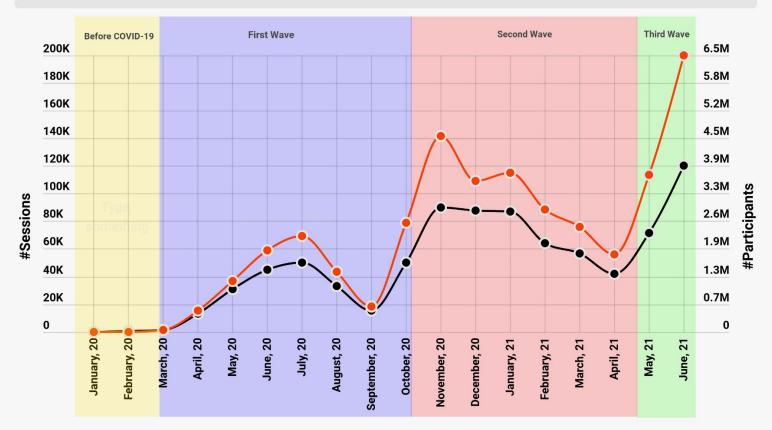
# Arguably, the first ever online "free education" effort

📃 Oshada Senanayake, GM, TRCSL

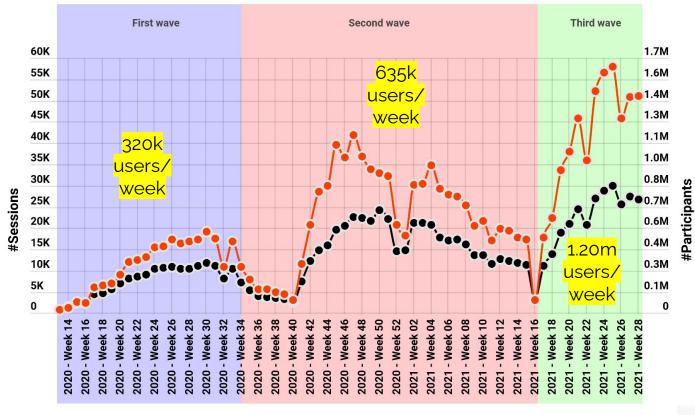
### Covid-19 and LEARN Going Online

- 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 23<sup>rd</sup> March, 2020 to 11<sup>th</sup> July, 2021





6

# 857,856

#### Meetings

# 40,000,000+

#### Participants

# 1,919,954,215

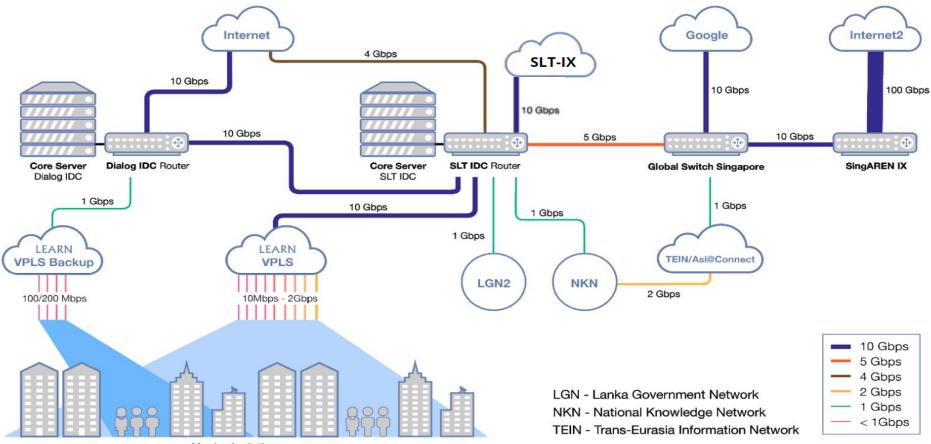
Minutes



# 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

## **LEARN's Solutions**

## "Free Academic Network and Internet Access"

for eduRoam account holders

from more than 100 hotspots around the country

- Main railway stations
- Bus stands
- Hospitals and etc.

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eduROAM, eduGAIN ...??

Then.. Sign Up for eduID



and get Microsoft Teams,

ms.ac.lk email, eduROAM, eduGAIN...

all for one username/password and FREE

(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>