



POCATOM

IRC MBIR Advisory Board



International Research Center Consortium: Perimeters of Responsibility

ROSATOM / RIAR



- Operating the reactor
- Liabilities, operation & maintenance
- R&D program execution
- Laboratory assist
- ICERR status from IAEA



International Research Center Consortium

Technical services

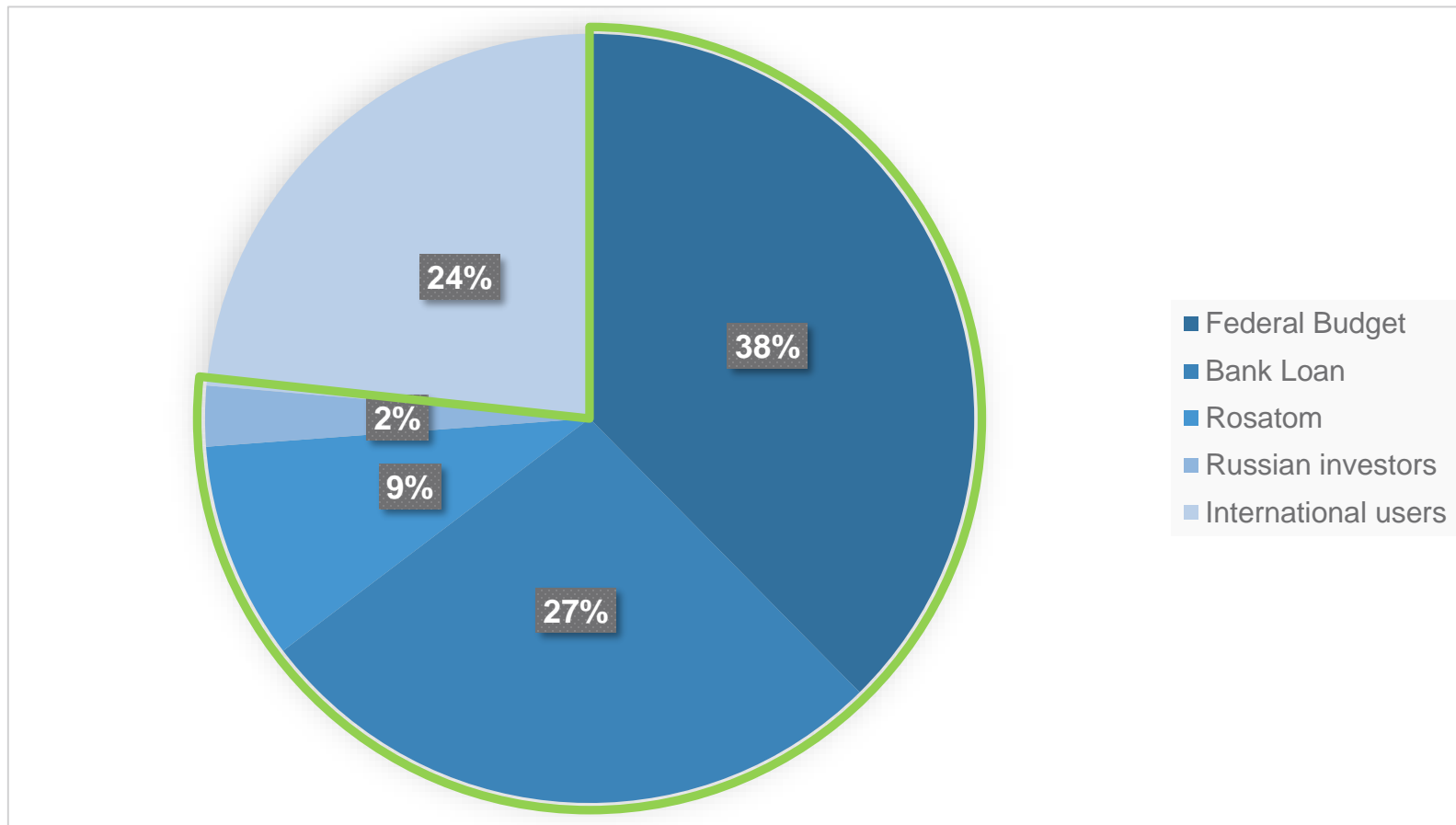


Financial resources



- R&D program administration
- Joint activities management
- Reactor services marketing and PR
- Managing of joint financing
- IP servicing
- NEA OECD multilateral R&D program support

