

Taiwan IPv6 Readiness

Tim Wang

Taiwan Network Information Center

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IPv6 Readiness Measurement BoF



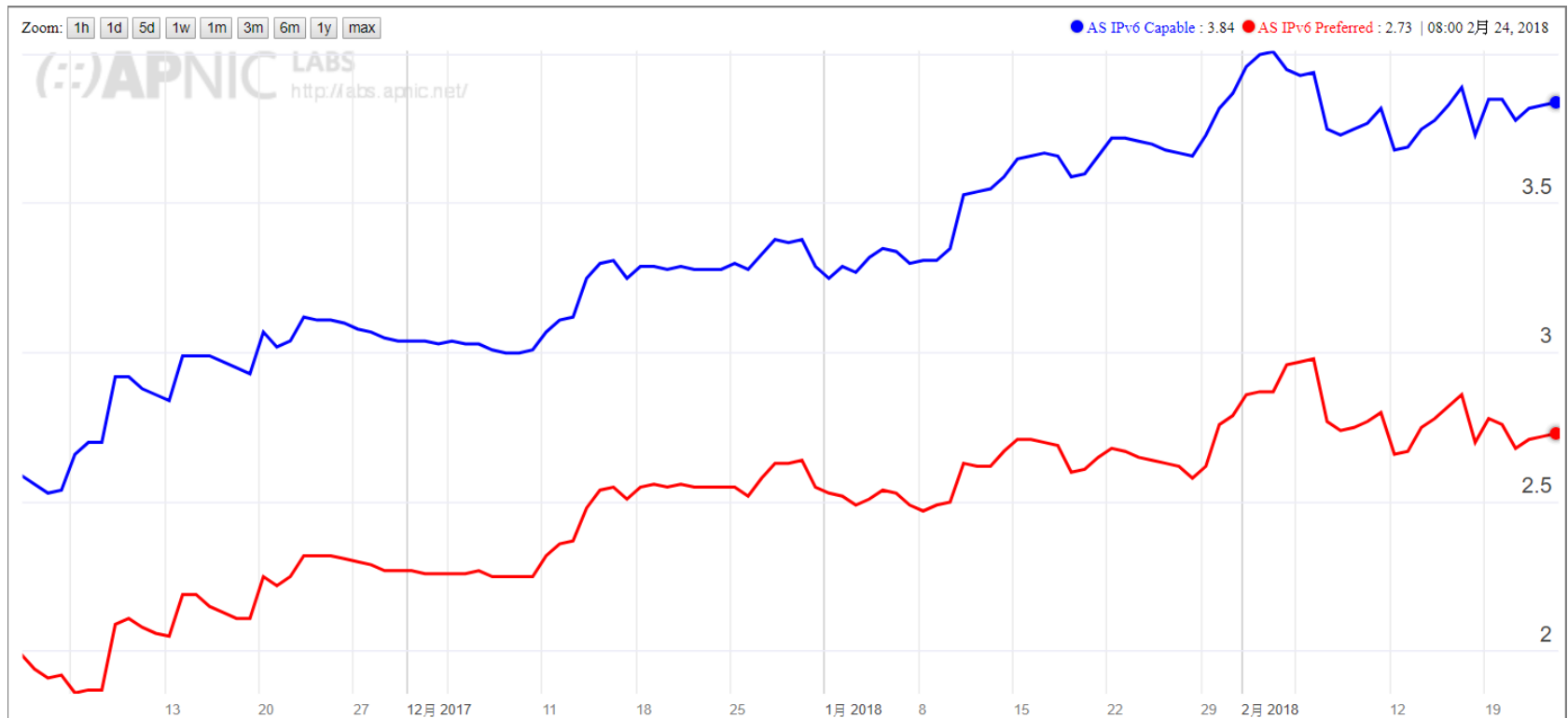
Outline

- Status of IPv6 Deployment in Taiwan
 - Government Network
 - Academic Network
- CHT IPv6 Deployment
 - Major IPv6 Milestones
 - IPv6 Deployment Roadmap
 - IPv6 Testing Service (IPv6 Ready Logo)
- Status reports for Outcome of the criteria of IPv6 Readiness Measurement
- Conclusions



Taiwan IPv6 Deployment in Governmental Agencies

- IPv6 user availability in GSN has arrived at 3.84%
- AS4782: GSNET (Government Service Network)

