

The background of the slide is a dark blue color with a faint, glowing network of white lines that resemble a globe or a complex network structure. The lines are interconnected and form a grid-like pattern across the entire slide.

LARGE SCALE IMPLEMENTATION OF AN ADVANCED NETWORK INFRASTRUCTURE IN COSTA RICA

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Ministry of Science and Technology, Micit**

**FIU AMPATH Workshop
August 15-17, 2001**

Past...

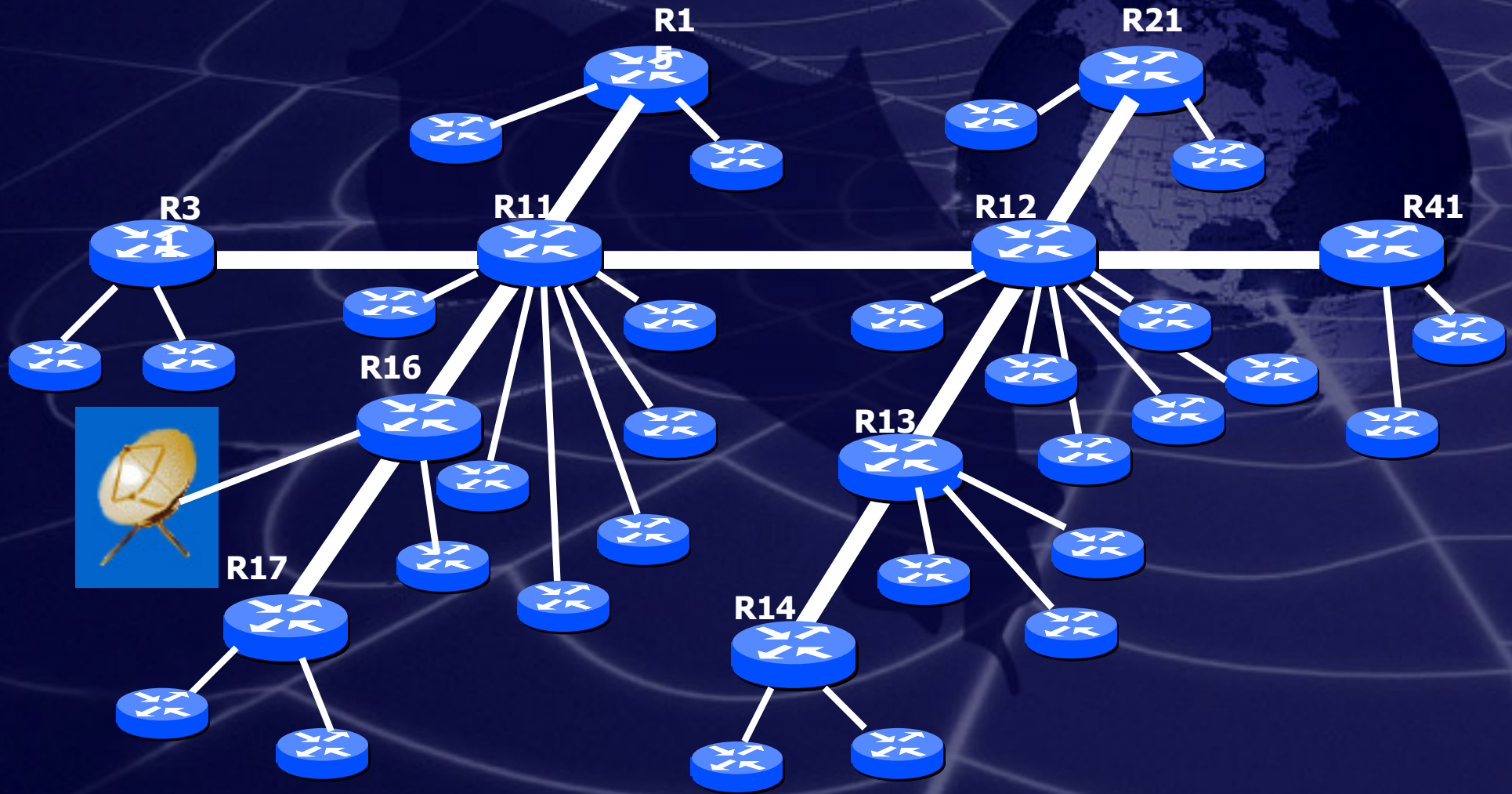


**University of Costa Rica, UCR
National Research Network, CRNet
RedHUCyT, OAS and NSF**

National Research Network, CRNet

29 Academic institutions

18 Government institutions



Backbone CRNet, 1997

UNIVERSIDAD DE COSTA RICA



Present ...

