

AMPATH™
INTERNATIONAL EXCHANGE POINT IN MIAMI

**North American GLIF GOLE
Meeting (GLIF-NA)
September 16, 2007
Prague, Czech**

**Chip Cox
AMPATH
Chief Operating Officer**

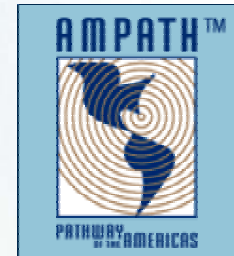
OUTLINE

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

- AMPATH International Exchange Point
- AMPATH peering fabrics and connectors
- Projects at FIU served by AMPATH
 - WHREN-LILA
 - AtlanticWave
 - Global Cyber Bridges
 - CHEPREO

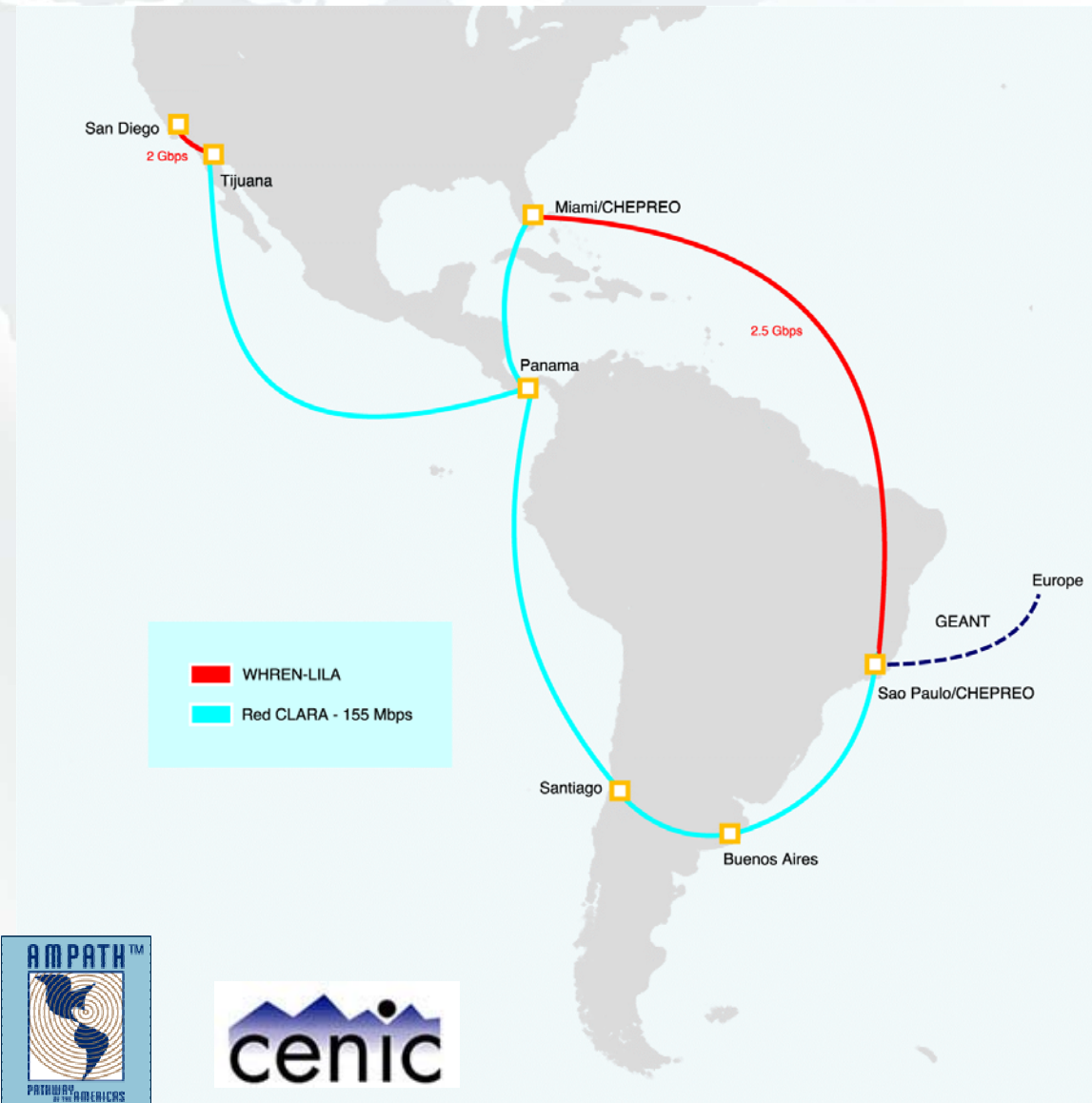
AMPATH International Exchange Point

- Connectors are U.S. and international research and education networks
- Located at the NAP of the Americas in Miami
- Ethernet and ATM peering fabrics
- Connection types are
 - 100 Mbps, 1 Gbps and 10Gbps Ethernet
 - 45 Mbps, 155 Mbps and 622 Mbps ATM
 - 155 Mbps, 622 Mbps and 2.5 Gbps SDH
- Jumbo frame support
- IPv4/IPv6
- <http://www.ampath.net> for more information



WHREN-LILA

- 2.5Gbps circuit + dark fiber segment
- U.S. landings in Miami and San Diego
- Latin America landing in Sao Paulo, Tijuana and Miami
- Interregional links improve connectivity in the Americas
- Fosters collaborative research and advance education throughout the Western Hemisphere



- A-Wave is an integral component of the NSF IRNC WHREN-LILA project
- Creates an open distributed exchange and transport service along the Atlantic rim
- 10GigE Add/Drop in Miami, with extension to Sao Paulo



Global Cyber Bridges



- NSF CI-TEAM Implementation Project, OCI-0636031
