



BELLA

Connecting Europe and Latin America for the next 25 Years

Tom Fryer (GÉANT) / Luis Cadenas (RedCLARA) | 13-06-18 | TNC18; Trondheim, Norway



South America at the heart of astronomy



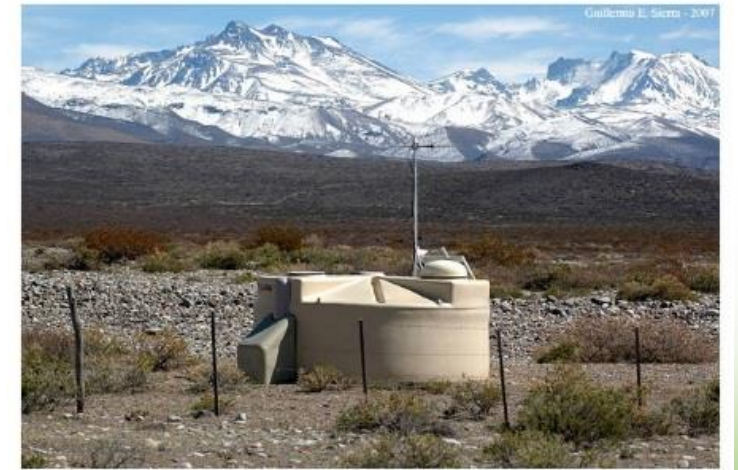
ESO Very Large Telescope (VLT). Credit: ESO/B. Tafreshi (twanight.org)



[ESO](#). Credit: ESO/S. Brunier



[ALMA](#). Credit: ESO/C. Malin

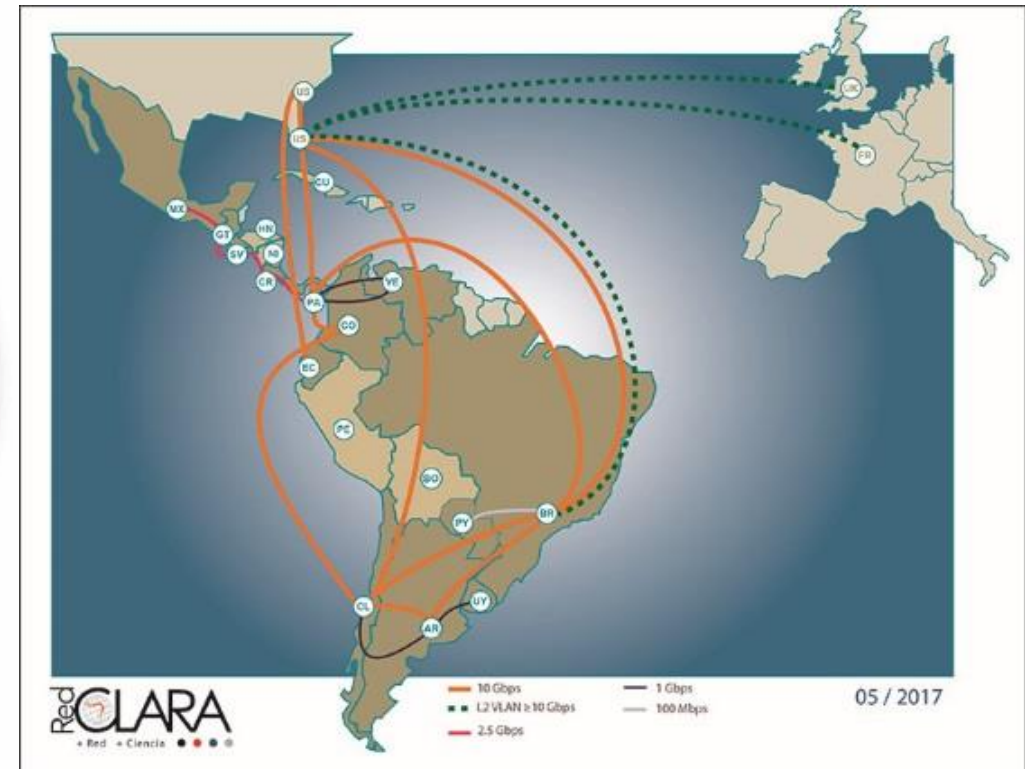
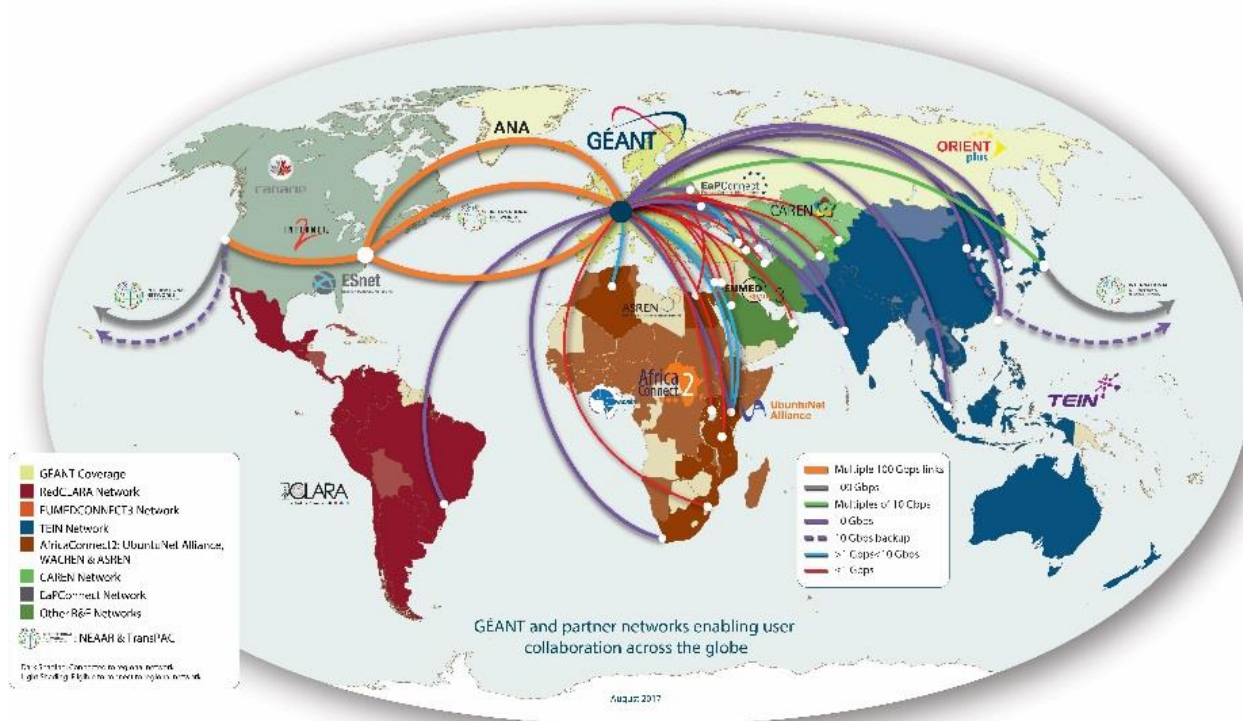


