

RENATER, the French Research and Education Network, a building block of GEANT, the pan-European network infrastructure.

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www.renater.fr

RENATER, a legal body

« GROUPEMENT D'INTERET PUBLIC »

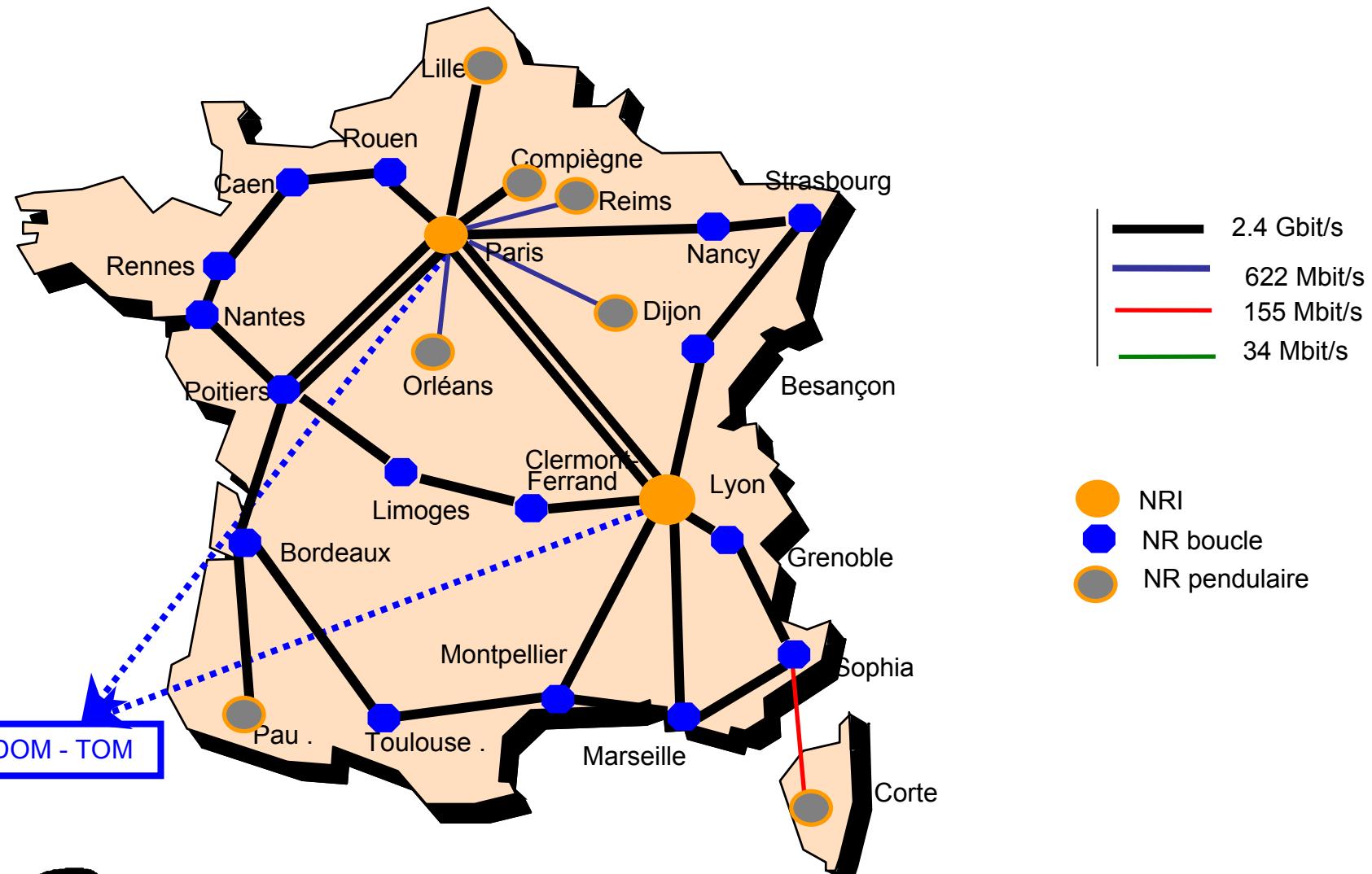
- Composition:
 - Ministries: Higher Education + Research
 - Main public research organisations: CNRS, CEA, INRIA, INRA, CNES, CIRAD, INSERM, CEMAGREF, IRD, BRGM.
- Staff headcount: 29; Turnover: 26 M€
- Founded in 1993.

