



CNNIC UPDATE

30th APNIC, Gold Coast, Australia
Aug,2010

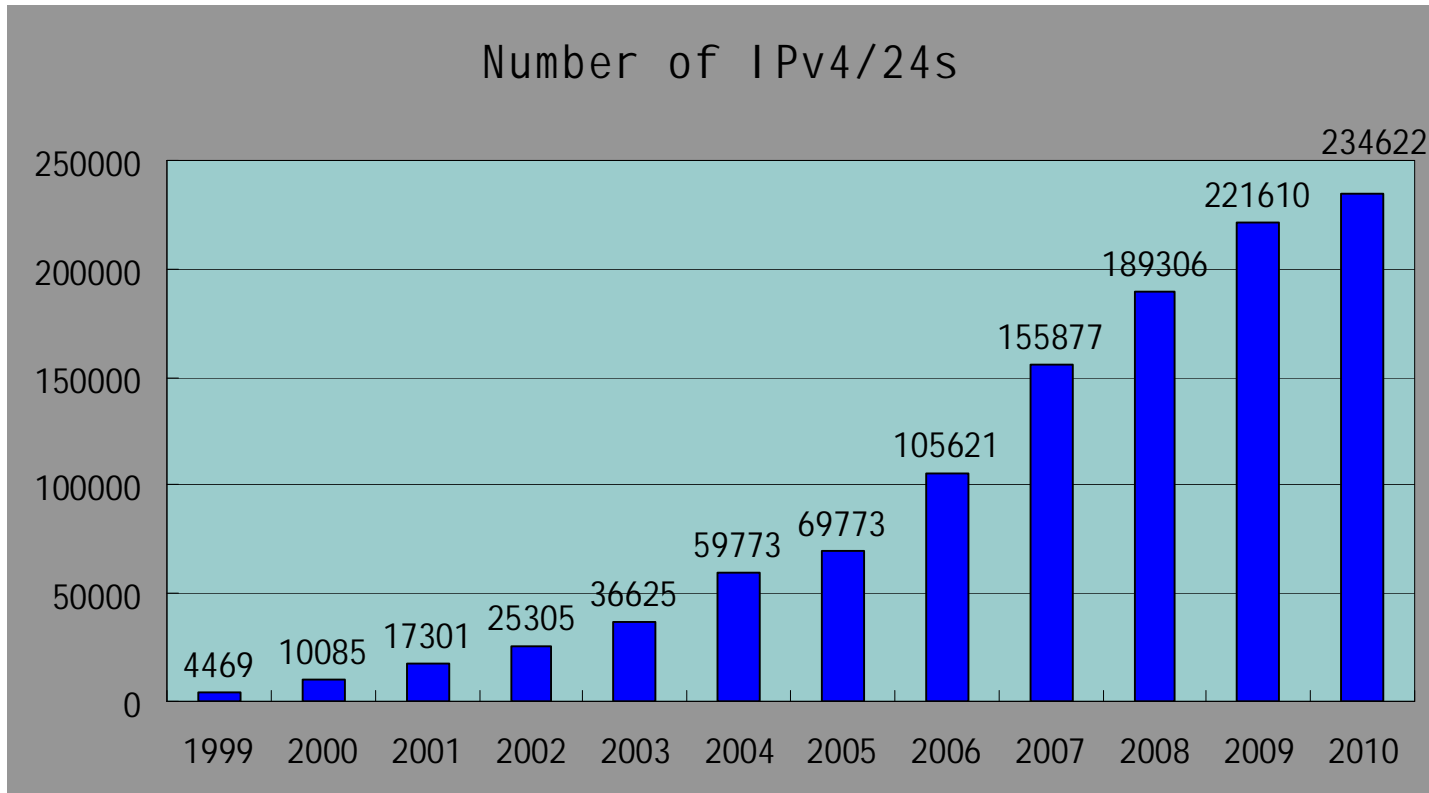


- Ø Membership & Address Allocation Status
- Ø IPv6 Promotion
- Ø OPM in 2010
- Ø Plan in 2010