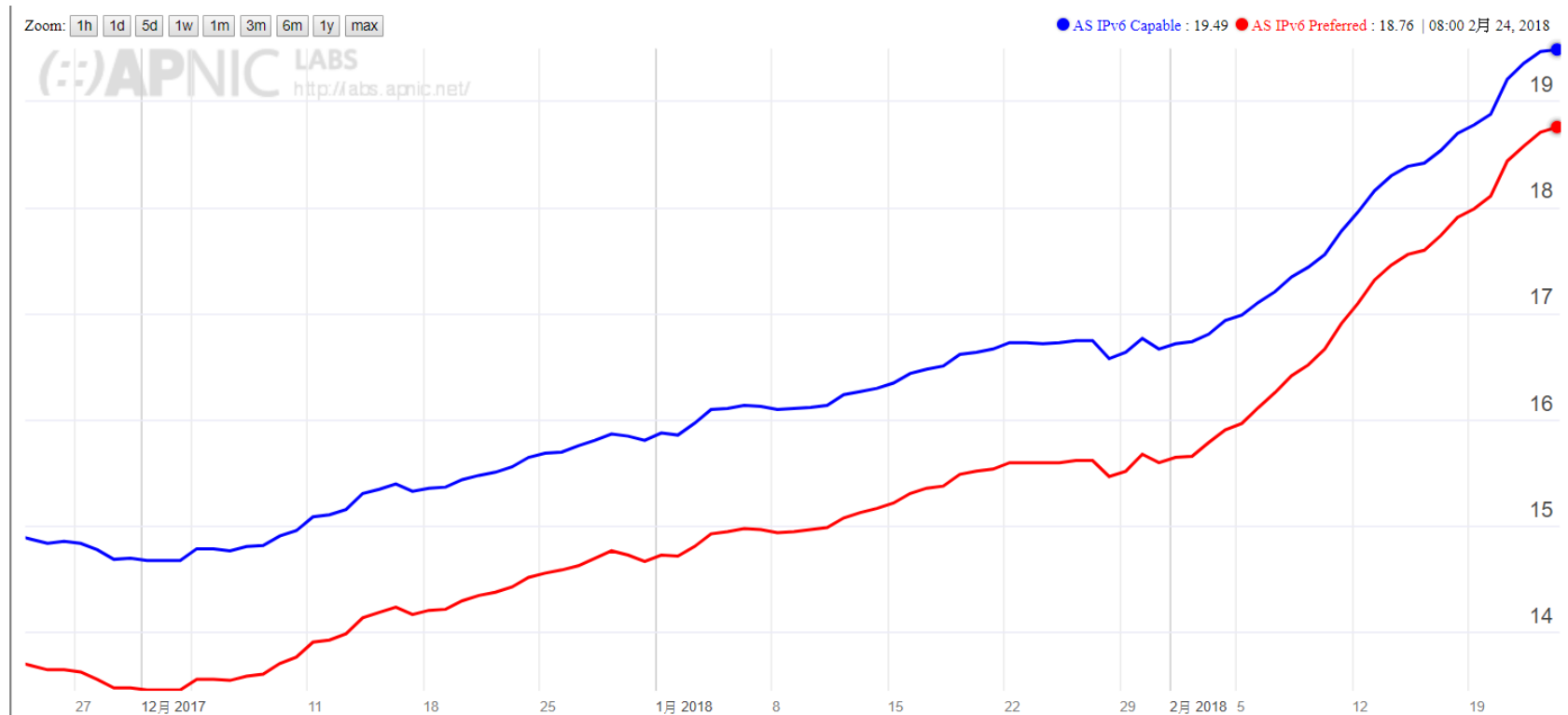


Source:APNIC



Taiwan IPv6 Deployment in Academic Network

- IPv6 user availability in TANet has arrived at 19.49%
- AS1659: TANet (Taiwan Academic Network)



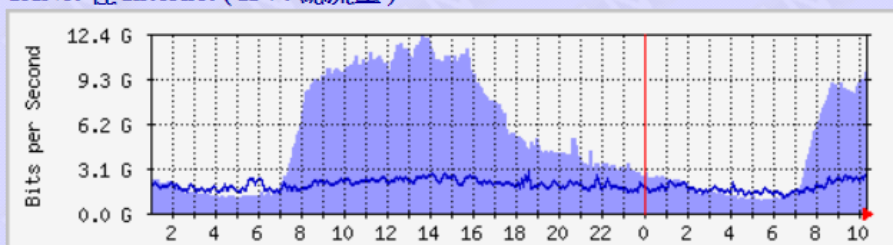
Source: APNIC



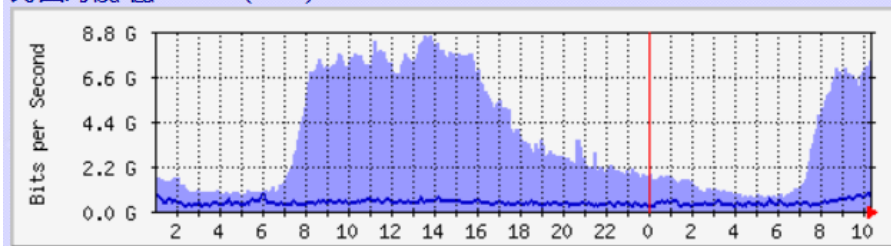
Taiwan IPv6 Deployment in Academic Network