RENATER, a research infrastructure

The network infrastructure

- Made of 30 points of presence (NR) with interconnection circuits
- 7 Points of presence outside main land (overseas)
- Backbone infrastructure provided by a variety of telcos since 1999
- A unique network service management provider

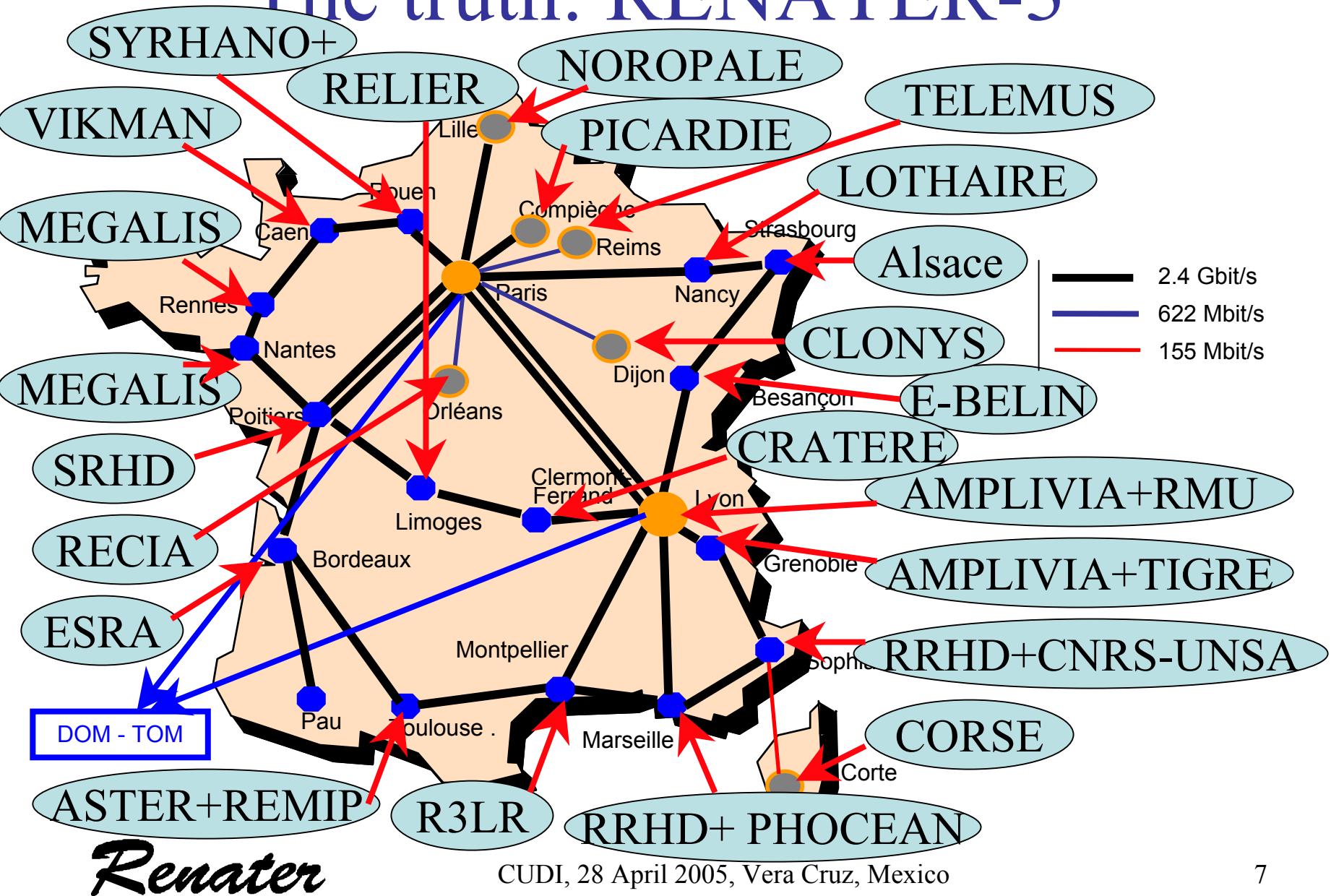
The current RENATER-3