**Advanced Internet Initiative
Advanced Research Network
(using same backbone infrastructure)**



Project characteristics

- ④ **High capacity**
- ④ **High bandwidth dedicated connectivity to end user**
- ④ **Low costs**
- ④ **Security and reliability**
- ④ **Scalability and flexibility**
- ④ **Compatibility with existing platforms**
- ④ **Network architecture designed to migrate towards future technologies**

Government
Health

Education

Industry
Commerce
Tourism

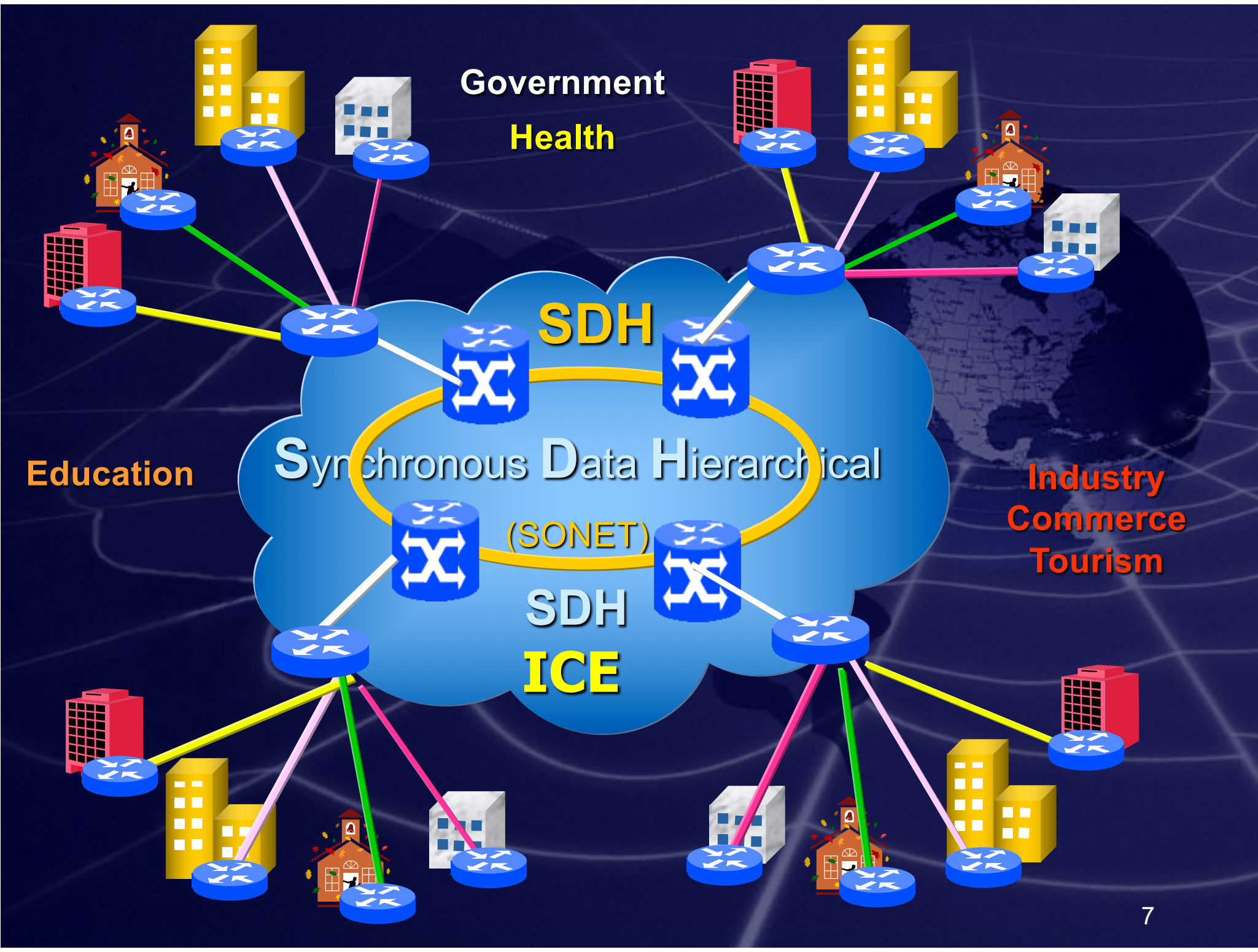
SDH

Synchronous Data Hierarchical

(SONET)