Approved Financing Scheme



Joining and Exiting Mechanisms

New members:

New consortium members have to fulfil certain criteria.

New members can join only by purchasing the services rights from one of the Principal members.

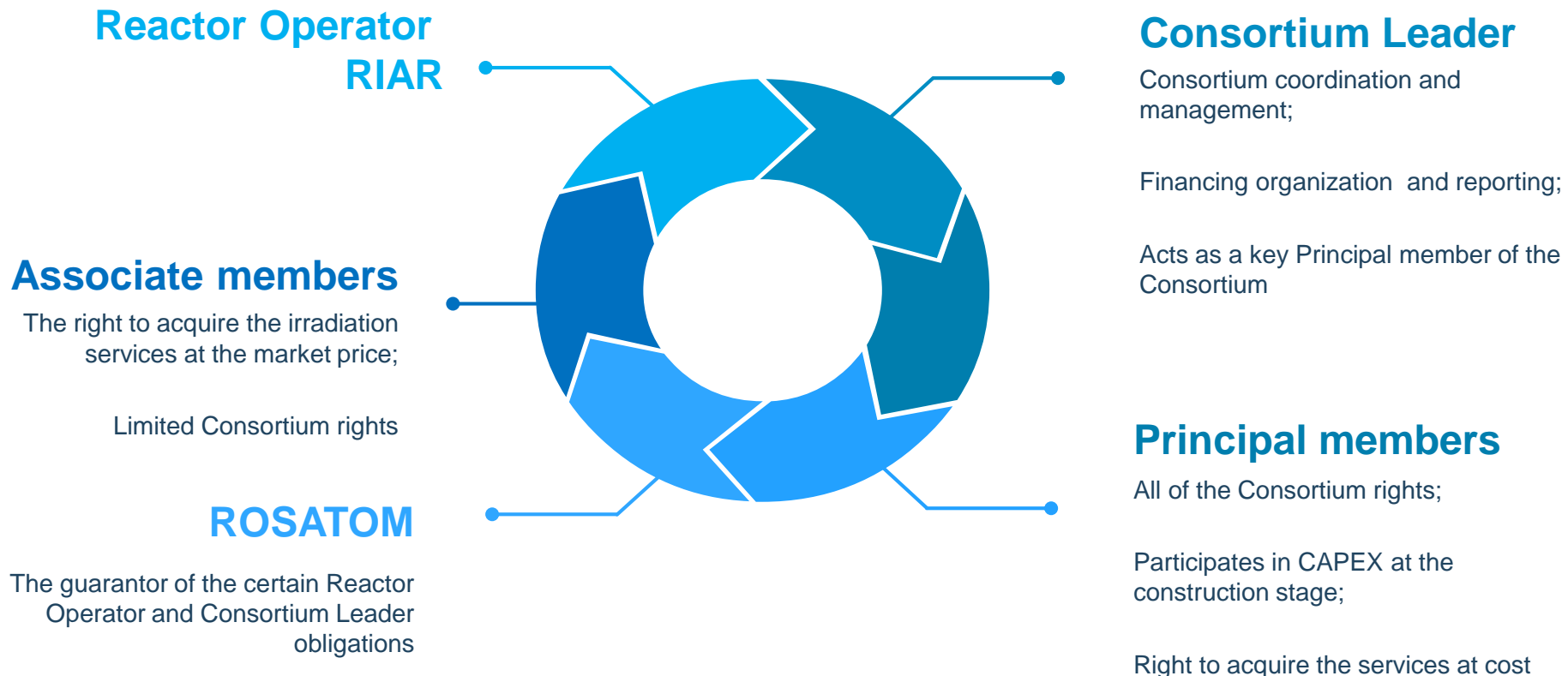
Associate members join the Consortium Agreement only under the condition of the services contract signing with the reactor operator and stay the member only for the duration of such contract.



