

Japanese Information Security Status - Environment and Policies -

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Kei Harada

IT Security Center (ISEC)

Information-technology Promotion Agency, Japan (IPA)

? This document is based on public information, including the site of the Prime Minister of Japan and his Cabinet (<http://www.kantei.go.jp/>), etc. ? This translation is not official, but provisional.

- ◆ **Introduction**
- ◆ **Japan's Information Security Environment**
- ◆ **Japan's Government Policies**
- ◆ **Conclusion and Next Step**
- ◆ **Reference, Contact Information**



IPA Information-technology Promotion Agency, Japan

Quasi-governmental organization under Ministry of Economy, Trade and Industry (METI),
IPA will be restructured into “Independent Administrative Institution” **Established:** October, 1970

Mission: Information processing technology promotion **Personnel:** About 170

R&D and Support

- ◇ IT Security Technology
- ◇ Advanced Software Technology
- ◇ E-Commerce Technology
- ◇ E-Government Support

Credit Guarantee

- ◇ To Information Technology Company
- ◇ Development, equipment purchase

Education & Training

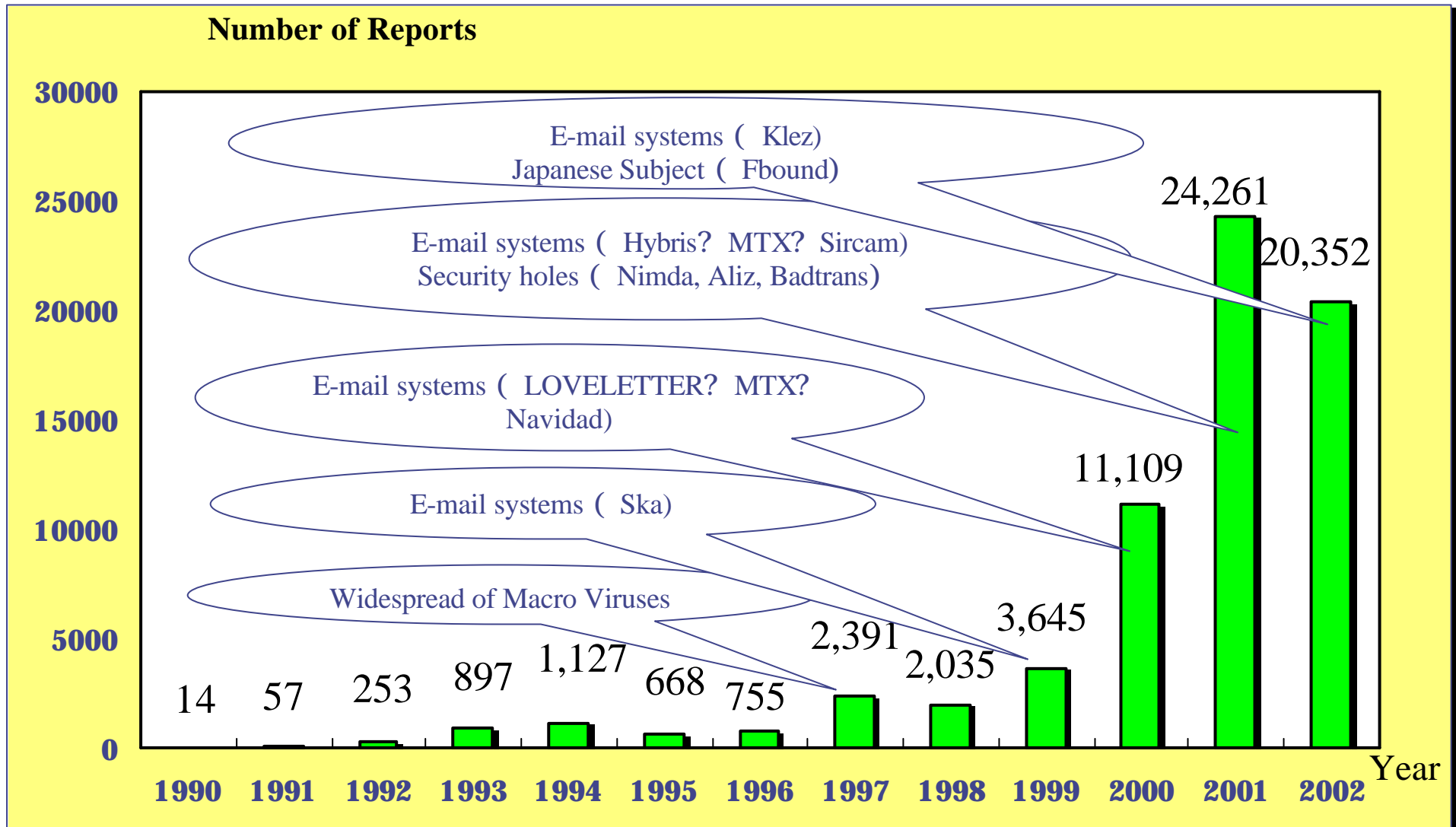
- ◇ Develop Training Materials
- ◇ Educational Support

IT Security Center

- ◇ **Mission : IT Security Enhancement**
- ◇ **Established in 1997**
- ◇ **Current personnel 35**

