

Vietnam Computer Emergency Response Team

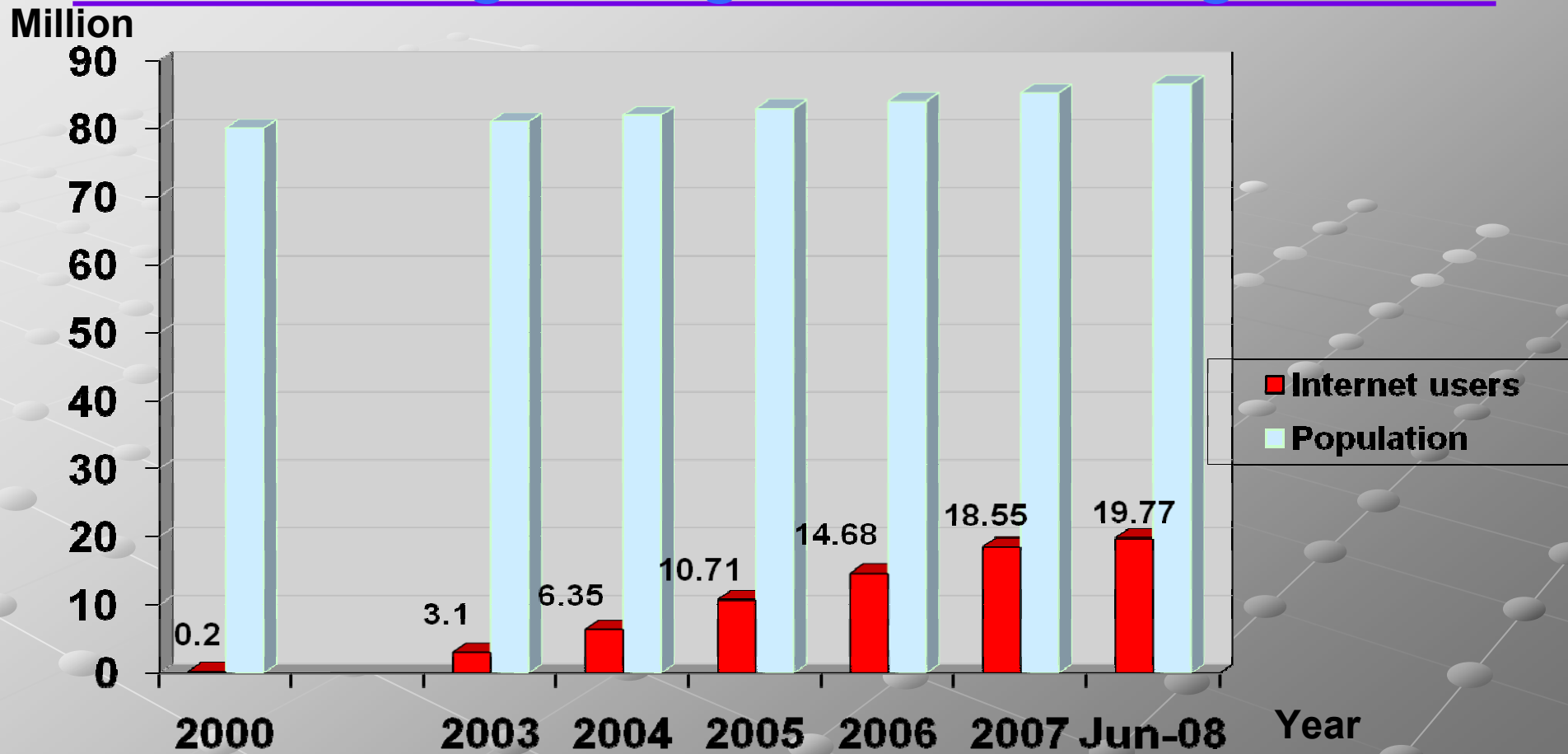
Establishing National Incident Response Capability for Viet Nam - *VNCERT activities and challenges*

