

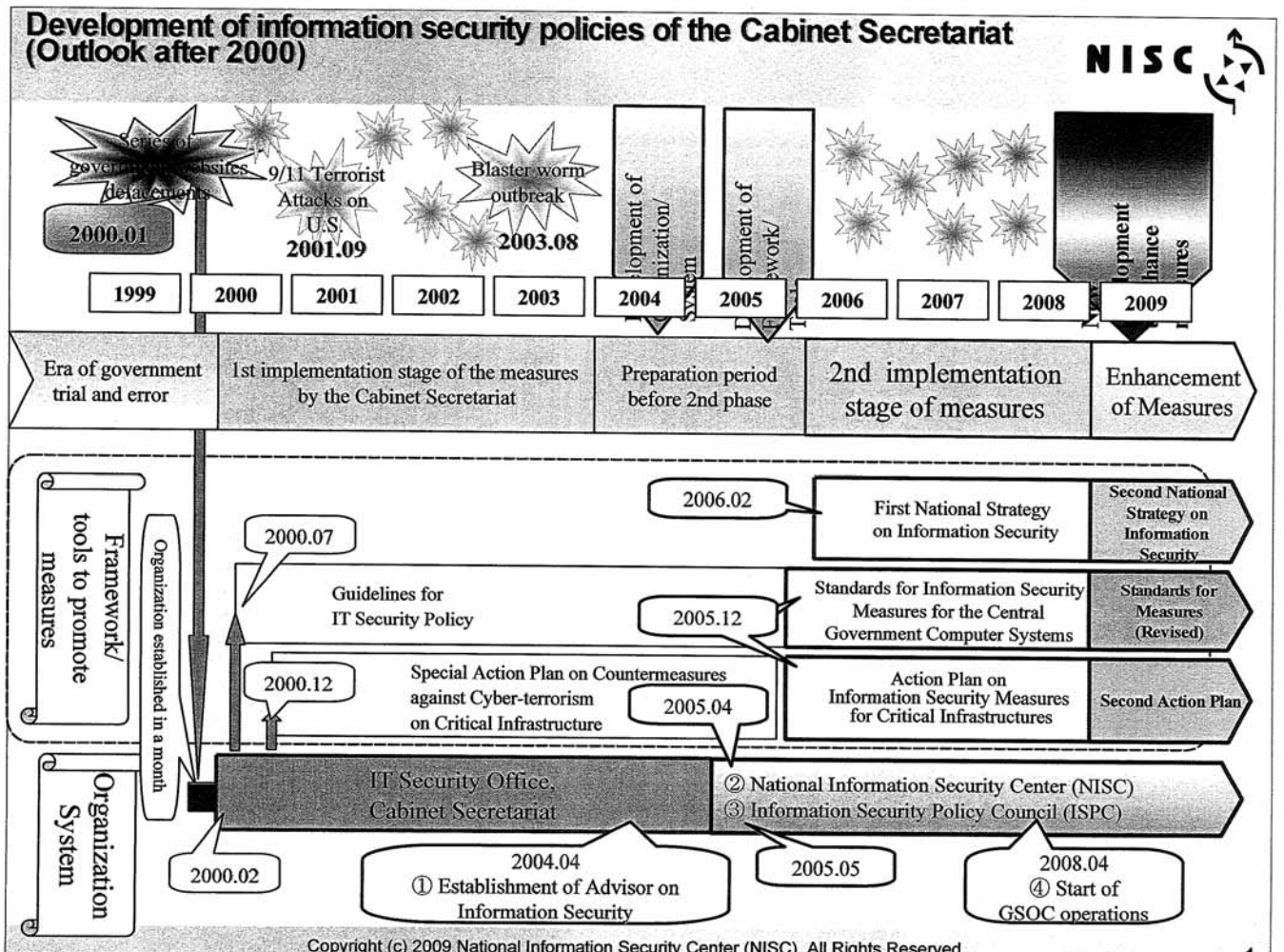
## Japanese Government's Efforts to Address Information Security Issues

