

Internet technology research with International collaboration

MA Yan, BUPT
APRICOT'2005
Kyoto

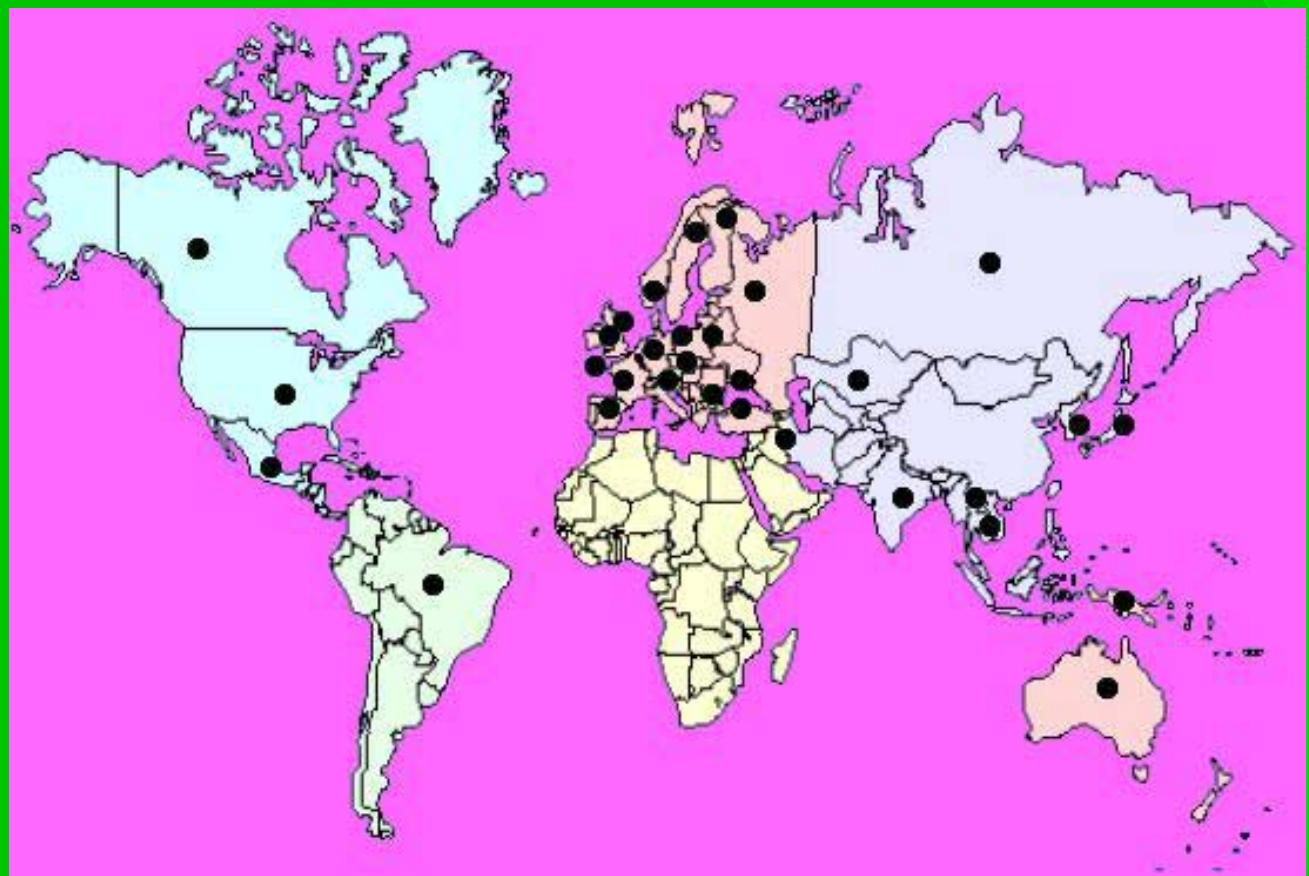
Topics

- The international collaboration on Internet technology
- Support from Ministry of Science and Technology
- Support from Natural Science Foundation for basic research
- In CERNET/CERNET2 context
- The future

Worldwide cooperation

NSFC

*Signed 60
Cooperative
Agreements
with
Institutions
in 35
Countries
and Regions*



Supported Area by the Department of Information Science, NSFC

Acquisition , Storage, Transmission, Procession, Utilization

Next Generation Wireless Communication

- Multimedia Communication
- Communication Systems Integration and modeling
- Broadband Access Technologies
- Communication Quality and Reliability
- Wireless and Mobile Networking and Computing
- Signal & Image Processing

