

International Fibre Development

APRICOT 2 March 2010







In terms of fibre development in the recent years, key words are :

- "Increased Connectivity",
- "Bigger Capacity", and
- "Improved Diversity"





"Increased Connectivity"

More Submarine Cables are being constructed,

- Especially across the Indian Ocean, extending India to Middle East/Africa and to Europe

 E.g, WACS, IMEWE, TGN-EA and etc
- And the Intra-Asia and Asia-US region E.g., TGN-IA, AAG, Unity
 - Talk in progress SJC, APG...
- Better designed cables in terms of cable routing. E.g., avoid natural disaster-prone areas

"Bigger Capacity"

Existing Submarine Cables are also being upgraded,

- Lighting existing dark fibre pairs to enable more capacity
- Experimenting with new 40Gbps technology, and roadmap leading to 100Gbps in the future...

Cheaper capacity in the next few years will benefit customers and end-users

 A positive feedback loop: Cheaper Mbps + broadband applications → more capacity demand → more cables built and upgraded → cheaper Mpbs



TATA COMMUNICATIONS



"Improved Network Diversity"

Mix and match one's cable systems inventory to create a mesh network; improve network resiliency and diversity

Carriers are cooperating to strengthen cable restoration plans to improve network resiliency

 Aftermath of Taiwan Monsoon and Earthquakes – heightened awareness amongst carriers to review and update existing cable restoration plans and strengthen the communications between carriers

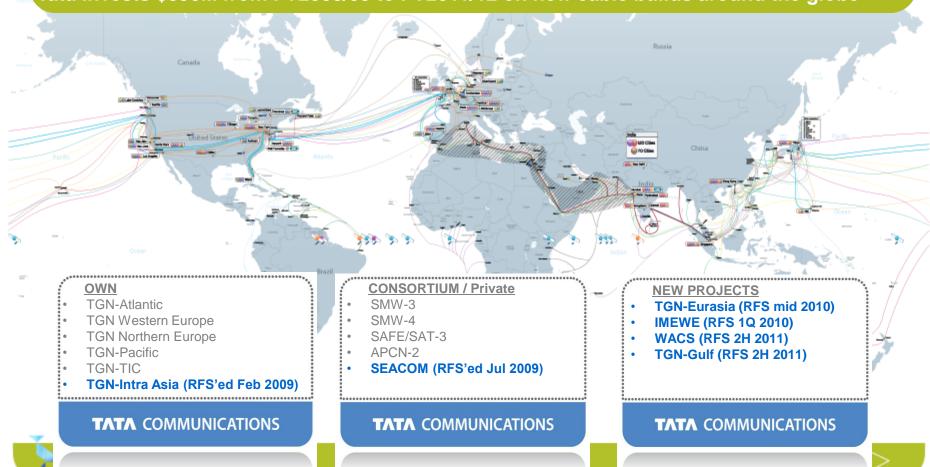




Ownership of one the most advanced, seamless global transmission networks

One of the global leaders in expanding network reach through new subsea cable builds and major investments in high demand systems

Tata invests \$890M from FY2008/09 to FY2011/12 on new cable builds around the globe





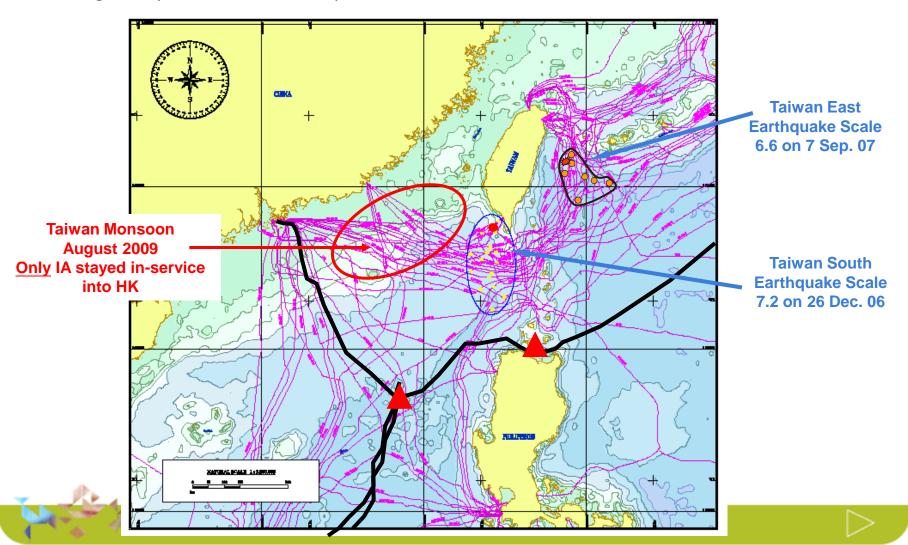
TGN-Intra Asia Cable System – RFS during 2009





TGN-IA's Resilient Architecture

Design away from Taiwan Earthquake Zone





TGN - Eurasia

Providing direct connectivity from Europe to India







SEACOM

- First Cable system connecting
 East Africa to India and Europe
- Length ~ 13,000 kms
- Design Capacity: 1,280 Gbps



RFS dates

Africa to India: July 2009

Africa to Europe: mid 2010





West Africa Cable System - WACS

Consortium cable providing connectivity from Europe to South Africa and other W. Africa countries



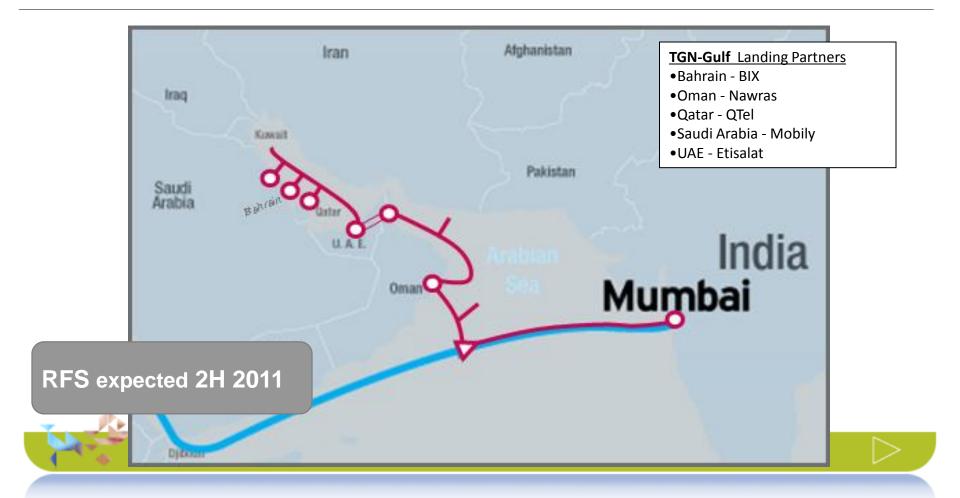




TGN Gulf

Connecting the Gulf Countries to India and the Rest of the World.

- MoU's signed during summer of 2009
- Agreement signed with Tyco, October 2009
- Complete system RFS planned for 2H 2011
- Discussions ongoing with other potential landing partners





AS6453: Globe spanning dual stack IPv4/IPv6 Tier-1 IP Backbone



■ 70% year over year traffic growth

- Carries 750+ Petabits globally per month;
- Fully dual stack IPv4 and IPv6





Thank You



