

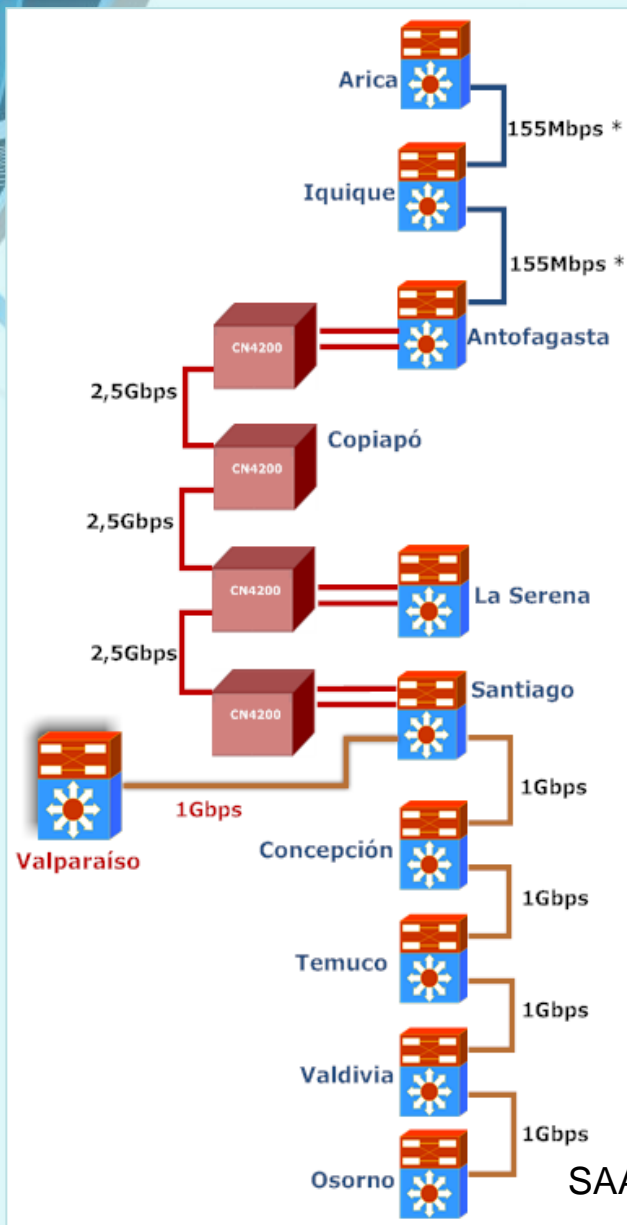


REUNA

Digital Platform for the Research and Education in Chile

Sandra Jaque, Gerente Tecnología y Operación
www.reuna.cl

2011: Using synergies to build the network



