6NET Objectives

The main goals of the project are:

- **To build and operate a dedicated international IPv6 network, and use this network to validate that the demands for the continuous growth of the global Internet can be met with the new IPv6 technology.**

- **To help European research and industry to play a leading role in defining the next generation of networking and application technologies that go beyond the current state of the art.**

6NET Objectives (cont)

Sub-objectives are to:

- **Operate an international pilot service such that geographically dispersed groups can interwork using native IPv6 facilities**

- **Validate the migration strategies for integrating IPv6 with the existing IPv4 infrastructure (core and access networks)**

- **Study and implement coexistence and migration techniques, and transition tools**

- **Introduce and intensively test state of the art IPv6 services**

- **Test state of the art IPv6 applications and access to legacy IPv4 applications and content**

- **Evaluate the deployment and manageability of a large IPv6 network including physical infrastructure, address allocation, registries, routing and DNS operation**

- **Exploit the synergy between European NRENs and major industrial partners**

- **Collaborate with other IPv6 projects; offering the testbed for the support of their activities**
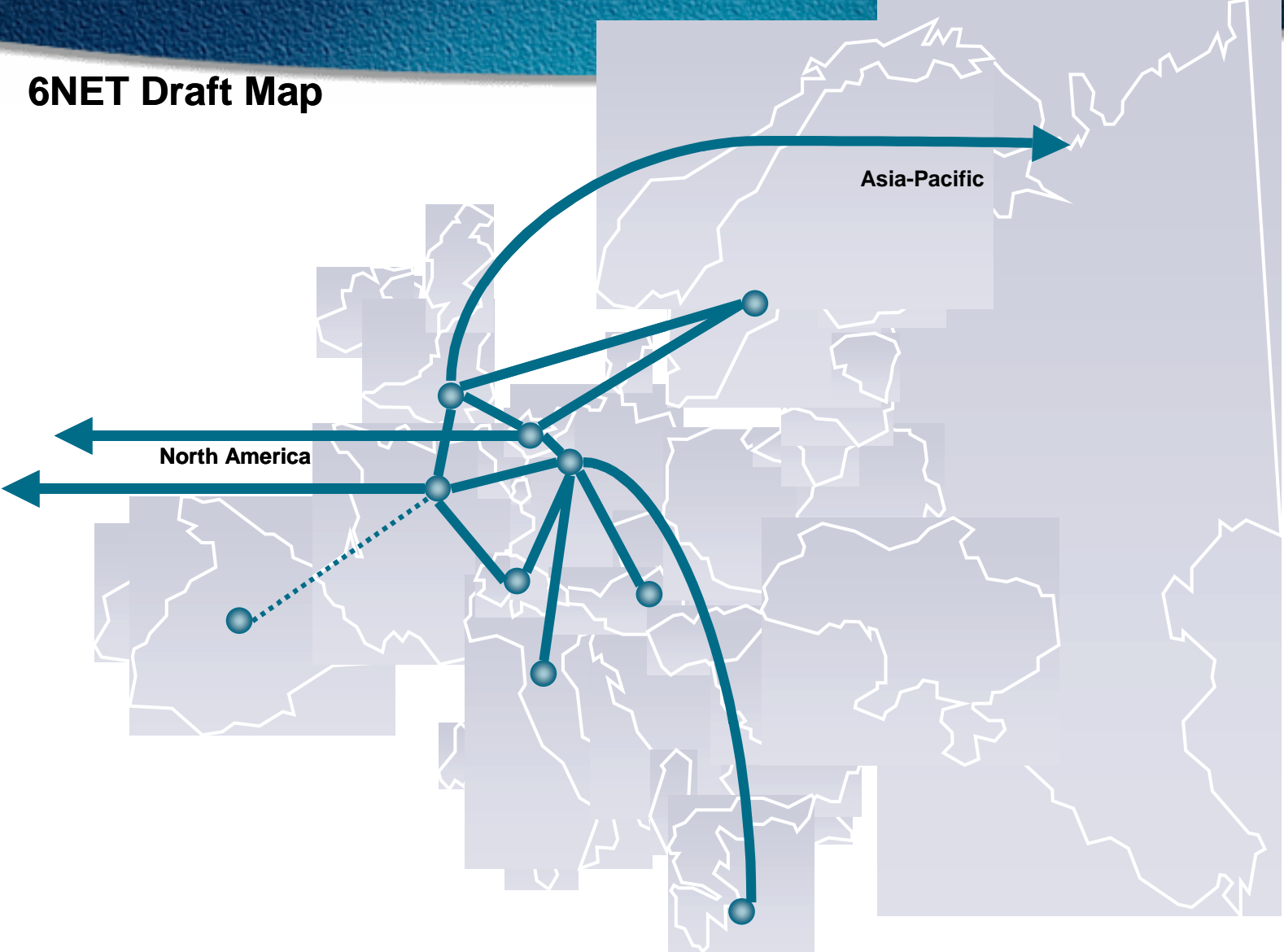
6NET OVERVIEW

