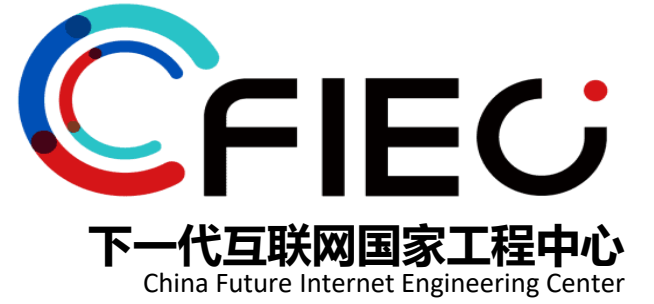


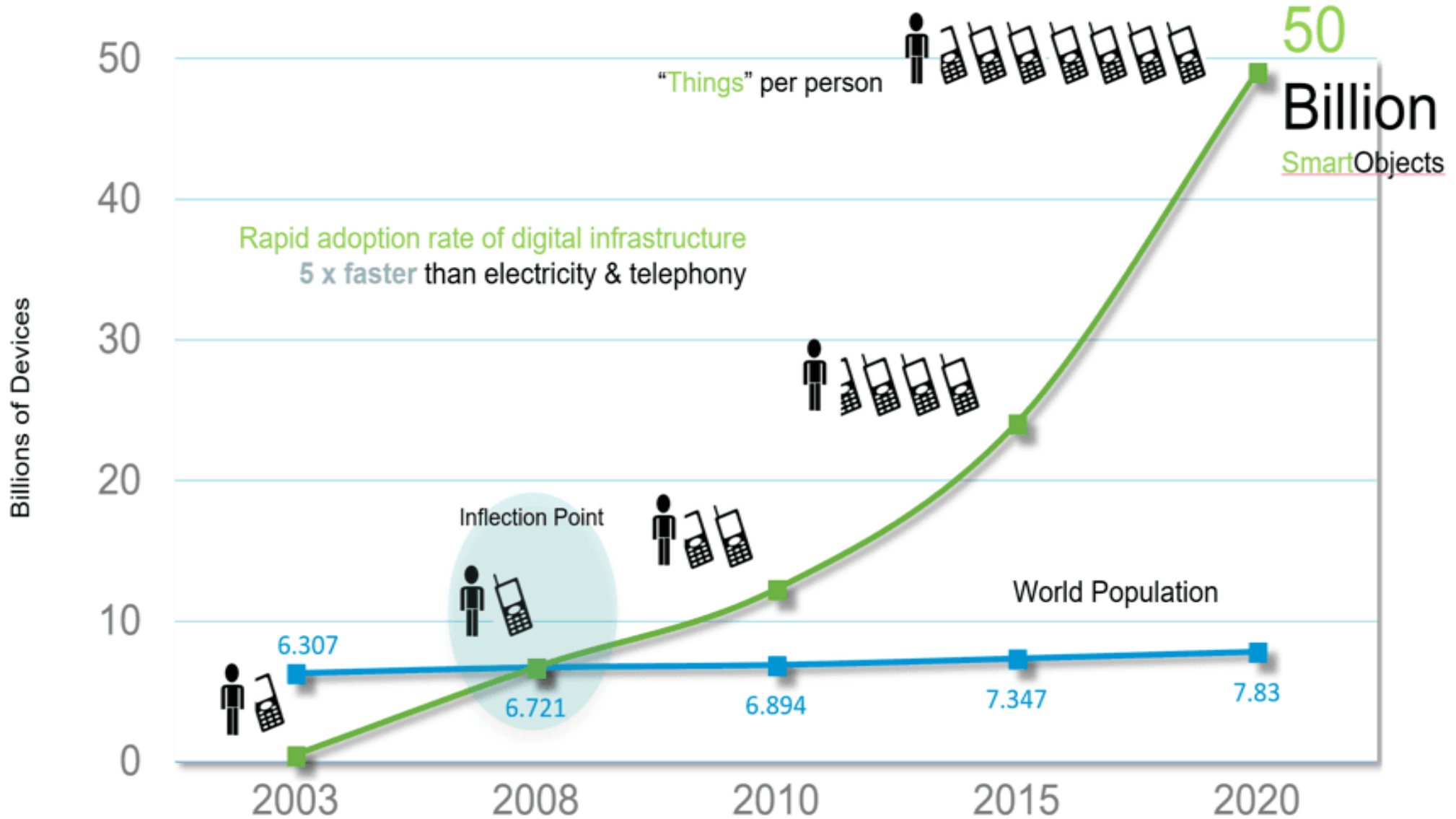


BII



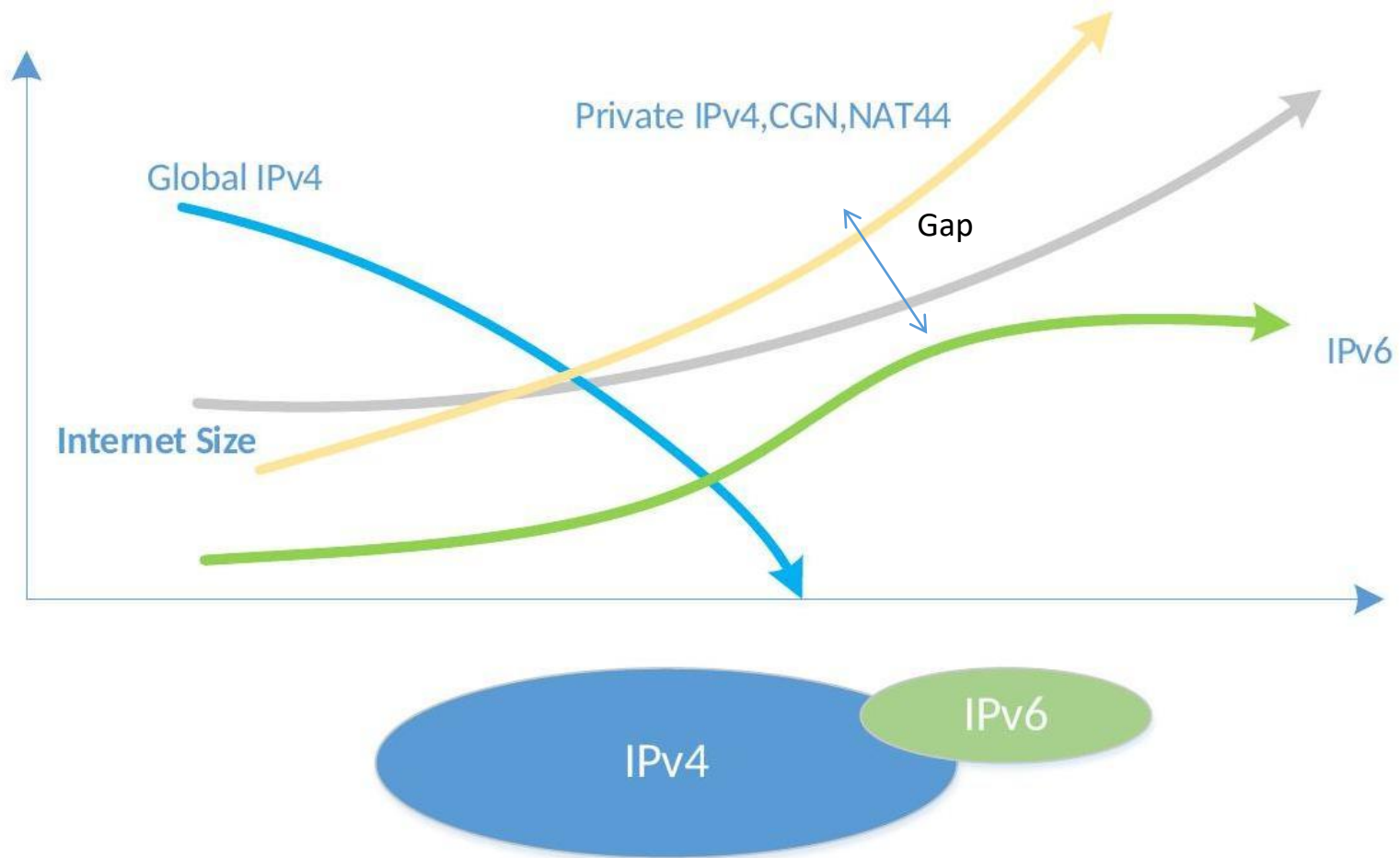
China's IPv6 Evolution and Strategy

IoT: A Must do



Cisco IBSG projections, UN Economic & Social Affairs <http://www.un.org/esa/population/publications/longrange2/WorldPop2300final.pdf> (2015)