Japan's Information Security Environment

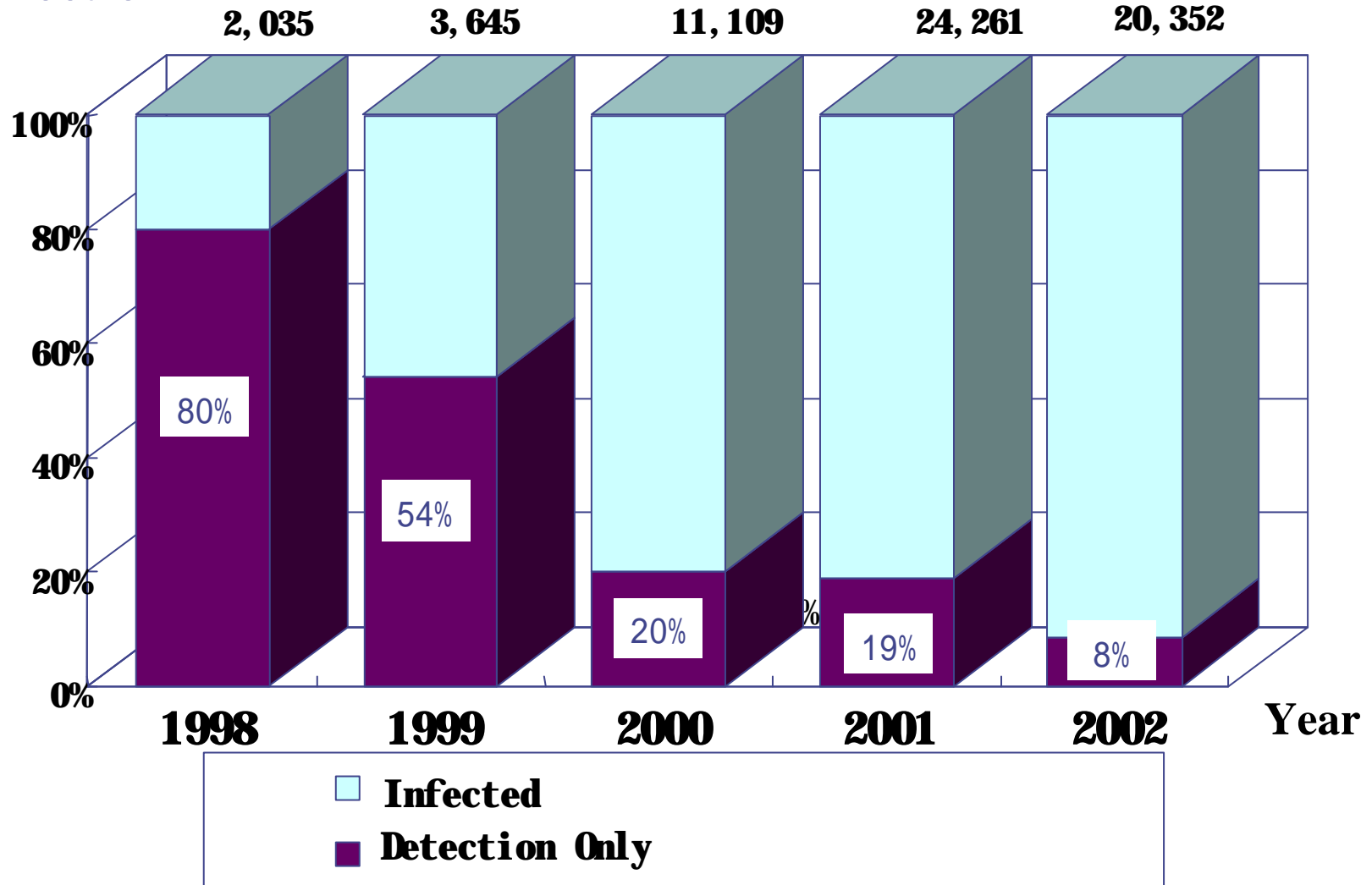
Computer Virus Reported to IPA /ISEC (1)



Computer Virus Reported to IPA /ISEC (2)

