

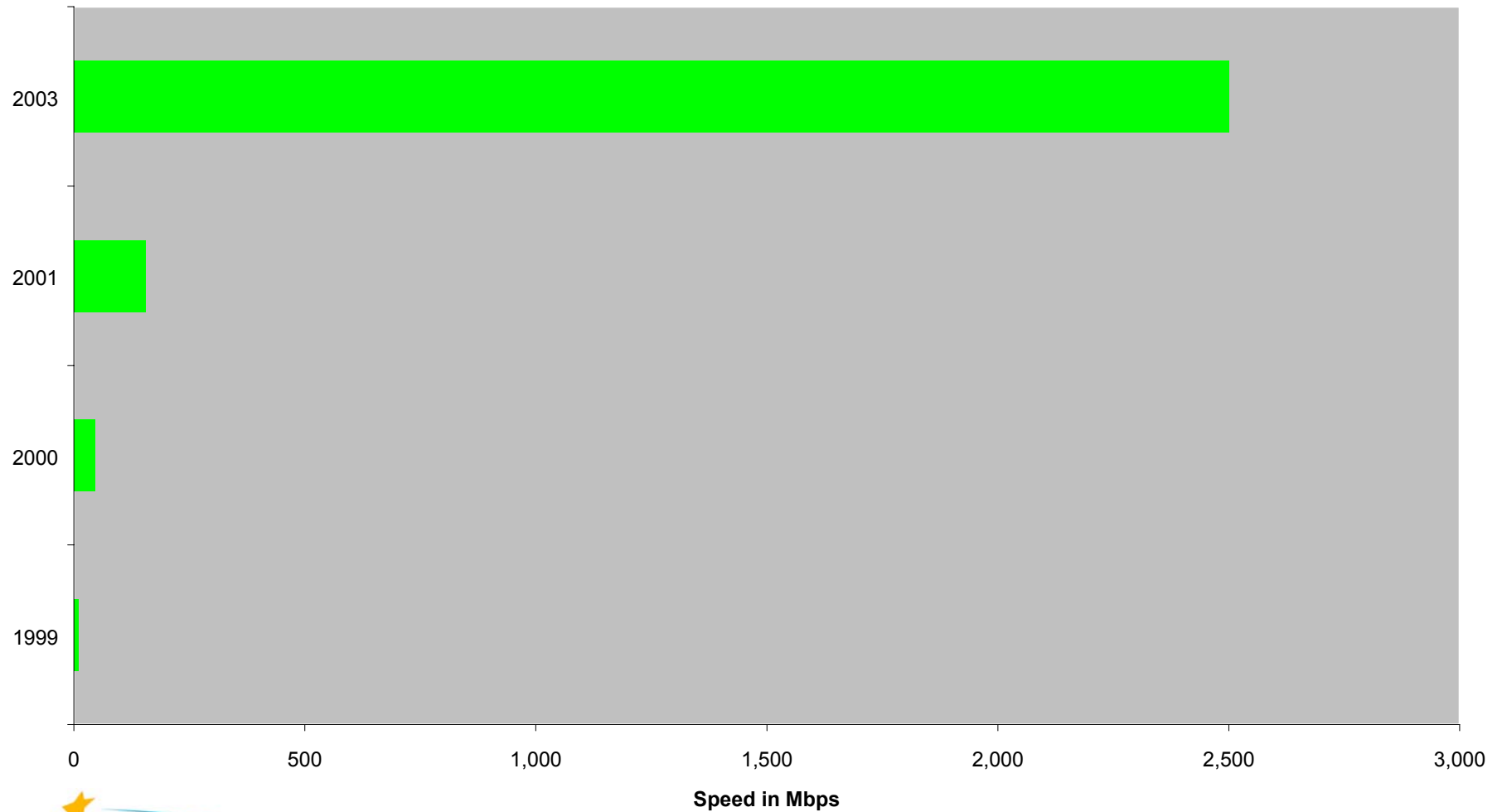
HEAnet
3rd National Networking Conference
6 & 7 November 2003
Ormonde Hotel, Kilkenny

