

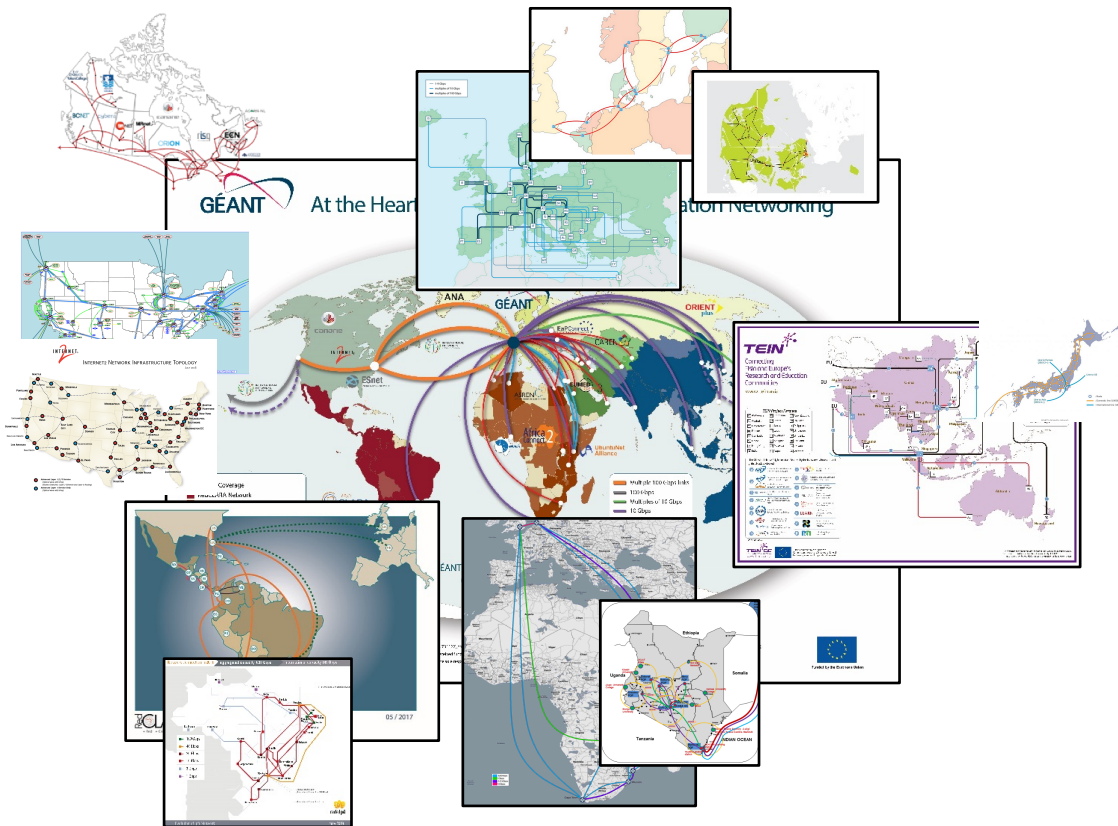
Global R&E Network Interactive Map

GREM Mapping Working Group

GNA Technical WG meeting

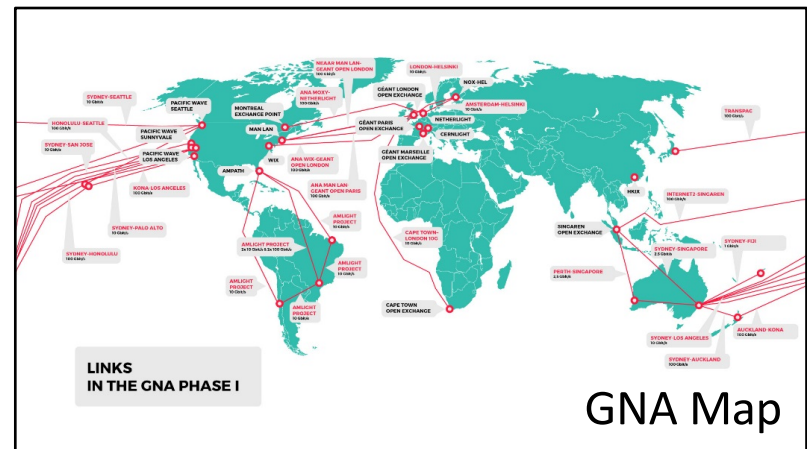
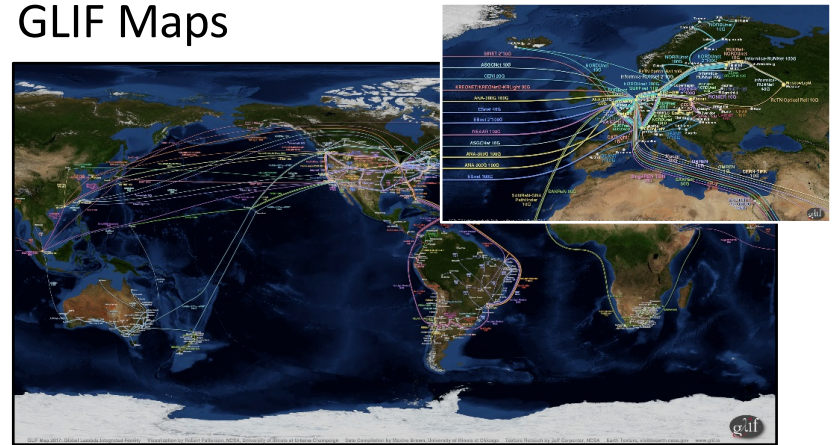
17 September 2018

The (Static) Story so Far...



