

AMPATH Workshop

AMPATH Status Report

Julio E. Ibarra
Principal Investigator, AMPATH

August 16, 2001



Florida International University

AMPATH

What is AMPATH?

- AMPATH is a project led by FIU, in collaboration with Global Crossing (GC), to interconnect the R&E networks in South and Central America, the Caribbean and Mexico to US and non-US R&E networks via Internet2's Abilene network



What is AMPATH?

- AMPATH is built upon Global Crossing's terrestrial and submarine optical-fiber networks



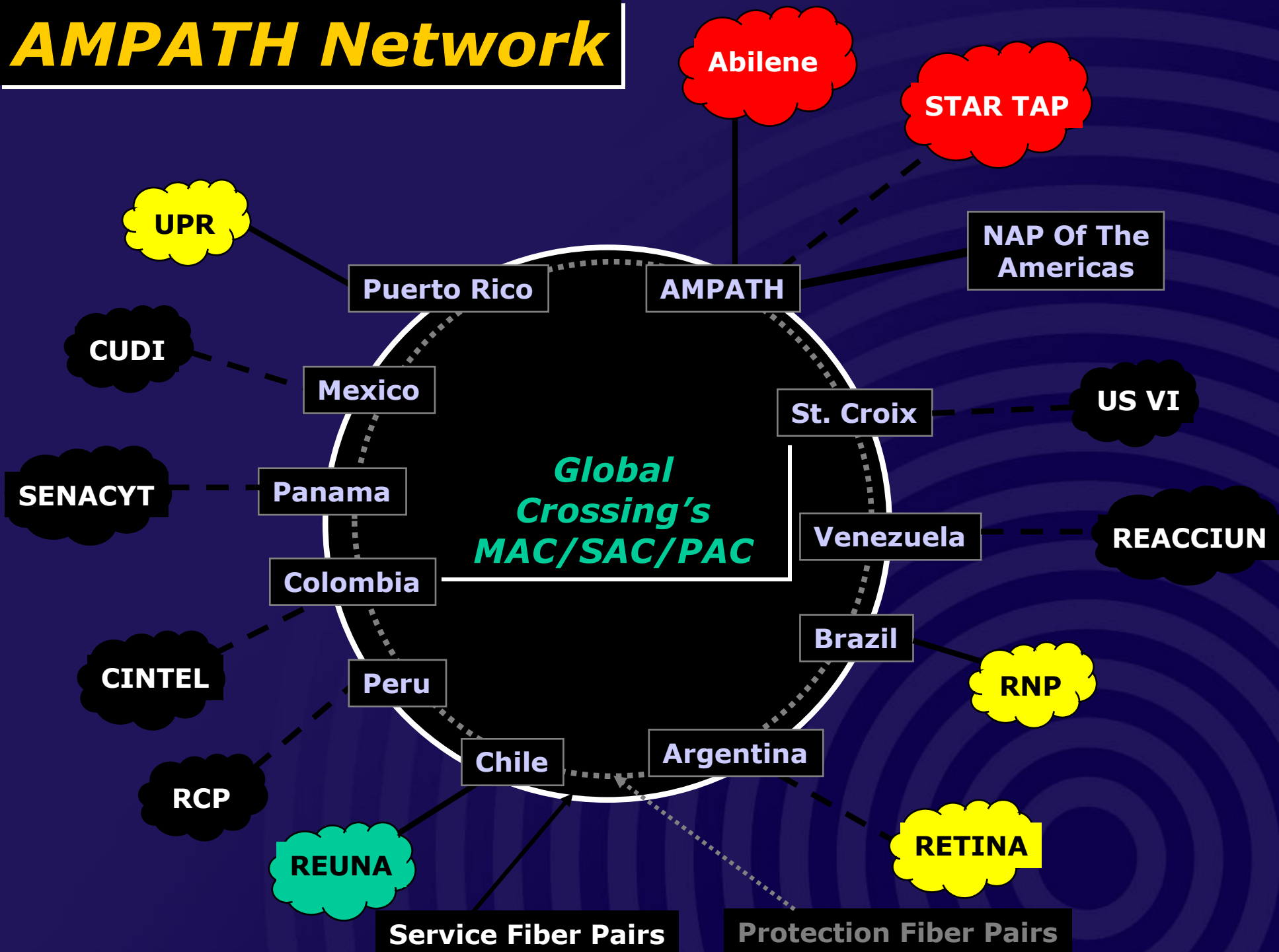
What is AMPATH?