The Future of EU Networking

GÉANT

- **Huge Increase in Network Capacity**
 - **TEN-155 3 Gbps**
 - **GÉANT 150 Gbps**
- **9 “10 Gbps” Accesses**
- **20 Gbps Global Interconnection**
- **Regional Initiatives**
 - **Mediterranean**
 - **Latin America**

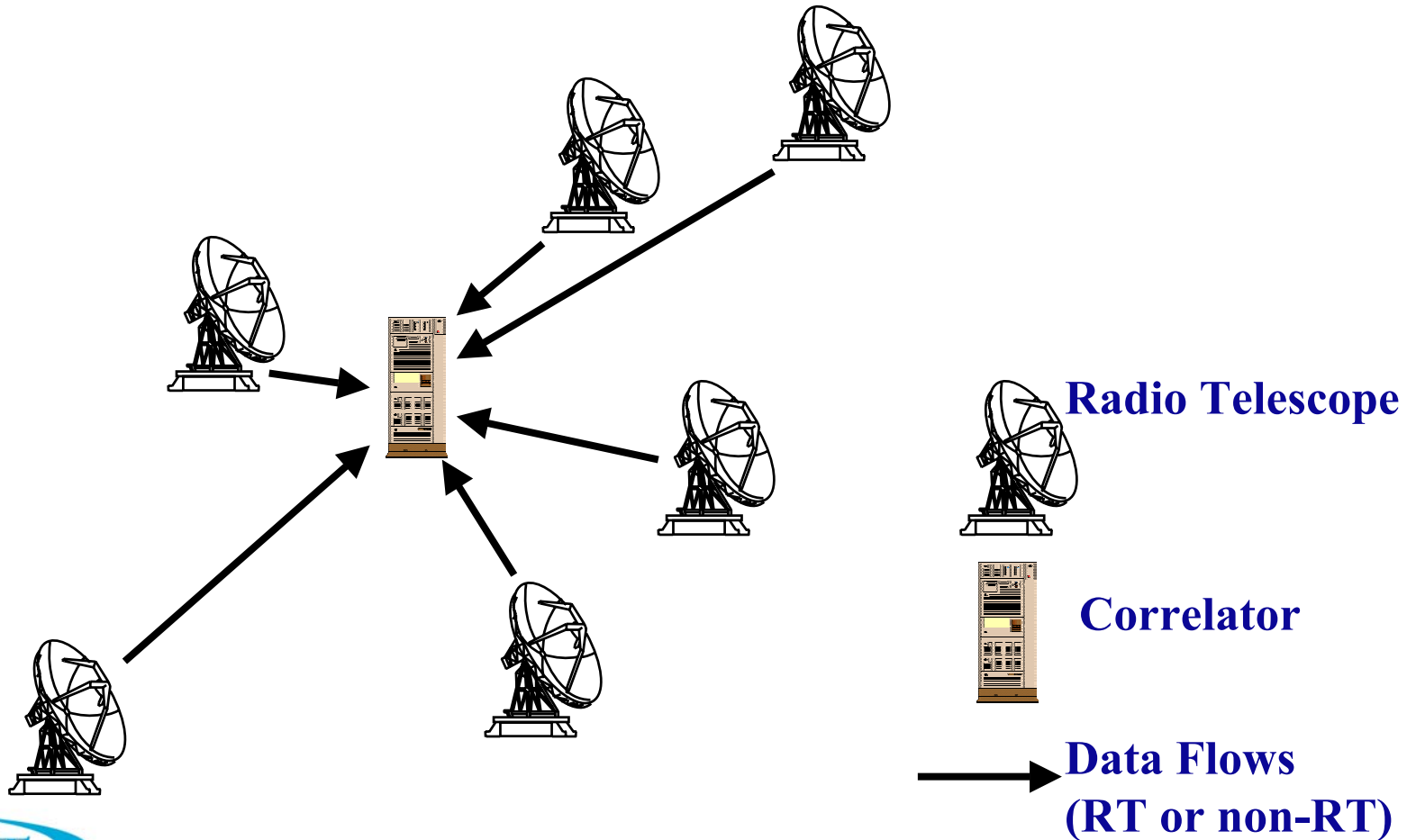
Development of HEAnet European Connectivity



