



IPv6@CNNIC



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@APNIC Xi'an



What we saw!

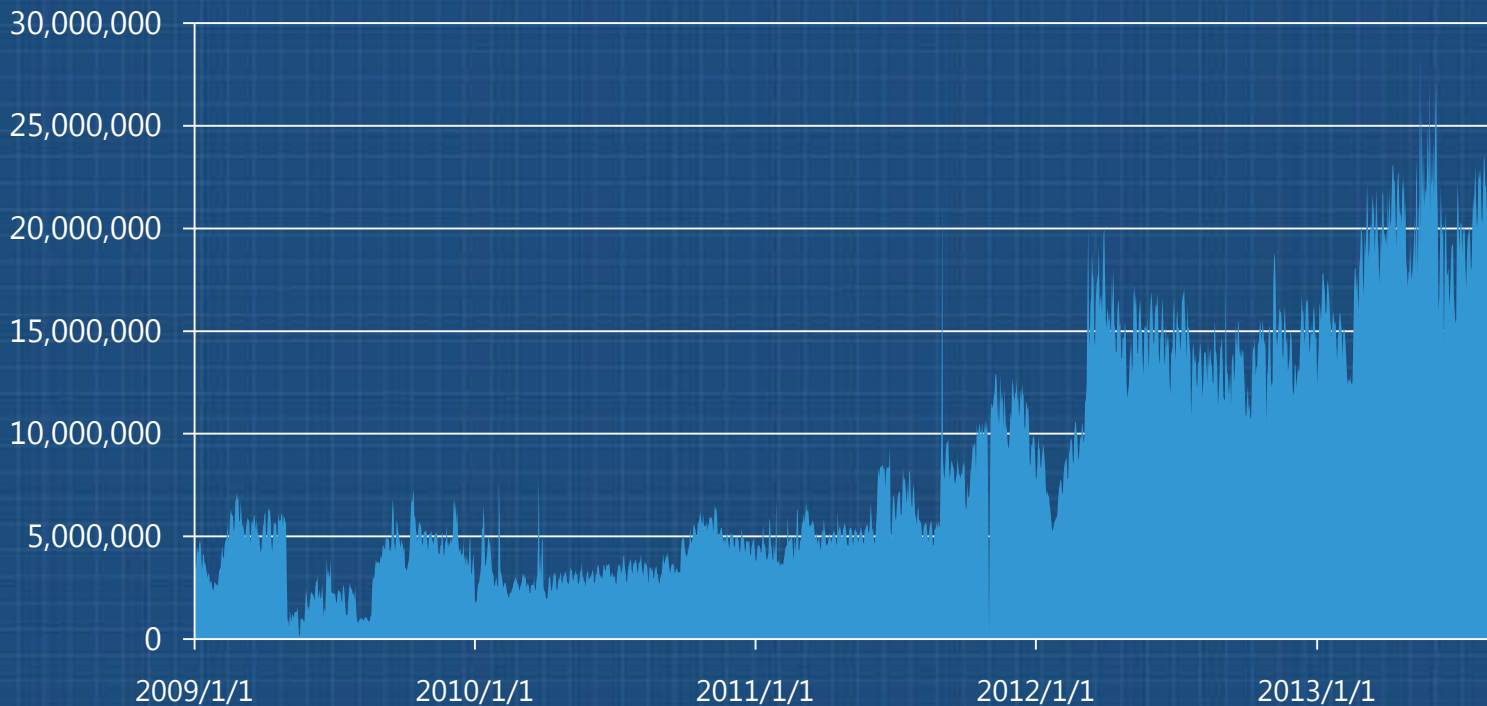
What we did!

What we provide!