Supporting Area of Information and Communication

Internet II and Network

- Architecture Modeling and Simulation
- Internetworking Protocols and Performance
- Parallel and Distributed Computing
- Real-Time and Multimedia Systems

Supporting Area of Information and Communication

Internet II and Network— (Continued)

- **Information Infrastructure Interconnect in High Speed Digital System**
- **Network and information security**
- **Network traffic studies and QoS**
- **E-Science, Grid Computing, Sensor Network**

Chinese-European Networking Symposium on Research Networks, Advanced Networks and Broadband Solutions



Chinese-European cooperation
on Information and Communications Technologies

Mário Campolargo
Head of Unit

DG INFSO F3 Research Infrastructure
Shanghai 9-10 December 2004

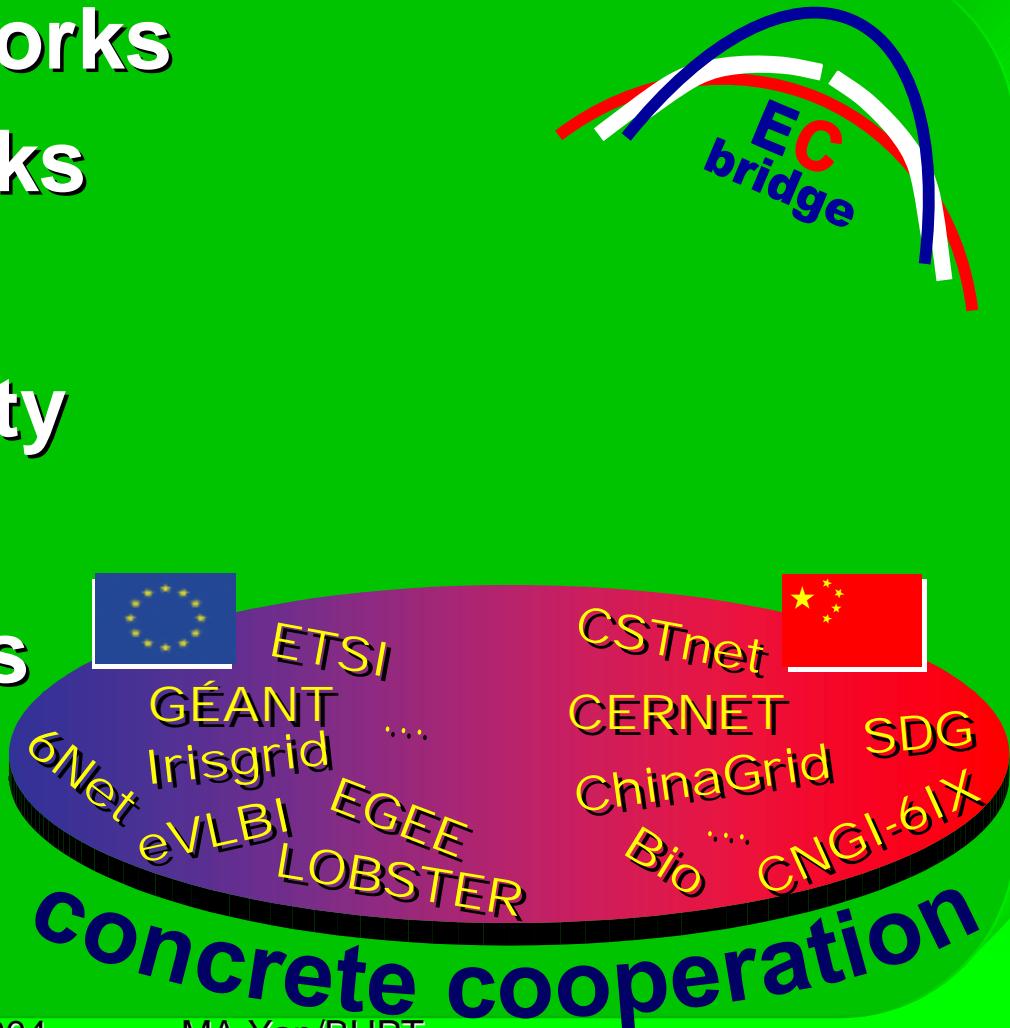


EU-China cooperation framework

- Joint Declaration (1997)
- A Memorandum of Understanding (1998) signed by:
 - *Sir Leon Brittan, Vice-President of the European Commission*
 - *Mr. Liu Shanzai, Executive Vice-Minister of MOFTEC*
- The Science & Technology Co-operation Agreement (1999)
- A Joint Declaration (2002) signed by:
 - *Prof. Xu Guanghua, Minister of Science & Technology*
 - *Mr. Erkki Liikanen, European Commissioner for Information Society & Enterprise*