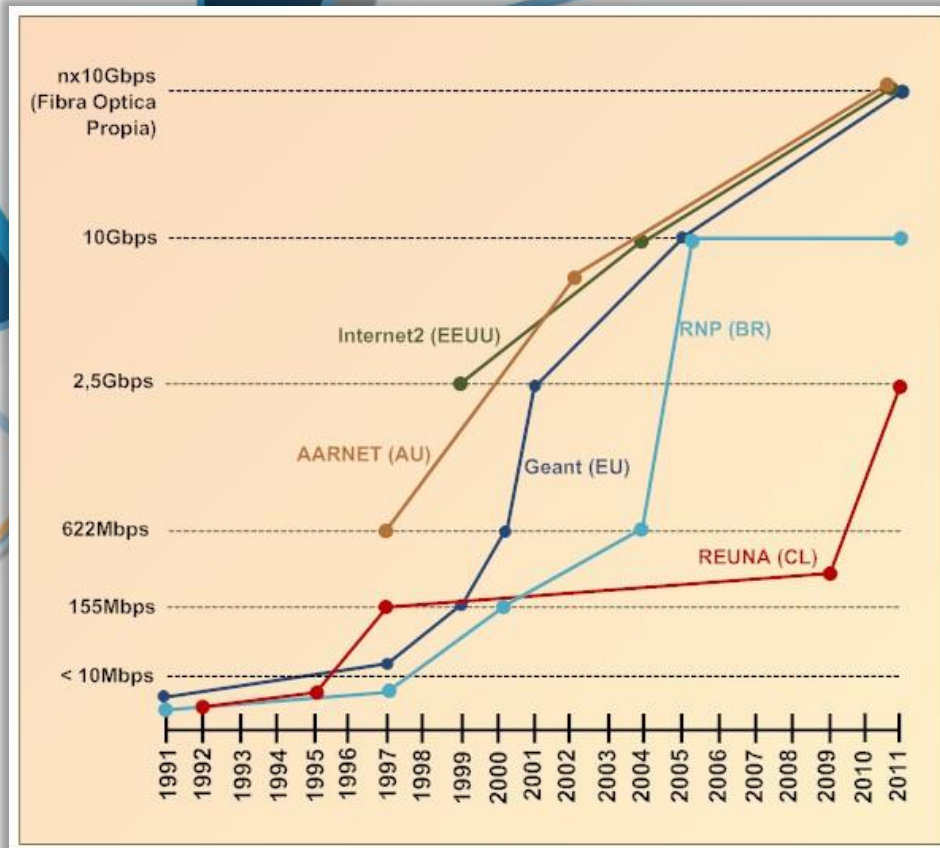
SAAC August-2012

REUNA's network since 2011

- ❖ Backbone: 2,5Gbps, 1Gbps
- ❖ Added an optical layer (DWDM)
- ❖ EVALSO project, key driven for this achievement



