



Achievements and Plans of the TEIN Programme

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Thailand National Launch event

15 June 2009



TEIN2 Network 2004 – 2008 (network from 2006)

TEIN3

10 circuits contracted by DANTE

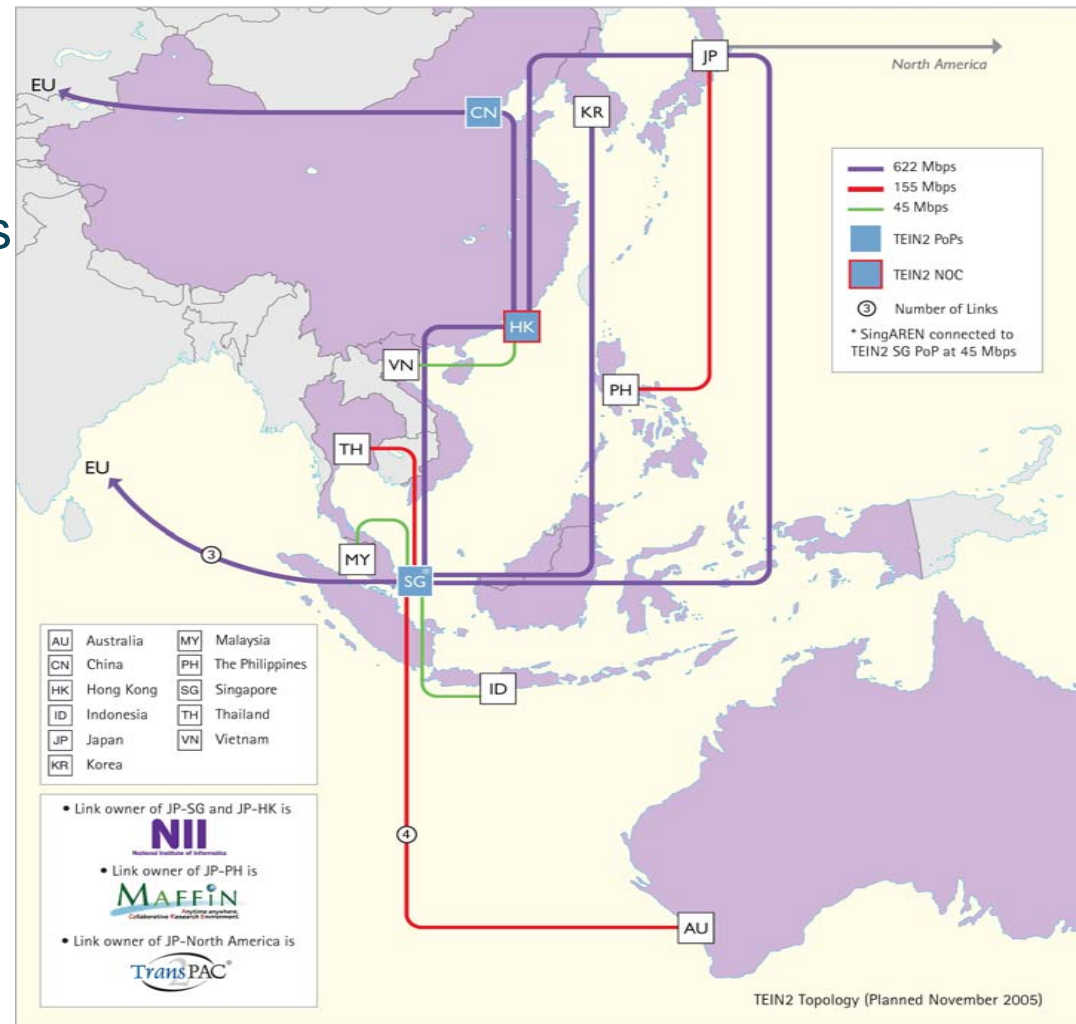
3 circuits provided by TEIN2 partners

Pops in Hong Kong, Singapore, Beijing + Tokyo (via APAN-JP)

TEIN2 NOC in Hong Kong

Coordinated by DANTE

10M Euro Co-funding from the European Commission



Was TEIN2 Successful?



“We regard TEIN2 as a huge success: it has connected Asian and European research and education communities for the first time, thereby promoting scientific co-operation among ASEM countries”

*Geoffrey Barrett, ASEM Coordinator, European Commission
June 2006*



Why did the EC say that?



