IST project

6NET
IPv6 testbed

Empowering the Internet Generation

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6NET OVERVIEW

IST project from the European Commission

Major international IPv6 testbed (10 countries)

3 Year project -> starting early 2002

Coordinating partner -> Cisco

Consortium consist of:

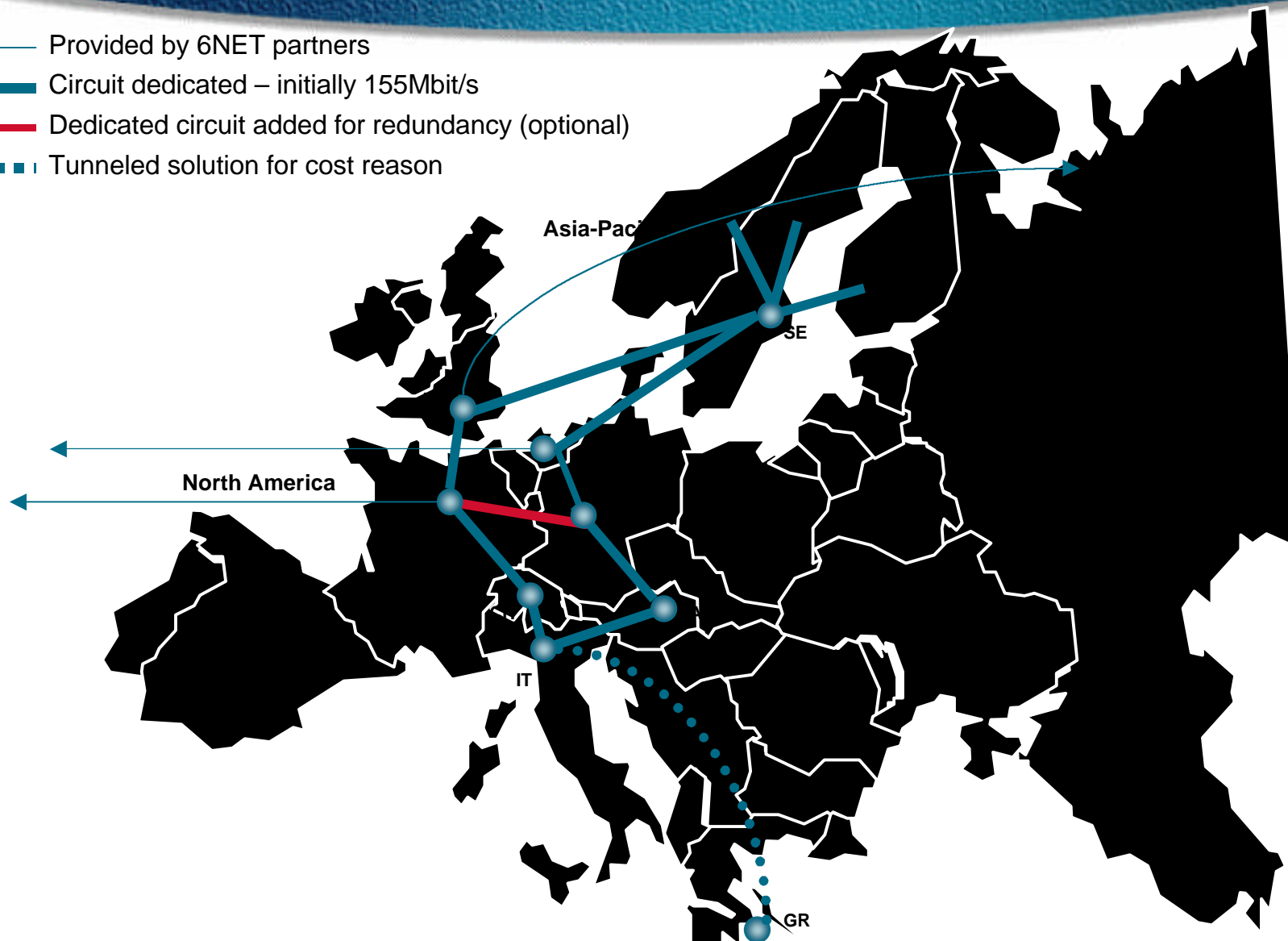|	
10 Nat. Research Ntwk's	**Cisco**
10 Universities	**IBM**
DANTE (GEANT)	**SONY**
TERENA	**NTT**

6NET MAP

Provided by 6NET partners

Circuit dedicated – initially 155Mbit/s

Dedicated circuit added for redundancy (optional)

Tunneled solution for cost reason

Asia-Pac

SE

North America

IT

GR

Opportunities

- Opportunity for Europe to lead IPv6 (next generation) Internet

- Most extensive testbed able to provide IPv6 connectivity to other testbeds/projects

- Test and build new services and applications

- Create new business environment for mobile Internet

- In line with political agenda from European Commission

Project Objectives

• Build and operate a native pan-european IPv6 network
• Validate IPv6 technology for continuous growth of the Internet
• stimulate european research and industry to play a leading role in the next generation Internet

• Provide and operate a combined fixed/mobile IPv6 pilot
• validate the migration strategies for integrating IPv6 with the existing IPv4 services
• evaluate the deployment and manageability of a large IPv6 network
• Collaborate with other IPv6 projects

6NET in figures …

Project cost	**Euro 17 million**
EC funding	**Euro 9.5 million**
Total manpower	**1100 manmonths**
Equipment	**2 million €**

6Net Work Packages

WP 1 *Dante*	Build and operate the 6Net network
WP 2 *UoS*	IPv4-IPv6 coexistence, interworking and migration
WP 3 *ACOnet*	Basic network services
WP 4 *ULanc*	IPv6 applications and service support
WP 5 *IBM*	IPv6 application trials
WP 6 *Renater*	IPv6 network management architecture and tools
WP 7 *Terena*	Dissemination and exploitation of results + Liaison with other IPv6 projects