

# Study on the Current Situation of Information Security in Cambodia

Hitoshi ARAKI  
JICA Expert

# Needs of Information Security

- Use of the Internet is essential and indispensable for any business nowadays; businesses need international connections in any case

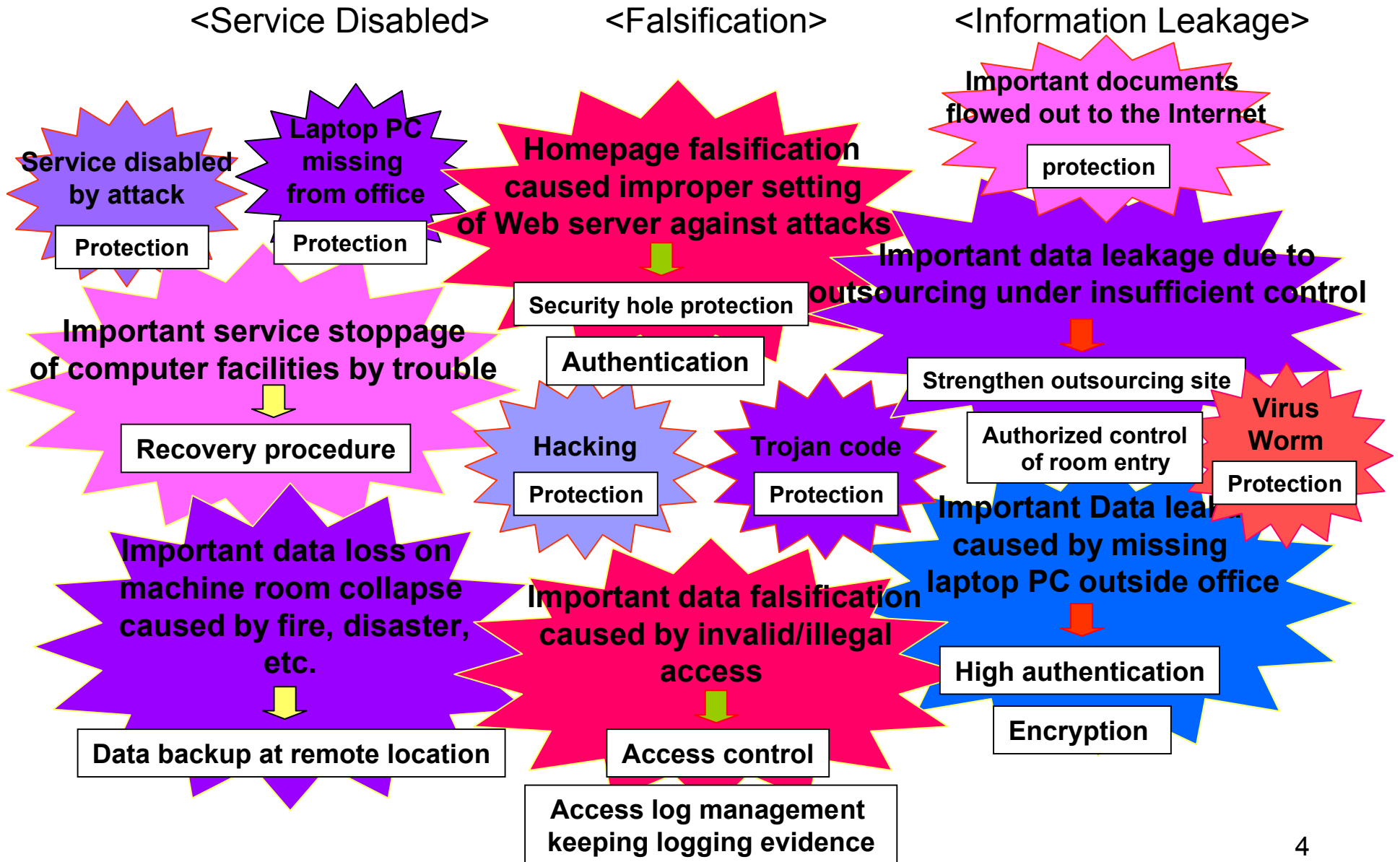
## An example of Lack of Information Security