Enlargement of the Collaboration



Relevant e-infrastructure improvements



Main astronomical observatories in REUNA



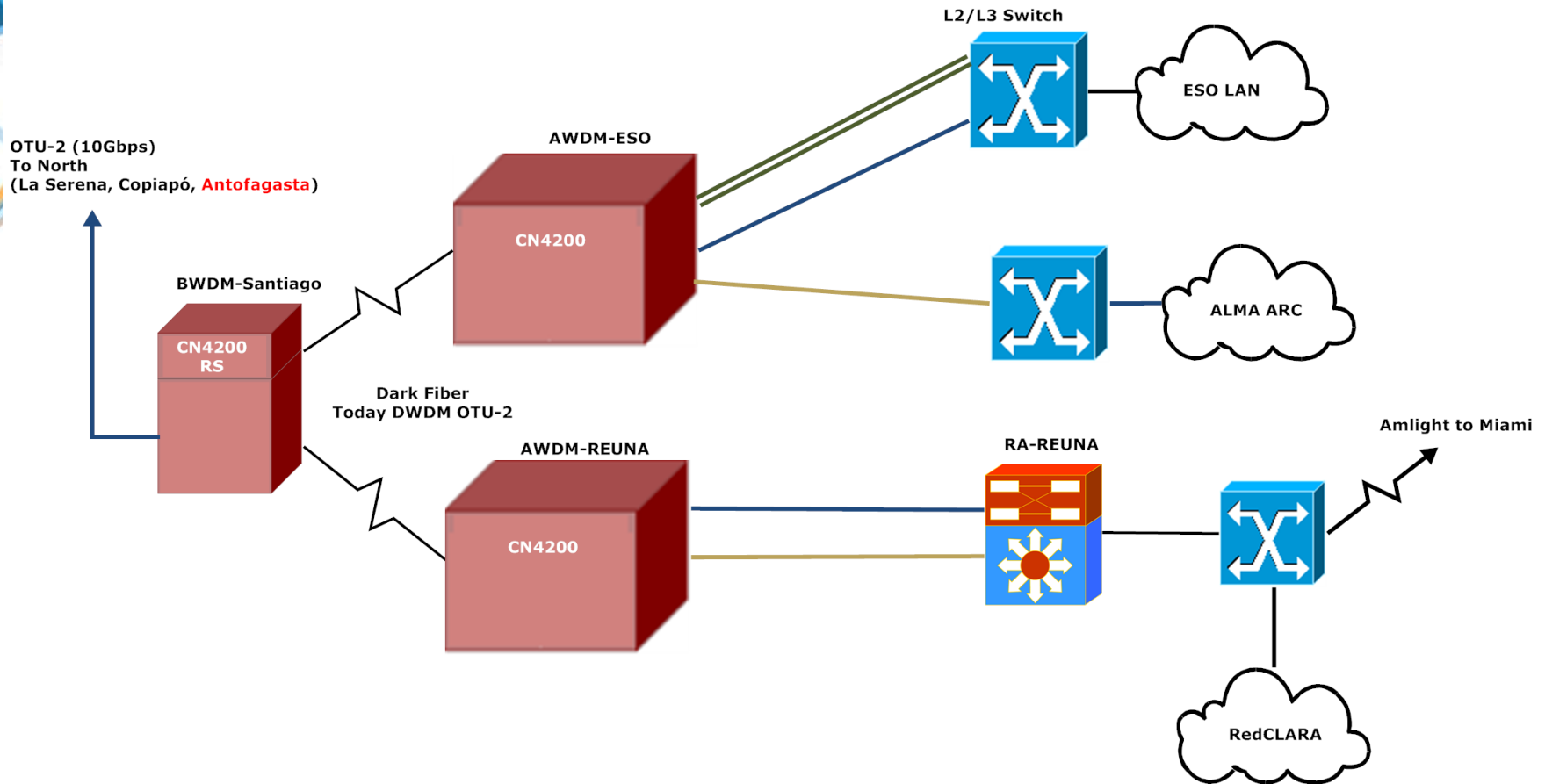
New partners

- **2011** a new backbone node **Valparaíso**