Call for proposal from the European Commission (deadline April 25)
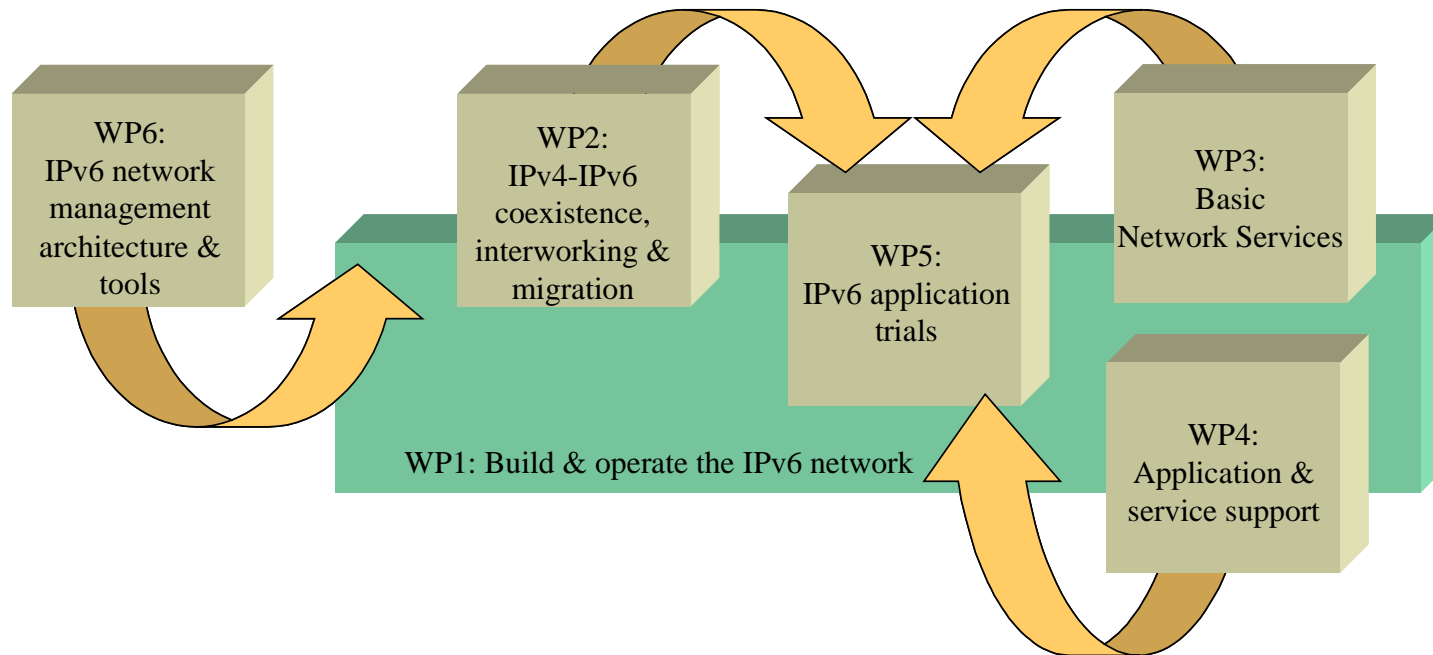
3 Year project -> maybe still starting in 2001 – Nov

Cisco Systems is the project coordinator

Consortium consist of: DANTE
9 NREN's **(Renater, DFN, UKERNA, SurfNET, NORDUNET, GRNET, GARR, SWITCH, ACONET)**
Universities **(UCL, Southampton, Lancaster,UIB,Telin)**
TERENA
IBM
SONY
NTT

6NET Draft Map

Asia-Pacific

North America

6NET Workflow

WP6:
IPv6 network
management
architecture &
tools

WP2:
IPv4-IPv6
coexistence,
interworking &
migration

WP5:
IPv6 application
trials

WP3:
Basic
Network Services

WP4:
Application &
service support

WP1: Build & operate the IPv6 network

WP0 - Project management and technical management
WP7 - Dissemination and exploitation

What does the 6NET project bring to Europe?

Strong relationship with Education and Research Market

Competitive advantadge Through technical Leadership

6NET project

Prof of Concept European Wide Platform For Service Providers

Identification of possible European IPv6 Development partners (univ and industry)