- 30M+ users, 4000 sites, 10 partner countries
- Applications in tele-medicine, radio astronomy, typhoon forecasting, e-learning, cultural heritage etc
- 200 technical trainings for beneficiaries, high satisfaction ratings
- National networks developed fast in all beneficiary countries
- All partners demonstrated great commitment to the TEIN2 programme
- ASEM governments also recognise the success



TEIN3

Project term 2008-2011

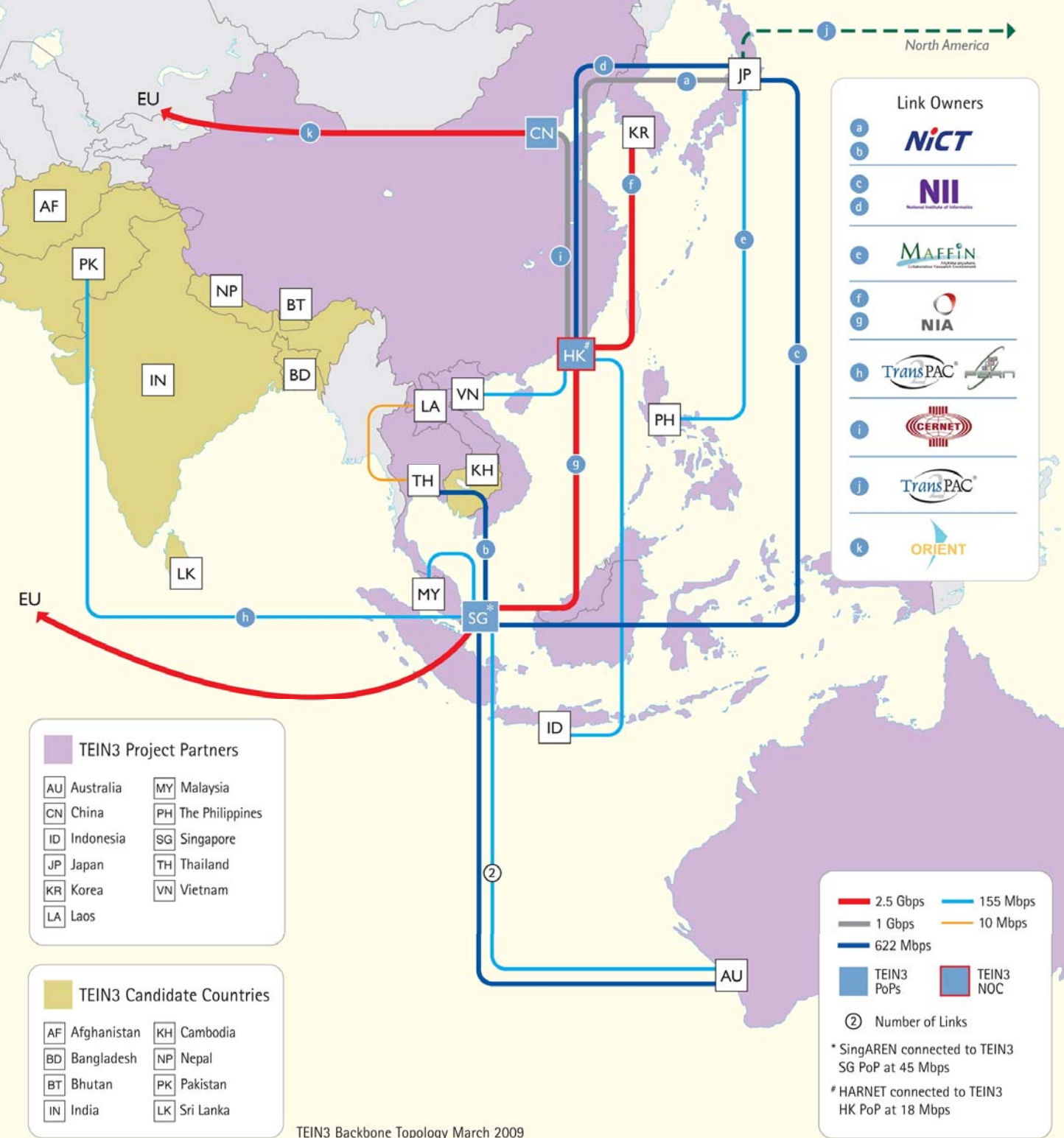
6 circuits contracted by DANTE, 9 circuits by TEIN3 partners

Migration to TEIN3 completed

11.4M Euro co-funding from the European Commission

TEIN3 topology – March 2009

The Research and Education Network for Asia-Pacific



TEIN3 Backbone Topology March 2009

TEIN3 Network Highlights



- New Singapore PoP at Global Switch
- New Juniper M120 routers in Singapore and Hong Kong
- Singapore – EU upgraded to 2.5 Gbps
- Singapore – HK upgraded to 2.5 Gbps,
- Beijing – EU 2.5 Gbps provided by CERNET
- Transit to North America via TransPAC2 continues



TEIN3 Partner Access Capacities



- Indonesia – 45 ➡ 155 Mbps
- Laos – 10 Mbps (via ThaiREN, being provided)
- Malaysia - 45 ➡ 155 Mbps
- Philippines – 10 Mbps (via MAFFIN)
- Thailand - 155 Mbps (migrated to NICT Singapore/Bangkok link)
- Vietnam - 45 ➡ 155 Mbps