- 10 DS3s from Global Crossing
- Cisco GSR 12012
- Lucent CBX 500 ATM switch
- Juniper M10 router
- Collocation in the NAP of the Americas
- Shared OC3 to Abilene with the South Florida GigaPOP



AMPATH Network



AMPATH Engineering Support

- FIU Network Engineers
- Global NOC



GlobalnOC Global
Research
Network
Operations
Center
at INDIANA UNIVERSITY



noc@ampath.net

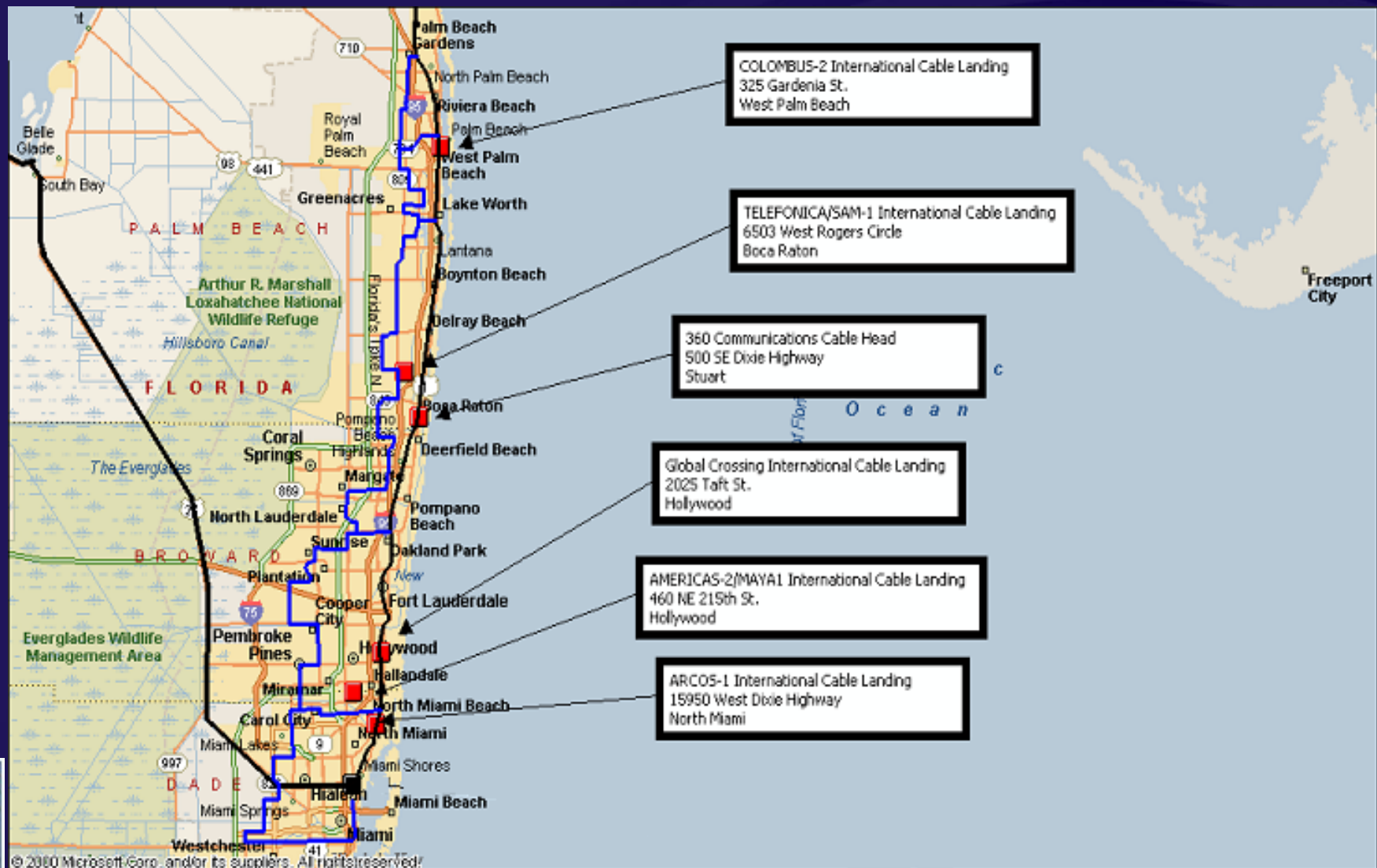
Florida International University

AMPATH



- **Fifth Tier-1 NAP**
- **Strategically located to serve Latin America, the Caribbean, Southern Europe and Africa**
- **Close to major carrier POPs and 7 worldwide undersea cable landings**

International Cable Landings



Project Time Line

Aug 2001

Connect Brazil and Puerto Rico;
Conduct workshop at FIU to identify science applications for
collaboration in AMPATH Service Area;
Participate in HPIIS metrics workshop

Sept 2001

Connect Argentina
Complete AMPATH Workshop Report

Dec 2001

Move AMPATH to NAP Of The Americas;
Connect Panama, Mexico, USVI, Colombia;
Position AMPATH for participation in the StarLight project