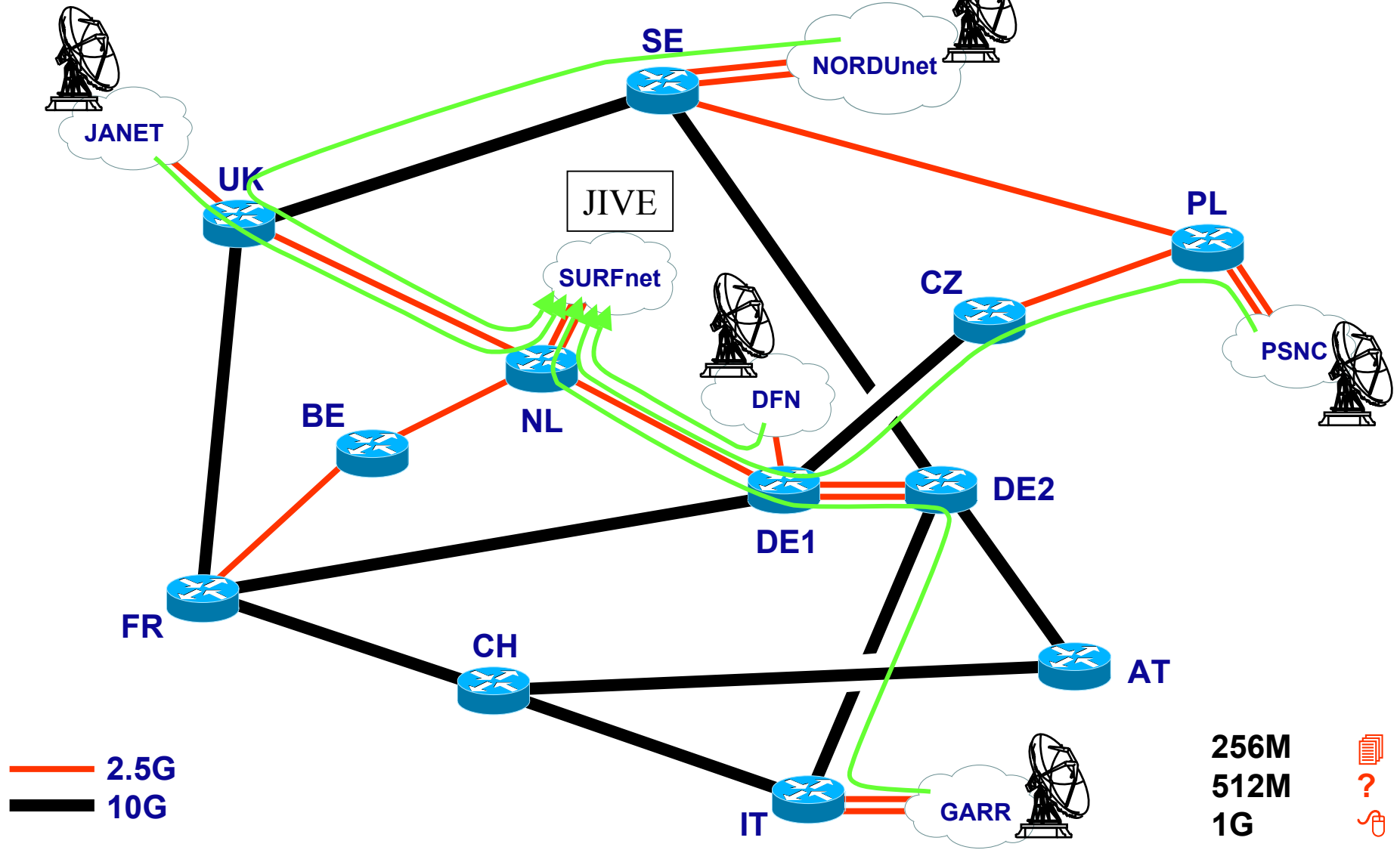
GÉANT Issues

- **Usage**
- **Divergence of Costs**
