



MINISTRY OF INFORMATION AND COMMUNICATIONS
VIETNAM INTERNET NETWORK INFORMATION CENTER

Internet resource management as a contribution factor for Viet Nam Internet Governance

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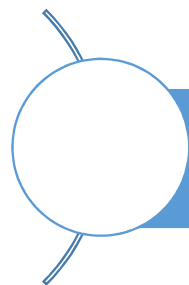
Vietnam Internet Network Information Center (VNNIC)

www.vnnic.vn

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- Growth of Internet in Vietnam
- Law making body and legal system
- Vietnam Internet Network Information Center (VNNIC)
- Internet resources management and development





Growth of Internet in Vietnam



Growth of Internet in Vietnam

- Vietnam is one of top countries with highest Internet development. From 2000 to 2016, the development rate is 15%, ranking 3rd in the top of 20 countries with highest Internet development rate.
- Vietnam stay in 13th of countries with most Internet user. Total number of Internet user is 49 millions (occupying 52% of population), of which over 60% is young.

Year	Internet Users**	Penetration (% of Pop)	Total Population	Non-Users (Internetless)	1Y User Change	1Y User Change	Population Change
2016*	49,063,762	52 %	94,444,200	45,380,438	3.3 %	1,564,346	1.07 %
2015	47,499,416	50.8 %	93,447,601	45,948,185	6.4 %	2,849,701	1.11 %
2014	44,649,715	48.3 %	92,423,338	47,773,623	11.3 %	4,534,442	1.14 %
2013	40,115,272	43.9 %	91,378,752	51,263,480	12.5 %	4,441,765	1.15 %
2012	35,673,508	39.5 %	90,335,547	54,662,039	13.9 %	4,348,316	1.13 %

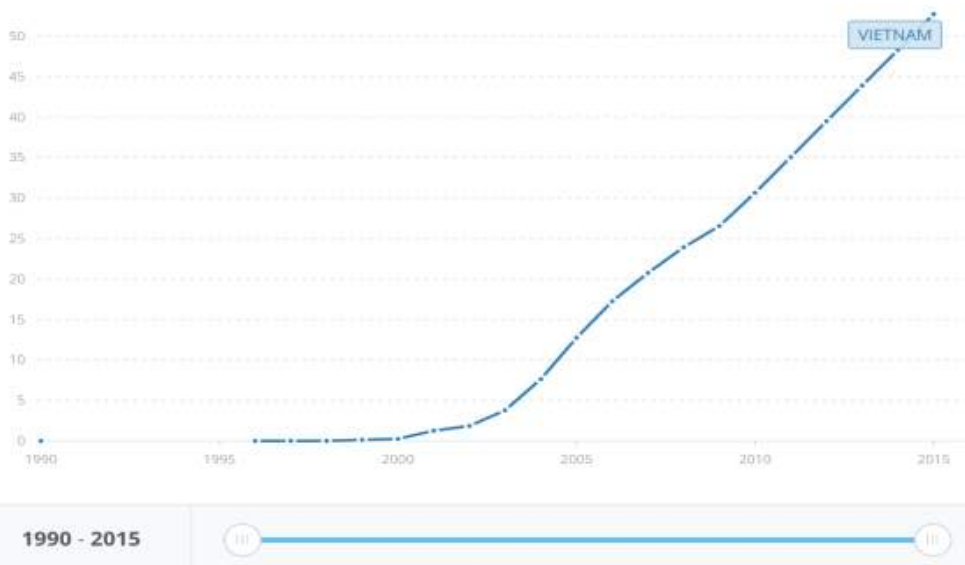
Source: *Internet Live Stats* (www.InternetLiveStats.com)

Elaboration of data by *International Telecommunication Union (ITU)*, *World Bank*, and *United Nations Population Division*.



Internet user Indicator ?

- #13 in the World. #5 in Asia. #2 in Asean.
- #3 in the top of 20 countries with highest Internet development rate.



#	Country	Internet Users (2016)	Penetration (% of Pop)	Population (2016)	Non-Users (internetless)	Users 1 Year Change (%)	Internet Users 1 Year Change	Population 1 Y Change
1	China	721,434,547	52.2 %	1,382,323,332	660,888,785	2.2 %	15,520,515	0.46 %
2	India	462,124,989	34.8 %	1,326,801,576	864,676,587	30.5 %	108,010,242	1.2 %
3	U.S.	286,942,362	88.5 %	324,118,787	37,176,425	1.1 %	3,229,955	0.73 %
4	Brazil	139,111,185	66.4 %	209,567,920	70,456,735	5.1 %	6,753,879	0.83 %
5	Japan	115,111,595	91.1 %	126,323,715	11,212,120	0.1 %	117,385	-0.2 %
6	Russia	102,258,256	71.3 %	143,439,832	41,181,576	0.3 %	330,067	-0.01 %
7	Nigeria	86,219,965	46.1 %	186,987,563	100,767,598	5 %	4,124,967	2.63 %
8	Germany	71,016,605	88 %	80,682,351	9,665,746	0.6 %	447,557	-0.01 %
9	U.K.	60,273,385	92.6 %	65,111,143	4,837,758	0.9 %	555,411	0.61 %
10	Mexico	58,016,997	45.1 %	128,632,004	70,615,007	2.1 %	1,182,988	1.27 %
11	France	55,860,330	86.4 %	64,668,129	8,807,799	1.4 %	758,852	0.42 %
12	Indonesia	53,236,719	20.4 %	260,581,100	207,344,381	6.5 %	3,232,544	1.17 %
13	Viet Nam	49,063,762	52 %	94,444,200	45,380,438	3.3 %	1,564,346	1.07 %
14	Turkey	46,196,720	58 %	79,622,062	33,425,342	5.1 %	2,242,750	1.22 %
15	Philippines	44,478,808	43.5 %	102,250,133	57,771,325	4.4 %	1,855,574	1.54 %
16	South Korea	43,274,132	85.7 %	50,503,933	7,229,801	1.2 %	522,375	0.42 %