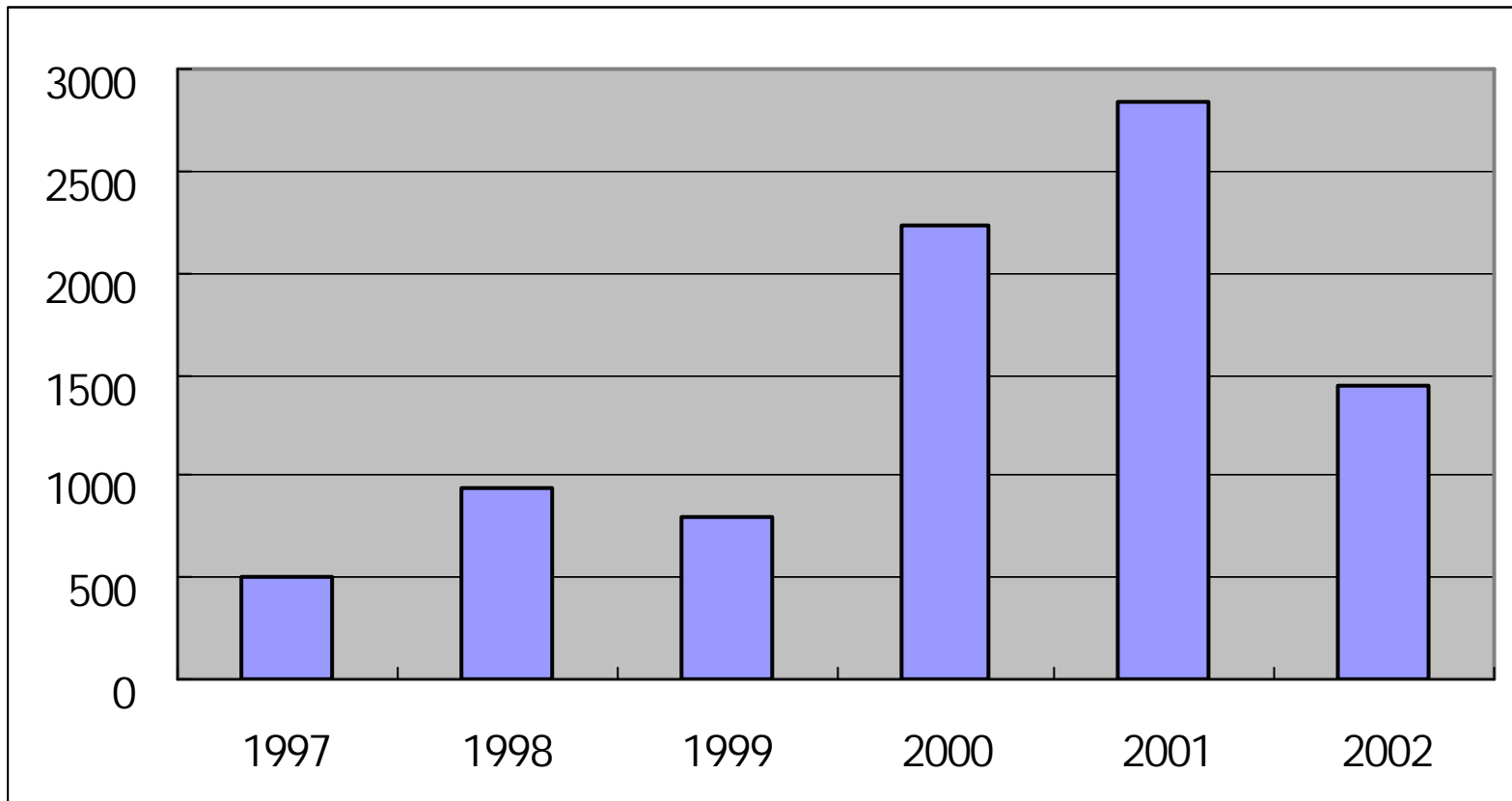
Infection

Number of Report



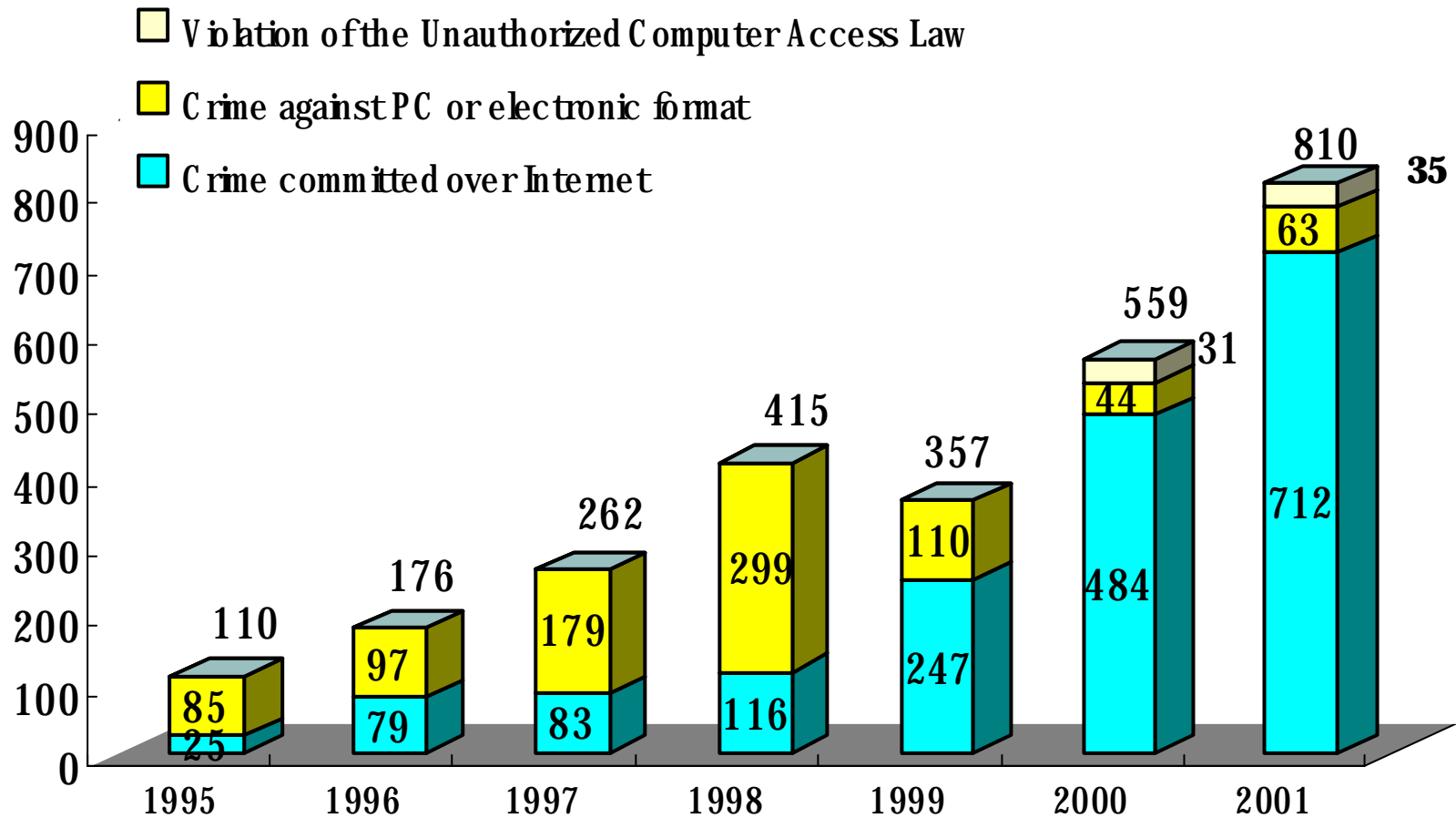
Unauthorized Access Reported to JPCERT/CC