November 2009

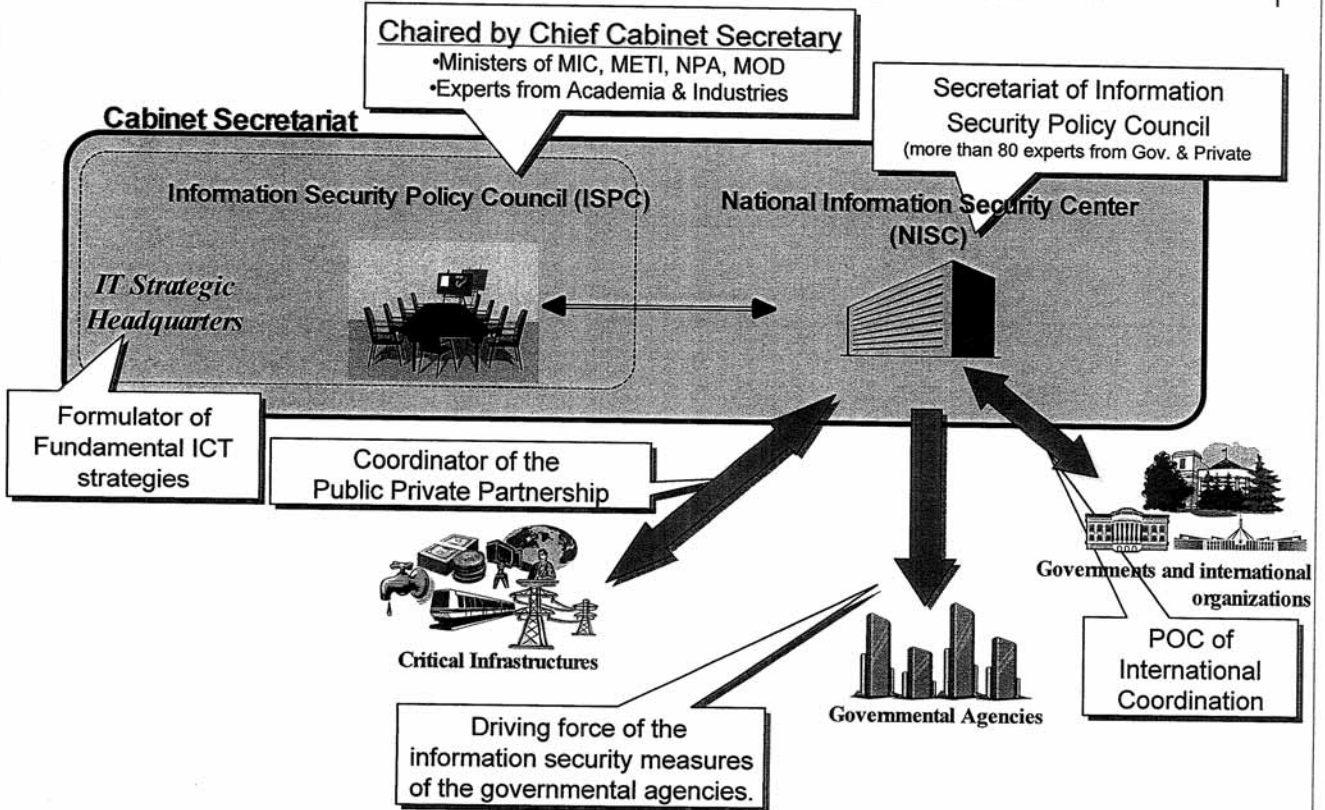
National Information Security Center (NISC)

<http://www.nisc.go.jp/>

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# Who we are?



\* MIC: Ministry of Internal Affairs and Communications, METI: Ministry of Economy, Trade and Industry, NPA: National Police Agency, MOD: Ministry of Defense  
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# "Second National Strategy on Information Security"