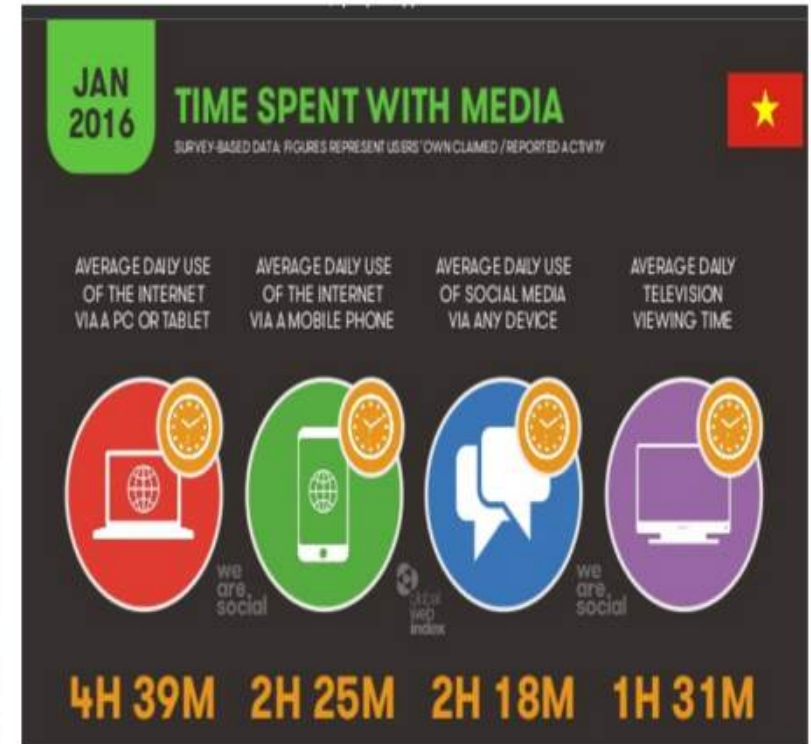
<http://data.worldbank.org/>

<http://www.internetlivestats.com/internet-users-by-country/>
July 1 2016 Estimate



Internet user Indicator

The Internet contribute huge for development of life in Vietnam, in all aspect of society.

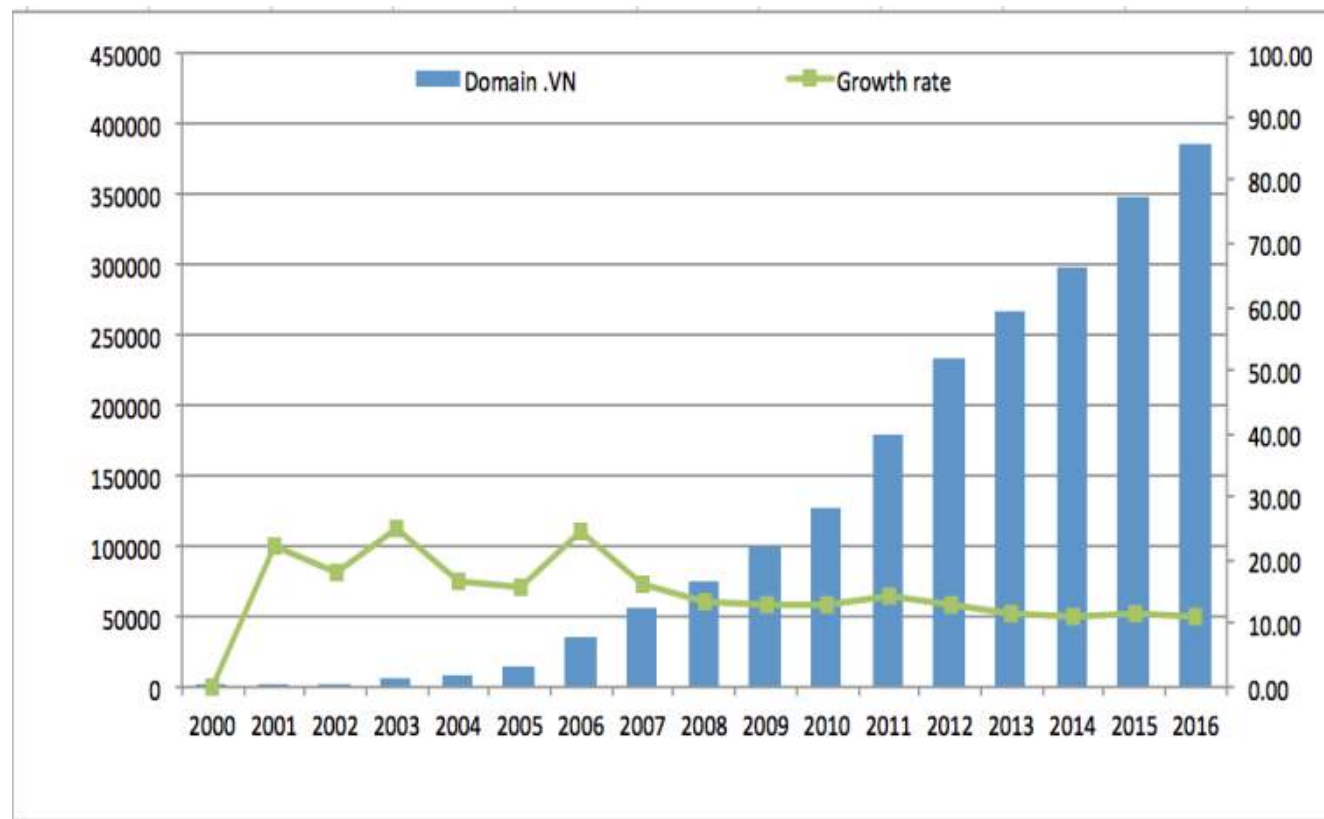


<http://wearesocial.com/special-reports/digital-in-2016>



Internet Identification Indicator – Domain .VN

- #1 ASEAN;
- #8 ASIA.
- 411,511 .VN (at 15 July 2017) ; website: 61.85% ;
- Growth rate > 11%
- Registry-Registrar model



Source: VNNIC



Internet Identification Indicator – IPv6

- Viet Nam IPv6 day (May 6th)
- Viet Nam IPv6 Launch on May 6th 2013.
- Current time:
 - Over 1,5 million FTTH users with IPv6.
 - IPv6 adoption ~ 8%.

