



ROSATOM

Rosatom State Atomic Energy Corporation

Rusatom Service Portfolio



RUSATOMSERVICE



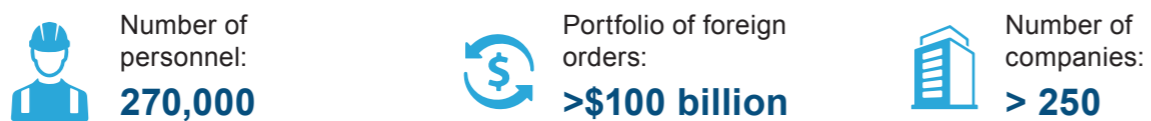


Rusatom Service, a part of the Electricity Division of Rosatom State Corporation, acts as an integrator of the Russian nuclear industry's service offering for foreign nuclear power plants at the operation period

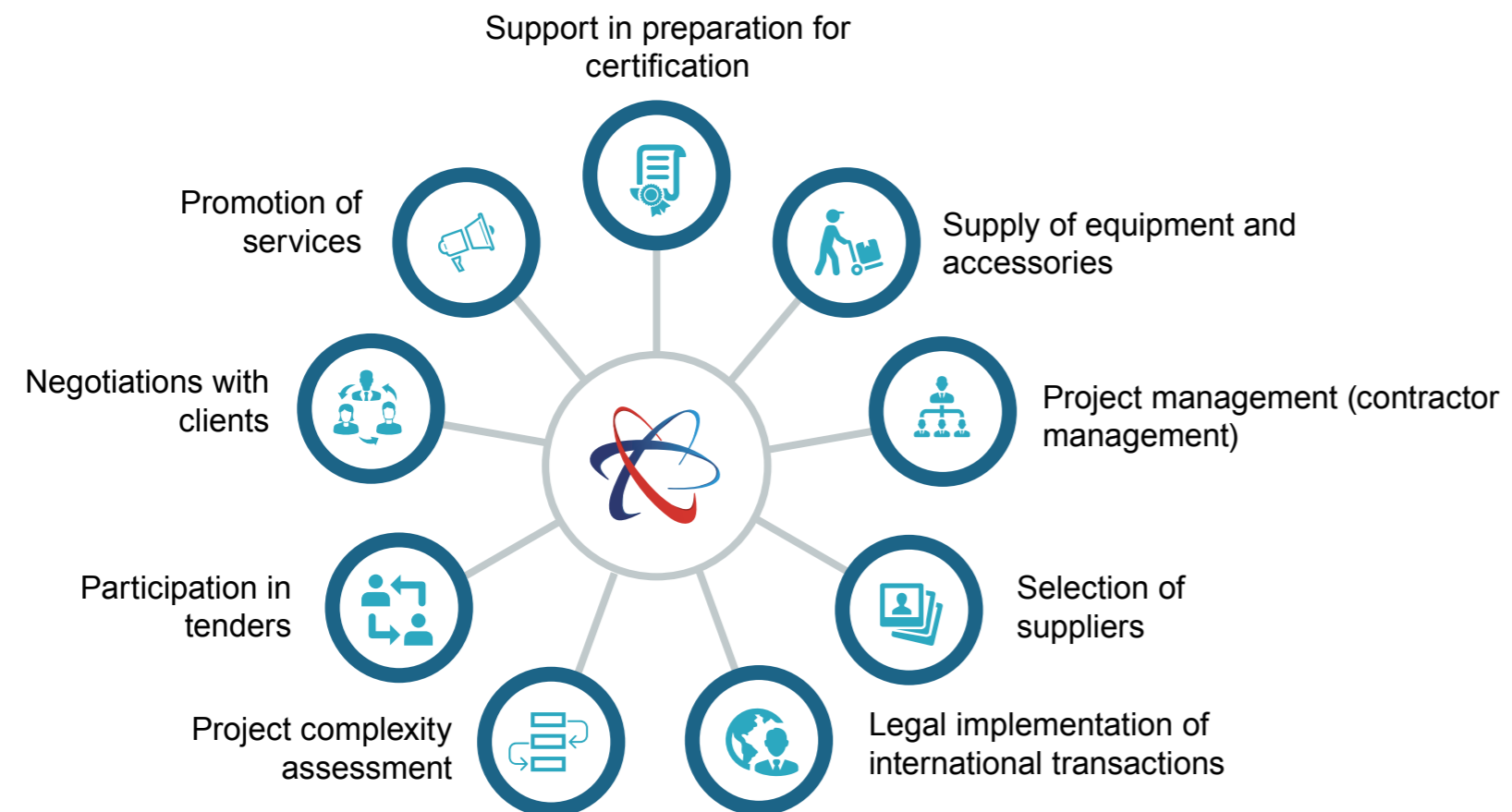
Rosatom is a Leader in Key Segments



Rosatom in Numbers



Rusatom Service was created in 2011 by a board decision of Rosatom State Corporation in order to centralize service delivery for foreign nuclear power plants by Russian nuclear companies and to coordinate the activities of Russian contractors as part of Rosatom's long-term international activities strategy. The company serves as a single point of contact integrating the service offering of all Rosatom companies.



