ACE and NEAAR

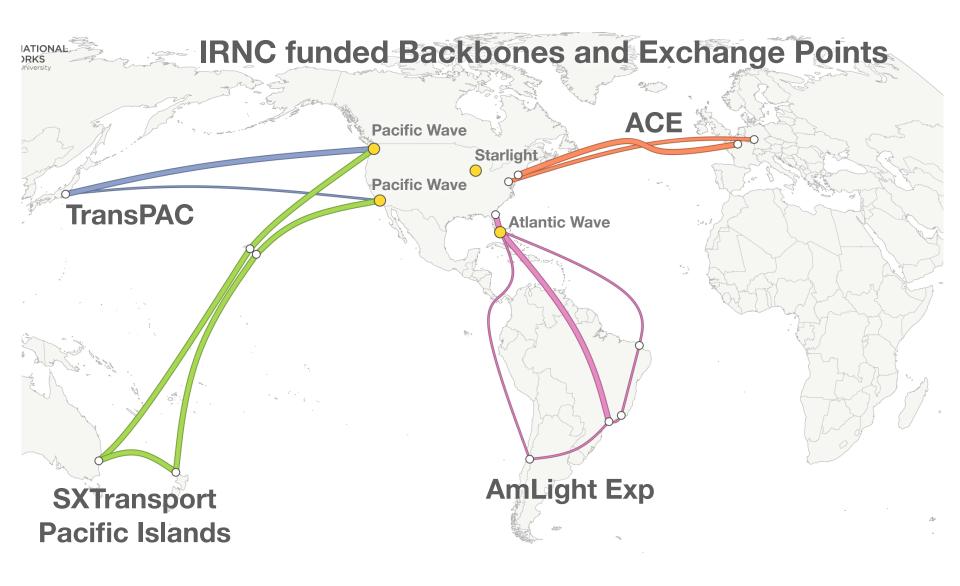


INTERNATIONAL NETWORKS At Indiana University Jennifer M. Schopf, PhD Director, International Networks University Information Technology Services Indiana University jmschopf@iu.edu Sept 28 2016

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ACE: America Connects to Europe

- 6 year project, ending in Dec 2016
- Funds circuits between US and Europe
- Also supports end users, monitoring, etc





Circuits

- Used to run
 - 30G LAG ManLan to Amsterdam
 - 30G LAG WIX to Frankfurt
 - Funded/supported 50-50 with GEANT

- Currently supports
 - 30G LAG WIX to Frankfurt (NSF-Funded)
 - 100G circuit ManLan-Paris (GEANT-Funded)





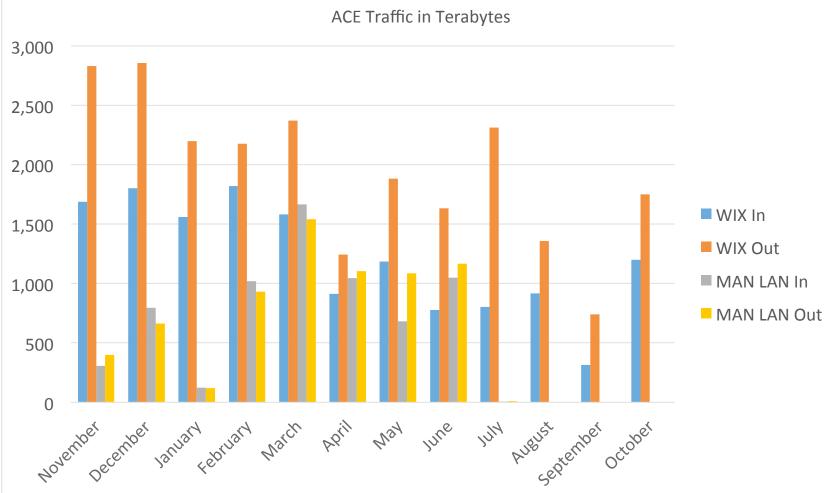
Who are the users?

- Research scientists
 - From the 10G flow data we see geoscience, biomedical, some HEP, some pass through to Europe
- Have hired an end-user science engagement person
 - Directly engage with user communities
- Focusing on end-to-end performance





Use of Circuits







Next Steps

- Still doing application support
- Still pursuing Monitoring and Measurement support
- Current circuits are extended through
 December 2016

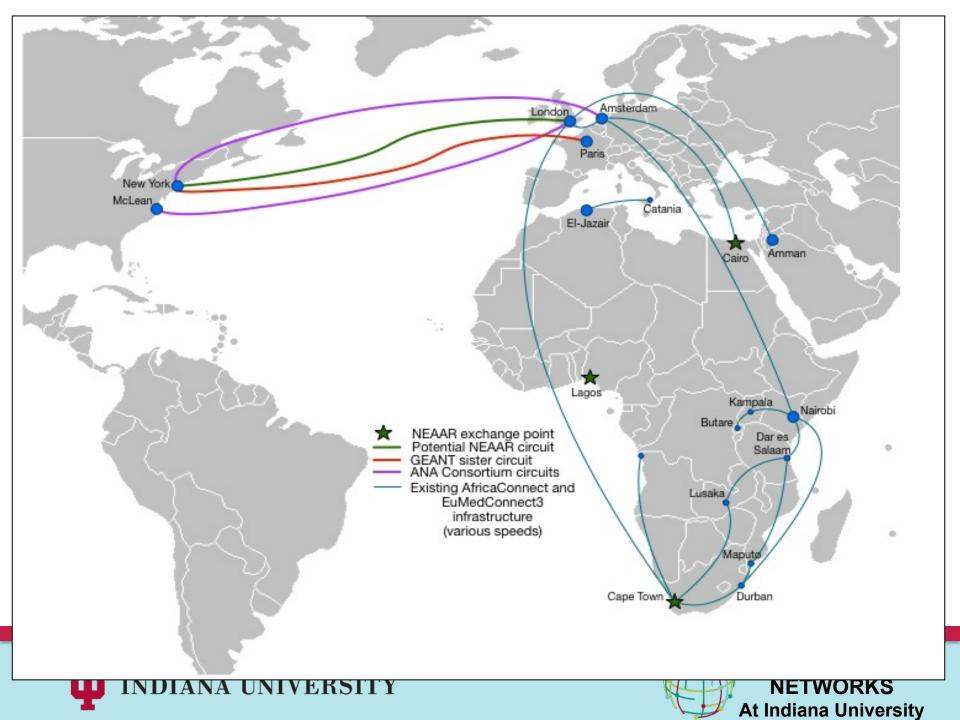




NEAAR: Networks for European, American, and African Research

- PI: Jennifer Schopf, Indiana University
- Partners: GEANT, UbuntuNet Alliance, WACREN, ASREN
- \$3.25M over 4 years





NEAAR Networking in a Nutshell

- 100G circuit US to Europe, in part to support R&E traffic from Africa
 - RFP currently out
 - Will overlap with ACE circuit
- Exchange point and data transfer node (DTN) in Western Africa





NEAAR is More than just a Network

- Science engagement in Africa and Europe
- Small perfSONAR node deployments, joint with African regional RENs
- NOC support and training for African regional RENS





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