Heidi Alvarez
Julio Ibarra

Present…

AmericasPATH to the Beacon Council February 7, 2001

FIU Florida International University
Hope, Knowledge, and Opportunity

Global Crossing™

NAP of the Americas

Cisco Systems
Empowering the Internet Generation

Lucent Technologies
Bell Labs Innovations

The AMPATH Project

- 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.
- GC's terrestrial and submarine optical-fiber networks (SAC, PAC and MAC) are used to build the AMPATH network.

Continued...

The AMPATH Project

- GC has donated up to 10 DS3s for the AMPATH project representing a $25M donation over three years.
- Cisco donated a GSR 12012 router valued at $390,400.
- Lucent donated a CBX-500 ATM switch listing for $523,000.
- Terremark and FIU have an agreement for the AMPATH POP to be located in the NAP of the Americas, operated by FIU
- FIU offers cost-effective solutions for bandwidth and operational services.
- FIU offers its commitment, leadership and expertise to the success of the project.

AMPATH Project Goals

- To enable participating countries to contribute to the research and development of applications for the advancement of Internet technologies.
- To extend the Internet2 research and education community for high-performance networking to South and Central America, the Caribbean and Mexico.

- Doctoral/Research University-Extensive.
- A member of the State University System of Florida with 32,000 students.
- One of the nation's largest doctoral-granting majority-minority universities.
  - Largest contingent of Hispanic students of any doctoral-granting university in the country.
- GigaPOP with UM and FAU.

AMPATH & Technology Transfer

- AMPATH's Industrial Affiliates Program (IAP) provides scholarships to facilitate the transfer of acquired knowledge & technologies to the commercial sector
- Areas of study include:
  - *Wireless professional services*
  - *Management of advanced networks*
  - *Enterprise network design and system integration*
  - *Intranet & Extranet*
  - *Middleware components for wireless data access*

AMPATH Service Area

- Argentina
- Brazil
- Chile
- Colombia
- Costa Rica
- Mexico
- Panama
- Peru
- Puerto Rico
- US Virgin Islands
- Venezuela

