



ROSATOM



WORLD ATOMIC WEEK

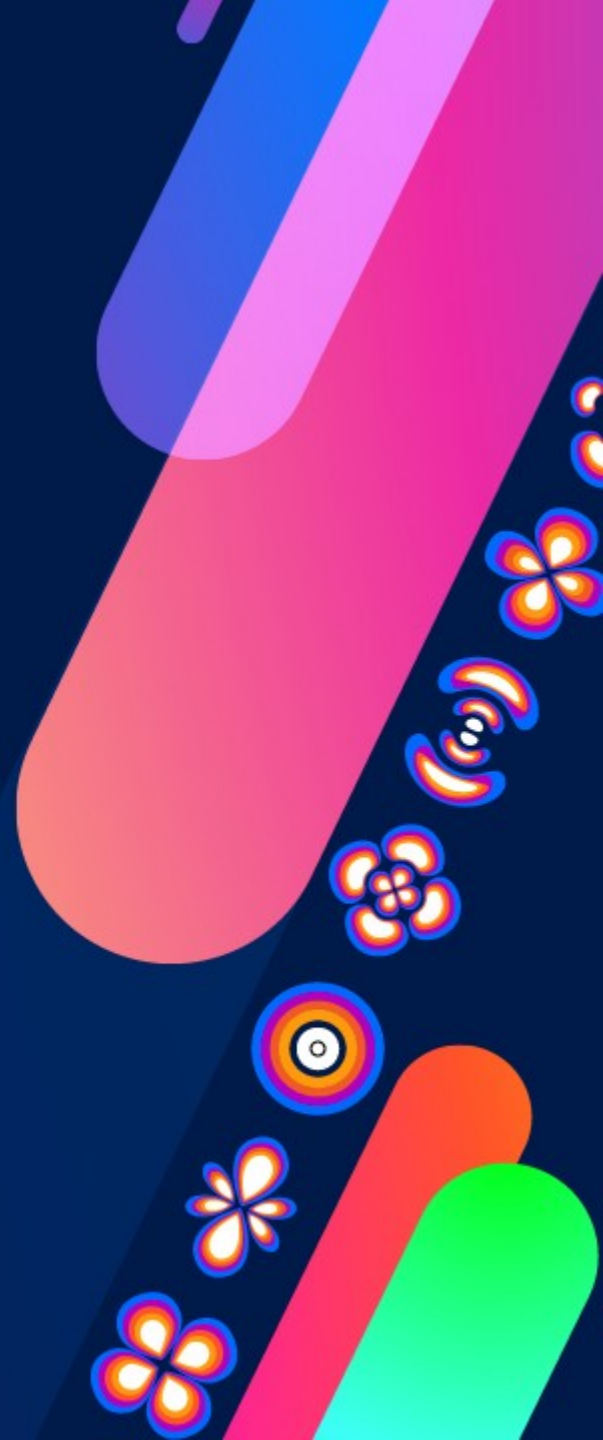


**YEARS
OF RUSSIAN
NUCLEAR INDUSTRY**

Human Capacity Building for National Nuclear Energy Programmes Through the IAEA Collaborating Center