Vu Quoc Khanh,
Director General of VNCERT



Cybersecurity situation in Viet Nam

Fast-growing Internet Usage

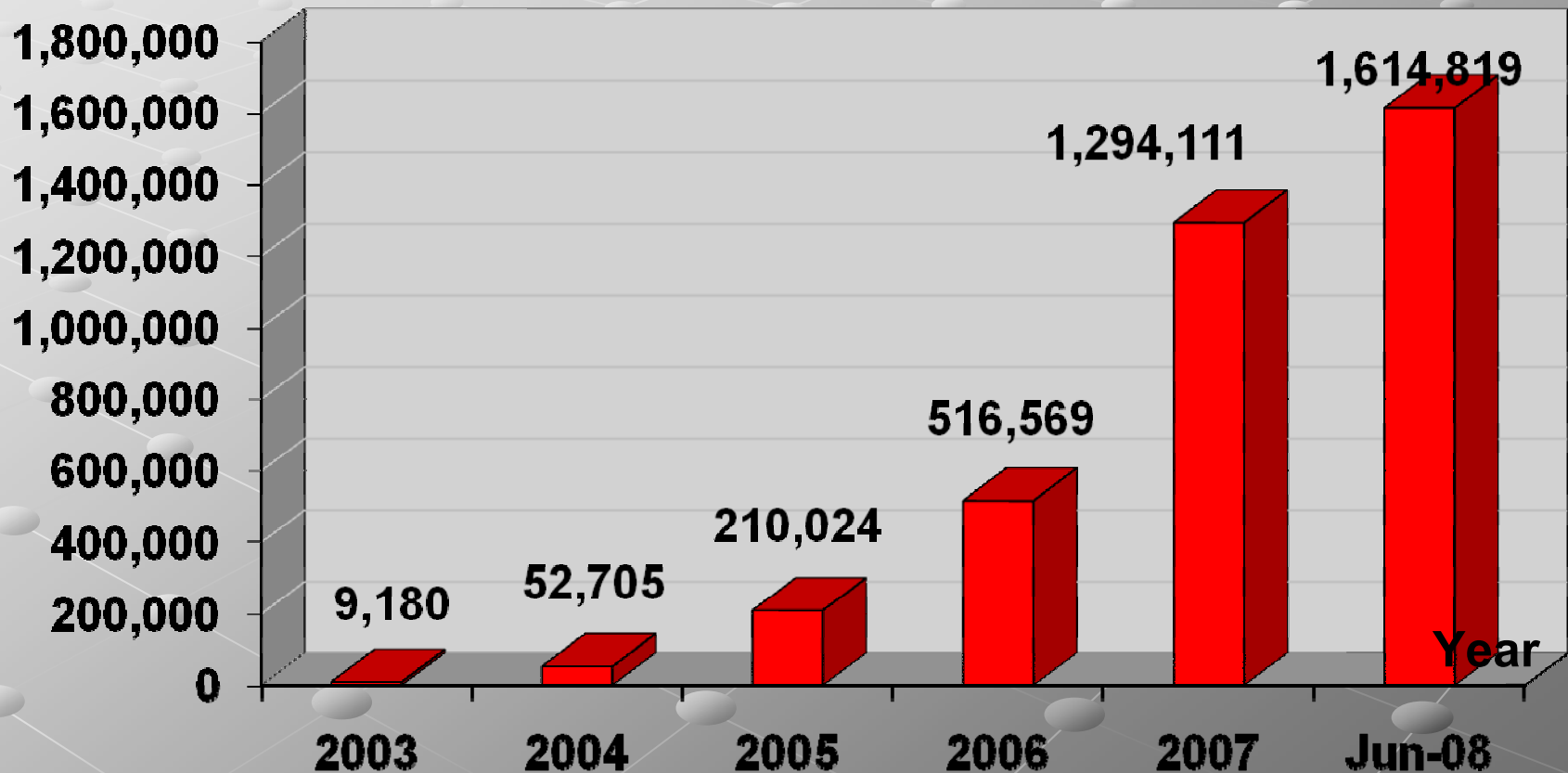


Internet eXchange service Providers (IXP) : 7
Internet access Service Providers (ISP) : 15
Internet Online Service Providers (OSP) : 19

Source: VNNIC

Fast-growing Internet Usage

High speed Internet subscribers



Some statistics

Internet Usage Statistic (06/2008)

Number of convert subscribers	5,834,289
Internet Users	19,774,809
Penetration Ratio	23.50%
Total Internet bandwidth	18,188 Mbps
Total flow volume exchanged by VNIX (IPX)	24,331,984 Gbytes
Total number of .vn domains	74,625
Total number IP addresses issued	3,852,800
Number of high speed internet subscribers	1,614,819

New technologies and services

- New technologies:
*Broadband, Wireless and Wimax,
NGN, IP-Phone, IP-TV...*
Convergent services
- E-Government
- E-banking, finance, securities
- E-Business, E-commerce
- Game online, TV online

Internet security situation

● Cyber security Incidents

- Attack incidents: virus, web hacking, DoS & DDoS attack, spam...
- Computer crimes: ATM & credit cards theft, Mobile phone account robbery, Attack to competitive company, Slander
- Trends: statistics follow the common rule in the developed countries.