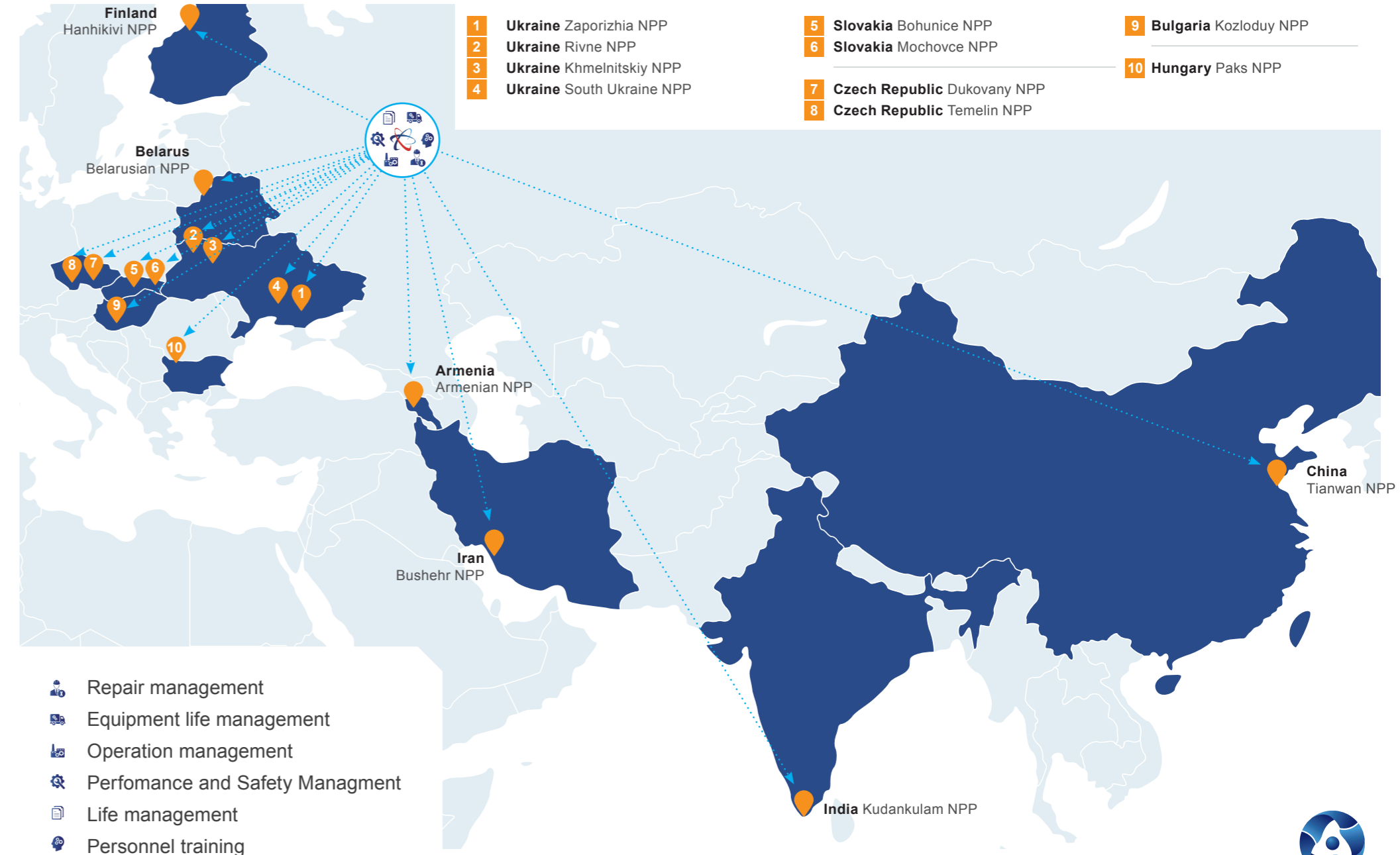
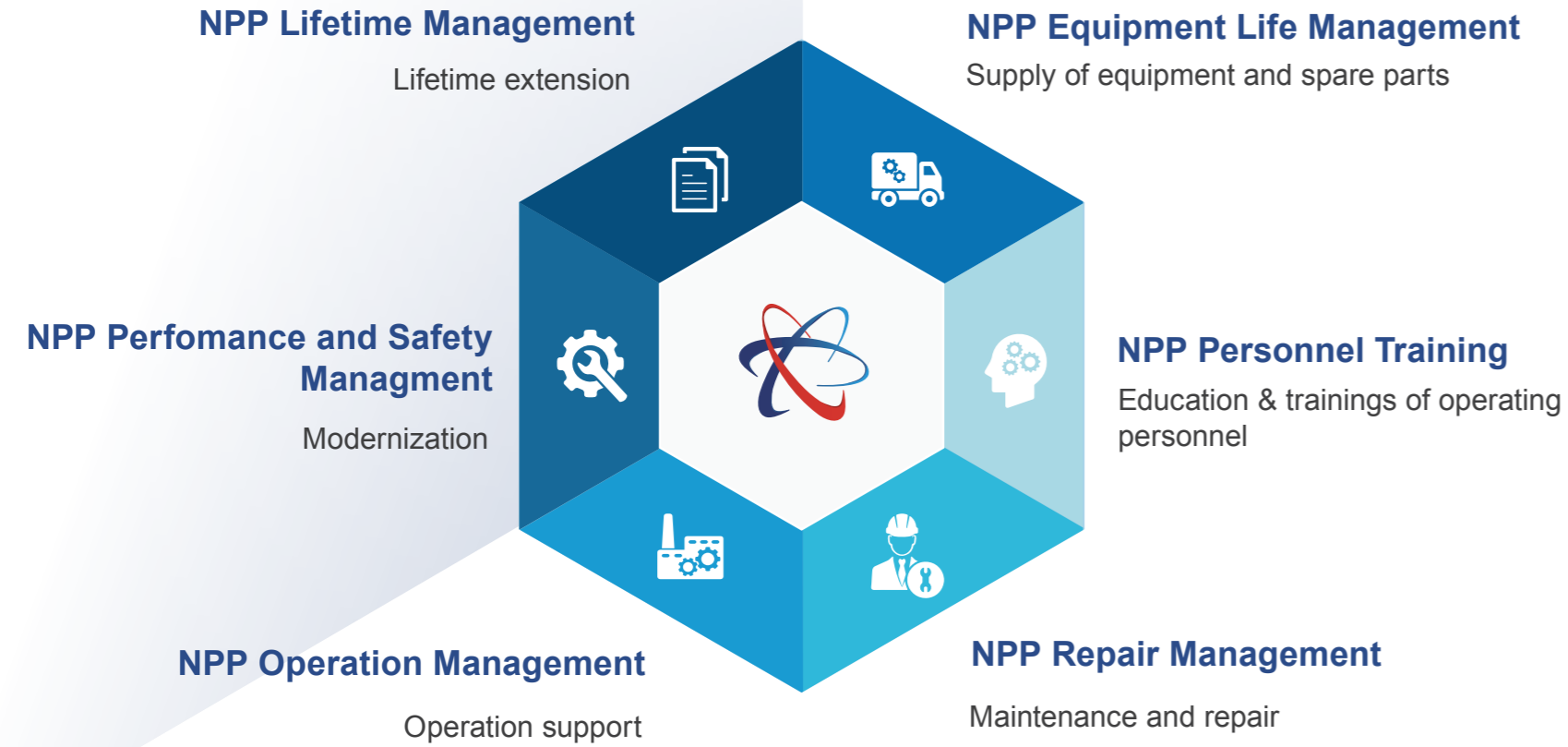
Benefits for Clients