Fiscal Years 2009 – 2011



Central and local governments	Critical Infrastructures	Businesses	Individuals
<ul style="list-style-type: none"> <li>◆ Establishment of the system to actively drive information security measures (Establishment of Chief Information Security Adviser. Reporting and publication of annual report)</li> <li>◆ Consideration of securing business continuity/ Enhancement of emergency response capabilities against cyber attacks.</li> </ul> <p>Standards for Measures</p>	<ul style="list-style-type: none"> <li>◆ Enhancement of information sharing framework</li> <li>◆ Establishment of CEPTOAR* Council</li> <li>◆ Conducting cross-sectoral exercises and analysis of the common threats</li> </ul> <p>* Capability for Engineering of Protection, Technical Operation, Analysis and Response</p> <p>Action Plan on Information Security Measures for Critical Infrastructures</p>	<ul style="list-style-type: none"> <li>◆ Promotion of third-party evaluation such as information security auditing</li> <li>◆ Provision of facilitate tools to measures</li> <li>◆ Acceleration of countermeasures by SMBs</li> <li>◆ Enhancement of the response system against computer viruses and others</li> </ul> <p>Measures by relevant agencies</p>	<ul style="list-style-type: none"> <li>◆ Promotion of education such as information morals education at schools or in communities</li> <li>◆ Nurture of supporting staff who can answer the questions from individuals</li> <li>◆ Acceleration of provision to risk information for individuals by service providers or supporting entities</li> </ul> <p>Measures by relevant agencies</p>
<p><b>Information security technology strategy</b></p> <ul style="list-style-type: none"> <li>◆ Promotion of development of appliances embedded with security countermeasures</li> <li>◆ Promotion of technology development in "Grand Challenge" style</li> </ul>		<p><b>Development of human resources</b></p> <ul style="list-style-type: none"> <li>◆ Developing/securing human resources in government agencies</li> <li>◆ Promotion of visualization of skills held by each individual</li> </ul>	
<p><b>International cooperation and collaboration</b></p> <ul style="list-style-type: none"> <li>◆ International Public-private partnership for the understanding of global threats trend</li> <li>◆ Combining and improving the wisdom in Asia</li> </ul>		<p><b>Crime control/ Protection and redemption of rights/interests</b></p> <ul style="list-style-type: none"> <li>◆ Infrastructure development for the crime control</li> <li>◆ Infrastructure development for protection and redemption of rights and interests</li> </ul>	

\*Also, promote the efforts of the supporting entities, the entities that support efforts of "the entities that implement information security countermeasures"

First National Strategy on Information Security FY06 ~ FY08

Second National Strategy on Information Security FY09 ~ FY11

Implementation Stage of the measures

- ◆ **Awareness raised on relevant player**
- ◆ **Formulated a policy promotion framework**
- ◆ **Progressed of measures on pre-accident**

