



Session 1:

Global collaborations for research on IPv6

Chair

- ▶ **Luis Rodríguez-Roselló**
Director a.i., European Commission, DG INFSO Belgium

Key Note : IPv6 in a Global Context

- ▶ **Brian Carpenter**
BM Distinguished Engineer , Switzerland

Panellists

- ▶ **Dany Vandromme, Chairman Dante, France**
- ▶ **Tomohiro Fujisaki, NTT, Japan**
- ▶ **Jim Bound, Chairman, North American IPv6 Task Force, USA**
- ▶ **Latif Ladid, Chairman European IPv6 Task Force, Luxembourg**
- ▶ **Douglas van Houweling, President & CEO, Internet2, USA**



Global IPv6 Service Launch

Global Collaboration for Research on IPv6

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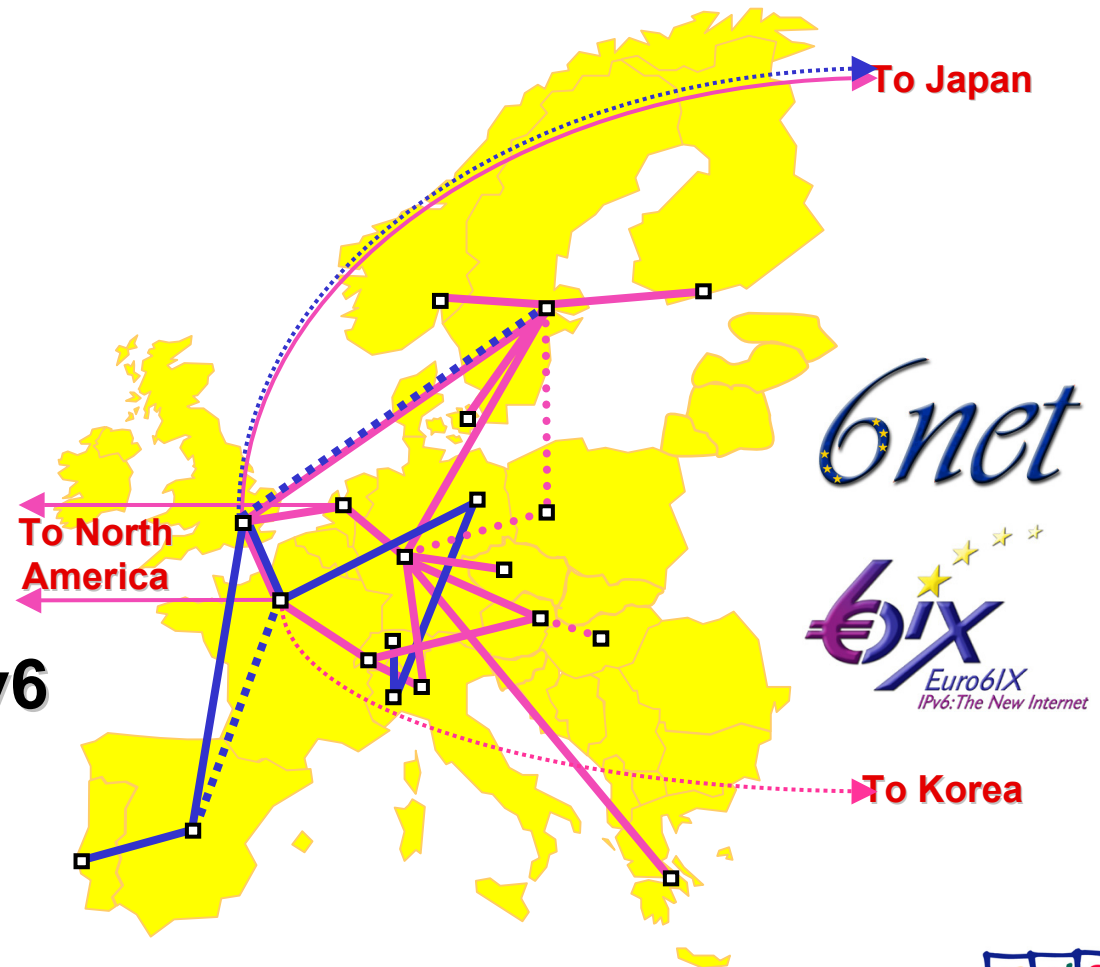
European Commission, Information Society Directorate-General