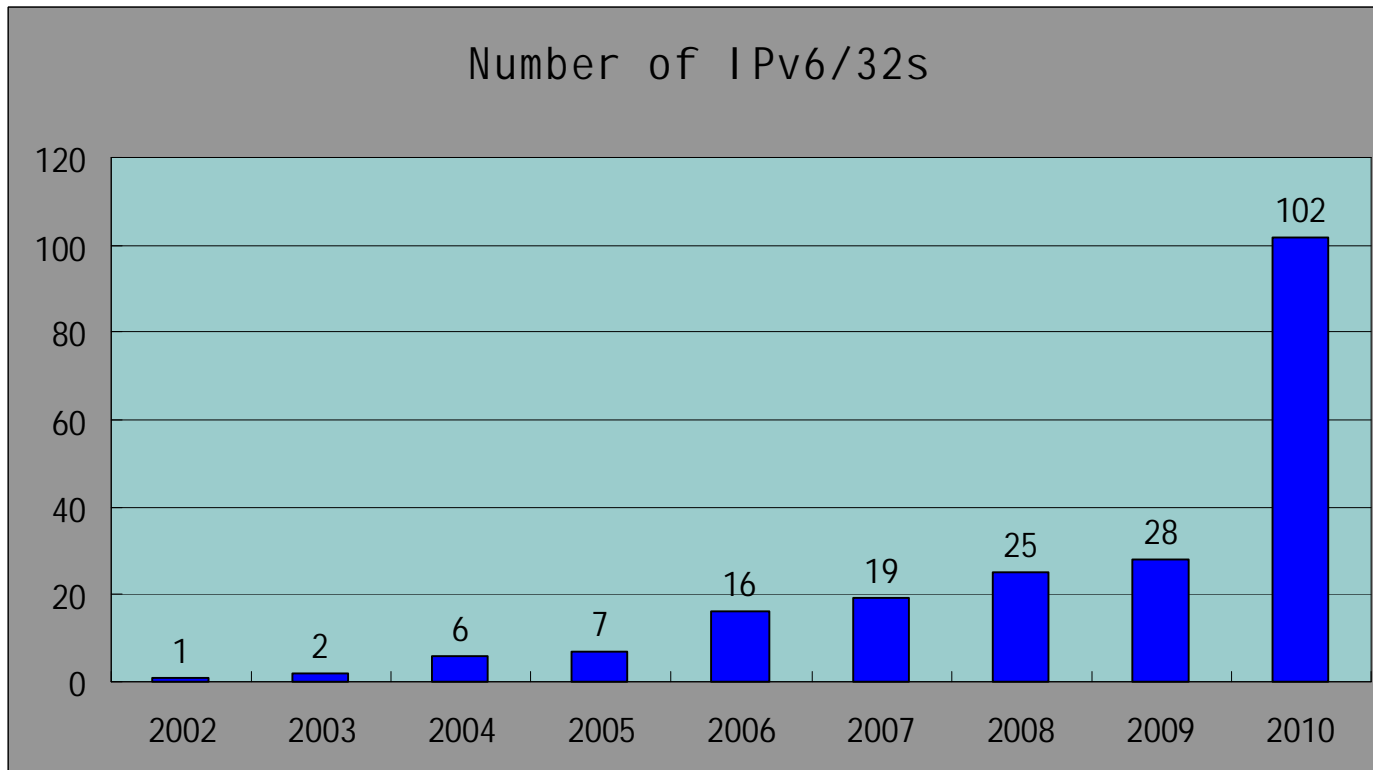
Membership & Address Allocation Status

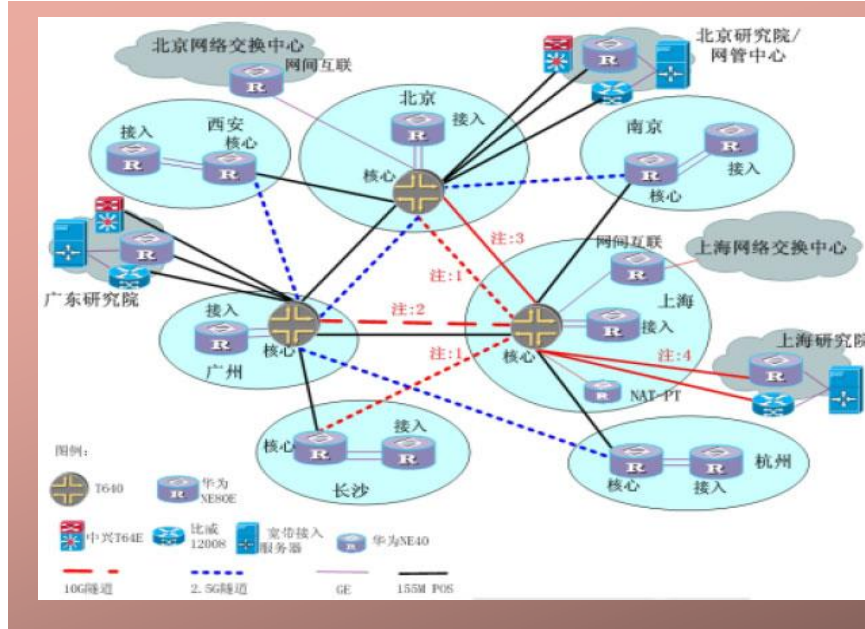
- | Members: 276 (end of July)
- | IPv4 Allocation : 234622*/24s
- | IPv6 Allocation : 102*/32s
- | ASNs : 274(2-byte)
10(4-byte)

1 CNNIC holds 234622*/24s (end of July)



- | CNNIC holds 102*/32s (end of July)
 - | still increasing





nThe trial network platform consists of backbone network, network administration center, IXP and 7 MAN networks

nTrial applications including business gateway, business platform and P2P on the trial platform