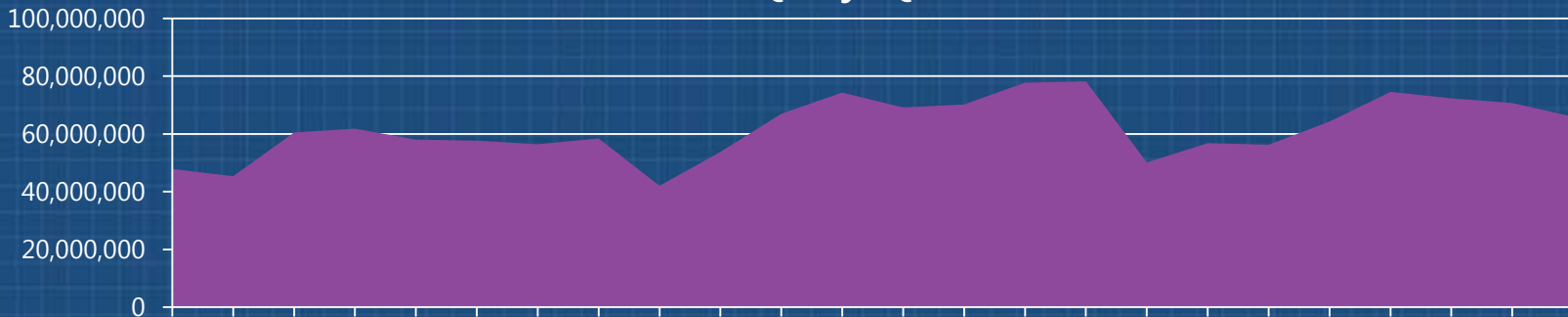
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China ccTLD IPv6 QPD

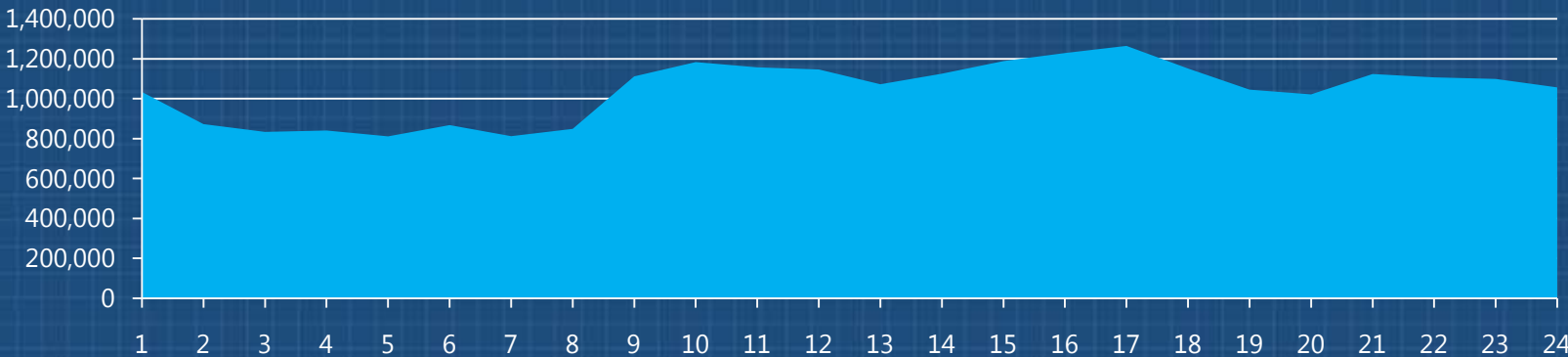


Queries Change of V4 and V6

IPv4 Query (QPH)

