



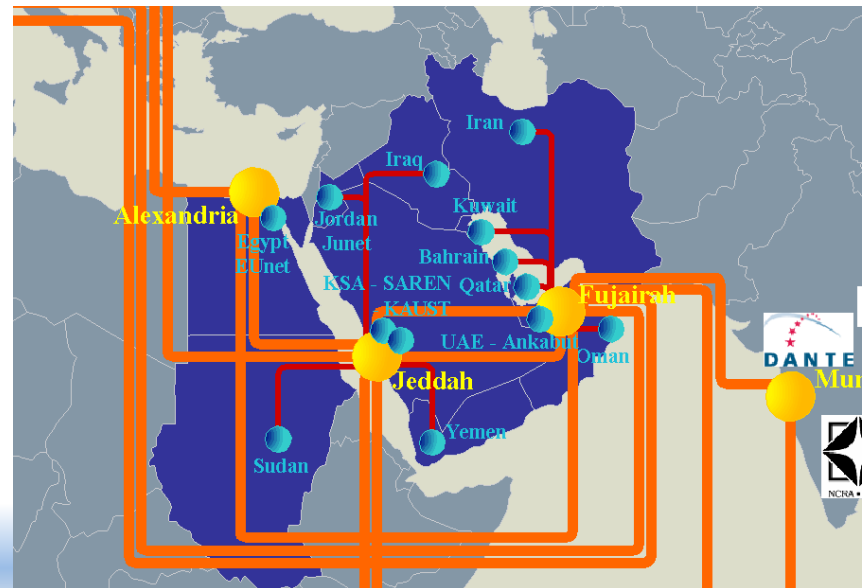
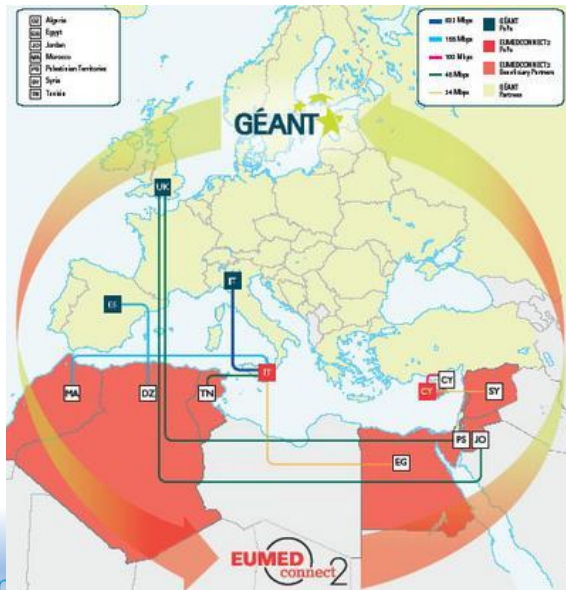
## Gulf Light Centre of Arab States NREN connectivity

Internet2 ME SIG  
Khalifa University, Abu Dhabi, UAE  
September 17<sup>th</sup> 2012