- Complex service offering
- Experience and competence of the entire Russian nuclear industry
- Fast response to inquiries
- Cost optimization
- Ability to customize services to suit the customer's needs

Benefits for Suppliers

- Focus on foreign trade activities: knowledge of international standards and tendering procedures, cross-cultural differences.
- Provision of client feedback
- Determination of market needs for certain product configuration



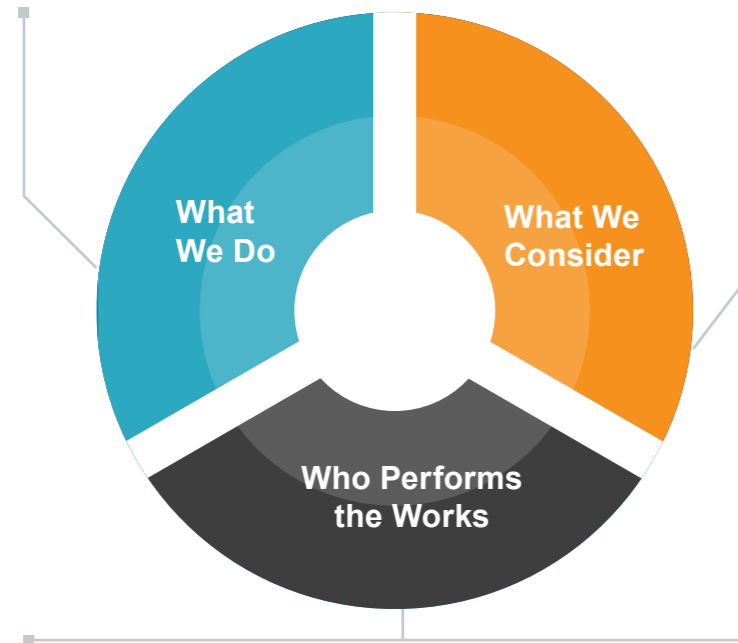


Comprehensive examination of a power unit

Modernization of a power unit in order to improve its safety level

Justification of remaining life of irreplaceable and non-renewable power unit elements

In-depth power unit safety assessment



Time limits: shorter time limits as compared to Russian extension projects

Training of local subcontractors

Development of multilanguage technical documentation

New experience for the customer and local regulators

Both Russian and local regulatory requirements

Key success factors and competitive advantages:

We offer innovative solutions

We have extensive experience and references from both Russian and foreign nuclear power plants

The works are performed by the following companies:

General designer of the reactor plant

Nuclear power plant design developers

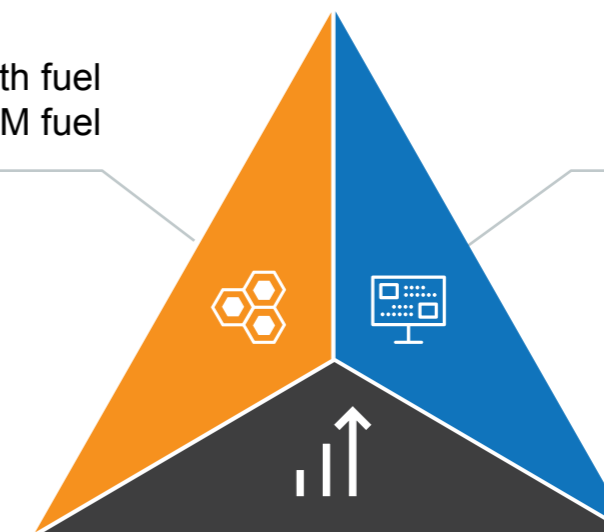
Manufacturers of main equipment

Research organizations

Local companies

International partners

Justification of transition to 18-month fuel cycle and TVS-2M fuel



Modernization of instrumentation and control (I&C) systems

Design

Manufacturing

Supply

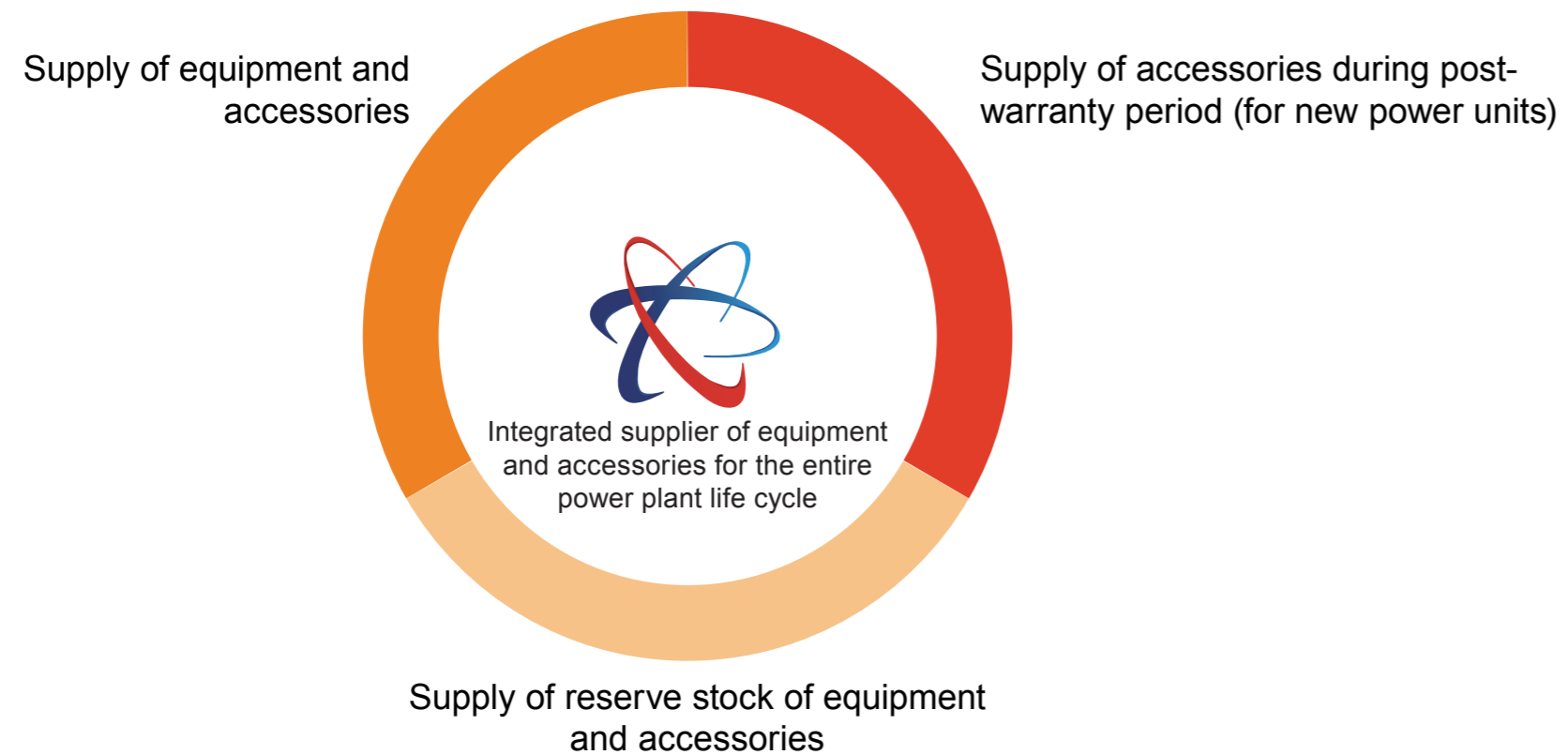
Installation and commissioning

Increase of power plant output

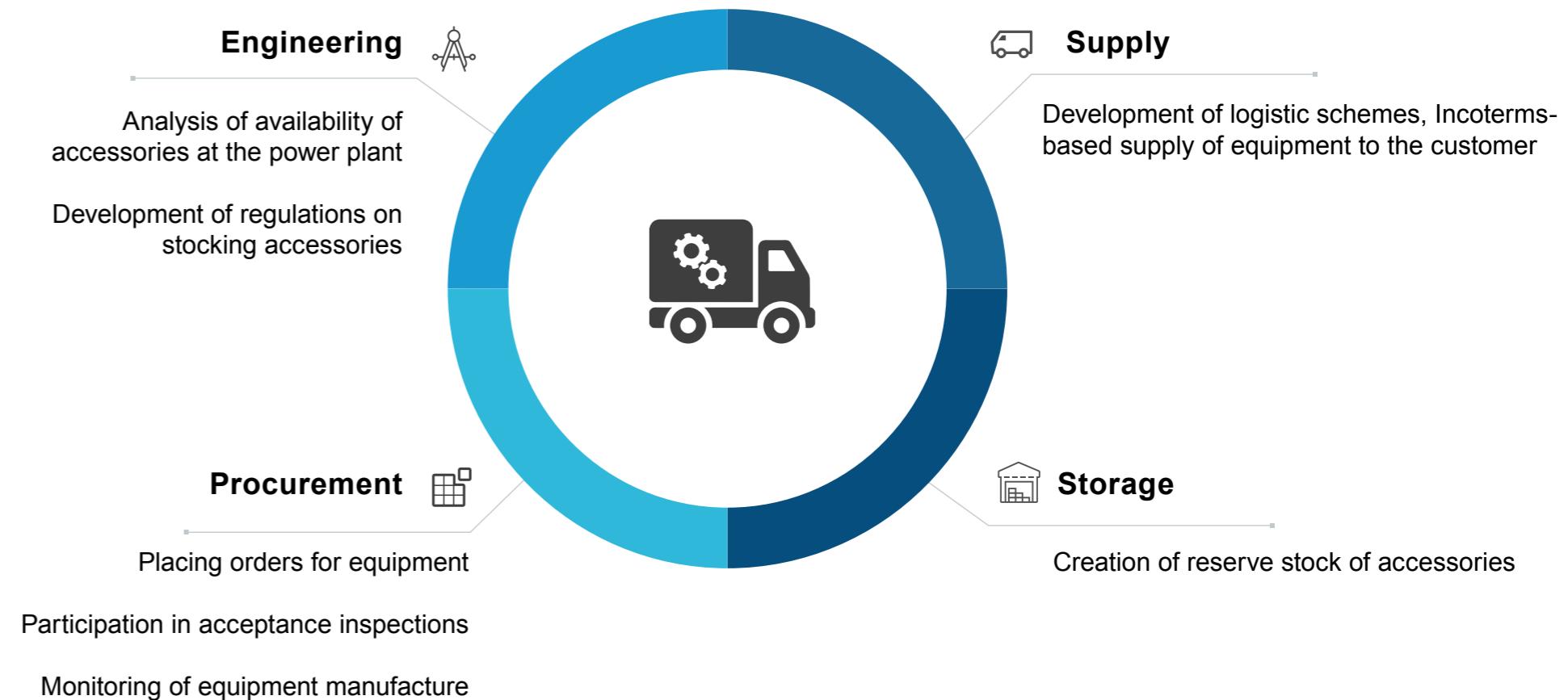
Justification of increase of reactor output