Number of Report



Year

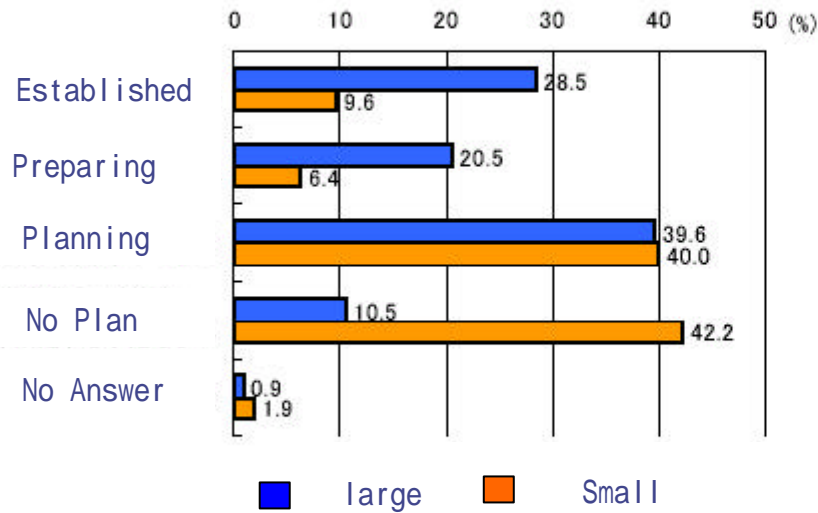
From JPCERT/CC HP <http://www.jpccert.or.jp/stat/reports.html>



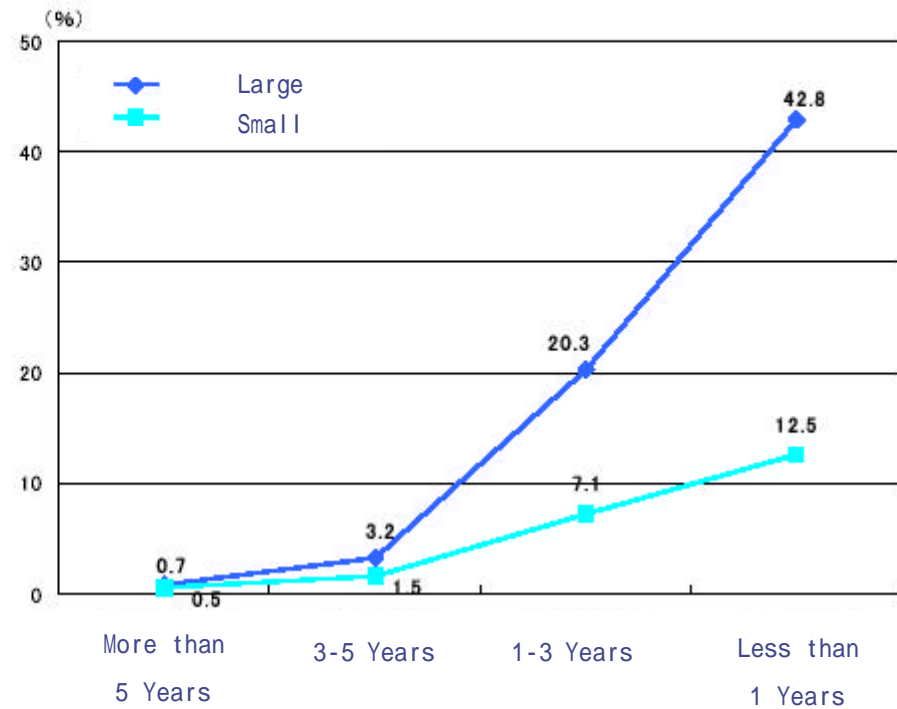
Breakdown of Cyber Crime

Category	Year 2000	Year 2001
Internet Facilitated Crime	484	712
Child Prostitution and Child Pornography	121	245
Distribution of Obscene Object	154	103
Fraud	53	103
Defamation	30	42
Infringement of Copyright	29	28
Intimidation	17	40
Others	80	151
Crime against Computer or Data	44	63
Unauthorized Computer Access	31	35
Total	559	810