Use of IPv6 for Vietnam (VN)



<https://stats.labs.apnic.net/ipv6/VN>



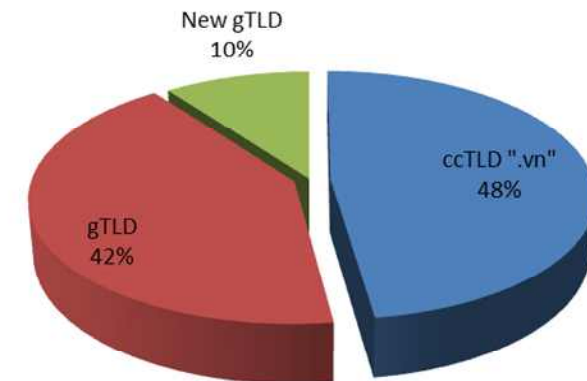
gTLD & New gTLD in Vietnam (08 April 2017)

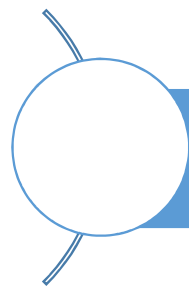
- gTLD: 346.309 (webhosting.info)
- New gTLDs: 84.032

Market share for “.vn” ccTLD, gTLD and New gTLD in Viet Nam



Phân bố thị phần tại Việt Nam

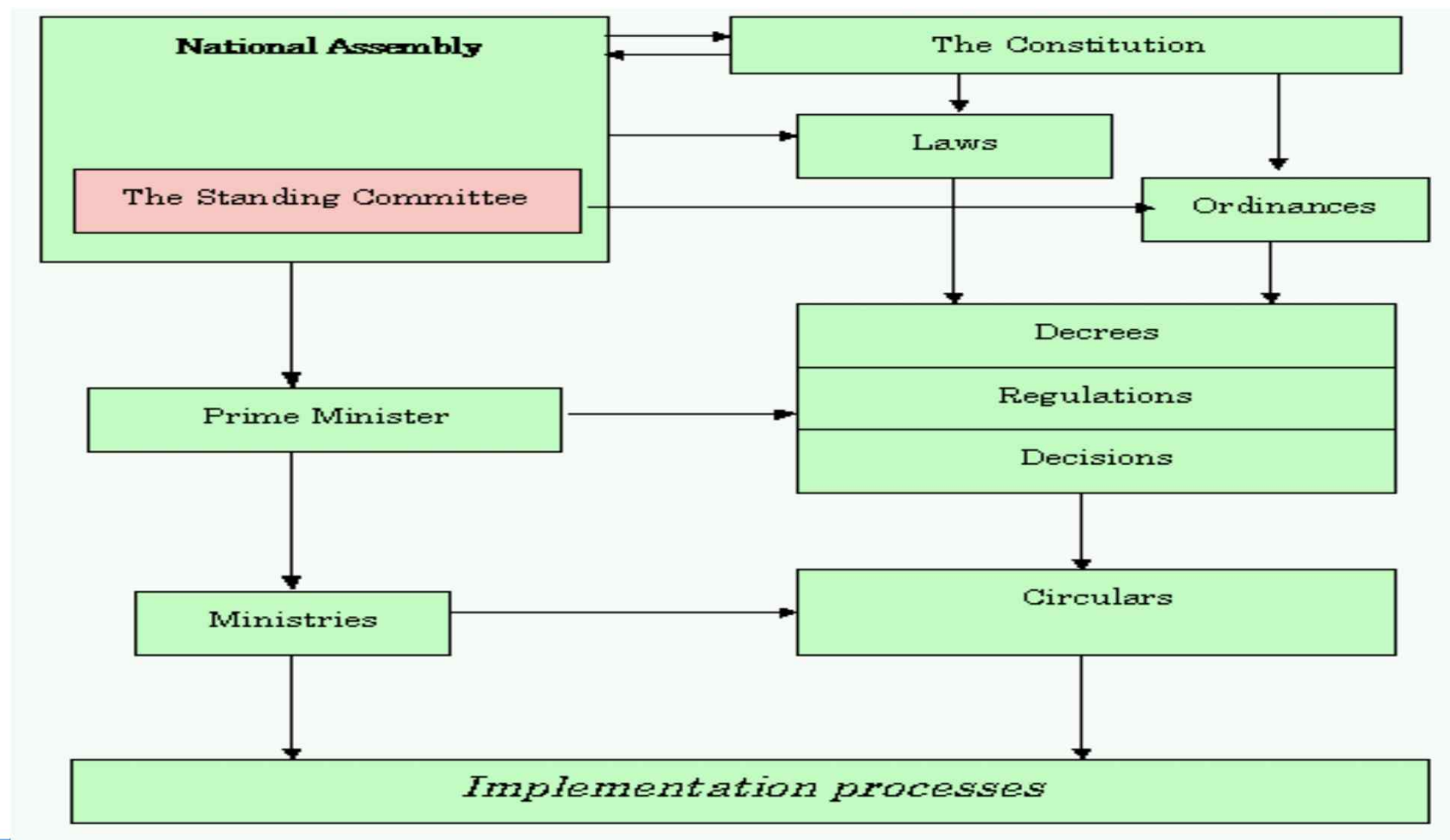




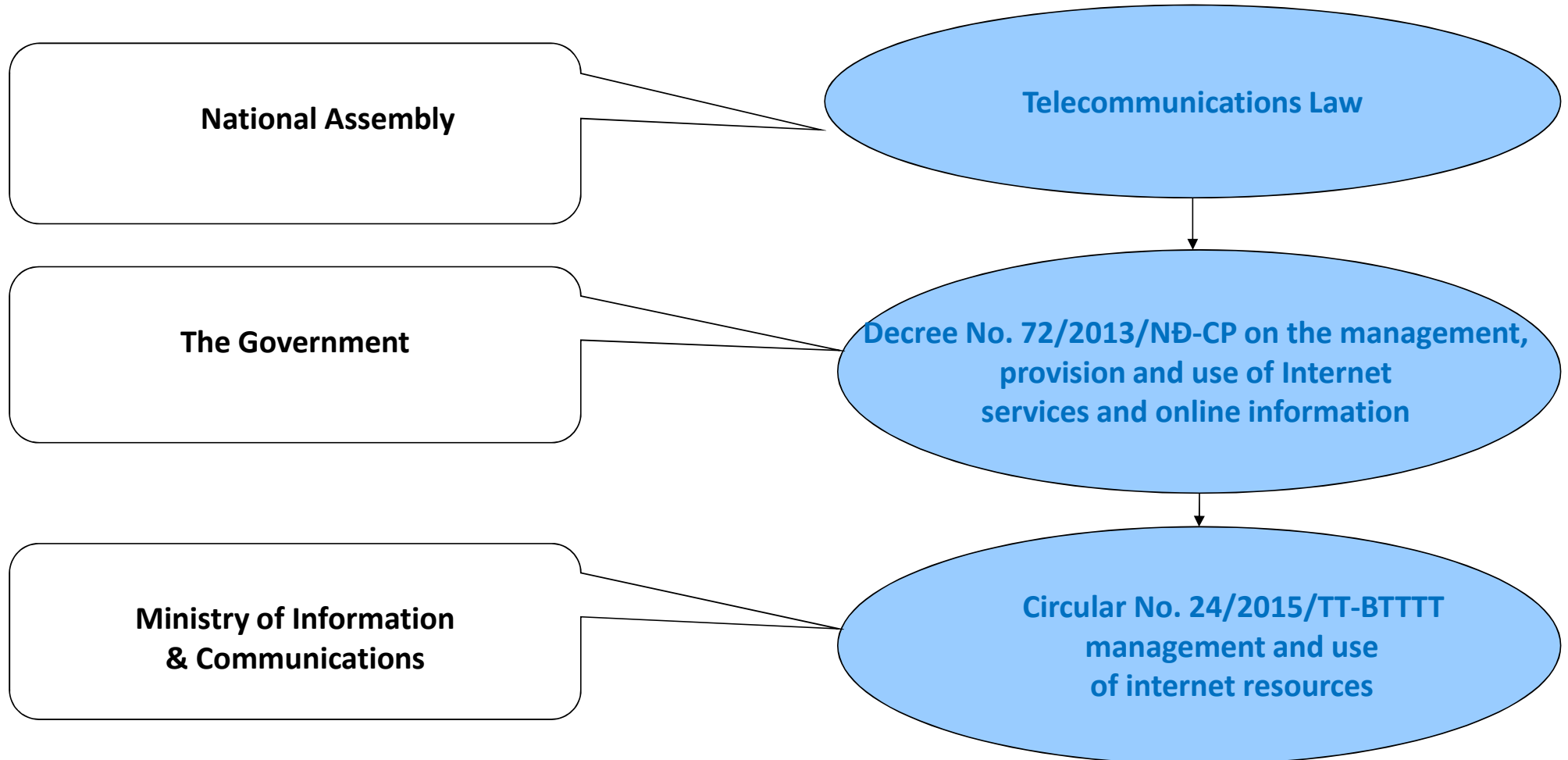
Law making body and legal system



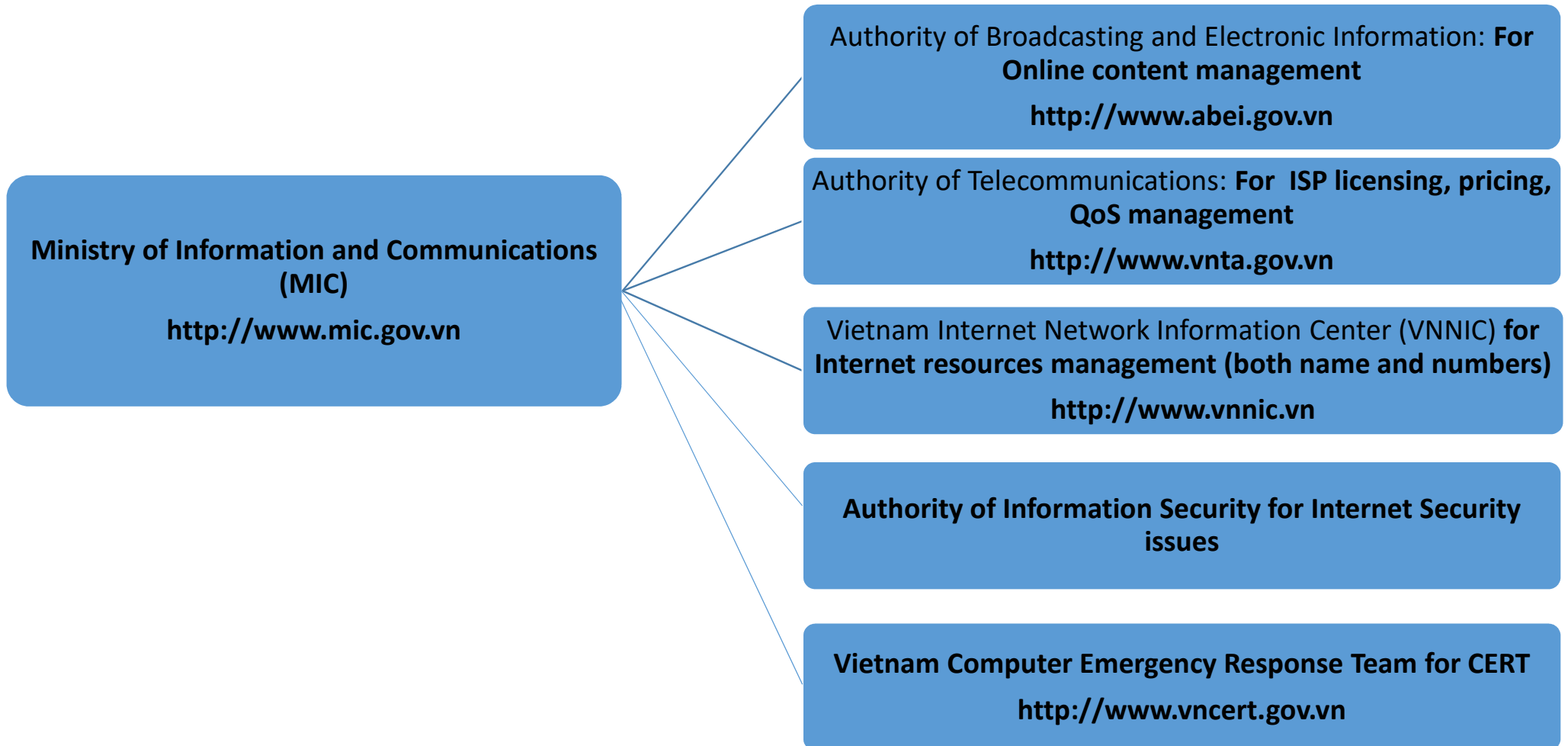
Law making body and legal system in Viet Nam