- IPv6 traffic in TAnet is grown up. The traffic of Taiwan in IPv6 of TAnet is around 3.8Gbps, 18% of IPv4 traffic.
- AS1659: Taiwan Academic Network (TAnet)

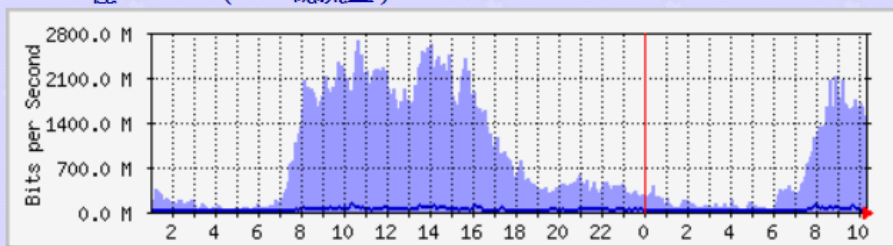
TAnet 往 Internet (IPv4 總流量)



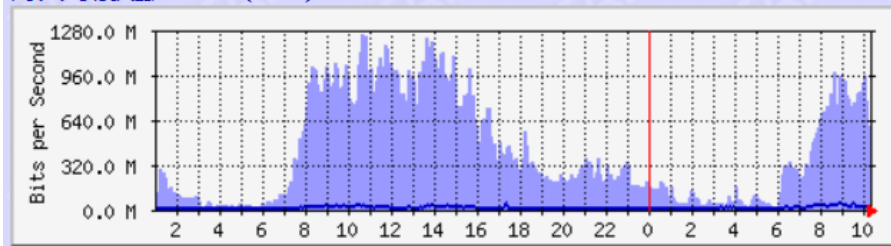
跨國海纜 往 TAnet (IPv4)



TAnet 往 Internet (IPv6 總流量)



跨國海纜 往 TAnet (IPv6)