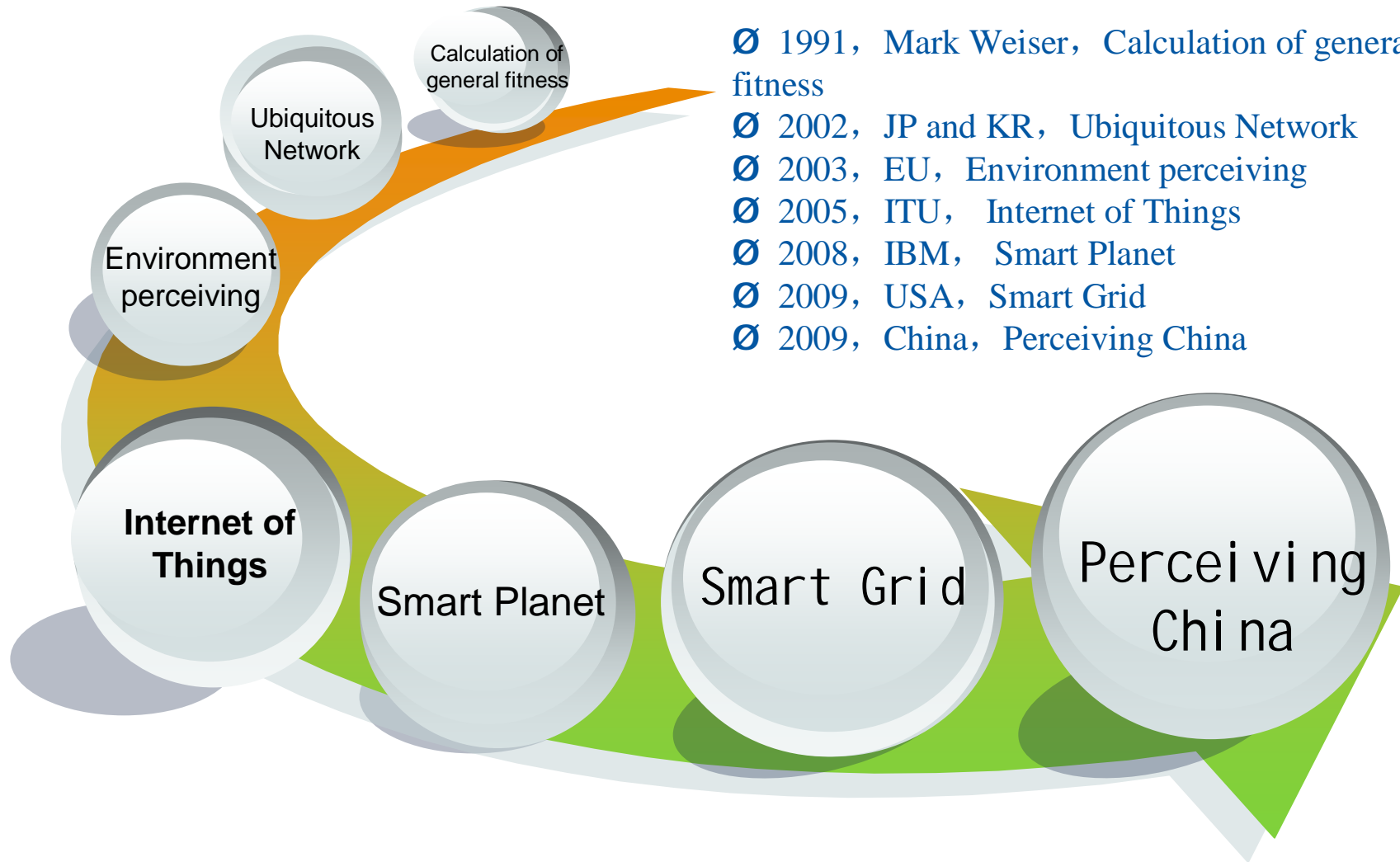
Problems:

- nLack of consideration on the transition of network, business platform and EU
- nLack of guidance to the IPv6 business and supporting system
- nLack of industry value because the scale is still small
- nLack of the participation of the actual operators, especially the ICPs