Global Crossing

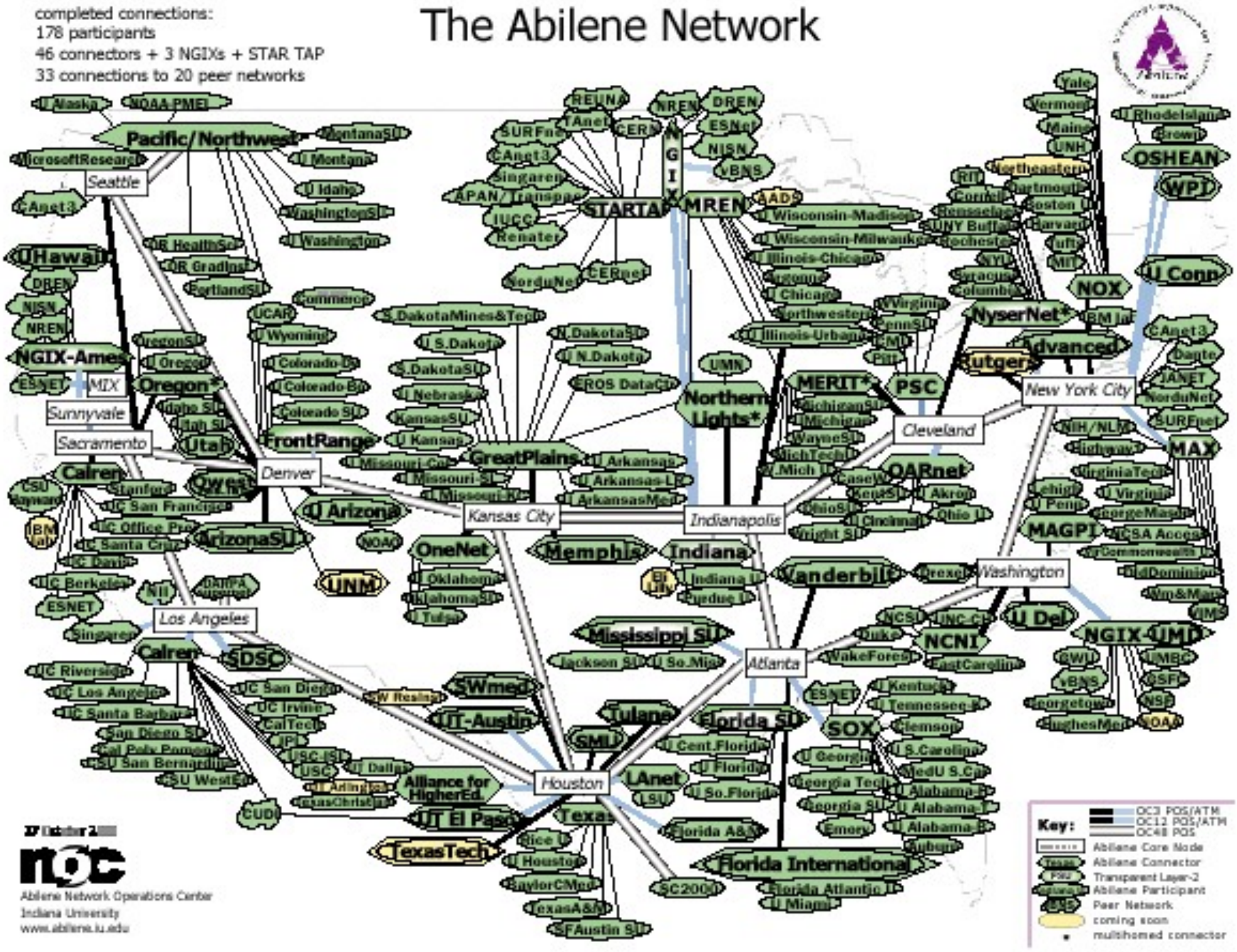
- GC is a world-class telecommunications service provider and a carrier's carrier.
- GC is building and offering services over the world's first global fiber-optic network with over 101,000 route miles, serving five continents, 27 countries and more than 200 major cities.

Continued…

US CROSSING
AC-1
AC-2
PEC
GAL
PC-1
AC-1
MAC
PAC
EAC
SAC
The Global Crossing Network