- **Switches versus Routers**

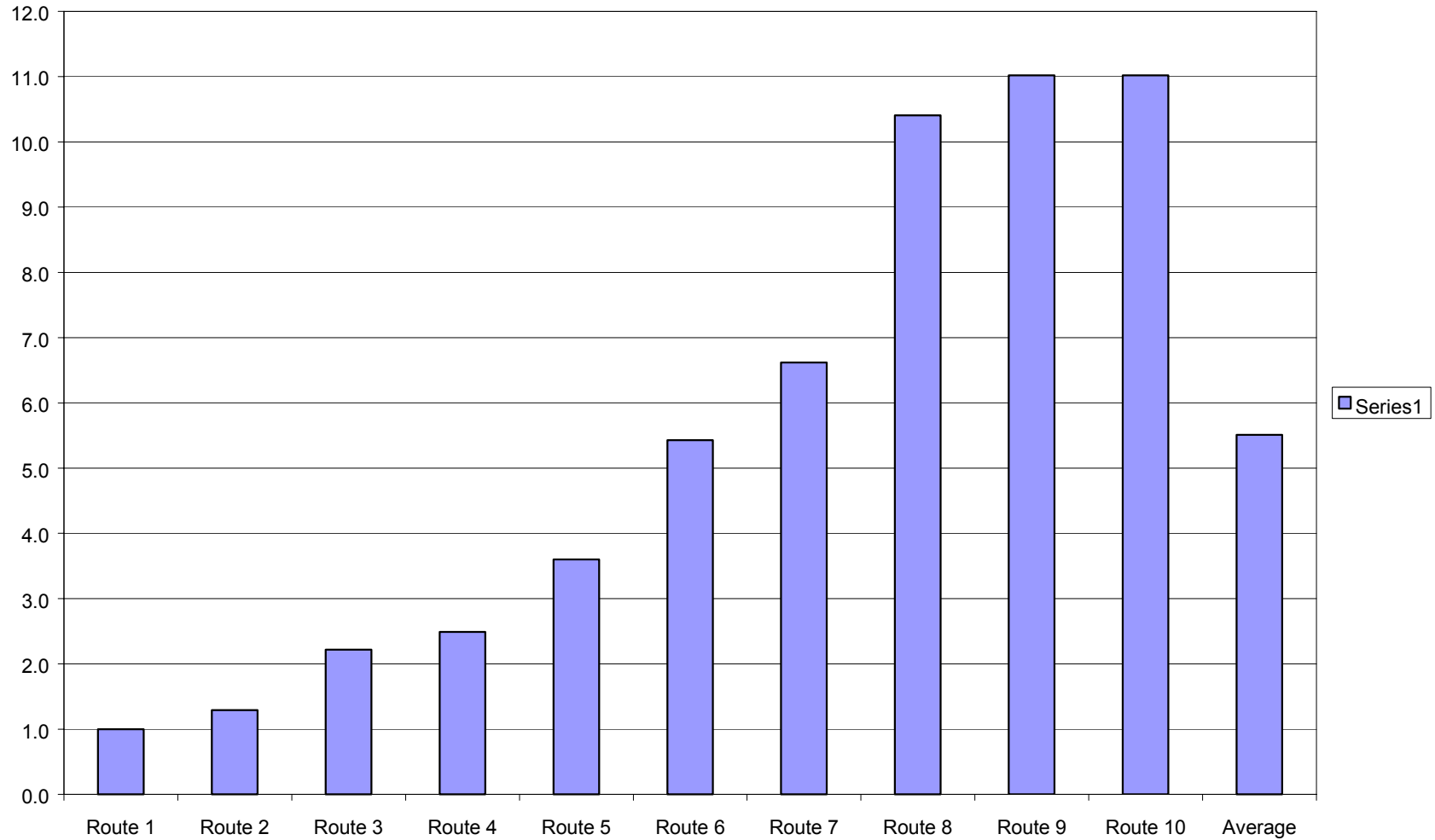