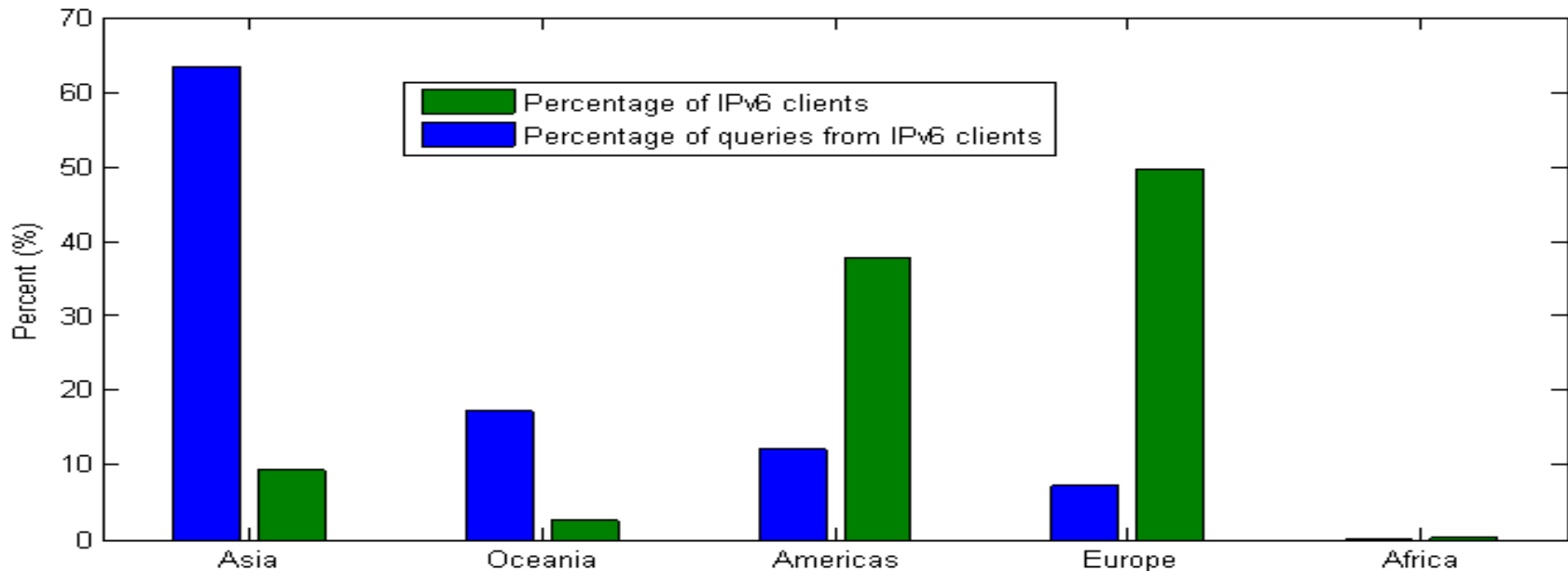


IPv6 Query (QPH)



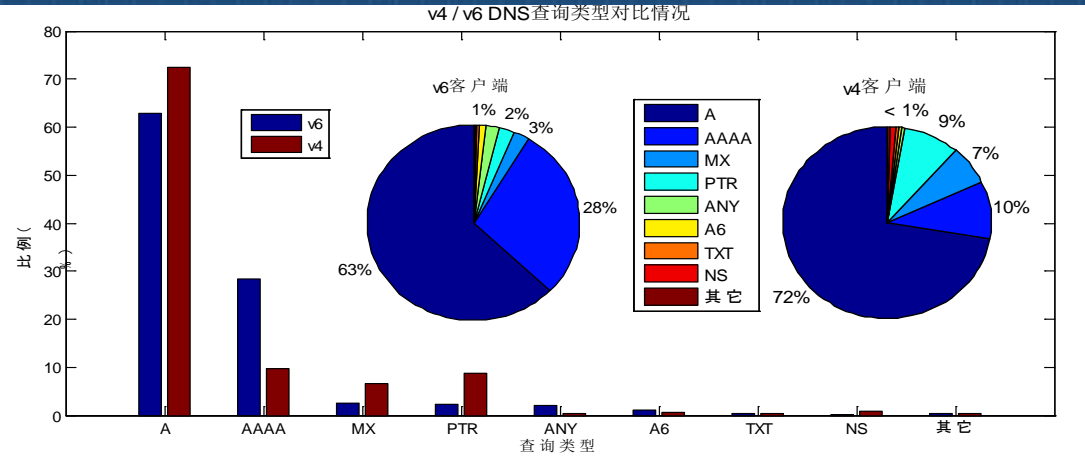
User Distribution

- V6 address of the client come from Europe and the United States, but most traffic from Asia



