

# **GÉANT Updates**

## **TF-NGN Meeting**

### **Madrid**

**Marian Garcia**  
**Operations Manager**  
**DANTE**

# GÉANT Topology: Circuits upgrades

# ACCESSES

- Upgrades to **10 Gbps** (all of them in October 2003)
  - Hungarnet
  - NORDUnet
  - RedIRIS
- IUCC (Israel) => From 155 Mbps to 310 Mbps (Oct)

# TRUNKS

- From STM-16 To STM-64
  - AT-HU => (Sept 03)
  - ES-FR => (Oct 03)
  - ES-IT => (Oct 03)
  - PL-SE => (Oct 03)

# Pending

- **ACCESSES**

- PSNC / DFN / SWITCH to 10 Gbps
- Arnes / Carnet / FCCN to 1.2 Gbps
- LITnet (Lithuania) from STM-1 to STM-4
- LATnet (Latvia) From E3 to STM-1

- **TRUNKS**

- PT-ES / PT-UK to STM-16
- HR-HU / AT-SI / SI-HR to STM-16
- GR-IT / GR-DE to STM-16

# GÉANT Services/Project support

# IPv6

- Fully Operational since October 2003
- Operational Procedures in place
- Monitoring
  - BGPv6 Status
  - Change in number of routes
  - Looking Glass
  - Traffic: Taksometro and Infovista => Data for accesses included in the Monthly Service Report.

# Performance Monitoring

- RIPE TTM box installed in Geneva
- Next RIPE box to be installed in Dublin
- Other type of boxes to be installed in near future

# Project Support I

- ***DATAGRID***
  - Geth cards loaned by Juniper
  - Linux servers installed by DATAGRID
  - High volume of TCP flows
  - LBE and BE congestion => Study TCP behaviour and packet reordering
  - Data Analyses in the next days

# Project Support II

- *eVLBI* (Very Long Baseline Interferometry)
  - First real time data sent
  - From Onsala (SE), Cambridge (UK) and Westerbork (NL) to Dwingeloo (NL)
  - Up to 256 Mbps

# Eumedconnect

- Project to connect European research networks with other Mediterranean research networks via GÉANT
- First Emedconnect PoP to be installed in Catania in the following weeks
- First links expected in February
  - Catania PoP to GÉANT PoP in Milan => STM-1
  - Argelia to GÉANT PoP in Madrid => T3
  - Tunisia and Morocco to the Catania PoP =>T3
  - Others still pending