SDH

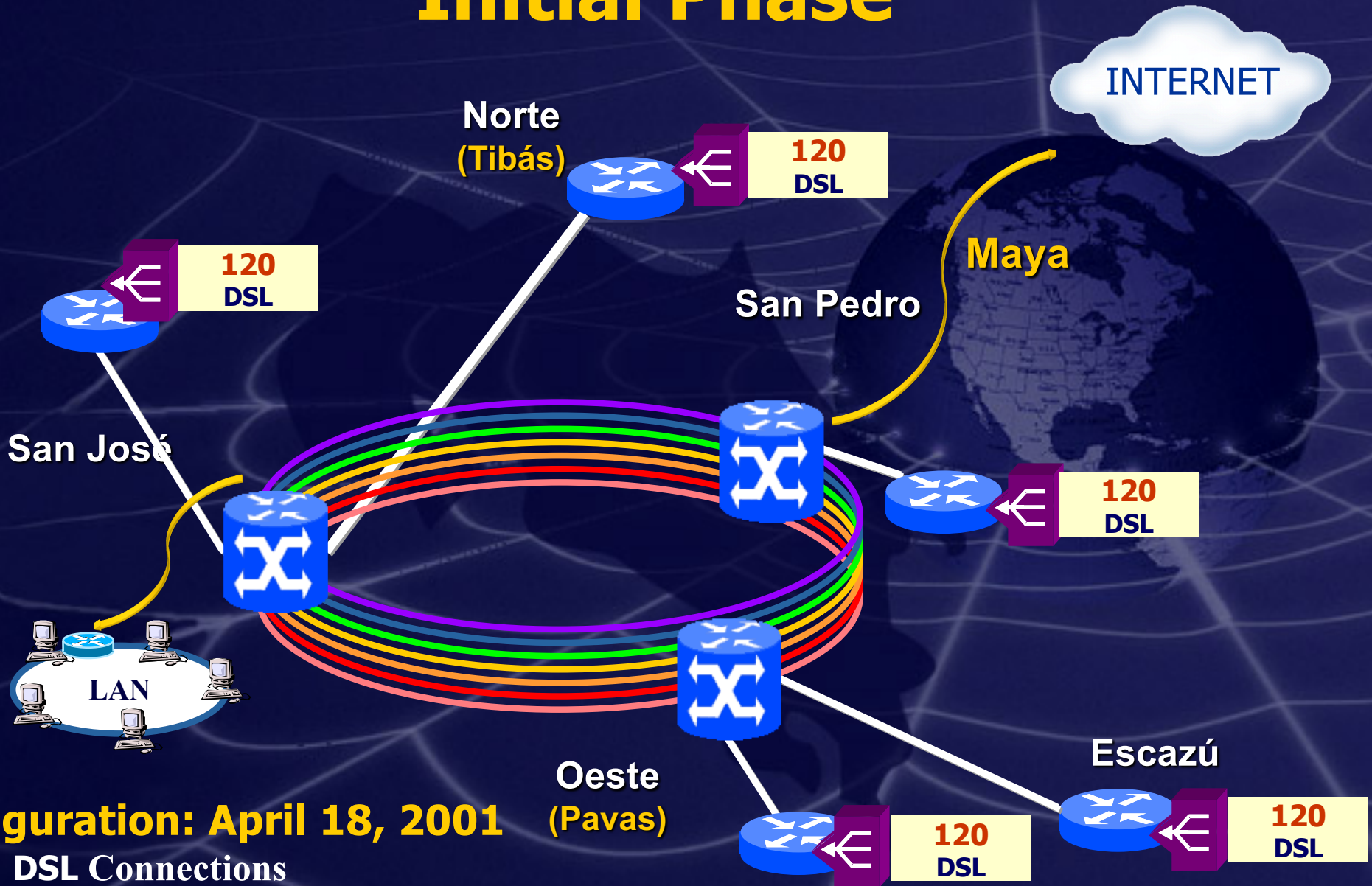
ICE



Network reach

ISDN
Wireless

Initial Phase



Inauguration: April 18, 2001

- 700 DSL Connections





MAYA 1

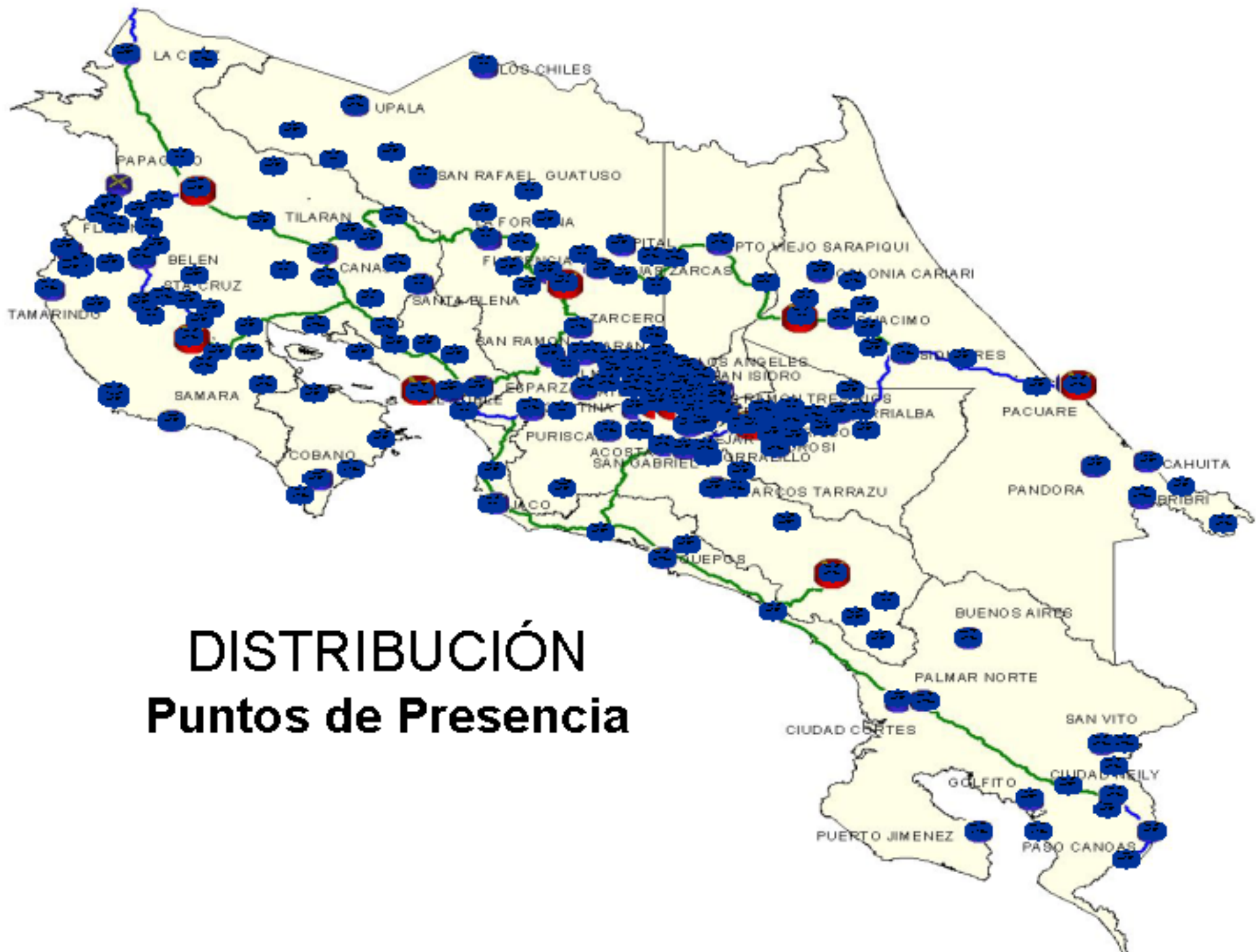


Second Phase

24 Gigarouters Core Network PoPs

240 Megarouters Access Layer PoPs

100,000 DSL Connections



ARCOS 1



Broadband connections

100.000 DSL 2.5 %
10.000 Cable Modem? 0.25%

TOTAL 2.75 %

It's speedier in Seoul

Broadband connections per 100 inhabitants
January 2001



Source: OECD

Towards Internet 2 ...