Extensive European-wide IPv6 Test-beds

**GÉANT and NRENs
collaborating
on the introduction of
new technologies**

**Telecom Operators
testing and deploying IPv6**



RN: a leading edge for the e-Infrastructure

Serving Advanced User Communities

Architecture, design and development work relevant for e-Infrastructure

- beyond extensions of existing technologies leading to
 - open standards
 - including security built-in at all levels, programming environments, customisable middleware, resource management
 - economic and business models for new services
- interoperability with existing e-Infrastructure services (e.g. GRID and Web services)

Enabling Technologies

- providing a homogeneous end-to-end networked infrastructure
- enabling the seamless provision of services
- interconnecting all research in Europe for solution of complex problems requiring a grid-based approach
- exploiting synergies across different application sectors
- providing Quality of Service, Security, always-on services

IPv6: a key enabler technology



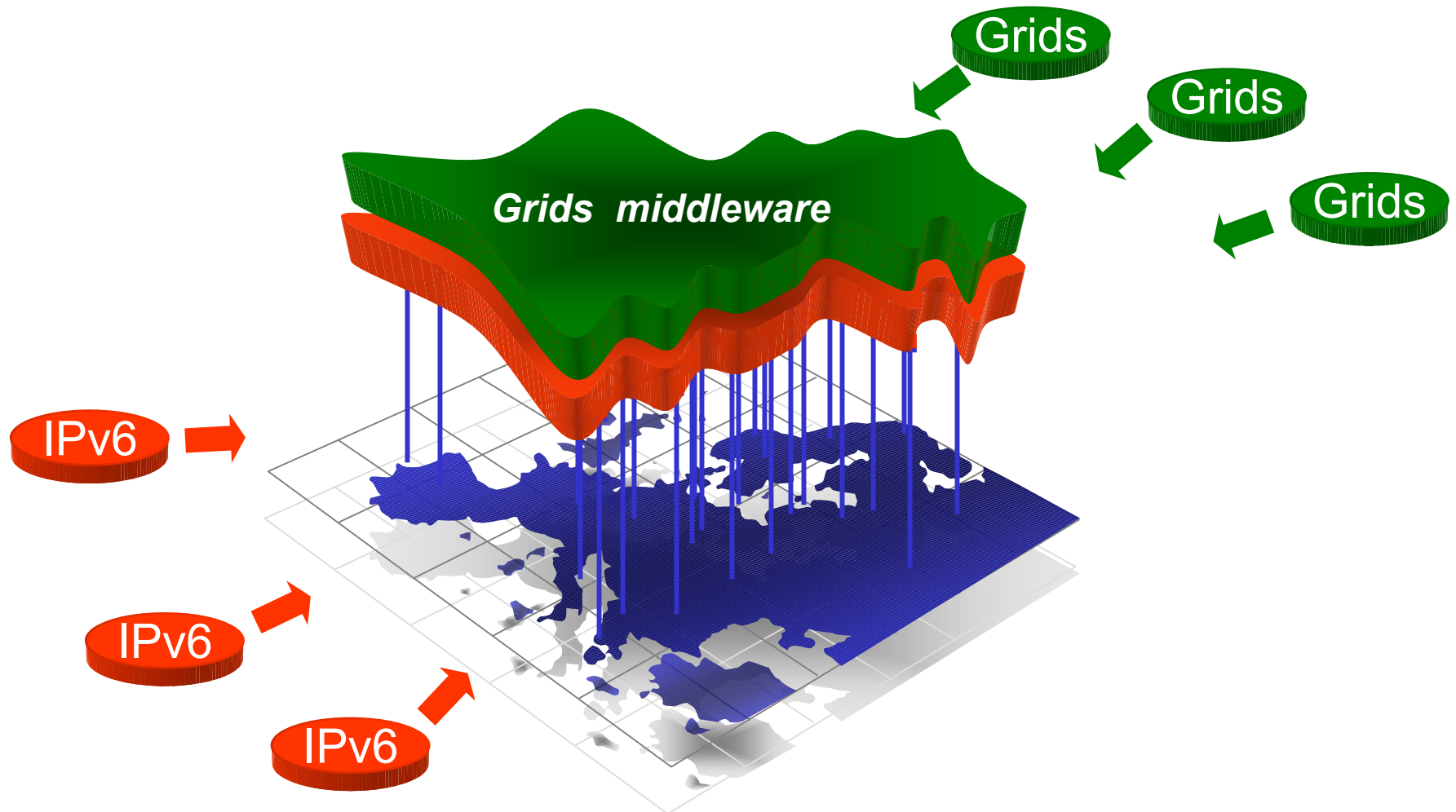
Research & Testbeds in Framework Programme 6