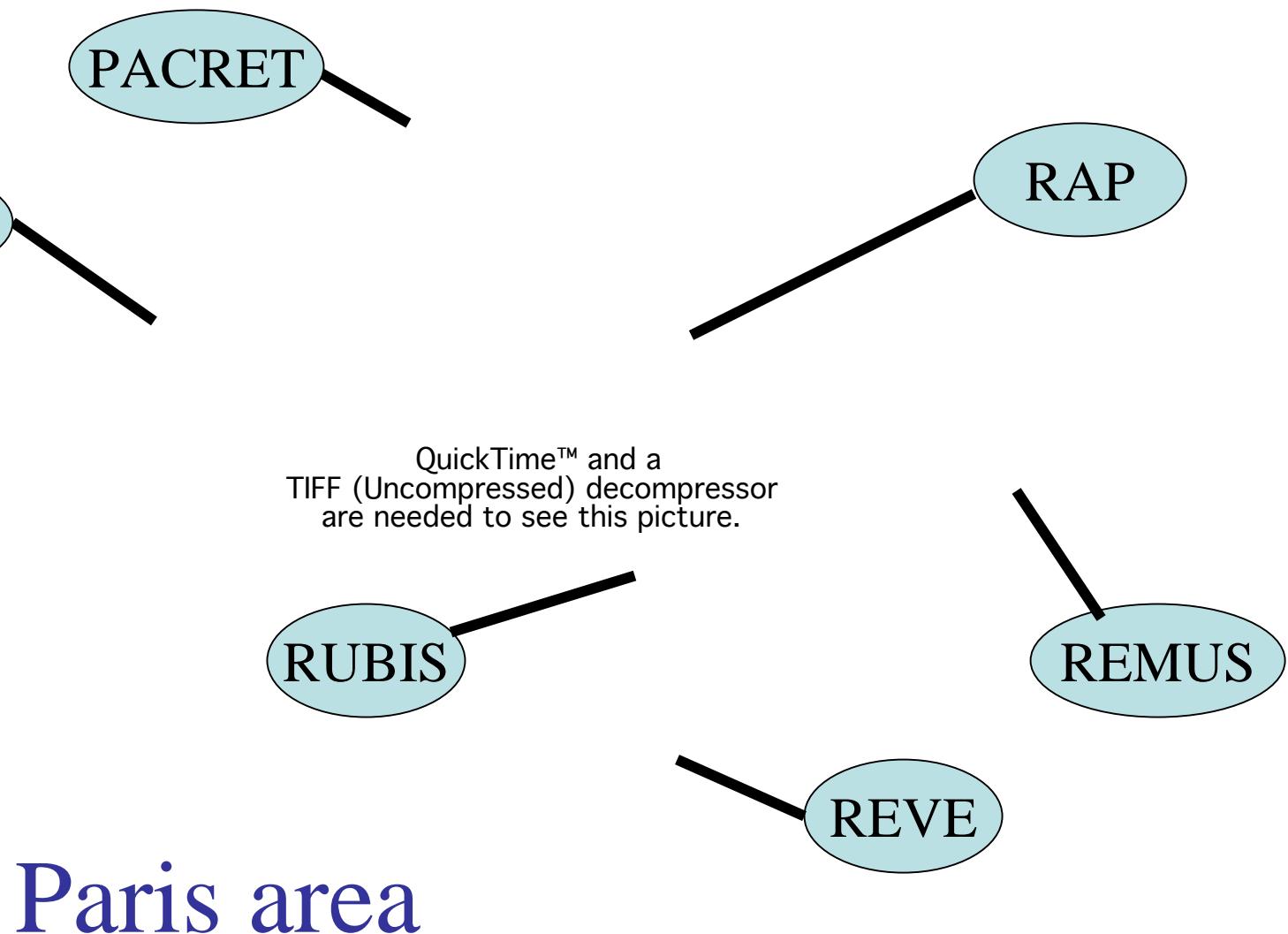


Renater

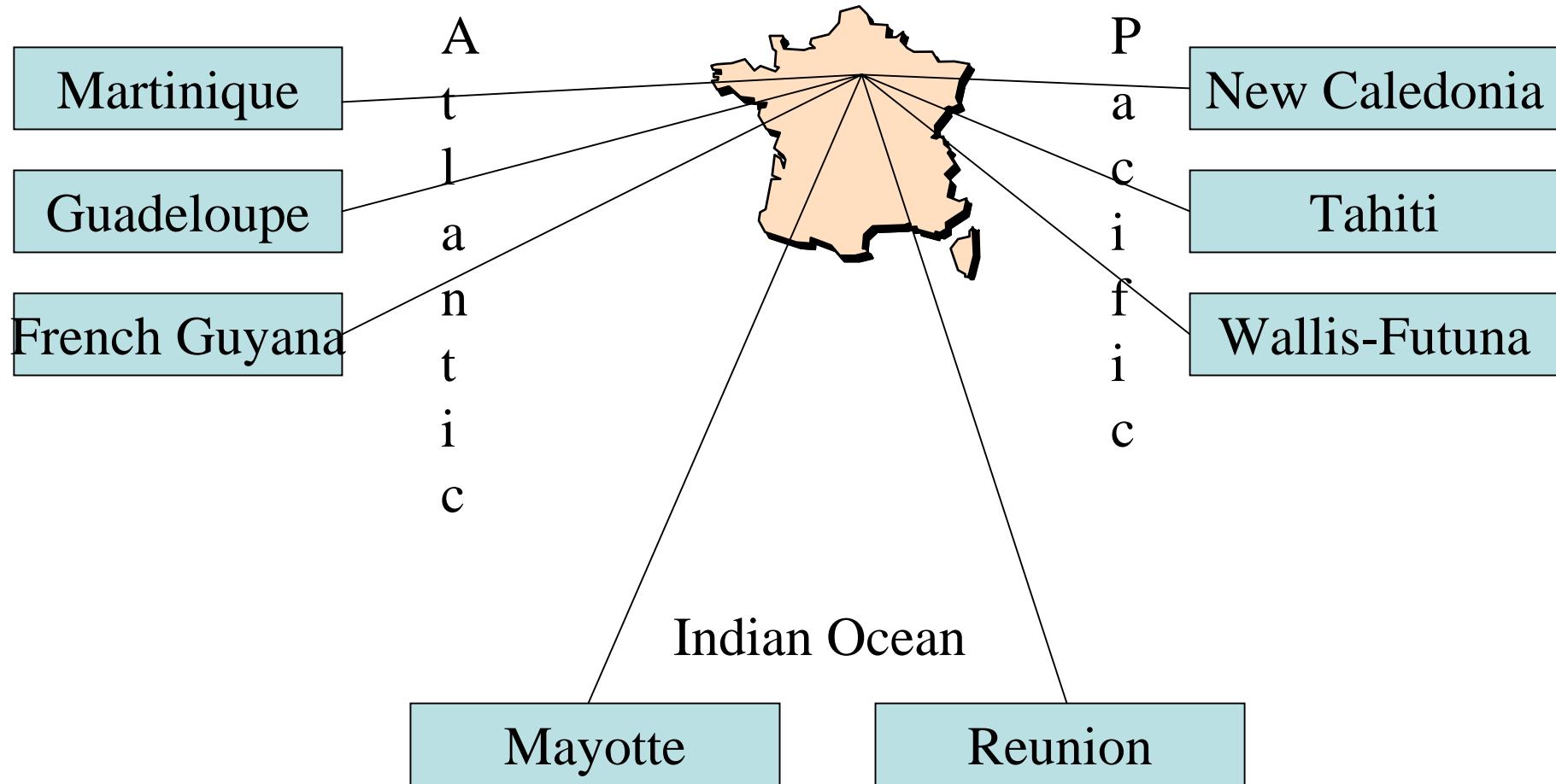
CUDI, 28 April 2005, Vera Cruz, Mexico

The truth: RENATER-3





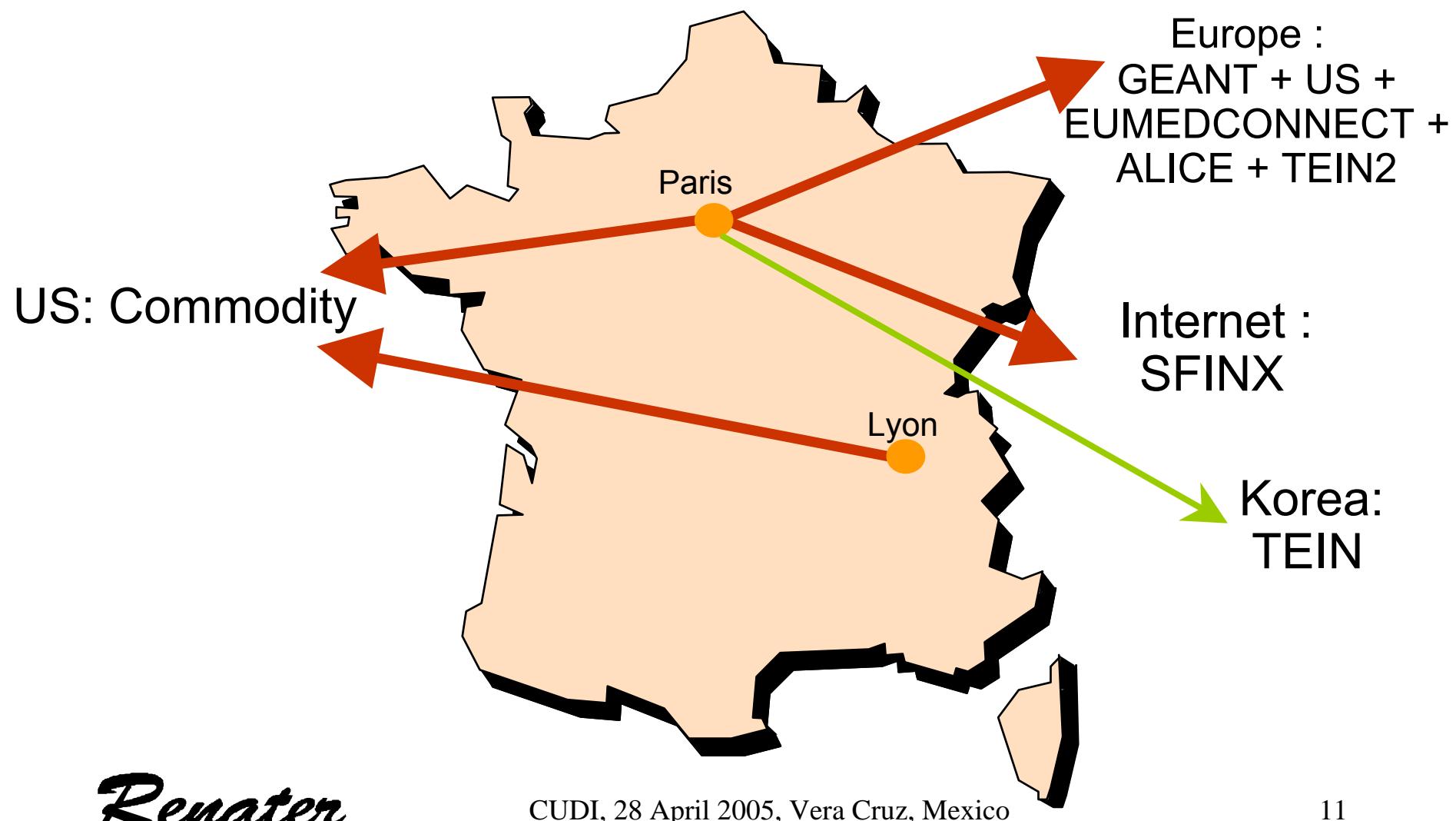
A wider view of RENATER



Various network services

- IPv4 + IPv6, unicast and multicast
- QoS, VPN
- VideoConferencing
- CERT
- GIX
- Rootserver hosting
- CDN