Source:TANET

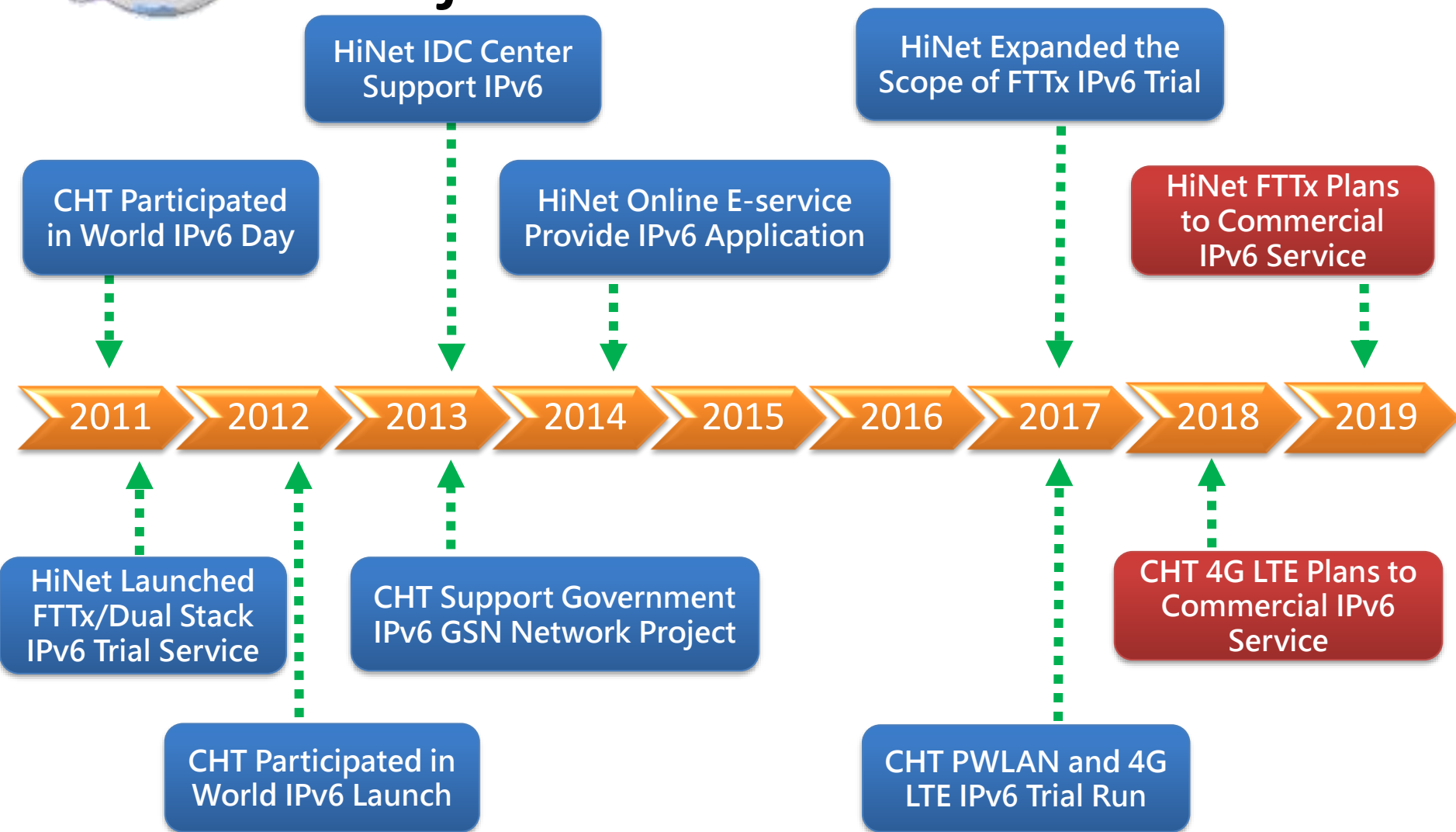


CHT IPv6 Deployment

- Major IPv6 Milestones
- IPv6 Deployment Roadmap
- IPv6 Testing Service (IPv6 Ready Logo)

