



Responsible Development : Role of developed countries

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Towards low carbon society

- **World energy demand increase would be inevitable.**
- **For sustainable future, we have to challenge to realize low carbon society.**
- **Nuclear power have played an important role for energy supply assurance and reduction of CO2 emission.**
- **There is no silver bullet to realize low carbon society, but there would be no solution without nuclear.**

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Towards the Nuclear Future

- **For the responsible development of nuclear power, it is crucial to share the lessons learned from Fukushima accident as agreed in G8 summit ;**
 - **Enhancement of nuclear safety**
 - **Reassurance of public confidence**
 - **Strengthen international cooperation**

What action is necessary after Fukushima Accident

- **G8 summit in Deauville France ;**
 - **Countries may have different approaches regarding the use and contribution of nuclear energy to their energy mix**
 - **for the Enhancement of nuclear safety**
 - * **comprehensive risk and safety assessment**
 - * **strengthen the safety infrastructure worldwide**
 - * **international cooperation on safety**
 - * **strengthen the role of IAEA**
 - * **strengthen the Convention on Nuclear Safety**
 - * **infrastructure with sufficient and qualified HR**
- and so on**

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Role of developed countries

- **To support the newcomer countries is the role and responsibility of the nuclear developed countries based on the needs of newcomer country**
 - **human resources development (HRD)**
 - **preparation of legislation**
 - **supplying high safety standard plant**
 - **support localization program etc.**

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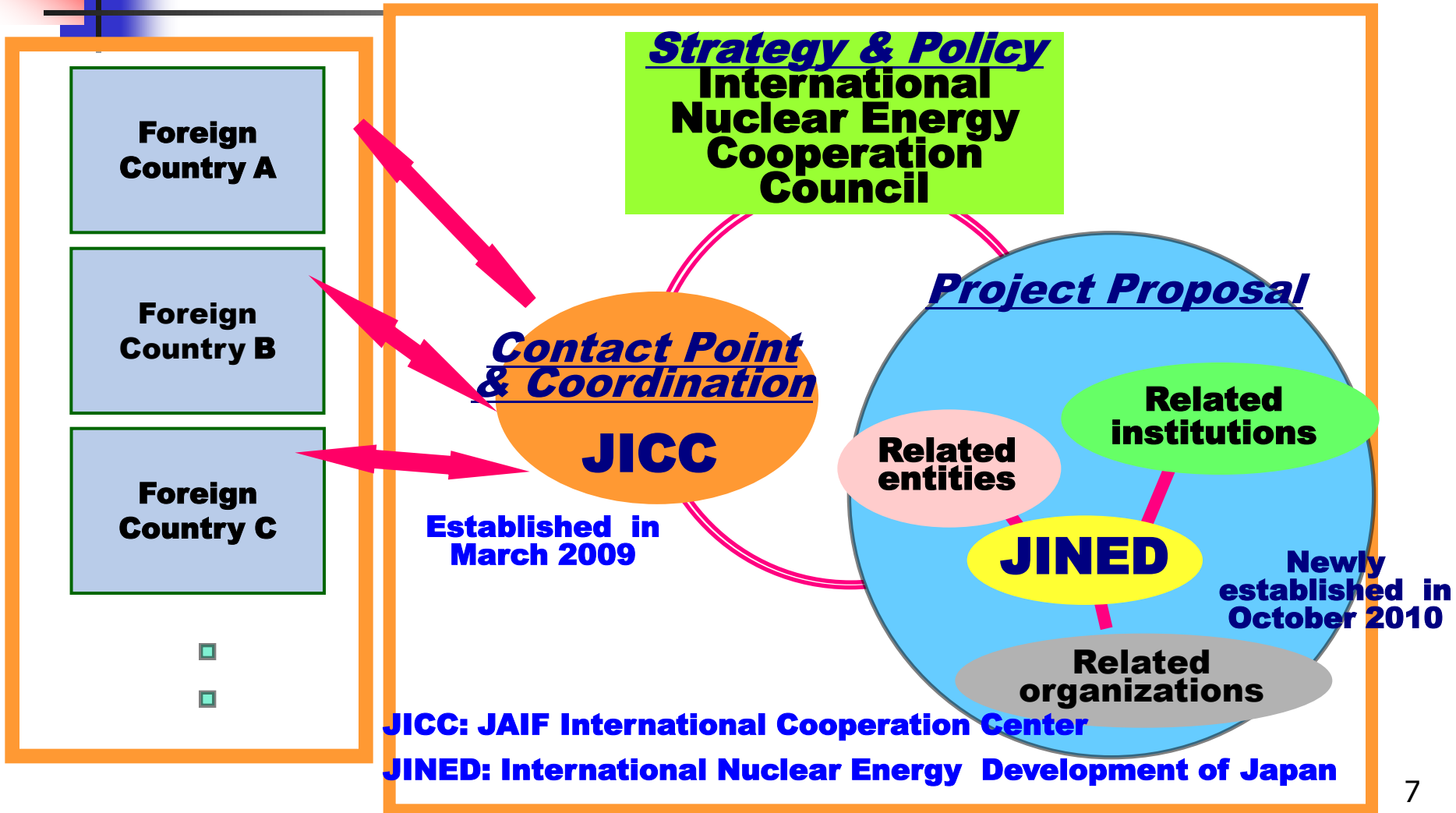
Japan's approach

