



**VIETNAM INTERNET NETWORK INFORMATION
CENTER (VNNIC)**

**REPORT ON
VIETNAM INTERNET
RESOURCES 2012**

November-2012

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15 YEARS OF INTERNET IN VIETNAM

On November 19th, 1997, Vietnam officially connected to the Internet, marking the start of an impressive development period of the Internet in Vietnam. As of the end of the 3rd quarter of 2012, the number of Vietnam's internet users reached 31,196,878, accounting for 35.49% of the population. In terms of internet population, Vietnam ranks 18th in the world's top 20 countries, 8th place in Asia and 3rd place in ASEAN. The number of Vietnam's internet users has increased more than 15 times compared with that of 2000¹.

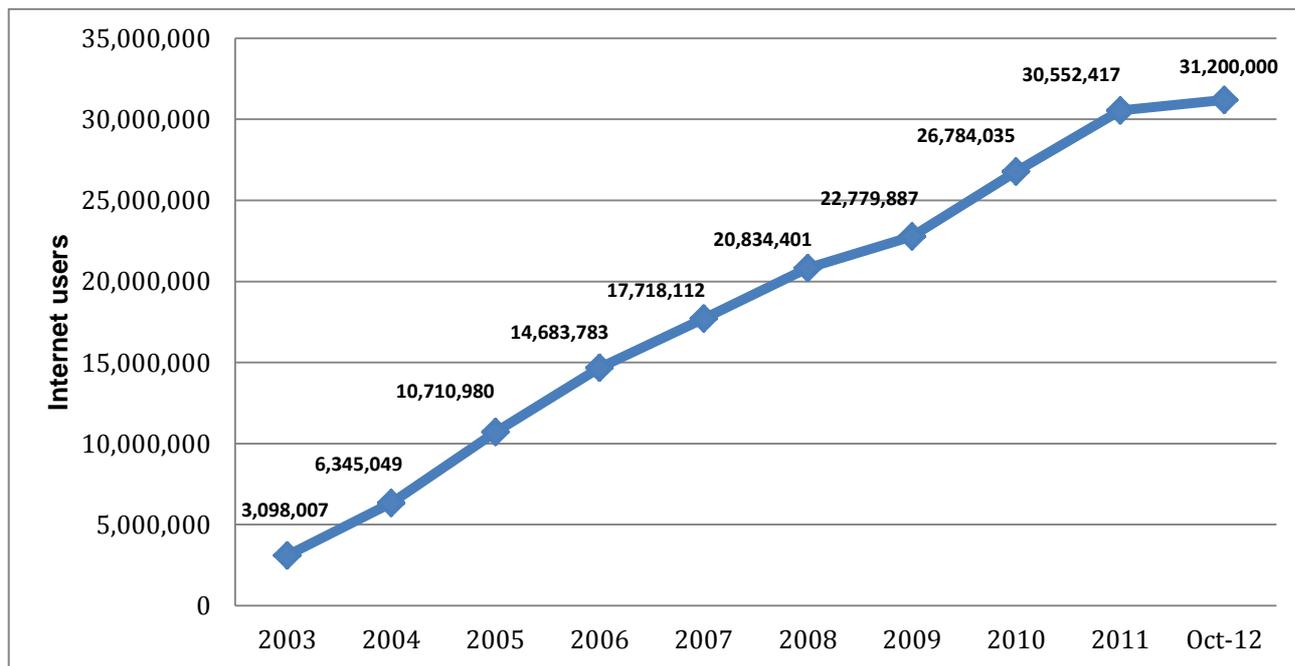


Figure 1. Number of Vietnam's internet users

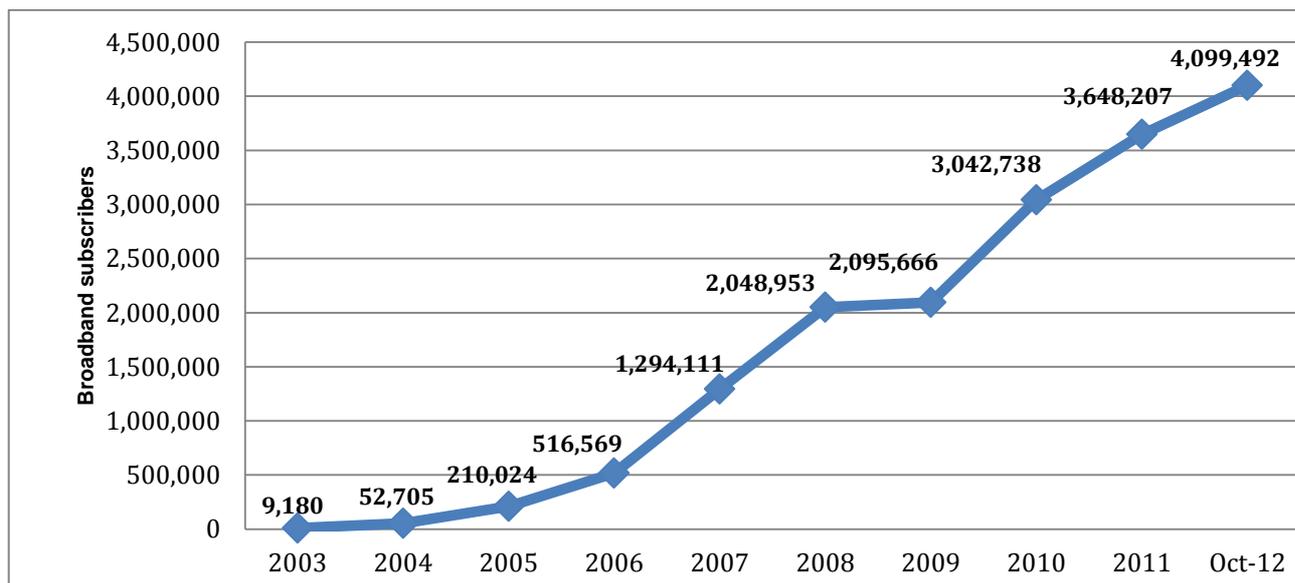


Figure 2. Number of Vietnam's broadband internet subscribers

¹ Source: Vietnam Internet Network Information Center (VNNIC): <http://www.internetstatistics.vn>

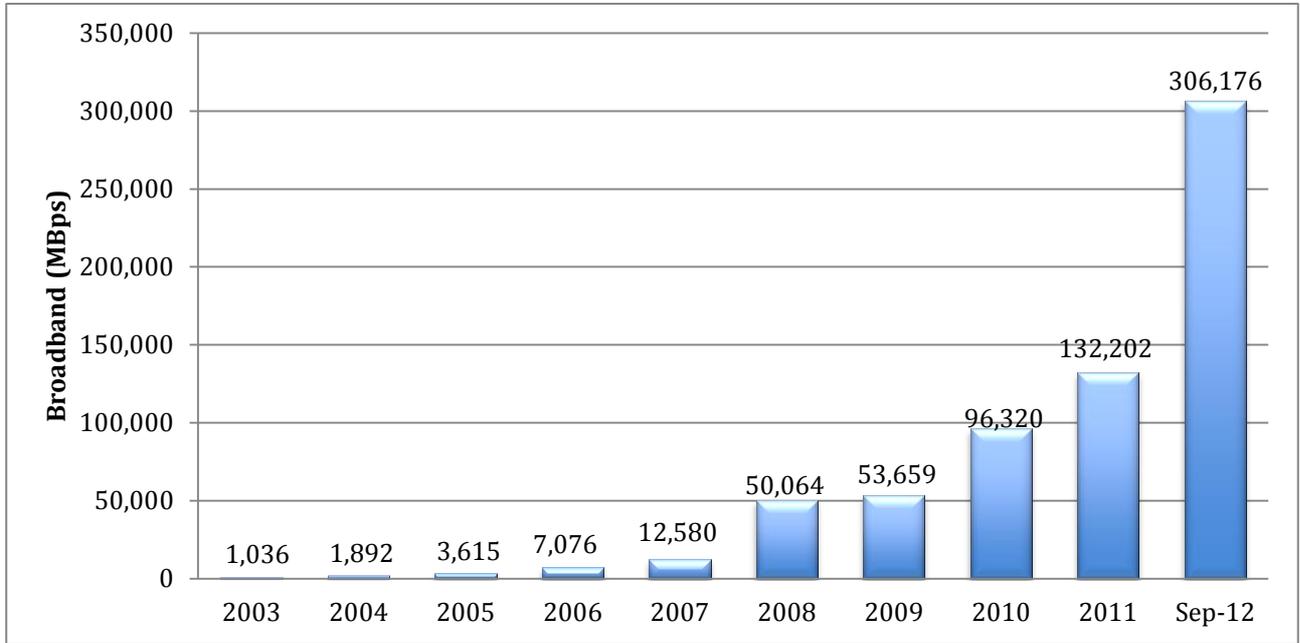


Figure 3. Total International connection bandwidth of Vietnam

The booming of the Internet in Vietnam is the result of the development in many areas including Internet resources (domain name, IP address, ASN) which are core factors to foster Internet development.

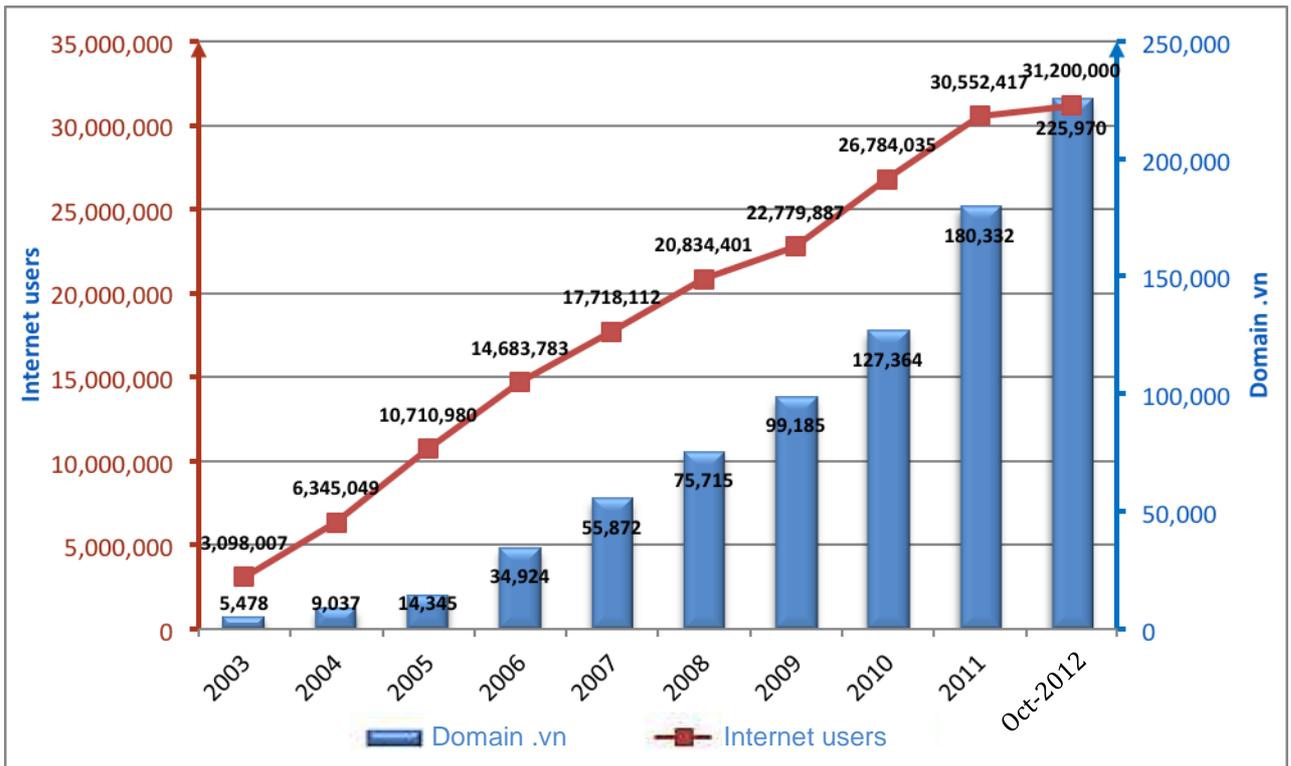


Figure 4. Internet users vs. ccTLD '.vn'

VIETNAM INTERNET RESOURCES

During the past 15 years, along with the development of the Internet in Vietnam, internet resources have grown considerably.

ccTLD '.vn'

- As of October 2012, the number of '.vn' domain names reached 225,970. That is to say, '.vn' domain names have grown at an average annual rate of 172 %.
- In terms of the number of registrations, '.vn' is the largest ccTLD in ASEAN.

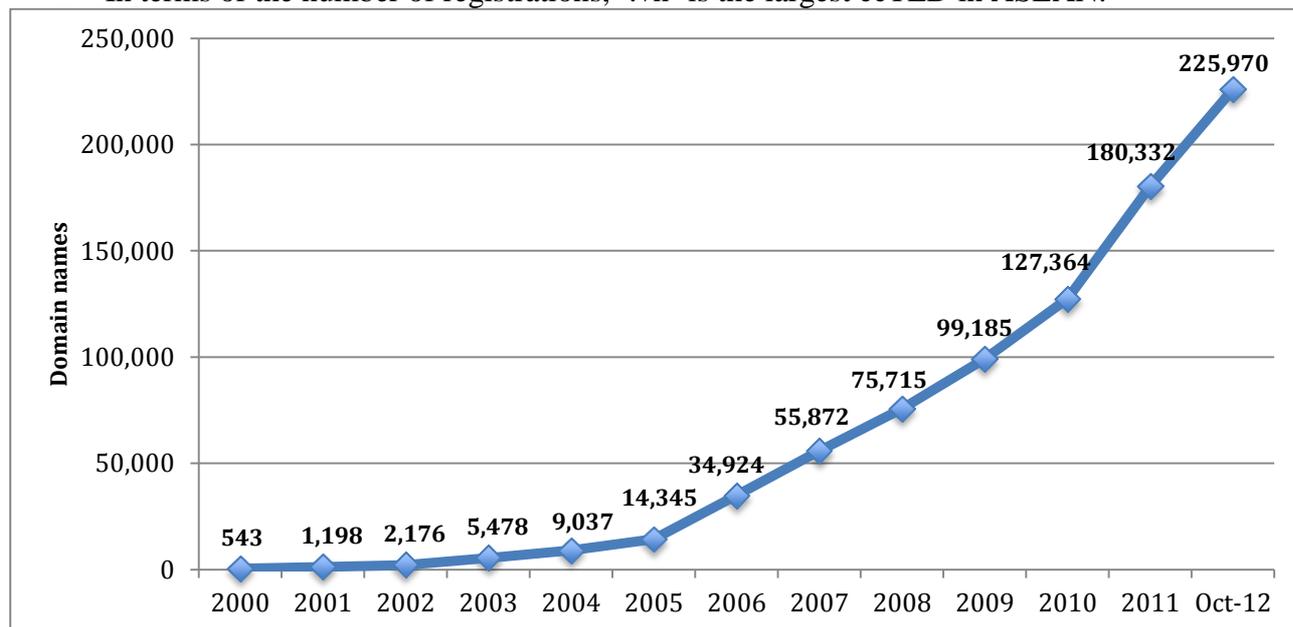


Figure 5. Total number of '.vn' domain names

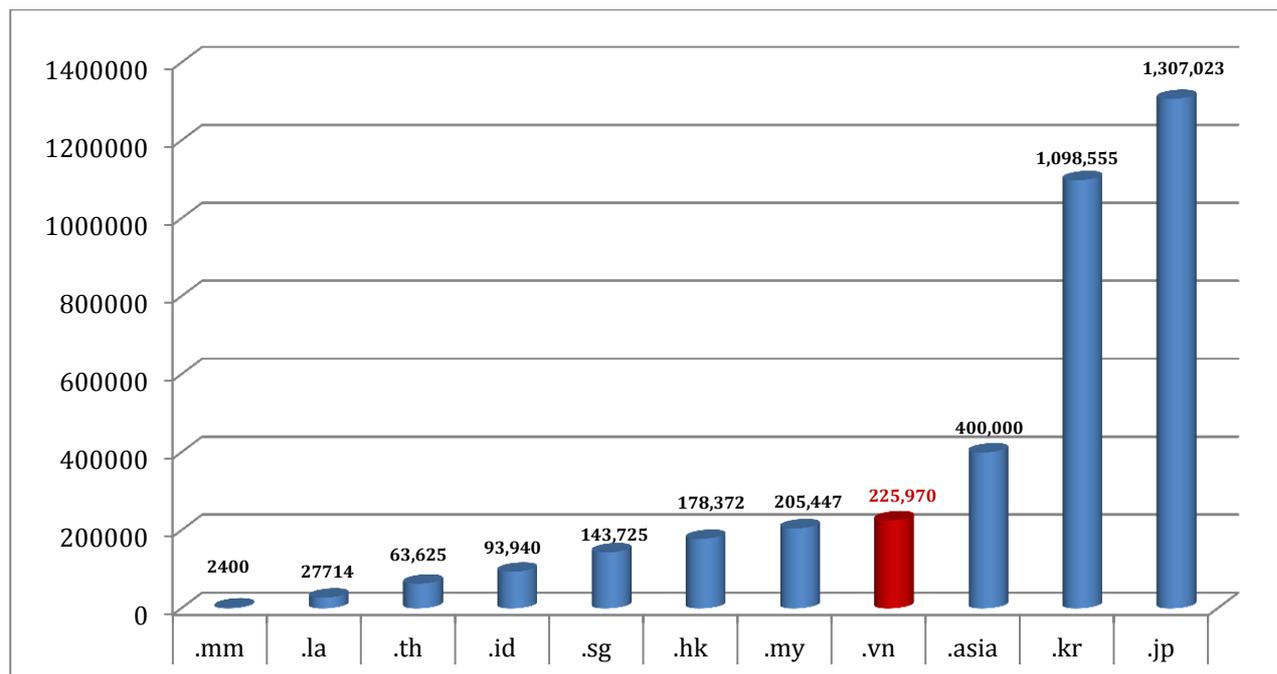


Figure 6. The largest country-code top level domains in ASEAN

(Source: www.all.in.th; www.sgnic.sg; www.hkdnr.hk; www.asiaregistry.com; www.mvnic.net; www.statdom.ru)

IPv4 address

Over the past few years, the number of allocated IPv4 addresses in Vietnam has significantly grown. By October 2012, Vietnam witnessed an impressive number of IPv4 addresses, reaching 15,549,184 from the number of 16,896 in 2000.