- Improve the technology training for a new generation of scientists
- Collaborators:
 - Computer Network Information Center of the Chinese Academy of Sciences, Beijing
 - City University of Hong Kong, China
 - University of Sao Paulo's School of the Future, Brazil
 - FIU in Miami, USA
- AMPATH provides Global CyberBridges fellows and faculty with connectivity to R&E computational grid resources at institutions and laboratories around the world



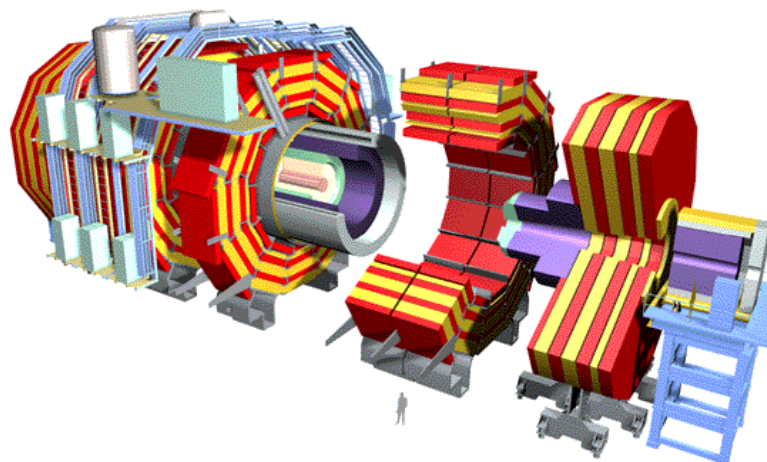
LambdaVision 100-Megapixel display and SAGE (Scalable Adaptive Graphics Environment) software developed by the Electronic Visualization Laboratory at the University of Illinois at Chicago. Major funding provided by NSF.

An International Grid Enabled Center for High Energy Physics Research & Educational Outreach at FIU



CHEPREO
CENTER FOR HIGH ENERGY
PHYSICS RESEARCH &
EDUCATION OUTREACH

<http://www.chepreo.org>



An integrated program of research, network infrastructure development, and education and outreach at one of the largest minority schools in the US

- Supports Brazil's and South America's access to Tier2s and Tier1s in the U.S. and to CERN
- Collaboration with Florida State University (FSU), the University of Florida (UF), the California Institute of Technology (Caltech)
- Leverages IRNC WHREN-LILA infrastructure to support data-intensive science from High-Energy Physics and Astronomy communities
- Collaborations with Open Science Grid, GridUNESP, Kyatera, UltraLight and others to enable data intensive science in the western hemisphere