The Risks from IPv4 to IPv6

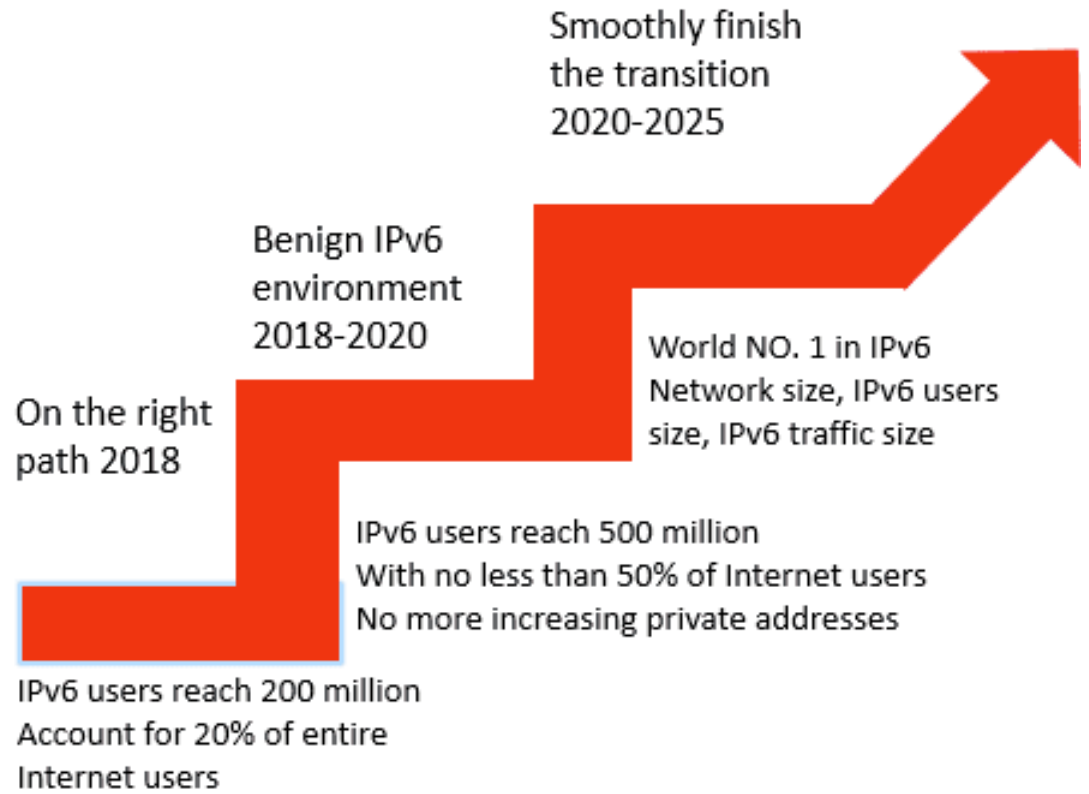
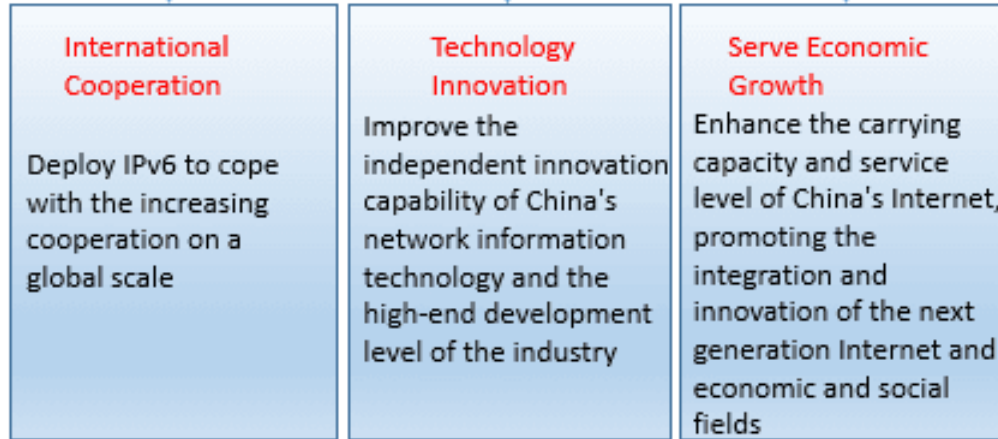