Support for European VLBI



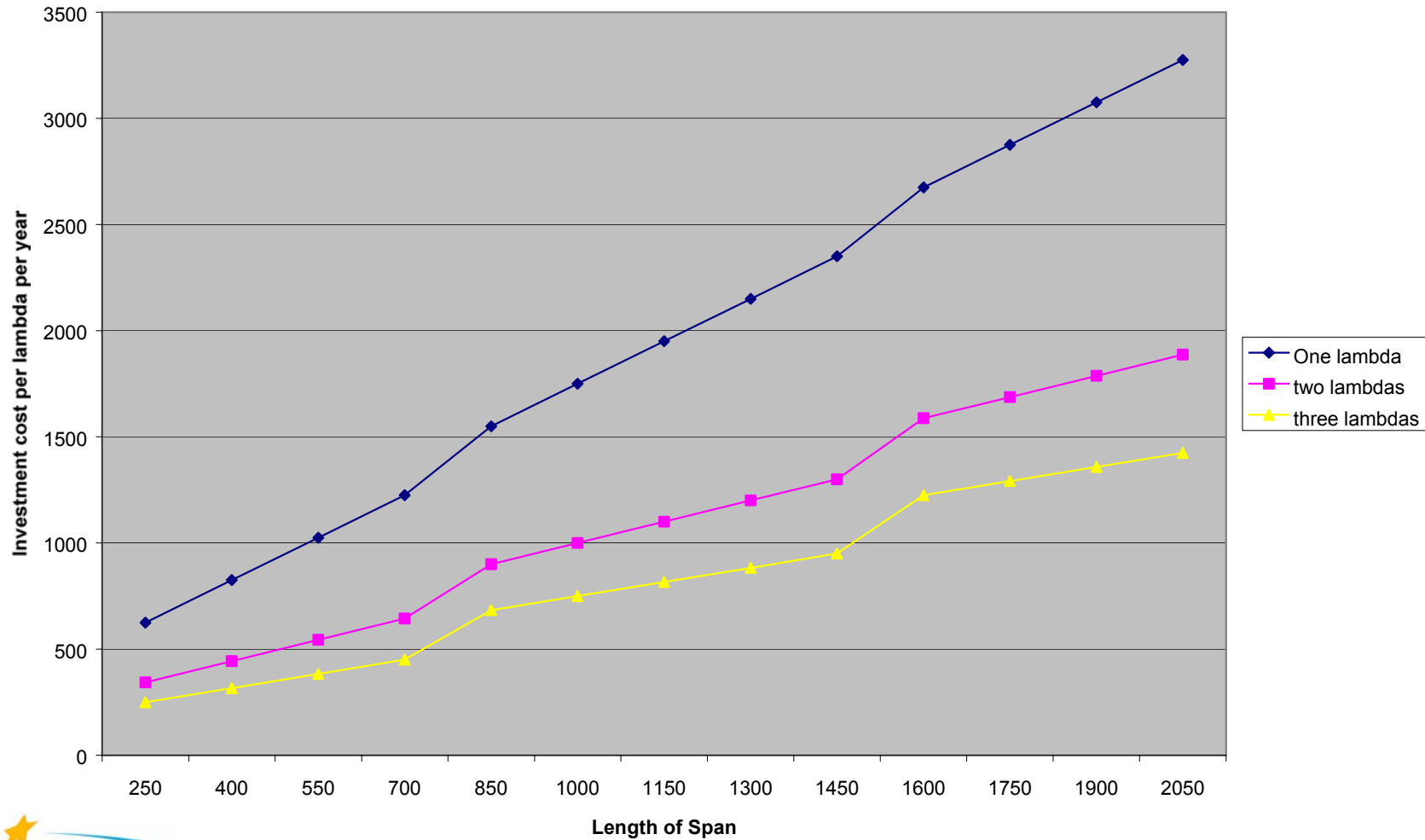
EVN Traffic Flows over GÉANT