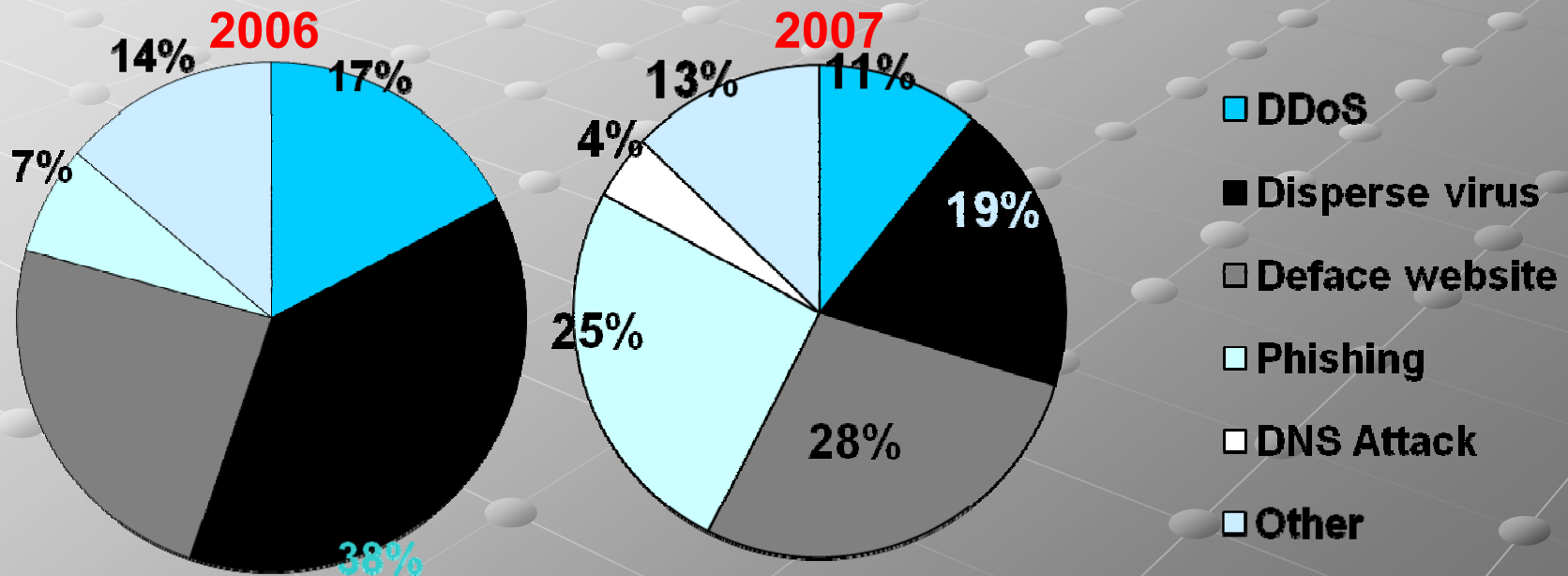
● Cyber security environment

- Information security services
- Changes in legal environment

Network security incidents

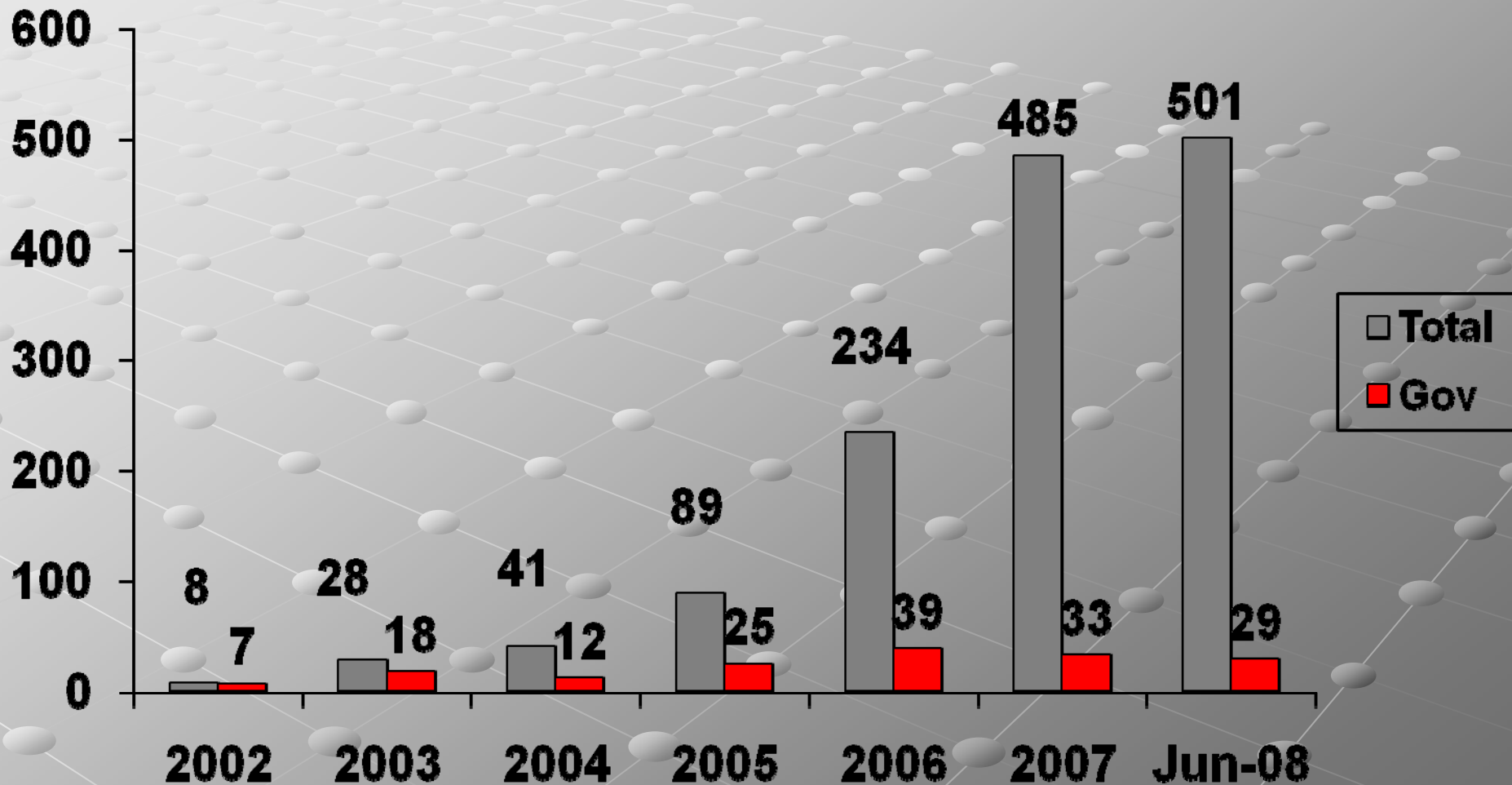
To the end of 2007

- Serious reported incidents: 29 (2006), 49 (2007)
- Types of serious incidents



Source: VNCERT

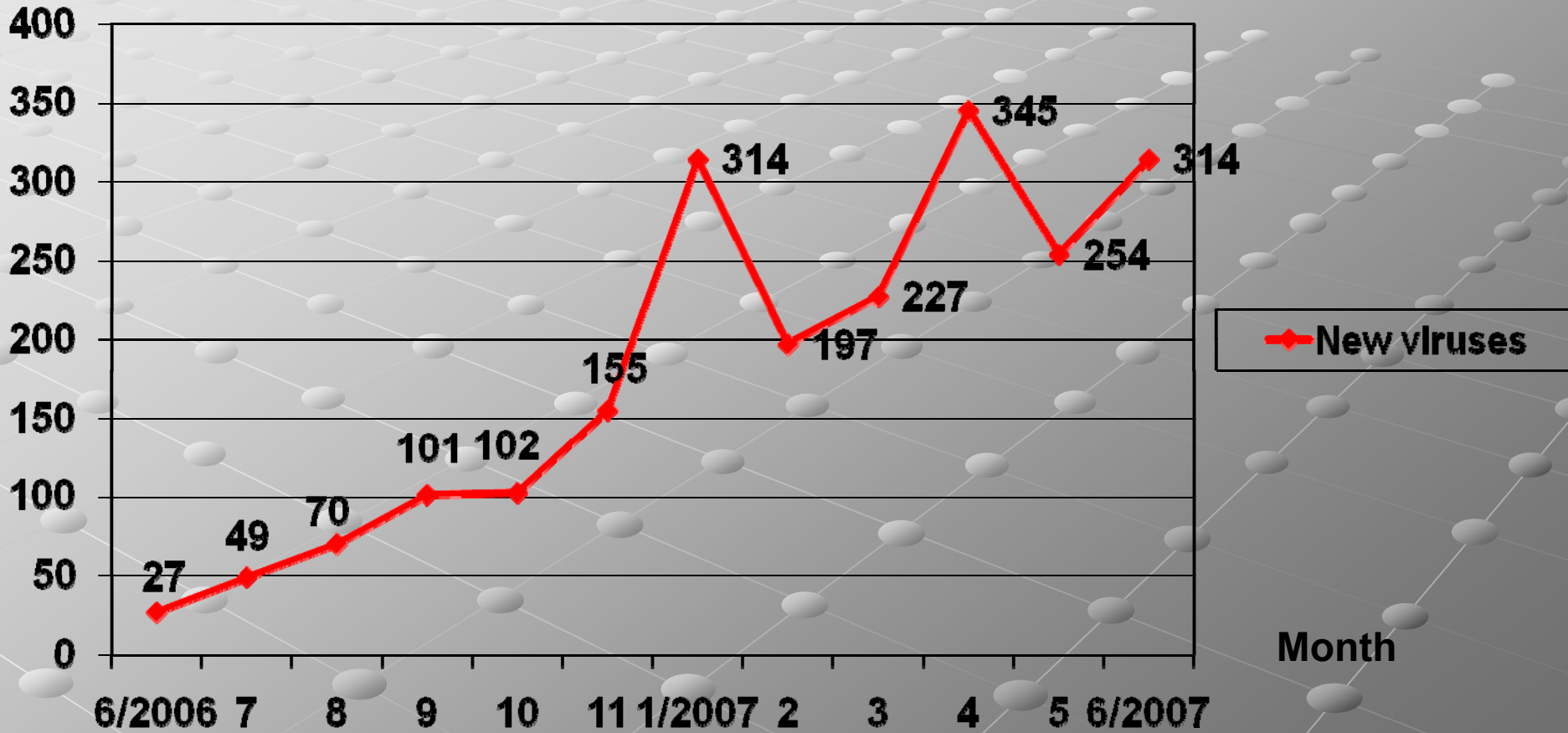
Attacks from overseas



Source: Zone-H

Computer virus booming

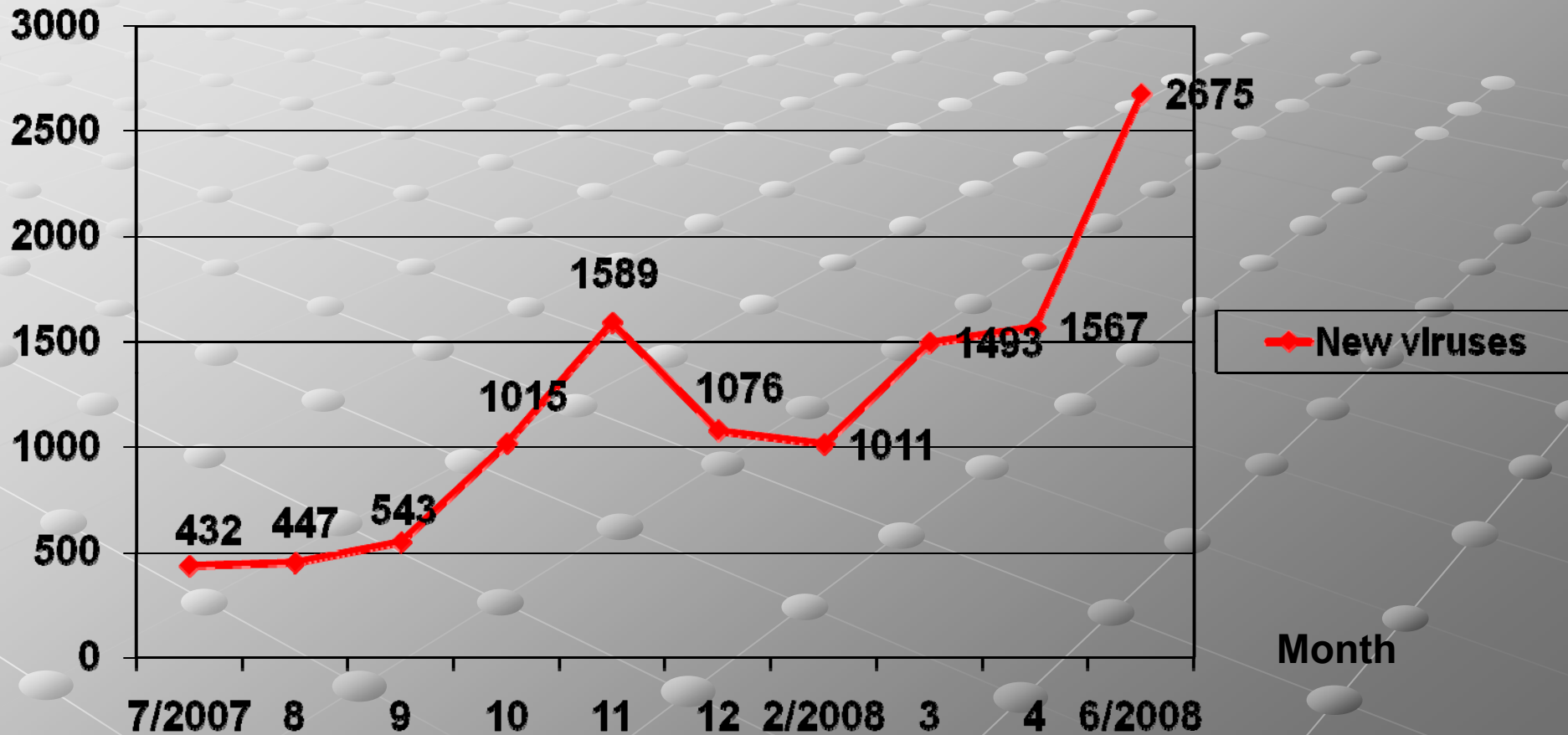
New viruses appearance in period 6/2006-6/2007



Source: BKIS

Computer virus booming

New viruses appearance in last 12 months



Source: BKIS



VNCERT activities and challenges

VNCERT

- **Official Team Name:**
Vietnam Computer Emergency Response Team
- **Short Team Name:**
VNCERT
- **Host Organization:**
**Ministry of Information and Communications (MIC)
of Socialist Republic of Viet Nam**

Authority for cybersecurity

1. By Prime Minister's Decree No. 339/2005/QĐ-TTg, dated 20 December 2005, VNCERT is

- *a department of the MIC (old name: MPT),*
- *coordinating the activities in computer's incident response, early warning,*
- *building standards and conformity in network security,*
- *facilitating the development of CERT/CSIRTs in Viet Nam,*
- *being a contact point with foreign CERTs.*
- *advising the Minister of MIC in regulation and policy of security issues in ICT areas.*

2. MIC Minister's Decision No. 13/2006/QĐ-BBCVT, dated 28 April 2006 defines the duties, functions and organization structure of VNCERT.