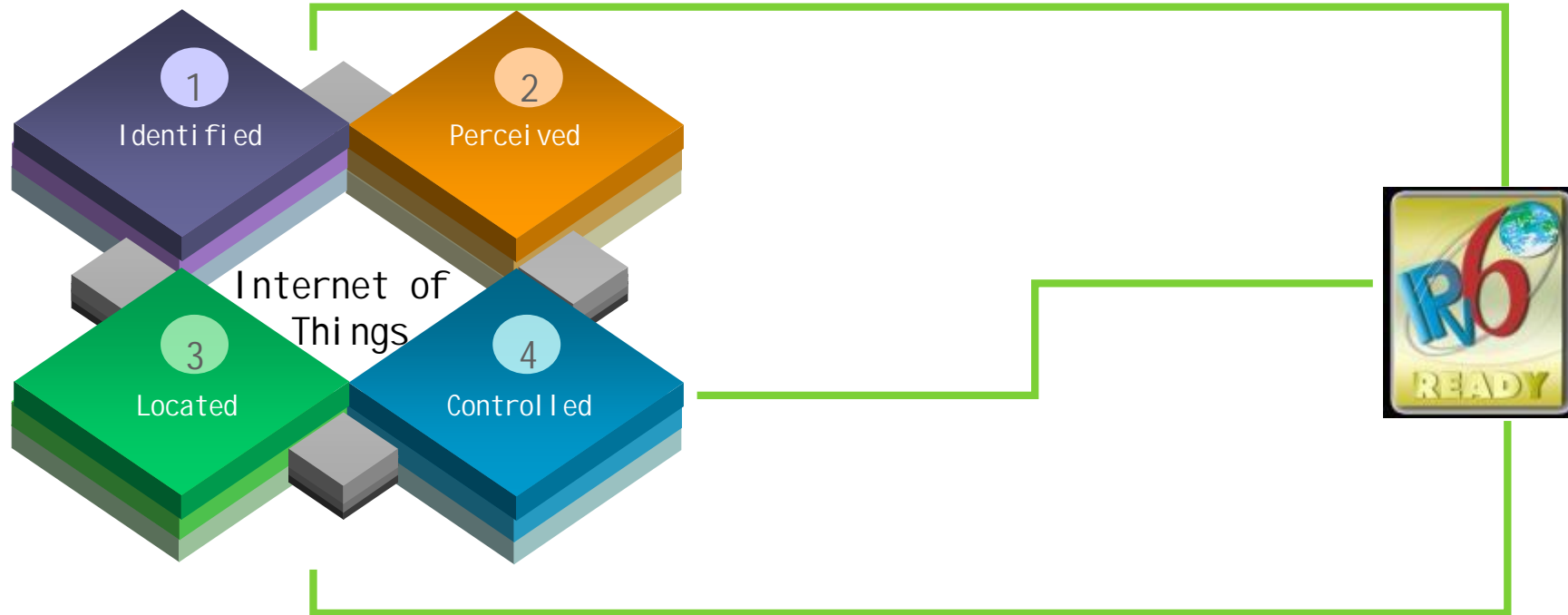
- | Held 3GPP and IETF IPv6 co-summit in 2009
 - | Establish IPv6 study item
 - | In Software workshop, made a proposal on DS-life, 6rd
 - | In Behave workshop, made a proposal on PNAT, NAT64

- | New business operation in 2009
 - | Scale test in the lab of carrying network equipment
 - | IPv6 mobility tech test
 - | Provide HDTV service on IPv6
 - | Improve the work on the IPv6 standards for mobile terminal
 - | Raise PNAT as IPv6 transition tech

The Internet of Things in China



The Internet of Things



Can be identified: by assigning certain tag onto things (eg. Ip address)

Can be perceived: attribute of the things and their environment

Can be located: by investigating the info collected by the tag

Can be Controlled: by analyzing and calculating the locating info

- | The Internet of Things needs huge amount of IP addresses
- | The Internet of Things needs the IP address supporting mobility
- | The Internet of Things needs the IP address supporting security

IPv6 is the one it needs!



中国互联网络信息中心
CHINA INTERNET NETWORK INFORMATION CENTER

IPv6 Promotion by CNNIC

- | Allocated 73 /32s since APNIC IPv6 Promotion
 - | Encouraging members trial on IPv6 connection
 - | Providing IPv6 assignment guidance

- | IPv6 Training on OPM
 - | IPv6 assignment and deployment guidance

- | Established IPv6 DNS System
 - | Provide IPv6 service addresses for .CN TLD
 - | Set up exemplary IPv6-enabled DNS services nodes under the support of CNGI project

- | Research on IPv6 Management System
 - | Intelligent IP planning and automatic address delegation
 - | Real time IP info query
 - | IP info authentication

- | Co-lab on IPv6 with Cisco
 - | Research on IPv6 assignment algorithm for optimized allocation
 - | Research on DHCP protocol extension for address management

Date: May. 2010

Location: Dunhuang

Member Attendees: 100

-ISP, ICP, IDC

-Internet Association

Topic:

- IP/AS Allocation Status/Policy
- IPv6 and hot Internet Application
- IPv6 Training



- | IPv6 Training
- | Research on IPv6 technique
- | RMS Upgrade
 - | Whois Query & DB Mirroring
- | Promotion
 - | Cooperation with other organizations

Thank you!

中国和谐信息社会重要的基础设施建设者，运行者和管理者