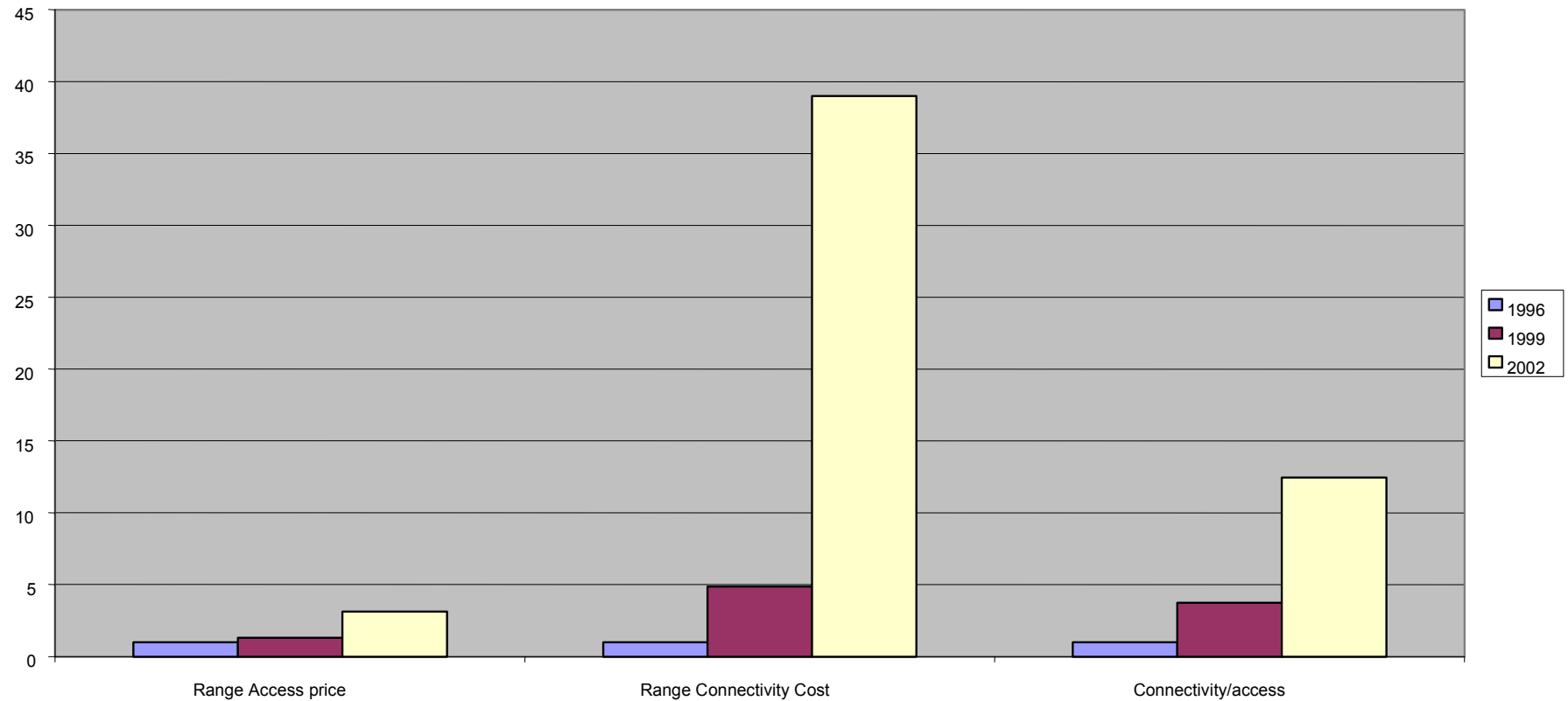
Relative Cost 2.5 Gbps routes/km



