GRNET-2 Update

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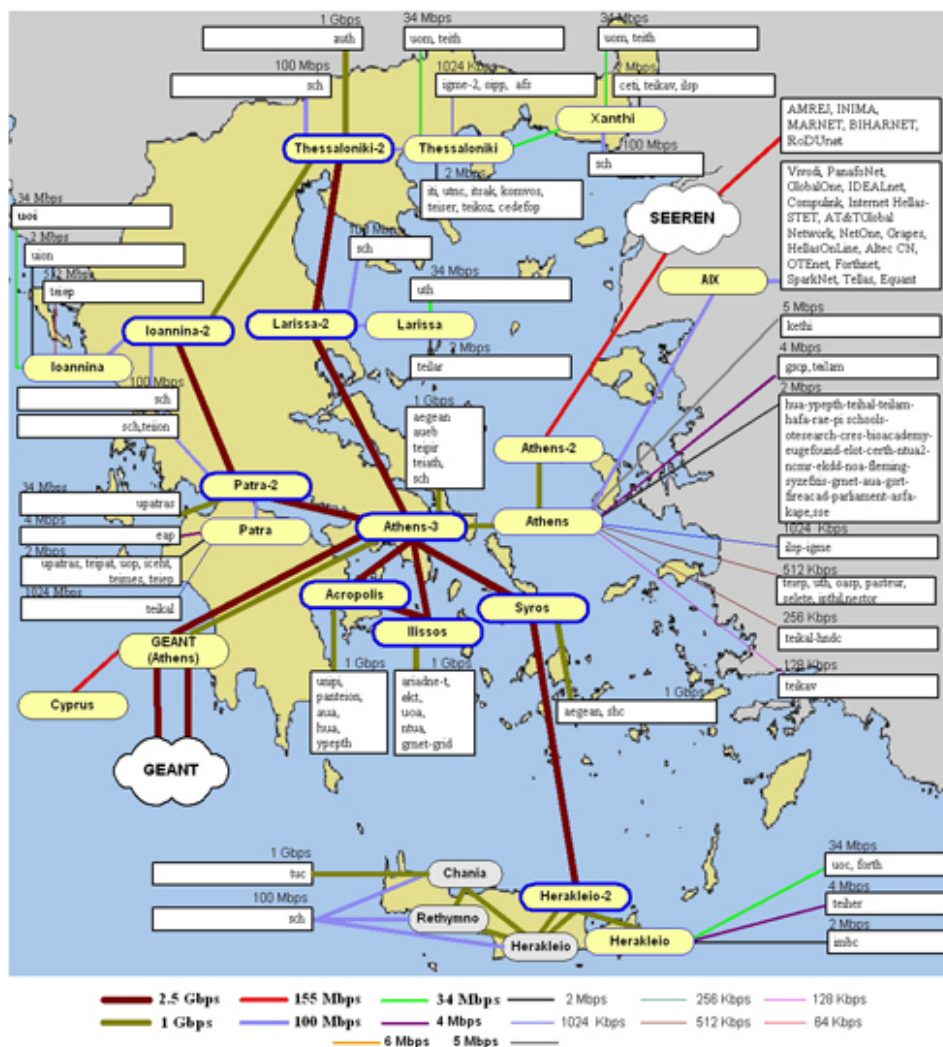
GRNET - Greek Research & Technology Network

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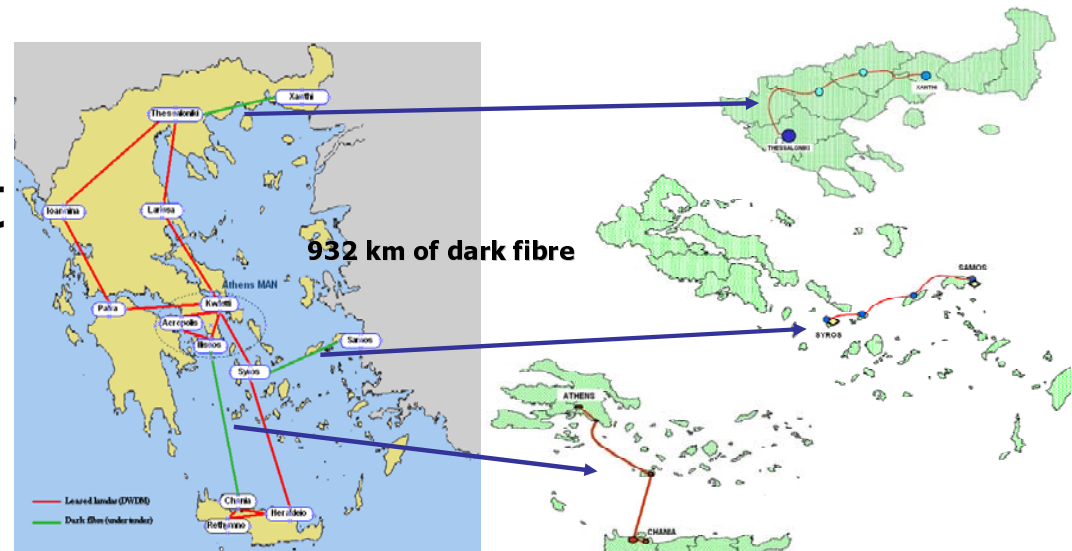
Athens, March 2006

GRNET-2 (ΕΔΕΤ-2) – March 2006

- Core 1/2,5 Gbps

- Access 2/34 Mbps – 1Gbps

- Services:
  - Real-time services & VoD
  - GRNET-CERT
  - Directory Services (LDAP)
  - IPv6
  - MPLS
  - ...

Under development (1)

- Contracts for Thessaloniki-Xanthi, Syros-Samos, Athens-Xania (dark fiber IRUs) – Viability

- ADVA FSP-2000 transmission equipment to be delivered

932 km of dark fibre

Under development (2)

- Access to GRNET-2 services for 1-2 years for all Research & Academic Institutes

- Tenders for MANs in Athens & Thessaloniki based on dark fiber IRUs
  - Call "93" will cover the rest of Greece

Under development (3)

- GRNET3 project to be approved soon

- Open Tender for dark-fiber based WAN – Proposals 4th April 2006

- RFI for Optical Equipment

- Cover most Greek cities with Universities or Research Institutes using dark fiber

- By extending optical-based GRNET to the borders, cross-border fiber is becoming a feasible solution

- Integration with Metropolitan Fibre Networks (MFNs)

Legend:
— Dark fibre (under tender)
— Dark fibre (planned)
— Long-term planned extensions

GN2 update

- Further develops the successful GN1 (FP5) project which has created the GEANT pan-European network

- Upgrade of the network backbone: GEANT2

- Emphasis on switched end-to-end provision of services across multiple interconnected networks

- Gaining improved understanding of user needs

- Direct support and performance monitoring

- Migration from IP services to combination of routing and switching, network control, light paths

GÉANT2
The world–leading research and education network for Europe.
★Connect ★Communicate ★Collaborate

	GEANT2 PoP@Athens	GRNET2 PoP@Athens

GEANT2 backbone — Alcatel MCC1678 — Juniper M160 — Cisco GSR 12000

— 10 Gigabit Ethernet (primary)
-- STM-16 (backup)
— STM-64 DWDM lambda (primary)
-- STM-64 DWDM lambda (backup)