- Technical knowledge of protective measures is poor
- No suitable protection tools are installed for computer systems
- Reinstallation of operating system is only way of recovery when attacked
- Firewall and basic physical environment security are not installed in all servers

# Measures for Information Security

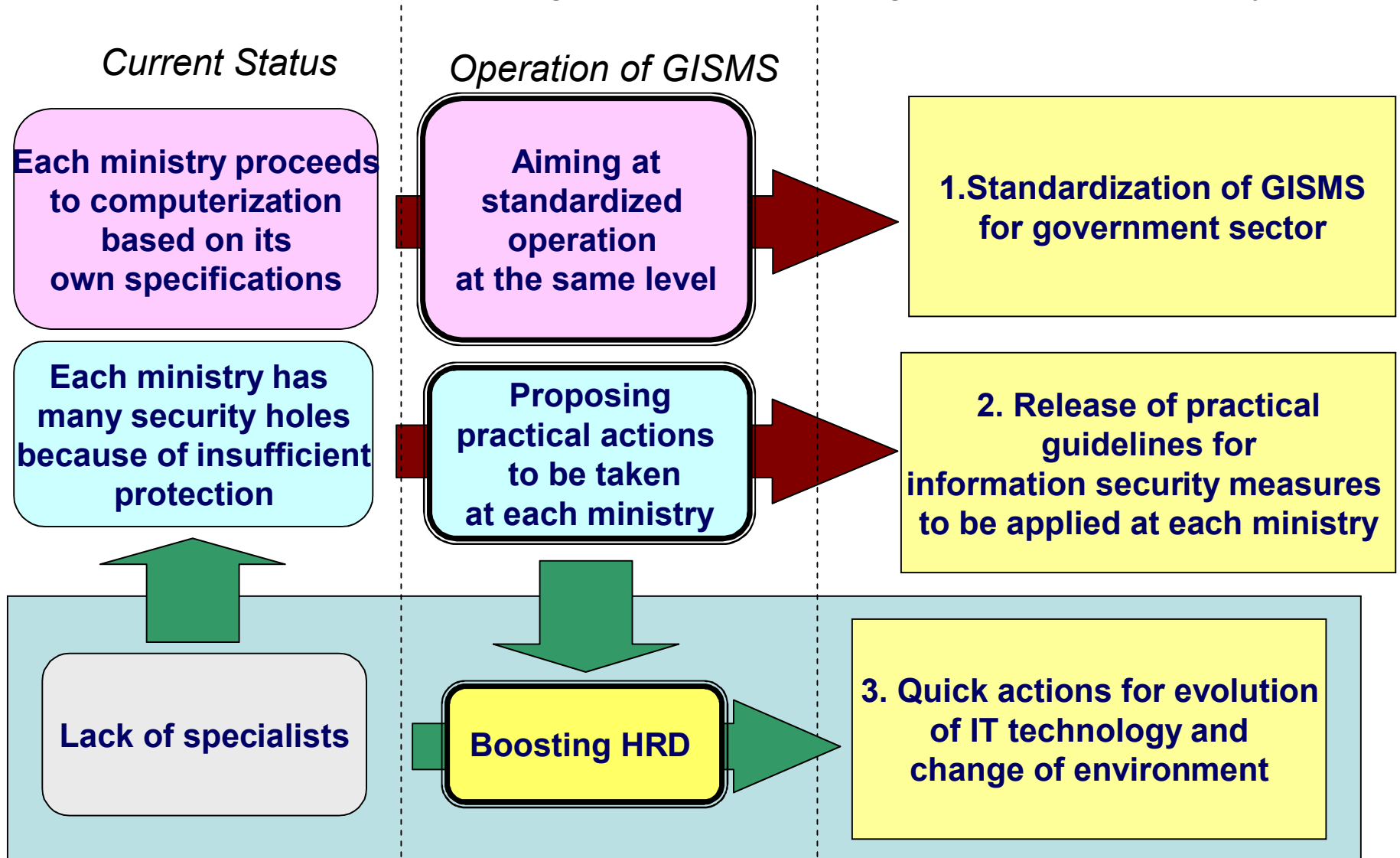
- Minimum basic information security shall be required for any office
- International standard for information security shall be introduced to important offices like headquarters where high grade information security is necessary
- To strengthen technical support for information security systems