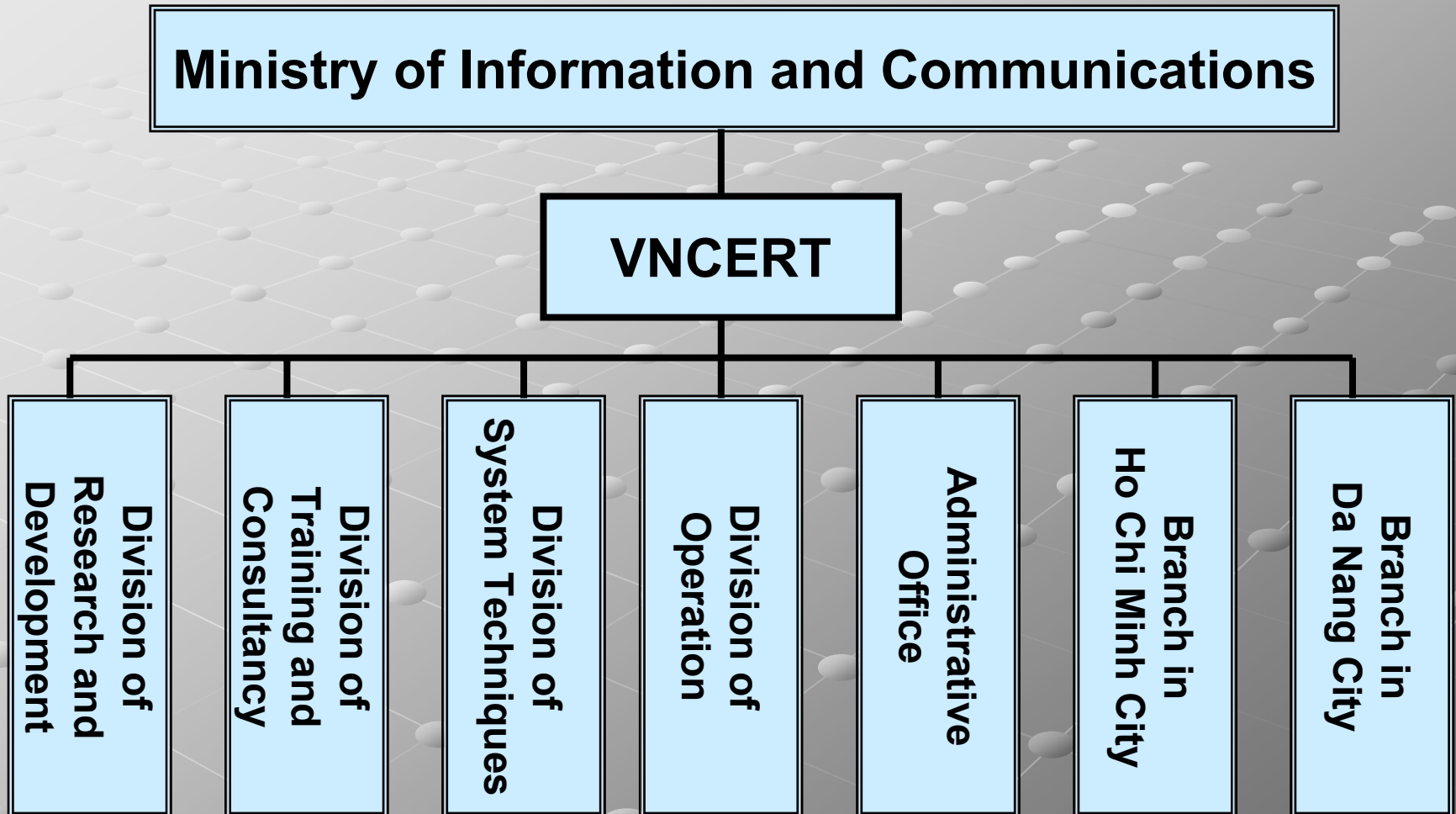
Role and responsibility of VNCERT

- 1. Coordinating all emergency activities for handling information security incidents and participating in preventing cybercrime and cyber-terrorism in Vietnam and within international framework of cooperation .**
- 2. Collecting information of cybersecurity, collecting and analyzing cybersecurity data in Vietnam to facilitate information security management at state level. Monitoring the Internet in order to provide early warning.**
- 3. Collecting and analyzing information security technologies and solutions in order to recommend to the internet community.**
- 4. Carrying out research and cooperation with legislative organizations in order to build information security technical standards,.**
- 5. Promoting the capacity of emergency incident handling and establishing the network of CERTs in the country.**

Role and responsibility (cont...)

- 6. Participating in international organizations and cooperating with international CERTs.**
- 7. Participating in state-management in the activities of information security associations and non-government organizations.**
- 8. Having the right to provide technical security auditing service for information systems and information security products and technologies.**
- 9. Having the right to provide other services in research, consultation, deployment, production and storage services to provide information network security.**
- 10. Executing other Ministry's duties.**

Organization structure



Location map

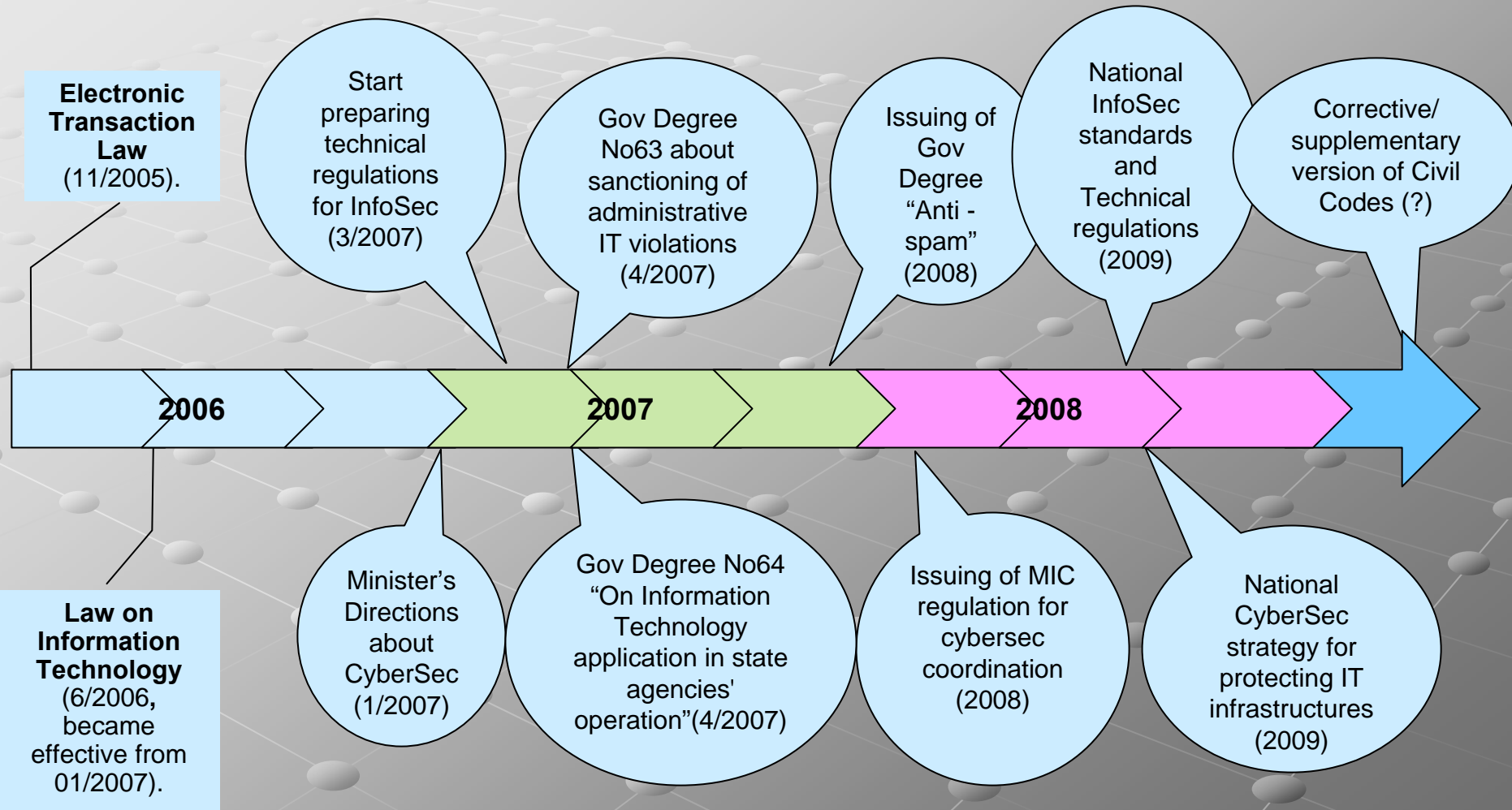
- **Head quarter:
Hanoi Capital**
- **Branch 1 in Ho
Chi Minh City
(7/2008)**
- **Branch 2 in Da
Nang City (8/2008)**