[Pierre Auger Observatory](#). Credit: © Guillermo Sierra 2007

It's not just astronomy...

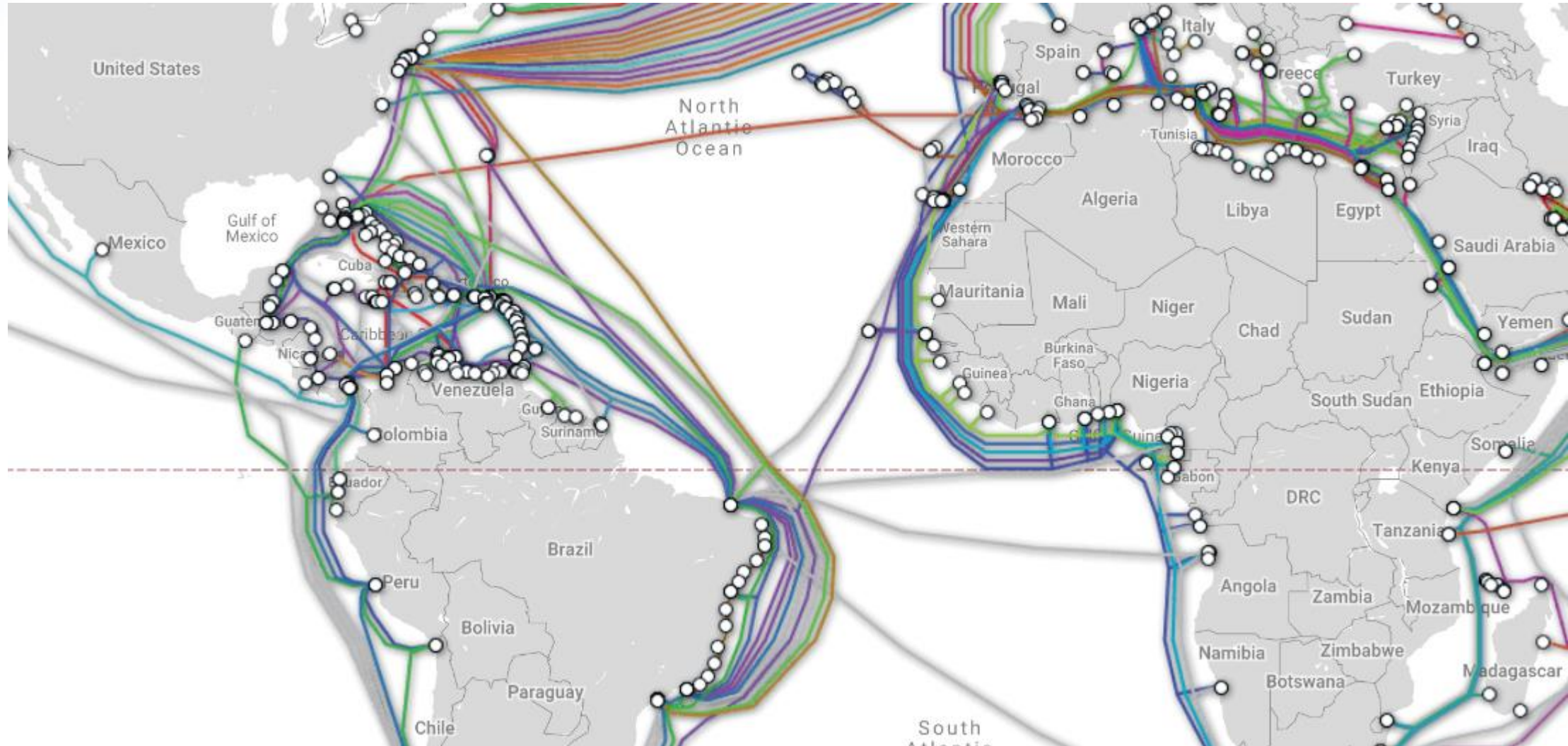


GÉANT-RedCLARA Interconnectivity Today