To support new comer countries, Japan had established ;

- **International Nuclear Energy Cooperation Council 2009.6~**
- **JAIF International cooperation Center (JICC) 2009.3~**
- **International Nuclear Energy Development of Japan (JINED) 2010.10~**

Cooperation with Newcomers

Close Partnership among players in Japan

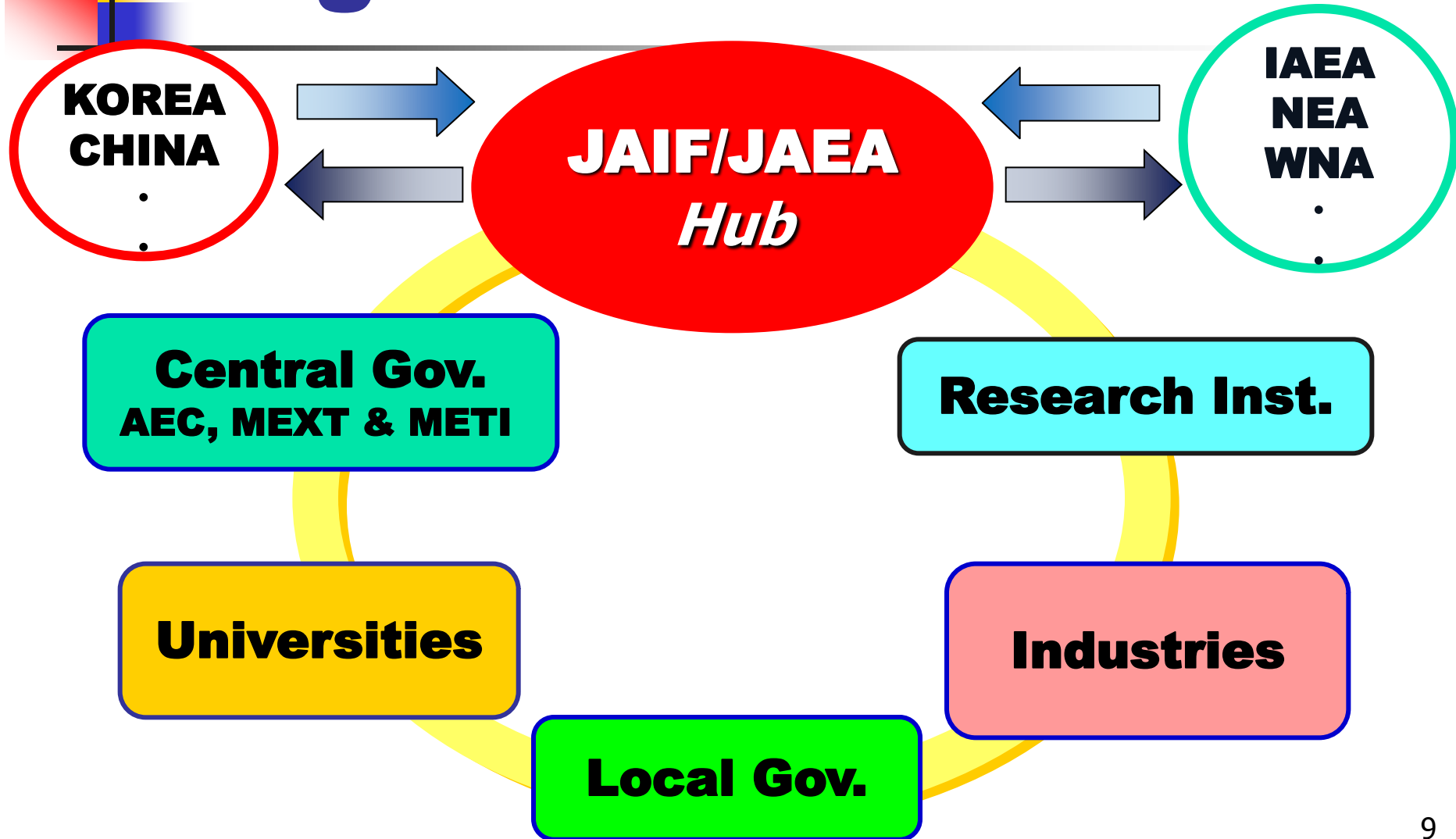


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International HRD network

- **Japan have established general platform for HRD and will extend to international network**
- **Japan Nuclear Human Resources Development Network started Nov. 2010**
- **network with Hub function**
 - **cooperation with international institutions (IAEA, OECD/NEA and WNA)**
 - **cooperation with neighbor countries (Regional cooperation center)**