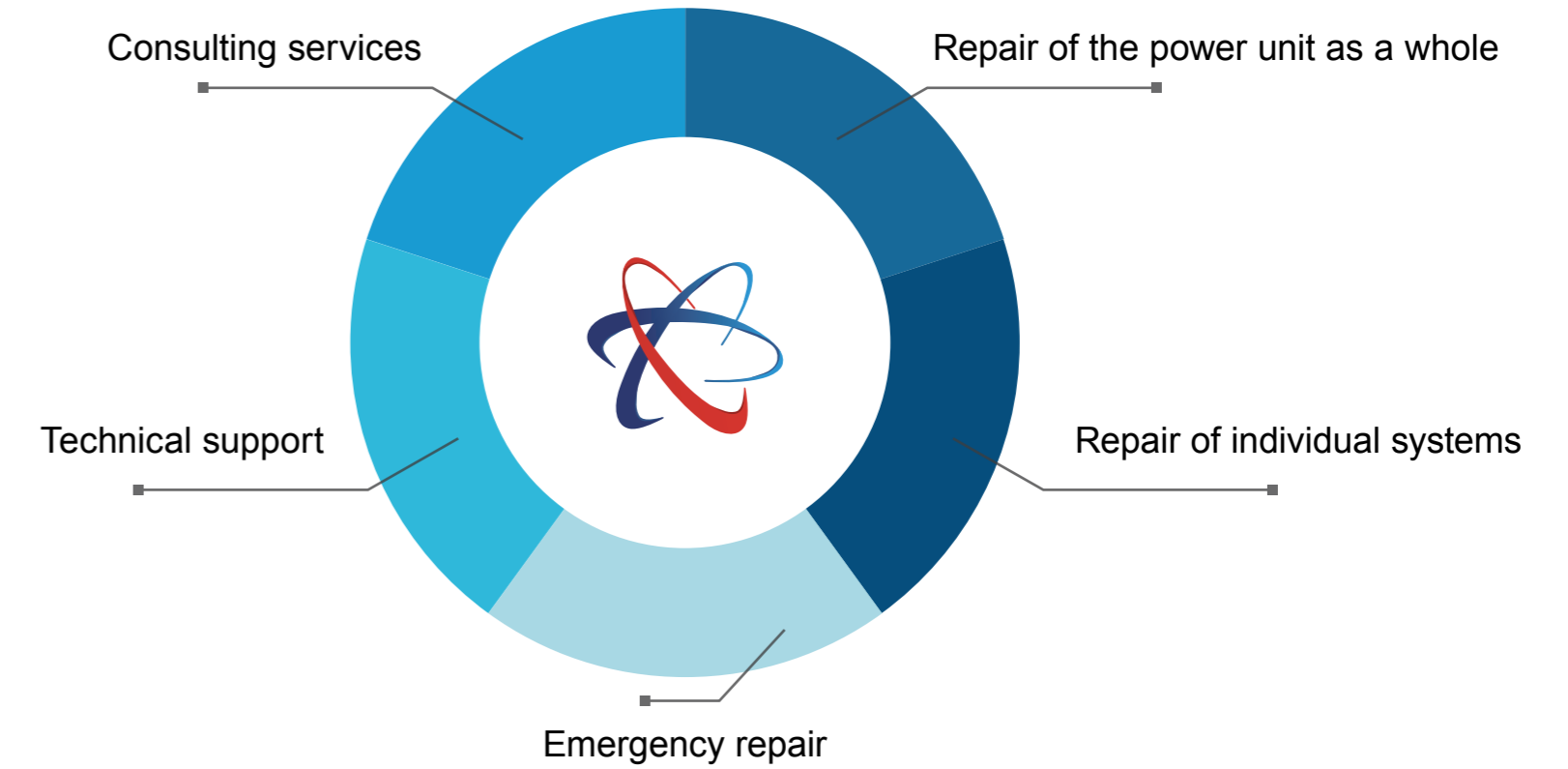
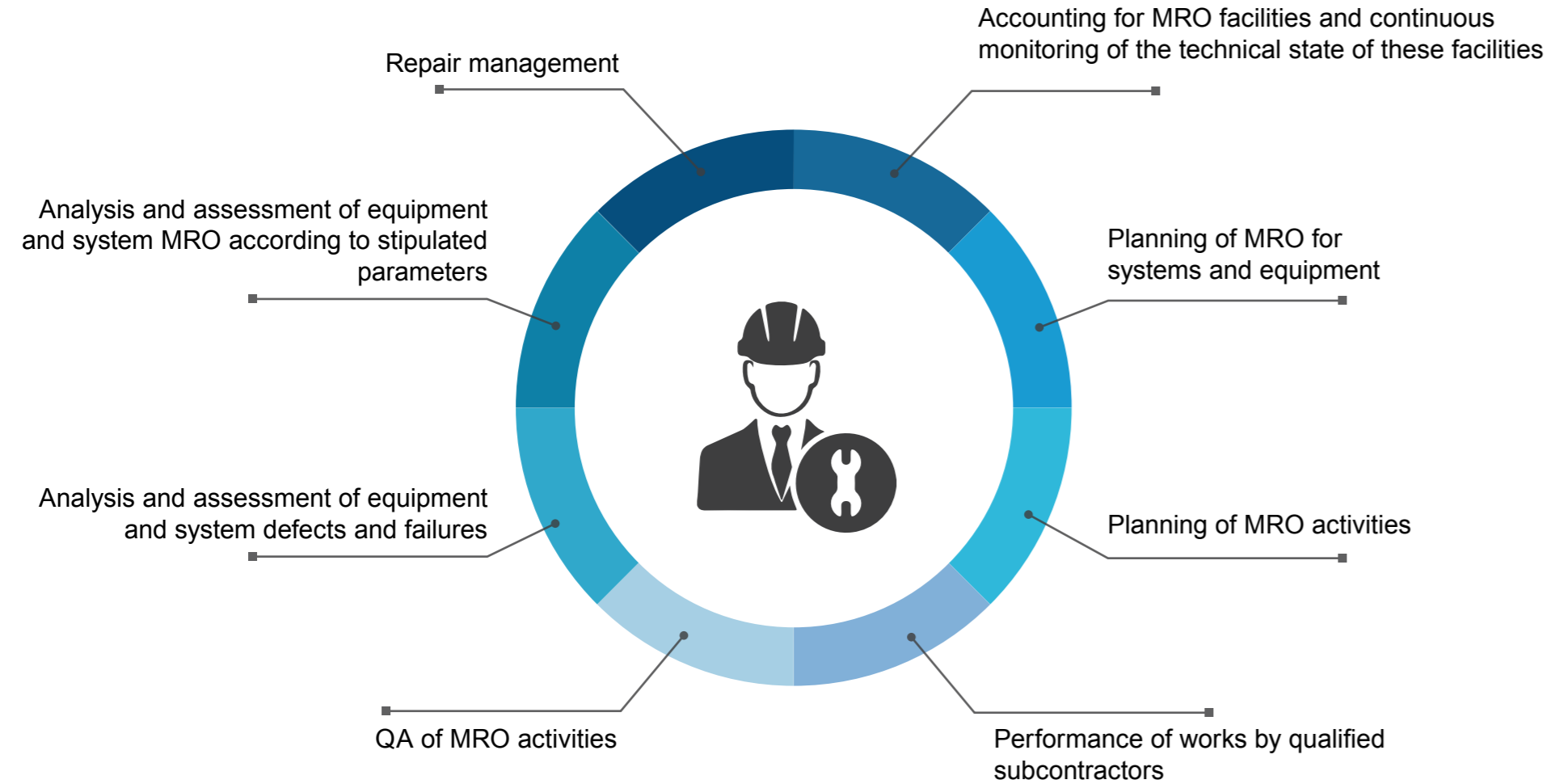
Modernization of equipment needed to implement power output increase