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- Australia – 622Mbps ➡ 933 Mbps
 - China 2.5Gbps
 - Hong Kong - 18 Mbps
 - Japan – NII 2 x 622Mbps,
 - Japan - NICT 2 x 1Gbps,
 - Korea - 622 Mbps ➡ 2.5 Gbps
 - Singapore - 45 Mbps



- CERNET – BJ – EU 2.5 Gbps, BJ – HK 1Gbps
- MAFFIN: Tokyo – Manila 155 Mbps
- NIA: SG – HK 2.5 Gbps
- NICT: Tokyo – HK 1 Gbps, Tokyo – Singapore 1 Gbps, Singapore – Bangkok 622 Mbps
- NII: Tokyo- SG 622 Mbps, Tokyo – HK 622 Mbps
- ThaiREN – Transit for Laos
- TransPAC2: Trans-Pacific transit



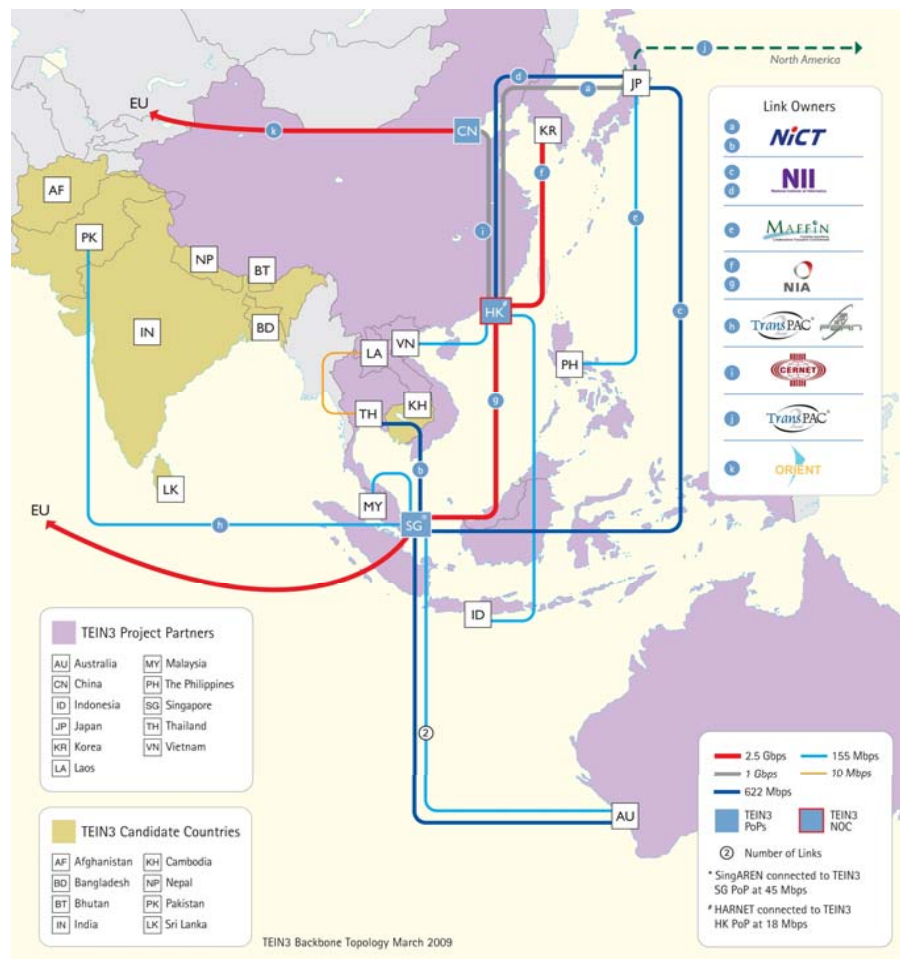
TEIN3 South Asia Extension



Tendering underway:

- Bangla Desh – BdREN
- Bhutan – RUB
- India – ERNET
- Nepal – NREN
- Pakistan – PERN
- Sri Lanka - LEARN

Due to connect to TEIN3 from Q4 2009



- EuAsiaGrid
- THEOS – Thai Earth Observation Satellite
- GEOSS, Singapore Earth Observatory
- Crop Research/IRRI
- Firewatch Indonesia
- Bio-informatics initiatives
- Federated IP-USN Testbed on TEIN3
- CanalAVIST
- Linking country nodes SAARC Disaster Management System
- South Asia Tele-health roadmap



Central Asia Research and Education Network (CAREN)



- New EC funded regional R&E project for Central Asia
- 5 Beneficiary countries:
- Duration 1 Jan 2009 – 31 Dec 2011
- Managing Partner: DANTE

First CAREN Project Meeting Central Asian Research and Education Network




Needed:

- Users continuing to produce innovative international collaborations
- Asian partners increase their funding shares
- Asian partners take ownership of the programme

The European view:

- Europe wants to continue to work with the Asian R&E community and a TEIN4 programme
- Further European funding support should not be ruled out but TEIN4 needs the Asian partners/users commitment





Thanks for your attention, and congratulations on
Thailand's TEIN3 launch programme!

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