IPv6 Action Plan Issued by Highest Administrative Office



中共中央办公厅 国务院办公厅印发《推进互联网协议第六版 (IPv6) 规模部署行动计划》

To realize the dream of Internet Competitive Country

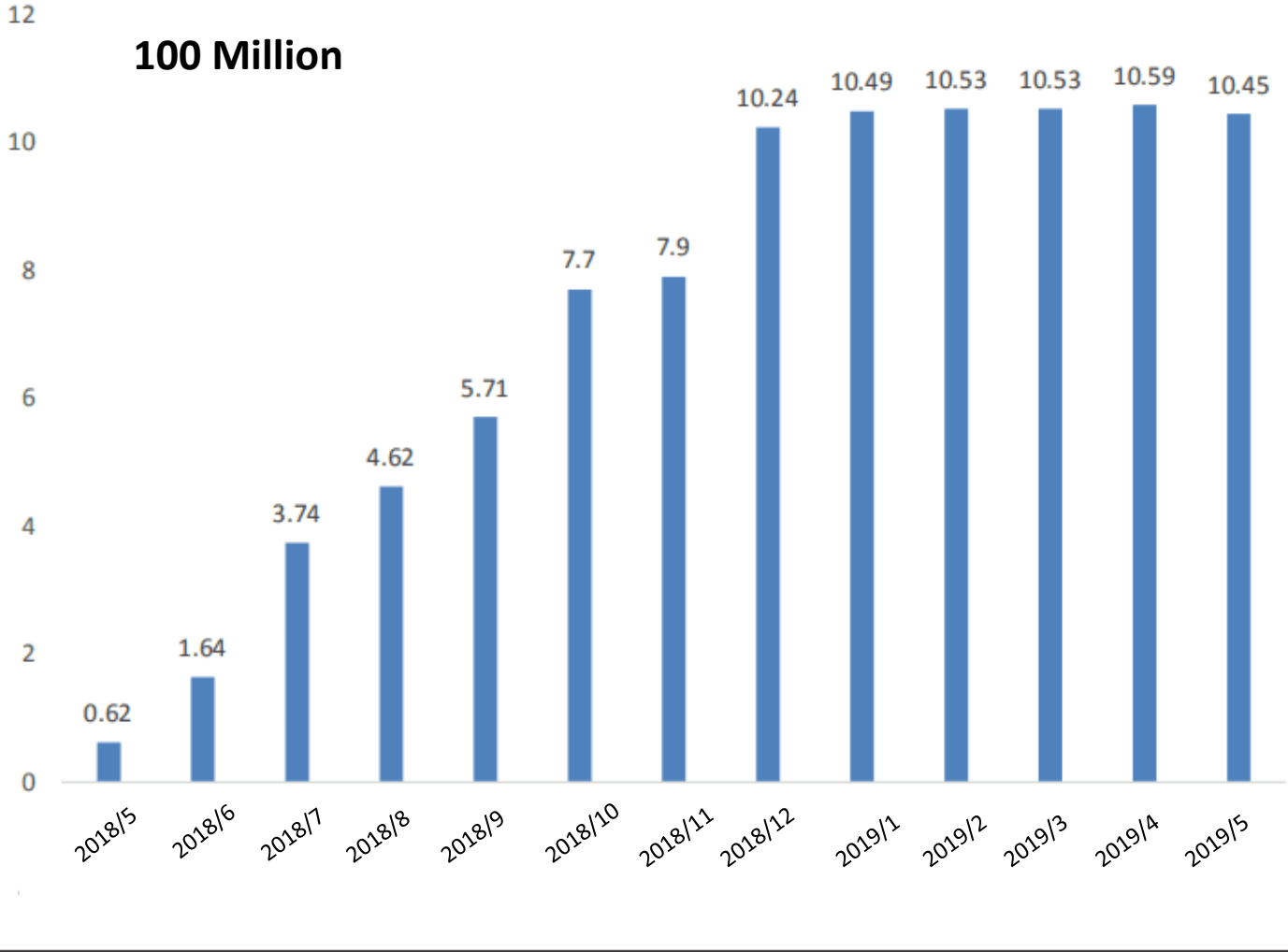


China Aims To Build The Largest IPv6 Commercial Network

By the end of 2025, network, applications and terminal devices will fully support the adoption of IPv6 in China, and it will have the largest number of IPv6 users in the world, according to the plan.

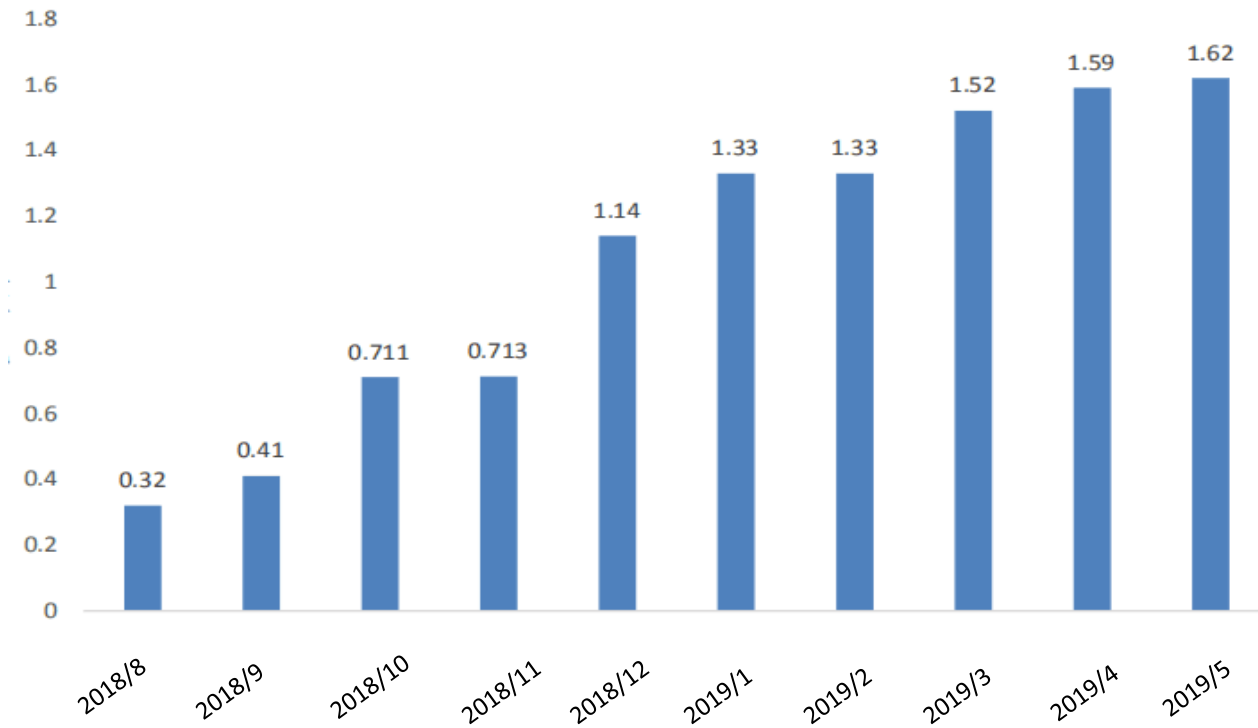
Time	Users	Commercial Websites	Government Websites	Network	Internet Infrastructure
2018	200 Million (20%)	Top 50	State and State owned level, Media, TV	ISP backbone network, Metropolitan Area Network, Network nodes, Mobile LTE network, RFT backbone network	Large IDC, Top 5 CDN, Top 10 cloud service providers with half of the business, DNS, Gateway 300G
2019-2020	500 Million (50%)	Top 100	City level	RFT all networks	Large IDC, Top 10 CDN, Top 10 cloud service providers with all business units. All gateway
2021-2025	World' s largest	All IPv6 supported	All IPv6 supported	World' s largest Network (IPv6-only)	World' s largest Network (IPv6-only)