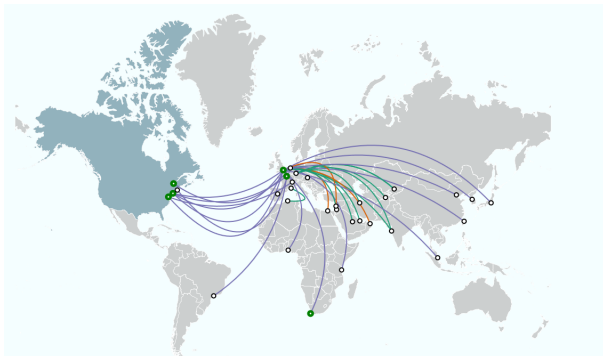
Global, Regional and National Backbone Maps

GLIF Maps

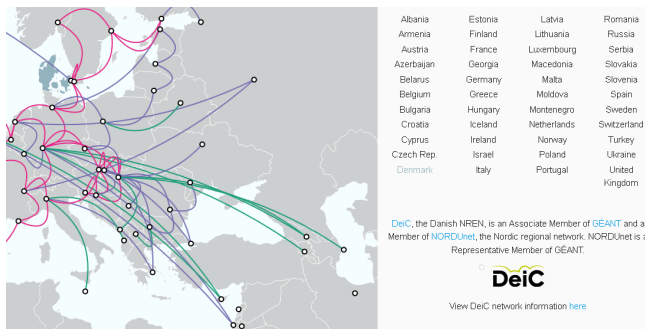


The GÉANT Interactive Map

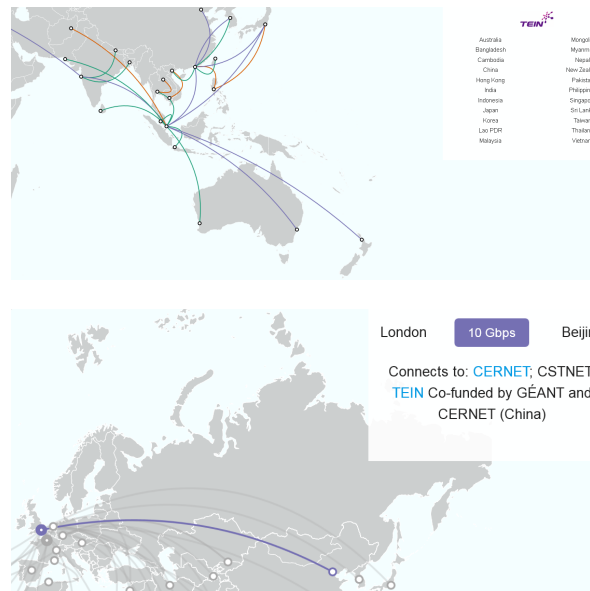
<http://map.geant.org>



Global connectivity between GÉANT and other world regions

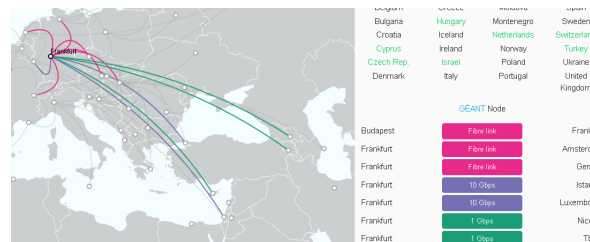


NREN Information and links



Regional network maps

Link information (network, speed, end points, funding)



PoP Information

Global REN Map Proposal – The Why?

- Support creation of maps
 - Avoid inconsistencies across maps
 - Enable organisational, domain specific, or special purpose maps (i.e, GNA)
- Useful tool for users:
 - Shows (whether/how) they reach counterparts in other parts of the world
 - Has the potential to show where global services (e.g. eduroam) are available
- Useful marketing tool for stakeholders:
 - Shows investors (institutions, public funding bodies) how their investment harnesses a huge global investment in R&E networking infrastructure
 - In countries where stakeholders doubt the need for an NRENs, demonstrates concisely that the NREN model is accepted as necessary the world over...

Global REN Map Charter

- Initial criteria for the success of a map visualisation:
 - Dynamic/interactive map, zoomable with selectable layers & sections, (also printable);
 - Ability to show intra- and inter-NREN nodes & connections, including meta information (e.g. link speed);
 - Ability to show connected institutions and major science infrastructure & instruments;
 - Data to be maintained by individual (N)REN operators & collected automatically in a common format, (reduces update overhead)
 - Achieve a critical mass of participation.

Next Steps...

- Working group involving CANARIE, GÉANT, Internet2, NORDUnet working on:
 - Outline of use cases; to be shared at GNA meeting at SC18; will invite community for further input
 - Draft metadata requirements to be included in technical solution to meet initial success criteria
 - Present user stories at future GNA meeting (Orlando?)
- **THIS IS A GLOBAL COLLABORATION:**
 - For Global REN Map to be successful, buy-in of RENs around the global to input data is vital.
 - Development will require software development input. NRENs invited to contact members of coordinating team if they might be able to assist.