INTERNATIONAL CONNECTIVITY



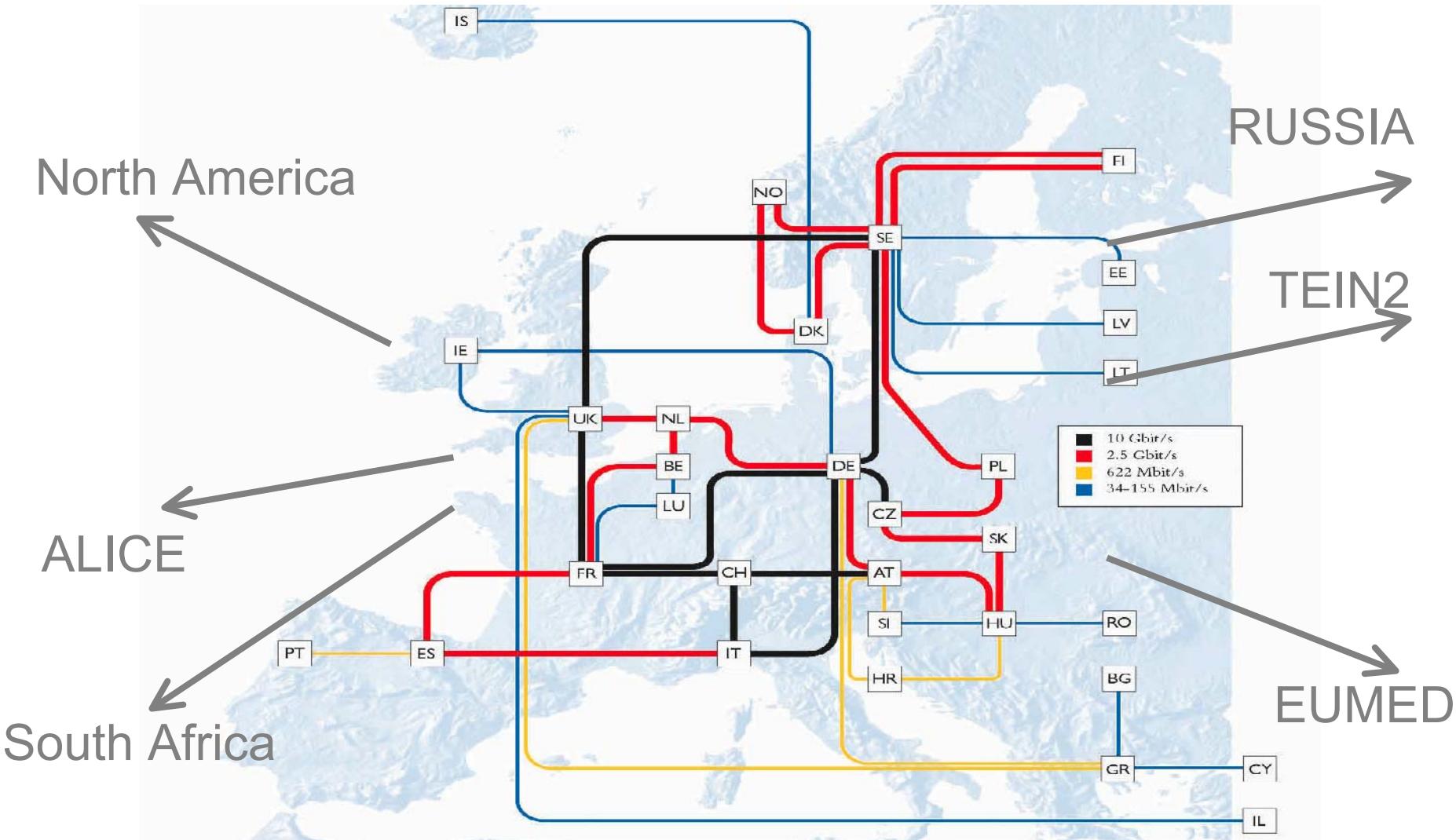
GEANT Network

- Pan-European interconnection backbone for 32 NRENs
- Successor of TEN-34 and TEN-155
- GEANT-2 in final procurement phase (operation in 2005)
- An academic community made of + 3500 universities or research centres
- Shared funding between European NRENs and the European Commission
- EU FP5: 80 M€(40 % of total cost)
- EU FP6: 100 M€(> 50 % of total cost)
- www.geant.net

GEANT : Organisation

- NRENPC: National Research and Education Policy Committee is the highest level of authority on GEANT
- DANTE (Not for profit limited liability company, based in Cambridge, UK) is the Consortium coordinator.
- www.dante.org.uk
- Overall infrastructure capacity: [+ 150 Gb/s]
- Global connectivity :
 - 3 x 2.5 Gb/s towards North America research networks (Abilene, ESNET, CANARIE etc.)
 - 10 Gb/s from US (supported by National Science Foundation: Abilene, Canarie)
 - 2.5 Gb/s SINET (Japon)

GEANT



Associated Projects

- TEIN-1 (155 Mb/s between Paris and Seoul (EU-AP) www.transeurasia.org)
