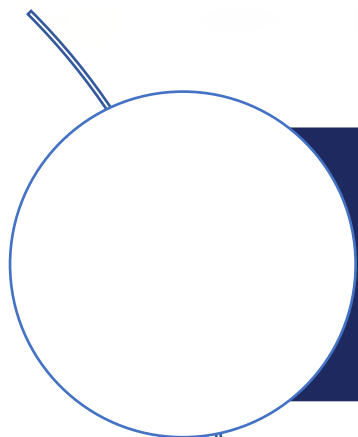




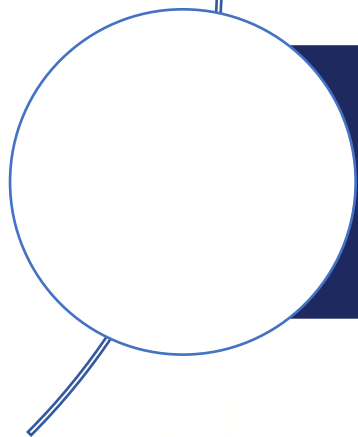
MINISTRY OF INFORMATION AND COMMUNICATIONS  
VIETNAM INTERNET NETWORK INFORMATION CENTER

# VNNIC's Update

Truong Khanh Huyen, Cooperation and Resources Management, VNNIC  
March, 2022



Internet Resources Statistics & Activities  
Update



Upcoming events

# I. INTERNET RESOURCES STATISTICS & ACTIVITIES UPDATE

## 1. IP ADDRESSES (IPv4, IPv6), ASN

❖ ASN: **454 ASNs**

Growth rate: **16%**

❖ IP member: **662 members**

Growth rate: **21%**

❖ IPv4 addresses: **16,131,840 addresses**

Growth rate: **0.41%**

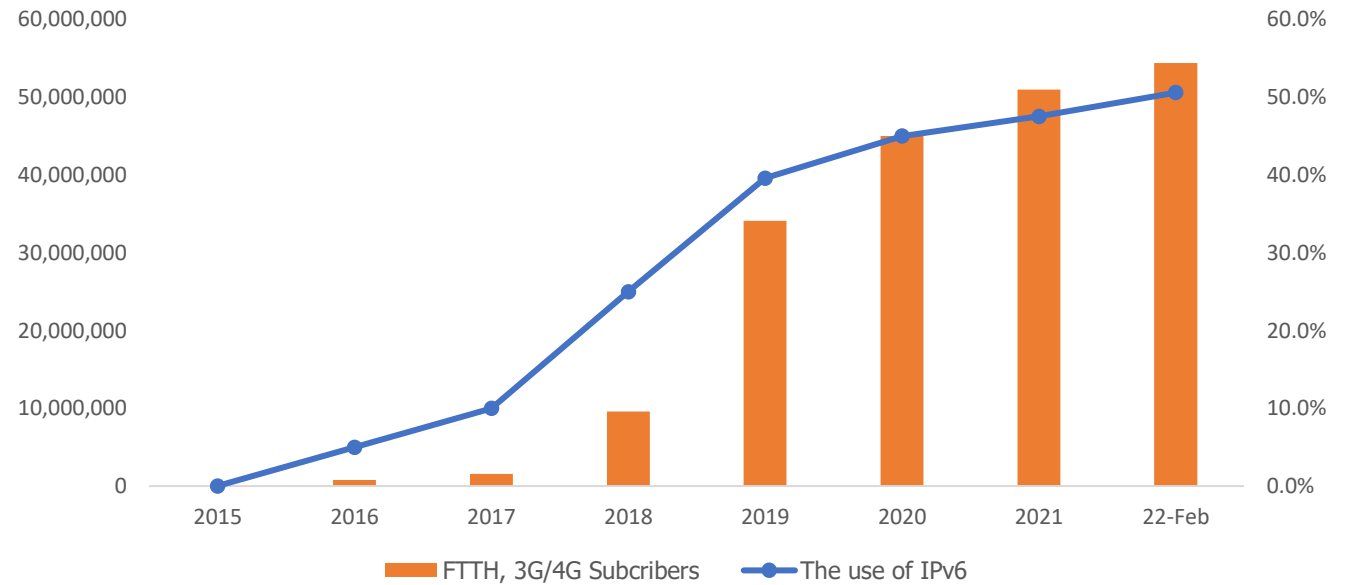
❖ IPv6 addresses: **202 blocks /32 and 178 blocks /48**

Growth rate: **0.41%**

❖ IPv6 Adoption rate: **50.60%**

**54,400,000 IPv6 subscribers** (FTTH, 3G/4G)

**17,790 “.vn” websites** enabled with IPv6



*IPv6 adoption growth in Viet Nam (by Feb, 2022)*

# I. INTERNET RESOURCES STATISTICS & ACTIVITIES UPDATE

## 2. IPv6 for Gov activities in 2021

### Highlights of IPv6 for Gov Programme in 2021

#### Number of issued IPv6 Deployment Plans

58

Ministries, branches, provinces/cities issued their own IPv6 deployment plan (increase by 57% compared to the number in 2020).