Internet and Legal documents

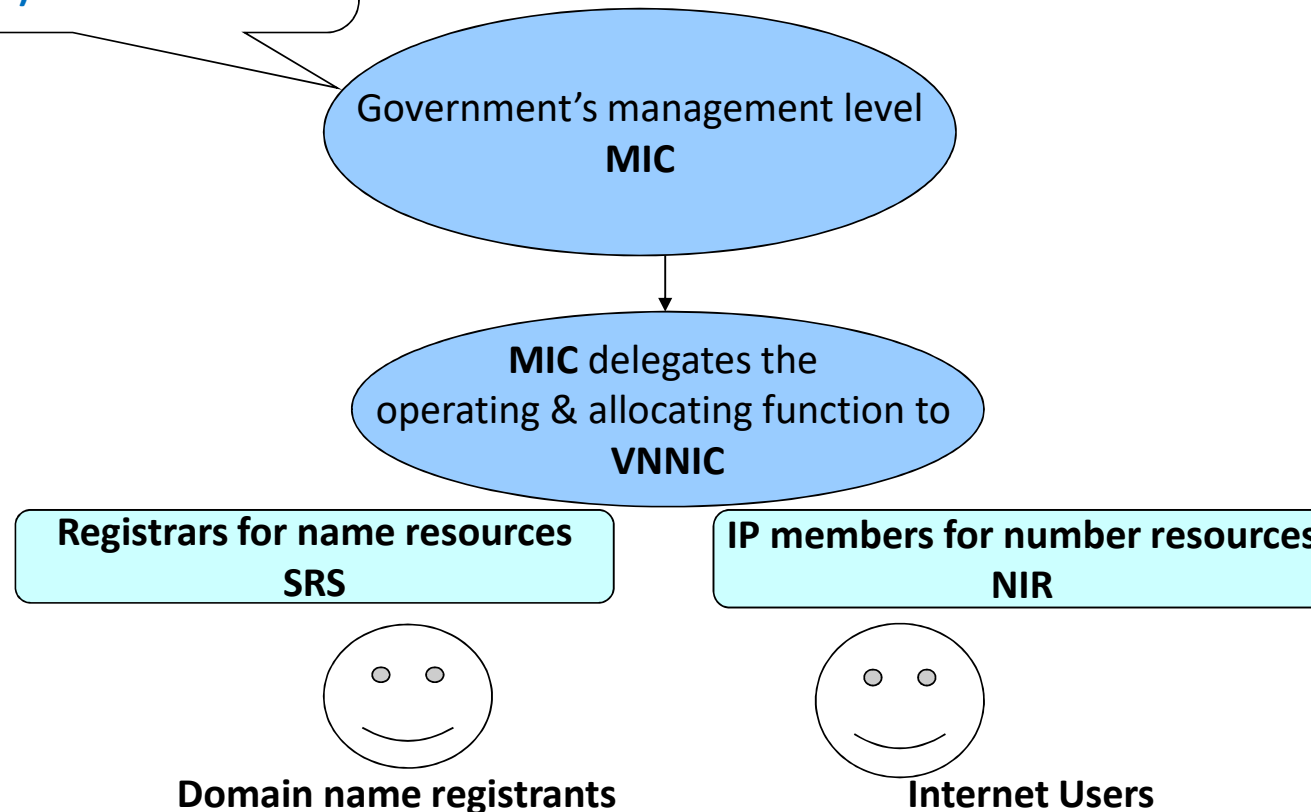


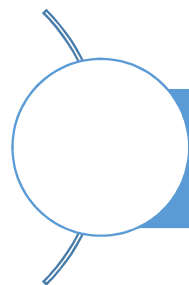
Internet and related Government authority



Internet Resources Management Model in Vietnam

Internet resources are National Telecom resources in Viet Nam (Telecom Law).





Vietnam Internet Network Information Center (VNNIC)



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Vietnam Internet Network Information Center

Position:

- VNNIC is a public service entity in Vietnam, belongs to Ministry of Information and Communication (MIC).

Function

- ccTLD registry (.VN).
- National Internet Registry (NIR).
- Internet Exchange Operator.