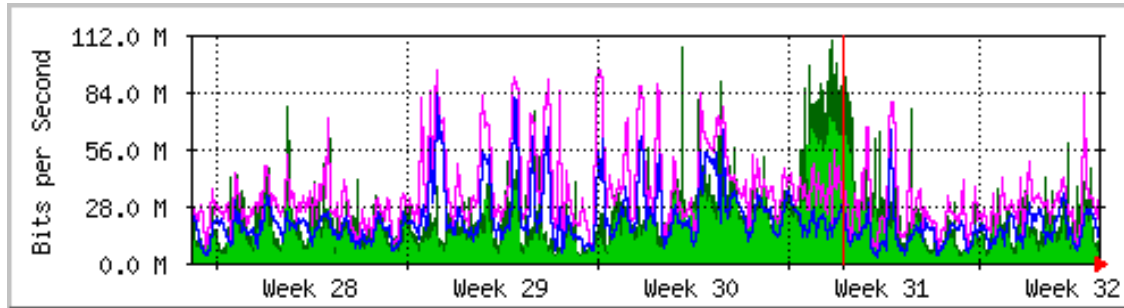
AccessNova 2012



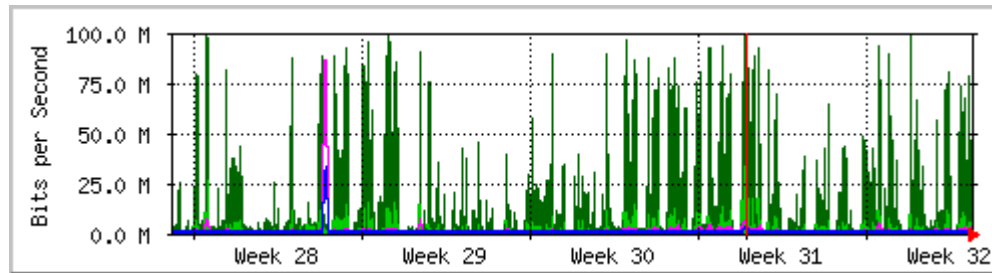
Santiago DWDM network



Some traffic graphs

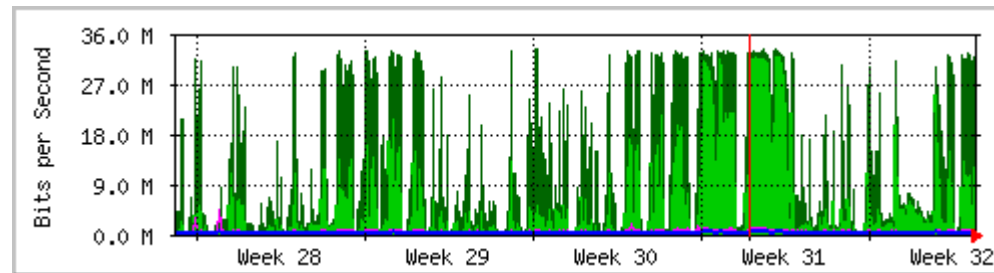


AURA's to Miami
