

Sustaining R&E networks – lessons from around the world

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DANTE

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e-AGE 2012 Dubai





Europe:GEANT

"Without GÉANT a significant bulk of pan-European research cooperation would simply not function. GÉANT is a critical infrastructure for many projects*."

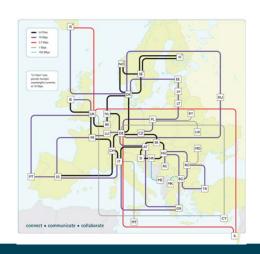
* Source: European Commission (2010): The Role of e-Infrastructures in the Creation of Global Virtual Research Communities. Final Study Report.



Critical European Infrastructure



- European regional R&E network since 1993
- Critical mass has been achieved, connecting:
 - 40 countries
 - 4,000 universities and institutes of further education
 - 1,600 research institutes
 - 2,500 'other' institutions including libraries, government departments, hospitals and museums are connected
 - 20,000 schools





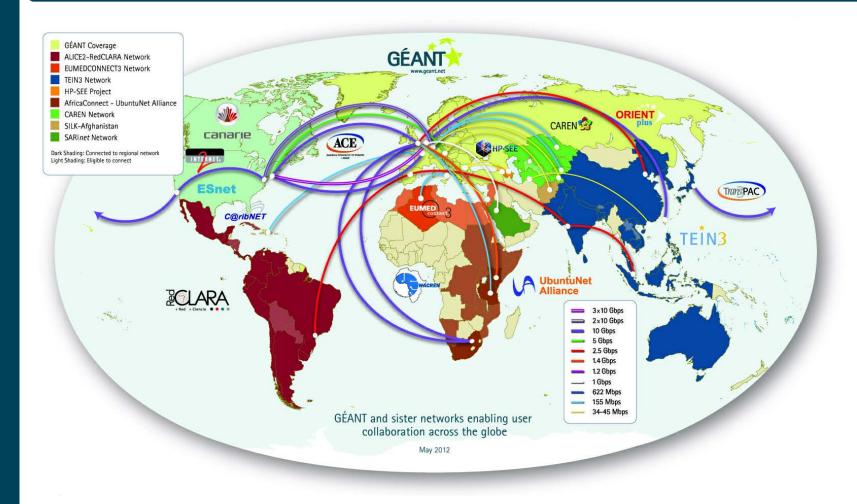
A few success factors for sustainability



- Funded by national governments of NREN partners and the European Commission
- Single regional network providing scale economies
- Pan-European governance by the NREN partners
- Single implementing organisation (DANTE)
- Focus on meeting user needs (including emerging ones)
- Vision, commitment (and a little luck)

Global R&E connectivity









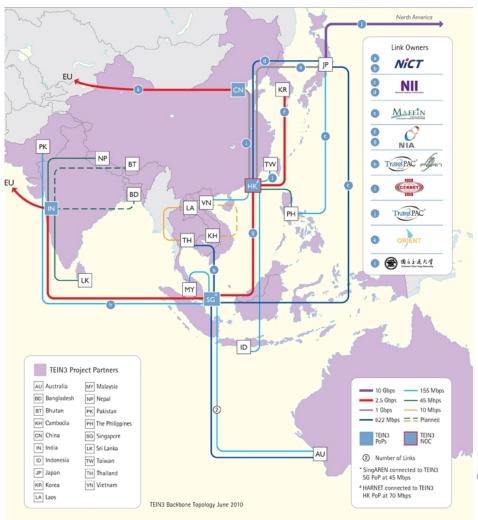
- DANTE-led project for Central Asia Research and Education Network
- Regional network since 2010
 - Connecting Kazakhstan, Kyrgyzstan, Turkmenistan and Tajikistan at 34 and 155 Mbps speeds
 - Half a million users at over 500 institutions
 - 80% (€5m) of its €6.25m budget from the EC. Second phase foreseen for 2014 – 2020
 - Supports region relevant applications:
 - Seismology, e-learning
 - History of co-operation between the

NRENs since 2002



Asia-Pacific: TEIN project





- Pan-Asian regional network since 2006
- 18 Asia Pacific countries connected
- 50M+ connected users
- Managed by DANTE from outset to 2012
- New Phase TEIN4 2012 2016
 - Managed by TEIN* Cooperation Center (Not for profit supported by Korean government)
 - Governance model includes NREN partners
 - Supported by DANTE
 - 3rd tranche of EC funding

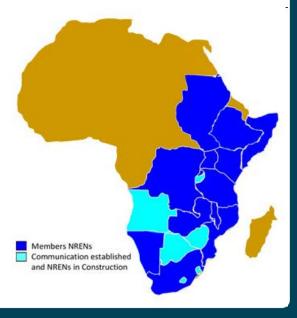


Sub-Saharan Africa: AfricaConnect



- 4-year project divided in Planning/Procurement Phase and Operational Phase started May 2011
- Total Budget of 15 M Euro (80% EC, 20% partners)
- Partners:
 - UbuntuNet Alliance
 - UbuntuNet Alliance member NRENs
 - WACREN and Association of African Universities
 - DFN, GARR, FCCN, HEANET, JANET, SURFnet
 - DANTE as the Coordinating Partner
- Strong commitment and competence of Ubuntunet and other partners
- Second phase being prepared