- ➔ **Mobile, security, applications, services**
- ➔ **Promote fast validation & pervasive penetration of state-of-the-art technology in Research Infrastructures**
- ➔ **Scale the breadth and magnitude of technology developments in other parts of the programme**
- ➔ **Focus on**
 - ➔ **IPv6 over optical paths**
 - ➔ **new routing and protocol schemes**
 - ➔ **access technologies**
 - ➔ **photonic networks**
 - ➔ **lambda and terabit networking**
 - ➔ **...**



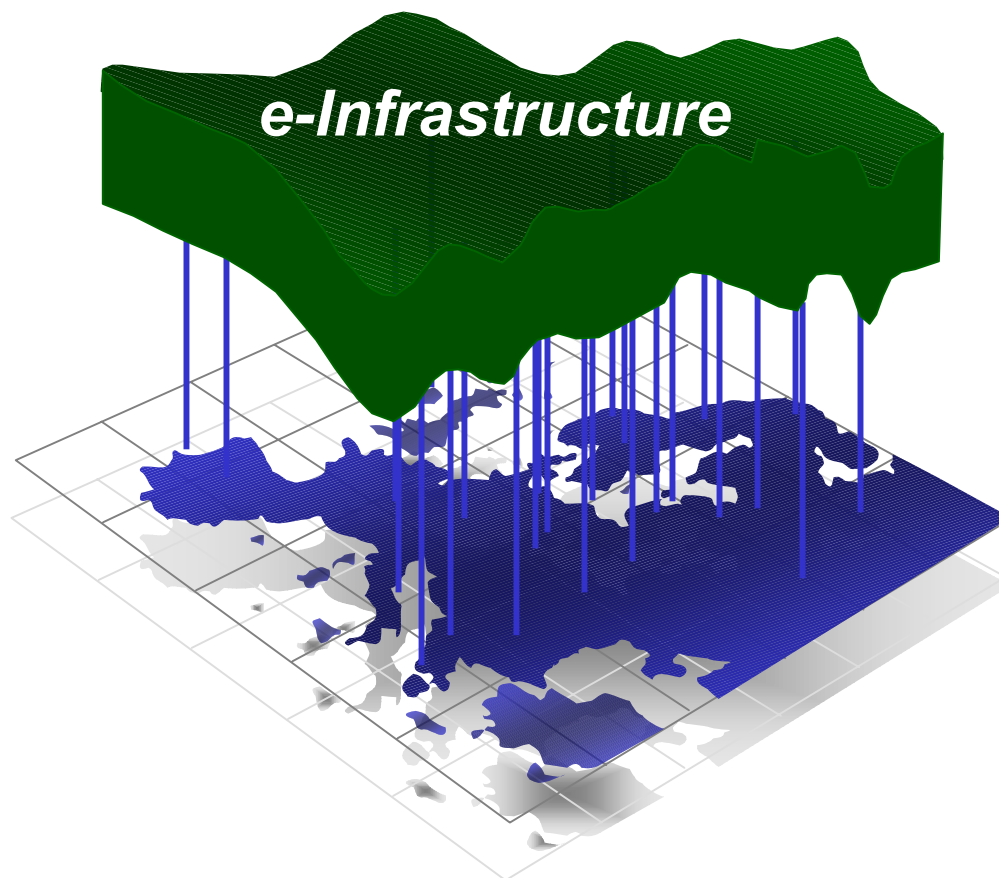
Moving towards an e-Infrastructure

In FP5, deployment of GÉANT and (e.g. IPv6/Grid) pilots

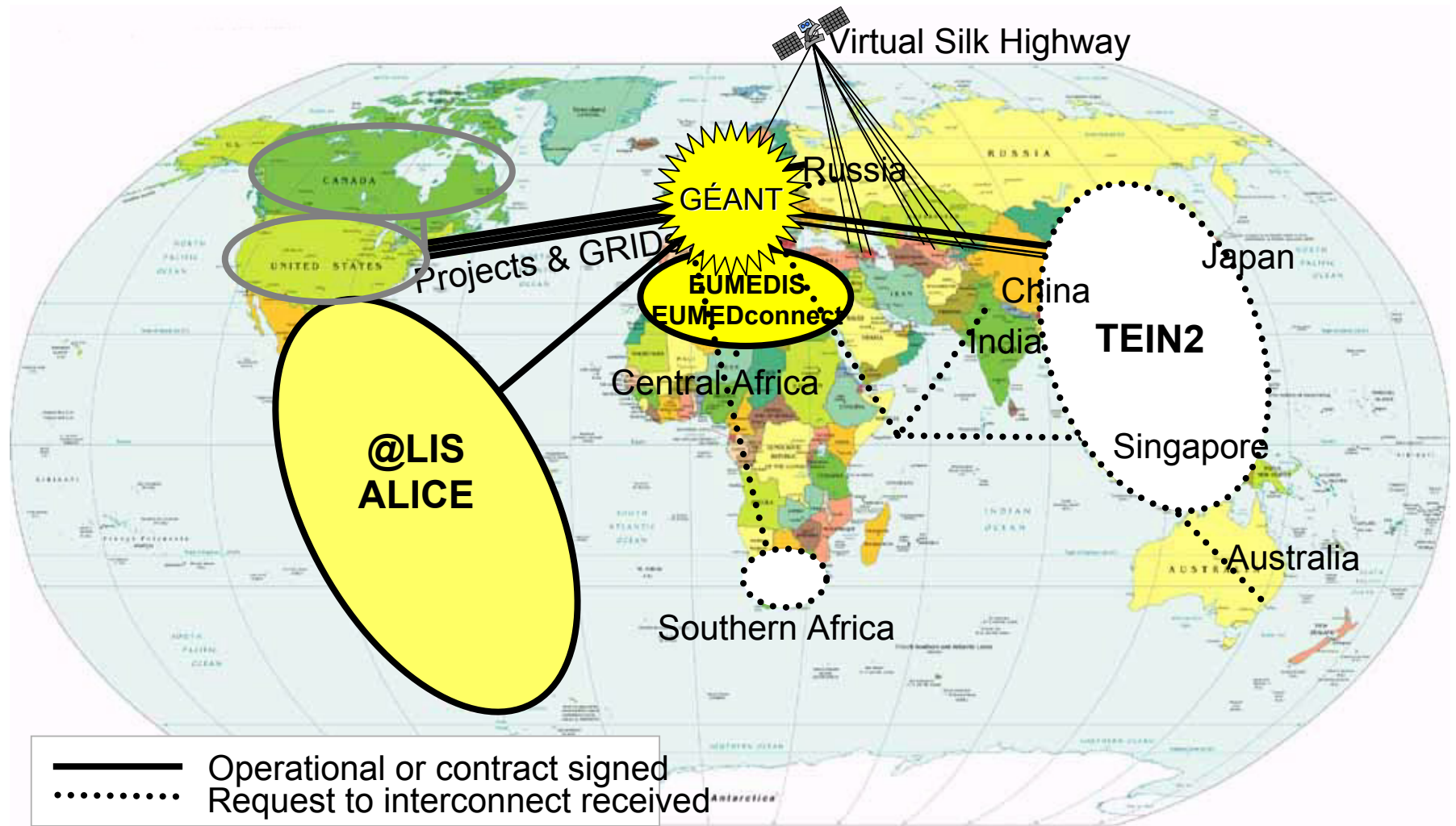


Moving towards an e-Infrastructure

In FP6, deployment of a Grid empowered e-Infrastructure,
fully IPv6 compliant



Interconnect e-Infrastructures / testbeds





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