LTE Network IPv6 User

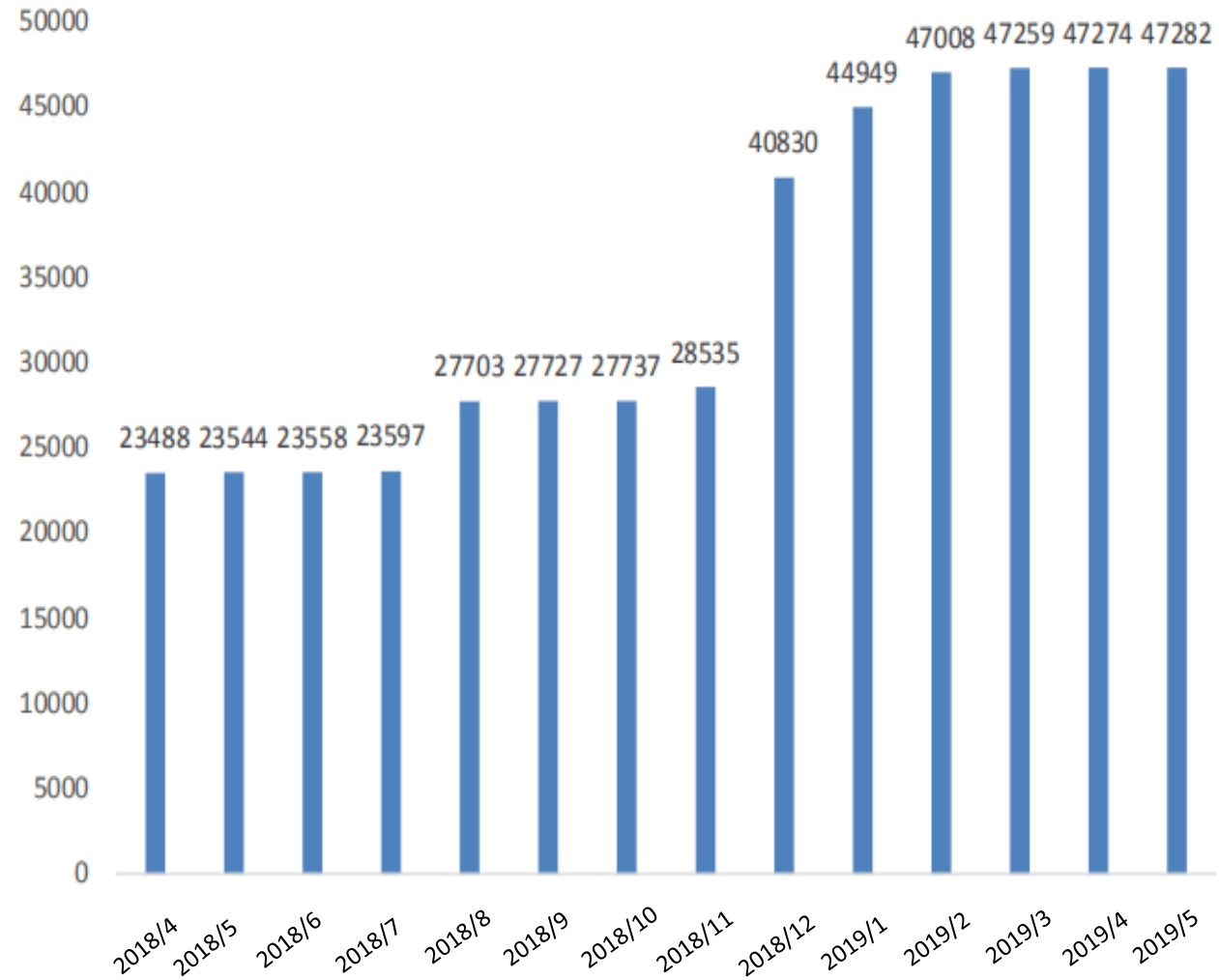


Fixed Broadband IPv6 User

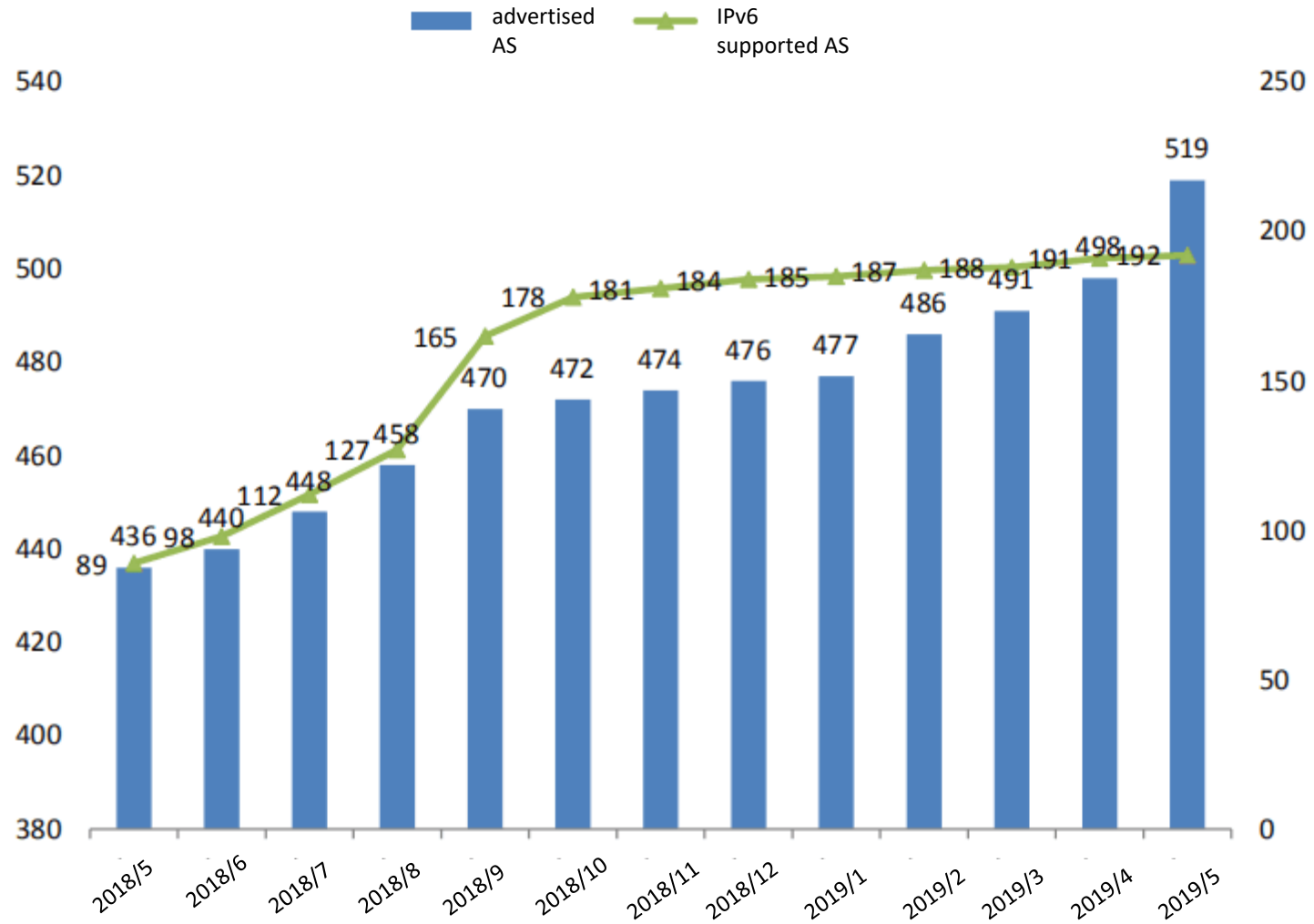
100 Million



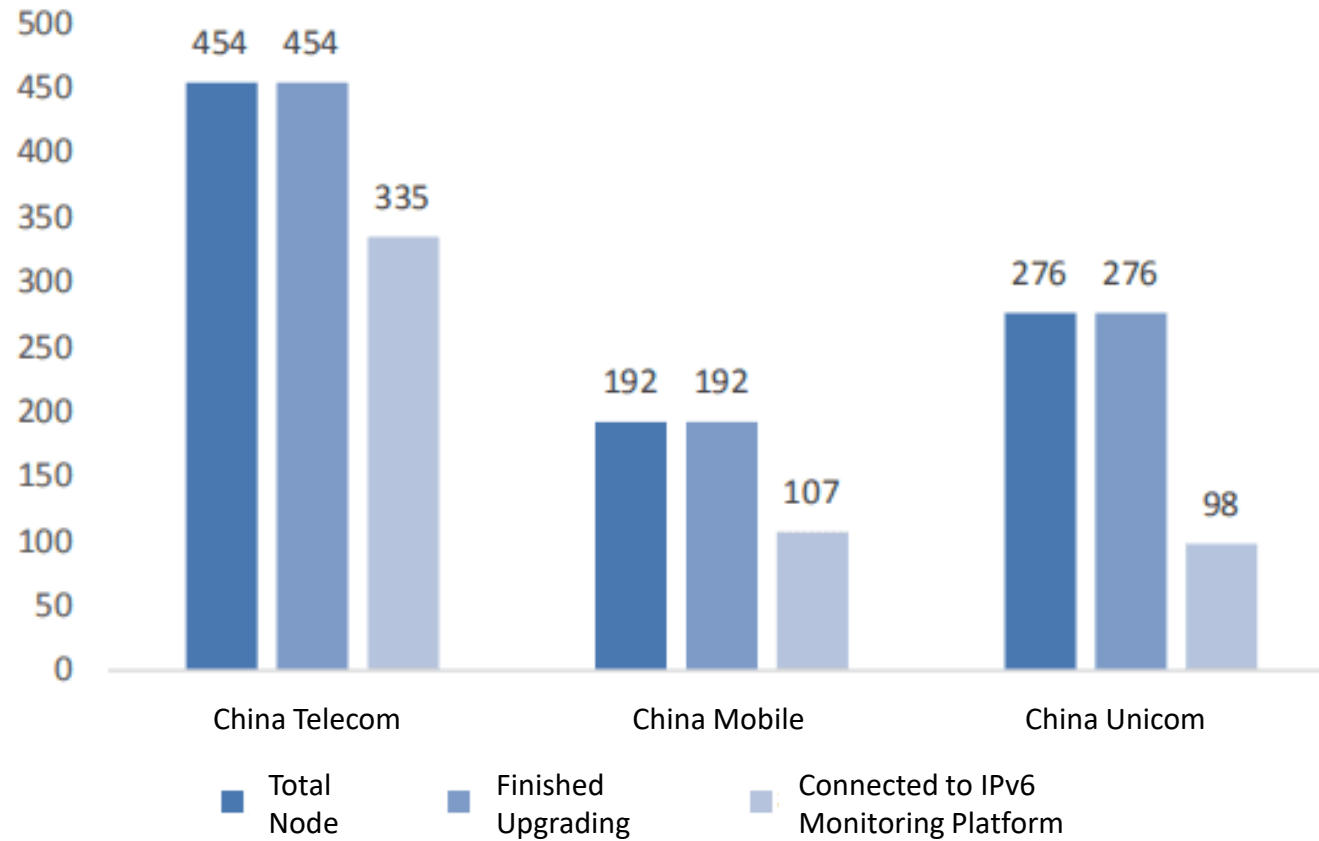
IPv6 Address Increase



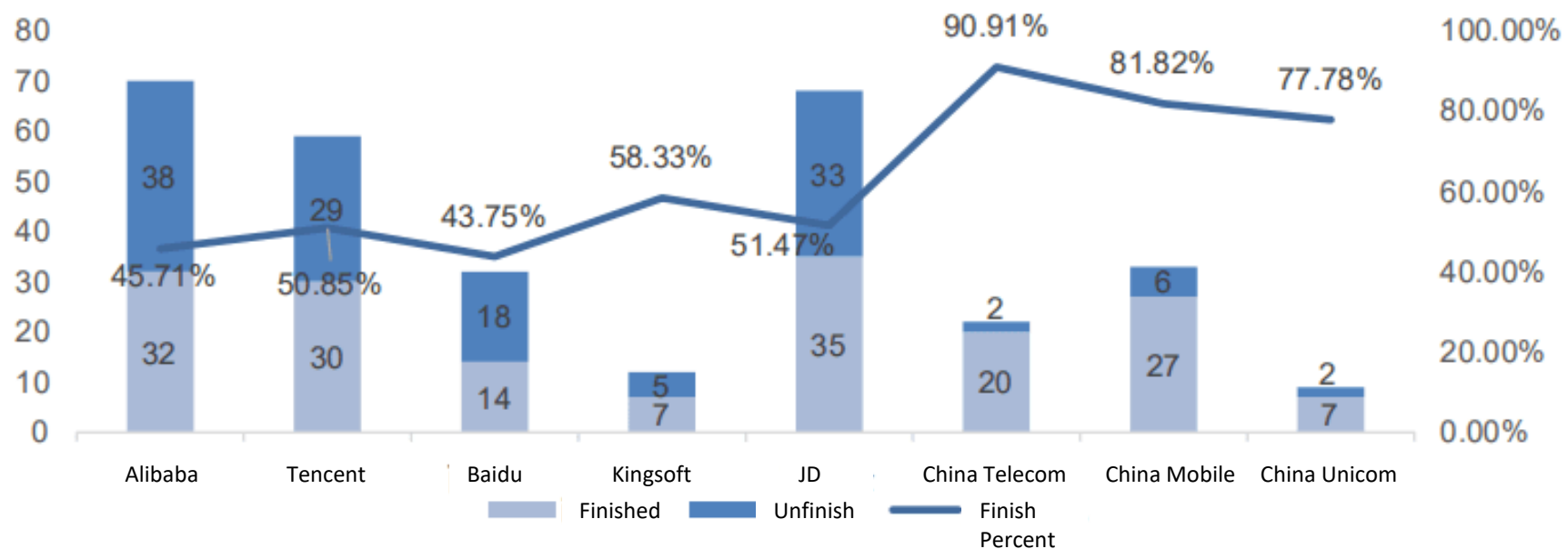
AS IPv6 Support



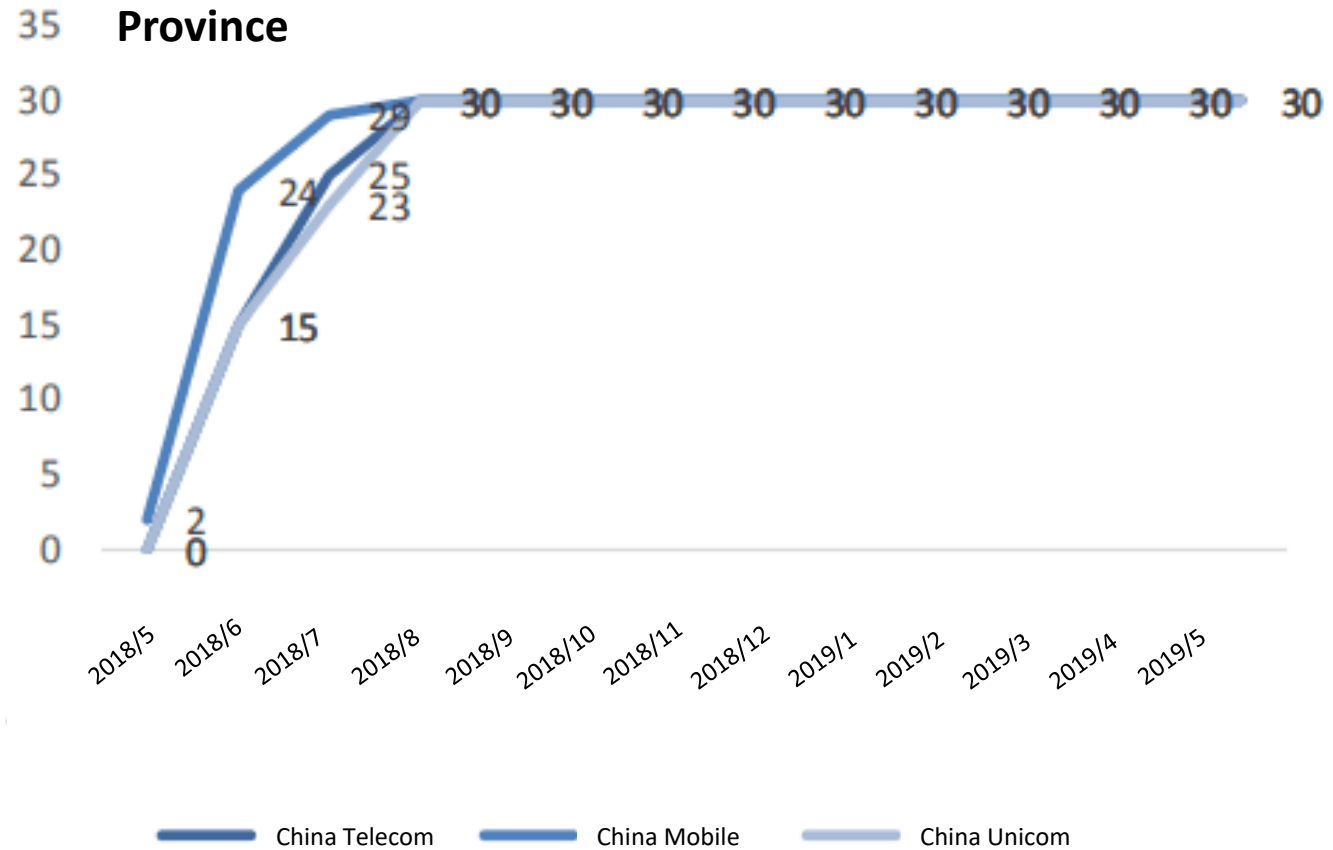
Network Operator IDC Upgrade



Cloud Platform Upgrade

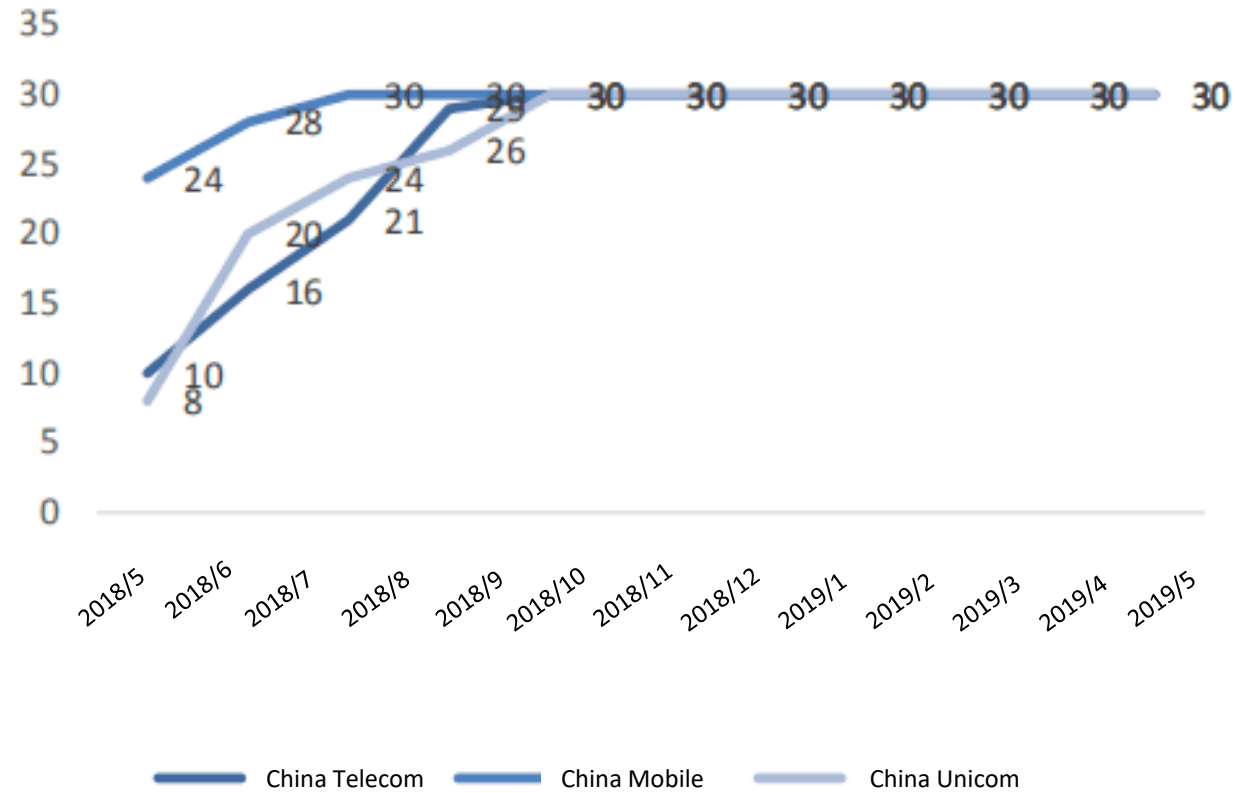


LTE Network IPv6 Upgrade



Metropolitan Network IPv6 Upgrade

Province




Til 2019/06:

- **Among 91 Government Websites, 83 are IPv6 accessible (91.2%).**
- **Among 96 Governmental Enterprise Websites, 77 are IPv6 accessible (80.2%).**



Technology



The most profound technologies are those that disappear. They weave themselves into the fabric of everyday life until they are indistinguishable from it...

- Mark Weiser 1991