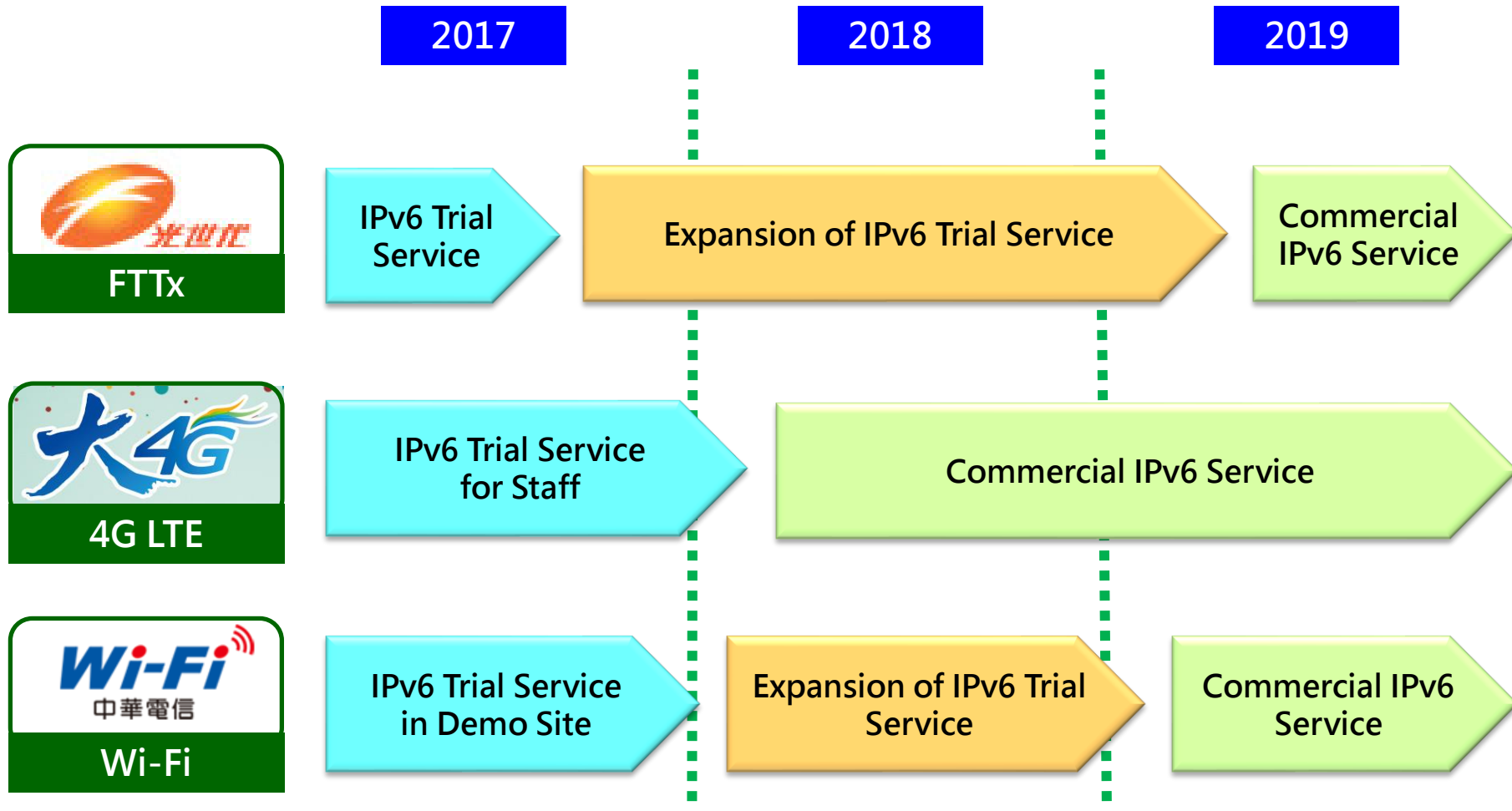


Major IPv6 Milestones





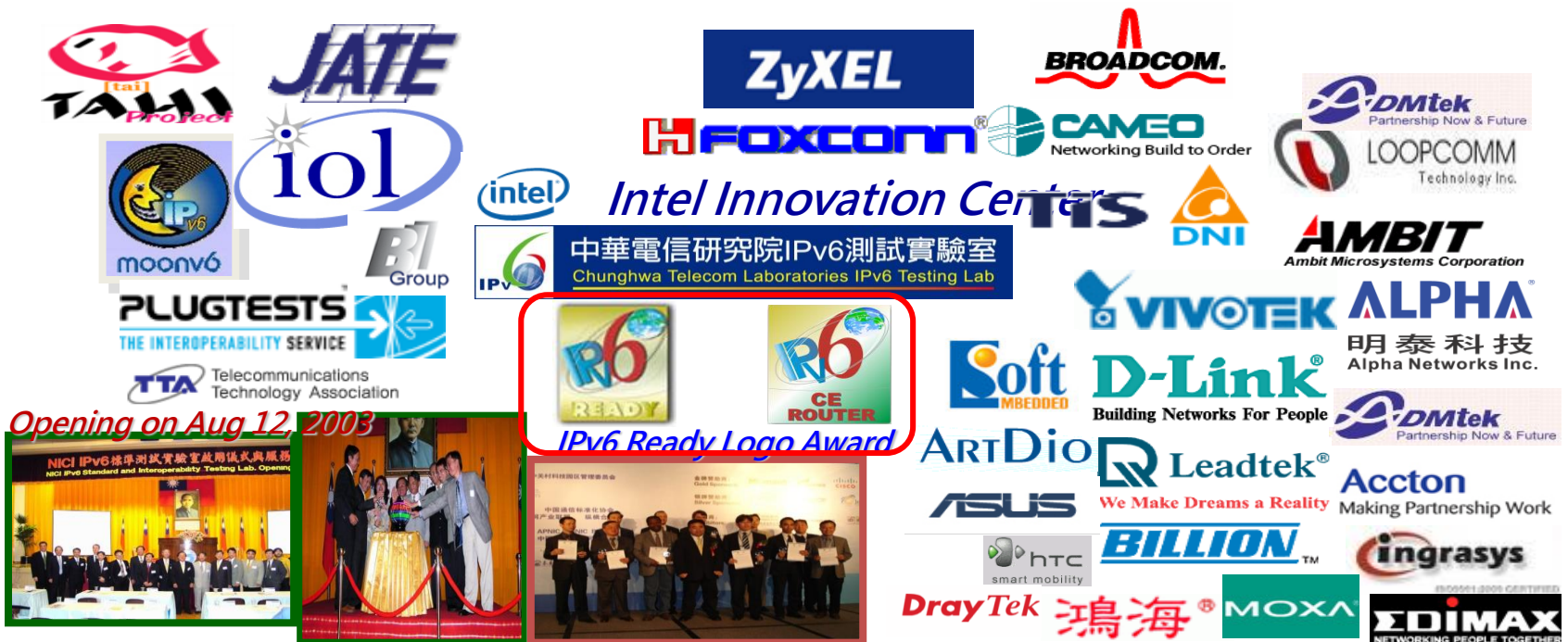
IPv6 Deployment Roadmap





IPv6 Testing Service in CHT-TL

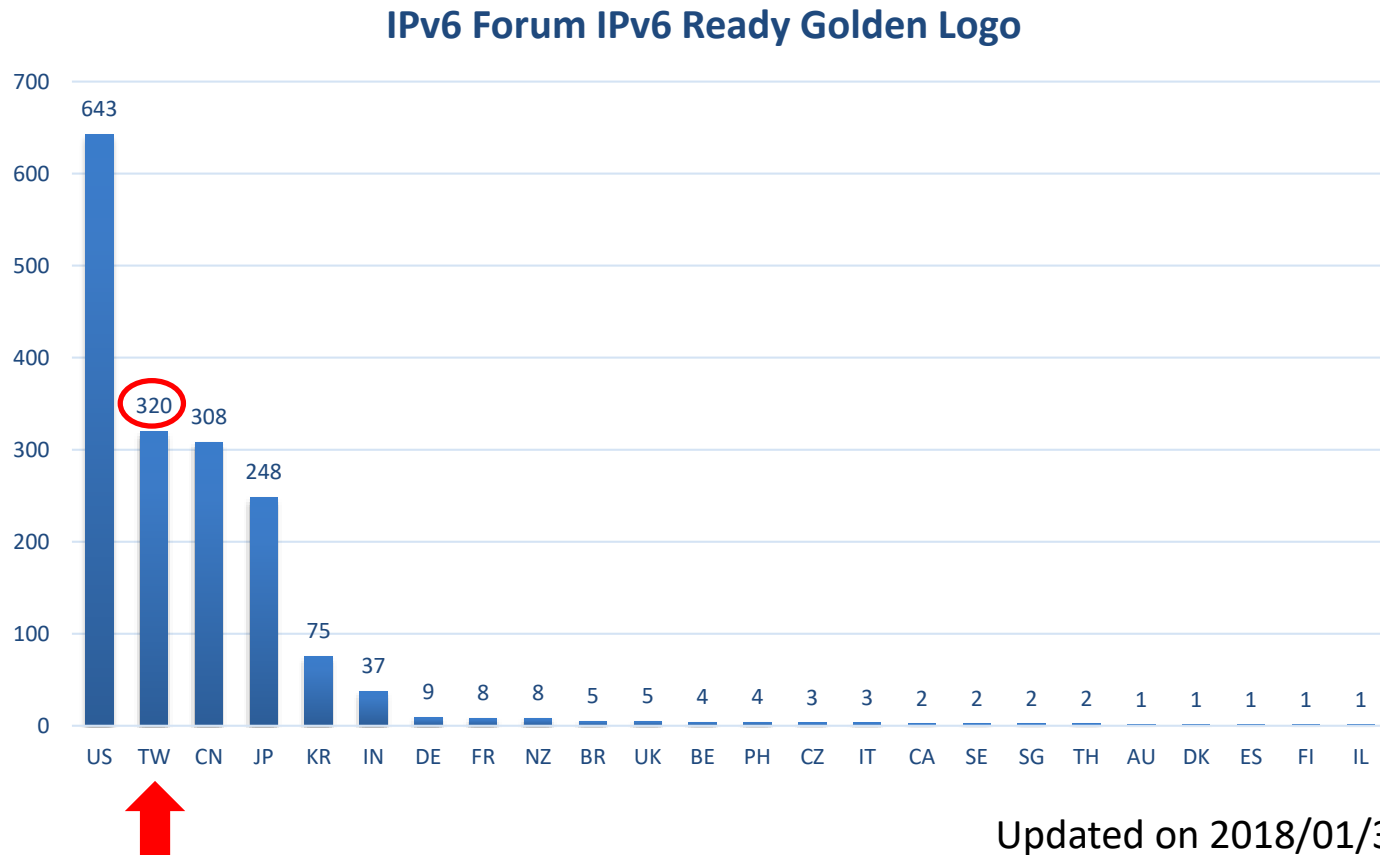
- CHT-TL (Chunghwa Telecom Laboratories, the R&D lab under Chunghwa Telecom)
 - Established in 2003, the IPv6 Ready Logo Accredited Lab in Taiwan
 - Test Capabilities Include : IPv6 Core 、IPSec 、DHCPv6 、SNMPv2C and CE Router





IPv6 Ready Logo

- A total of 1,693 products worldwide through the IPv6 Ready Logo certification, Taiwan accounted for about 18.9%