Vietnam ranks 25th in the world, 8th in Asia and 2nd in ASEAN for the number of IPv4 addresses.

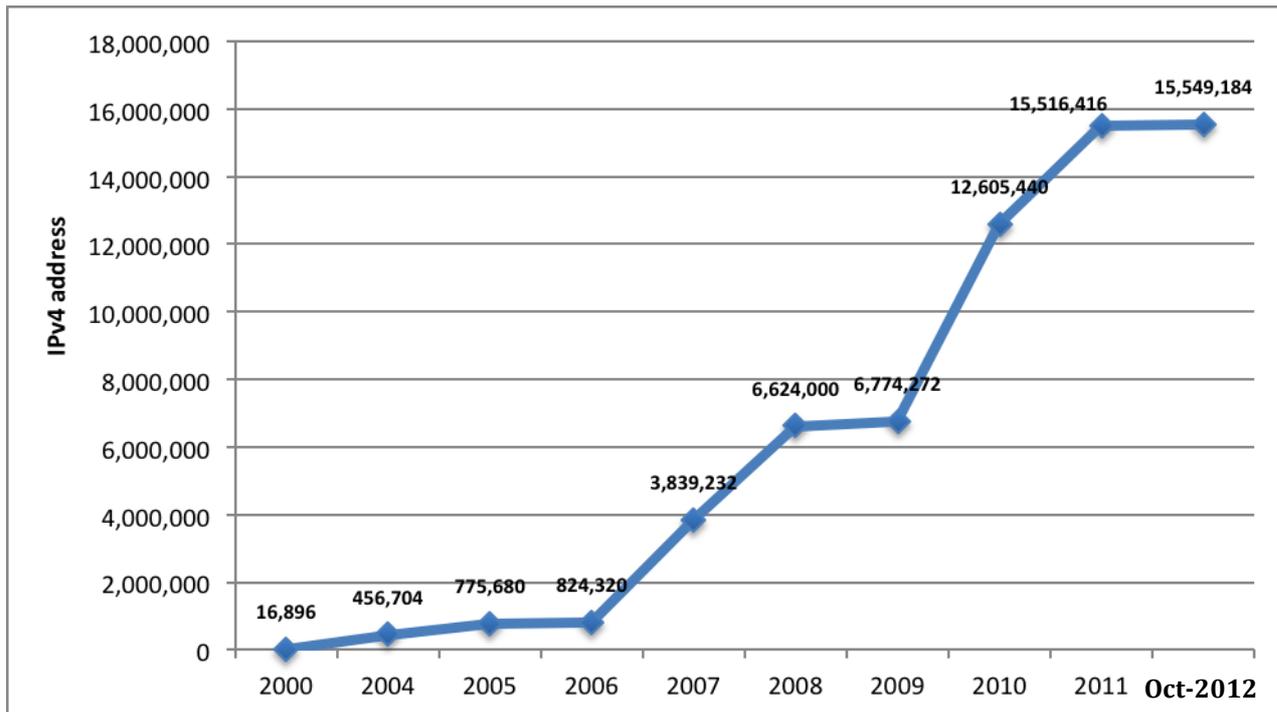


Figure 7. IPv4 address growth

Ranked 2nd in ASEAN for the number of IPv4 addresses

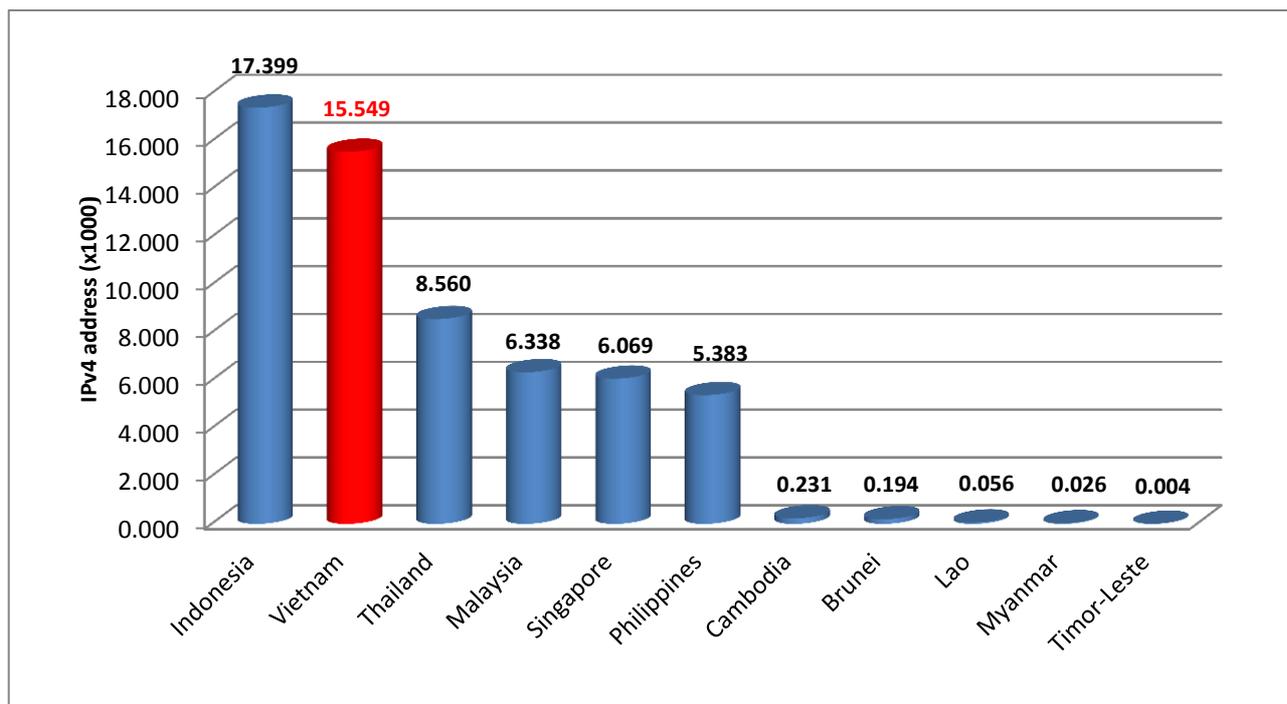


Figure 8. Number of IPv4 addresses in ASEAN countries (Source: www.bgpexpert.com)

Ranked 8th in Asia for the number of IPv4 addresses:

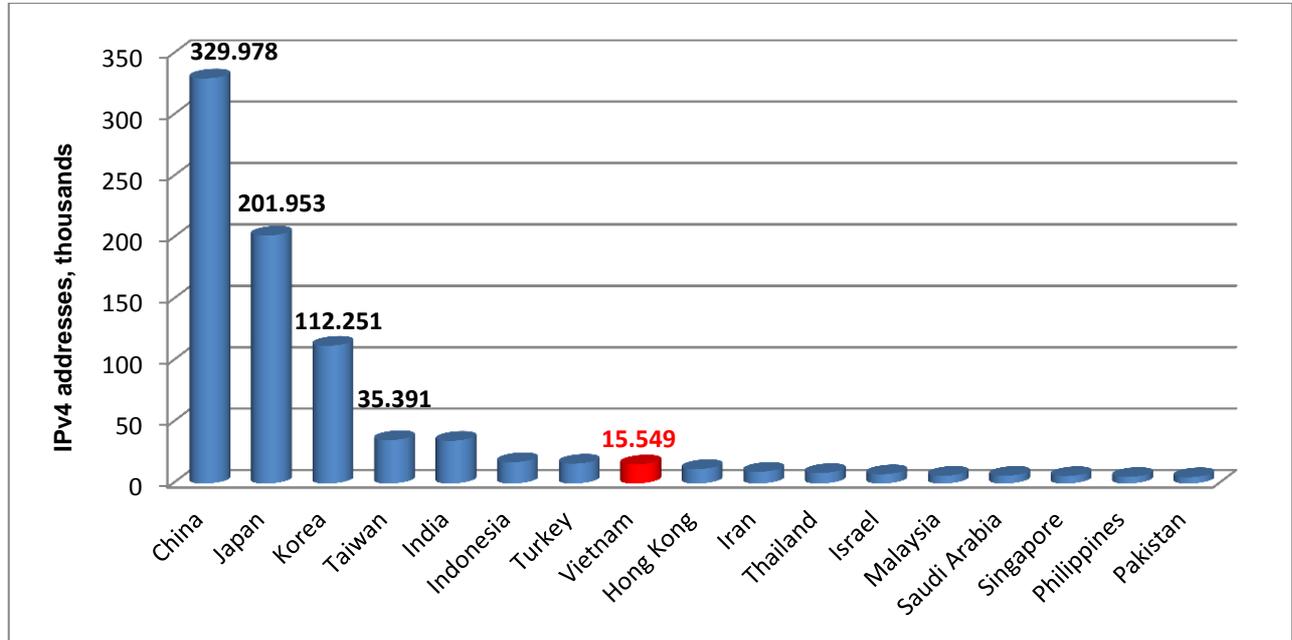


Figure 9. Ranked 8th in Asia for the number of IPv4 addresses
(Source: www.bgpexpert.com)

IPv6 address

- IPv4 is exhausted. Transition to IPv6 is inevitable.
- The first IPv6 block was allocated to Vietnam in 2004.
- As of October 2012, there were totally 32 IPv6 blocks allocated to Vietnam.

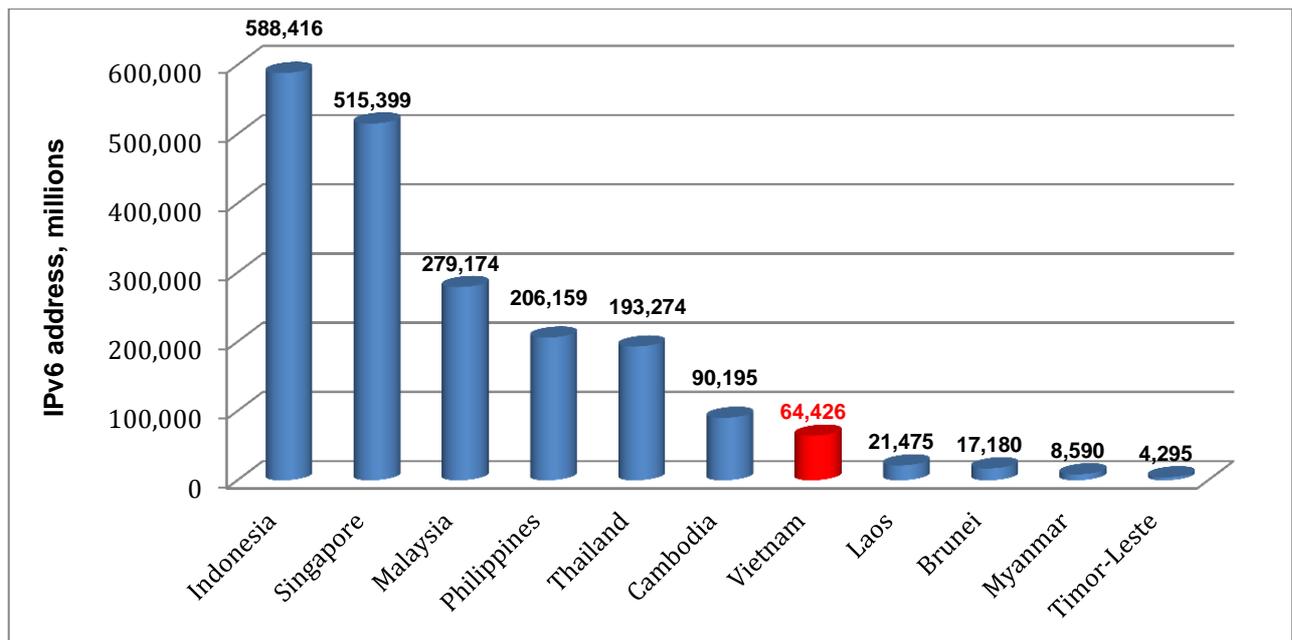


Figure 10. The number of IPv6 addresses in ASEAN
(Source: www.bgpexpert.com)

Autonomous System Number (ASN)

- As of October 2012, there were 138 ASNs which were assigned by VNNIC to Vietnamese organizations and companies.

VIETNAM COUNTRY CODE TOP LEVEL DOMAIN NAME (ccTLD) ‘.vn’

- On November 19th, 1997, Vietnam was officially connected to the Internet.
- On December 1st, 1997, the first ‘.vn’ domain name “**VISTA.GOV.VN**” was registered.
- ‘.vn’ domain names have grown at an average annual rate of 172 % and have become the largest ccTLD in ASEAN.

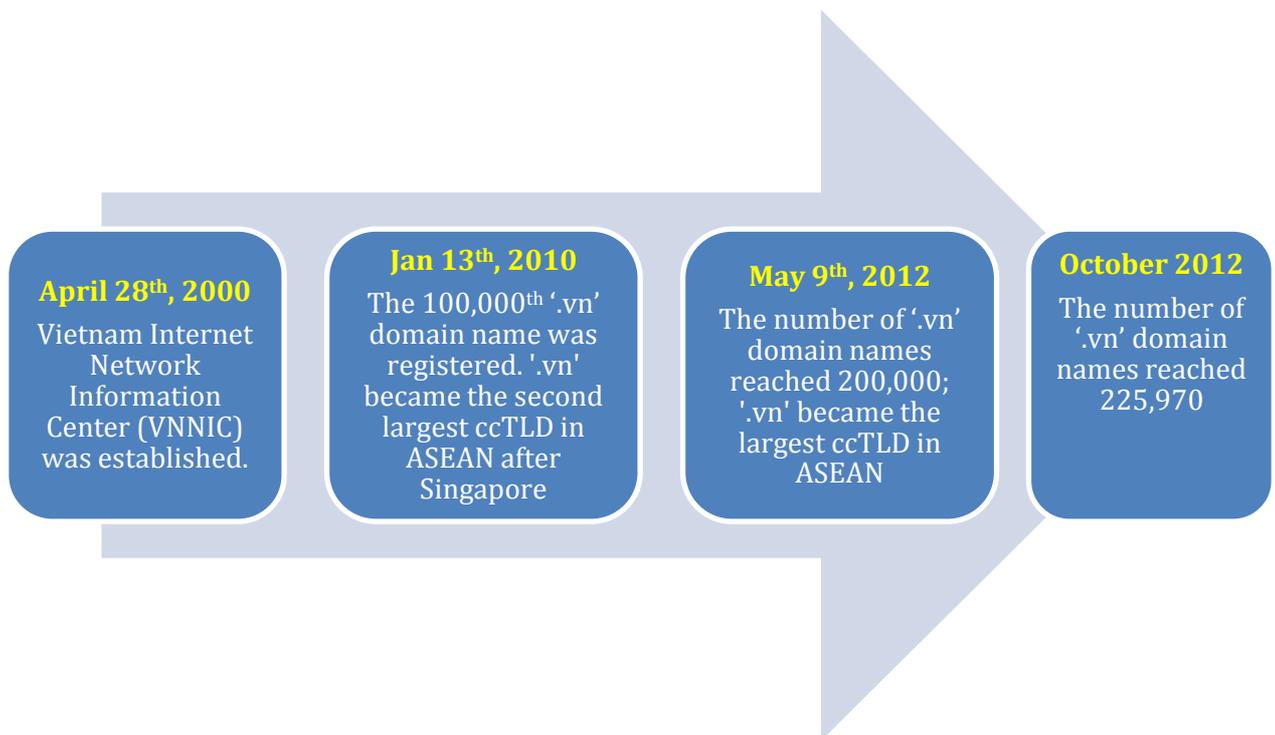


Figure 11. Milestones of ccTLD ‘.VN’

Growth of ‘.vn’ ccTLD

Management policies have been being improved continuously, creating a number of strong momenta for the development of ‘.vn’ domain names:

- In 2003, the first ‘.vn’ registrar (Hi-tek Co.) was accredited by VNNIC. The number of new registered domain names reached 3302 in 2003, increasing by 337% compared with that of the previous year.
- On August 15th, 2006, ‘.vn’ second level domain name were opened for public registration. The number of new registrations was 12,163 in 2006, doubling the total number of ‘.vn’ domain names in the previous period.
- On January 10th, 2011, the Circular No. 189/2010/TT-BTC Ministry of Finance on ‘.vn’ domain name registration and renewal fee came into effect, according to which, the fee decreased by an average of 30%. The number of new registrations was 80,246 in 2011, increasing nearly double against that of the previous year.