Office

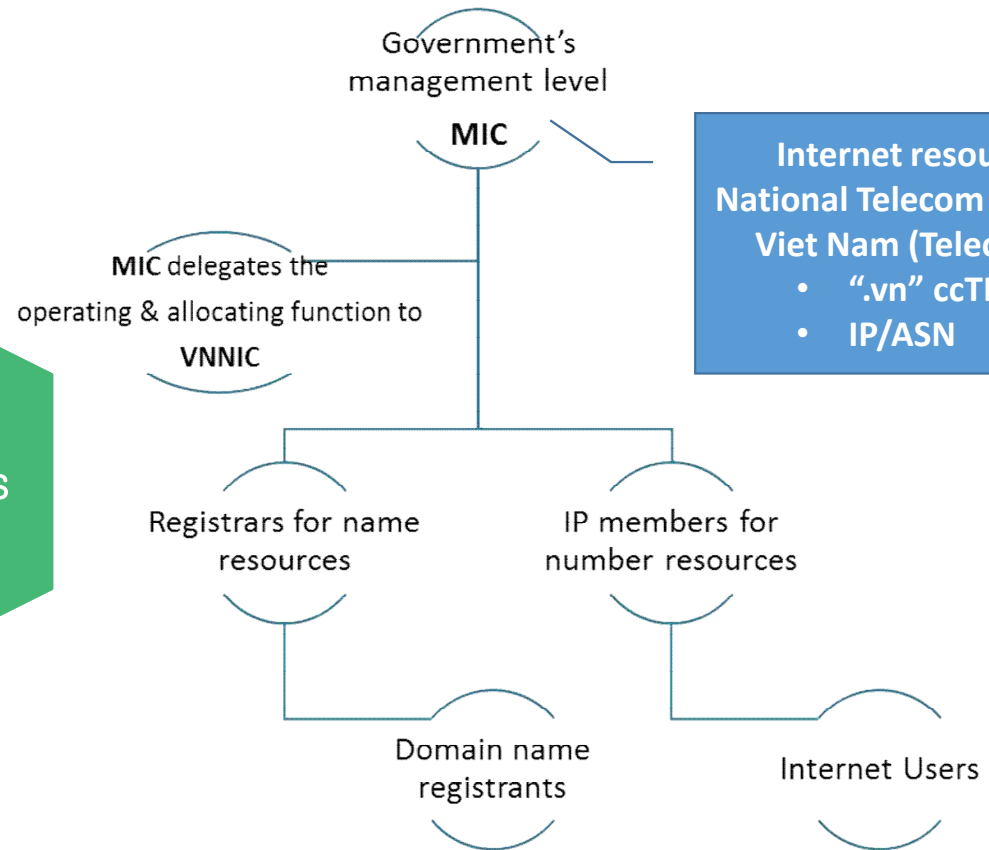
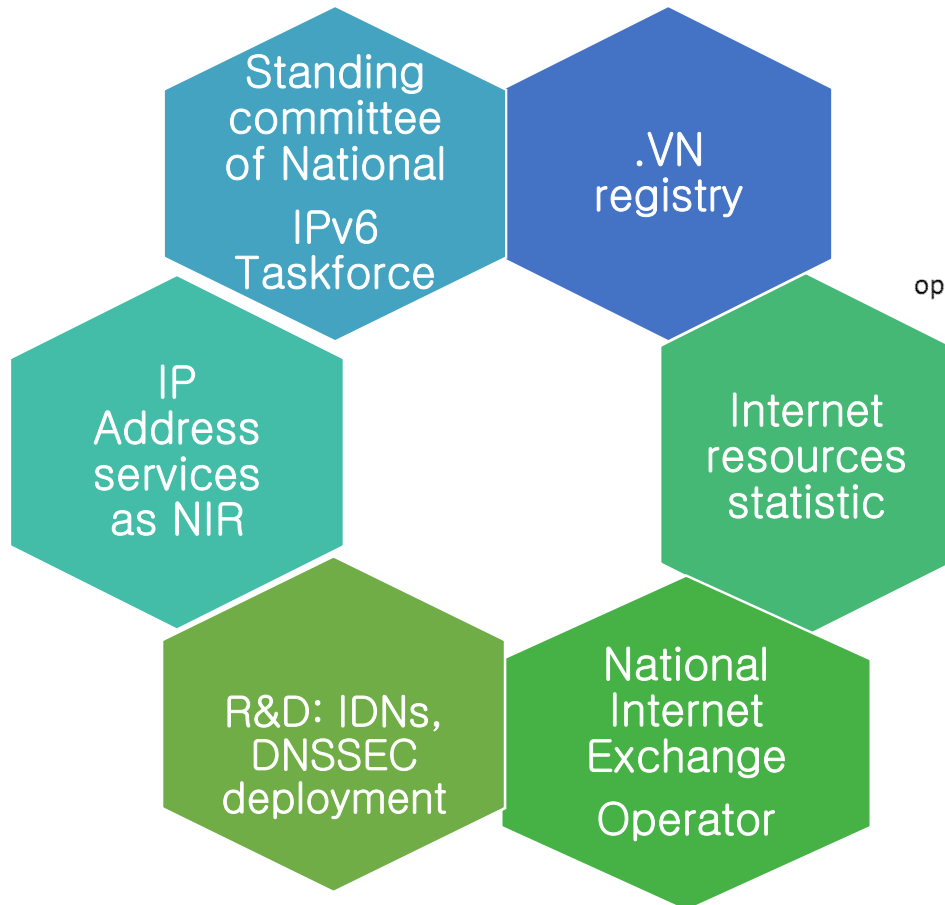
- Head Quarter in Hanoi.
- Branch in Ho Chi Minh City & Danang city.

Established in 2000



What do we do?

– List of activities/services:

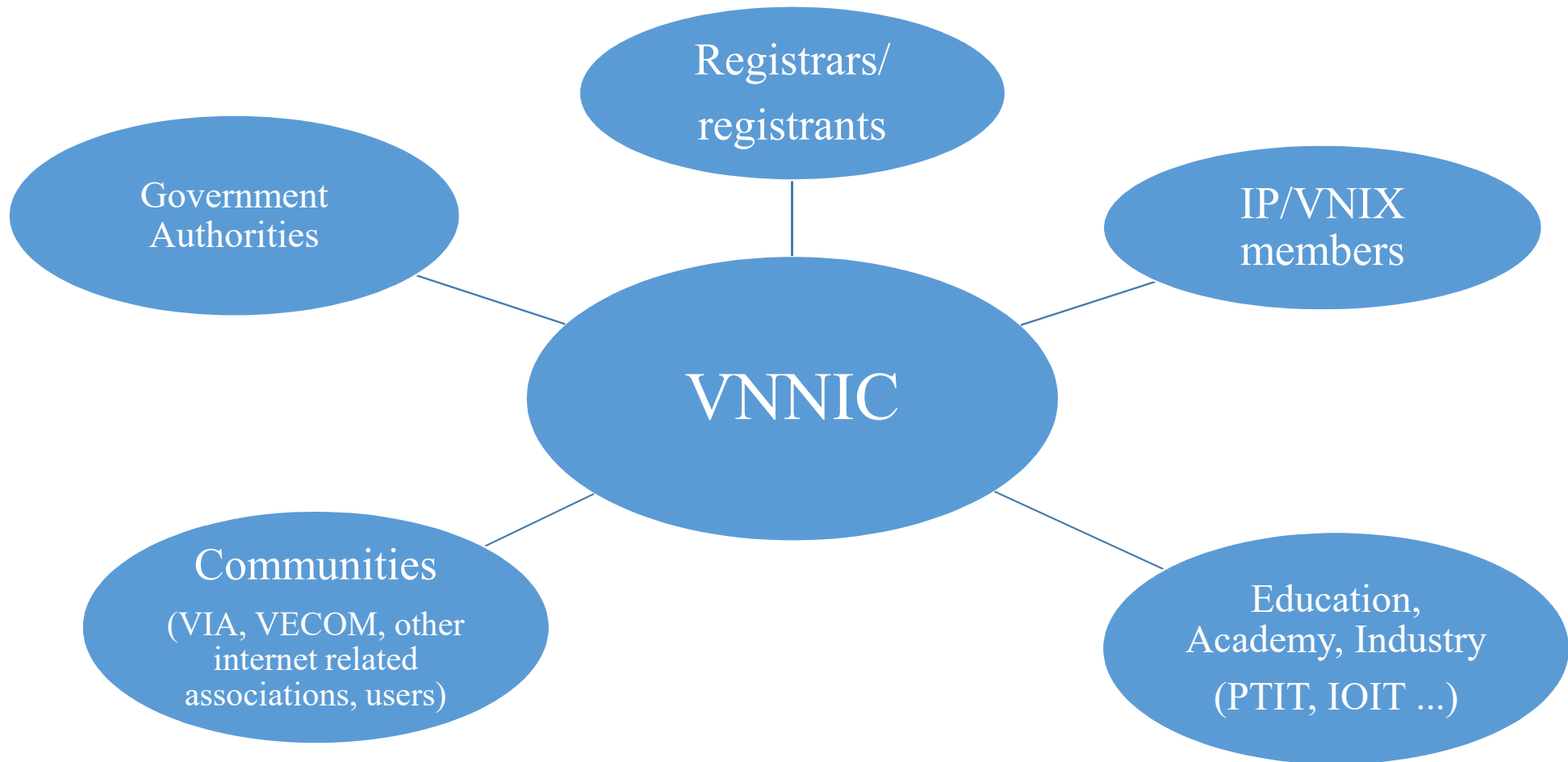


Internet resources are National Telecom resources in Viet Nam (Telecom Law):

- “.vn” ccTLD.
- IP/ASN



VNNIC's relations – domestic



VNNIC – International Cooperation



We joined APNIC in 2002/ officially became NIR member in 2003



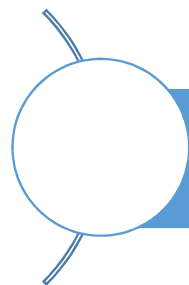
Became member in 2001.