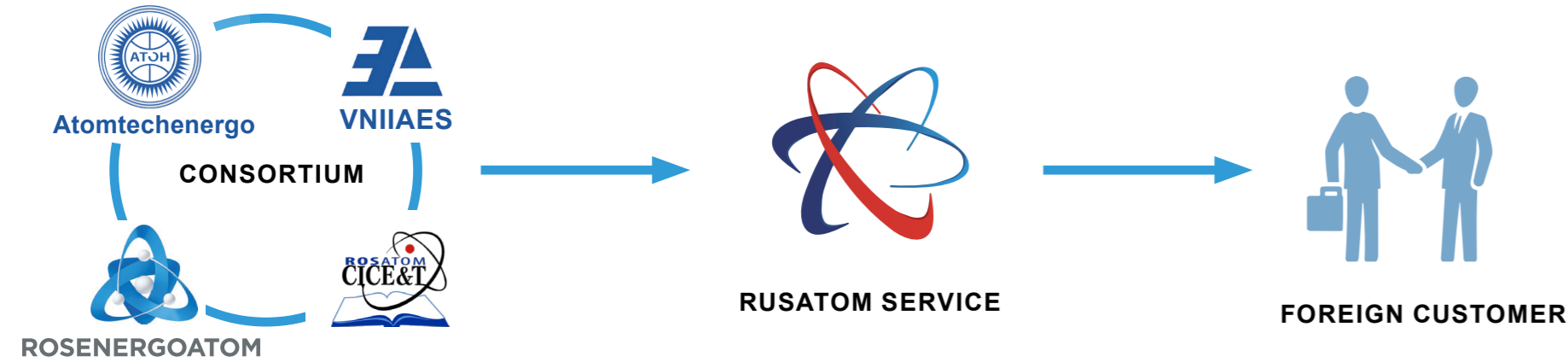
Modernization of power plant systems and equipment throughout the entire life cycle



Integrated supply of equipment, spare parts and materials required for operation, maintenance, repair, modernization, lifetime extension of the power plant



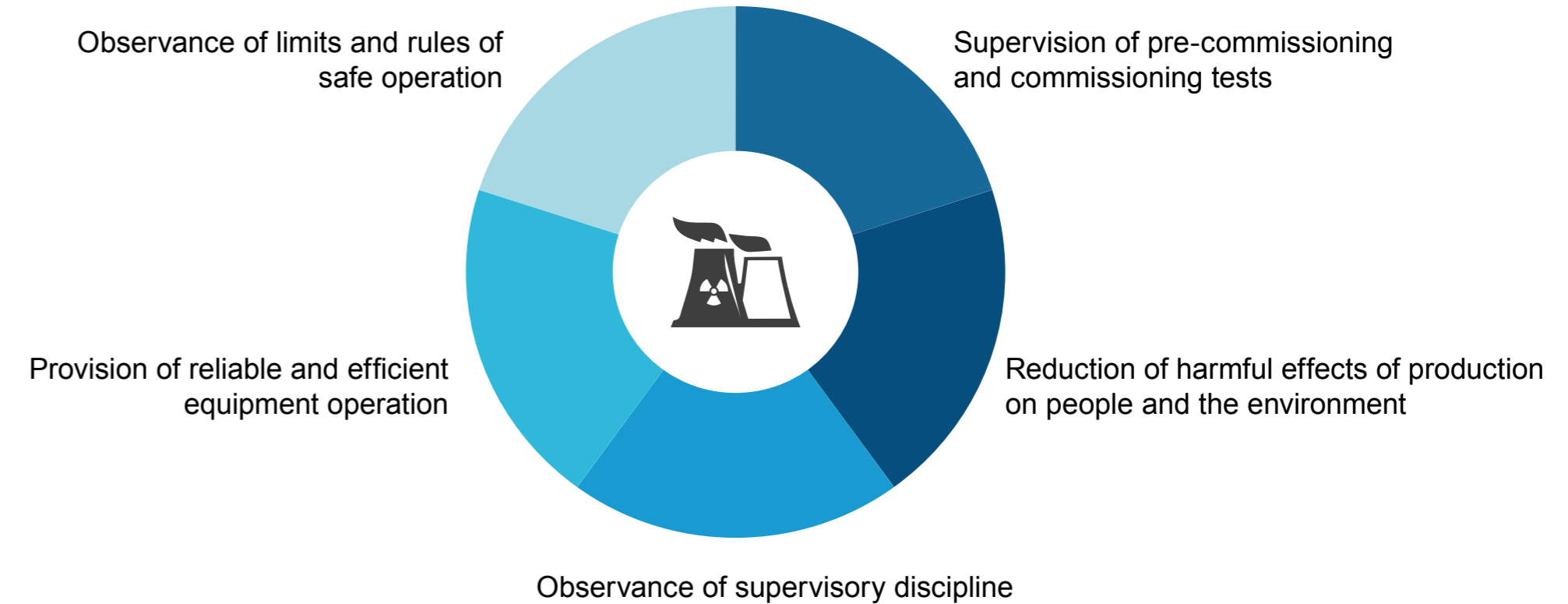




In order to provide a complete package of services, a Consortium consisting of contractors for training the foreign customer's personnel and a supplier of nuclear plants has been created. The Consortium also includes Concern Rosenergoatom, Atomtechenergo, CICE&T, and VNIIAES