The Abilene Network

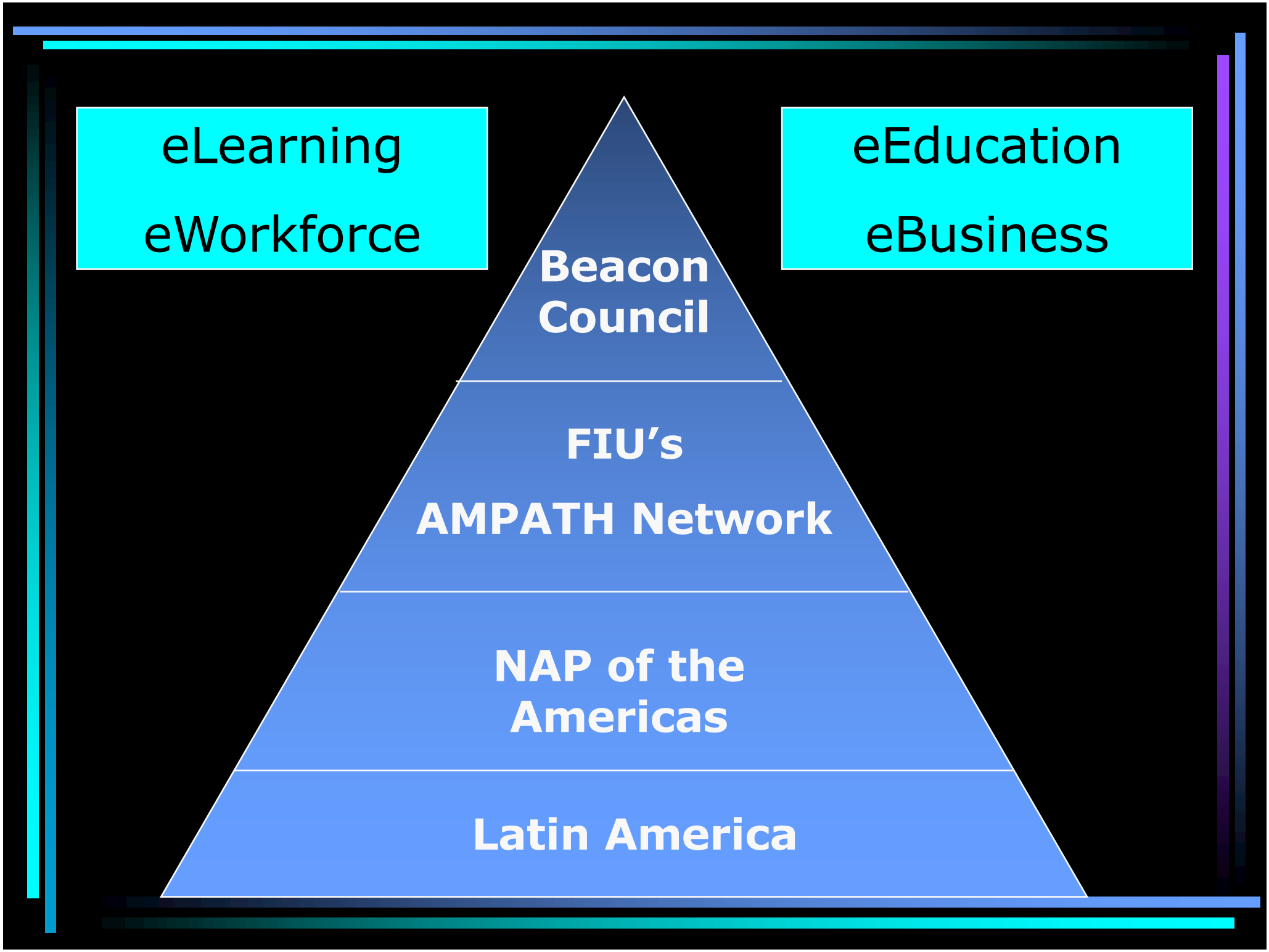
completed connections:
178 participants
46 connectors + 3 NGIXs + STAR TAP
33 connections to 20 peer networks