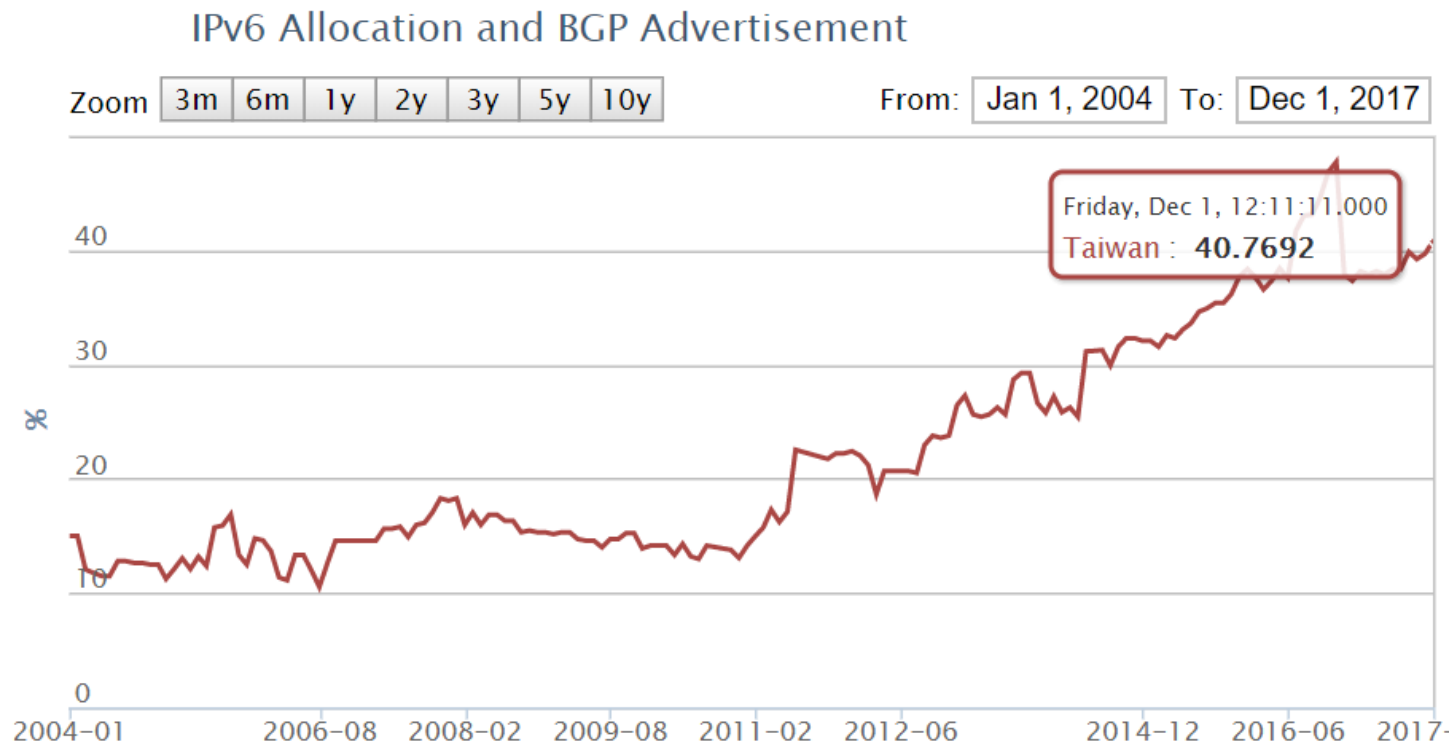


Updated on 2018/01/31



3 Common measurement criteria — IPv6 BGP Advertisement

- The ratio of IPv6 BGP advertisement in December, 2017 has arrived at 40.77%.