Rusatom Service offers the experience of Concern Rosenergoatom in personnel training and has modern training facilities allowing to provide high-quality training to its foreign customers

Training is conducted in accordance with the QA program and procedures applicable to training of operating personnel agreed upon with the customer



Operation support services are one of the key elements of the integrated offer of Rusatom Service for the foreign market



The best practice consists in signing long-term service contracts for the entire life cycle of the power plant.

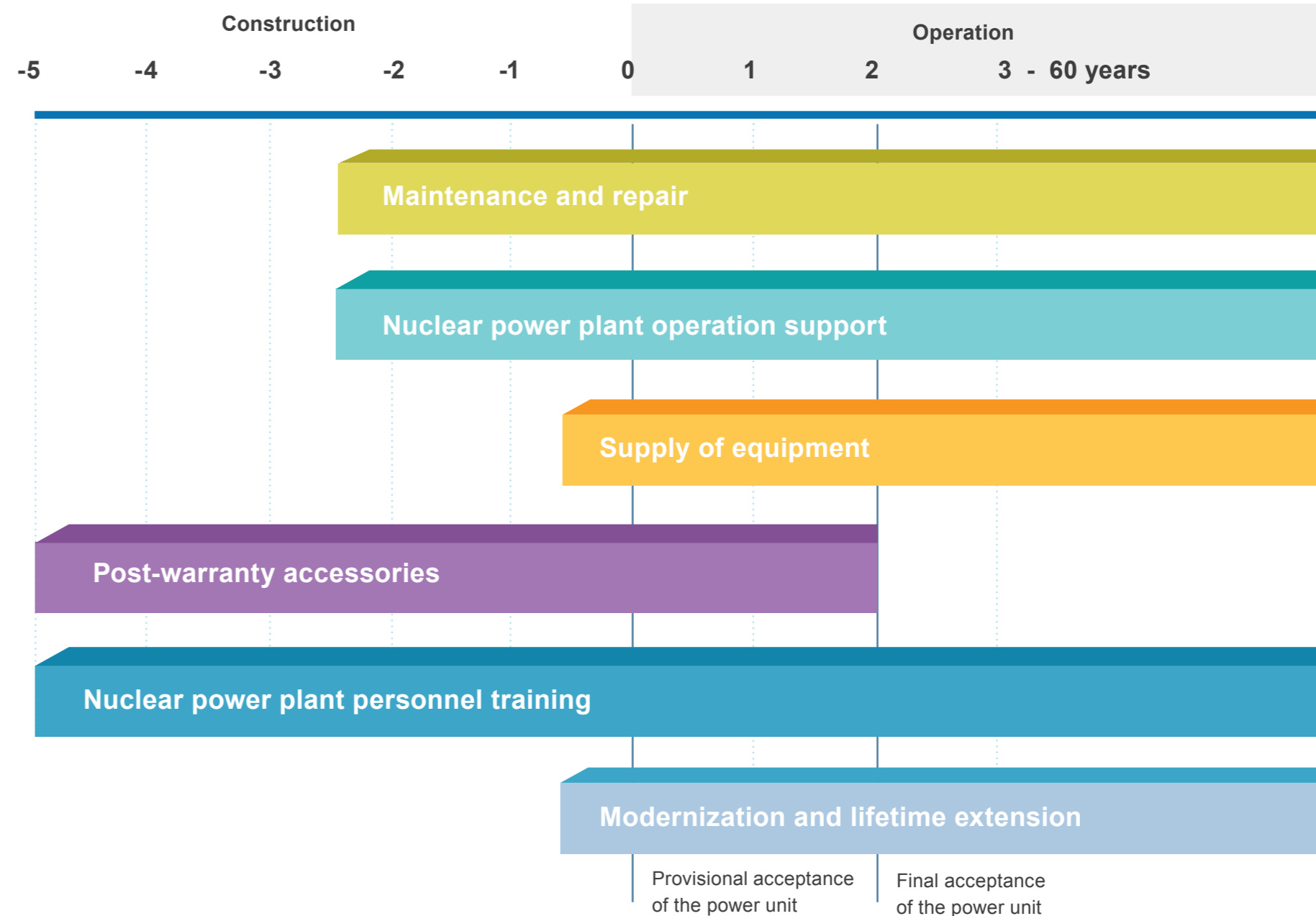
- Ability to provide long-term planning
- Bringing of service costs in line with revenues and maintenance of equipment
- Optimization of expenses for creation and maintenance of accessories warehouse
- Use of the service company's experience in other facilities
- Reduction of prices and costs in case of underutilization of own service departments

Organization of Support Services PAKS-2 NPP (Hungary)

Coordination of the integrated service proposal within 5 years of the entry of the power unit into operation

Organization of Support Services Hanhikivi NPP (Finland)

Coordination of the integrated service proposal within 10 years of the entry of the power unit into operation according to the contract





ROSATOM



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