Current Status

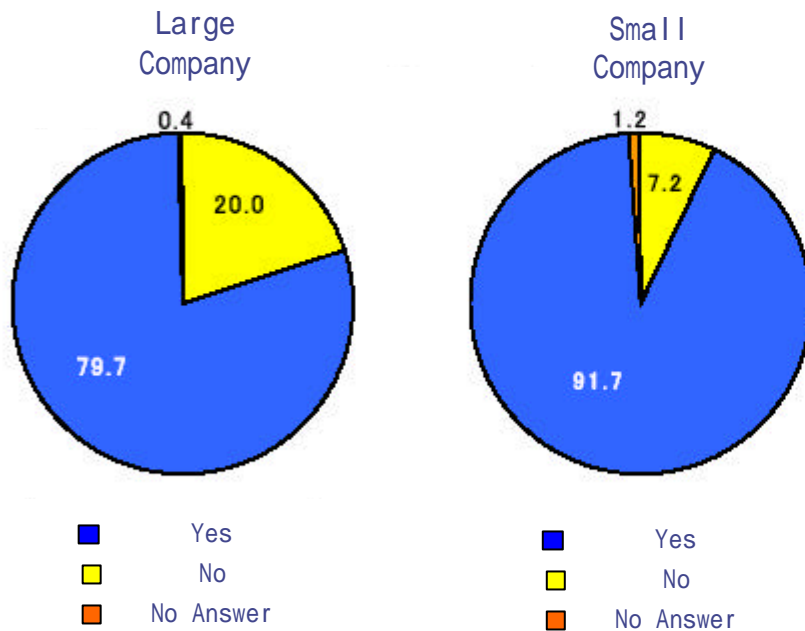


Trend

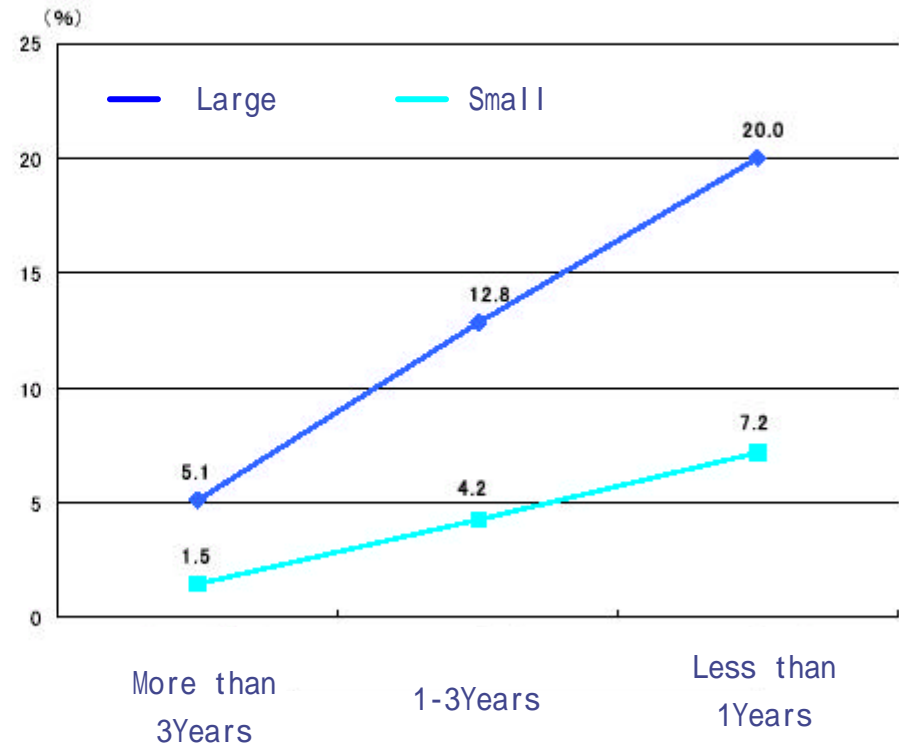


From MPHP HP http://www.soumu.go.jp/s-news/2002/pdf/020913_5_02.pdf

Current Status

