

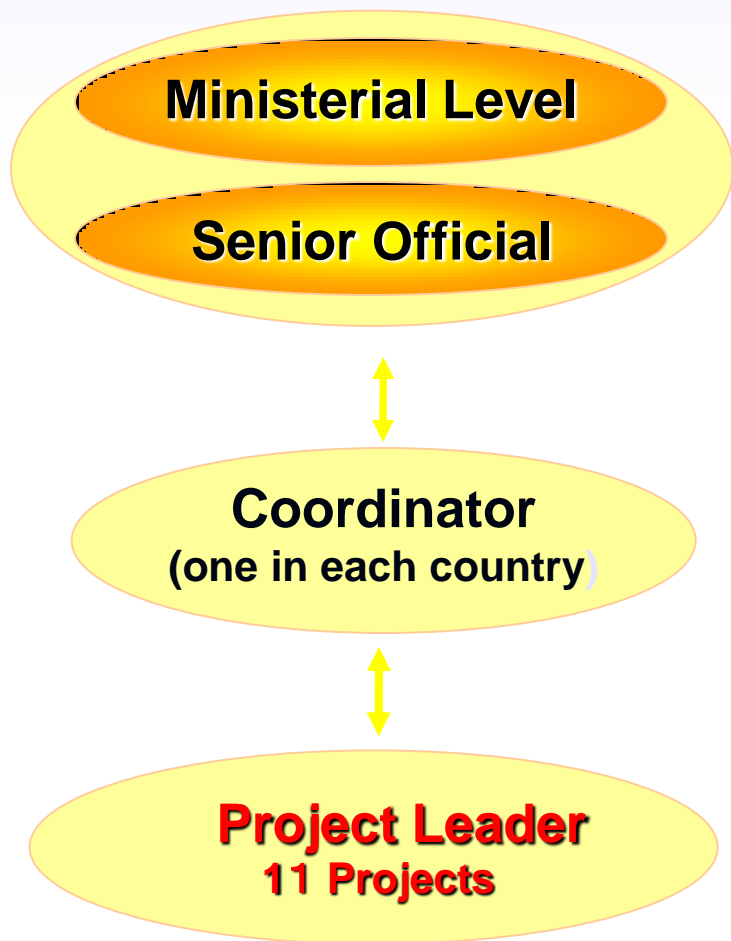
FNCA Project on “Research Reactor Network”

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FNCA (Forum for Nuclear Cooperation in Asia)

Member Countries: Australia, Bangladesh, China, Indonesia, Japan, Kazakhstan, Korea, Malaysia, Mongolia, the Philippines, Thailand, Vietnam



FNCA Vision Statement (adopted 2000)

The FNCA is to be recognized as an effective mechanism for enhancing socioeconomic development through active regional partnership in the peaceful and safe utilization of nuclear technology.

Ministerial Meeting (Nov.2010, China)



Scope of Regional Network for Stable Production and Supply of RI in FNCA Countries

- **Objectives:**

To facilitate the stable production and supply of medical and industrial RI for member countries by regional cooperation

- **Mechanism**

Coordination meeting/project workshop by the participation of all FNCA countries under auspices of the government **to decide important issues** for operation of the network

History of the RRN Project

- Pre-project meeting in 2010, China
- The 1st Workshop on Research Reactor Network, October 24-27, 2011, ROK
- Ad Hoc Meeting on RRN for Production and Supply of Medical Isotopes
March 15-16, 2012, China
- The 2nd Workshop on Research Reactor Network
■ Nov 19-22, 2012, Jakarta, Indonesia
- The 3rd Workshop on Research Reactor Network
■ Sept. 24-27, 2013, Almaty, Kazakhstan

Outcome of 3rd FNCA Workshop: Production Capacity and Demand of Mo-99 in FNCA Countries by 2017(1)

- ANSTO: 3500 Ci/week before the end of 2015
- New RI reactor (20MW) KAERI: 2000Ci/week in 2017
- Total production capacity of Mo-99 in the FNCA countries: more than 6000Ci/week in 2017
- Potential demand of FNCA countries: 3000Ci/week.

Outcome of 3rd FNCA Workshop: Production Capacity and Demand of Mo-99 in FNCA Countries by 2017(2)

- Stable supply of Mo-99 will be better secured after 2017 by ANSTO and KAERI production.
- No serious shortage of Mo-99 supply in 2014 in FNCA countries is foreseen since there is a global supply from various countries.
- The harmonization of quality of Mo-99 for enhancement of export and import in the FNCA region is essential.

Plan for 2nd Cycle (2014-2016) of the RRN Project

1. Operation of the regional network for production and stable supply of medical isotopes, in particular Mo-99, in member countries through close collaboration with national networks to ensure a stable supply to meet demand.
2. Establishment of links with NEA/OECD to harmonize activities for the stable supply of Mo-99 through Australia, Japan and Korea, all OECD members.

3. Information-Sharing on technology to produce Mo-99 by n-gamma reaction.
4. Information-Sharing on neutron-doping-into-silicone technology for semiconductor production by research reactor.
5. Information-Sharing on reactor and irradiation facilities design for application in constructing new research reactors in Korea, Vietnam and Thailand.