Workshop on Advanced Networks

- Research Networks
- Access Networks
- IPv6
- Network security
- Middleware
- eInfrastructures
- Applications



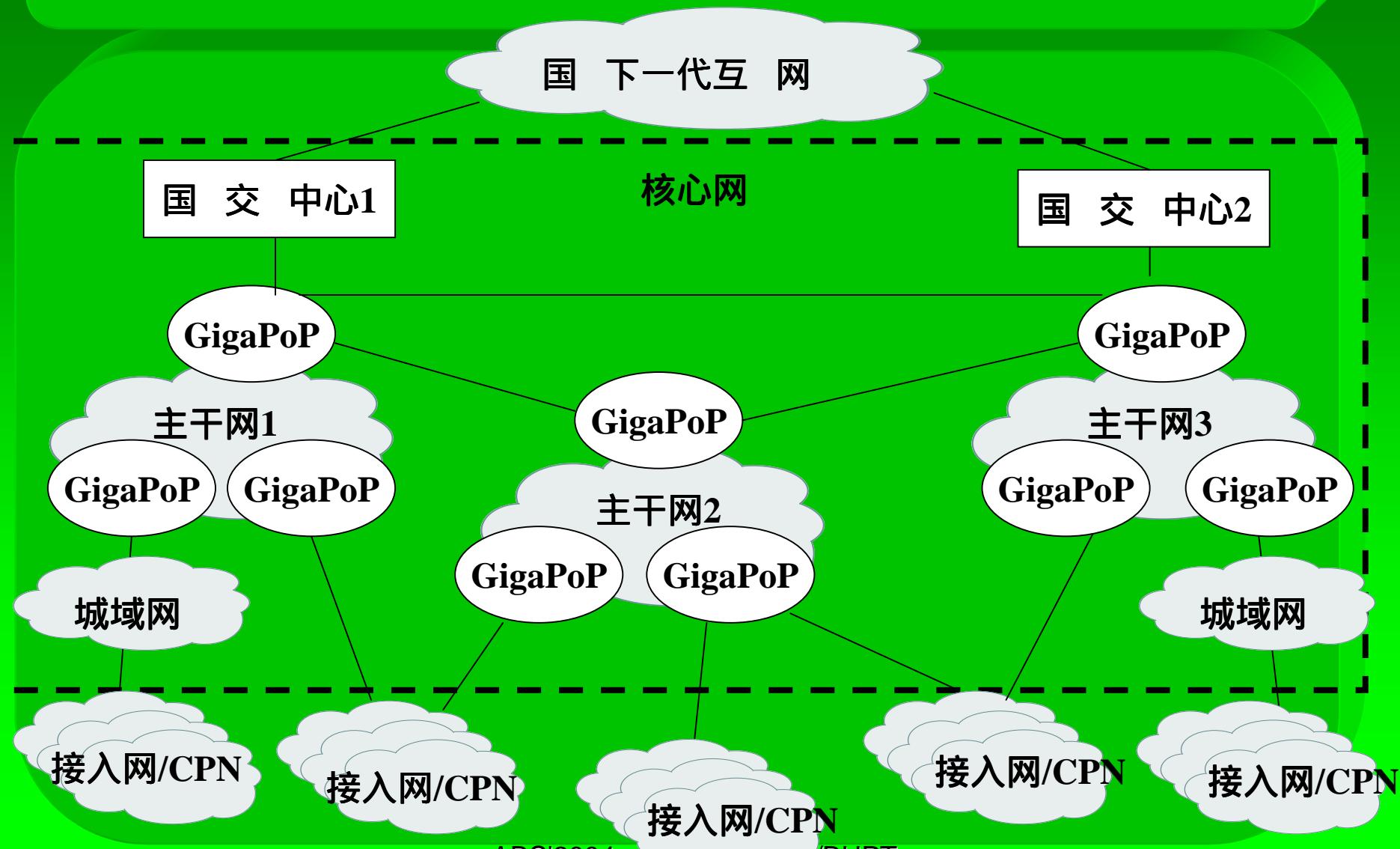