#### IPv6 Portals

19

Ministries, branches, provinces/cities were IPv6 ready (increase by 46% compared to the number in 2020)

#### IPv6 Training for government agencies



1,583

Engineers from 20 ministries, branches and 57 provinces/cities (increase twice times compared to the number in 2020)



### IPv6 Deployment amongst Ministries, Branches, Government Agencies

- ❖ 80% issued IPv6 Deployment Plan
- ❖ 91% provided IPv6 trainings
- ❖ 42% assigned their own IP addresses, ASNs
- ❖ 25% deployed IPv6 for their portal/websites

## 3. IPv6 Deployment objectives in 2022

- ❖ Viet Nam's IPv6 Adoption rate: 52%

### Government agencies

- ❖ 100% Provinces/Cities issue IPv6 Deployment Plan
- ❖ 50% Ministries and Branches deploy IPv6 for their networks, services

### Enterprises

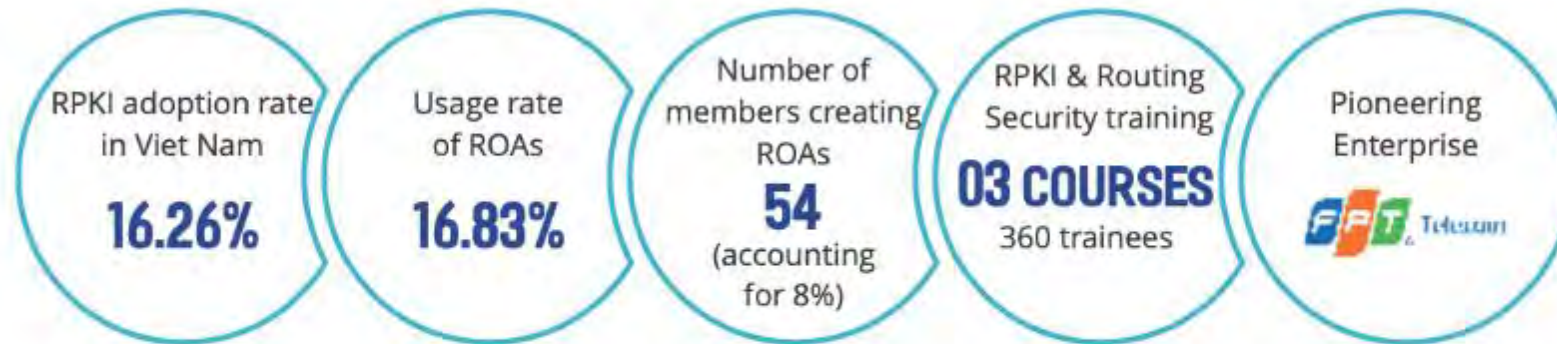
- ❖ Mobile Operators deploy IPv6 in 5G networks (September 2022)
- ❖ 60% mobile subscribers in Viet Nam provided IPv6 services

### Other promotions activities

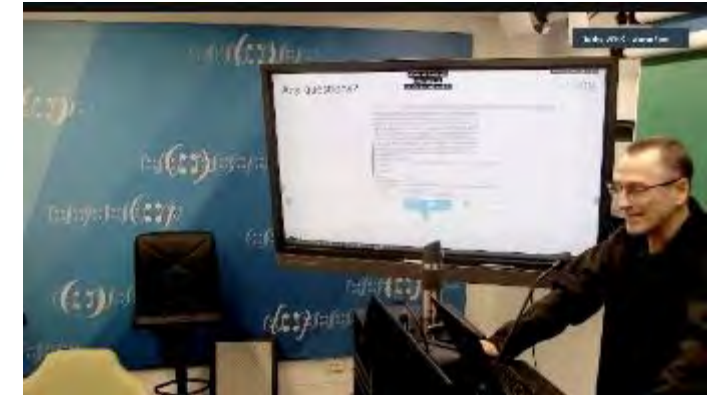
- ❖ Training (IPv6 for 5G, IoT, cloud, etc.,)
- ❖ Viet Nam's IPv6 Measurement map
- ❖ ....

# I. INTERNET RESOURCES STATISTICS & ACTIVITIES UPDATE

## 4. RESOURCE PUBLIC KEY INFRASTRUCTURE (RPKI)



**RPKI** – a public key infrastructure framework designed to secure Viet Nam Internet routing infrastructure.



Online Webinar on RPKI collaborated with APNIC on November, 2021

# I. INTERNET RESOURCES STATISTICS & ACTIVITIES UPDATE

## 5. Strengthen .VN DNS performance and security



### DEPLOYED DNS ROOT SERVER

M-ROOT  
K-ROOT

- Reduce domain query response time: at least 5 times
- Improve access speed of Internet services over “.vn” domain

## 6. Launched VNIX Marketplace

LOCAL PORT, GLOBAL MARKET



**VNIX Marketplace** is designed with the idea to enable VNIX members to have a neutral commercial platform to buy and sell right on the VNIX peering technical infrastructure.