Yeti DNS Project

--A Live IPv6-only Root DNS Server System Testbed



Introduction

"One World, One Internet, One Namespace" is the essence for the success of today's Internet. The top level of the unique identifier system, the DNS root system, has been operational for 25+ years. It is pivot to make the current Internet useful. So it is considered somewhat ossified for stability reasons. It is hard to test and implement new ideas evolving to a more advanced level to counter challenges like IPv6-only operation, DNSSEC key/algorithm rollover, scaling issues, etc. In order to make the test more practical, it is also necessary to involve users' environment which is highly diversified, to study the effect of the changes in question.

To benefit the Internet development as a whole, the proposal of Yeti Project is formed to build a parallel experimental live IPv6 DNS root system to discover the limits of DNS root name service and deliver useful technical output. Possible research agenda will be explored on this testbed covering several aspects but not limited to:

- IPv6-only operation
- DNSSEC key rollover
- Renumbering issues
- Scalability issues
- Multiple zone file signers

Interested parties in this community like individual researchers, labs of universities, companies and institutes are welcome to join us as Yeti root server operators (at least 25 operators), recursive name server operators, and individual researchers. It is expected that Yeti Project can also gain the support from vendors, for example, the DNS software implementers, Developers of CPE devices & IoT devices, middle box developers who can test their product and connect their own testbed into Yeti testbed.

