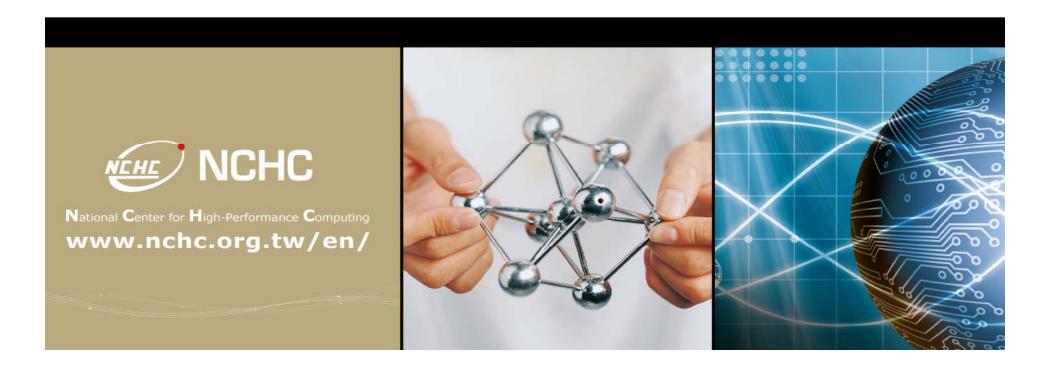
# **TAIWANLight Update**

Li-Chi Ku NCHC, Taiwan



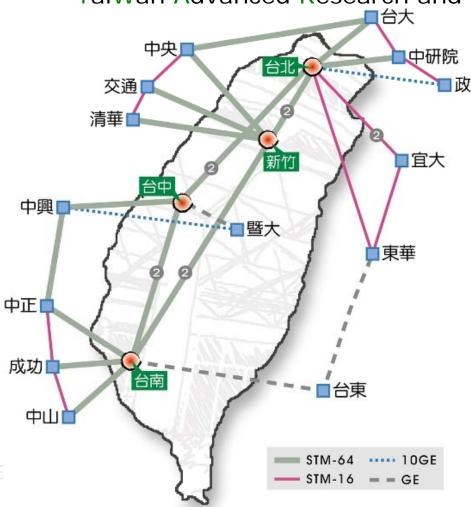






#### Domestic Network: TWAREN

TaiWan Advanced Research and Education Network



- 4000 schools, 96 colleges / research organizations
- 5 million users
- 4 core nodes
- 20G backbone
- 12 GigaPops
- 1 access node
- Connects HPC resources
  in North and South Taiwan
- Built-in fault-torelence







#### TWAREN's International Connections

- 5 Gbps Pacific Crossing to USA's west coast
- Connections between LA, Chicago, and New York are 2.5 Gb/s
- Connects to the rest of the world via the U.S.'s Abilene Network
- Connection expanded to Europe in 2006 (622 Mbps)

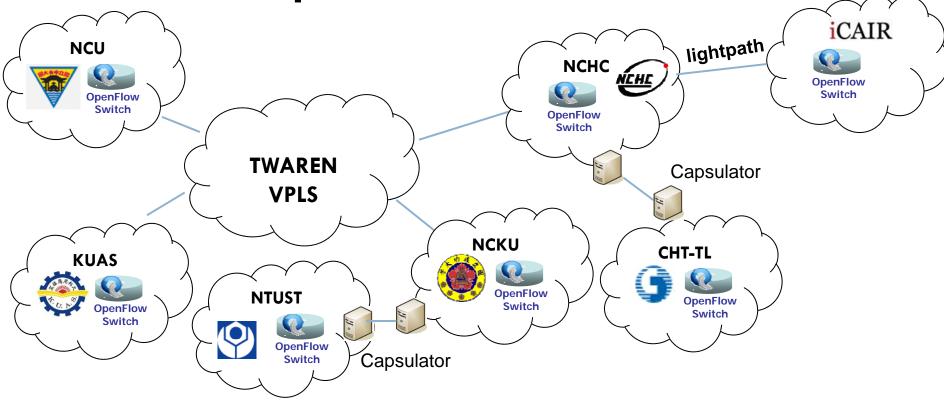








TWAREN OpenFlow Testbed



- NCKU, KUAS, NTUST, NCU and CHT-TL joined the Testbed.
- •The OpenFlow Testbed is extended to iGENI@iCAIR and HPDMnet







## **Emulab/ProtoGENI Testbed**

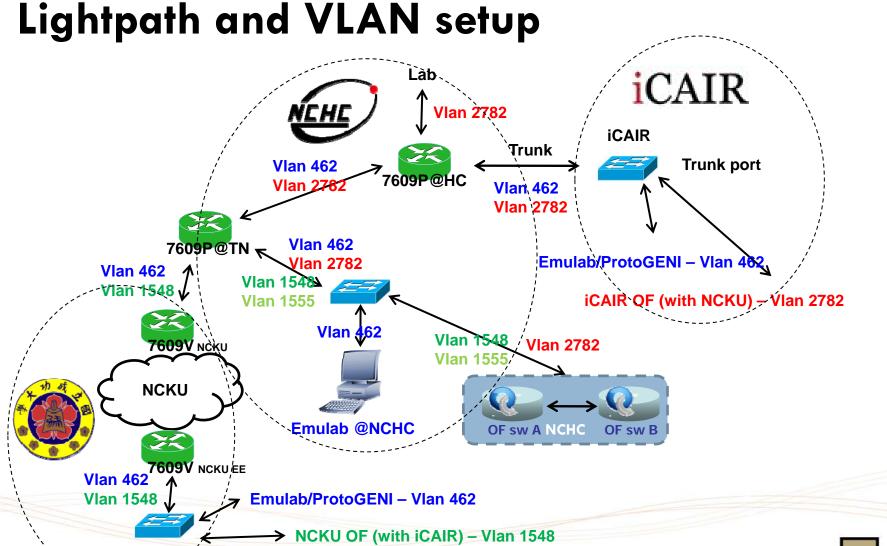
- TWISC (Taiwan Information Security Research and Education Center) operats 206 nodes of Emulab Testbed in Taiwan.
  - Third largest Emulab in the world
  - Testbed@TWISC is operated by NCKU team and co-located in NCHC
- A portion of the testbed is planned to try ProtoGENI test with University of Utah.
  - A lightpath is provisioned between NCHC and iCAIR shared by both OpenFlow and Emulab/ProtoGENI

















### iGENI - Taiwan Integrated Research Network