Consortium exit mechanism:

Principal members exit is not allowed at the construction stage, except for the transfer of their services rights / financial obligations. The buyer of the respective share should fulfill certain criteria and be approved by the Consortium Leader.

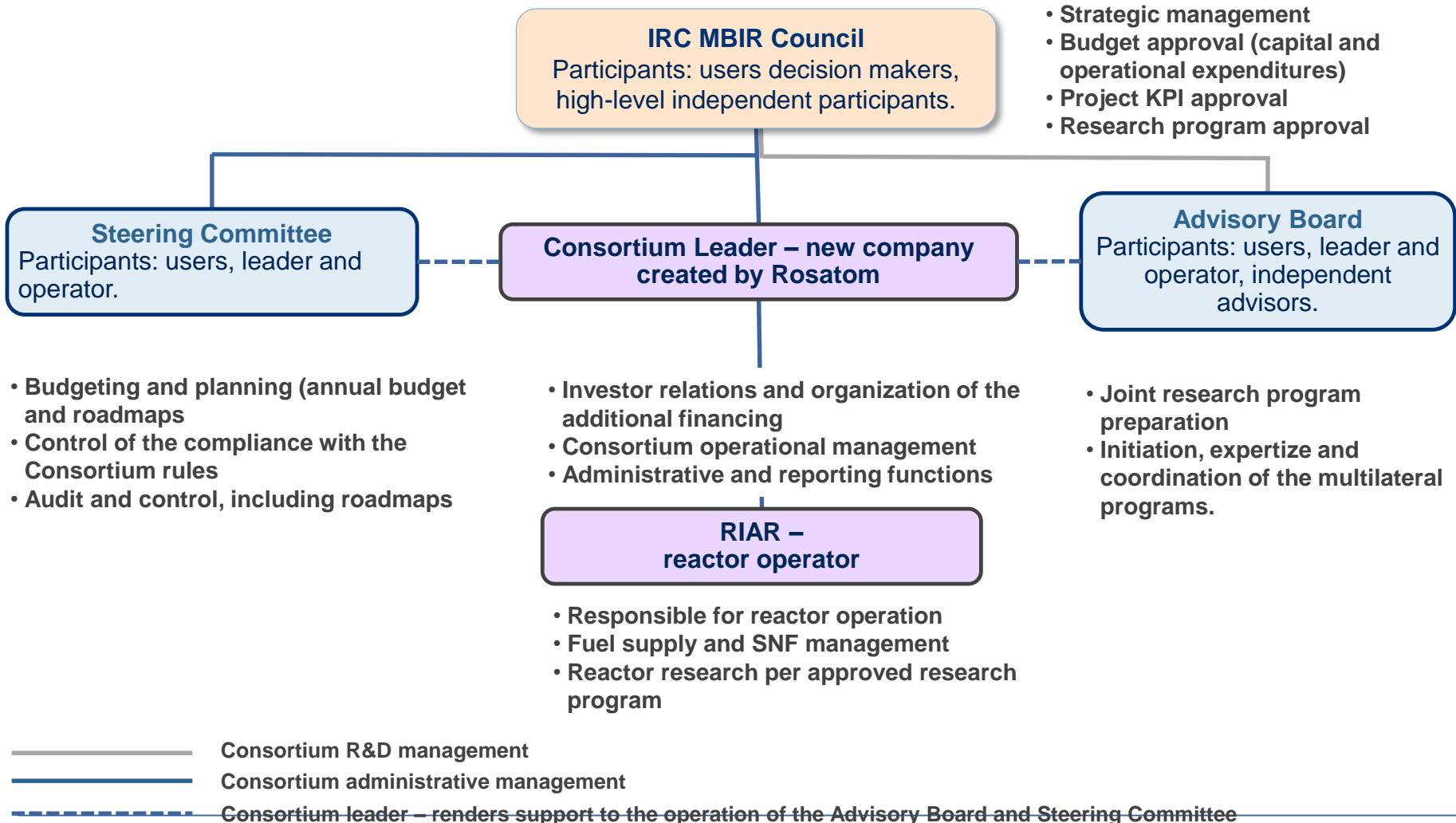
Consortium Agreement Parties and Their Respective Rights