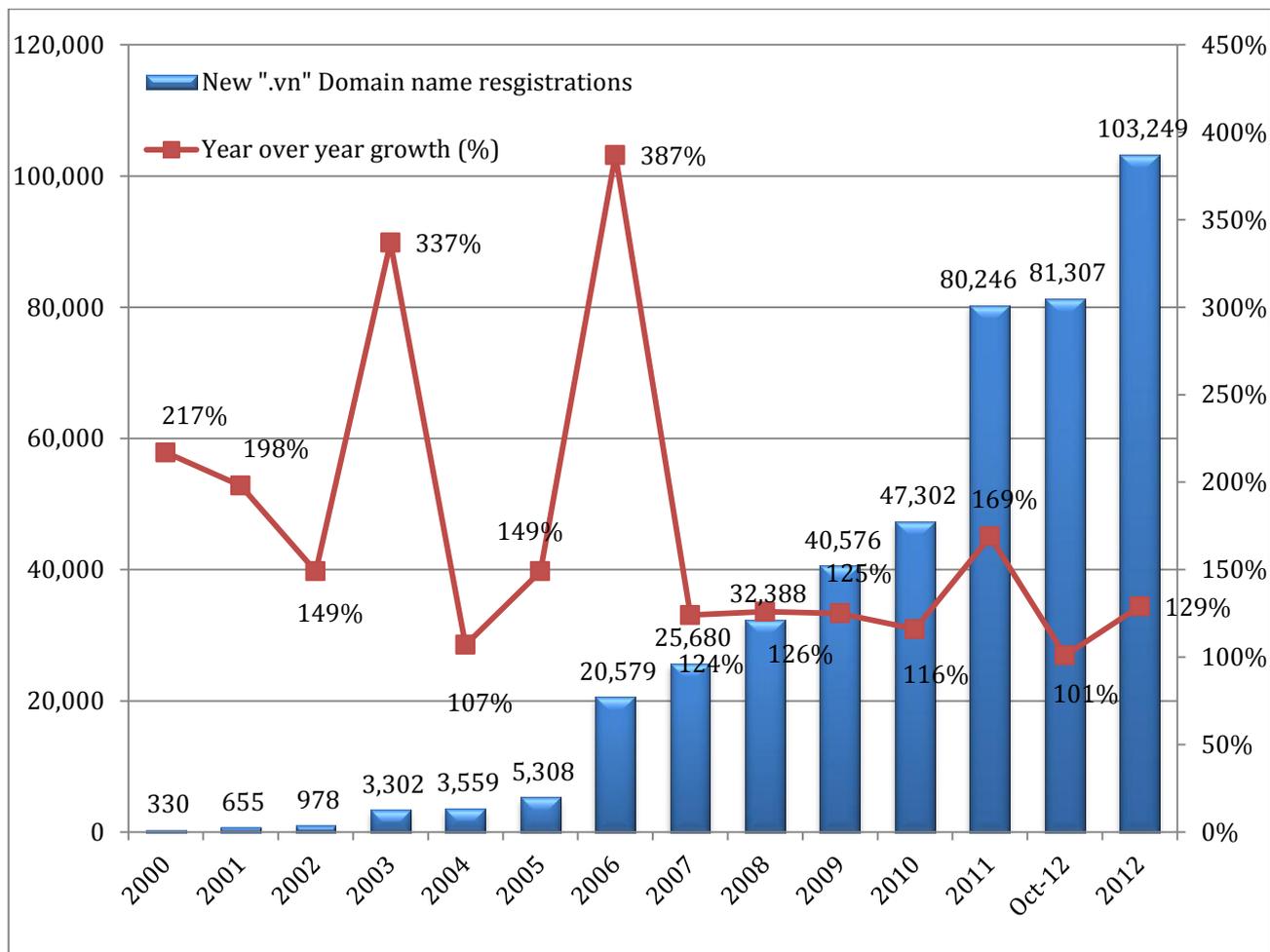


Figure 12. Number of new registrations year by year

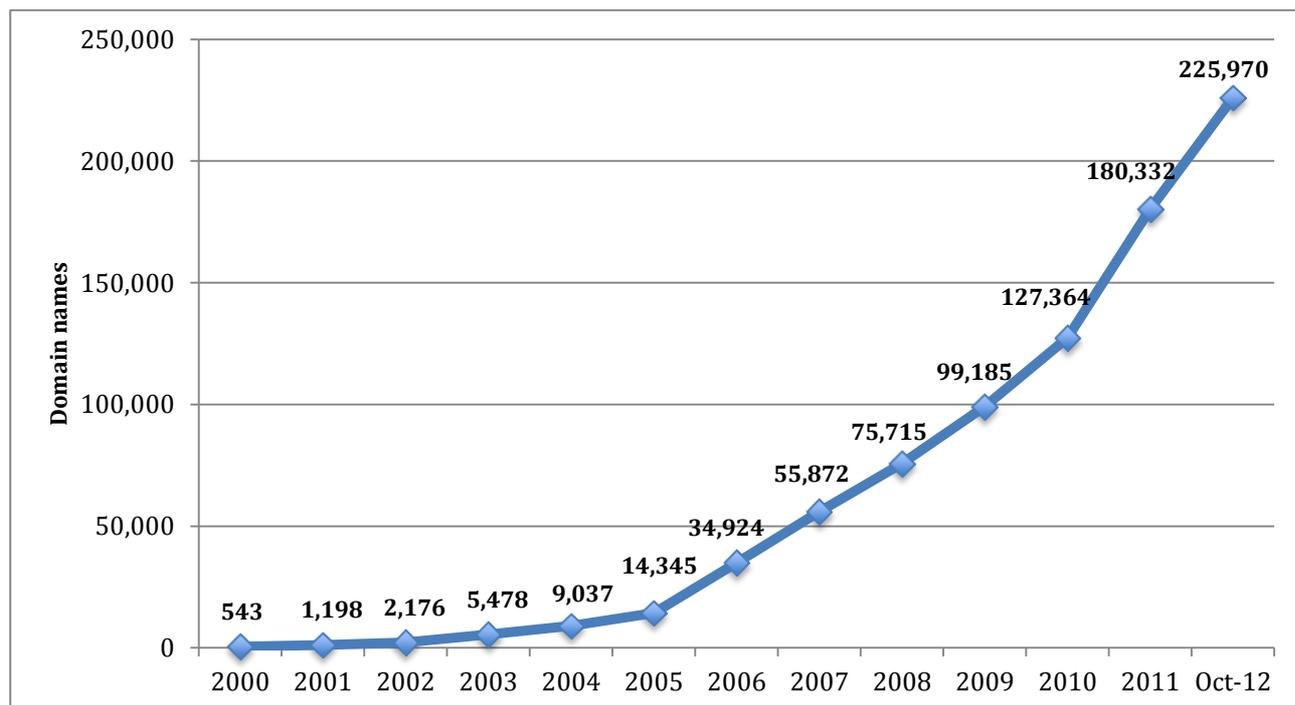


Figure 13. Number of renewals '.vn' domain name year by year

Advantages of ccTLD '.vn'

- Being protected by Vietnamese laws, registrants are fully guaranteed on their rights of using the registered domains.
- Being served by a reliable and safe nationwide and worldwide '.vn' Domain Name System (DNS), '.vn' domain names always have faster responses, even in the case of international connections breakages.

ccTLD '.vn' life cycle:

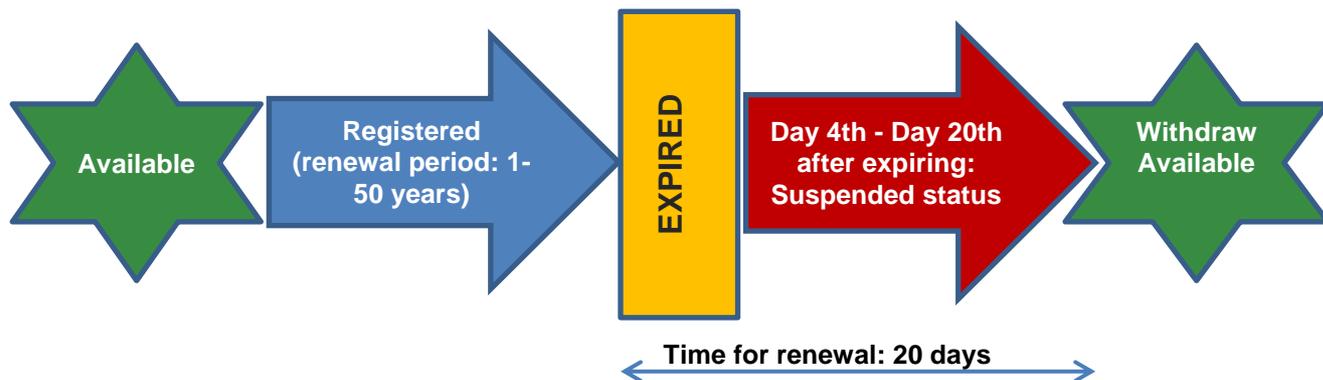


Figure 14. ccTLD '.vn' domain name life cycle

Registered '.vn' domain name breakdown by category:

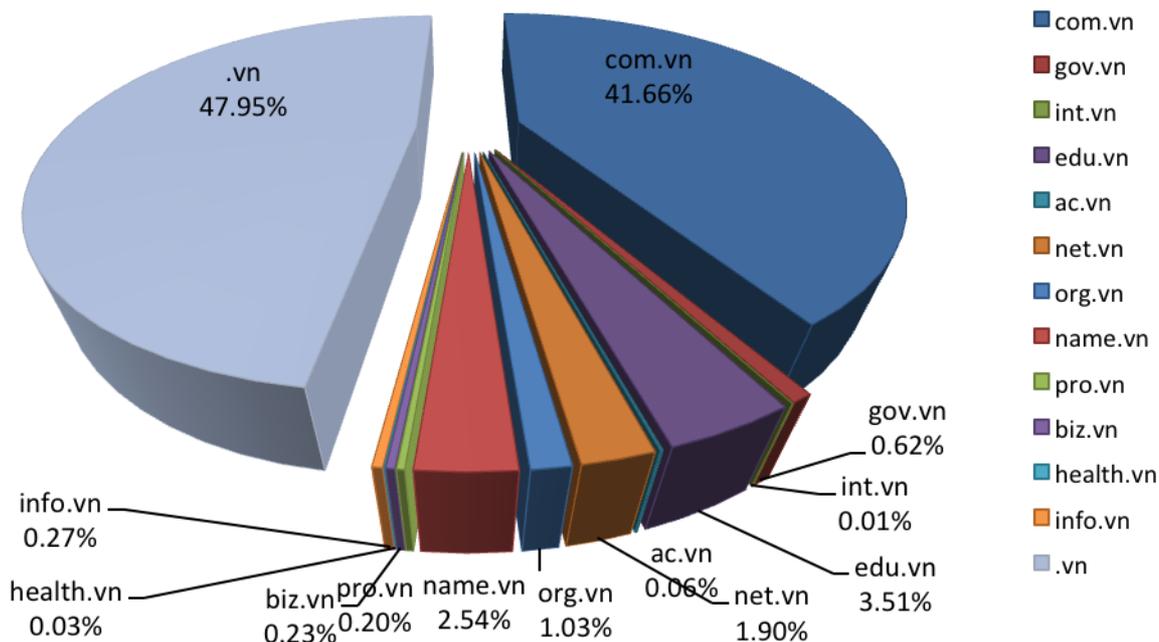


Figure 15. Registered '.vn' domain name breakdown by category

Registered domain name breakdown by registrant:

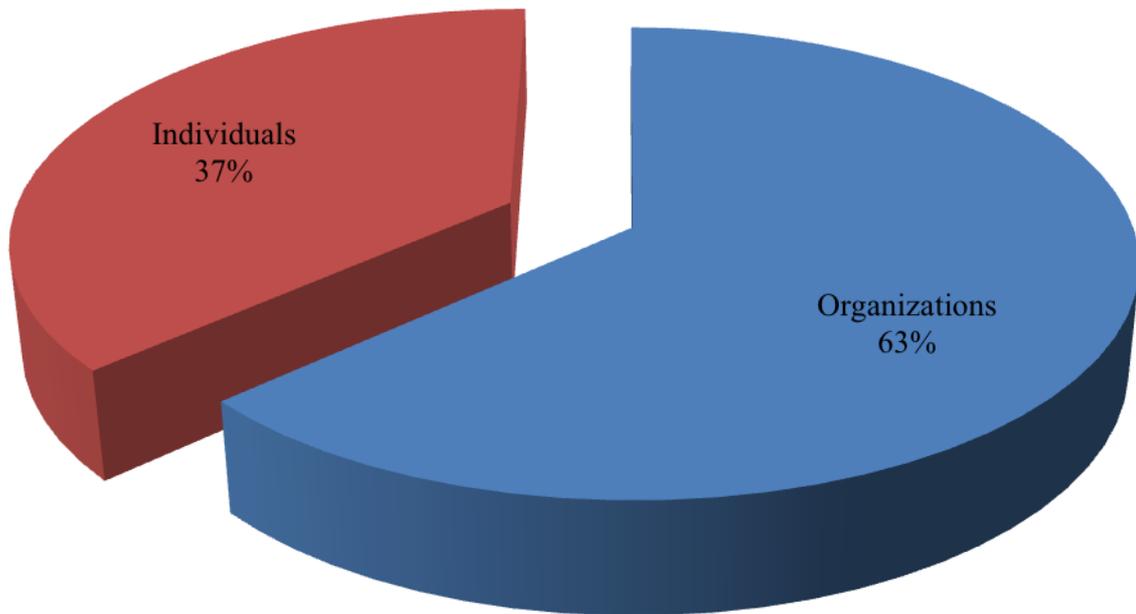


Figure 16. Registered domain name breakdown by registrant

Registered domain name breakdown by geographical areas:

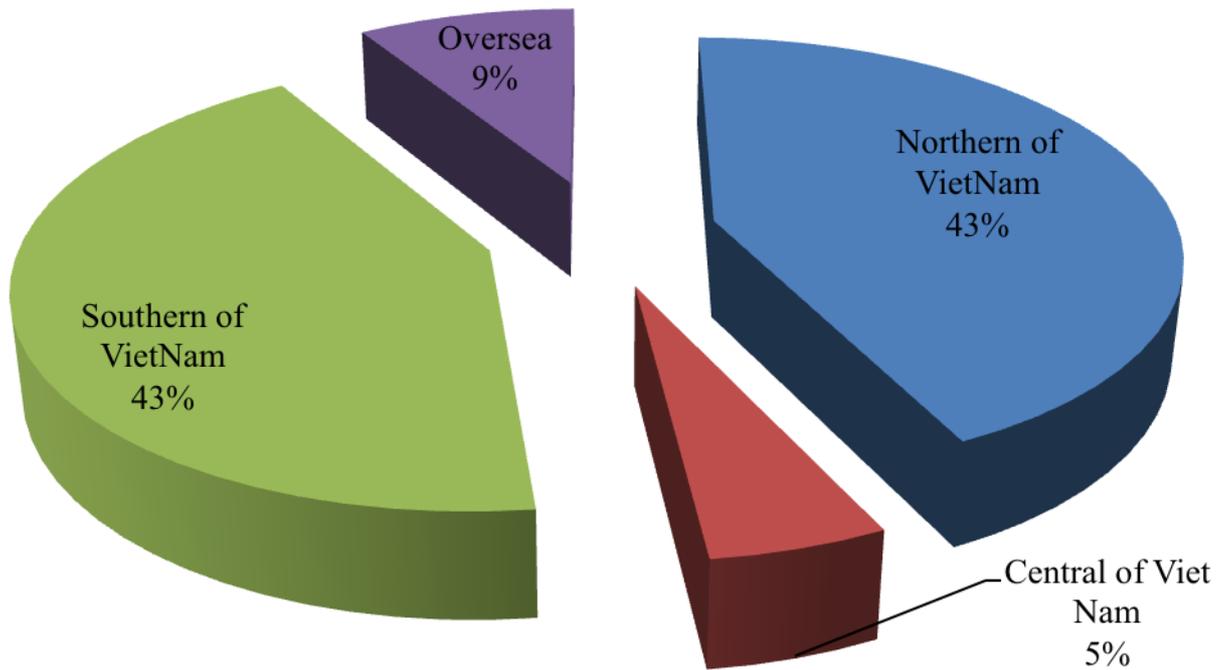


Figure 17. Registered domain name breakdown by geographical areas

Domain name length in '.vn':

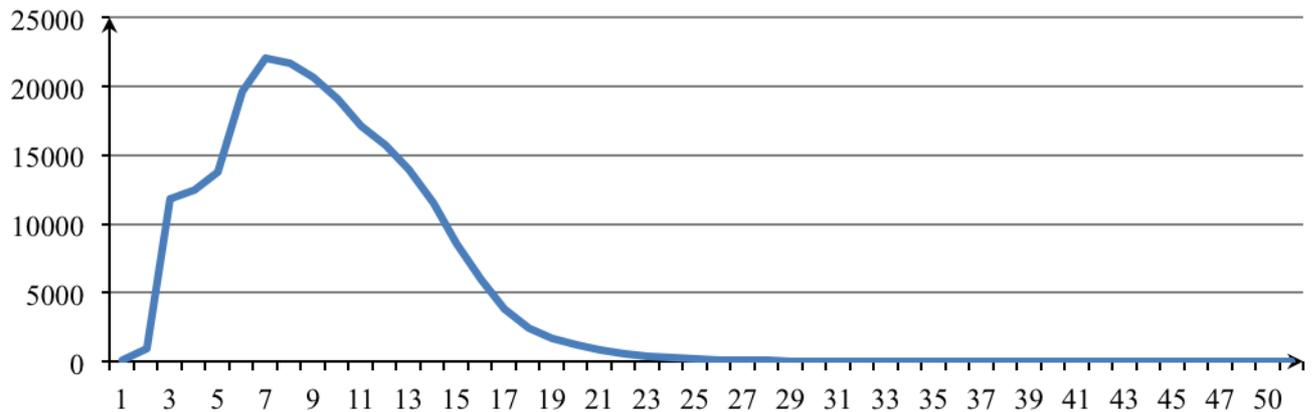


Figure 18. Domain name length in '.vn'

The average domain name length in '.vn' is 7 characters, while an average length of .com is 13.3, .uk is 13.84, .fr is 12.7, .ru is 9.3 ... '.vn' is considerably shorter than many popular gTLDs and ccTLDs.

Domain name length and renewal rate

Domain name length	Renewal Ratio
1, 2 characters (third level domain)	100%
3 characters	>50%
4 characters	30%
>10 characters	<10%

Loyalty and age of domain names

- In 1997, the first '.vn' domain name was registered and maintained from then on.
- The longest time of maintenance of an '.vn' domain name in the system is 16 years.