Introduction

Events & Announcements

Yeti Root Zone

Documents & Resource

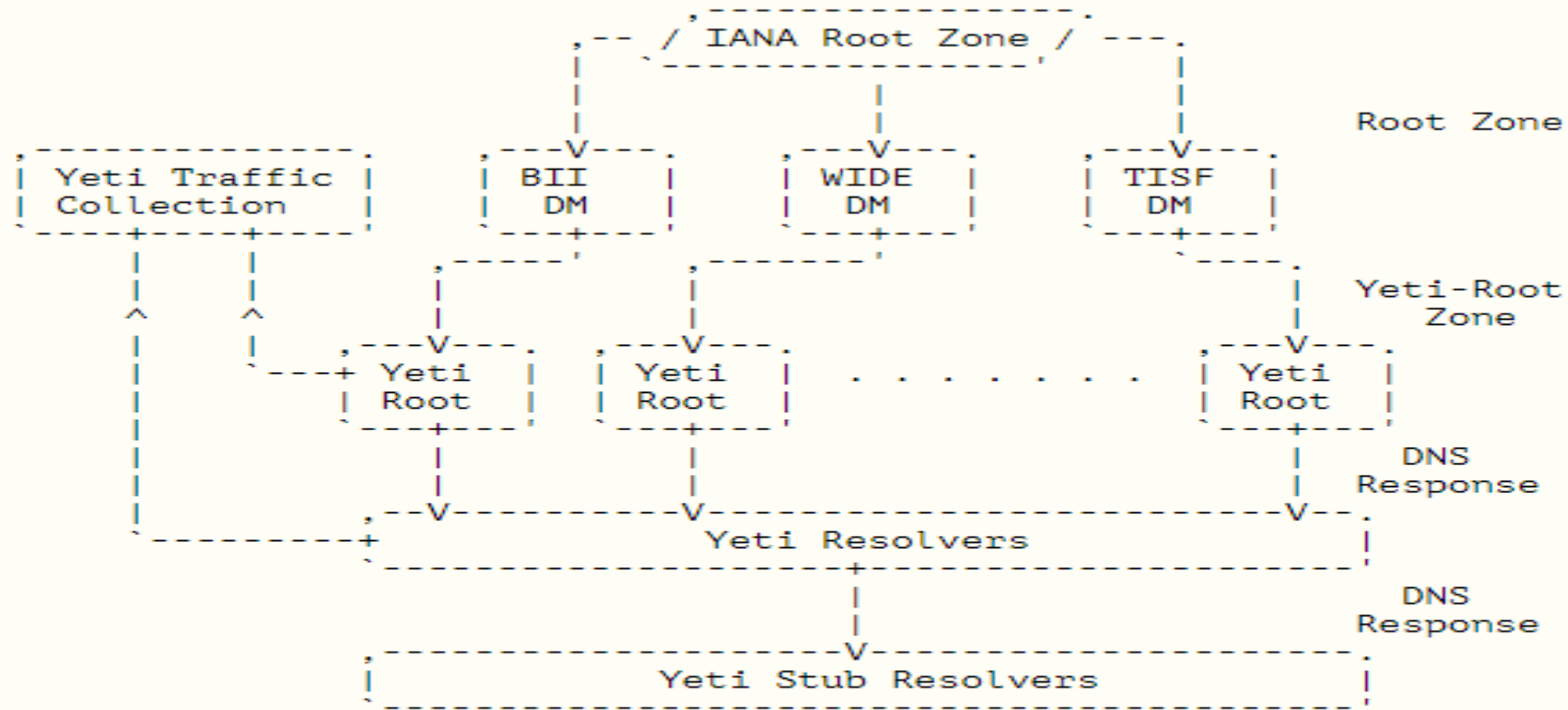
Operators and Participants

Statistics

Monitoring

Acknowledgement

RFC 8483



The three coordinators of Yeti DNS testbed :

BII : Beijing Internet Institute

WIDE: Widely Integrated Distributed Environment Project

TISF: A collaborative engineering and security project by Paul Vixie

Yeti DNS Testbed

draft-song-yeti-testbed-experience-10

Status IESG evaluation record IESG writeups Email expansions History

Versions 00 01 02 03 04 05 06 07 08 09 10



Document	Type	Active Internet-Draft (individual)
Last updated		2018-08-20 (latest revision 2018-07-19)
Stream		ISE
Intended RFC status		Informational
Formats		plain text xml pdf html bibtex
IETF conflict review		conflict-review-song-yeti-testbed-experience



- Promote Next Generation Internet Infrastructure
- Keep a sustainable development of the Internet

Global project starting from Asia Pacific Region

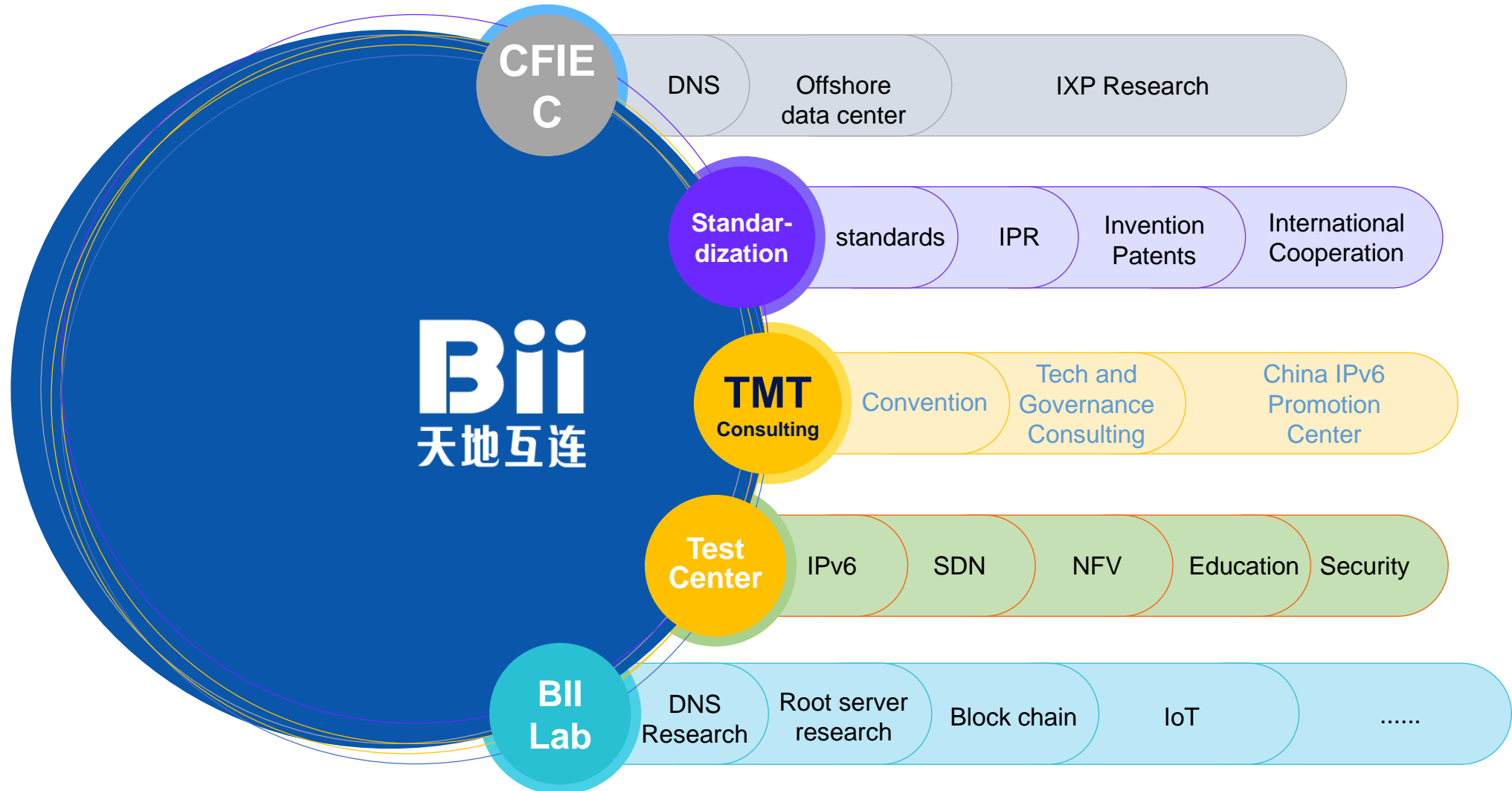
An innovative initiative



Special thanks to Philippines team



What We Do



Service to hundreds of enterprises worldwide

service of IPv6 testing and certificating to hundreds of partners



Network Equipment vendors

HUAWEI, ZTE, DCN, Lenovo, Ruijie Networks, TOPSEC, Venustech, JIANGMIN, SECWORLD, www.net.cn, BITWAY NETWORKS, ZTCC, China Datang Co. Potevio, 3COM H3C, MetarNet.....