- ccNSO: officially joined the supporting organization of ICANN on 20/11/2013.
- GAC: joined as member since Apr 2013.

- Joining in many activities of ITU-T, APT, APRICOT, APIA, APIX...
- Bilateral cooperation agreement with KISA, JPNIC, LANIC, TRC...





Internet resources management and development



Internet resources in Vietnam

- Internet resources:
 - “.vn” domain name.
 - Internet addresses (IPv4, IPv6); Autonomous number (ASN).
- Internet resources is national information resources.
 - Be set under the Government's management to ensure the stability of Internet in Vietnam.
 - Internet resources (.vn ccTLD, IP/ASN) management as a method to manage and supervise Internet operations.
- Appropriate authority: Ministry of Information and Communications (MIC).
 - Vietnam Internet Network Information Center (VNNIC) was delegated by MIC to carry out the functions of managing, allocating, supervising and promoting the use of Internet resources in Vietnam.



Legal documents

- Telecommunication Law
- Information Technology
- Decree No. 72/2013/ND-CP of July 15, 2013, on the management, provision and use of Internet services and online information.
- Circular No. 24/2015/TT-BTTTT of August 18, 2015 on the management and use of internet resources.

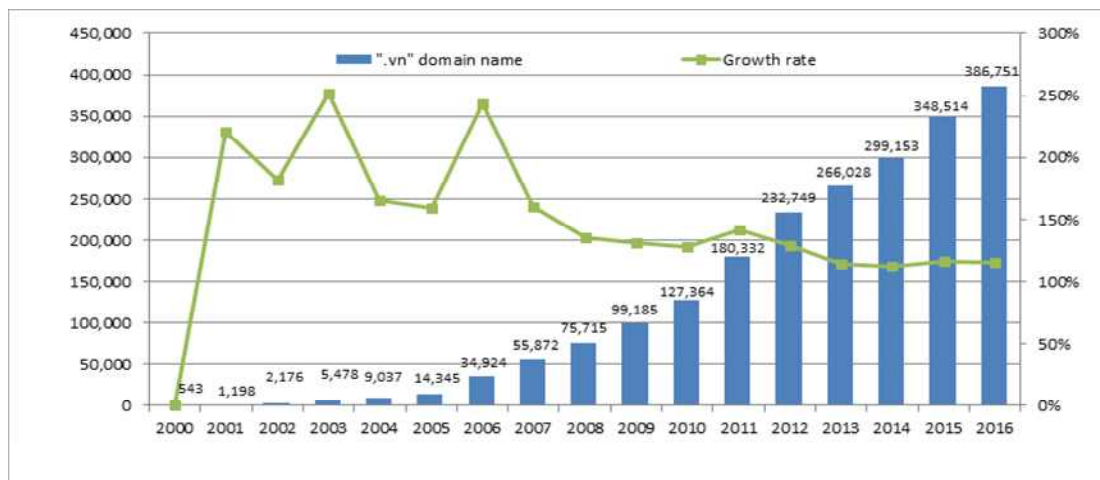


Some Principles

- It is strictly prohibited to use Internet resources for purposes of opposing the State of the Socialist Republic of Vietnam, disturbing security, economy, social order and safety, undermining the nation's fine tradition and custom, infringing upon the legitimate rights and interests of organizations and individual.
- Internet Resources that are related to Government agencies, the Party must be protected.
 - Inappropriate entities do not have right to register.

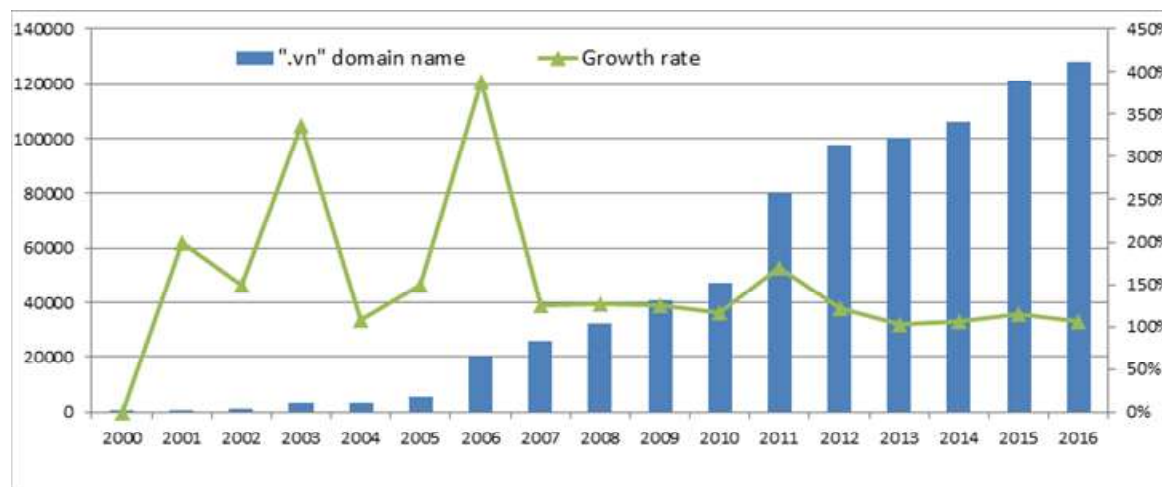


Development of “.vn”



Total number “.vn” and growth rate over years

Registration number and growth rate over years



IDN of Vietnam (IDN under .VN)

Before 2017:

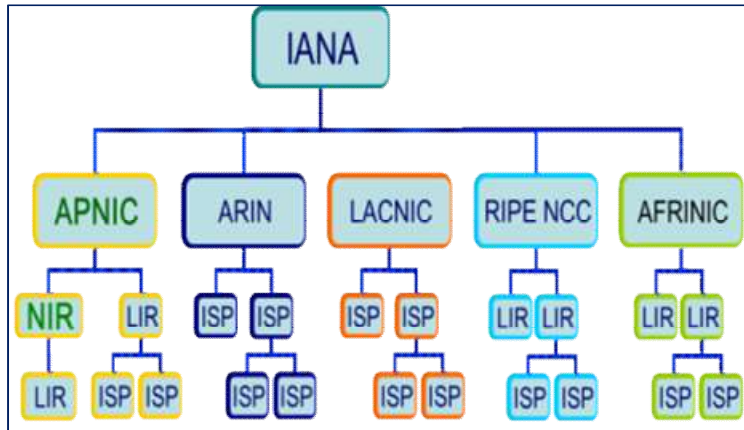
- Management directly by VNNIC
- Register Online
- Free Services Online (Web Direct, Web Template, DNS Hosting, DNS Delegation)
- Fee = 0
- Total domain names: 977,007 (by 31/10/2016)

Since 01, January, 2017:

- Switch to Registry – registrar model
- Apply a minor fee for renewal (1 USD per domain name per year) in order to recover management cost.
- 231,104 (by July 2017).



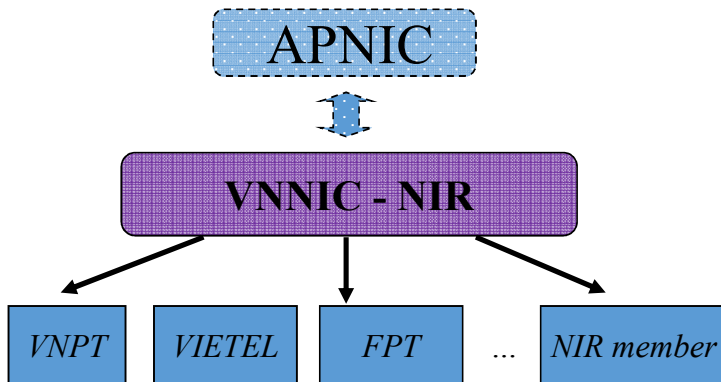
IP Management model



- IANA.
- RIR as APNIC, RIPE NCC, ARIN ...
- APNIC – Regional Internet Registry for Asia Pacific region.

In Vietnam :

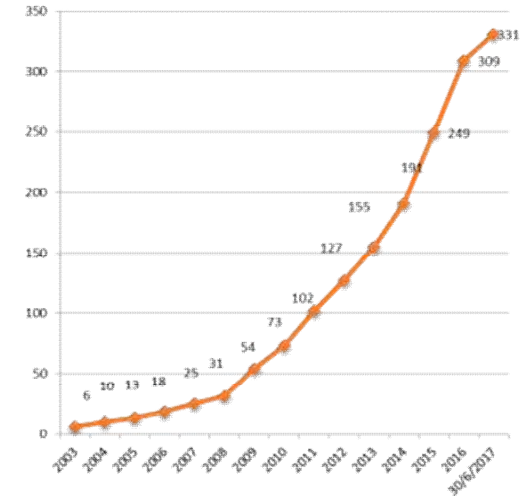
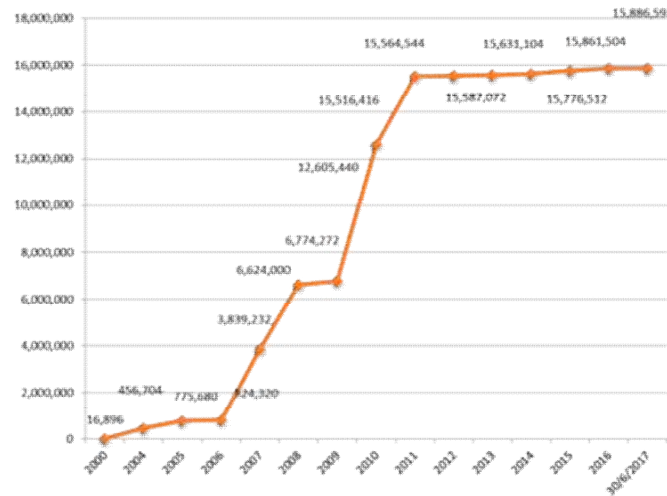
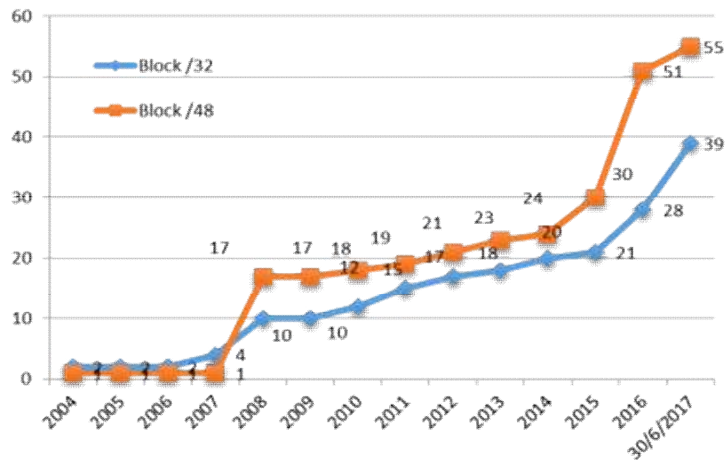
- VNNIC is governmental body who take responsibility for IP/ASN in Vietnam.
- All ISPs and organizations in Vietnam must apply for APNIC phân bổ cho VNNIC (NIR của Việt Nam) để cấp, phân bổ lại cho các ISP (/32); tổ chức khác (/48).



IP registration

July 2017:

- Total of IPv4: 15,886,592 ranking 2th in Asean, 8th in Asia – Pacific, 29th in the world.



Total of IP member: 331.

Total of IPv6: 39 block /32s and 55 blocks /48.

Total of member with IPv6: 84.



Our vision



- The Internet is essential part of society.
- Internet is un-deniable.
- We need to improve ourself to be adaptive and we all take responsibility to contribute to Internet. So that its good side absolutely dominate the bad one.



- We travel by bicycle in 1970, by motor bicycle in 1990 and now car is getting popular. Bicycle is easier but slower than motor bicycle. Car is most difficult to drive, but fastest.



THANK YOU

All things is better when
we go together