The age of domain names:

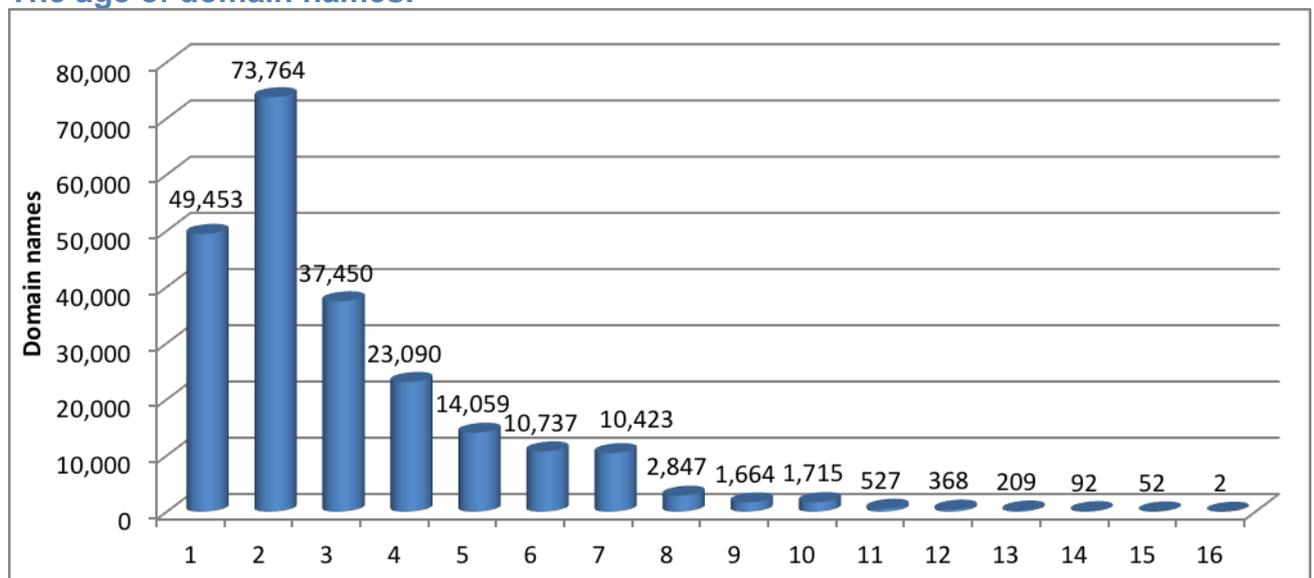


Figure 19. Age of .vn domain names

Domain names with more than 2 year maintenance have high stability and low withdrawal ratio.

Length of registration

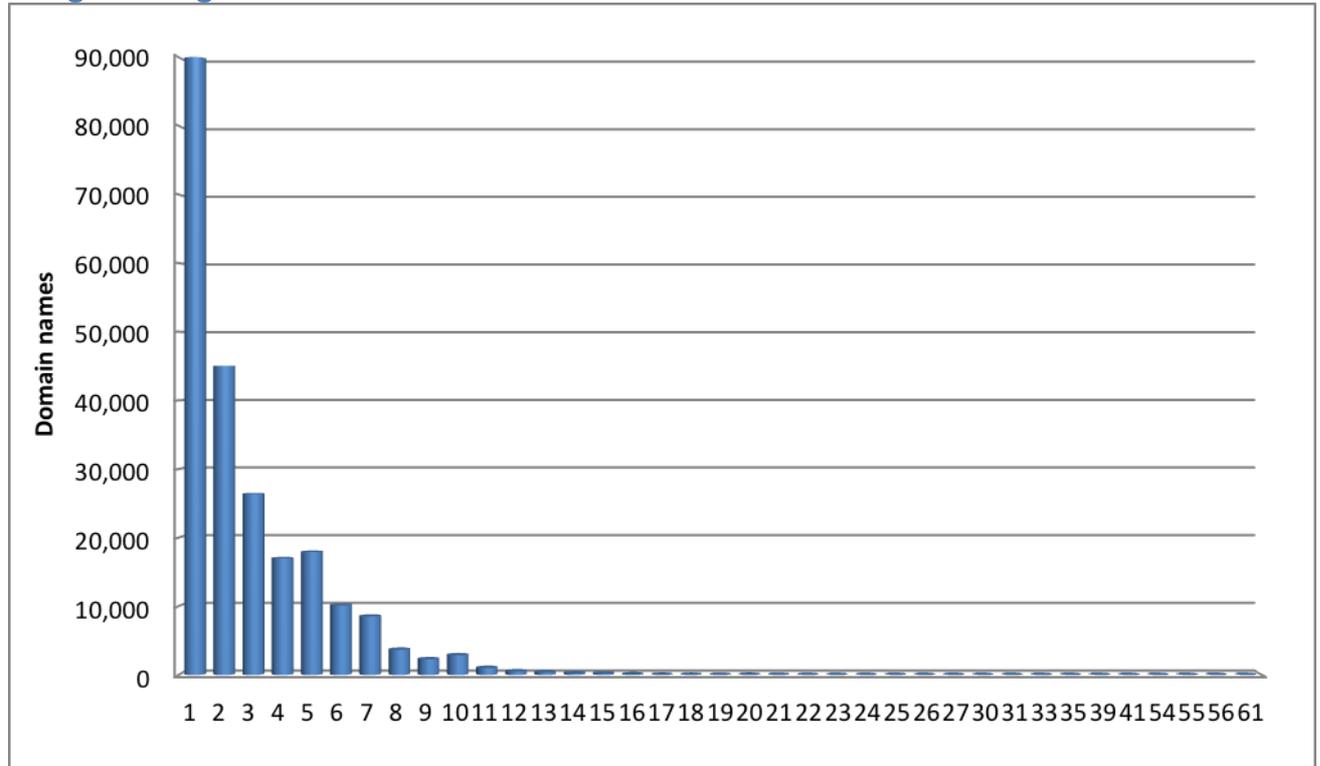


Figure 20. Length of registration in year

Some particular ‘.vn’ domain names have registration length of 61 years.

Domain name renewal breakdown by year of registration:

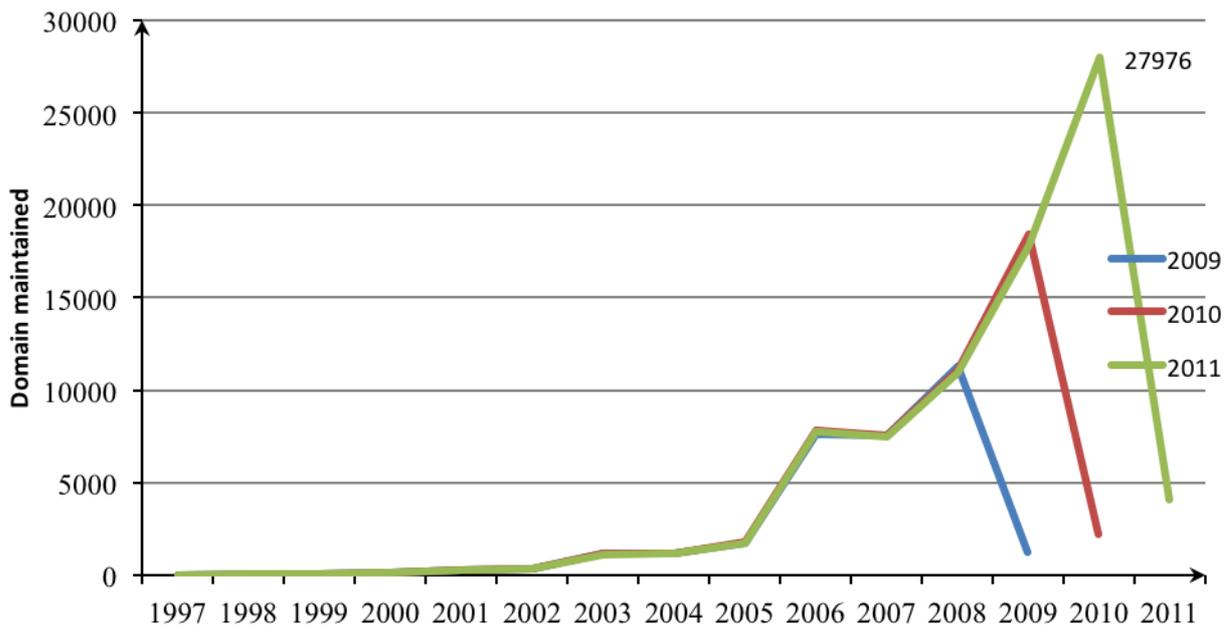


Figure 21. Domain name renewal breakdown by year of registration

The figure shows that domain names which were registered before 2009 (duration >3 years) have stability on the system.

ccTLD ‘.vn’ on overseas markets

- In 1999, the first time a ‘.vn’ domain name was delegated to a foreign registrant.
- As of October 2012, the number of ‘.vn’ domain name registered by foreign registrants reached 14,786, accounting for 9% in the total of the ‘.vn’ market.

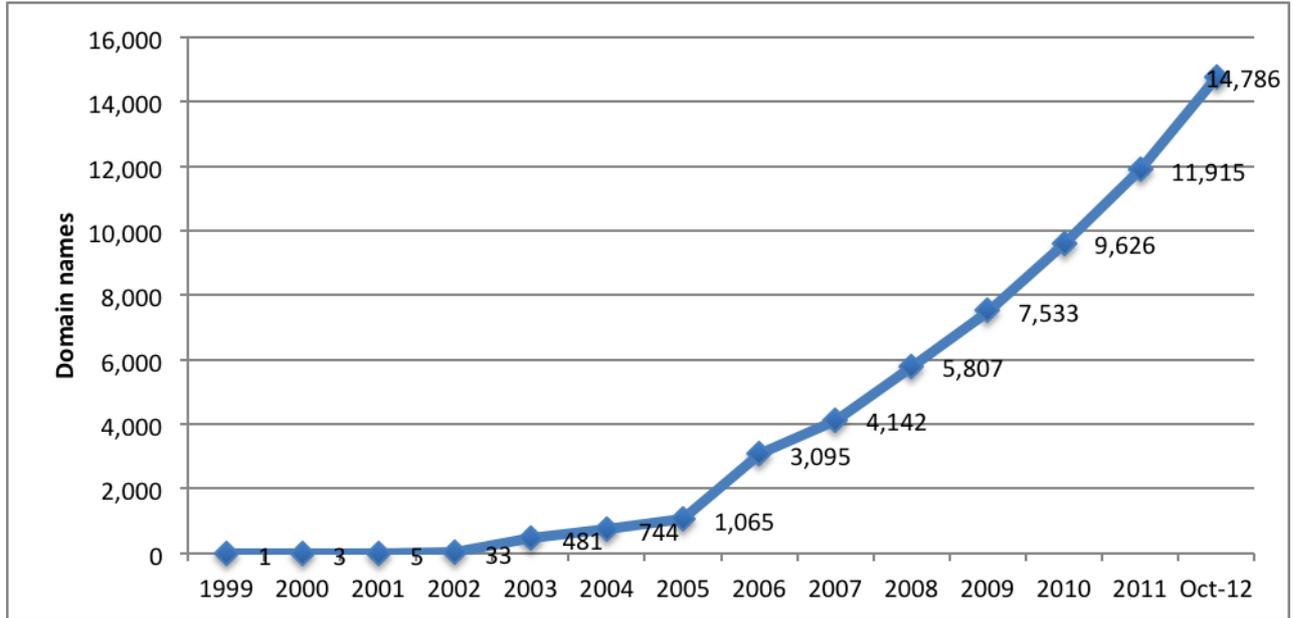


Figure 22. Number of ‘.vn’ domain names registered from outside of Vietnam

‘.vn’ domain name distribution in the overseas markets:

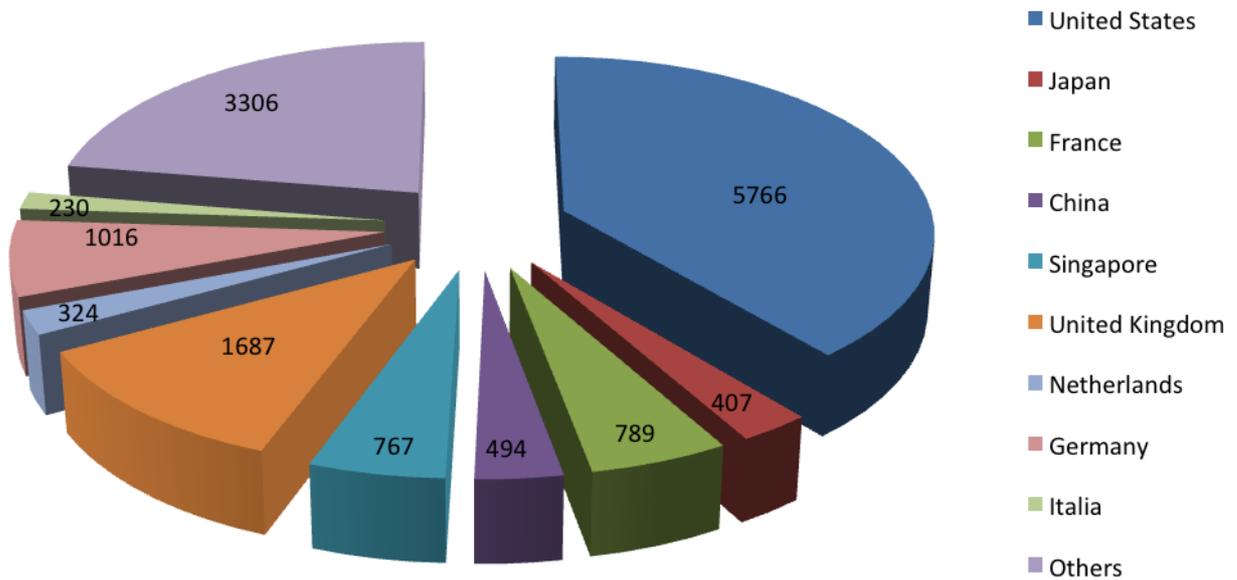


Figure 23. Top 10 countries with highest number of ‘.vn’ domain names

Registry - Registrar model of '.vn'

- The current management structure of '.vn' is based on registry – registrar model.
- As of December 2012, there were 17 '.vn' accredited registrars including 12 domestic registrars and 05 oversea registrars. INET and GMO RunSystem are the two newest registrars accredited in 2012.



Figure 24. '.vn' accredited registrars (sorted by market share)

Market share of the domestic registrars:

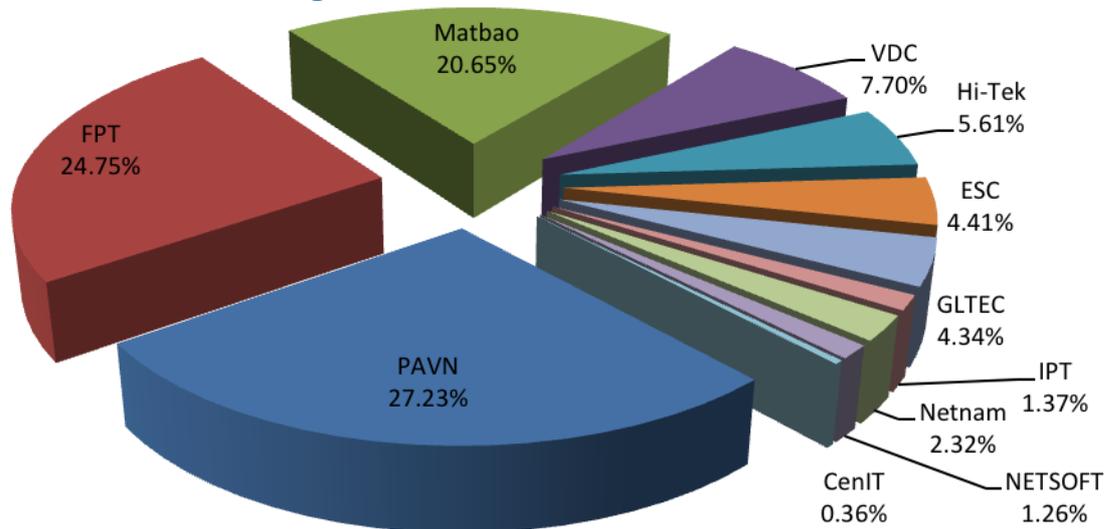


Figure 25. Domestic registrar market share, 10/2012

THE INTERNATIONALIZED DOMAIN NAME OF VIETNAM

- The Vietnamese internationalized domain names (IDN) are second level IDN under ‘.vn’.
- Public trial registration from 2004 to 2006.
- Officially launched from March 2007 (limited for ascii code ‘.vn’ domain name holders).
- Free-of-charge and unlimited registration started from April 28th 2011, the beginning of an booming registration period.
 - On the first day (April 28th 2011), approximately 14,000 Vietnam’s IDNs were registered.
 - During the next several days: an average of 1000 new domain names registered per hour.
 - During the first week: 113,129 registrations.
 - The first four months: 360, 357 registrations.
 - As of October 2012, the number of Vietnamese IDNs reached 836,173 which was 4 times higher than the amount of ccTLD ‘.vn’ developed during the previous 15 years.