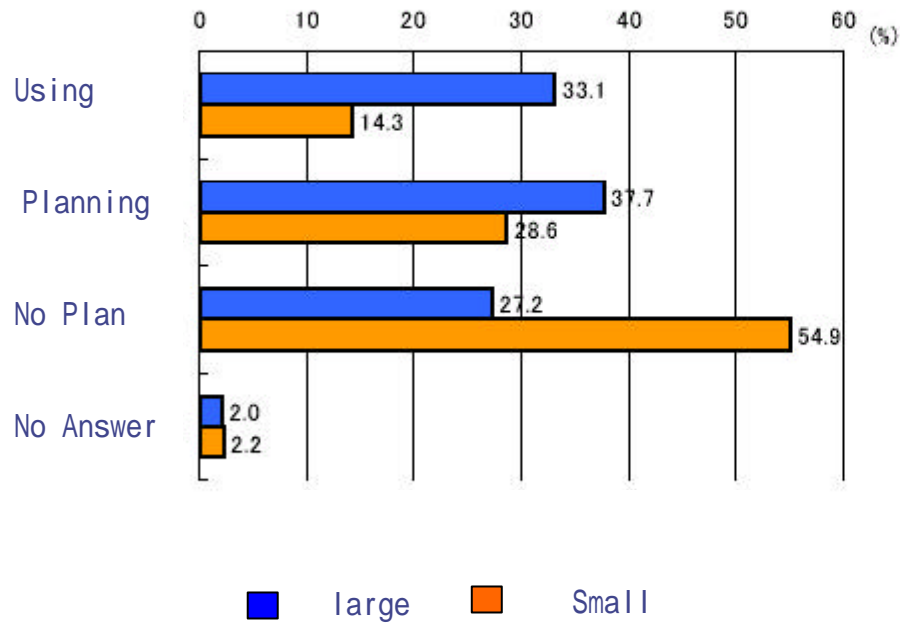


Trend

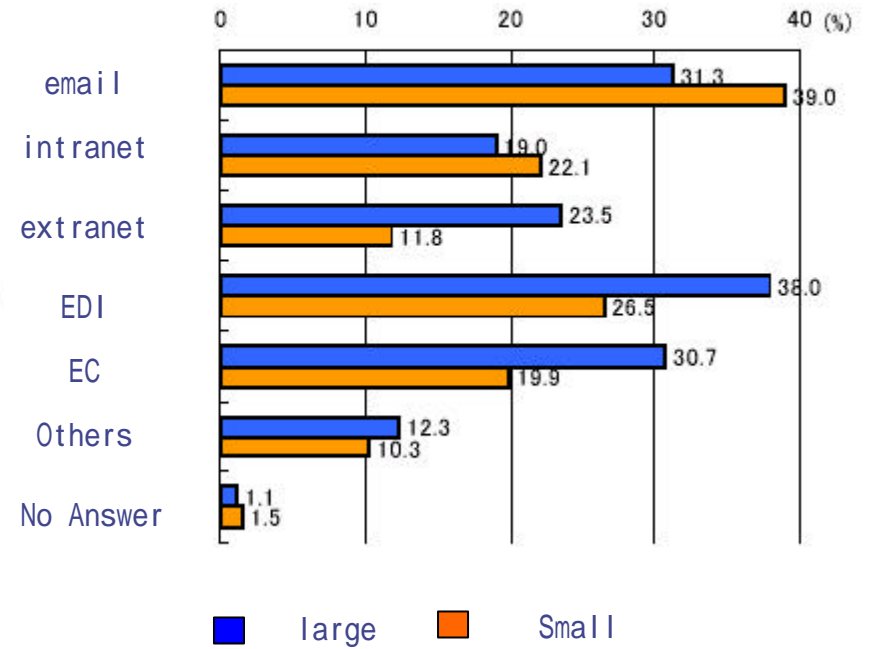


From MPHP HP http://www.soumu.go.jp/s-news/2002/pdf/020913_5_02.pdf

Current Status

