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IAEA DESIGNATED INTERNATIONAL CENTRE BASED ON RESEARCH REACTOR (ICERR)

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IAEA

International Atomic Energy Agency

Background

- Member States willing to develop nuclear national competences **often require access to research reactor (RR) facilities** typically to conduct nuclear R&D projects and E&T of young nuclear scientists, engineers and technicians
- **Accessing such facilities** can present significant challenges for some MSs. Though access to such nuclear infrastructure at various research organizations and/or universities is available, **it is often both expensive and cannot be quickly realized**
- World-wide there are **RRs facilities that have established long-standing nuclear R&D and capacity building programmes** at an international/regional level

ICERRs Concept: International CEnters based on Research Reactors

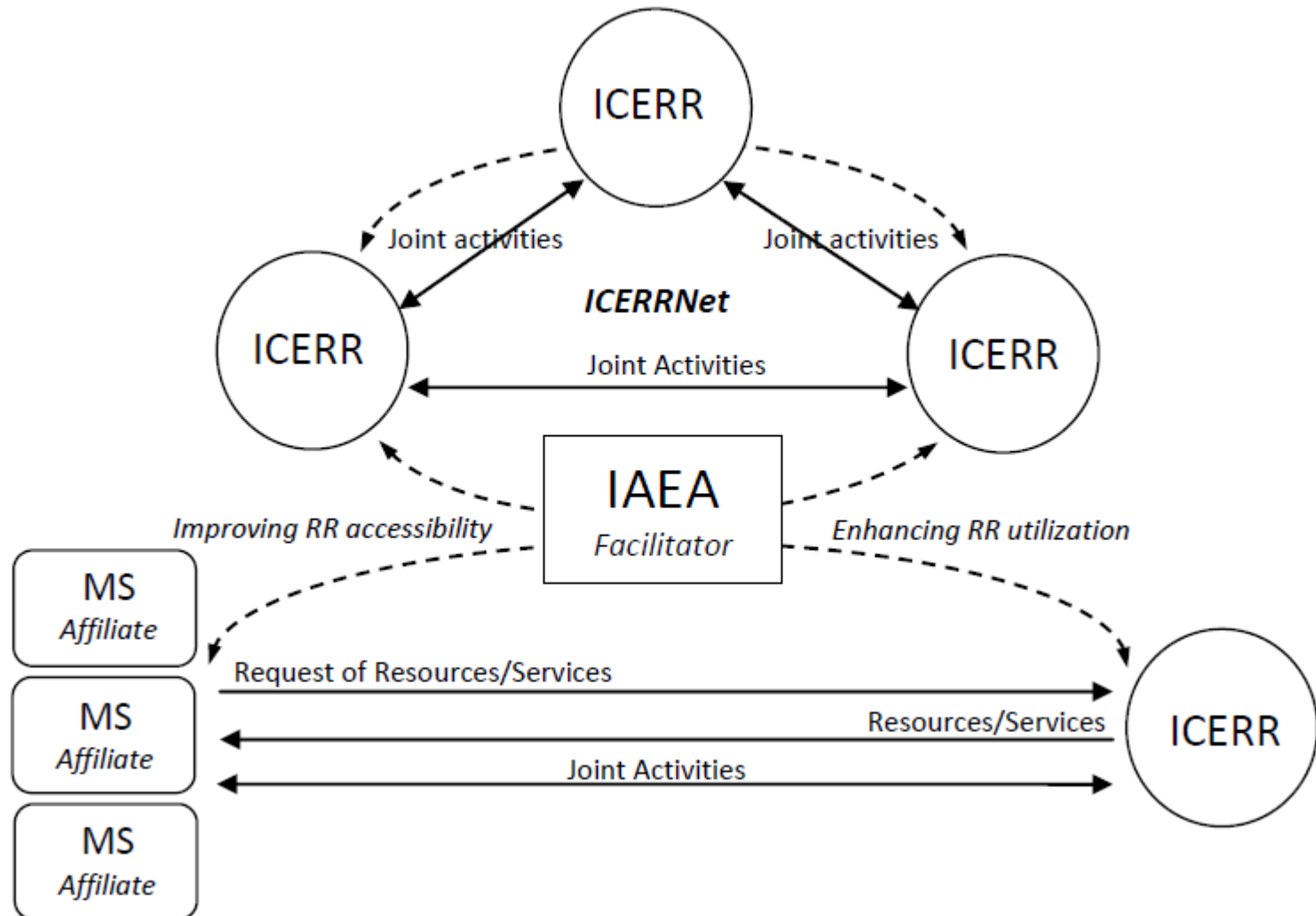
- The “**IAEA designated International Centre based on Research Reactor**” (ICERR) **scheme** is intended to **help IAEA MSs gaining timely access to relevant nuclear infrastructure based on RRs and their ancillary facilities (AFs)**
- ICERRs will make available their RRs and AFs and resources to organizations of IAEA MSs seeking access to such nuclear infrastructure (named **Affiliates**)
- **To Affiliates**, ICERRs will provide an opportunity to **access RR capabilities much sooner and, probably, at a lower cost**; on the other hand, an ICERR could benefit from **additional scientific and/or technical resources made available by the Affiliate** and by the **increase of its international visibility**
- The implementation of the **ICERR scheme** will also **contribute to enhance the utilization** of some existing RR facilities and, by fostering wider utilization in cooperative manner of RR(s) and AFs capabilities, also contribute to the development and deployment of innovative nuclear technologies