Latin America: ALICE Creates CLARA

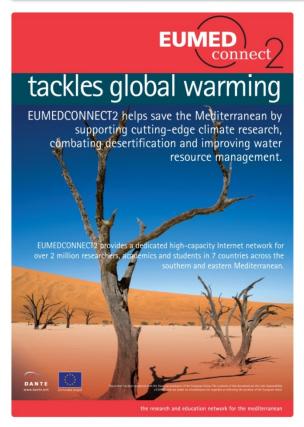


- Regional Network in South America
- ALICE (Latin America Interconnected with Europe)
 - EC-funded project coordinated by DANTE
 - 19 Latin American partners
 - 4 European NREN partners
 - Established CLARA, the Latin American R&E Networking Organisation
 - Created the Latin American RedCLARA network
 - Established interconnection with Europe
 - 12 LA nations now connected
 - Project management for ALICE2 (2008-2012) handed over to CLARA, which is now self governing
 - DANTE remains a Project Partner.



Users are the raison d'etre for R&E networking



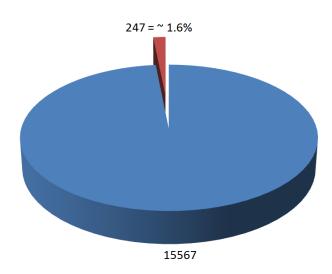


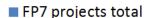




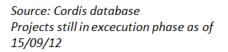
MED/GCC participation in FP7 projects

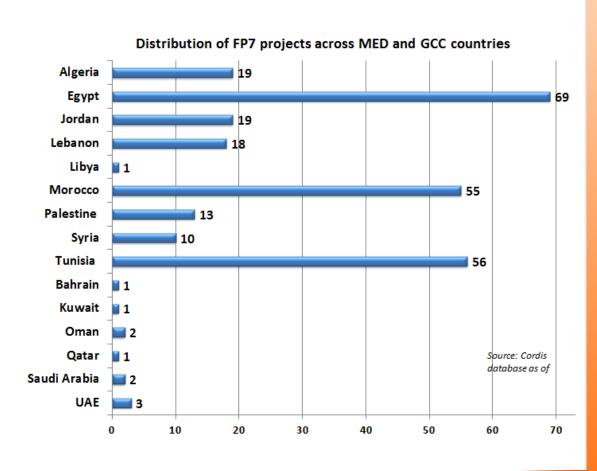






■ Projects with MED/GCC participation

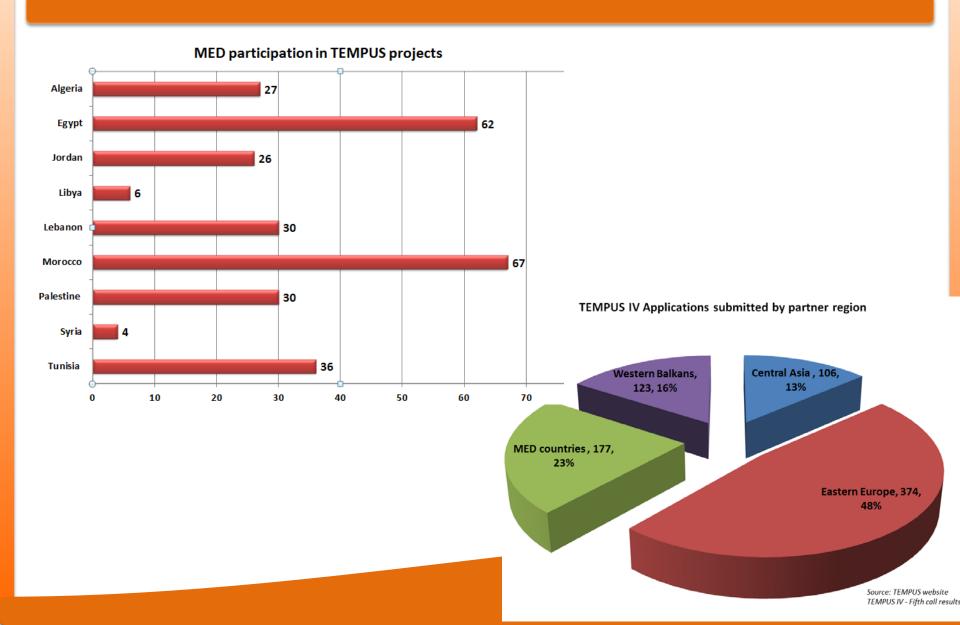






MED participation in TEMPUS projects









- Phase started 1 Sept 2011 with 36 42 month term
- Up to 3.3M Euro EC funding, up to 36% EC funding contribution
- Co-ordinating Partner: DANTE
- Beneficiary Countries: Algeria, Egypt, Jordan, Lebanon, Libya,
 Morocco, Palestine, Syria, Tunisia
- Other Arab countries welcome to join at own cost
- ASREN is key for long term sustainability, needs support of all regional NRENs to be successful.
- www.eumedconnect3.net/



Thanks! Q/A?

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