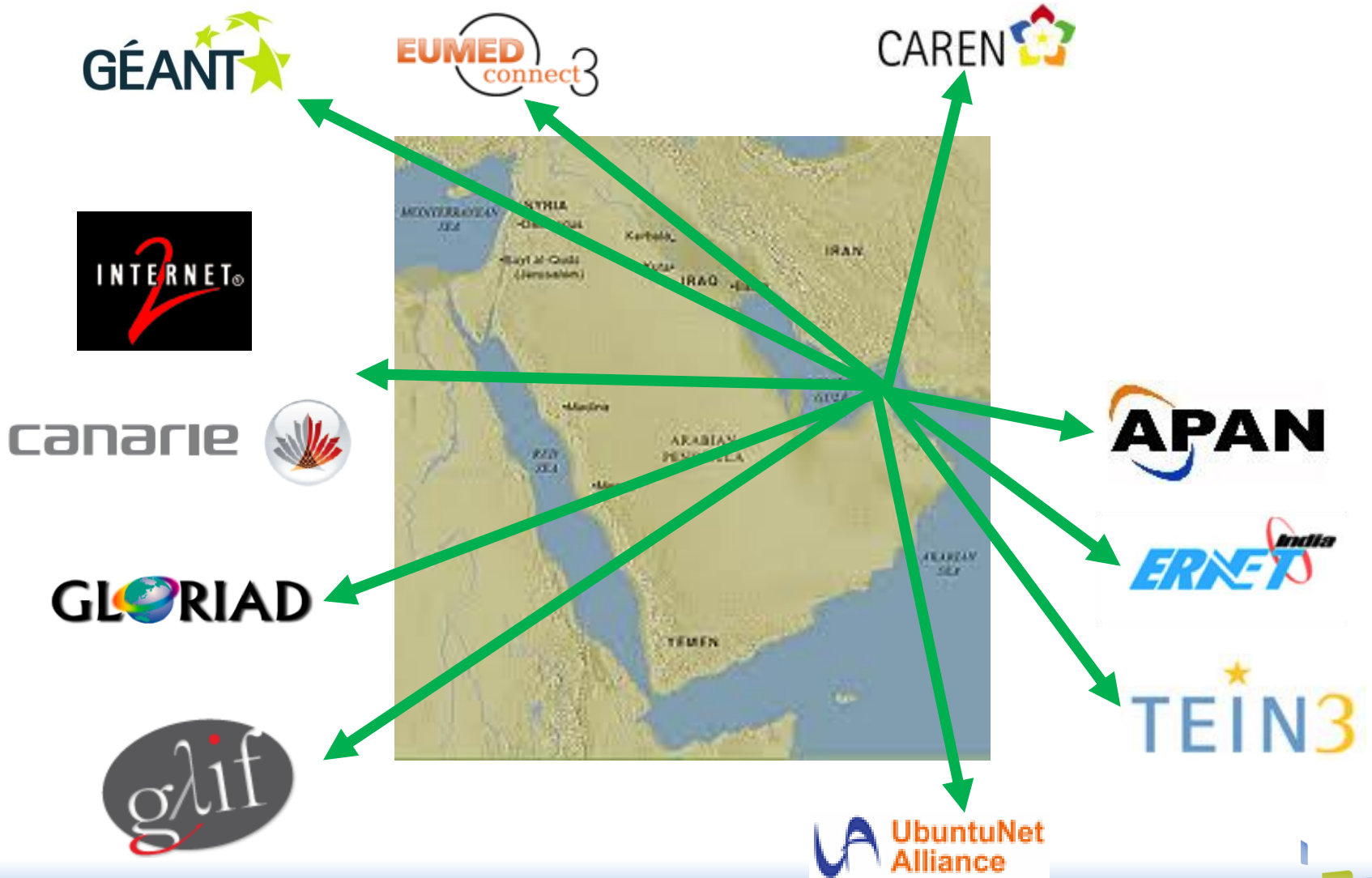
Yves Poppe  
Director Bus. Dev. & Strategy

## Interconnecting Arab States National R&E Networks

- Regional connectivity of Arab NREN's is essential to future growth
- An optimal and most cost efficient topology rests on two or three regional hubs congruent with the location of the most/best populated cable landing stations and facilities .
- The Fujairah Smarhub provides the ideal location and conditions.



## Gulf Light in Fujairah



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## Telecommunications arteries converging on Fujairah

### RCN



EIG



FALCON



TGN GULF

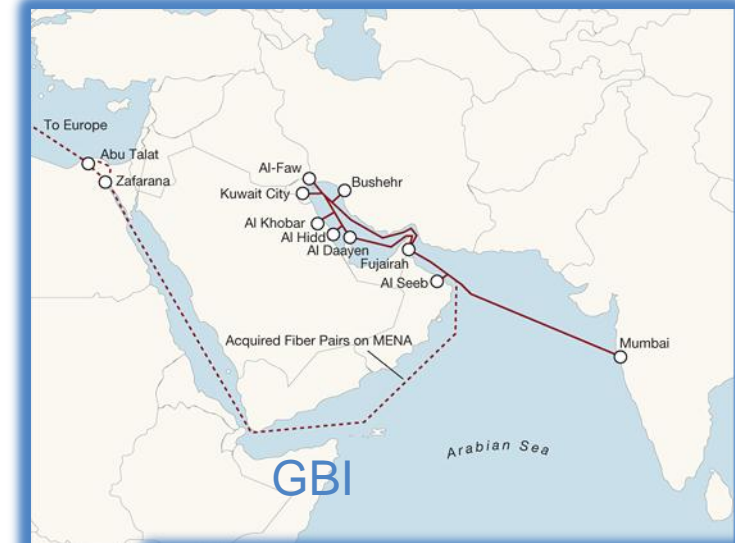


TGN EA



## Cable status as of september 2012

- SMW-4 had 1.62TBps lit at the end of 2011; 2012 upgrades will increase potential capacity to 4.8 Tbps
- IMEWE in service since december 2010 has 730Gbps lit capacity and a design capacity of 3.84Tbps
- TGN-EA Mumbai – Marseille in service since end 2011.
- TGN-Gulf in service since february 2012; lit capacity of 160gbps, design capacity of 2.56Tbps
- GBI is partially in service since february 2012 with 170gbps initial capacity (lit part not public) and 2.56Tbps design capacity.
- FLAG FALCON operational since 2006 now has 520 gbps capacity upgradeable to 6.4Tbps
- EIG : Egypt part completed in january 2012, whole system now operational
- MENA: RFS sheduled for Q4 2012 (will link GBI)
- RCN is life since august (unprotected mode)