Europe-Latin America

Where are the Direct Cables?



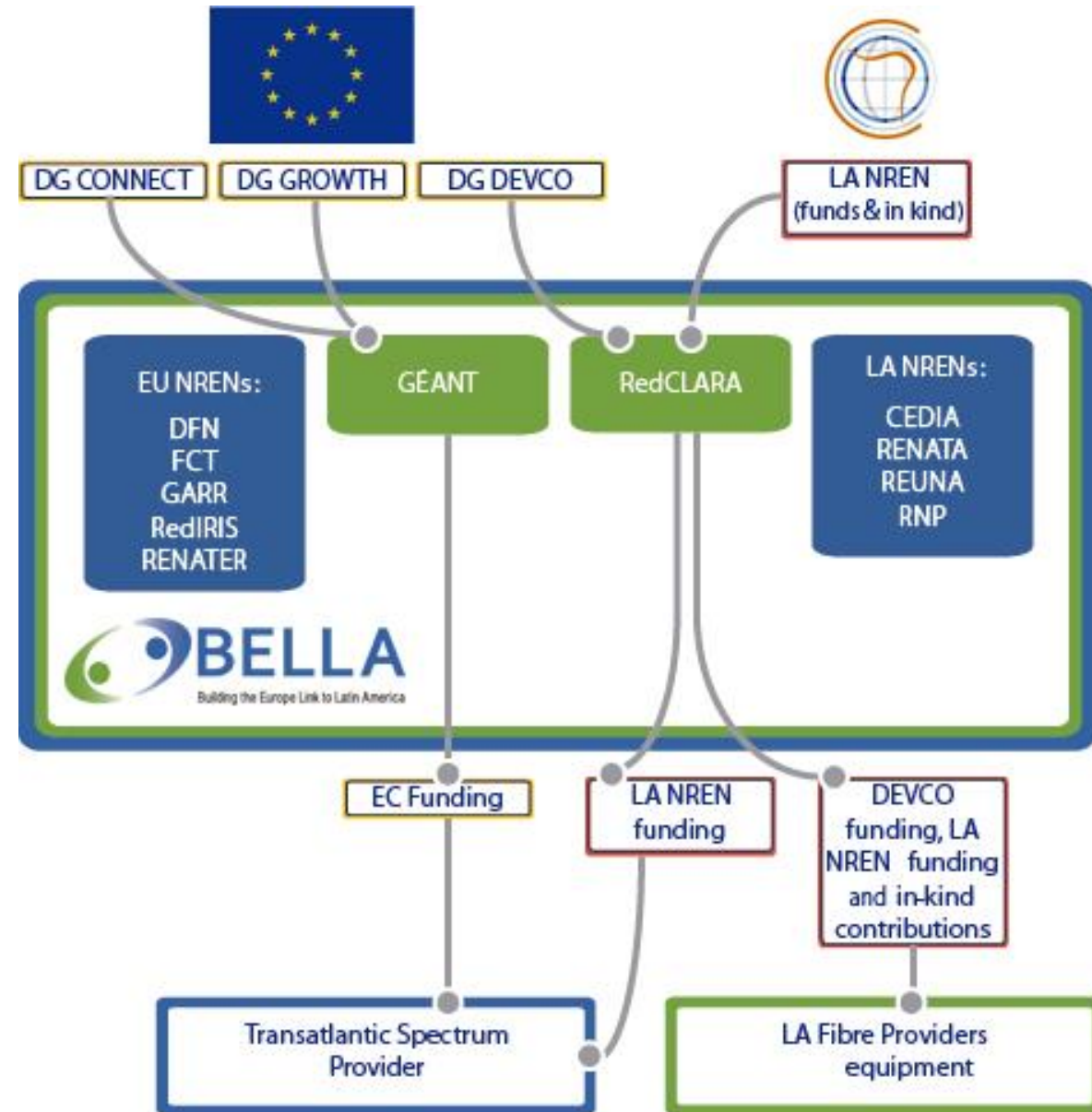
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Addressing the Challenge