In Asia area

- CJ-IPv6
- CK-Internet traffic monitoring
- APAN

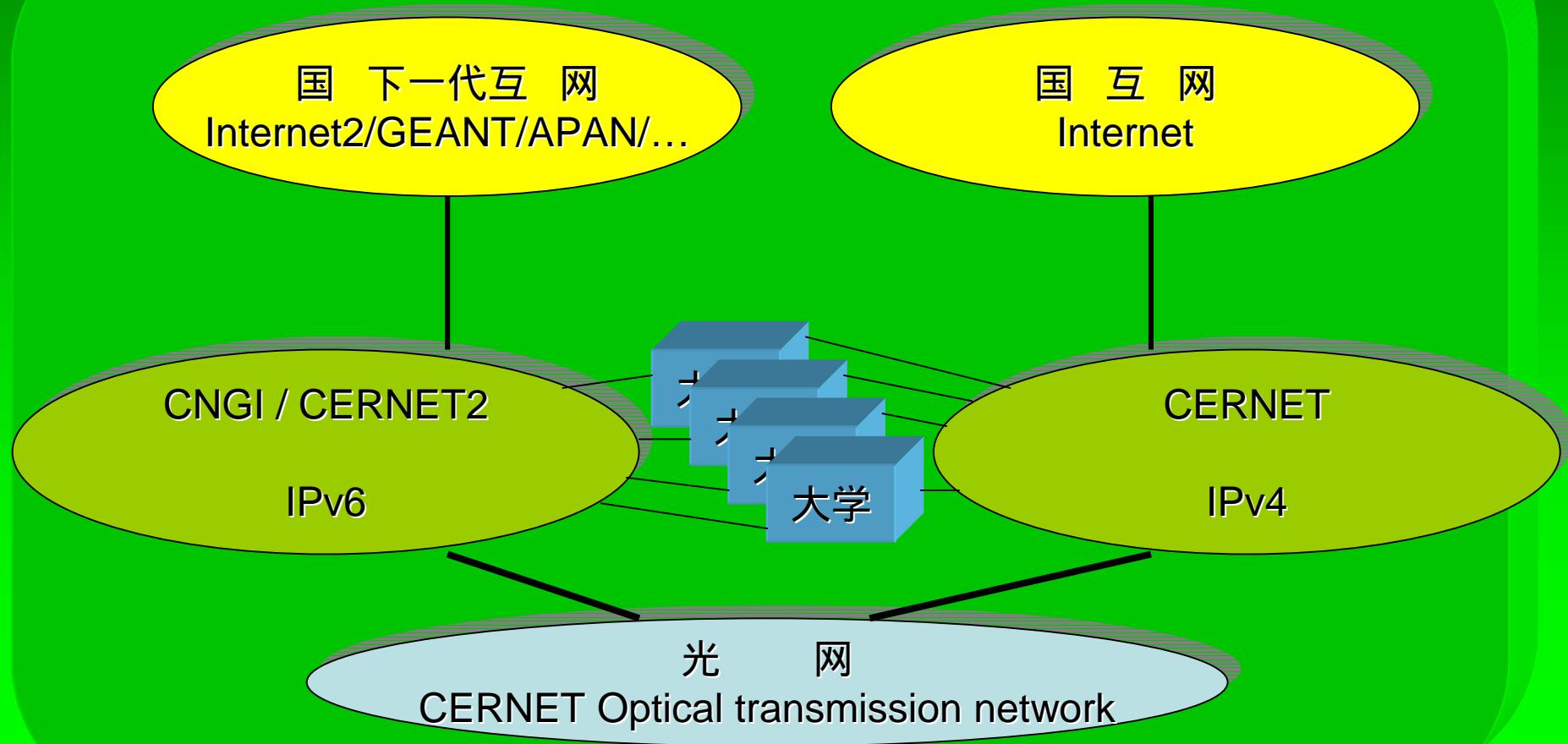
Grand opening of CNGI/CERNET2 in Dec.2004