Rights for Services Distribution

- Consortium Agreement provide the Principal member with the right to conclude the services contract for irradiation with the Reactor operator for the reactor core based on the conditions listed in the Consortium Agreement.
- Rights to receive the services, which are numerated as a share of the actual reactor capacity (calculated as $DPA \cdot I / \text{year}$), which are distributed among the Principal members (excluding the Consortium Leader) proportionally to the provided financing.
- Consortium Leader will have the right for services provided by the use of the rest of the core (meaning the non-distributed resource) in order to provide financing to finalize the reactor construction.
- After the reactor commissioning the Principal members can transfer their right for services (in full or partially) to any third party, fulfilling the conditions and giving that Consortium Leader will have the priority right to buy those rights for services.

International Research Center Consortium Management Structure



IRC MBIR Advisory Board

General information:

- Regular consultative body
- Review and advise the Council and the Management Committee on science and technology issues concerning the implementation of the MBIR project and the MBIR research activities

Key responsibilities:

- Coordination of the research proposals and initiation and administration of multilateral research programs
- Analysis and prioritisation of the research areas and monitoring of advanced trends in reactor technologies and market demand for innovations in reactor technologies and reactor services
- Development of the Research Program and monitor its implementation
- Manage utilisation of the technical resources of the MBIR reactor

Decision making:

- All matters put to a vote shall require unanimous approval by all Members and the Operating Company. In case of a disagreement, the disagreement accompanied with sufficient details (including on implications of the relevant decision) shall be documented in the record of decisions and escalated for consideration by the IRC MBIR Council.

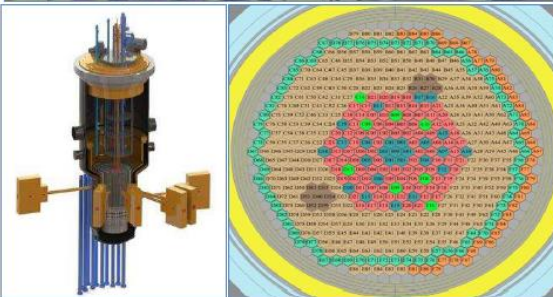
IRC MBIR Advisory Board participation

- Representatives of the Members, the Leader, the Operating Company
- institutional parties which have indicated their intention to accede the Consortium as Members and current or potential partners and/or participants in multilateral programs relating to the MBIR
- Each AMember shall be represented by up to two representatives
- The representatives may be accompanied by upto 3 advisers or experts to any Advisory Board meeting.

Multilateral Research Program



ПОКАТОМ STATE ATOMIC ENERGY CORPORATION «ROSATOM»



Multilateral Research Program
International Research Center MBIR
Proposal on R&D activities (Fuels and Materials) for the Ten Year
Period 2025-2035

Authors: Gulevich A.V., Klinov D.A.