- Spectrum on the direct Europe-Latin America submarine cable :
 - 2x100Gbps links for GÉANT-RedCLARA & Copernicus to start, both upgradeable
 - Additional links to be lit required
- Completing the RedCLARA dark fibre network and deploying a 100Gbps upgradeable network from Brazil to Colombia

Building BELLA



Towards Deployment:

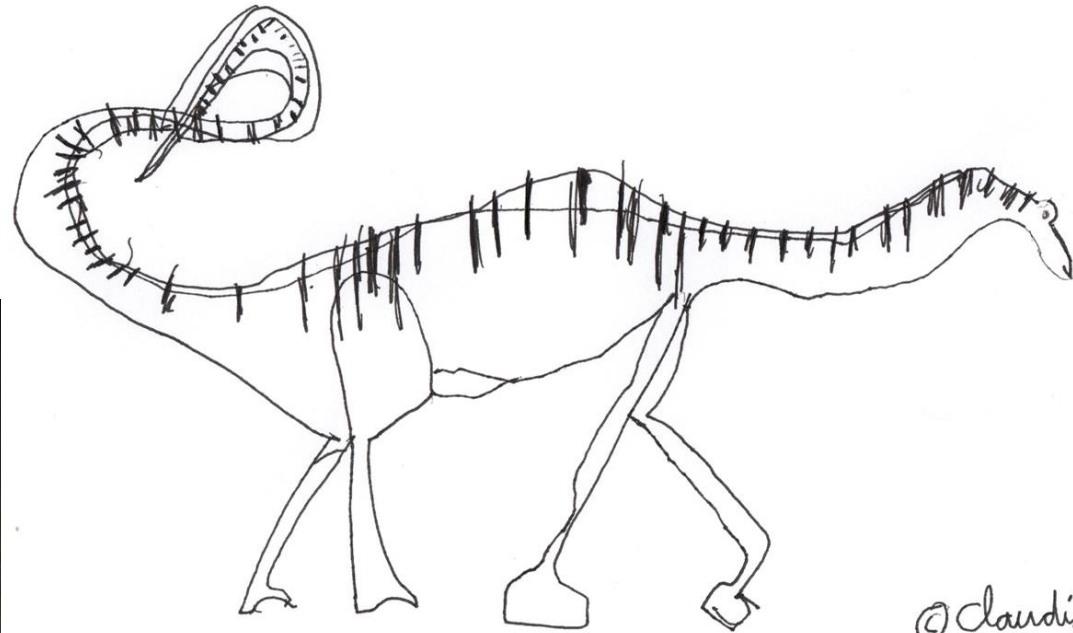
- Transatlantic Cable:
 - Procurement completed. Contract Signature in preparation.
 - Cable Construction to be completed in 2020; before then:
 - Marine survey
 - Build landing stations
 - Manufacture cable
 - Lay cable
 - Bring cable online



Towards Deployment:

- RedCLARA Backbone:
 - Some segments already in service or about to launch (e.g. Colombia, Chile)
 - Other segments under procurement
 - All to be completed and deployed by 2020

BELLA – For the Scientists of Tomorrow



@claudio