CNGI project



CERNET and CERNET2



The joint launch of IPv6 service, 2004



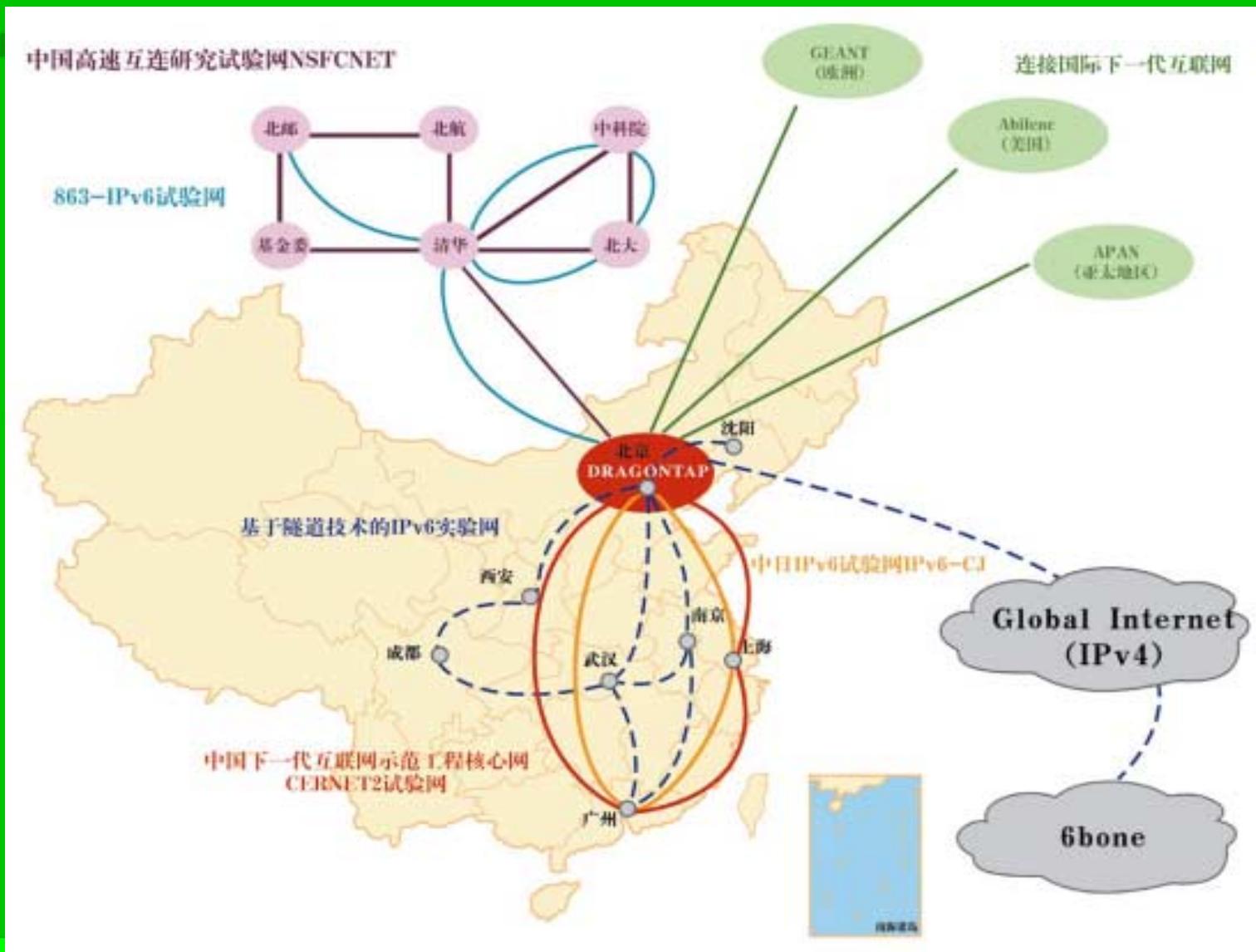
Global IPv6 Service Launch Event

ABS'2004

MA Yan/BUPT

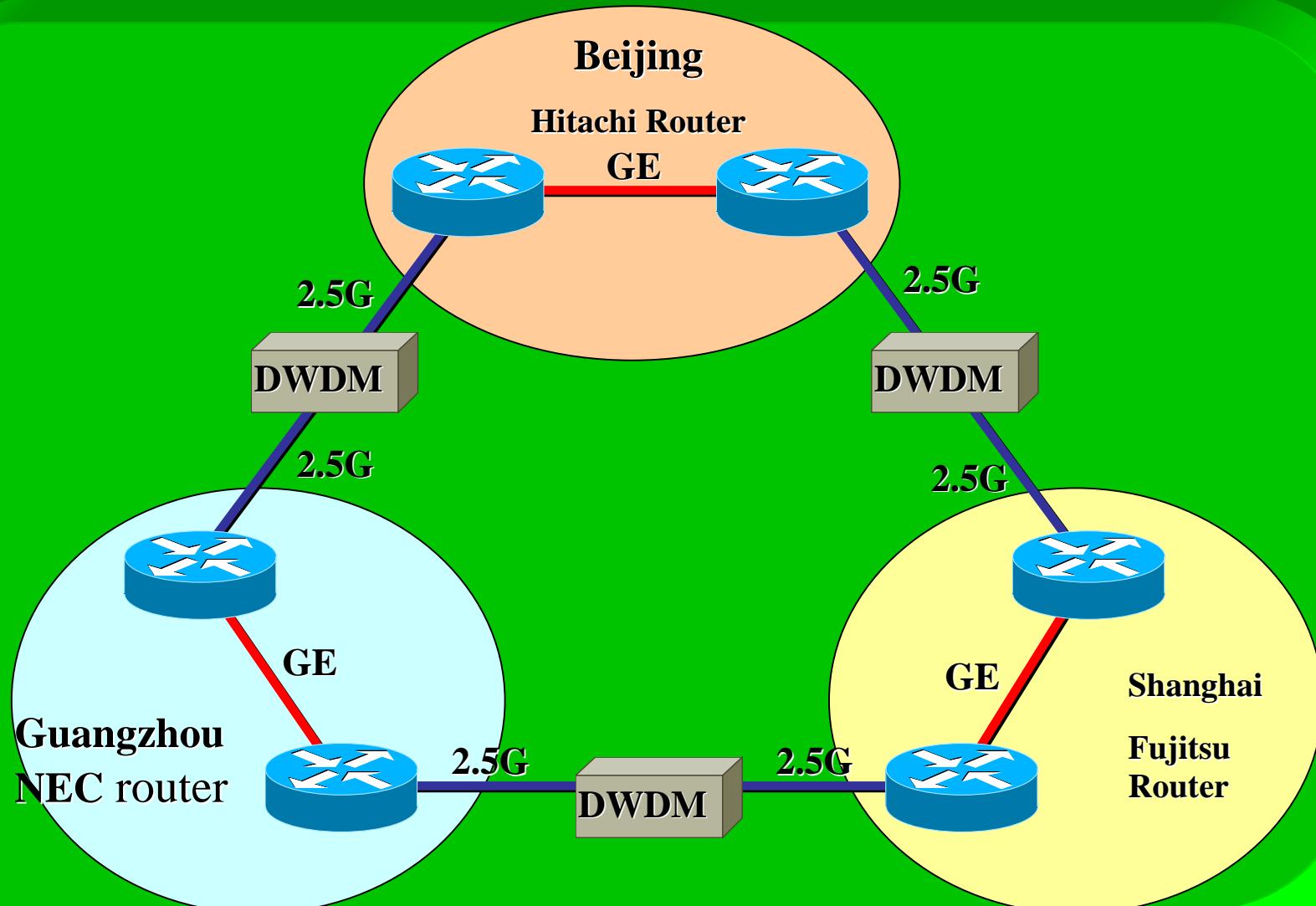
January 15 2004

NGI and IPv6 in China



China-Japan IPv6 cooperation on Next Generation Network Test-bed project

中日IPv6合作 目 网

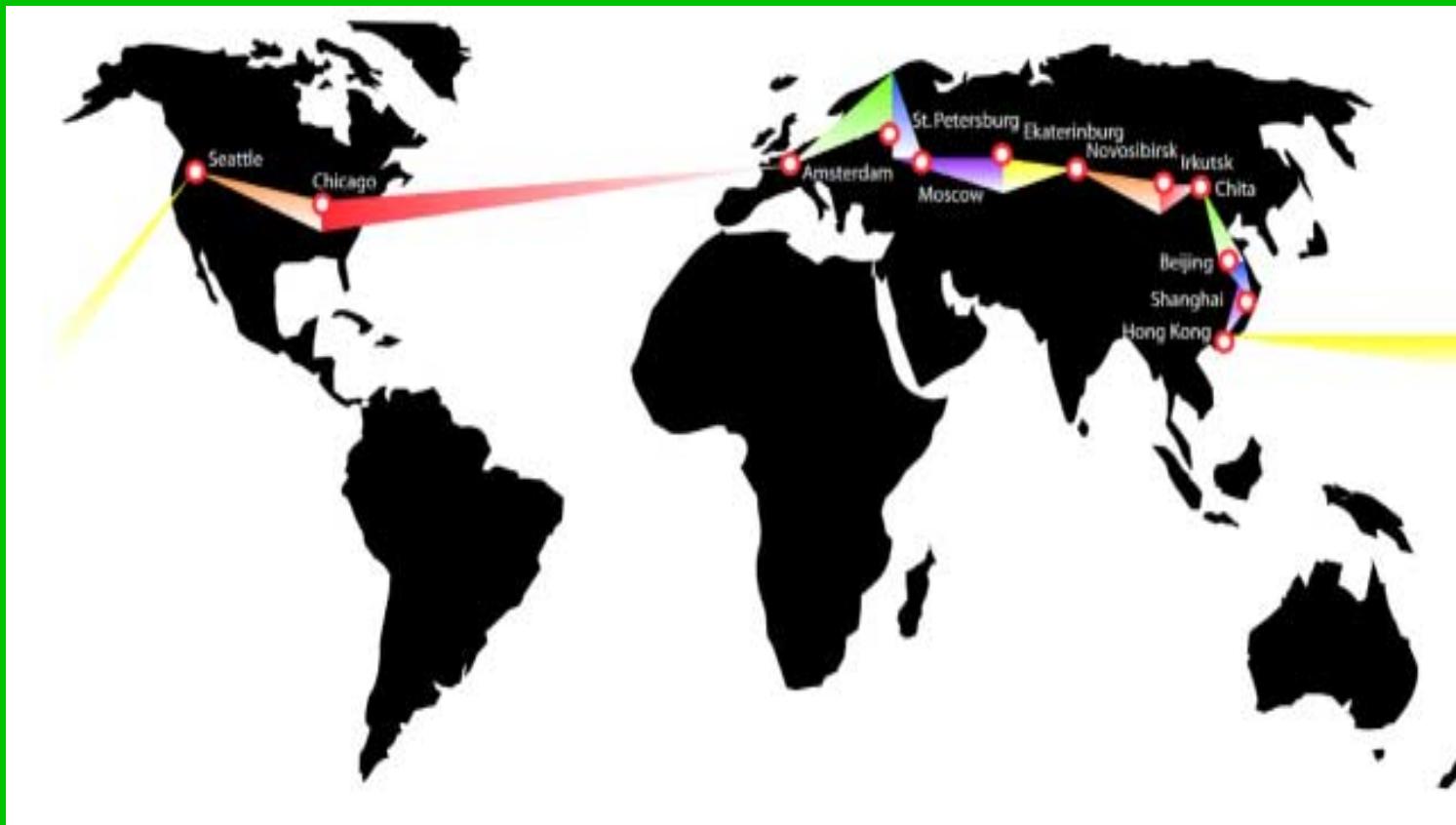


地学和天文学国 超 基 服

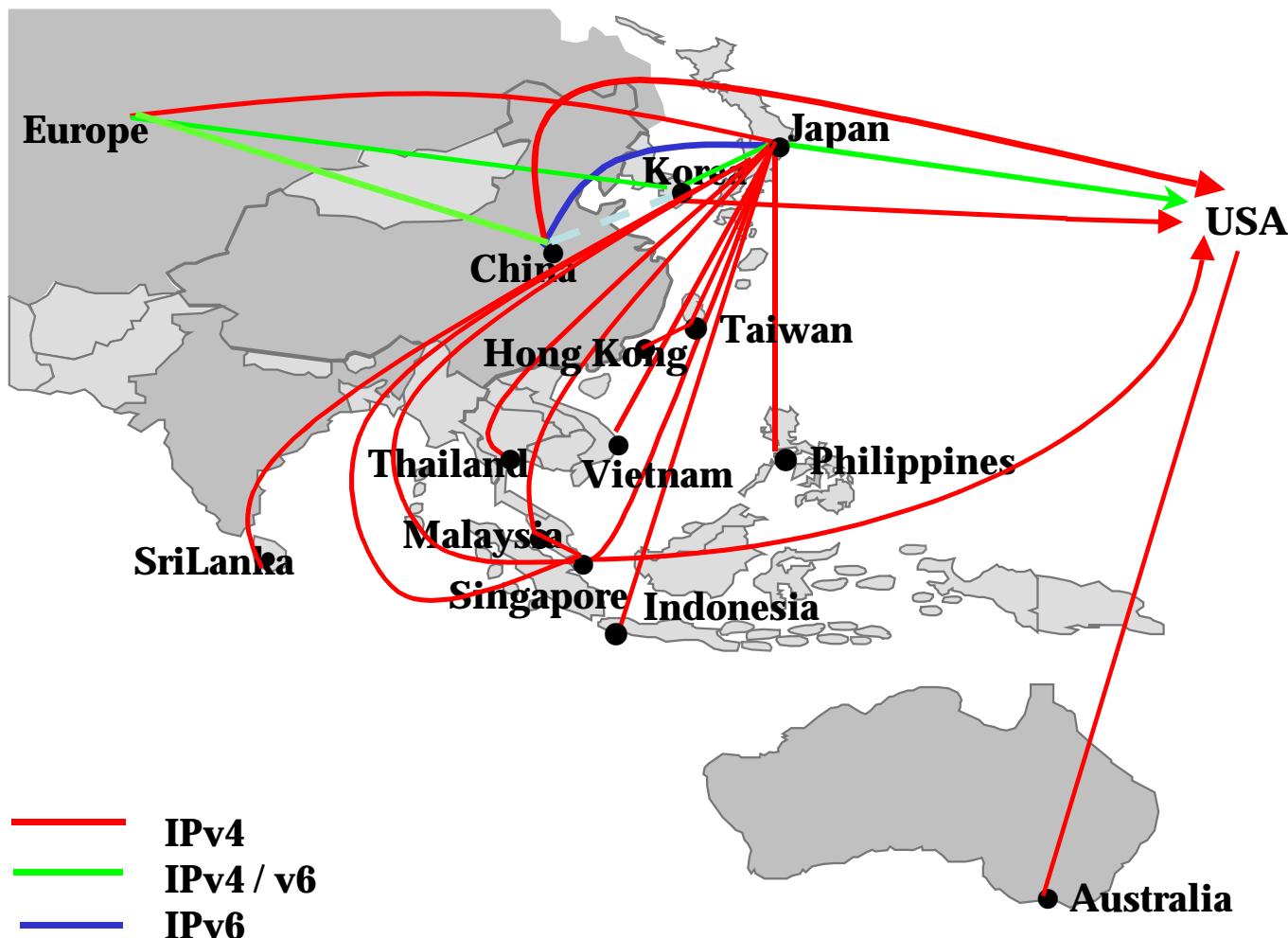