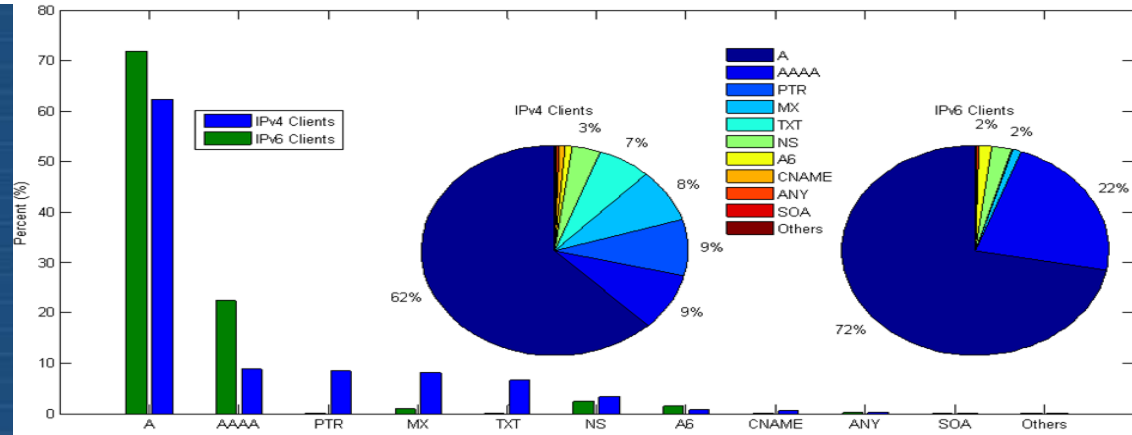
Percentage of IPv6 Clients and their Queries from Different Continents

Record Type Distribution



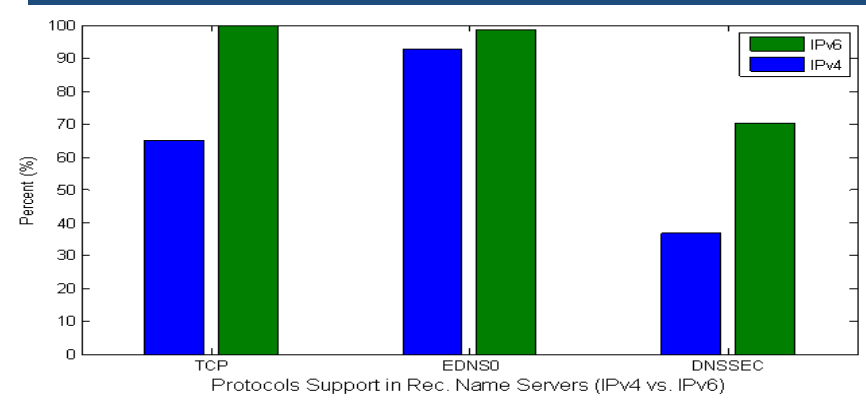
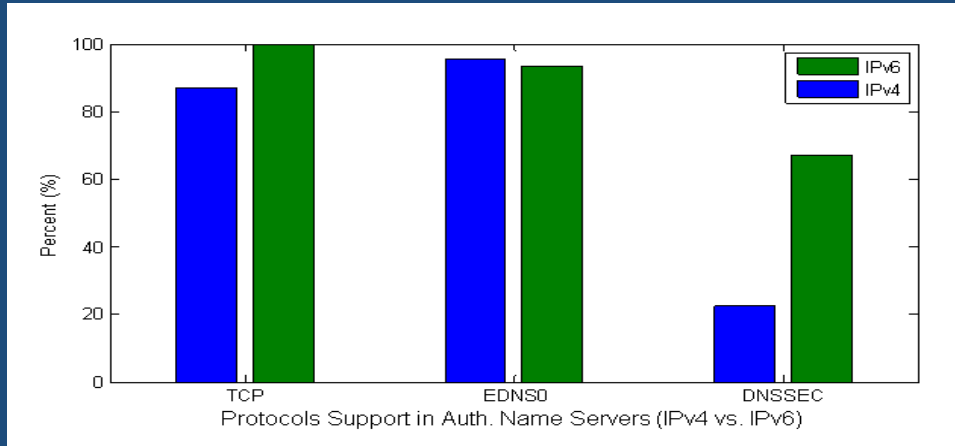
Compared with the V4 request, AAAA record high, A, AAAA two types of requests for more than 90% of all requests. Description of the V6 network, is still a lack of comprehensive application of (MX, NX, PTR lack of record request)

In 2013, AAAA requests for records were increased, IPv6 application rate increases.