National Science Foundation Advanced
Network Infrastructure (ANI)
vBNS Project



University Corporation for Advanced
Internet Development (UCAID)
Abiline Project

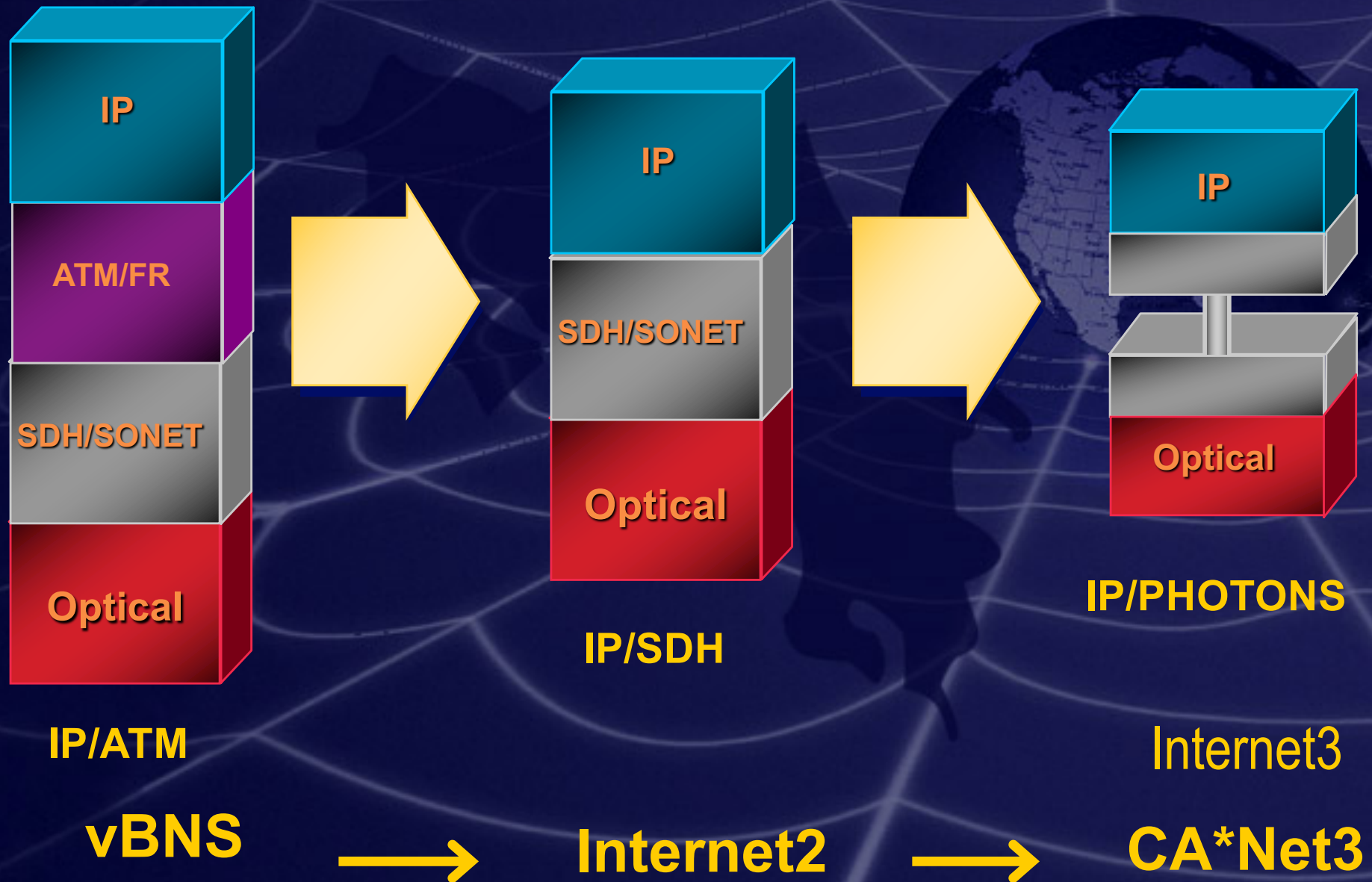


Global Crossing
PAC: Pan-American Crossing
SAC: South American Crossing
MAC: Mid-Atlantic Crossing ...

Global Crossing



Technological evolution ...





Thank you