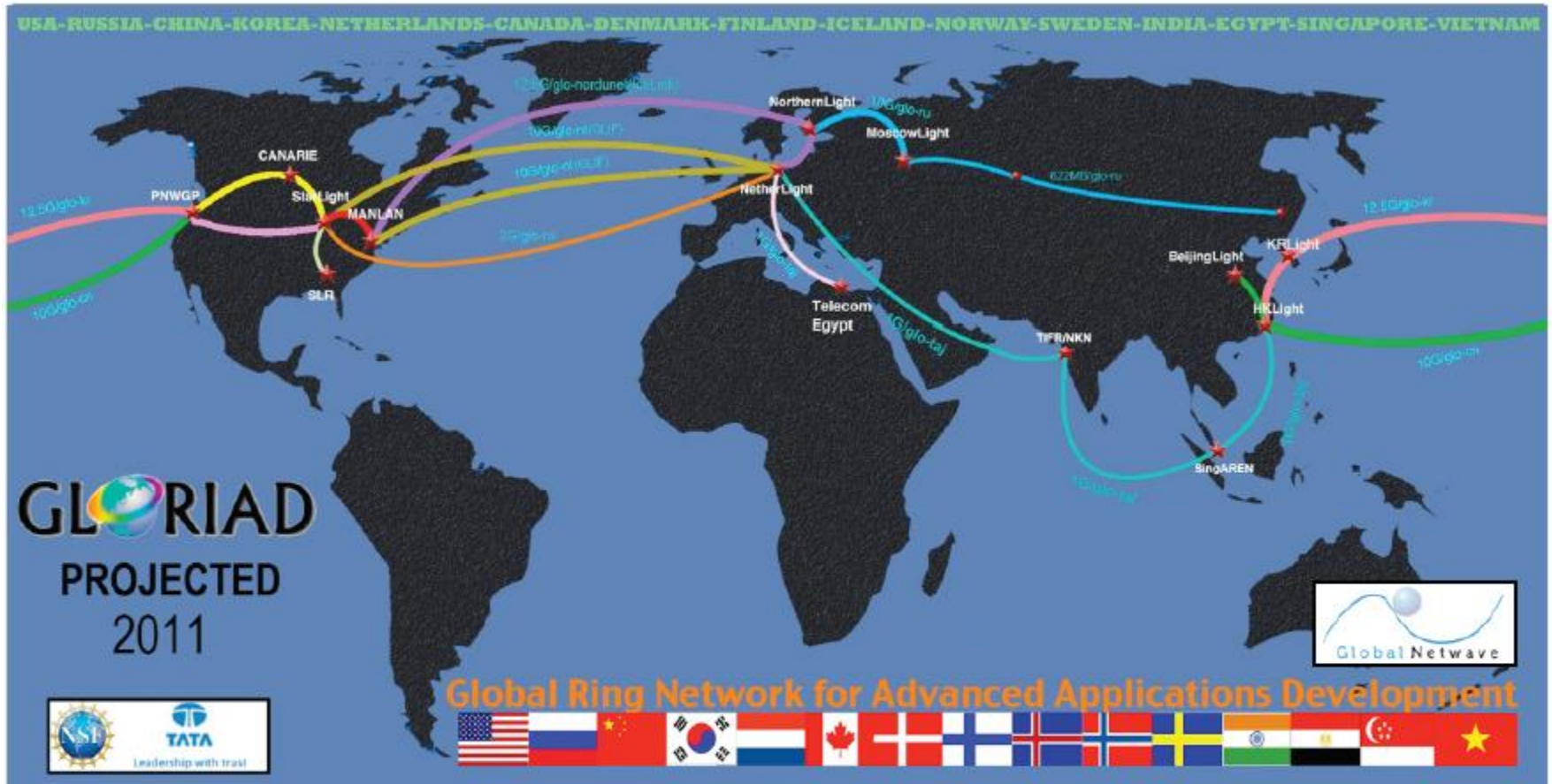


Maps: Telegeography



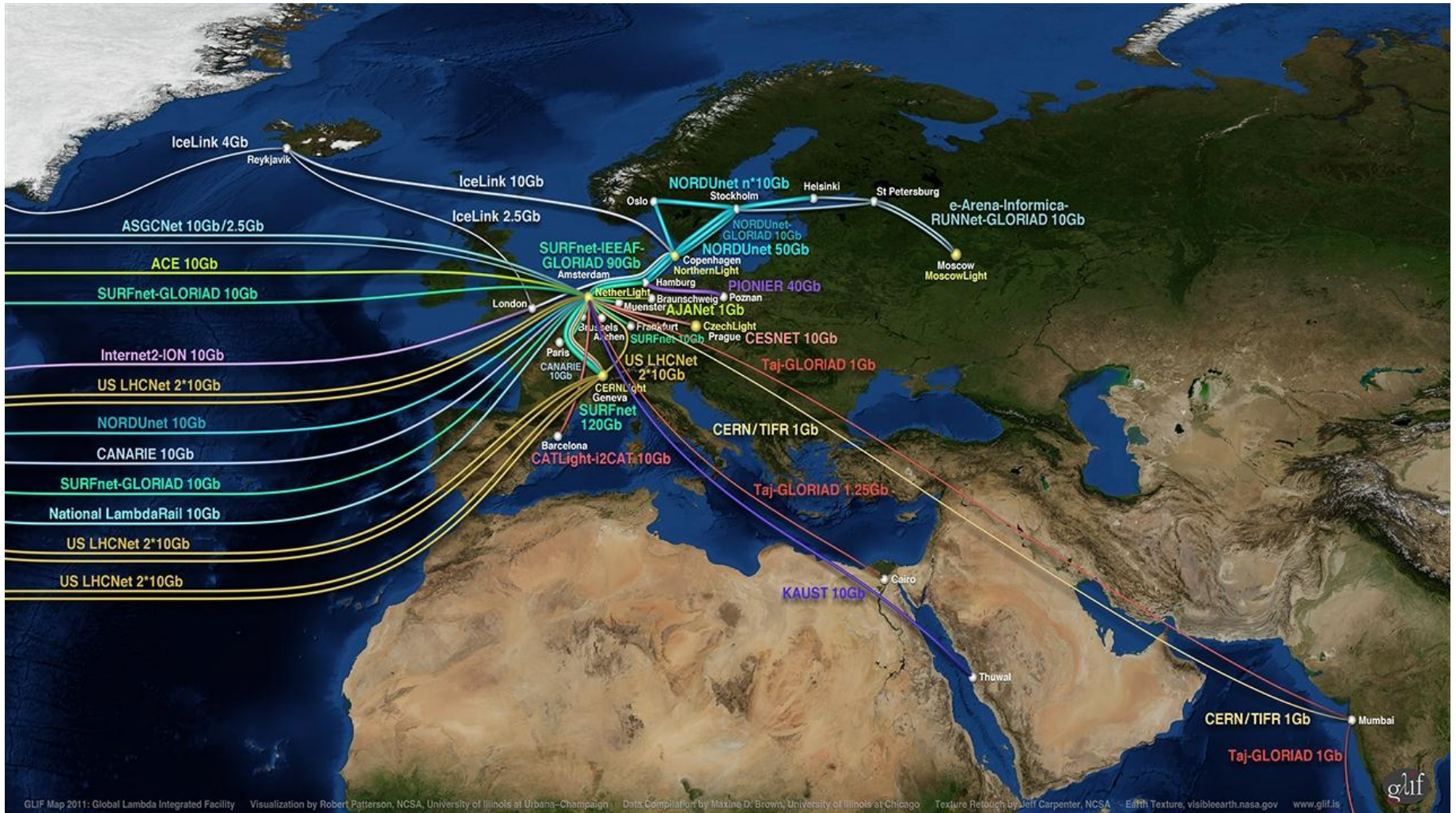


## Taj-Gloriad lambda R&E network



- Partners: SURFnet, NORDUnet, CSTnet (China), e-ARENA (Russia), KISTI (Korea), CANARIE (Canada), SingAREN, ENSTInet (Egypt), Tata Inst / Fund Rsrch/Bangalore Science Community, NLR/Internet2/NLR/NASA/FedNets, CERN/LHC
- Sponsors: US NSF (\$18.5M 1998-2015), Tata (\$6M), USAID (\$7.5M 2011-2015) all Intl partners (~\$220M 1998-2015)
- History: 1994 Friends and Partners; 1996 Civic Networking; 1997 US-Russia MIRnet; 2004 GLORIAD; 2009 GLORIAD/Taj; 2011 GLORIAD/Africa





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GLIF Map 2011: Global Lambda Integrated Facility Visualization by Robert Patterson, NCSA, University of Illinois at Urbana-Champaign Data Compilation by Maxina D. Brown, University of Illinois at Chicago Texture Retouch by Jeff Carpenter, NCSA Earth Texture, visibleearth.nasa.gov www.glif.is

The New World  
of Communications





The time has come to make  
Arab States NREN connectivity a  
reality