Contents

Research into advanced fuel materials performance

Testing of advanced fuel element materials in transient, power cycling and emergency conditions

Testing of advanced structural materials

Testing of absorbing, moderating and composite materials for innovative nuclear systems

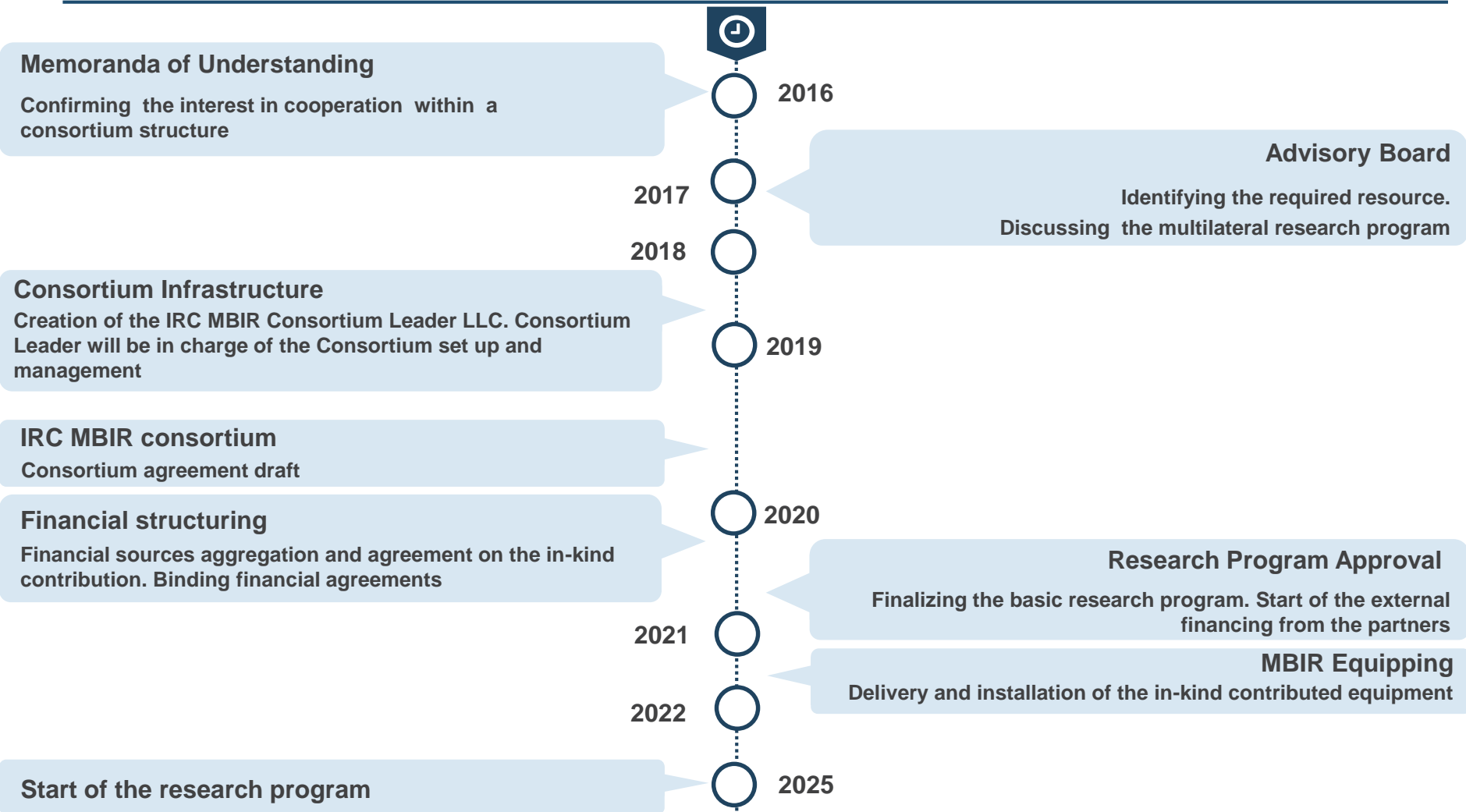
Research into new and modified liquid metal coolants

Life tests of new equipment types for innovative nuclear systems.

Conducting of reactor physics, materials, thermal hydraulics and other research for computer code verification

Applied experimental work, using reactor radiation.

International Research Center MBIR Road Map





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