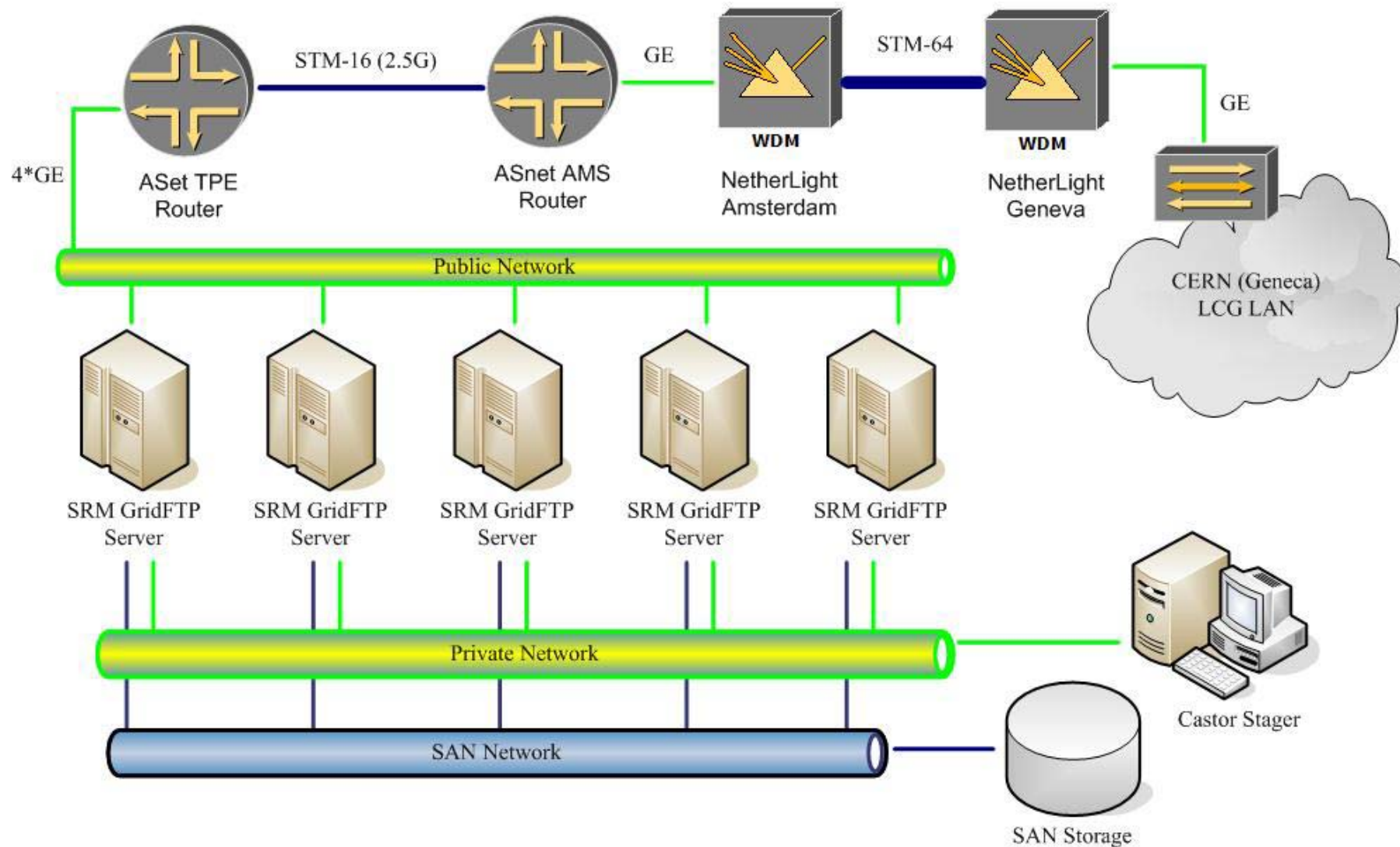# TW LCG Network
Status Update

Yu-lin Chang

Academia Sinica, 2005/04/08

SC test bed @ Taipei

Taipei Status

- ASNet* runs one STM16 IPLC from Taipei to Amsterdam

- One GE Local loop from Amsterdam to Geneva (via NetherLight LightPath Service), second GE is waiting to turn on (I already signed the xconnect order form)

- will double the IPLC on July 1st (contract will be signed on May 27th)

- ASCC LCG facilities now have multiple GE uplinks to ASNet's core router; will be replaced by one or two 10GE during this summer vacation

- ASNet connects (10GE*2 + STM64*n) to domestic backbone, a.k.a. TANet/TWAREN joint backbone, to reach T2's in Taiwan.

- Every T2 in Taiwan has it's own 10GE link to the domestic backbone

* ASNet (Academic Services Network, as#9264) is the network division and is also the network name that registered in APNIC.

Asia Pacific Link Status

- How many T2s in Asia Pacific region?
- Taipei – Tokyo
  - STM-4 IPLC
  - 2*GE to APAN-JP (for JP Universities)
  - Will have GE to SiNet/SuperSiNet (for KEK)
  - IPLC should be increased before LCG production run.
- Taipei – Singapore
  - STM-1 IPLC to SingAREN (National Grid Office of Singapore)

Asia Pacific Link Status

- Taipei – Hong Kong
  - STM-4 IPLC, will upgrade to STM-16 on Feb 1st, 2006 (contract already been signed on March 30th)
  - GE link to CERnet, GE link to CSTnet
    - CERnet : China Education and Research network
    - CSTnet : China Science and Technology network
  - Maybe have GE link with KOREN (still work with KOREN engineer)

Technical Issues

- LightPath
  - How urgent is it for the lightpath between T1 and T2 ?
  - Today, there is no lambda can be brought in AP region (there is only SDH circuits) because of the design of cable systems
  - Can MPLS L2 VPN and/or premium IP services provide same (or almost the same) quality compares to LighPath in the LCG environment ?
  - Even though, ASNet is still surveying the WDM equipments

Technical / Financial Issues

- ## Taipei to other T1s
  - ### Interconnections
    - Via GEANT2 and Abilene ? Or dedicated links ?
    - Performance ?

- ## Taipei to AP region T2s
  - Cost sharing module should be setup ASAP.