Terminal device vendors

MIUI, Lenovo, AIGO, INNOFIDEII, BORQS, Colli High, JIAXUN, Hopen, FOUNDER, VINNOTECH, AUTELAN, BEIJING WATY, LONGDHUA, XINWEI, Veno, KYLAND.....

Service and application provider

360 Qihoo 360, Baidu, Sohu, 21vianet, CERNET, CAPINFO, Hui Dian, JIANGMIN, Uniware, www.net.cn, ChinaNet.CC, KINGSOFT, Unioncast, offcn, China Telecom, China Unicom, China Mobile.....

Colleges and insitutes

Tsinghua University, BUPT, Beijing Jiaotong University, Beihang University, USTC, BIT, CNIS, CEPRI, ITEI, CATR, CNNIC, ICT.....

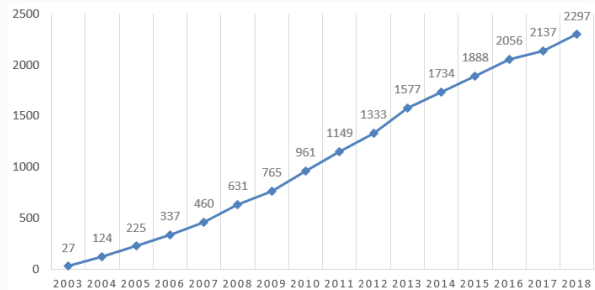
Build the World's Largest Third Party IPv6 Certificate Center

BII conducts research and development in IPv6 conformance, interoperability, automation and performance testing fields, and offer IPv6 Ready, IPv6 Enabled, IPv6 Education certification globally.



全球IPv6测试中心
Global IPv6 Testing Center
www.IPv6Ready.org.cn

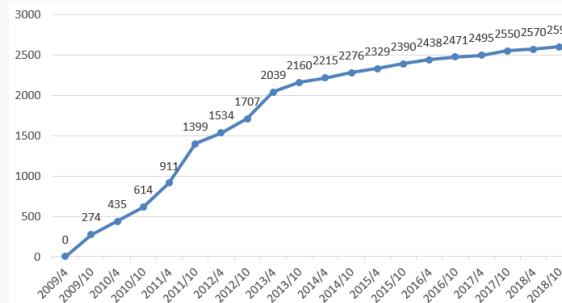
IPv6 Ready



IPv6 Ready certified equipments trend

2297 IPv6 Ready Logo

IPv6 Enabled



IPv6 Enabled certified websites trend

2598 IPv6 Enabled Logo

IPv6 Education



First IPv6 Education Center

On July 2018, signed agreement with Nanjing Information Management Institute to collectively promote IPv6 education.

Establish Global SDN Test Center and Push for Open Internet Community

Establish Global DNS Test Center

CFIEC Global SDN Test Center focuses on SDN/NFV development, promotion and certificates. First group of all 11 **OpenFlow v1.3** products are all tested in the center and claimed certification.



Establish SDN Test Standard and Tool

- OpenFlow 1.3 conformance standard Basic single table profile
- ONF OpenFlow controller performance standard
- **Self-developed OFsuite**, the world's first test tool that fully covers the ONF OpenFlow v1.3 test specification

Logo ID	日期	厂商名称	产品名称	产品版本
OFS-1.3-BA-00-0119	2015-12	Huawei Technologies Co., Ltd.	S5720-52X-SI-AC	V2R8C06
OFS-1.3-BA-00-0118	2015-12	Huawei Technologies Co., Ltd.	S7706	V2R8C06
OFS-1.3-BA-00-0117	2015-12	Huawei Technologies Co., Ltd.	S9306	V2R8C06
OFS-1.3-BA-00-0116	2015-11	Huawei Technologies Co., Ltd.	S6720-54C-EI-48S	V2R8C06
OFS-1.3-BA-00-0115	2015-11	Huawei Technologies Co., Ltd.	S5720-36C-PWR-EI	V2R8C06
OFS-1.3-BA-00-0114	2015-11	Huawei Technologies Co., Ltd.	S12708	V2R8C06
OFS-1.3-BA-00-0113	2015-09	Digital China Networks, Ltd.	DCRS-7604	7.4.3.0(R0001.0081)
OFS-1.3-BA-00-0112	2015-09	Hangzhou H3C Technologies Co., Ltd.	S5130-54QF-HI	ESS 1100
OFS-1.3-BA-00-0111	2015-09	Hangzhou H3C Technologies Co., Ltd.	H3C S6800-54QF	142
OFS-1.3-BA-00-0110	2015-09	Huawei Technologies Co., Ltd.	CE6851-48S6Q-HI	V100R006
OFS-1.3-BA-00-0109	2015-09	ZTE Corporation	ZXR10 M6000-S	V3.00.10

OSPC Open Network Community

Together with ONF established "Open SDN Promotion Center(OSPC)", aiming to build open SDN eco-system, assist open source program, promote OpenFlow application.



Global Network Technology Conference 2019

GNTC 2019 22-24, October China
全球网络技术大会
Global Network Technology Conference

www.theGNTC.com

Day2 10.23

Day1 10.22

Opening

Plenary Session: Global Trends in Advanced Network Technology

Special Ceremony

High Performance Computing Center Opening Advanced Network Innovation Alliance Opening
Advanced Network Foundation Opening Signing Ceremony

IPv6 Hall of Fame Ceremony

Banquet

P
M

A
M

Summit

IPv6

Work shop LF Networking

Summit

5G

Work shop Network 5.0

Summit

Edge Computing & IoT

Work shop Customization

P
M

Summit

SDN/NFV

Work shop Network Security

Summit

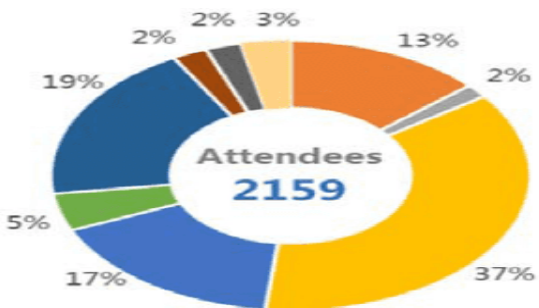
AI/Blockchain

Work shop OpenStack

Summit

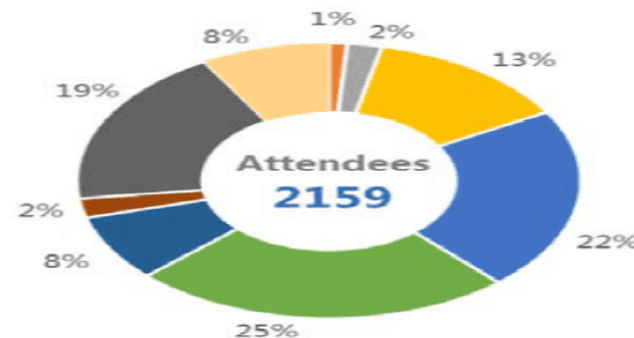
Cloud

Work shop Customization



By Industry

- Carrier
- Gov. Dept. Director
- Equipment Manufacturer
- Software Provider
- IDC & Cloud Company
- Research Institute/College
- Financial Institution
- Media
- Others



By Position

- Government
- President/VP
- CEO/GM/Director
- Manager/Deputy Manager
- Engineer
- Marketing/Sale/Consult
- Editor/Journalist/Specialist
- Professor/Lecturer/Student
- Others

Thank You!



Bii
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CFIEC

下一代互联网国家工程中心
China Future Internet Engineering Center

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