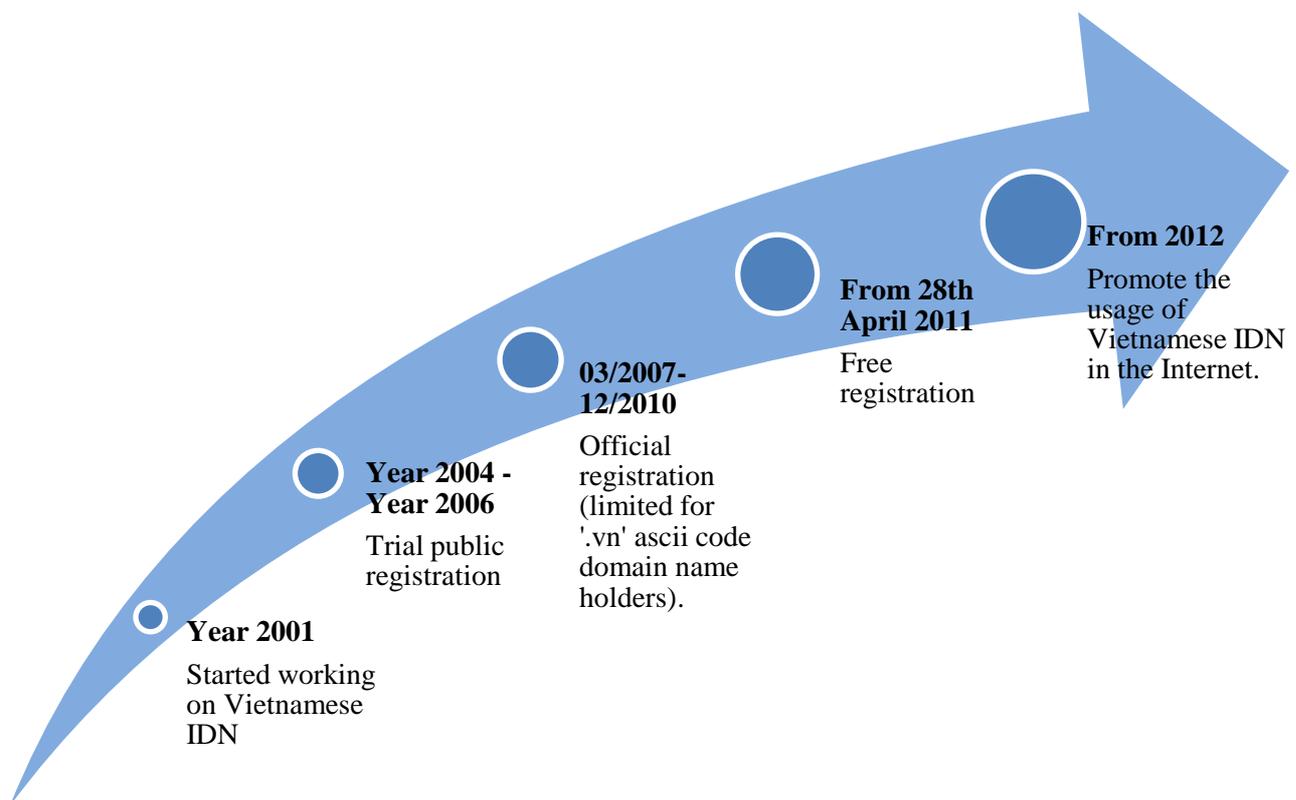


Figure 26. Milestones of Vietnamese IDN

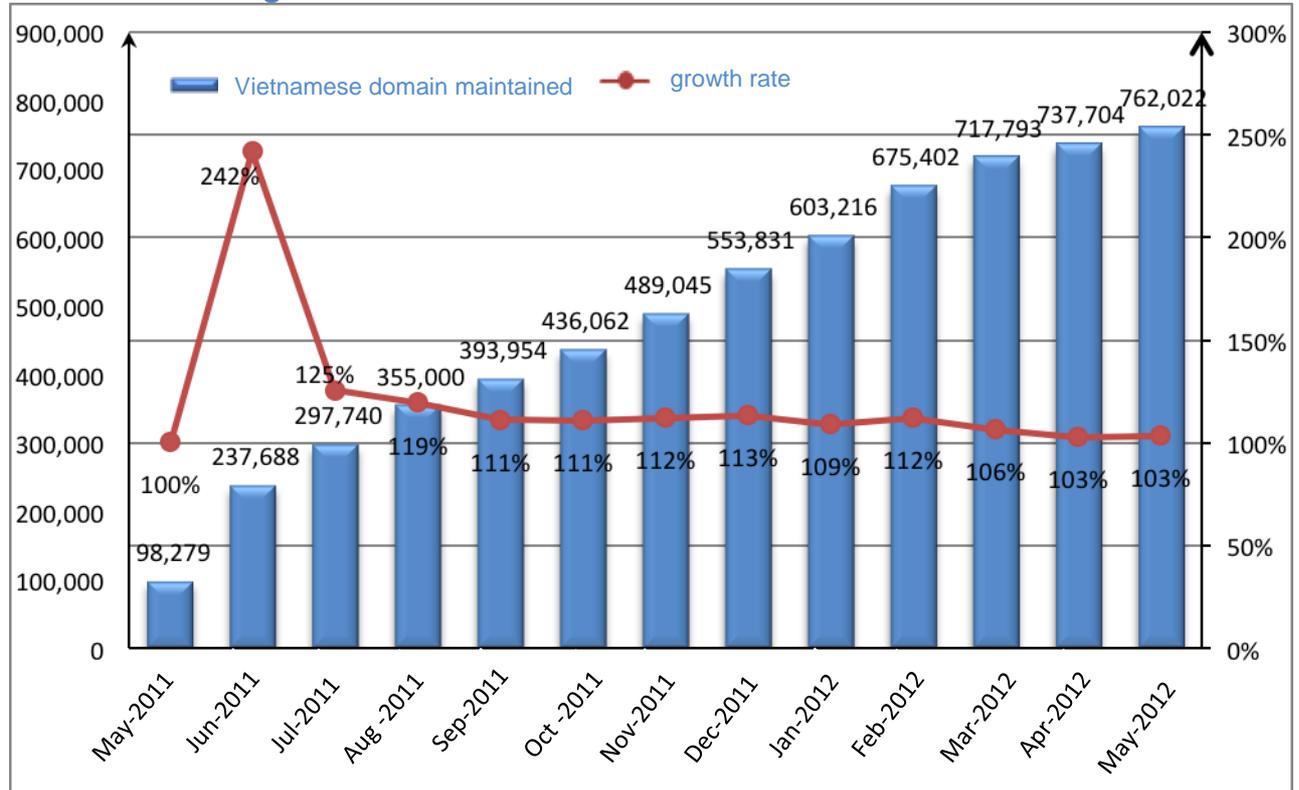
Vietnamese IDN growth rate:


Figure 27. Vietnamese IDN growth rate

- After a booming registration period from April 2011, the volume of Vietnamese IDNs registrations remained at a high level during the following year (2012), now approaching its stable status.
- In the future, the usage of Vietnamese IDN will be promoted broadly to the public.

Vietnamese IDN breakdown by registrant:

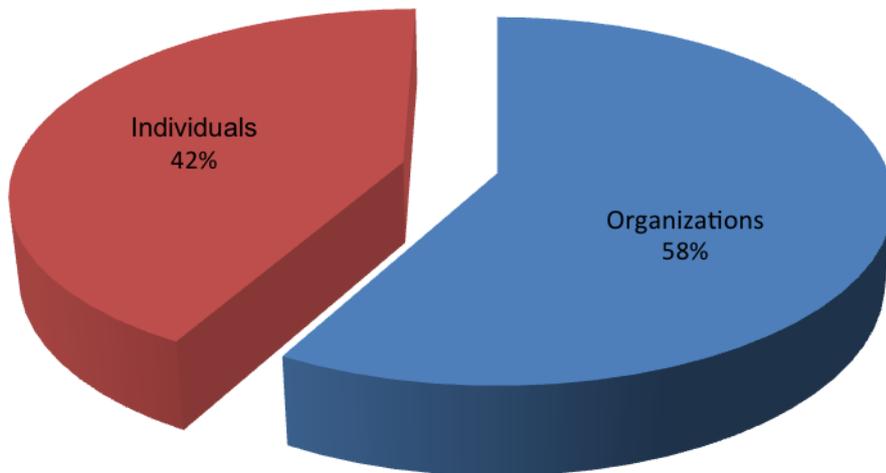


Figure 28. Vietnamese IDN breakdown by registrant

Vietnamese IDN breakdown by geographical areas:

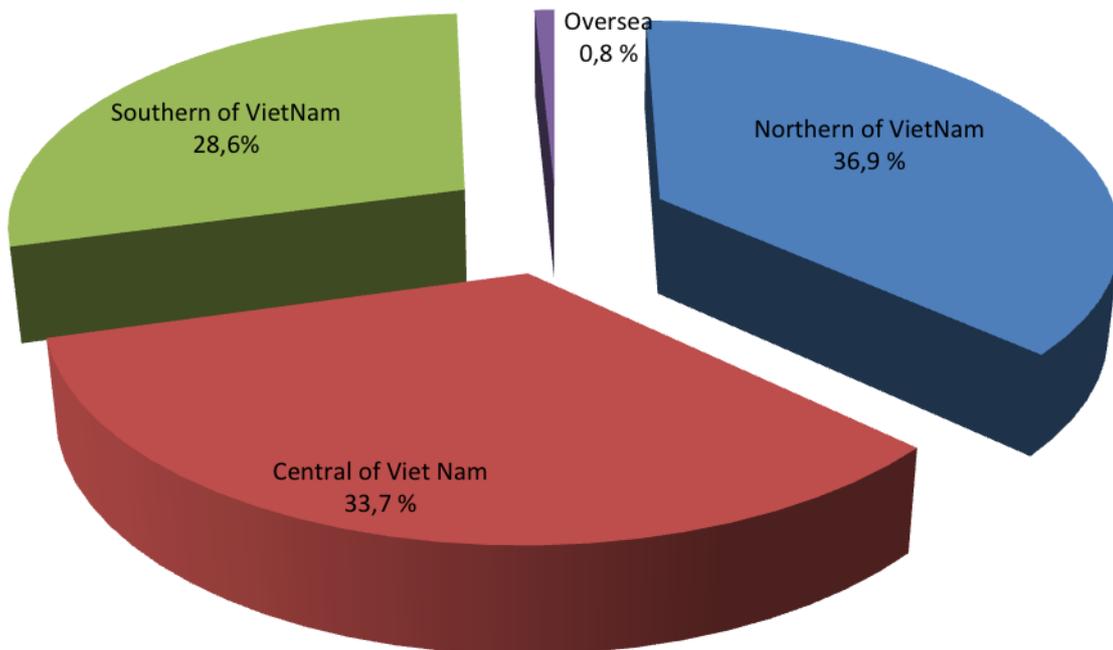


Figure 29. Vietnamese IDN breakdown by geographical areas

Length of Vietnamese IDN:

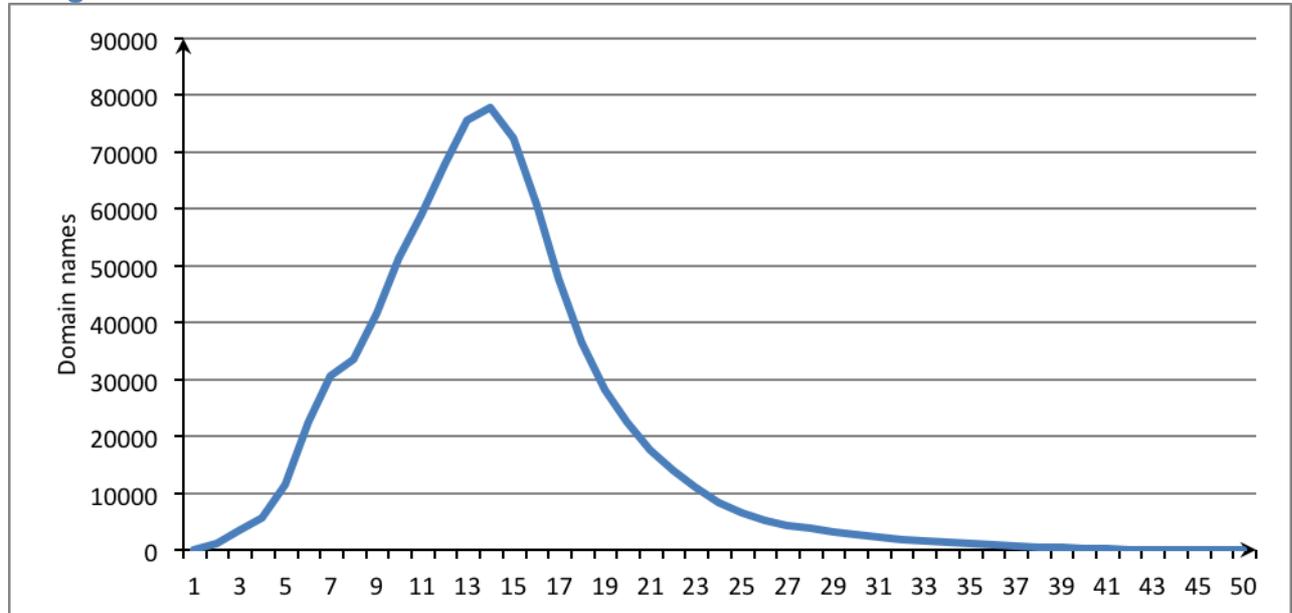


Figure 30. Length of Vietnam's IDN

- An average length of Vietnamese IDN is 14 characters.
- Vietnamese native language would help registrants to easily describe their full brands and trademark names in domains without worrying about wrong transliteration.

<http://tênmiềntiếngviệt.vn>,
 <http://nhàxinh123.vn>,
 <http://inầnqml.vn>,
 <http://đăngtinnhàđáthànhhội.vn>,
 <http://thảmđêmcũ.vn>,
 <http://hùngloaviệtnam.vn>,
 <http://tứduyệngviệtnam.vn> .

Promotion Vietnamese IDN on the Internet

As of October 2012, the usage ratio of Vietnamese IDNs was over 10% with a stable growth rate.

Services for Vietnamese IDNs:

- Web Redirect (launched from June 6th 2011).
- Web Template (launched from June 6th 2012).
- DNS hosting (launched from October 25th 2012).

Vietnamese IDN with active services:

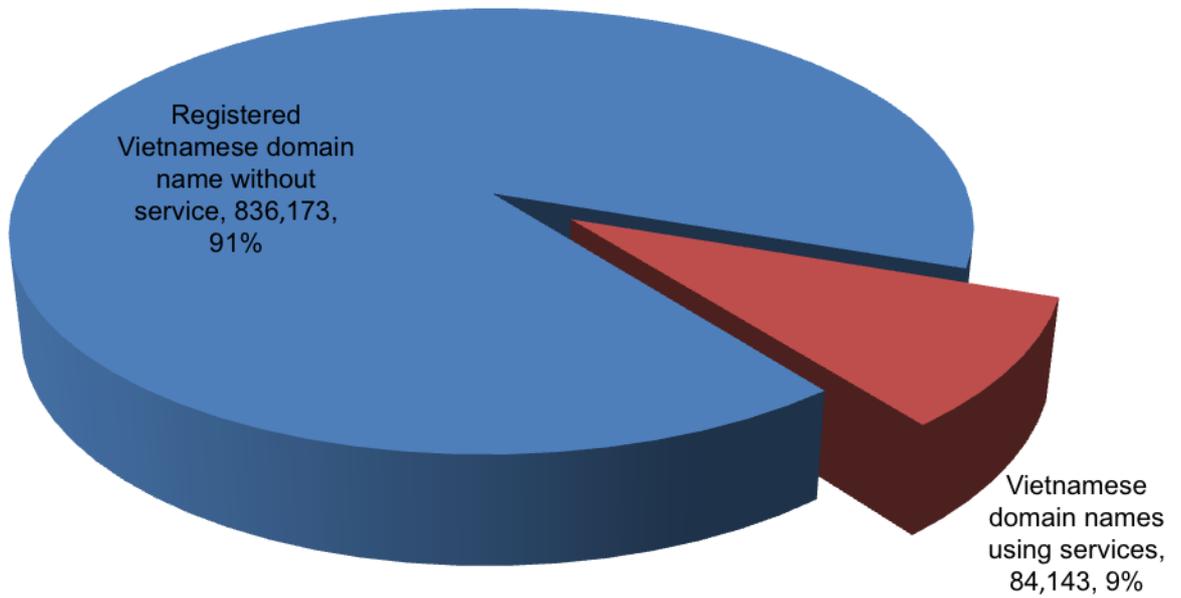


Figure 31. Vietnamese IDN with active services

Service usage breakdown by type of service:

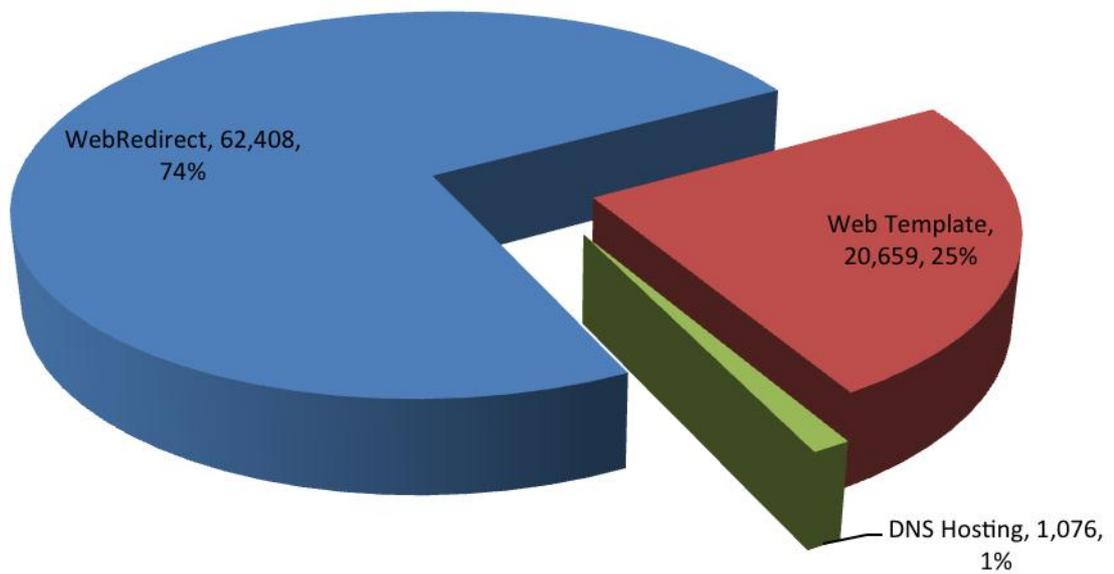


Figure 32. Service usage breakdown by type of service

Top 10 Vietnamese IDNs most queried (October, 2012)

Order	Vietnamese domain name	Number of query
1	Truyện-tranh.vn	31,758,286
2	Buồn84.vn	11,141,960
3	DiễnđànViệtTinh.vn	10,153,239
4	DVBViệtNam.vn	10,075,245
5	chimsẻ.vn	9,472,957
6	hướngdẫnlàmwebsite.vn	8,694,166
7	kênhkh.vn	7,380,894
8	quốcviệt.vn	5,652,024
9	kênh.vn	4,791,957
10	Raovậtdvb.vn	4,621,108

Top 10 ascii '.vn' domain names most queried (October, 2012)

Order	Domain name	Number of query
1	bkav.com.vn	2,646,227,963
2	vtcebank.vn	1,300,020,204
3	vnnic.vn	1,280,578,602
4	go.vn	1,160,506,533
5	zing.vn	353,945,066
6	google.com.vn	279,281,881
7	tvnet.vn	228,915,052
8	top1.vn	216,378,512
9	yahoo.com.vn	122,661,270
10	tvsi.com.vn	80,970,959

Top 10 gTLD domain names most queried via VNNIC's DNS (October, 2012)

Order	Domain name	Number of query
1	google.com	1,437,576,658
2	yahoo.com	1,381,112,628
3	facebook.com	1,051,862,395
4	kaspersky.com	1,004,120,461
5	apple.com	823,205,412
6	ripe.net	282,605,424
7	ptvcdn.net	184,801,915
8	twitter.com	167,441,670
9	youtube.com	159,423,258
10	verisign.net	138,197,285

‘.VN’ DOMAIN NAME SYSTEM (DNS)

- DNS is the critical infrastructure of the Internet. During 12 years of operation, the ‘.vn’ DNS has always been in the highest stable and secure status. There are 07 clusters including 05 domestic and 02 overseas ones with more than 40 nodes all over the world.
- Supporting anycast and dual-stack IPv4/IPv6 technologies.
- Furthermore, 02 DNS recursive caching systems help domestic internet users to enhance the quality of ‘.vn’ and gTLD domain name queries.