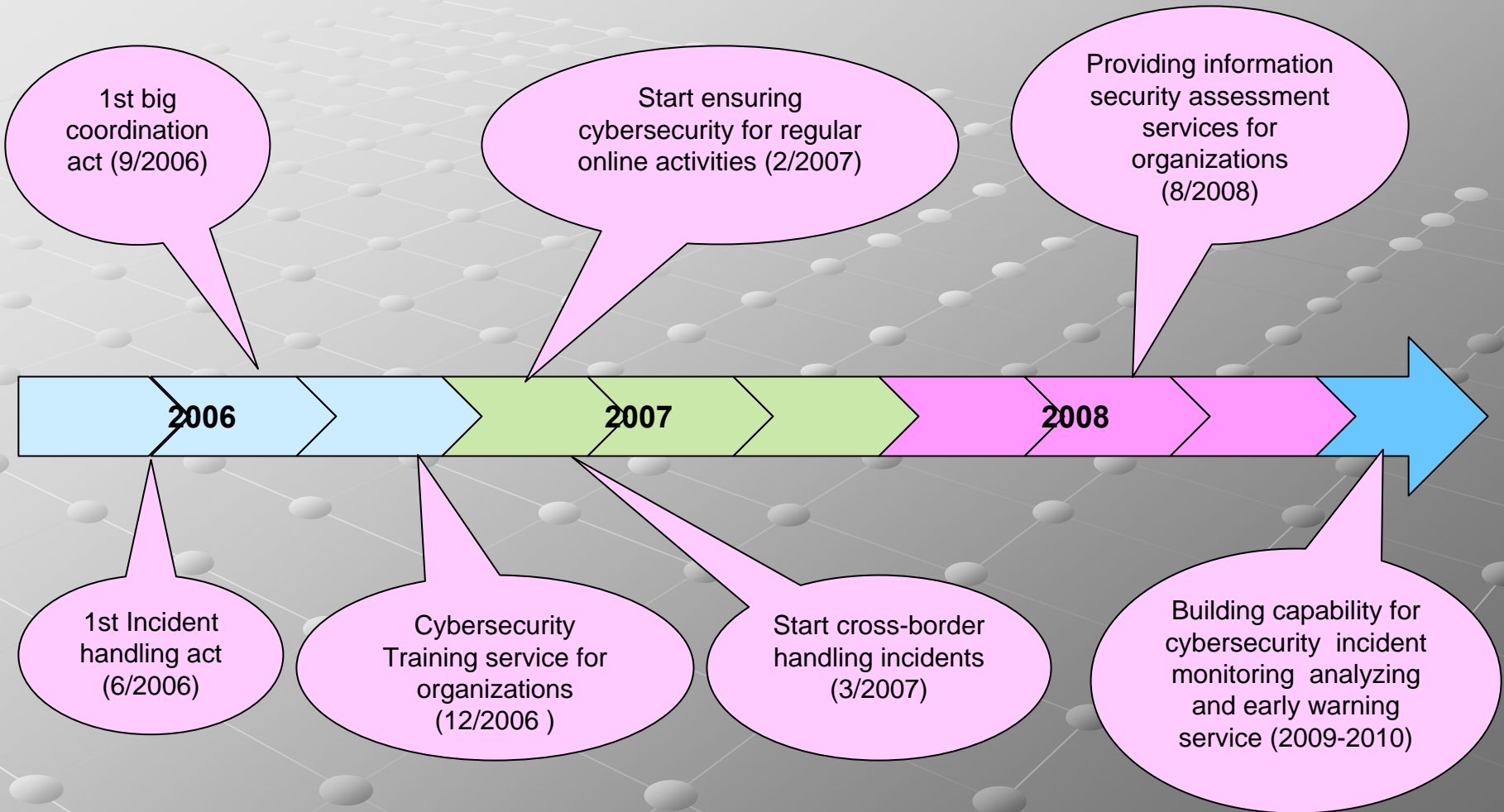
VNCERT's activities and challenges

- Activities for legal environment improvement,
- Incident response activities
- Community awareness raising activities
- Research and development activities
- Government and industry partnership