Amlight Andes

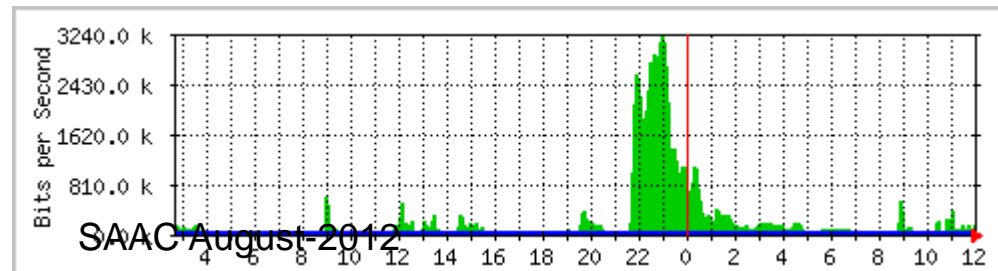


NRAO circuit

NAOJ circuit

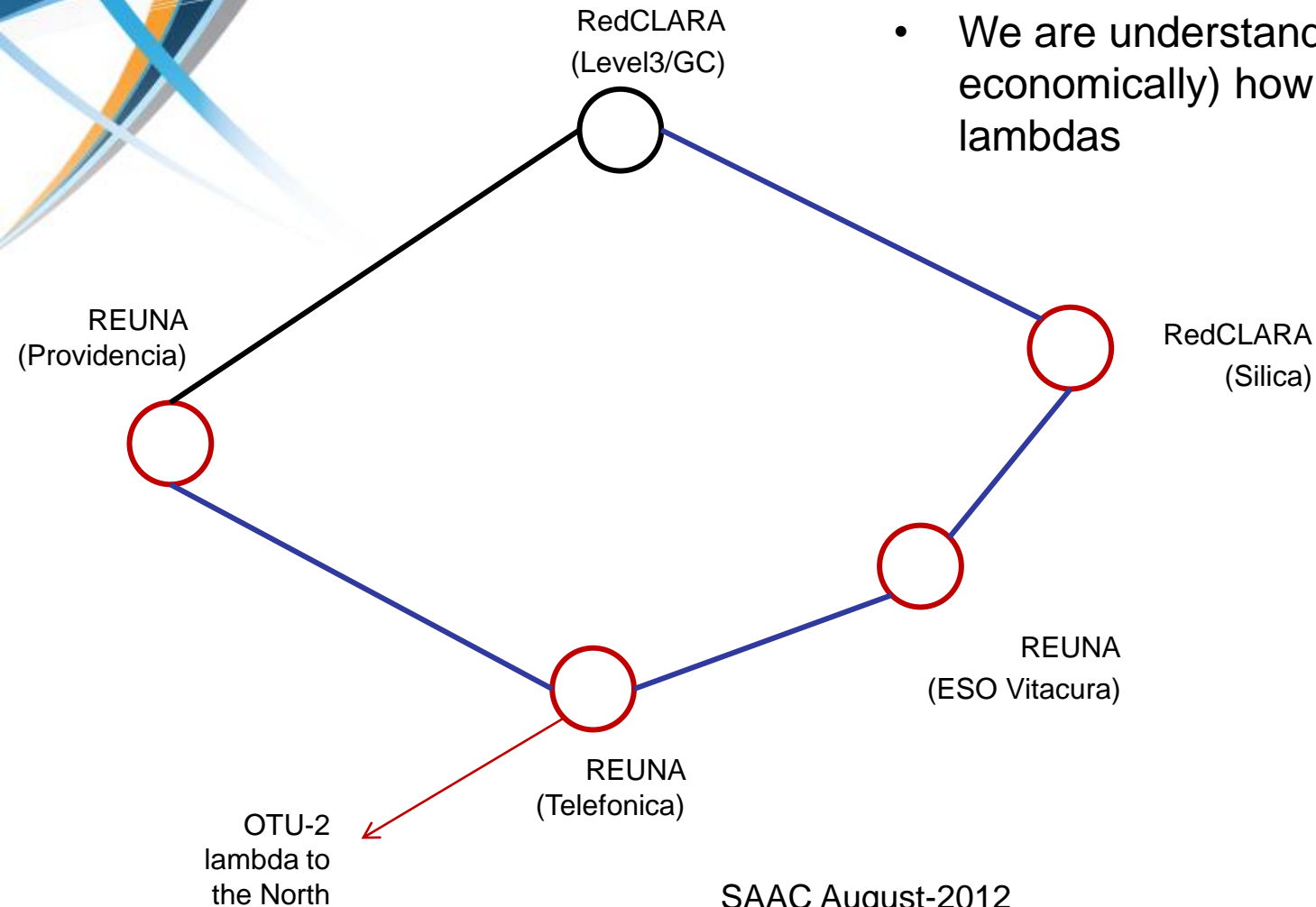


SOAR circuit



Future changes in Santiago

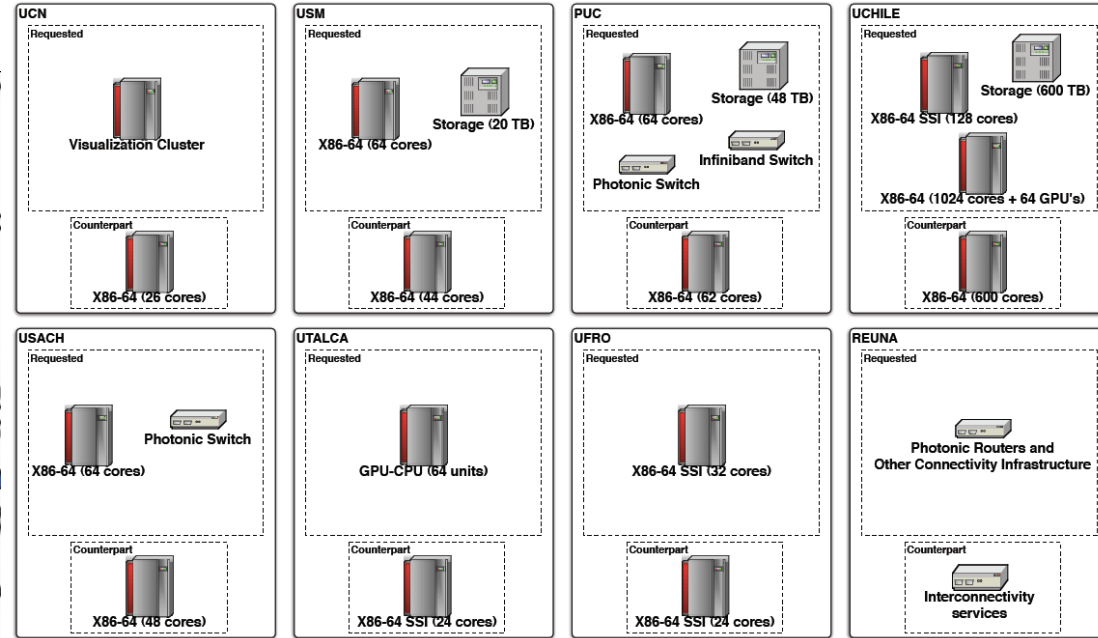