DNS Protocol Support

DNS servers in IPv6 network support various protocols quite well



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Project Background

By the end of June, 2013

13.41 mil domain names, 7.81 mil ".CN"

Number of Websites: 2.94 million

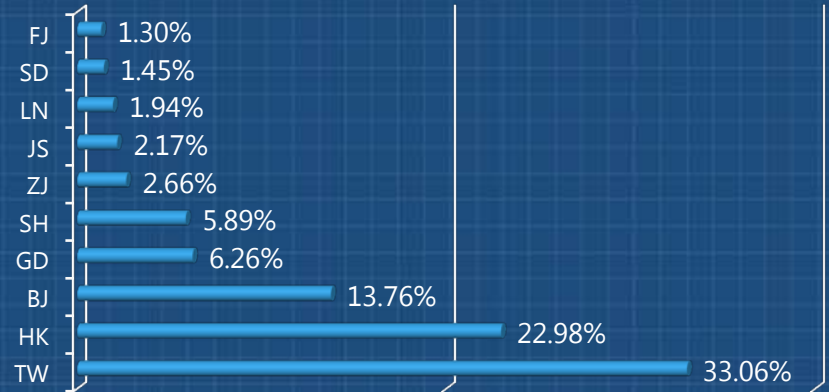
Authoritative Servers: around 20,000

Recursive Server: around 50,000

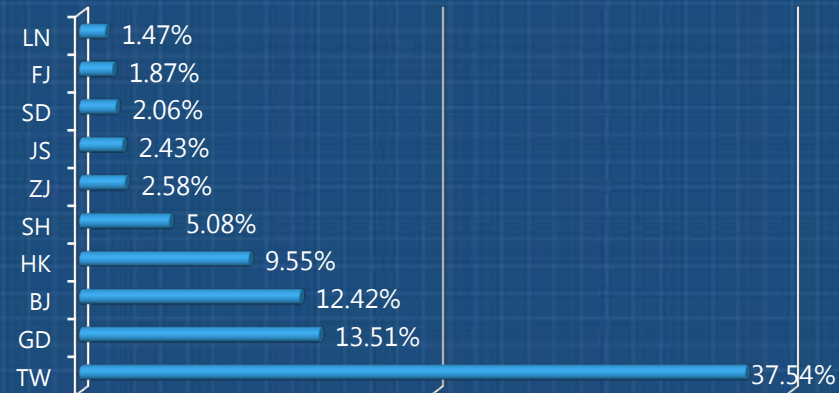
Daily Resolution: 25 billion

90% concentrated in 10 regions

Authoritative Server



Recursive Server



Project Construction

- Upgrade domestic domain name system
- Support IPv4 / IPv6 dual stack
- Protect domain name system security



Wide Coverage

Authoritative domain name server upgrade covers 60% of the corporate / commercial domains, 90% of government / institution domains, 100% Chinese Academy websites