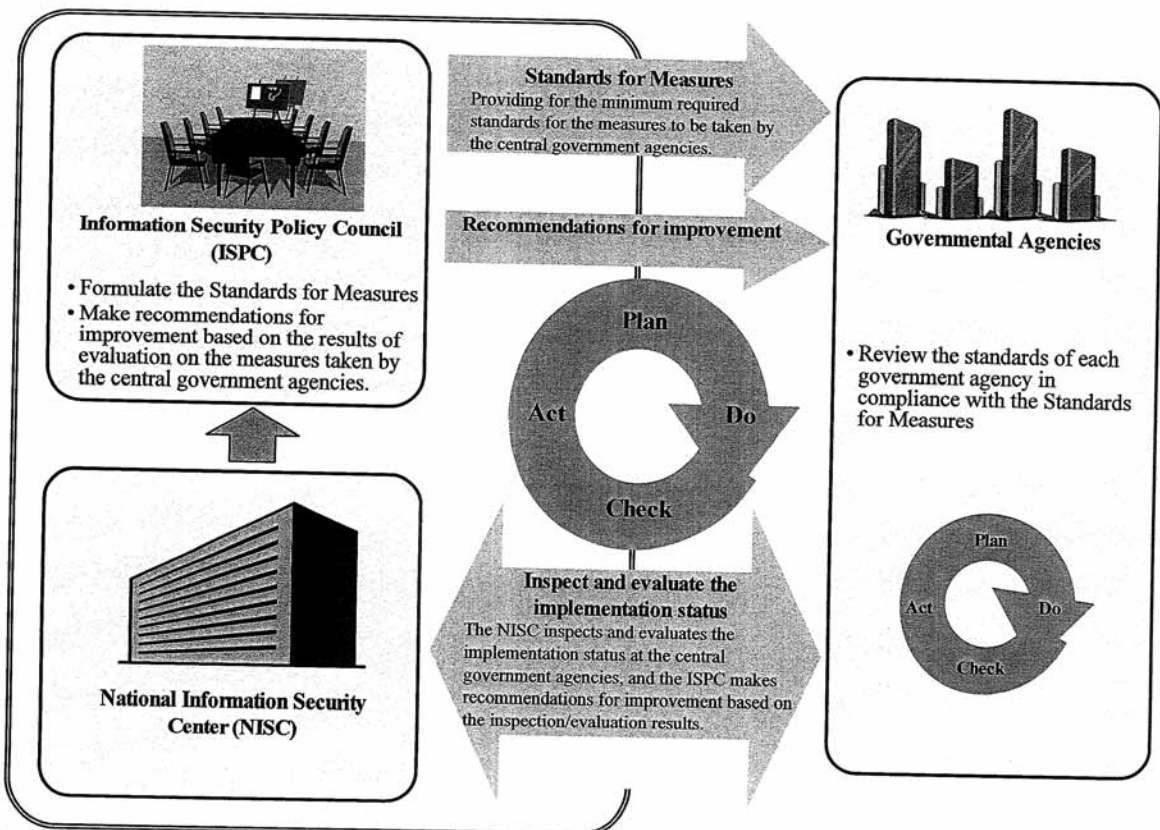
Directions in the National Strategy

- Strengthen measures against "Accident Assumed Society"
- Develop "Rationality based approaches"
- Keep the information security measures in the economic policies

**5 Priority Items in SJ 2009**

- ① Enhance common understanding between the public and private sectors
- ② Promote e-government
- ③ Develop the human resource for the information security
- ④ Promote the international cooperation
- ⑤ Promote information security technology strategy

Improvement based on PDCA cycle for the government agencies

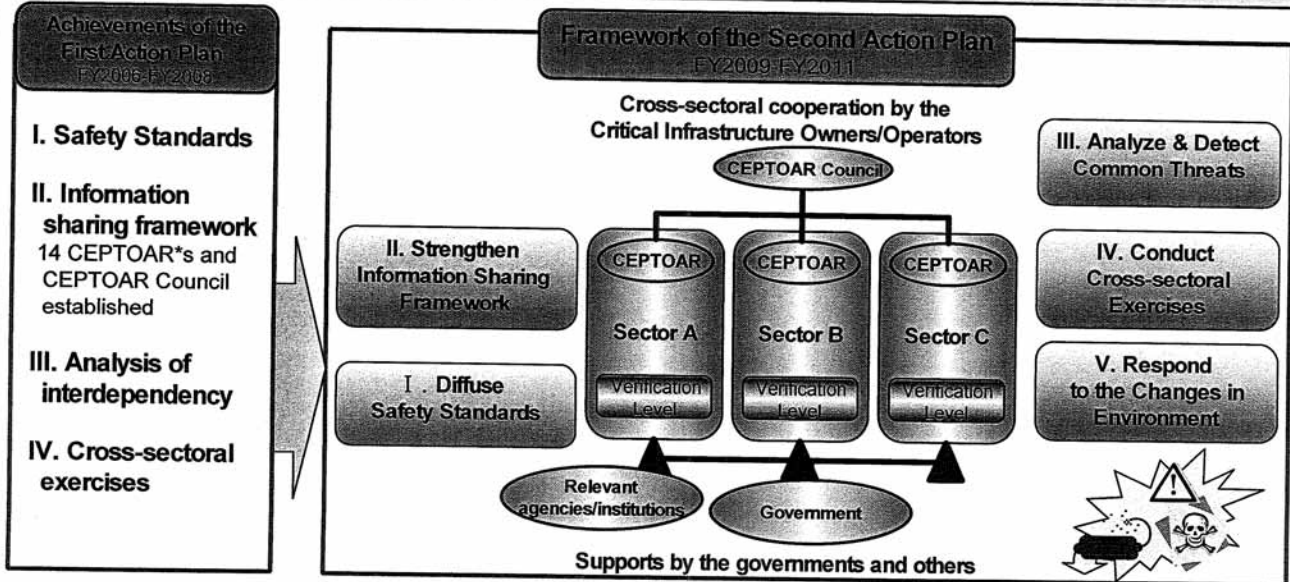


# Overview of "the Second Action Plan on Information Security Measures for Critical Infrastructures"



- Preventing IT malfunctions from affecting the lives of citizens and the socioeconomic activities by Public Private Partnership
- Setup of a verification level in each critical infrastructure service\*
- Improve the capabilities to respond to the changes in the environment