Allocation map of ‘.vn’ DNS:



Figure 33. Domestic allocation Map of ‘.vn’ DNS



Figure 34. Global allocation map of ‘.vn’ DNS

DNS Query statistics

Number of ccTLD ‘.vn’ queries (by the end of 2011):

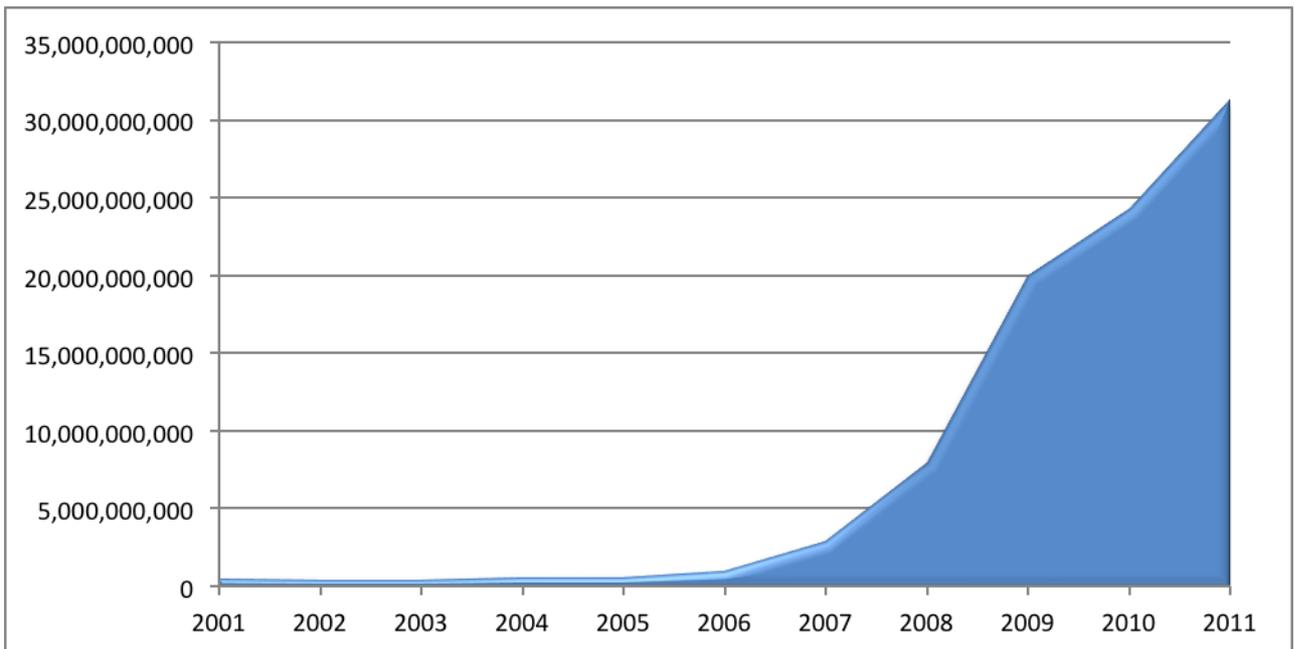


Figure 35. Number of ccTLD ‘.vn’ queries (by the end of 2011)

Number of ccTLD '.vn' queries in 2012:

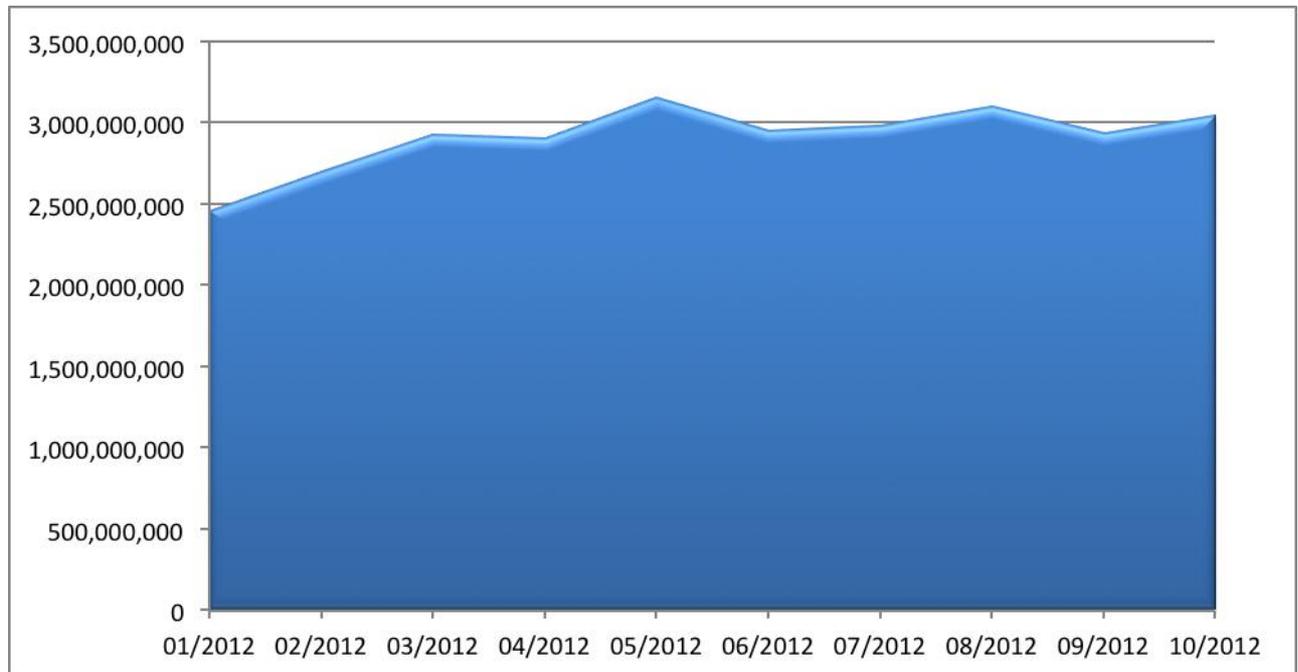


Figure 36. Number of ccTLD '.vn' queries in 2012

Number of ccTLD '.vn' queries breakdown by category:

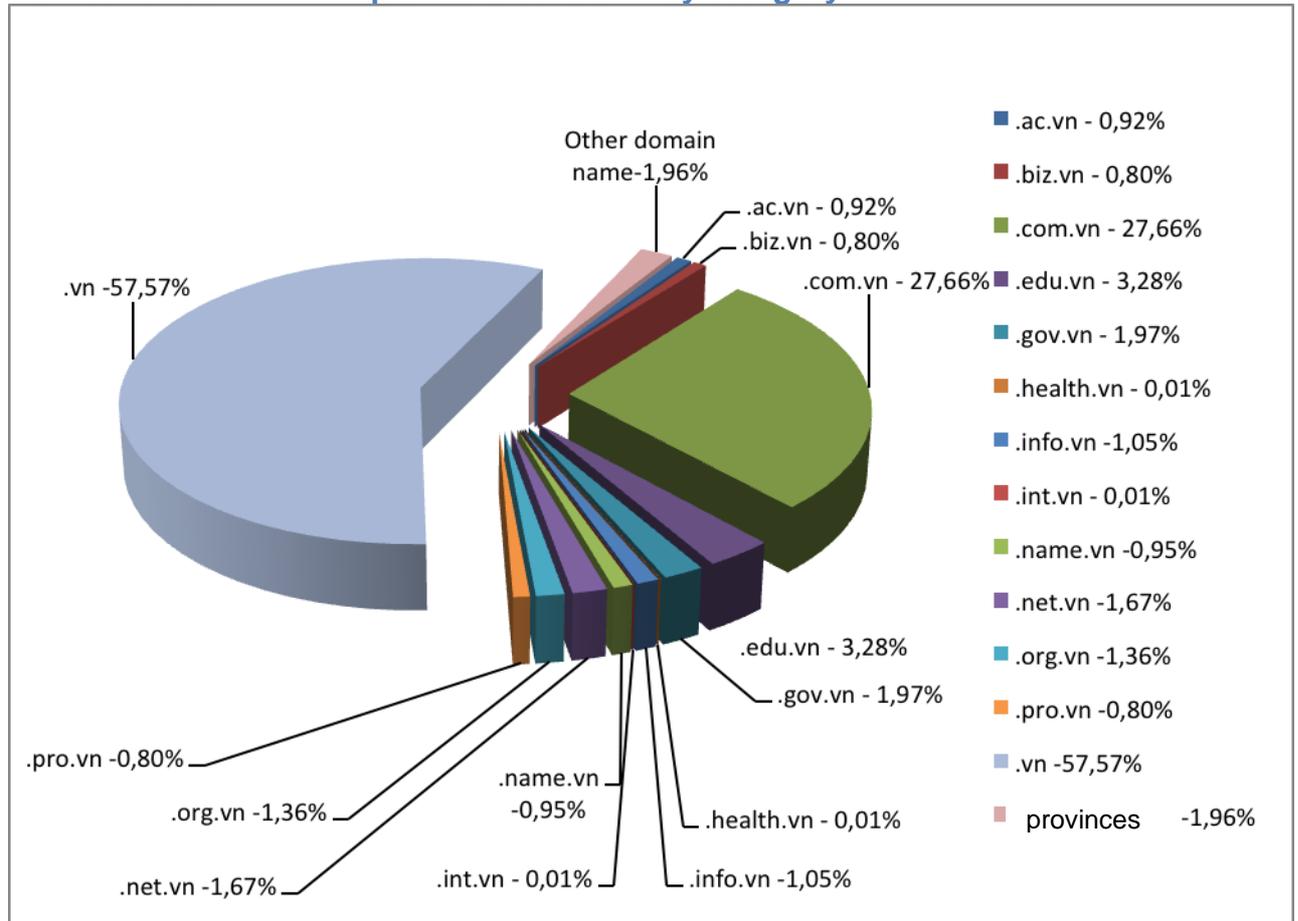


Figure 37. Number of ccTLD '.vn' queries breakdown by category (October, 2012)

Number of ccTLD '.vn' queries vs gTLD:

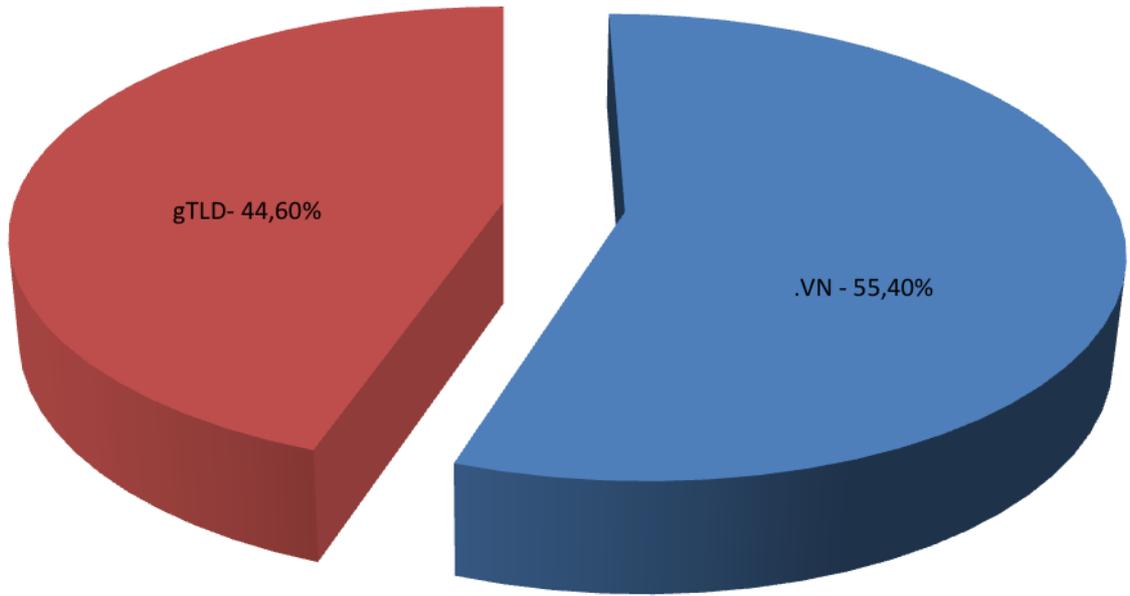


Figure 38. Number of ccTLD '.vn' queries vs gTLD

Number of DNS queries breakdown by TLD:

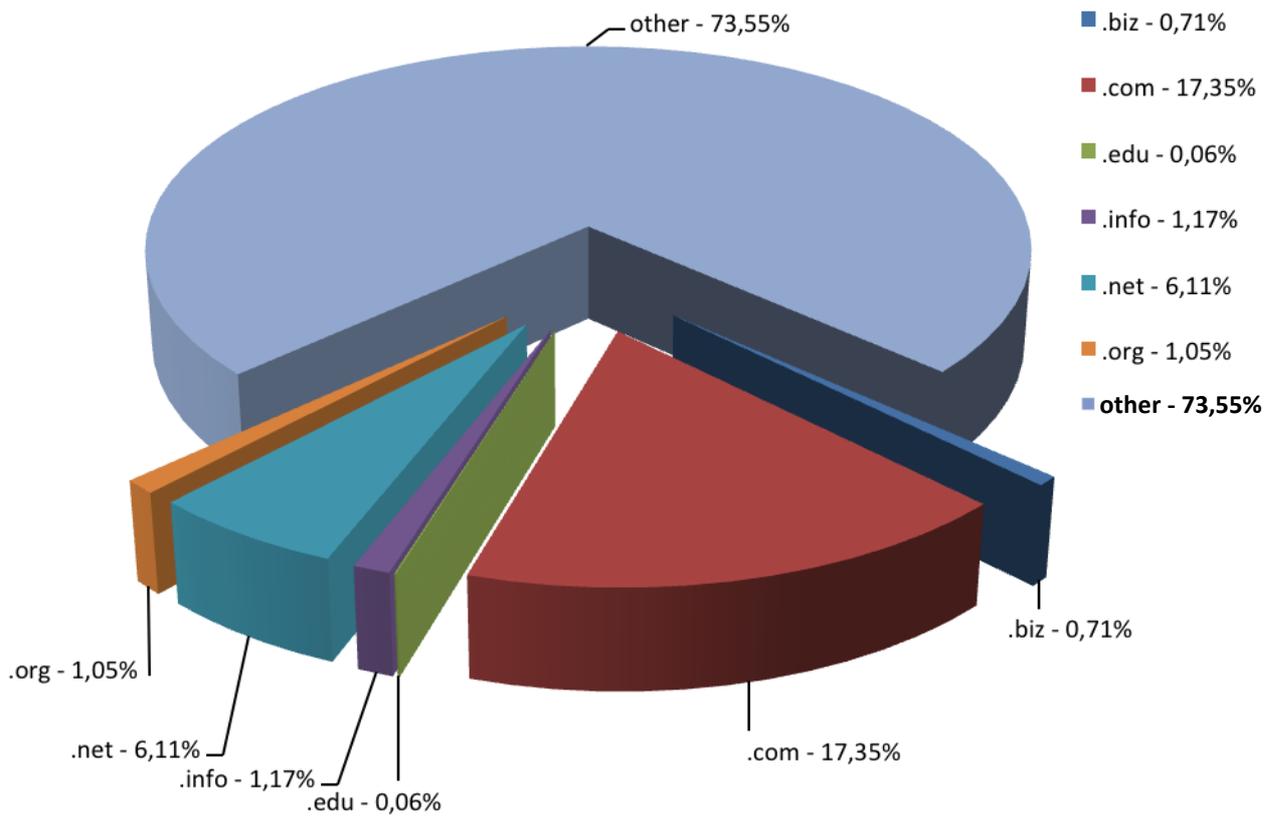


Figure 39. Number of DNS queries breakdown by TLD (October, 2012)

Number of DNS queries breakdown by record type '.vn'

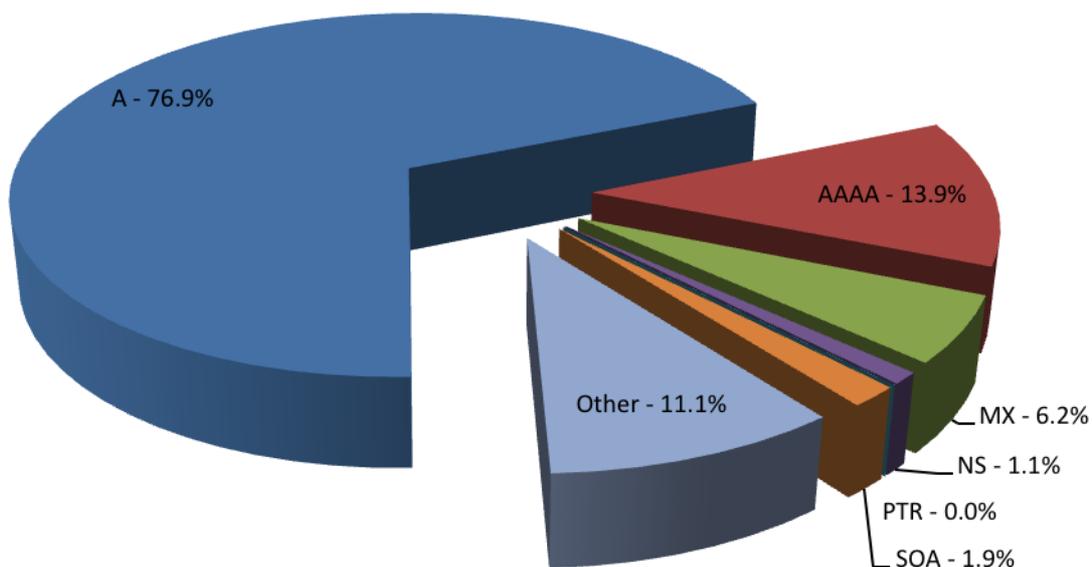


Figure 40. Number of DNS queries breakdown by record type '.vn'

The figure shows that the number of IPv6 AAAA record is remarkable (13.9%).