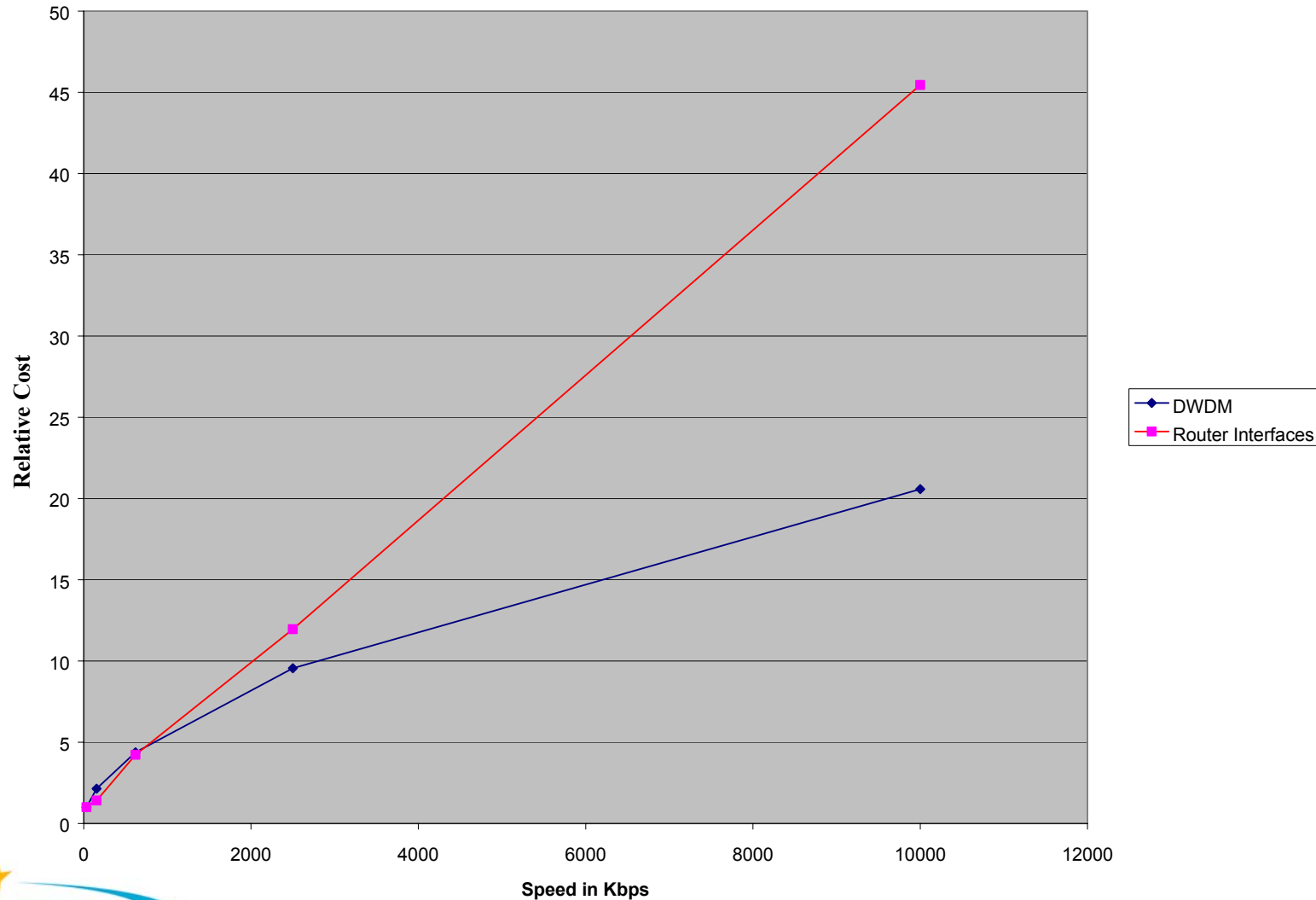
Structure of DWDM Costs versus Route Length