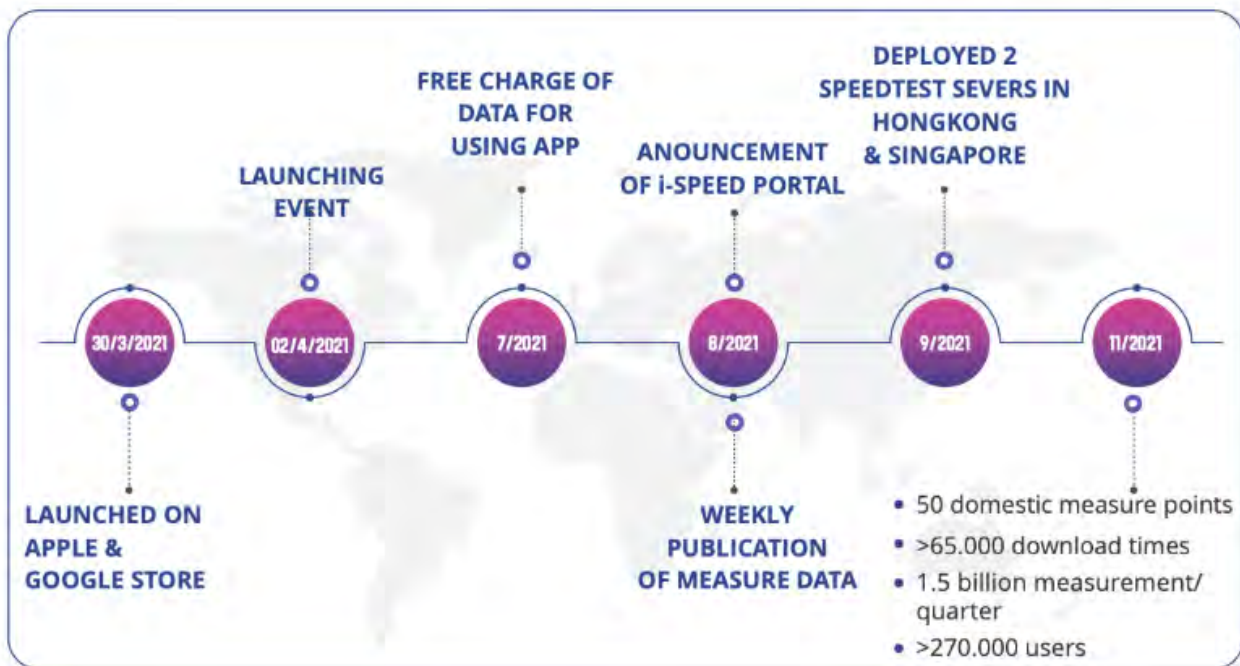
**VNIX Marketplace** allows VNIX members to buy and sell services to other VNIX members without having to deploy a new connection port.

# I. INTERNET RESOURCES STATISTICS & ACTIVITIES UPDATE

## 7. Free services for Internet community





i-Speed application



VNNIC INTERNET ACADEMY

Some outstanding training programs and courses on VNNIC Internet Academy in 2021:



 Number of online courses  
**13**  
 Number of attendees  
**1149**

 Number of webinars in 2021  
**12**



# I. INTERNET RESOURCES STATISTICS & ACTIVITIES UPDATE

## 8. Internet events for community



VNIX-NOG 2021 (September 2021)



IP Member Meeting (August 2021)



Supported ITU Digital World 2021 (November 2021)



Bringing Internet to the students – The future of the country



Co-organized Internet Day 2021 Event (December 2021)

# I. INTERNET RESOURCES STATISTICS & ACTIVITIES UPDATE

## 9. IPv6 Promotion activities in the region



VNNIC's representatives participated as honored speaker at some regional events, including Digital Around the World, ETSI's IPv6 events, etc.,



VNNIC support LANIC in drafting IPv6 Deployment Plan for Laos (June and November 2021)



MINISTRY OF INFORMATION AND COMMUNICATIONS  
VIET NAM INTERNET NETWORK INFORMATION CENTER

REPORT ON  
INTERNET, INTERNET RESOURCES IN VIET NAM  
2021



Annual Report with evolvement into  
Report on Internet, Internet resources in Viet Nam

<https://vnnic.vn/en/report-on-vietnam-internet-resources?lang=en>



<https://vnnic.vn>

## II. UPCOMING EVENTS

### 1. VNNIC Internet Conference (Da Nang City, June 2022)

Day 1-2	IPv6 Workshop for government agencies in the central region of Viet Nam	Youth Internet Governance (universities, colleagues in Da Nang city)	Peering & Routing Security (IP members in Viet Nam)	<b>Workshops</b>
Day 3	Plenary session: The future of Internet			<b>Conference</b>
	Session 1- Internet infrastructures, Peering, Routing Security & Emerging Technologies	Session 2- IPv6 for Gov	Session 3- ccTLD and online platforms, online services	

### 3. Trainings

- 07 training workshops on IPv6 Deployment
- 02 training workshops on RPKI

### 4. VNIX-NOG 2022 (Phu Quoc island, August, 2022)

### 2. OPM for Viet Nam's IP members (September, 2022)



ELEVATING VIETNAMESE BRANDS



Thank you !

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VIETNAM INTERNET NETWORK INFORMATION CENTER**

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