Abilene Network Operations Center
Indiana University
www.abilene.iu.edu

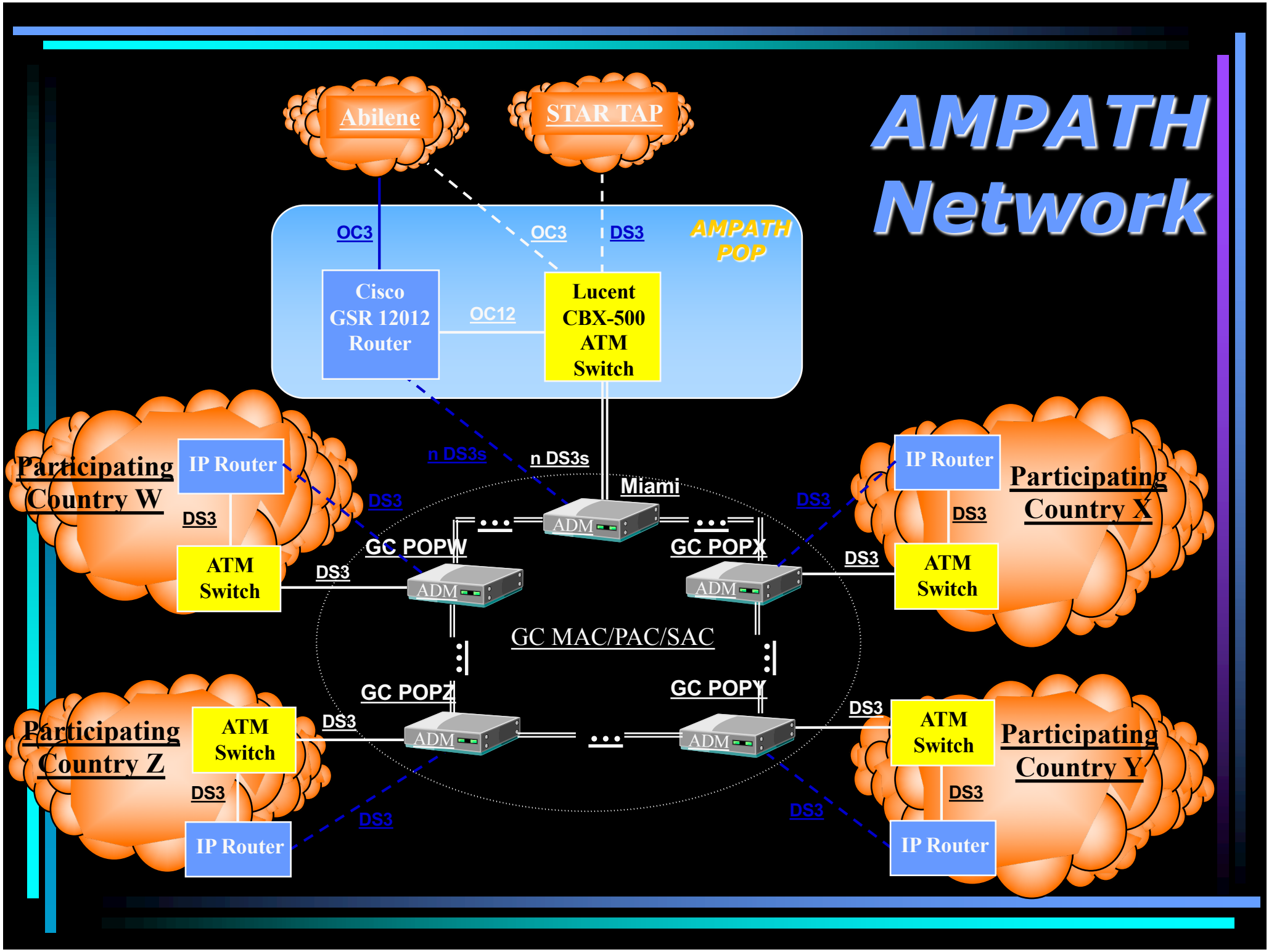
The Beacon Council & AMPATH

- Information Technology (IT) is one of the world's major industrial activities
- The Internet has expanded IT activities and infrastructure.
- The Beacon Council has made a commitment to "promote and expand the Information Technology industry in South Florida," in cooperation with the InternetCoast.
- AMPATH, with its Point-of-Presence in Miami's NAP of the Americas, is the Research and Education advanced Internet portal to Latin America
- The Beacon Council with a "bullet proof source of funding," is in a position to be an effective stakeholder in AMPATH


eLearning
eWorkforce
eEducation
eBusiness
Beacon Council
FIU's
AMPATH Network
NAP of the Americas
Latin America

AmericasPATH

Thank You !


AMPATH Network
Abilene
STAR TAP
OC3
OC3
DS3
AMPATH POP
Cisco GSR 12012 Router
OC12
Lucent CBX-500 ATM Switch
Participating Country W
IP Router
DS3
ATM Switch
DS3
n DS3s
n DS3s
Miami
ADM
GC POPW
GC POPX
ADM
ADM
GC MAC/PAC/SAC
GC POPZ
GC POPY
ADM
ADM
Participating Country Z
ATM Switch
DS3
IP Router
DS3
DS3
DS3
DS3
DS3
IP Router
DS3
ATM Switch
Participating Country X
DS3
ATM Switch
Participating Country Y
DS3
IP Router