# Threats to Government Computer Systems ( Needs of Measures)



## Purpose of Government Information Security Measures Standard

- Building up Government Information Security Measures Standard (GISMS) to support computerization of government, including e-Government deployment



# Applicable References

- ISO/IEC 27001 is a good reference for building information security system for any organization
- Government Information Security Measures Standard (GISMS) in Japan is also available; version 3 of it will be released soon

# ISO/IEC 27001

- Based on the best practices
  - Accumulation of good practices and knowledge of information security
  - Ease of adoption of ISO/IEC27001 to any organization because of its applicability of tasks stipulated
  - Continuous revision



# Function of ISO/IEC 27001 standard

- Process-based
  - Applicable regardless of organization's structure
  - Applicable regardless of organization's size and/or nature
- PDCA approach
  - Plan/Do/Check/Action
  - Step by step and spiral evolution

# How to Keep up Information Security with ISO/IEC 27001

Two kinds of approach are indicated in ISO/IEC 27001, i.e.,

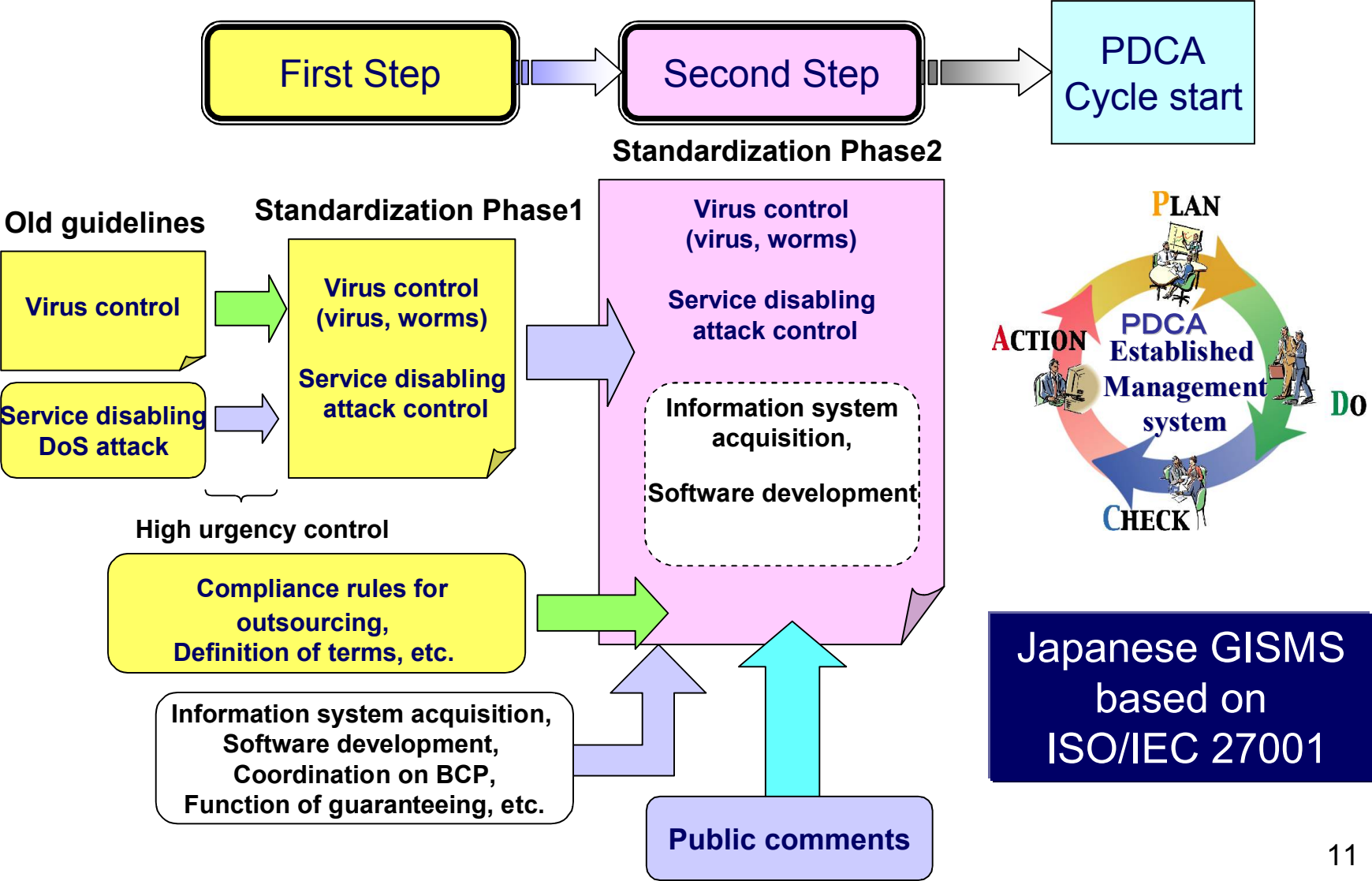
- Baseline approach
  - Wide control coverage and rich categorization
  - 133 controls in 11 categories
- Risk analysis approach
  - Listing of almost all the organizational important assets
  - Risk analysis of life time of each asset
  - Controls to protect from risks