Queries distribution among clusters of '.vn' DNS:

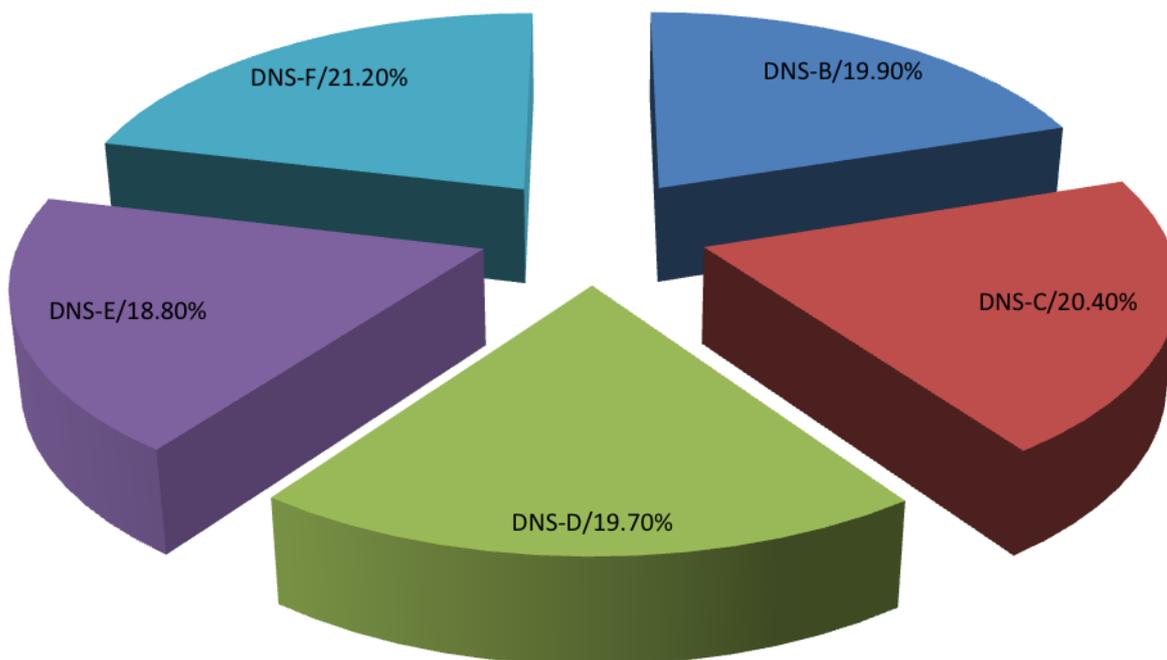


Figure 41. Queries distribution among clusters of '.vn' DNS

INTERNET ADDRESS (IP) AND AUTONOMOUS SYSTEM NUMBER (ASN)

- In 2000, the number of IPv4 addresses in Vietnam were 16,896.
- In March 2003, VNNIC was recognized by APNIC as the National Internet Registry (NIR) of Vietnam.
- Number of IPv4 addresses in Vietnam grew significantly until the IPv4 exhaustion on April 15th 2011.
- Number of IPv4 addresses in Vietnam reached 1 million in 2007, 10 million in 2010 and 15,549,184 by October 2012.

Vietnam ranks 25th in the world, 8th in Asia and 2nd in ASEAN for the number of IPv4 addresses, effectively assisting the stable development of the Internet in Vietnam.

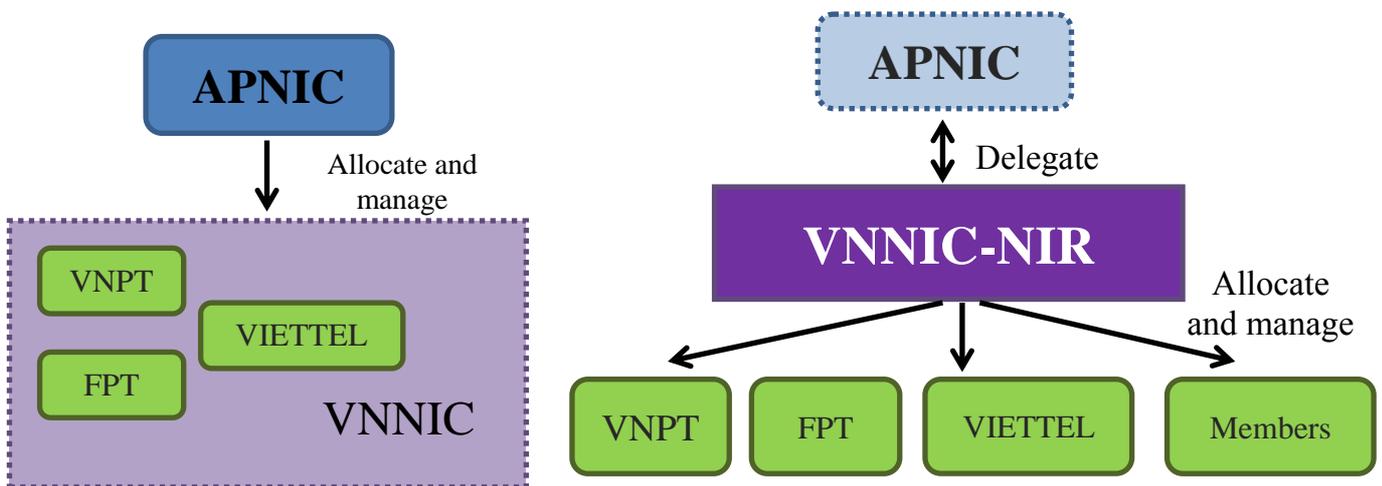


Figure 42. IP Address Management Model in Vietnam before and after NIR accreditation

IPv4 Address in Vietnam

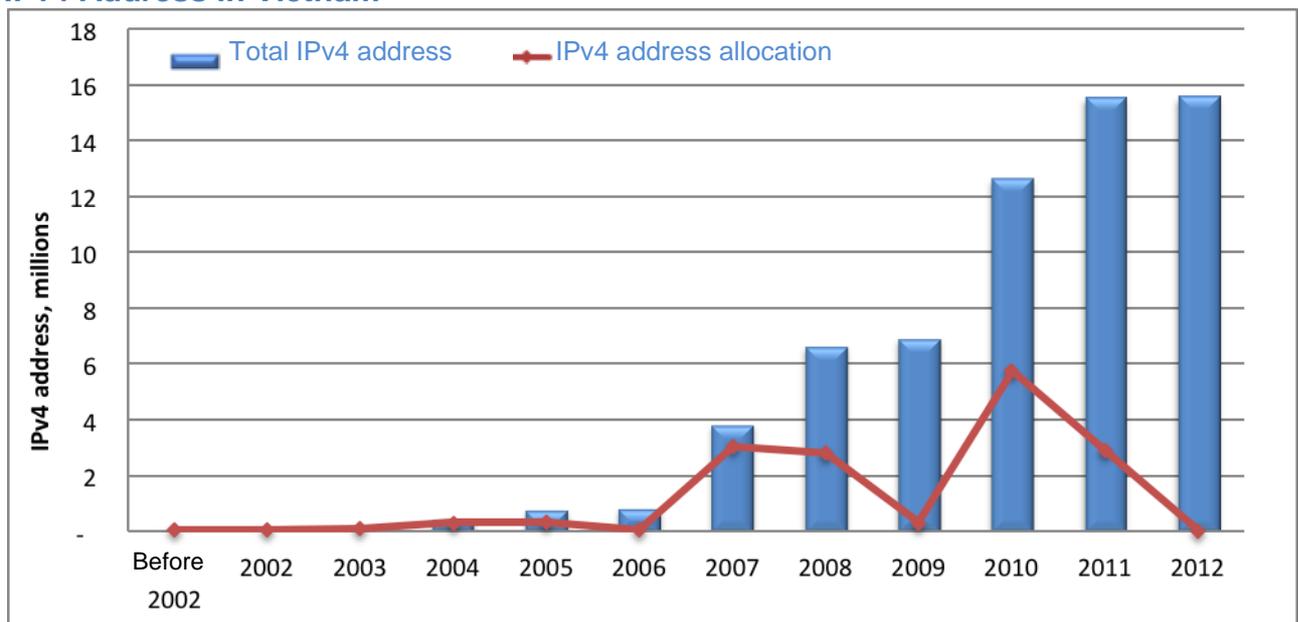


Figure 43. Number of newly allocated IPv4 per year and total IPv4 addresses over year

Rank of country (economy) for the number of IPv4 addresses in the Asia (October, 2012 - source: www.bgpexpert.com)

STT	Country/Economy	Number of IPv4 Addresses
1	China	329,978,368
2	Japan	201,952,512
3	Republic of Korea	112,251,392
4	Taiwan	35,391,232
5	India	34,806,016
6	Indonesia	17,399,296
7	Turkey	16,194,304
8	Vietnam	15,549,184
9	Hong Kong	11,809,280
10	Iran (Islamic Republic of)	9,563,136
11	Thailand	8,559,616
12	Israel	7,537,472
13	Malaysia	6,338,048
14	Saudi Arabia	6,327,040
15	Singapore	6,069,248
16	Philippines	5,382,912
17	Pakistan	5,187,328
18	United Arab Emirates	3,204,992
19	Kazakhstan	2,717,440
20	Kuwait	1,934,848

Rank of country (economy) for the number of IPv4 addresses in the ASEAN (October, 2012 - source: www.bgpexpert.com)

STT	Country/Economy	Number of IPv4 Address
1	Indonesia	17,399,296
2	Vietnam	15,549,184
3	Thailand	8,559,616
4	Malaysia	6,338,048
5	Singapore	6,069,248
6	Philippines	5,382,912
7	Cambodia	230,656
8	Brunei Darussalam	194,048
9	Lao People's Democratic Republic	55,808
10	Myanmar	25,600
11	Timor-Leste	4,096

VNNIC's members

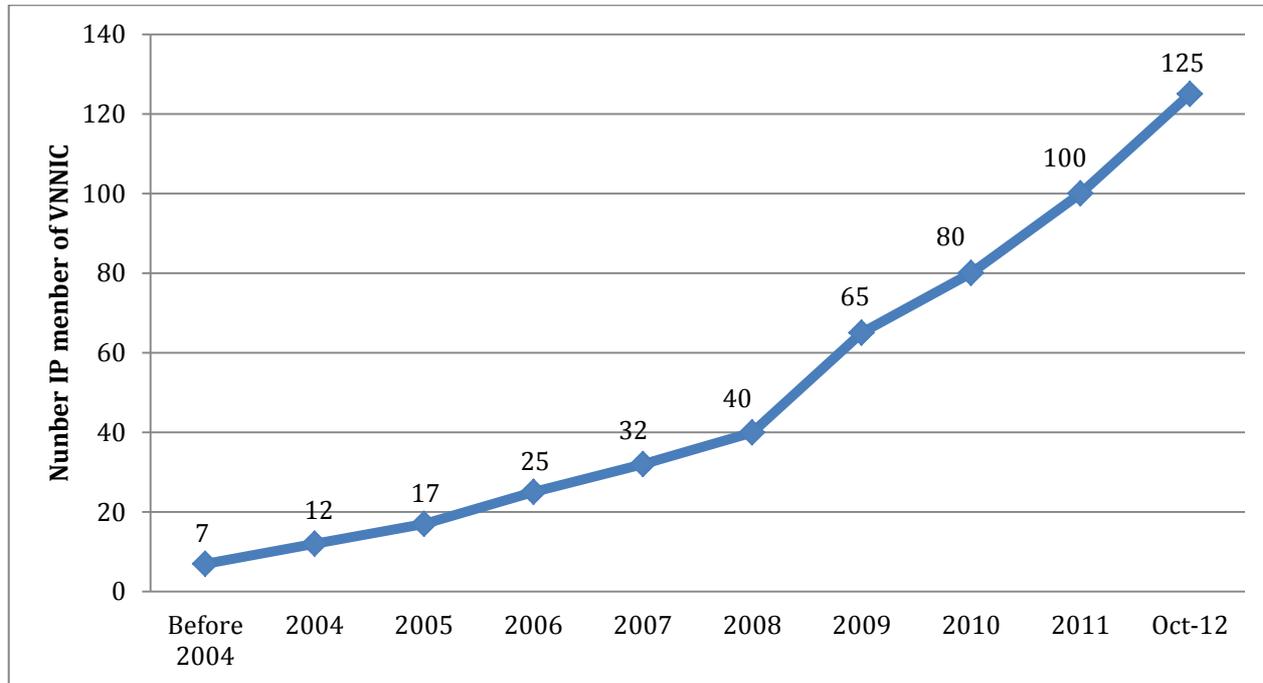


Figure 44. Number of VNNIC's member

Member category:

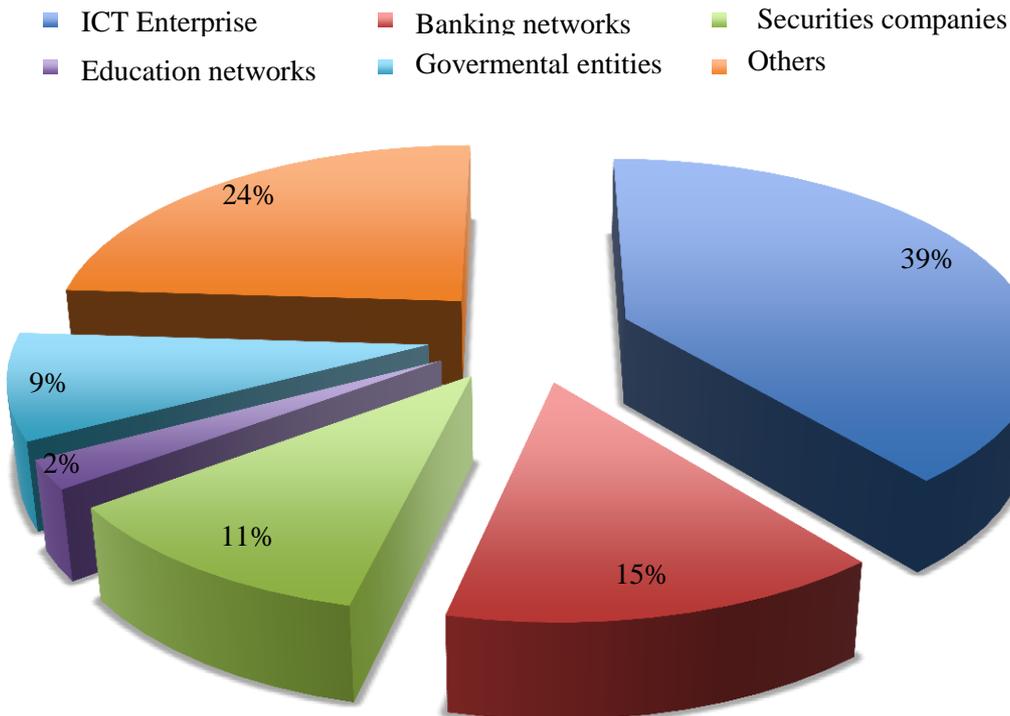


Figure 45. VNNIC's Member category

IPv4 address exhaustion

In February 2011, Internet Assigned Numbers Authority (IANA) informed that its IPv4 pool was exhausted. After that, on April 15th 2011, Asia-Pacific Network Information Centre (APNIC) announced its IPv4 address pool reached the final /8, bringing the Asia Pacific region to the last Stage of IPv4 exhaustion. The last /8 address policy came into effect which allowed each organization in the region to receive only a maximum allocation of a /22 (1024 addresses) from the final /8 to support IPv6 deployment.

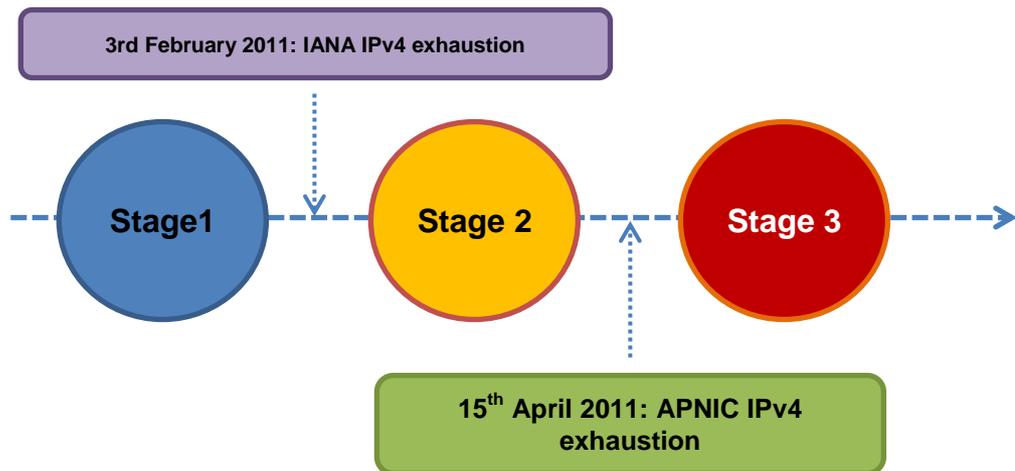


Figure 46. The stages of IPv4 address exhaustion

Autonomous System Number (ASN)

- In Vietnam, the first AS numbers appeared along with the establishment of major Internet service providers, such as: VDC: 7643, Viettel: 7552, Saigon Postel: 7602.
- As of October 2012, VNNIC allocated 138 Autonomous system numbers of which there are 37 4-byte ASNs.

IPV6 ADDRESS

- IPv6 (Internet Protocol Version 6) is the next-generation of Internet to replace the current IPv4 which faces the problem of exhaustion, in order to support the Internet development in the future.
- The length of an IPv6 address is 128-bit. Thus, IPv6 address space expands to a huge number that is 2^{128} (3.3×10^{38}) in comparison with 2^{32} (4.3×10^9) of IPv4.

Address	Year	Space	Format
IPv4	1981	$2^{32} = 4.3 \times 10^9$	203.110.0.1
IPv6	1999	$2^{128} = 3.3 \times 10^{38}$	2001:2104:AC0D::/48

IPv6 Promotion in Vietnam

IPv6 promotion is one of highly prioritized policies of Vietnamese Government.