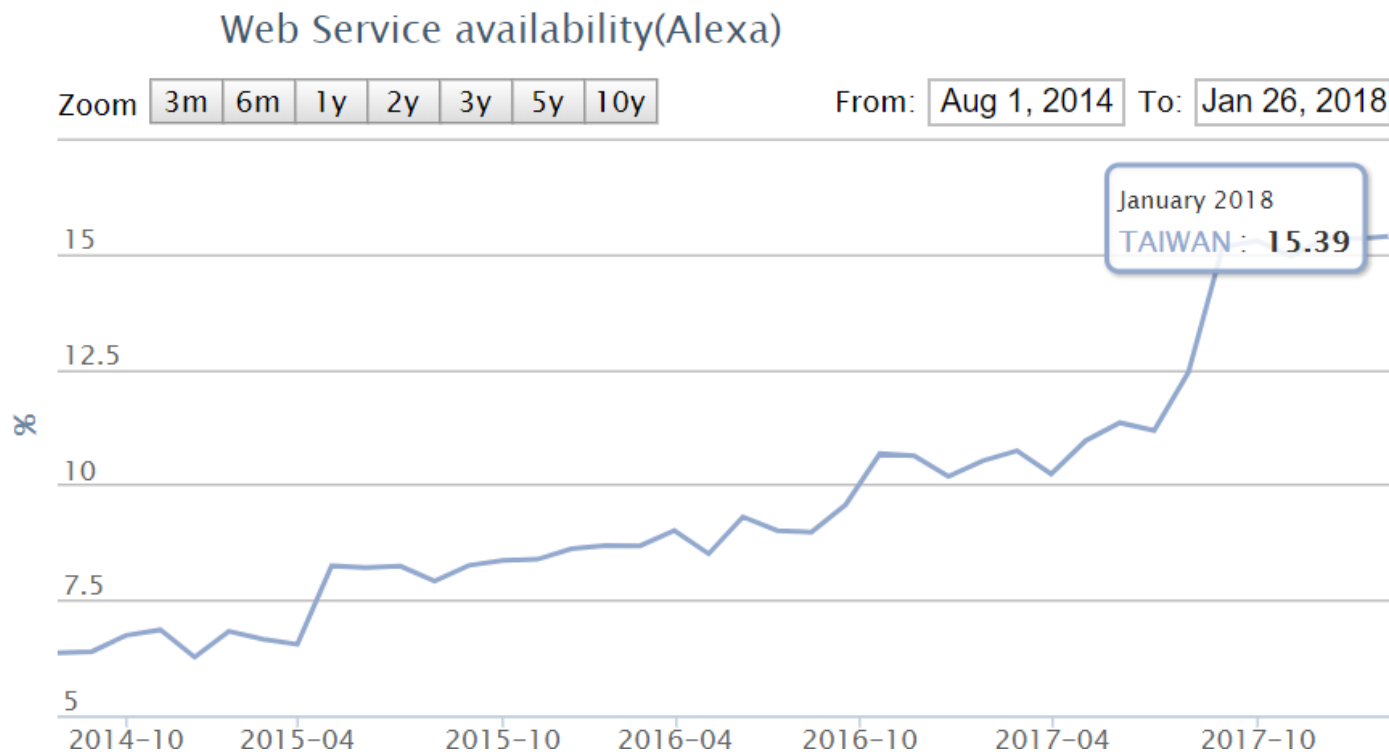




3 Common measurement criteria

— IPv6 Service Availability

- Data Collection from Alexa's top 1 million websites
- The ratio of IPv6 service availability in January, 2018 has arrived at 15.39%.

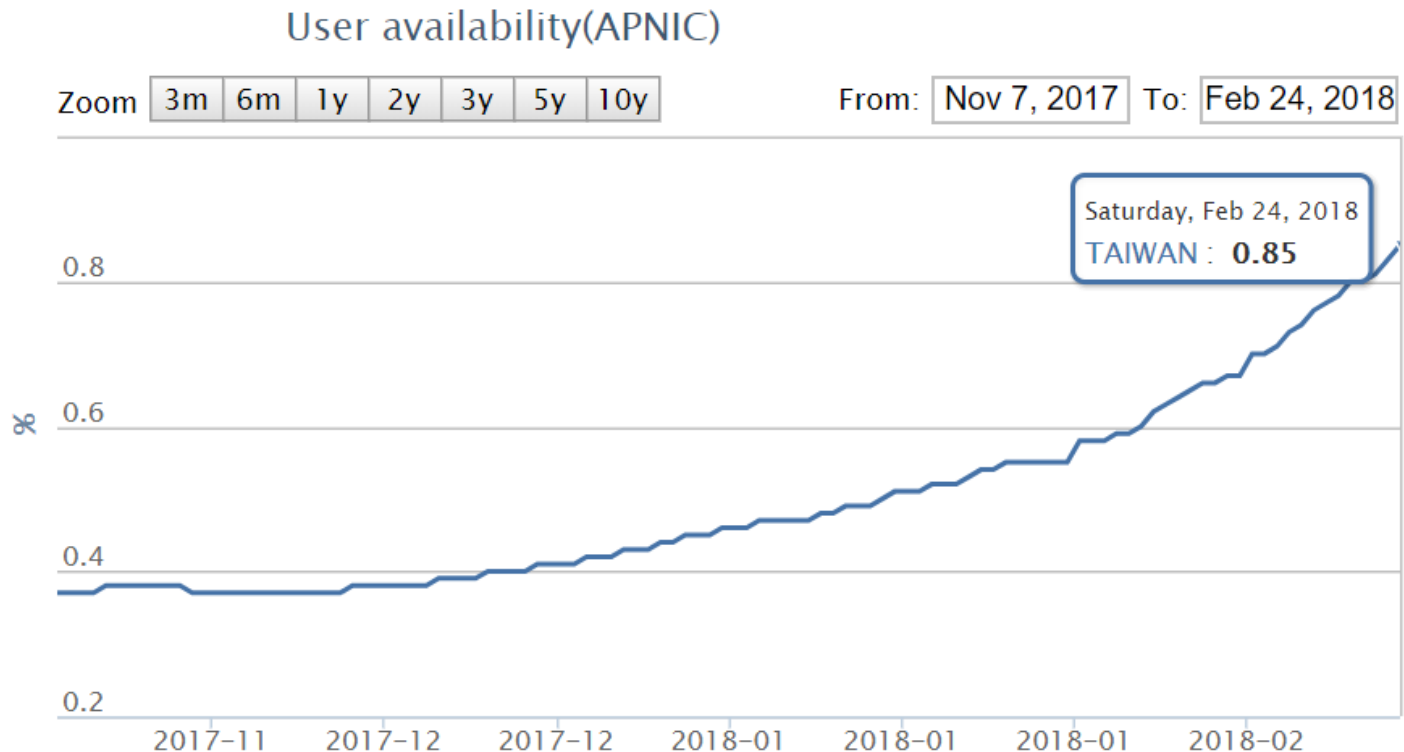




3 Common measurement criteria

— IPv6 User Availability

- The ratio of IPv6 user availability in February, 2018 is around 0.8%.





Conclusion

- The ratio of the three common measurement criteria, IPv6 allocation and BGP advertisement, service availability, and user availability steadily grow up in Taiwan.
- Chunghwa Telecom has done the trial service in 2017 and will provide 4G LTE commercial IPv6 service this year.