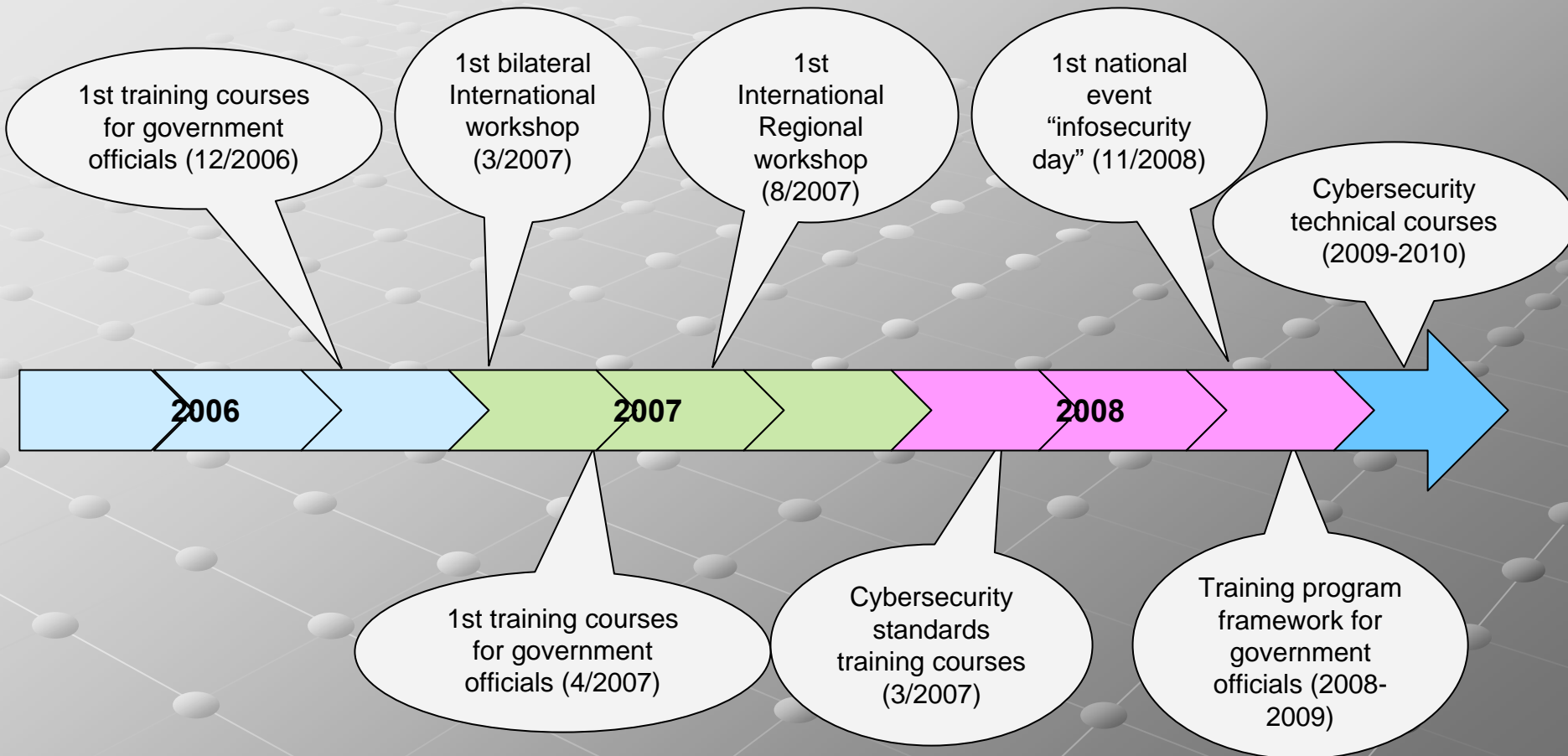
Changes in legal environment



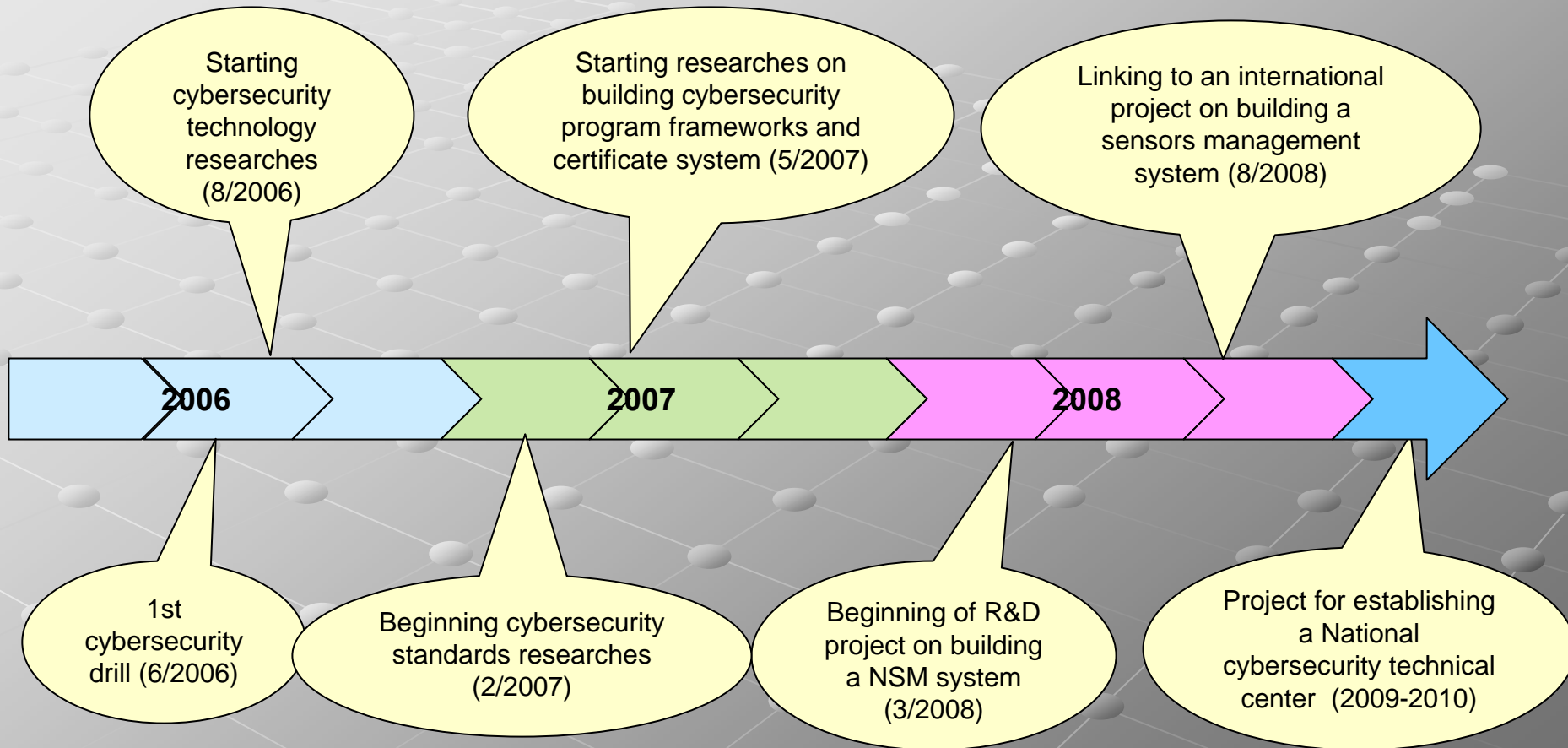
Incident response



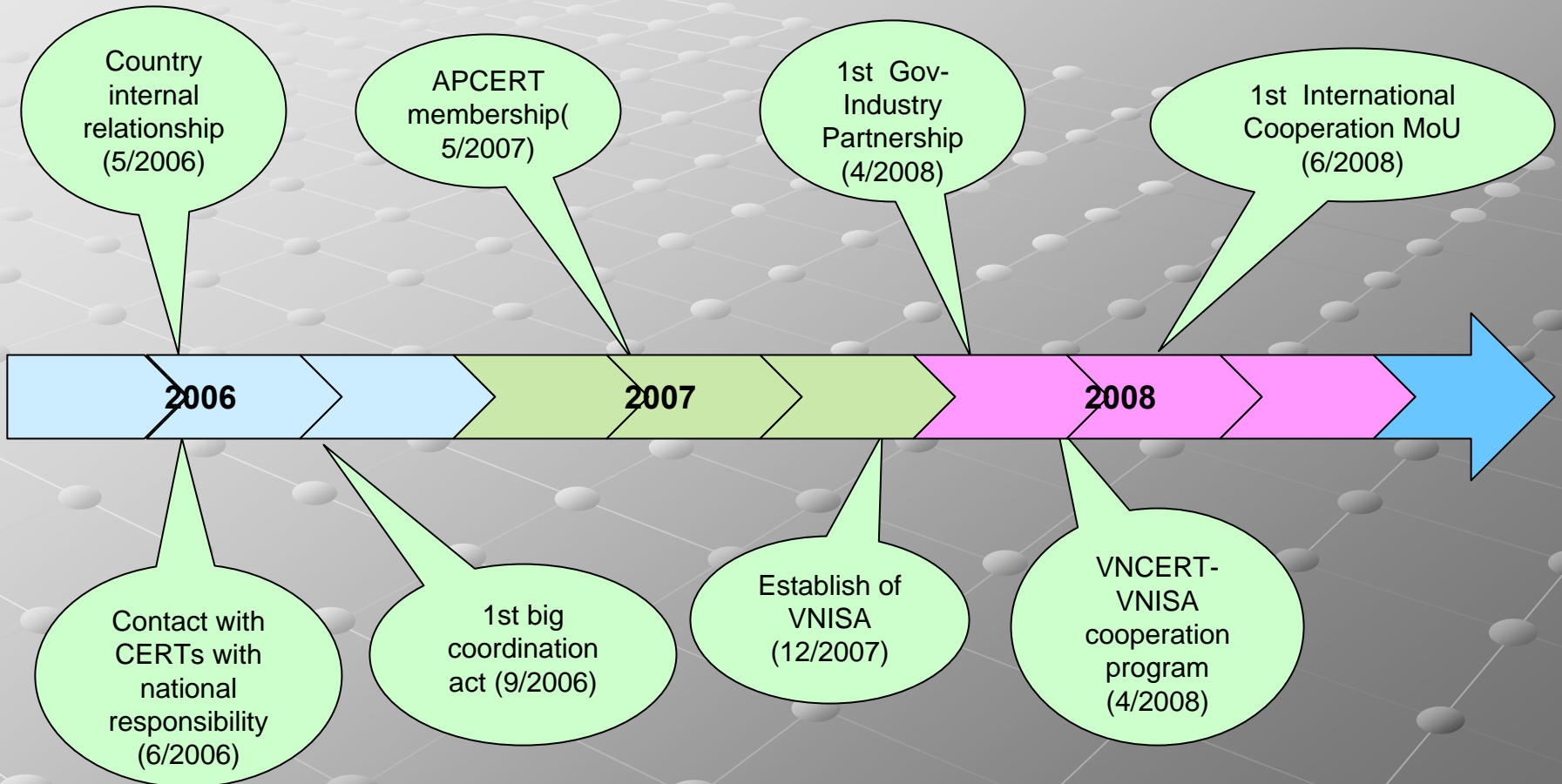
Community awareness raising activities



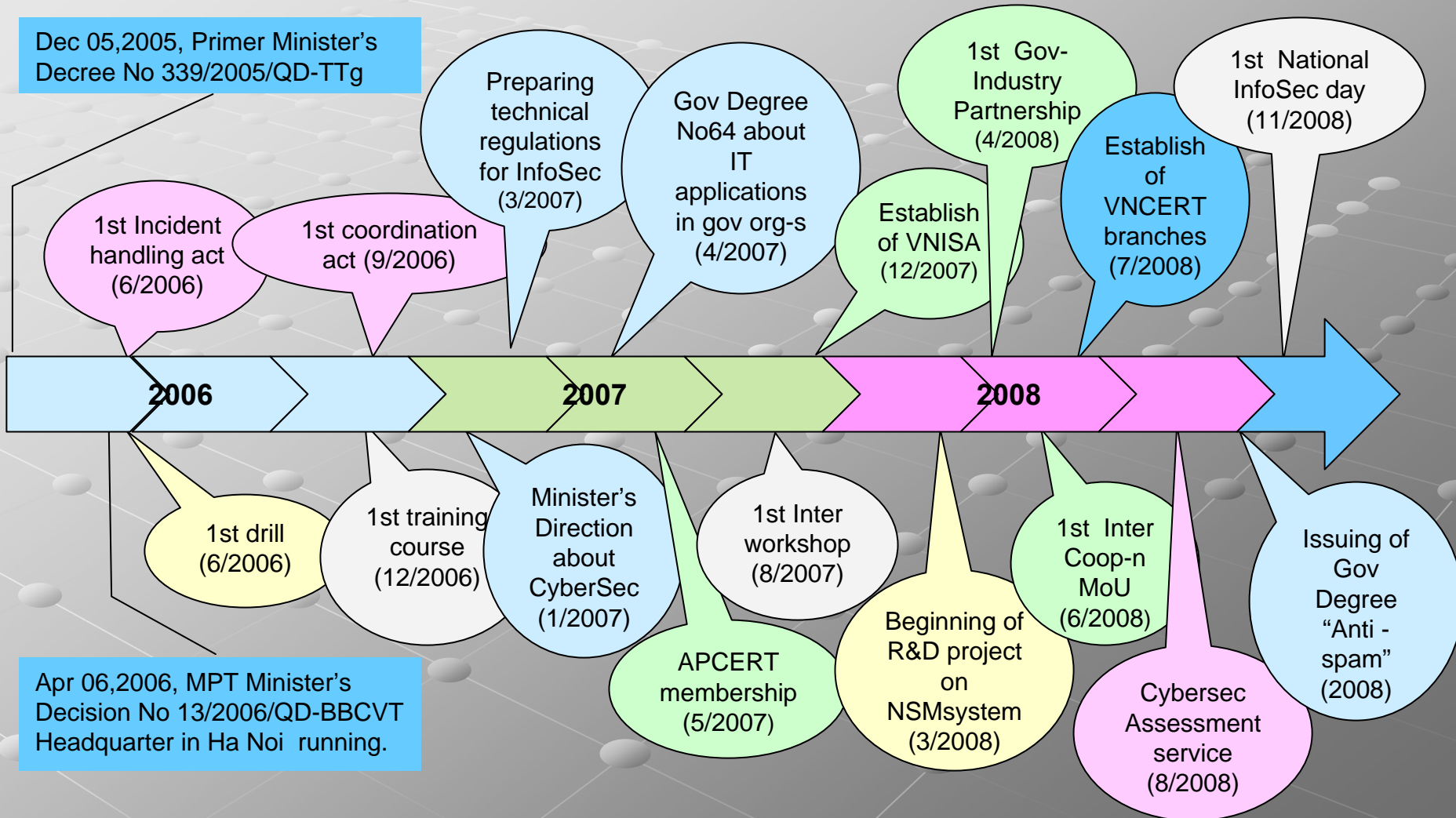
Research and development activities



Government and industry partnership



Activity beginning timeline



About challenges in Strengthening national incident response capability

What to do ahead ?

- **Cooperation and coordination network** (Need a regulation for coordination activities, internal cooperation scheme, international cooperation and collaboration)
- **Research and security specialist training** (drills, training programs, cybersecurity events, researching works....)
- **Developing a R&D project for setting up a network security monitoring system (NSMS)**
- **Building a National cybersecurity technical center**
- **Developing a national strategy for CIIP**

About challenges

● Main difficulties

- + Practical emptiness in legal environment
- + Lack of Technical cybersecurity facilities
- + Budget limitation
- + Human resources shortage.

● How can we overcome?

- + Take a advanced role in researching and drafting of legal and policy documents
- + Synchronous implementation of activities of all types from lower level to higher step by step
- + Develop continuous R&D program
- + International cooperation and collaboration is a short way

VNCERT contact Information

● Regular Phone Number

Time-zone (relative to GMT): GMT +07:00

IDD Telephone number: +84 4 64044 23/24

IDD Facsimile Number : +84 4 64044 25/27

Days/hours of operation: 8AM-5PM

● Emergency Phone Number

IDD Telephone number: +84 91869 9652

Days/hours of operation: 24/7

● Other Communication Facilities

Internet Domain Name: *.vn

Email Address: office@vncert.vn, vncert@mic.gov.vn

World Wide Web Server: <http://www.vncert.gov.vn>

Thank You for your attention!