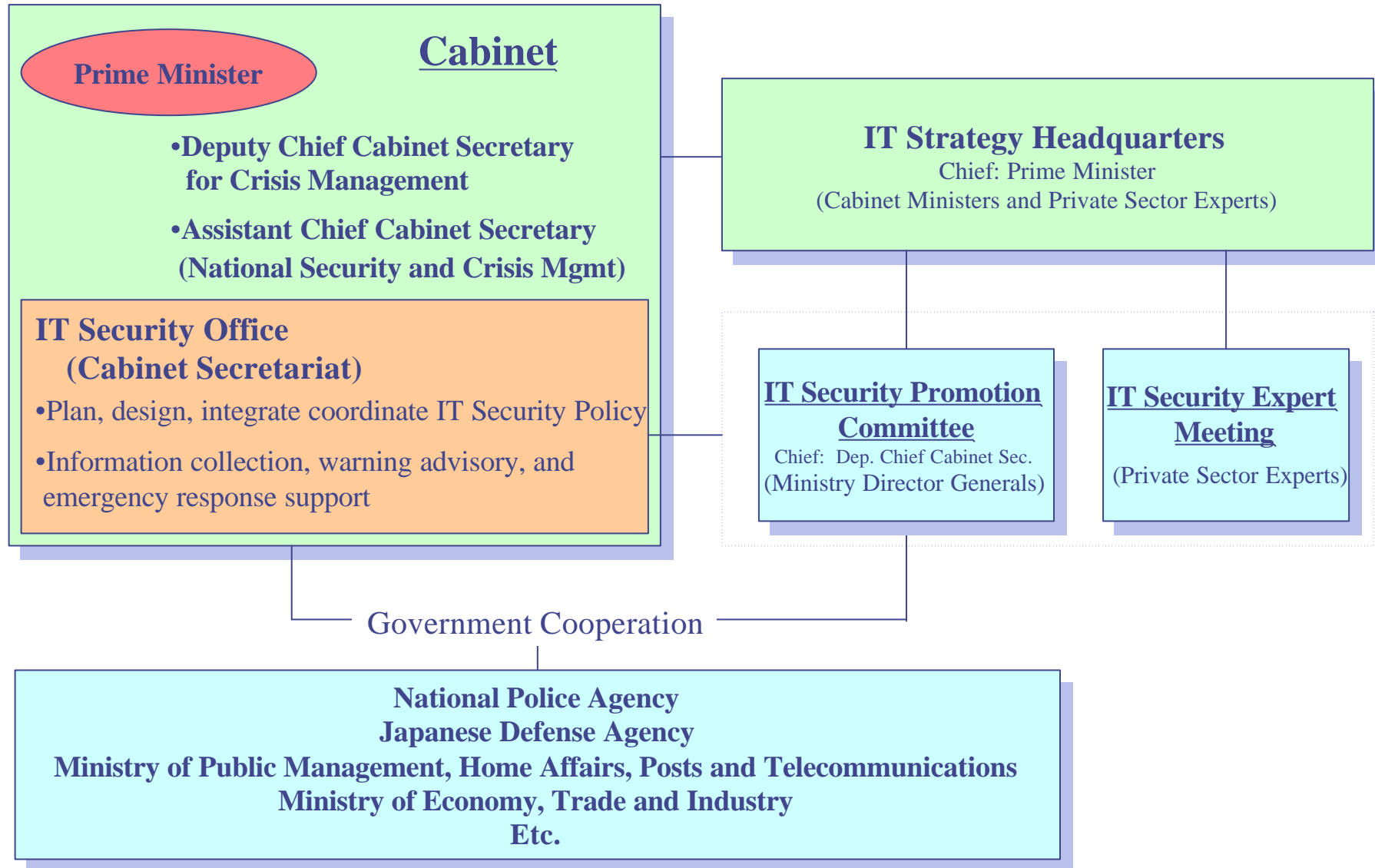


Application

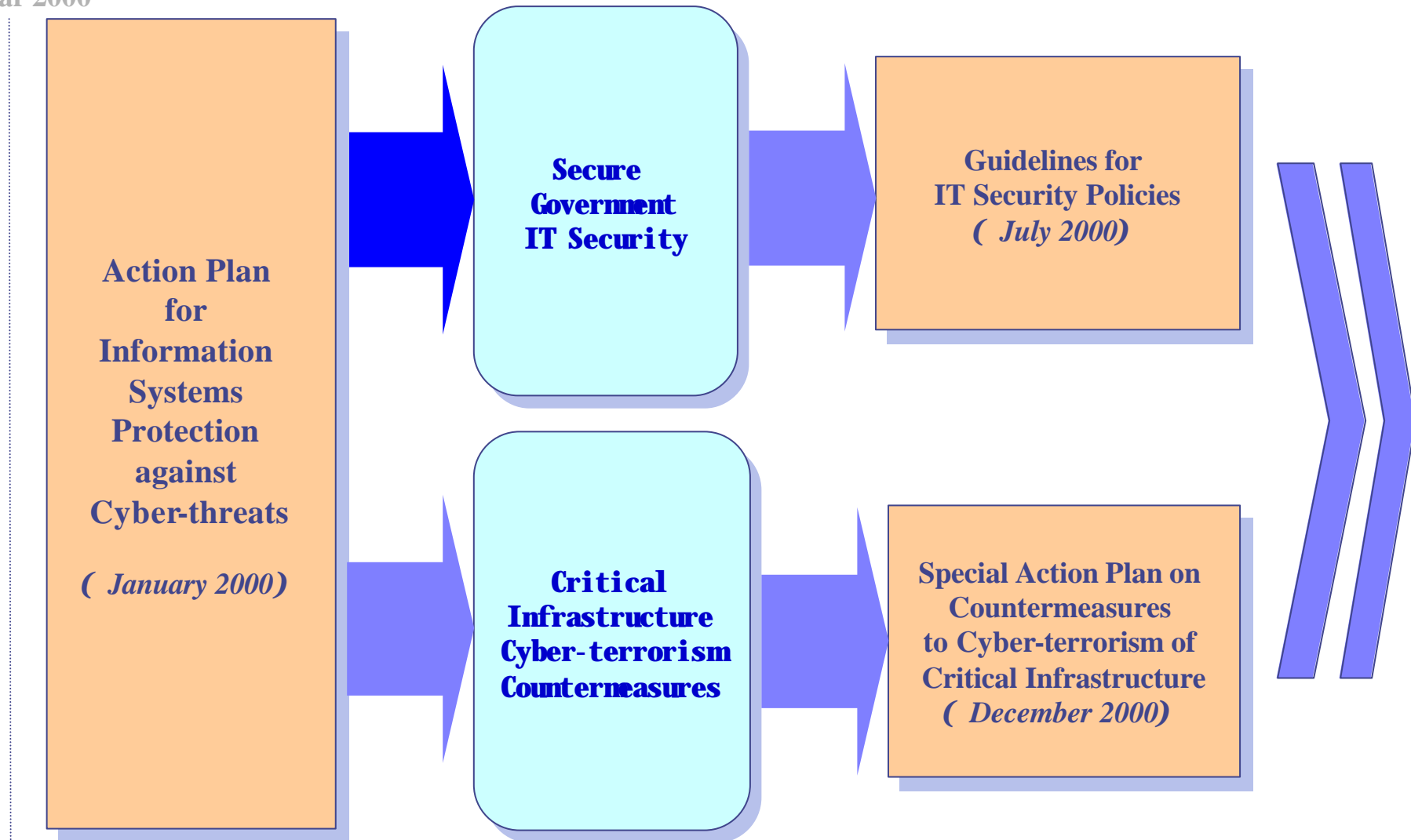


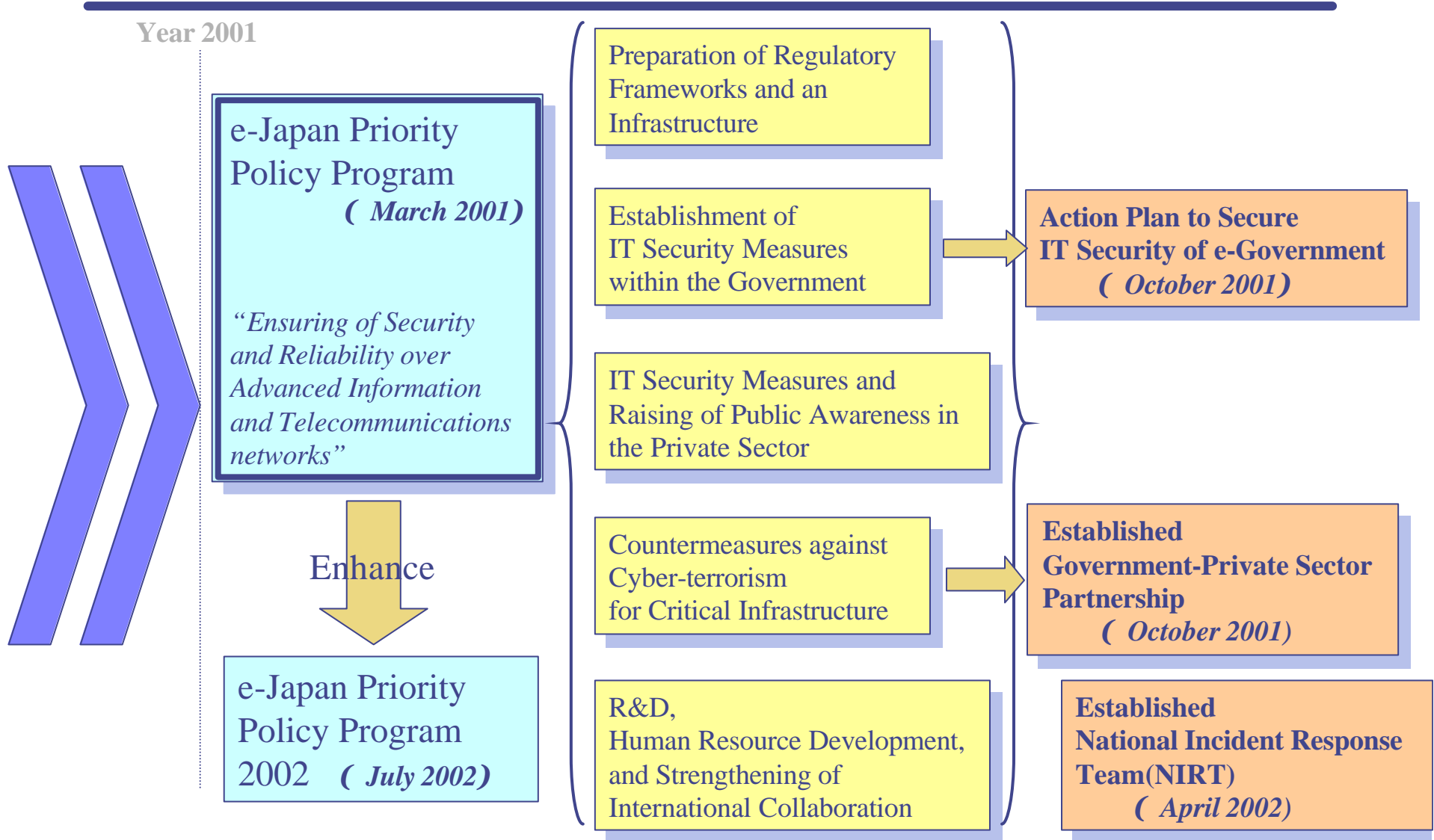
From MPHP HP http://www.soumu.go.jp/s-news/2002/pdf/020913_5_02.pdf