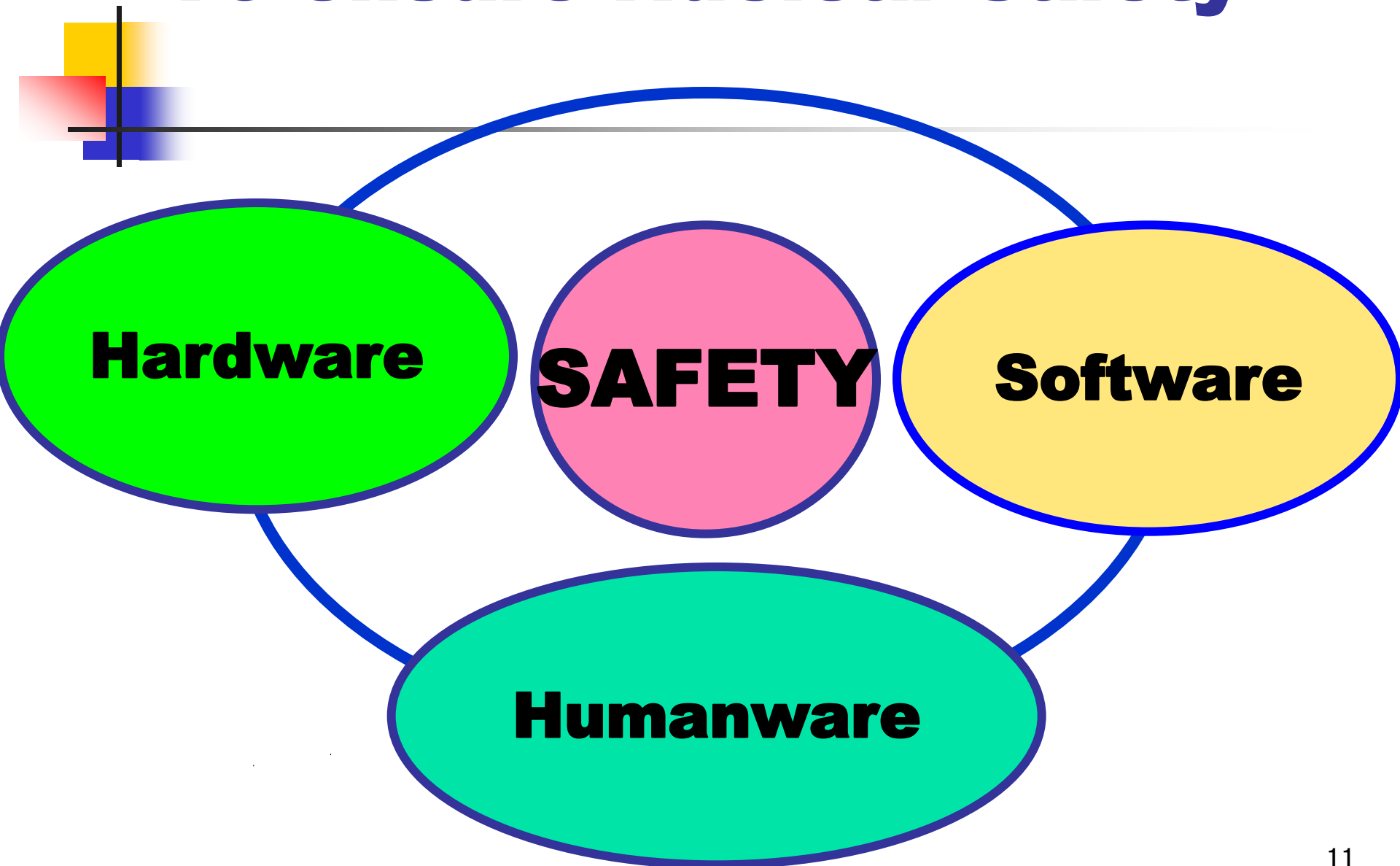
Regional HRD Network



Importance of Humanware

- **Conditions to be assured for safe and stable operation of nuclear power**
 - high quality of **hardware**
 - highly reliable **software**
 - knowledgeable, experienced, well trained and qualified **humanware**
- **Systematic approach is essential**
 - well-balanced **quality management system** for hardware, software and humanware is crucial
 - **humanware** with firm safety culture and engineering ethics is vital

To ensure Nuclear Safety



Humanware Development

A green oval containing text.

**Quality mgt. sys,
Construction,
Operation,
Maintenance**

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**Nuclear Safety,
Emergency
Preparedness**

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**Laws &
Regulations,
Intl. Framework,
Nuclear Liability**

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**Public
Communication**

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**Rad. waste &
Spent Fuel
Management**

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Basic Technical knowledge

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Safety Culture & Engineering Ethics

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Thank you for your attention

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