# ISO 27001: Controls of Information Security Standard

133 controls in 11 categories defined in ISO 27001 as Information Security Standard.

Order	No.	Name of Category	No. of Controls
1	<b>A5</b>	<b>Security policy</b>	<b>2</b>
2	<b>A6</b>	<b>Organization of information security</b>	<b>11</b>
3	<b>A7</b>	<b>Asset management</b>	<b>5</b>
4	<b>A8</b>	<b>Human resources security</b>	<b>9</b>
5	<b>A9</b>	<b>Physical and environmental security</b>	<b>13</b>
6	<b>A10</b>	<b>Communications and management</b>	<b>32</b>
7	<b>A11</b>	<b>Access control</b>	<b>25</b>
8	<b>A12</b>	<b>Information systems acquisition, development and maintenance</b>	<b>16</b>
9	<b>A13</b>	<b>Information security incident management</b>	<b>5</b>
10	<b>A14</b>	<b>Business continuity management</b>	<b>5</b>
11	<b>A15</b>	<b>Compliance</b>	<b>10</b>

# Progressive GISMS in Case of Japan



# Targets of Information Security in Cambodia

<u>Priority</u>	<u>Sector</u>
1.	Government
2.	Life line Enterprises
3.	General Enterprises and others
4.	Individuals

# Steps in the Government

- Categorization of organizations from the viewpoint of a need of information security:
  - Group A: Organizations that need highest security
  - Group B: Organizations that need higher security
  - Group C: Organizations that need high security
- Hierarchy of offices
  - Headquarters
  - Branches
  - Local offices

# NiDA's Mission on GISMS

- Build Information Security Measure Standard, i.e. GISMS, at government, and then enterprises
- Control and maintain GISMS
- Lead Cambodia to better business environment though high awareness of information security, which is the pledge of FDI today

*Make it sure of your information  
security – The rotten apple  
injures its neighbors!*

Thank you for working  
with us today!