Japanese Government's IT Security Policies



Year 2000





Action Plan to Secure IT Security of e-Government

E-government is scheduled to start from FY 2003
? Network Security is essential for a secure e-government

Key Contents

- **Implementation of Effective IT Security Policy at each Governmental Organization**
- **Standardization of cryptographic technology regarding e-gov.**
- **Plan to establish effective monitoring system for e-gov. network**
- **Preparing emergency response system especially at the Cabinet Secretariat by establishing a CIRT**
- **Human resource development on IT security**
- **R&D for IT security key technology**

1 enhancing security of the e-government

- IT security evaluation(ISO/IEC15408)(NITE, IPA)
- evaluation of cryptography(IPA, TAO)
- supporting the cabinet office(policy advice, helping NIRT, etc.)
- GPKI

2 supporting the private sector activities

- information sharing/analysis on computer virus & hacking(JPCERT/CC, IPA)
- promoting security management(ISO/IEC17799)
- promoting PKI(voluntary accreditation scheme, etc.)
- training experts(national exam., etc.)
- awareness raising of IT security(seminar, etc.)
- promoting R&D
- establishing guidelines(against computer virus & hacking, etc.)

3 countermeasures against cyber-terrorism

- measures based on “ Special Action Plan on Countermeasures to Cyber-terrorism of Critical Infrastructure” (communication and coordination scheme with private sectors such as electric power and gas, etc.)
- promoting R&D

4 international cooperation

- cooperation with OECD, APEC, G8 Lyon Group, etc.
- promoting info-share network of CSIRTs

Conclusion and the Next Steps

1 Government Cooperation

- Japanese Government Organizations are cooperating to establish the most advanced and secure Information technology oriented society and e-Government.

2 Improving and enforcing Laws

- Computer Crimes Criminal Law Revised
- Unauthorized Access Prohibition Law
- Digital Signature Law

3 Established Schemes and Structures

- Cyber-Police Force (National Police Agency)
- National Incident Response Team (NIRT, Cabinet Secretariat)
- IT Security Evaluation and Certification Scheme (Based on ISO 15408, METI)
- Conformity Assessment Scheme for Information Security Management Systems (ISMS, Based on ISO 17799, supported by METI)

1 Secure Reliability of e-Government

- Promoting security audit(establishing model standard)
- List of e-Government recommended Ciphers and Procurement Guide

2 Improving and enforcing Laws

- legislation for personal information protection
- cyber-crime legislation(ratifying the convention)

3 Enhance Human and Technological Resources

- training experts(establishing skill standard)
- promoting electronic authentication

4 International Collaboration

- participating in CCRA
- APEC/CERT Collaboration

References and Contact information

Japan's IT security policies

- ◆IT Security Office (Cabinet Secretariat) <http://www.bits.go.jp/en/index.html>
- ◆Ministry of Economy, Trade and Industry (METI) <http://www.meti.go.jp/english/>
- ◆Ministry of Public Management, Home Affairs, Posts and Telecommunications (MPHP)
<http://www.soumu.go.jp/english/>
- ◆National Police Agency http://www.npa.go.jp/police_e.htm
- ◆Japanese Defense Agency [http://www.jda.go.jp/e/index .htm](http://www.jda.go.jp/e/index.htm)

METI's IT security policy

http://www.meti.go.jp/english/policy/index_other.html

<http://www.meti.go.jp/english/special/CyberSecurity/index.html>

MPHP - Information & Communications Statistics Database

<http://www.johotsusintokei.soumu.go.jp/english/index.html>

- White Paper 2002 - Information and Communications in Japan (Summary) (July 2002)
- Number of Internet Users(As of January 31,2002)
- Information about the Spread of DSL services(May 2002)
- Information Security Countermeasure Survey (Sep. 2002) *Japanese Only*

- ◆ **IPA / IT Security Center (ISEC)**

 - <http://www.ipa.go.jp/security/index-e.html>

- ◆ **Information Security Survey 2001 (Summary)**

 - http://www.ipa.go.jp/security/fy13/report/security_survey/survey2001en.pdf

- ◆ **Computer virus incident reports**

 - <http://www.ipa.go.jp/security/english/anti-virus-e.html>

- ◆ **Independent Administrative Institutions (IAI)**

 - ◆ **National Institute of Advanced Industrial Science and Technology (AIST)**

 - http://www.aist.go.jp/index_en.html

 - ◆ **National Institute of Technology and Evaluation (NITE)**

 - <http://www.nite.go.jp/index-e.htm>

 - Japan IT Security Evaluation & Certification Scheme

 - <http://www.nite.go.jp/asse/english/its/index.htm>

 - ◆ **Communications Research Laboratory (CRL)**

 - <http://www.crl.go.jp/overview/index.html>

? **IPA/ISEC**

<http://www.ipa.go.jp/security/index-e.html>

Email: isec-info@ipa.go.jp

2-28-8 HonKomagome, Bunkyo-ku, Tokyo 113-6591 Japan

Tel: +81-3-5978-7508 Fax: +81-3-5978-7518

Kei Harada,

Senior Researcher

IT Security Center (ISEC),

Information-technology Promotion Agency, Japan (IPA)

k-harada@ipa.go.jp