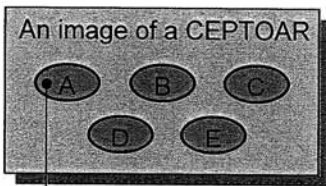
\* 10 sectors; Information and communications, Finance, Aviation, Railways, Electricity, Gas, Governments and governmental services (incl. local governments), Medical services, Water services, and Logistics



\*Capability for Engineering of Protection, Technical Operation, Analysis and Response

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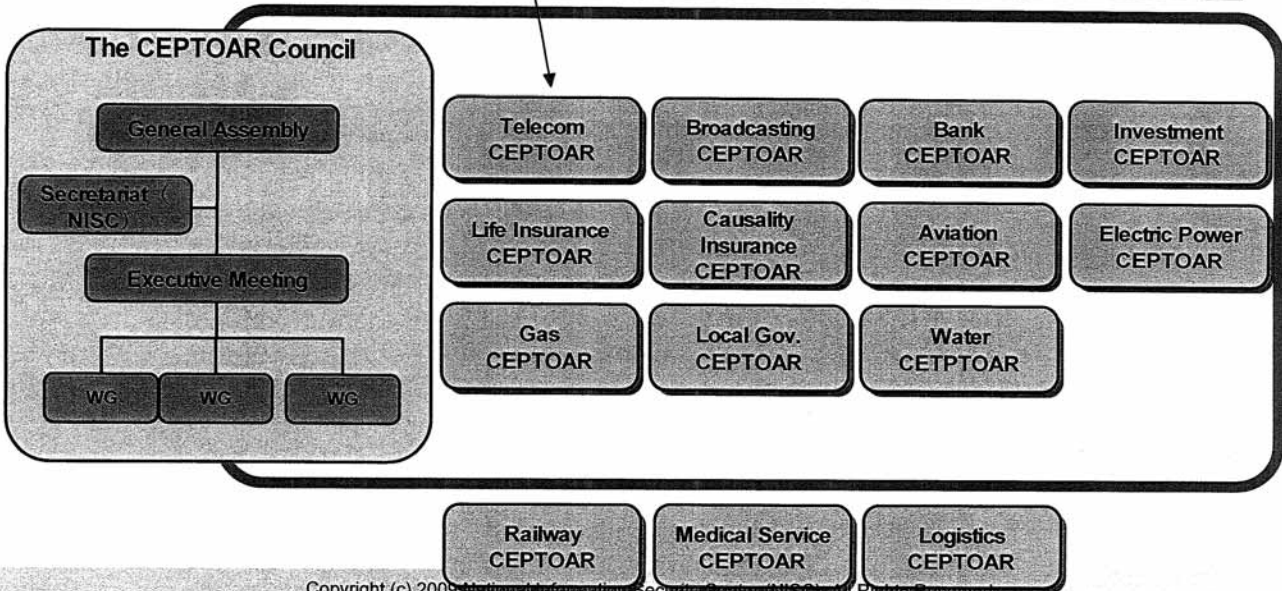
## CEPTOARs and the CEPTOAR Council