- TEIN-2 : Interconnection with SEA ASEM countries
- EUMEDCONNECT for the Mediteranean region:
www.dante.org.uk/eumedconnect
- ALICE for the Latin America
www.dante.org.uk/alice

ACCEPTABLE USE POLICY

- Restriction to professional use for education, research, technology, culture, etc.)
- Because of subsidiarity principle, each NREN is responsible for its own AUP
- Commodity traffic is supported but no commercial traffic!

FR-MX cooperations

- 2 MX-FR laboratories:
 - LAFMAA (R. Lozano, UTC)
 - LAFMI (M. Adiba, Grenoble, Cristina Loyo, Jalapa
<http://lafmi.imag.fr>
<http://lafmi.lania.mx>)
- Strong partnership with ENST-bretagne (L. Toutain, toutain@irisa.fr)

FR-MX cooperations

- INRIA
 - Robotic and vision yearly summer school
 - A list of INRIA partners:
 - Universidad Autonoma de Puebla, CONACYT, LANIA, UDLA/BD, UDLA/XALTAL, Centro de Sistemas Inteligente", ITAM, University of Guadalajara, Univeritad Autonoma Metropolitana Mexico, Centro de Sistemas Inteligente, ITESM, etc...
- RENATER:
 - University of Guadalajara

END OF PRESENTATION



Any questions?