Platform Construction

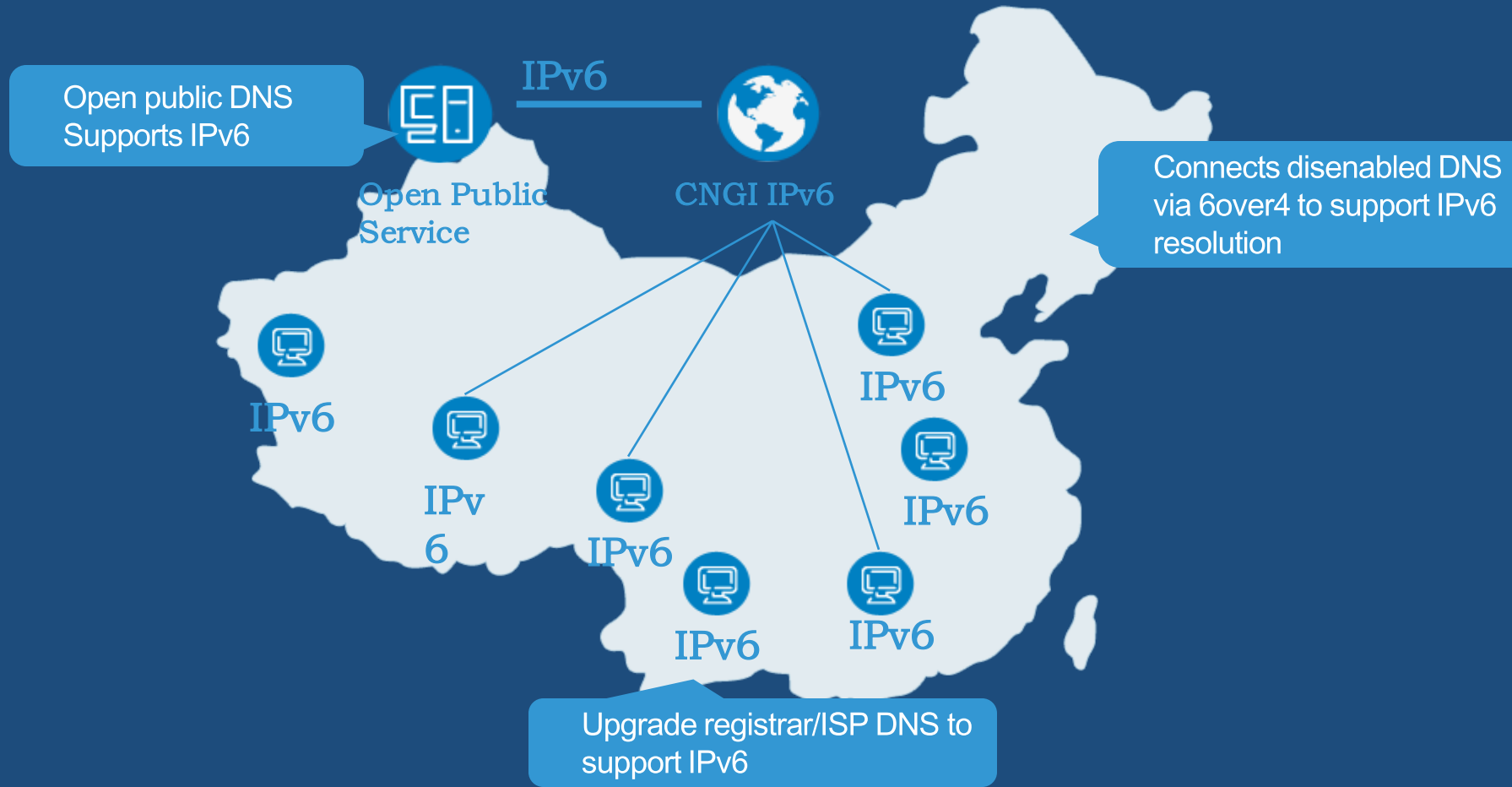
Project construct IPv4/IPv6 authoritative and recursive hosting platform, provides IPv4 / IPv6 authoritative resolution services for more than 20% corporate / commercial domains and 10 million end users



Safety Monitoring

Deploy domain name safety monitoring system in 30 cities as commercial trial to protect the security and stability of the Domain Name System

Upgrade Program



Fully support IPv6 , DNSSEC

Open authoritative services and emergency backup platform

- ✓5+1 nodes
- ✓DNS Hosting
- ✓DNS Backup



Open Recursive Services

- ✓7 nodes dogmatically
- ✓Standard and customized services
- ✓Support blacklist, block illegal site

Open Public Service Platform

Safe

Smart

Speed

What we saw!