A Critical Infrastructure Operator

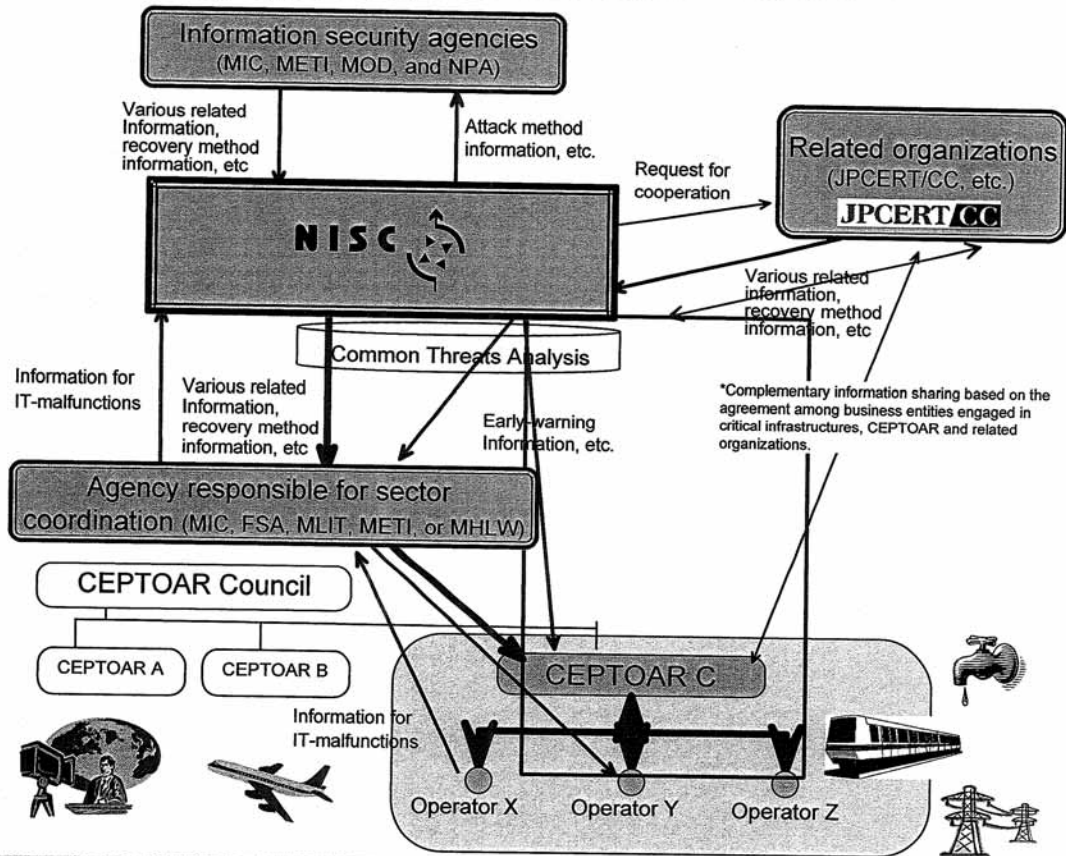
**CEPTOAR = Capability for Engineering of Protection, Technical Operation, Analysis and Response**

**The CEPTOAR Council:(2009.2~)**  
the private organization for voluntary information sharing formed by CEPTOARs



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# Structure for Effective Information Sharing



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# Conducting Cross-Sectoral Exercises



## The First National Strategy on Information Security

<2006>  
**Building Public Private Partnership**

<b>Seminar</b> Understood exercise concepts, scenarios, and procedures	<b>Tabletop Exercise</b> Discussed response to a hypothetical disaster in a meeting style
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<2007>  
**Enhancing Partnership Mechanisms**

**Functional Exercise**  
 Adopted a DDoS attack scenario and simulated the response by email

<2008>  
**Improving Efficiency of Partnership**

**Functional Exercise**  
 In the realistic situation in which the cause of the incident was hidden, identified the cause using information sharing and proceeded to recover and continue the service

Lessons learned about procedures for cross-sectoral exercises

## The Second National Strategy on Information Security

**Improving Cross-Sectoral Measures for Critical Infrastructure Protections**

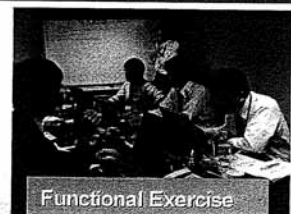
**Target**

Sharing the understanding of cross-sectoral threats	Enhancing response in one's sector by knowing response in other sectors	Achieving more effective information sharing between public and private sectors
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**Expectations**

**Policies for Cross-Sectoral Exercises**

1. Plan scenarios, processes and conduct exercises
2. Recognize the progress of recovery processes and business continuity plans and share them with participants
3. Improve scenario development
4. Share lessons learned about exercise methods



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