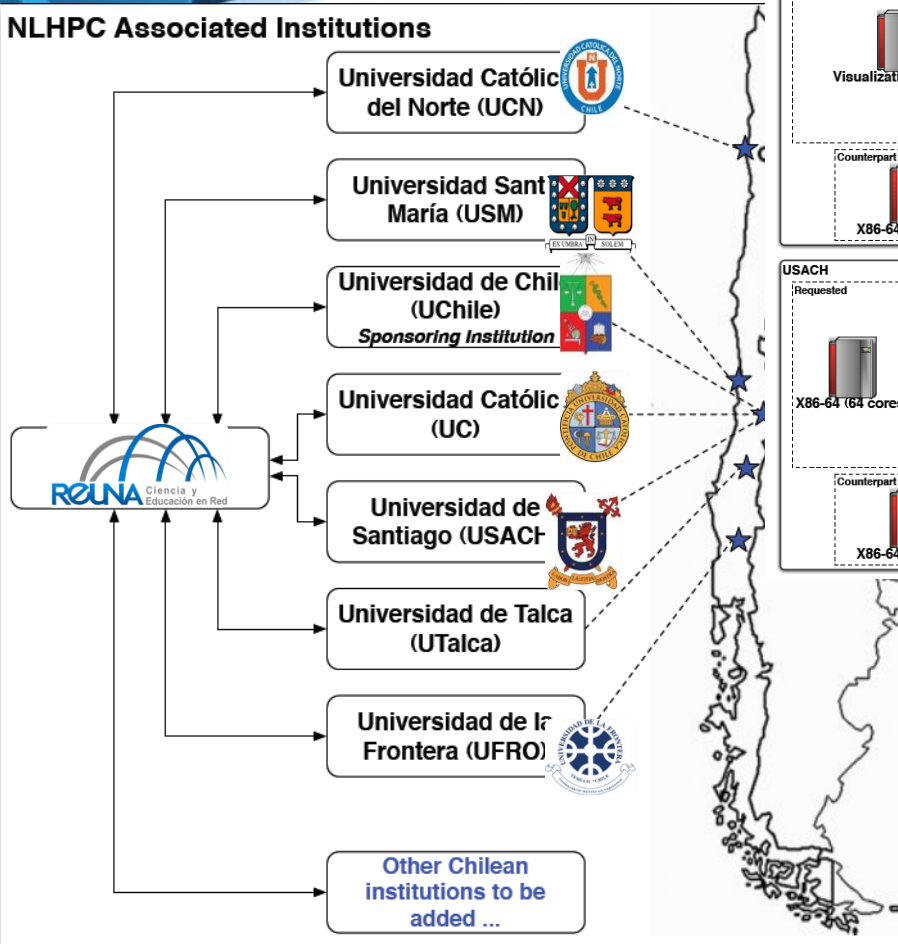
- System currently transport 1 lambda
- Equipment support up to 40 lambdas
- We are understanding (technically and economically) how to upgrade to 4 lambdas