International VLBI Service for Geodesy and Astrometry (IVS)



GLORIAD



APAN and APAN-6IX



APAN Observatory

- **Internet2 backbone Abilene Collocation Research Projects:**
 - [PlanetLab](#)
 - [The AMP Project](#)
 - [Passive Measurement and Analysis](#)
- Joint project on APAN Observatory start on 2005
 - John Hicks, TransPAC2/Indiana University
 - Takatoshi Ikeda, KDDI Labs, APAN-JP
 - Chris Myers, Grangenet
 - Kazanori Konishi, APAN-JP
 - Matt Zekauskas, Internet2/Abilene
 - Andy Gernain, NASA
 - Yan Ma, BUPT/CERNET
 - Xing LI, CERNET
 - Bruce Morgan, AARNET
 - Yoshitaka Hattori, KDDI/APAN-JP
 - Ronn Ritke, MNA/SDSC/UCSD
 - Yu-lin Chang, Academica Sinica

In Dec. 2004

PlanetLab Home - Microsoft Internet Explorer

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An open platform for developing, deploying, and accessing planetary-scale services

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Current distribution of 508 nodes over 235 sites

Announcements

December 21 2004

CERNET joins PlanetLab

Fifty machines at 25 sites on CERNET (Chinese Research and Education Network) have come online, bringing the total number of PlanetLab nodes above the 500 mark.

The future

- Internet is powerful
- It is a tool for collaboration
- It is a platform for collaboration
- It is the future

THANKS !