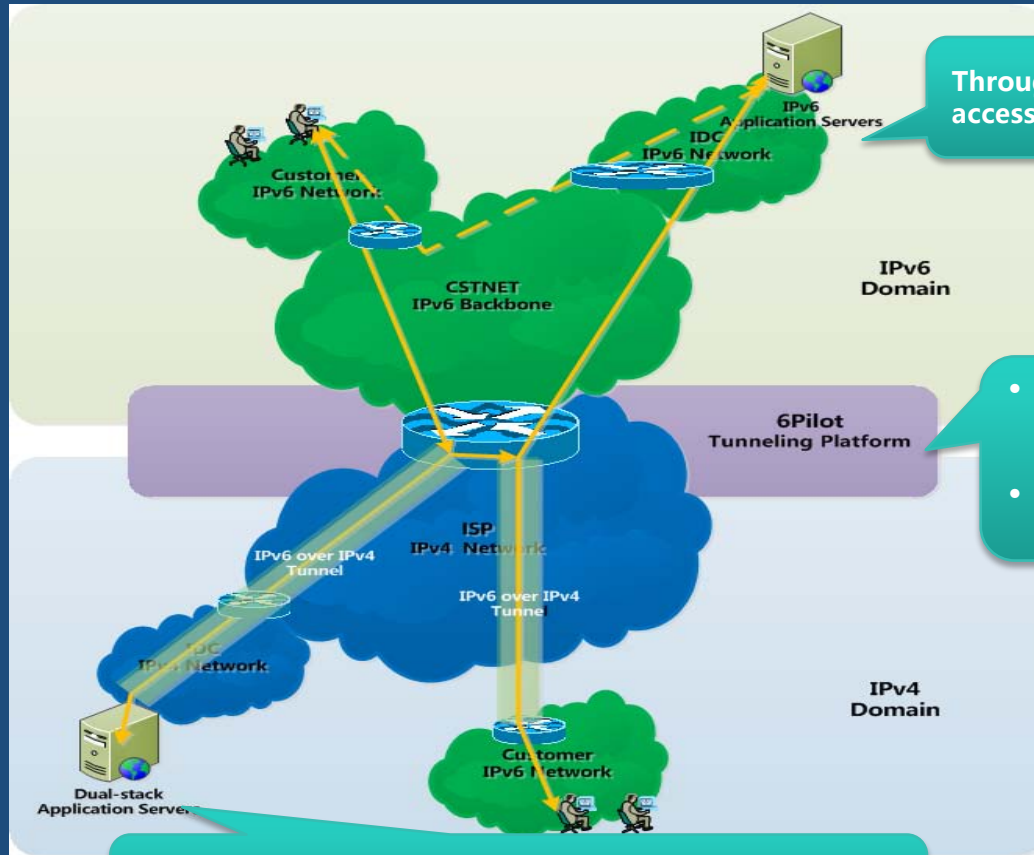
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6Pilot - Lightweight IPv6 transition Platform



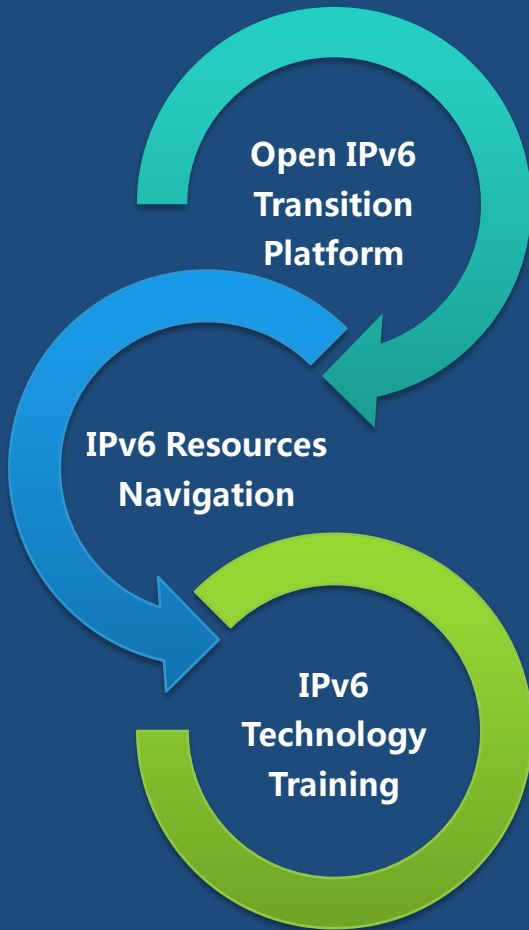
Through 6Pilot tunnels, Users in IPv6 networks can access dual-stack application servers in IPv4 networks.

- 6Pilot tunnels IPv6 Packets over IPv4 Network. IPv6 Users and IPv4 dual-stack Users can access IPv6 and dual-stack application servers .
- 6Pilot is fully free.

Now, 8 customers have applied to access 6Pilot.

Through 6Pilot tunnels, dual-stack application servers can be accessed by users in IPv6 and IPv4 domains.

6Pilot – Deep in IPv6 Data Exchange



1st Step

◆ Infrastructure

- ◆ Cloud deployment of hardware based on CST Net
- ◆ Flexible and extensible access services
- ◆ Integrated management platform

2nd Step

◆ Application-developer oriented

- ◆ Free accessibility
- ◆ Build Developer-centric forum
- ◆ IPv6 data exchange & application verification

3rd Step

◆ IPv6 Solution consulting and training

- ◆ IPv6 transition technology training
- ◆ IPv6 networking consulting



Thank You!