

A faint, light blue world map is visible in the background of the slide, centered behind the text boxes.

AmLight: Enhancing International High-Energy Physics Collaborations

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**Julio Ibarra
Asst. Vice President
Center for Internet Augmented
Research and Assessment
Florida International University**



Americas Lightpaths (AmLight):

Enhancing science research and education in the Americas



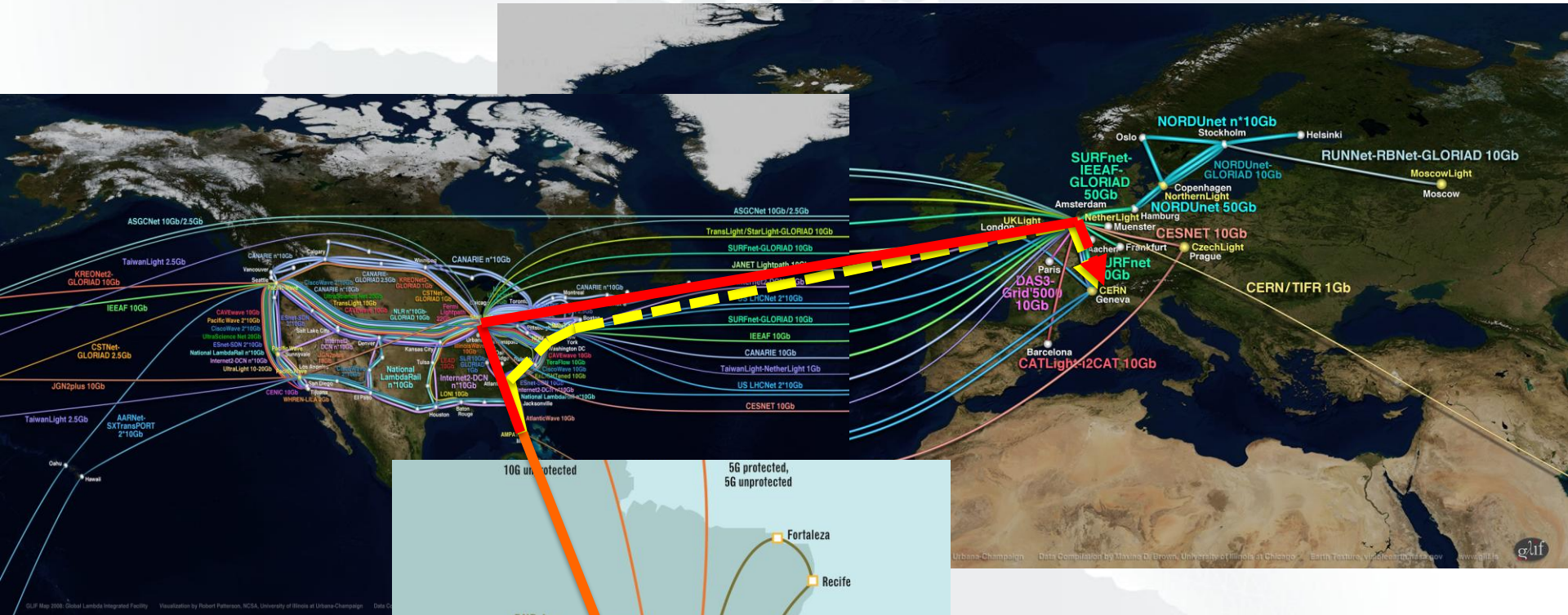
- AmLight East:
 - AMPATH (MIA)-SouthernLight (SAO): 2x10G
- AmLight West:
 - Tijuana-Los Angeles (PacificWave): 2x1G, evolving to 10G
- AmLight Andes:
 - SAO-SCL: 1G
- AmLight Central:
 - San Antonio-CUDI: 1G



PACIFIC WAVE



Brazil-US-NL-CERN Layer2 Path



Sao Paulo+Rio – CERN L2 path:

- SAO+RIO-MIA, AmLight
- MIA-NYC, AtlanticWave
- MIA-CHIC, FLR
- CHIC-AMS, SurfNet
- NYC-AMS, TBD
- AMS-CERN, SurfNet

Conclusion: Enhancing International High-Energy Physics Collaborations

- International High-Energy Physics collaborations between Brazil, U.S. and CERN currently use IRNC link to Latin America (AmLight)
- AmLight project partners, combined with FLR, AtlanticWave, StarLight, SURFnet and others provide layer2 paths from Sao Paulo and Rio to CERN
- CERN and the U.S. are now able to schedule more jobs to run on Brazil's computational resources, as a result of enhanced network services
- Future work:
 - Explore feasibility of leveraging ACE IRNC links for diverse path to CERN
 - Work with StarLight, MANLAN and other exchange points to improve services to the LHC international community

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- Latin American Research and Education community
- The many national and international collaborators



Thank You
Julio Ibarra <julio@fiu.edu>