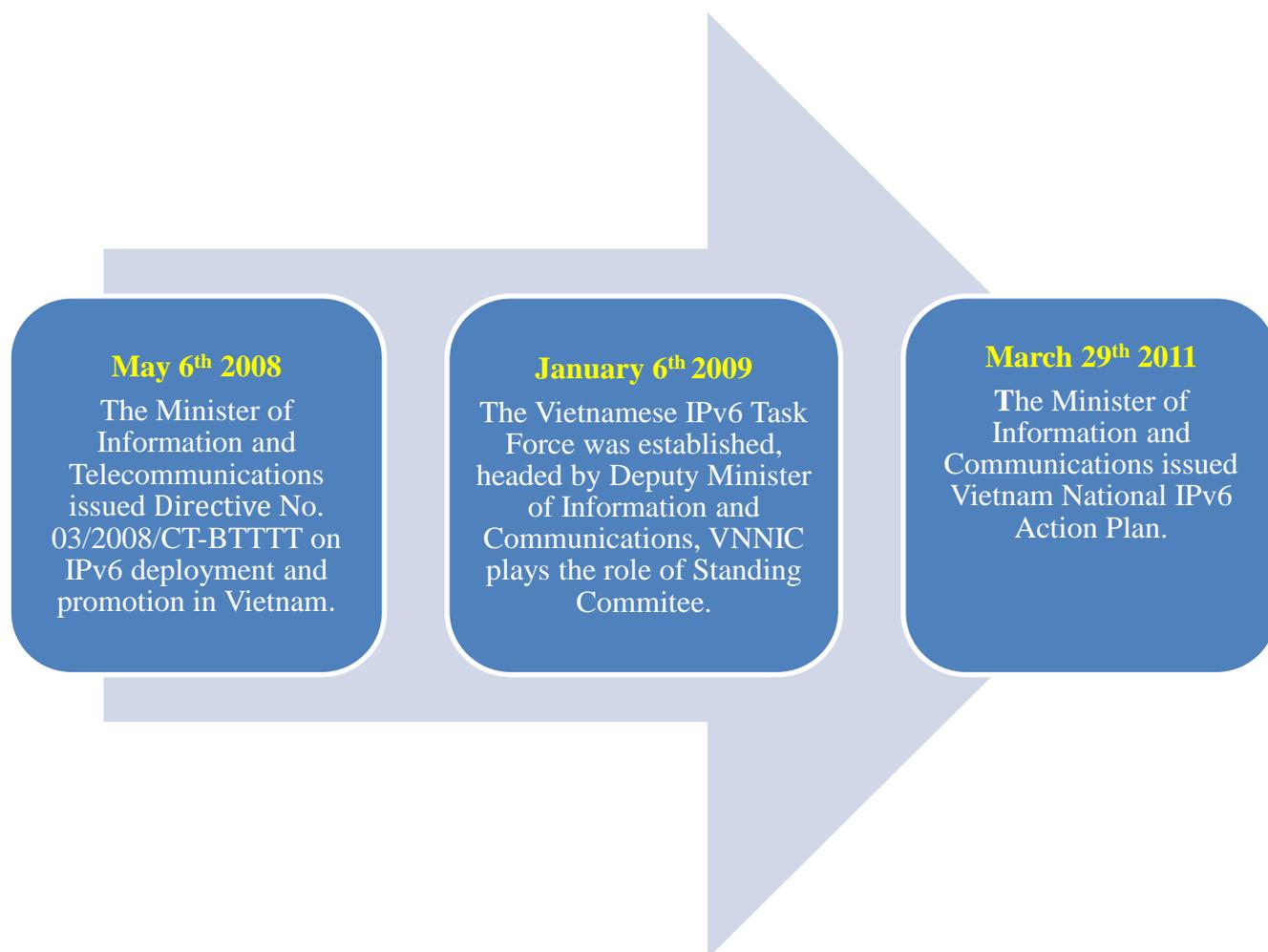


Figure 47. Vietnam IPv6 promotion milestones

Vietnam National IPv6 Action Plan

On March 29th, 2011, the Minister of Information and Communications promulgated the Vietnam National IPv6 Action Plan which determined the objectives and specific roadmap for a transition to IPv6 in Vietnam:

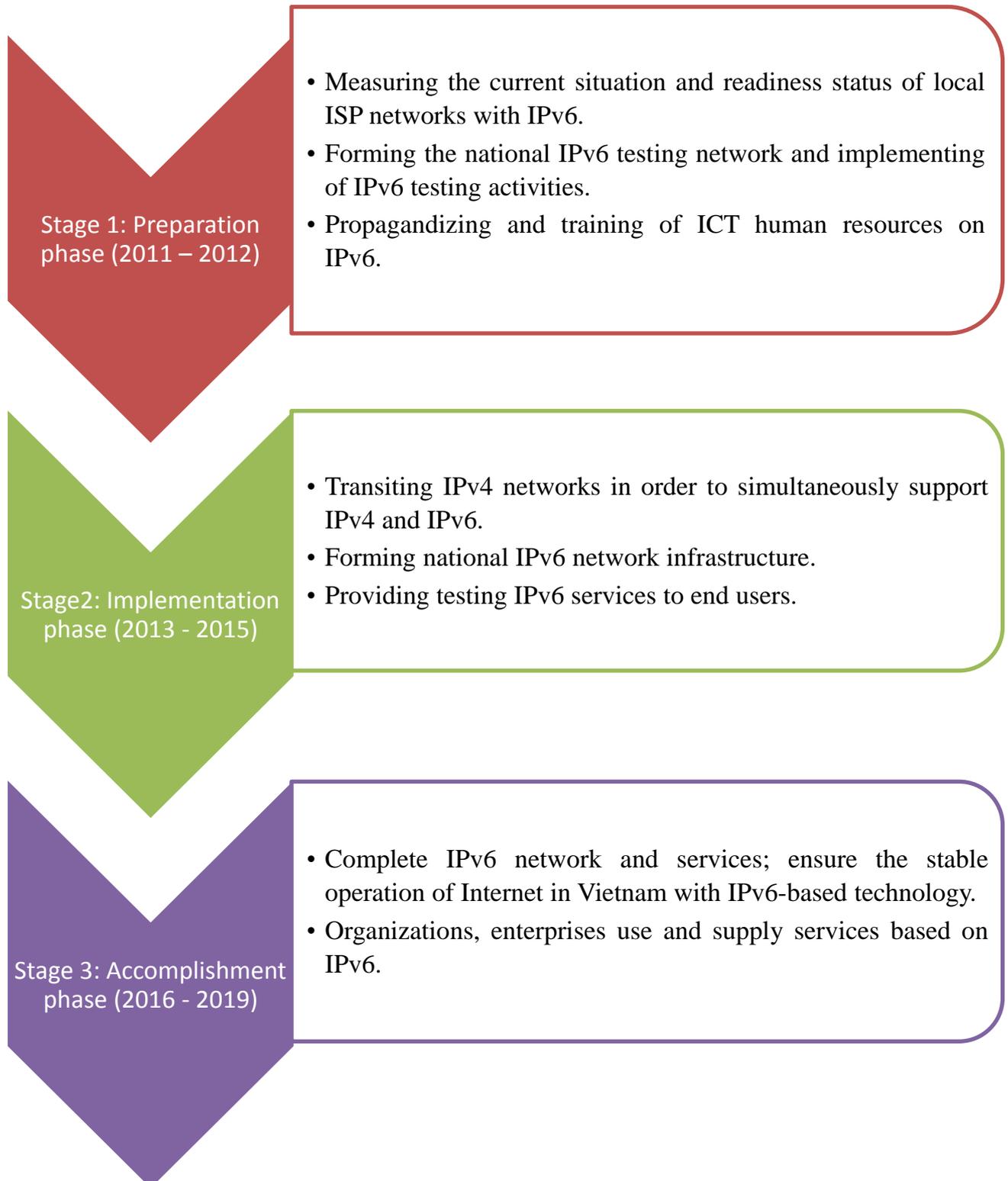


Figure 48. Three stages in the Vietnam National IPv6 Action Plan

IPv6 address in Vietnam

The first IPv6 block was allocated to Vietnam in 2004. The number of IPv6 grew fast in 2008 after MIC released the Directive No. 03/2008/CT-BTTTT on promoting the use of IPv6.

Number of IPv6 addresses allocated to Vietnam

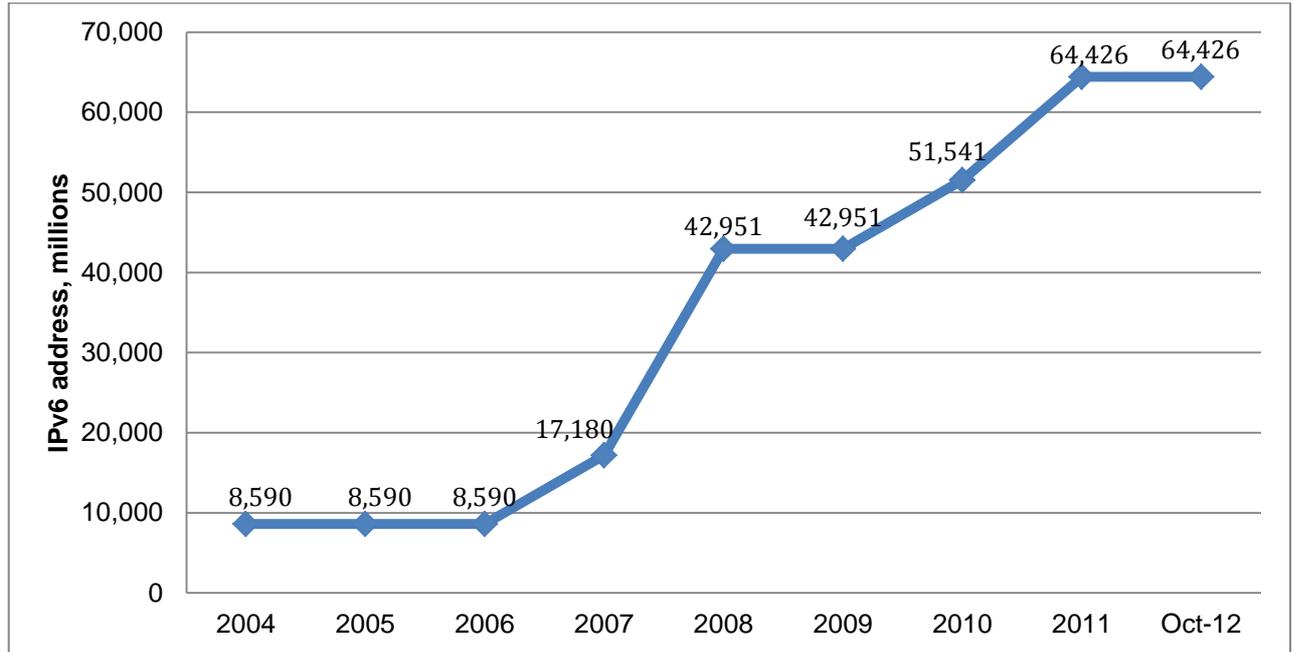


Figure 49. Number of IPv6 addresses allocated to Vietnam

National IPv6 Network

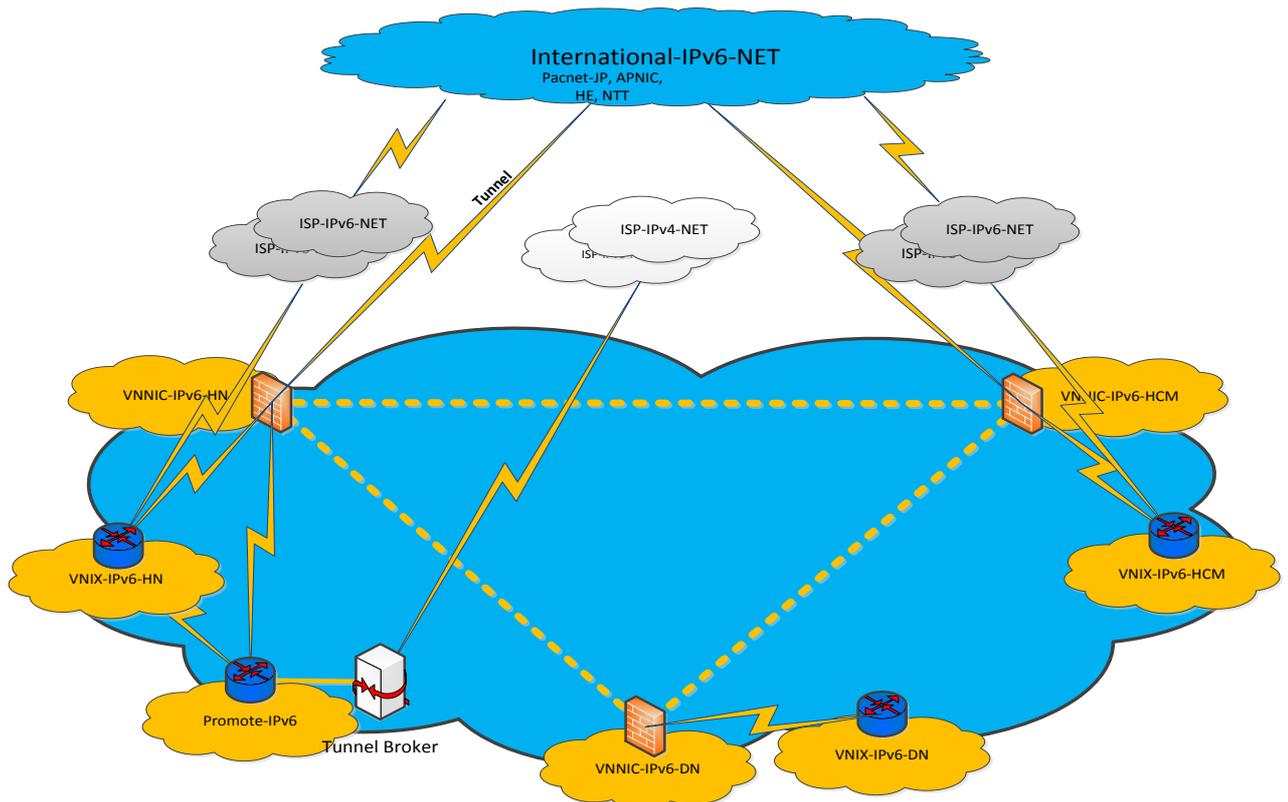


Figure 50. National IPv6 Network

VIETNAM INTERNET NETWORK INFORMATION CENTER (VNNIC)

Vietnam Internet Network Information Center (VNNIC), an organization belonging to the Ministry of Information and Communications, was founded on 28th April 2000 to carry out the functions of managing, allocating, supervising and promoting the use of Internet domain names, addresses (IP), Autonomous System Numbers (ASN) in Vietnam (collectively called as “Internet resources”); providing Internet-related guidance, statistics on the Internet; and participating in international Internet activities.

Since its establishment, VNNIC has played an important role in the development of the Internet in Vietnam, serving as the source of information and guidance for Vietnamese Internet users, as well as promoting Vietnam’s Internet development.

Remarkable milestones during the formation and development of VNNIC:

- ❖ **April 28th 2000:** Vietnam Internet Network Information Center (VNNIC) was established by the Department General of Post and Telecommunications (DGPT), the forerunner of Ministry of Information and Communications.
- ❖ **October 2000:** The functions of management and allocation of domain names, IP address and ASN in Vietnam officially taken over.
- ❖ **May 2001:** Became a member of Asia Pacific Top Level Domain Name Association (APLTD).
- ❖ **March 2003:** Recognized by Asia Pacific Network Information Centre (APNIC) as the National Internet Registry in Vietnam.
- ❖ **May 2003:** Officially providing Vietnam Internet statistics.
- ❖ **May 2003:** Decision No. 92/2003/QĐ-BBCVT on management and use of Internet resources – the first full legal document on Internet resource management which allowed individuals to register ‘.vn’ domain names, replacing the temporary regulation documents promulgated by DGPT in November 1998 – submitted by VNNIC to the Minister of Post and Telecommunications for approval.
- ❖ **November 2003: Vietnam Network Internet Exchange (VNIX)** was established to exchange domestic Internet traffic, significantly improving the quality of Internet services in Vietnam.
- ❖ **April 2004:** Opening trial public registration for Vietnamese IDN.
- ❖ **July 2005:** Opening the representative office in Da Nang City.
- ❖ **August 2005:** The Decision No. 27/2005/QĐ-BBCVT on management and use of Internet resources replacing Decision No. 92/2003/QĐ-BBCVT submitted by VNNIC to the Minister of Post and Telecommunications for approval.
- ❖ **August 2006:** Officially opening public registration for second level domain name under ‘.vn’.
- ❖ **May 2007:** Fully applying “Registry-Registrar” model for ‘.vn’ with the basic principle of “first come, first served” in ‘.vn’ registration.
- ❖ **January 2008:** VNNIC’s new building located in Yen Hoa, Cau Giay District, Hanoi opened.
- ❖ **March 2008:** Establishing VNNIC’s branch in Ho Chi Minh City.
- ❖ **May 2008:** Setting up the National IPv6 testing network.
- ❖ **December 2008:** The Circular No. 09/2008/TT-BTTTT on the management and use of Internet resources and the Circular No. 10/2008/TT-BTTTT on the settlement of disputes over Vietnam's country code domain name ‘.vn’, which completed the legal framework in the field of Vietnam Internet resource management submitted by VNNIC to the Minister of Information and Communications for approval.
- ❖ **December 2008:** Deploying anycast and dual-stack IPv4/IPv6 technologies for ‘.vn’ DNS.
- ❖ **January 2009:** The Vietnamese IPv6 Task Force was established, headed by Deputy Minister of Information and Communications, VNNIC plays the role of Standing Committee.
- ❖ **October 2009:** VNNIC’s building project in Da Nang, Hanoi and Ho Chi Minh city kicked off.
- ❖ **January 2010:** The number of ‘.vn’ reached 100,000. Vietnam became the second largest country in ASEAN in terms of using the ccTLD.

- ❖ **April 2011:** Opening public and free-of-charge registration for Vietnamese IDN, starting the booming period of Vietnamese IDN.
- ❖ **May 2012:** The number of '.vn' reached 200,000. Vietnam became the largest country in ASEAN in terms of using ccTLD.

During the 12 years of development and growth, VNNIC has affirmed its role of Internet resource management, contributing to the overall success of the Internet in Vietnam, deserving prizes and honors awarded by State and Government. These achievements will be the stable foundation for VNNIC to keep continuous development in the future.



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