ICERR Scheme (1/2)

- ICERRs are IAEA MSs organizations and/or institutions operating or constructing one or more RR(s) and AFs that, upon request, have been designated by the IAEA on the basis of established criteria
- To enhance the collaboration among ICERRs, a network will be established by the IAEA (named ICERRNet), allowing ICERRs to share experience and lessons learned, coordinate and rationalize their offer of facilities, resources and services to interested IAEA MSs, etc.
- The ICERR-Affiliate relationship is established through a bilateral agreement
- IAEA role/functions:
 - *Facilitator to develop relationships between ICERRs and Affiliates and within ICERRnet*
 - *Designating body responsible for ensuring that an ICERR candidate meets the establish criteria*
 - *Promoter for enhancing utilization of existing RR facilities*
 - *Upon request, may provide support to an Affiliate, including financial and/or for the identification and selection of the ICERR*

ICERR Scheme (2/2)

IAEA designated International Centre based on Research Reactor (ICERR) Scheme



Eligibility for ICERR Designation

- An IAEA Member States' organization and/or institution is eligible to be designated by the IAEA as ICERR if:
 - ✓ It operates or is constructing one or more RR(s)
 - ✓ It can demonstrate experience in hosting activities based on the RR with significant international/regional participation (these activities may or may not involve the IAEA)

- The Criteria for designation address **logistical capability**, **technical capability** and **sustainability**

Criteria for ICERR Designation

➤ Logistics Criteria

- *Established, demonstrated, adequate infrastructure and internal organization and experience to host international/regional scientists, engineers, technicians and students*

➤ Technical criteria

- *Demonstrated experience in promoting and participating in collaborations at international/regional level*

➤ Sustainability Criteria

- *Demonstrated mid-term commitment (3-5 years) in terms of financial and human resources availability to assure continuous and reliable support to Affiliates*

Time schedule and ToR

- ICERR scheme as an **additional opportunity provided by the IAEA**, different but complementary to others (e.g. Coordinated Research Projects, Technical Cooperation Projects, Joint Initiatives, Collaborating Centres, etc.)

- **Time schedule for the implementation** of the ICERR scheme:
 - Q1/Q2-2015: First ICERR candidate(s) application(s) received;
 - Q1/Q2-2015: Evaluation of the ICERR candidature(s);
 - Q2/Q3-2015: Review mission(s) at each ICERR candidate's site;
 - Q3-2015: Designation of the ICERR status and award of an official plaque during the 59th IAEA General Conference (Sept. 2015)

- ICERR Terms of Reference can be download from the IAEA web-page
http://www.iaea.org/OurWork/ST/NE/NEFW/Technical-Areas/RRS/documents/ICERR_Concept_ToR_Final.pdf

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