April 2002

Connect Peru and Venezuela
Connect remaining countries in the AMPATH Service Area

Dec 2002

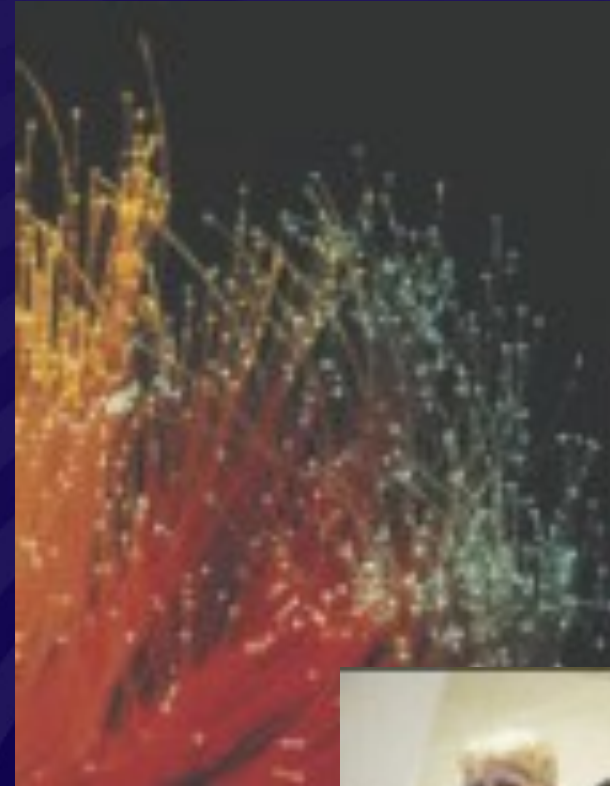
Work with Project Participants to exceed bandwidth utilization,
achieving project success



Goals



- Fully utilize the capacity of the donated DS3s:
 - Science and education applications
 - Partnerships
- Activities
 - Optical wavelengths
 - Optical routing
 - IPv6
 - Multicast
 - QoS
 - Access Grid
 - MPLS tunnels
 - Wireless to wired networks



Goals

Strengthen weak links:

- Shared OC3 to Abilene will not scale to support 10 DS3s
- Access to the US Federal Research and Education Networks



Goals

- Position AMPATH as a future lambda connect point directly linking optical networks in the AMPATH Service Area to StarLight



Activities



Developing metrics to quantify the use of HPIIS network links

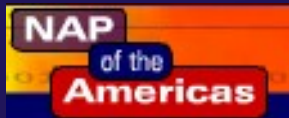


Florida International University

AMPATH

AMPATH Workshop

Thank you



www.ampath.fiu.edu

Florida International University

AMPATH