SAAC August-2012

NLHPC, a new big step

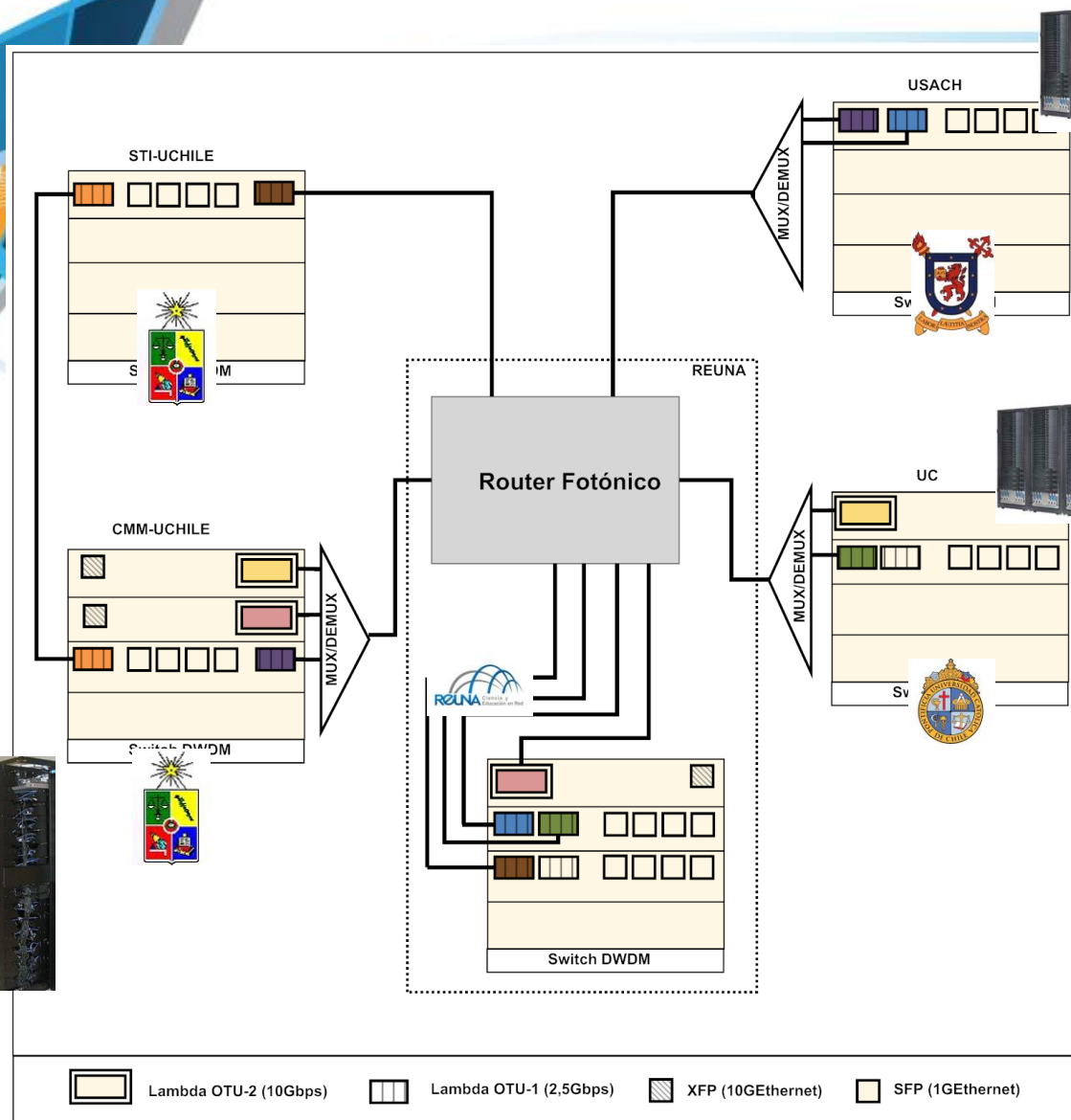
NLHPC Associated Institutions



- Project leaded by CMM de la U.Chile
- Cluster connected to the Research and Education Network

Fuente: Presentación oficial proyecto NLHPC/CMM FCFM UChile

NLHPC: Light paths capability in Santiago



- DWDM equipment
- CIENA at the edge
- Fotonic router as a key central point
- NTT technology
- Matrix of 32x32 lambdas
- The lambdas will be lighted at 10G and 2,5G
- Status: Equipment in delivery process

SAAC August-2012



REUNA

Ciencia y
Educación en Red

SAAC August-2012

