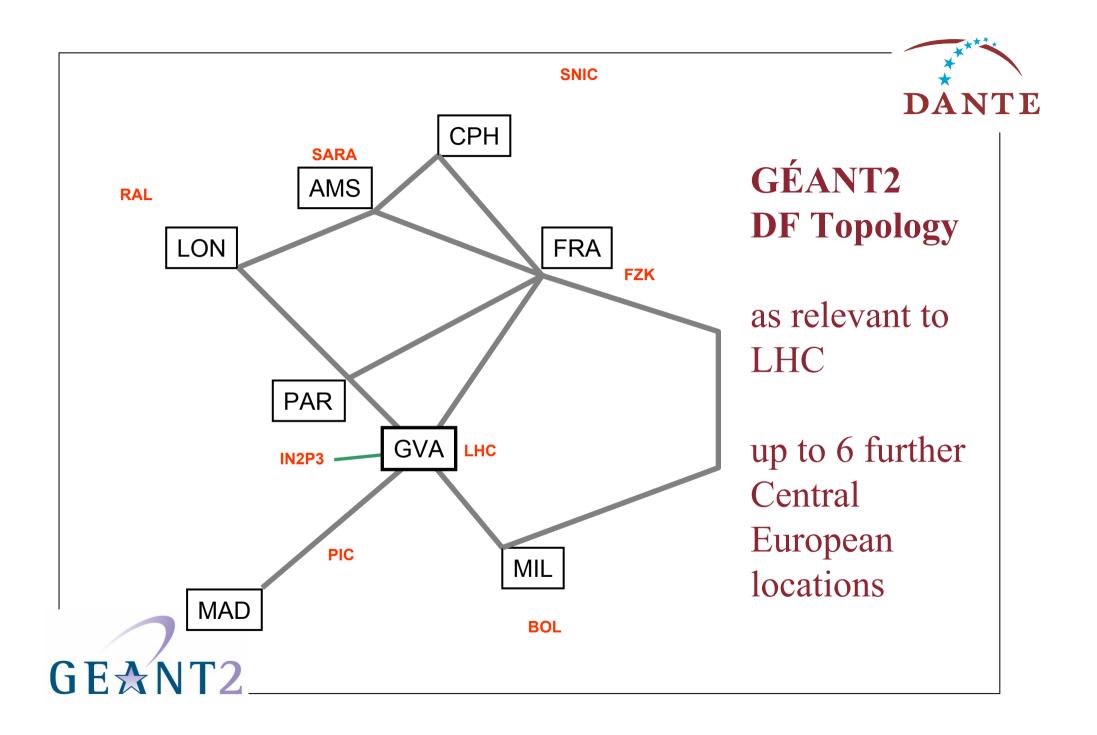


# DANTE

## GÉANT2 Topology

- Up to 15 of 30 consortium partners will be connected to DF
- Selection of preferred providers expected to be completed on 9.5.2005 in Pisa
- On 31.3. all DF routes relevant to the 7 European T1s have been selected





#### Cost Model (1)

- GÉANT2 does not have prices, it shares cost
- The NRENs on the dark fibre cloud subscribe to a **GEANT+** service
- about 2 M€ per NREN per year
- 10Gb/s IP and 10Gb/s worth of p2p services
- This subscription finances the DF backbone
- Extra wavelengths for projects at marginal cost



#### Cost Model (2)

- Per hop/route cost is composed of a of
  - transponder pair/s

 $GE \stackrel{*}{\rightarrow} NT2$ 

- trunk ports at the switches
- access ports at the switches once per route
- installation, maintenance, operations fees
- On the fibre cloud costs will be calculated independent of number of hops (channels not protected)
- costs annualized over 3 years will be marginal



### p2p wavelength services

- $p2p \lambda$  is not protected
- Protection through
  - NREN fibre where possible
  - GÉANT2 alternate route
  - Cross boarder fibre
- Operation by GÉANT2 NOC





#### **Equipment Selection**

- Very short list of providers
- Decision expected on 9.5.2005
- Implementation 4 to 6 months