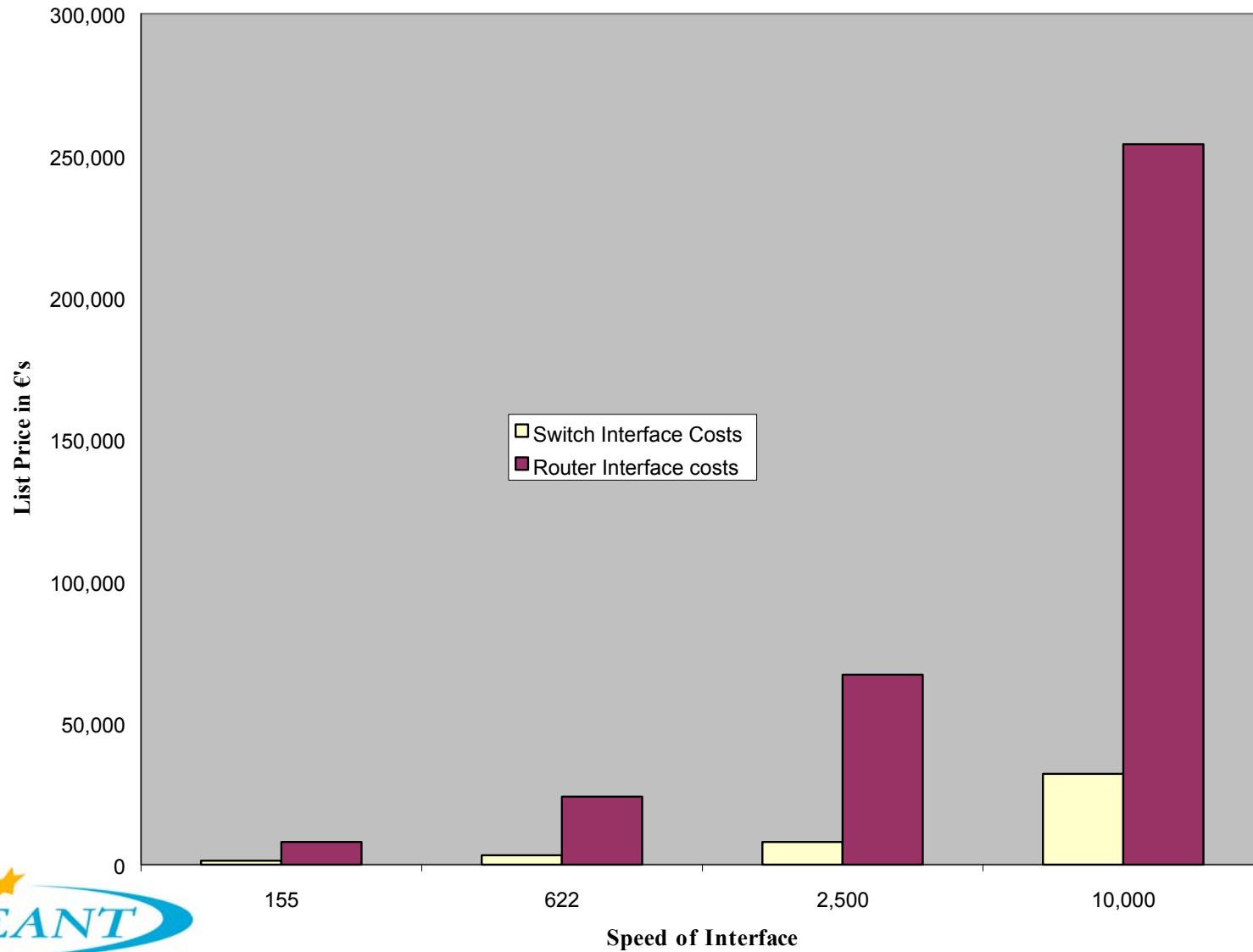
Development of Cost Sharing 1996 - 2002



Relative Cost of DWDM Connectivity and Router Interfaces with Speed of Operation



Relative Cost of Switch Interfaces and Router Interfaces



The National Dimension

- **Can you Exploit the Capacity**
- **Where do you Stand on Technology**

Conclusions

- **Can we Harness the Capacity?**
- **Can we Support the Users?**
- **Can we Beat the Technology?**