**Mr Viktor Mazepov,
Director for International Cooperation
Rosatom Technical Academy**

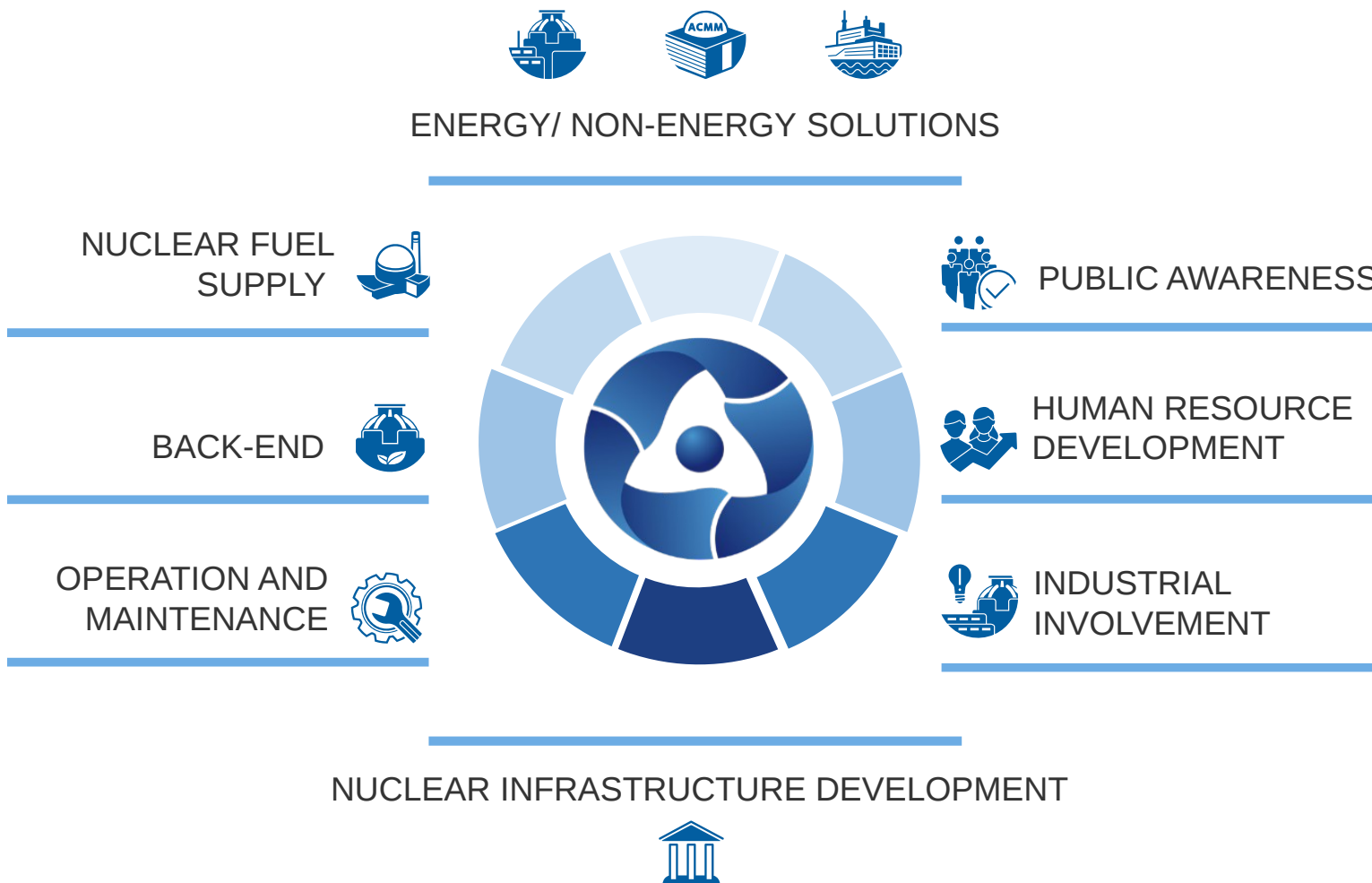
13.10.2025



STATE ATOMIC ENERGY CORPORATION ROSATOM



ROSATOM is a diversified holding company that possesses assets and expertise across all stages of the nuclear energy production and technological chain.



>400 ORGANIZATIONS AROUND THE WORLD

No1

In the world by number of nuclear power plant construction projects abroad (39 power units)

No2

In the world by uranium enrichment (35% of the global market)

No3

In the world by uranium reserves

In the world by uranium mining volume

In the world nuclear fuel market

THE ONLY
NUCLEAR ICEBREAKER
FLEET IN THE WORLD



IAEA COLLABORATING CENTER



Rosatom Technical Academy become an IAEA Collaborating Centre in **3 programmatic areas**



Nuclear Energy



Nuclear Security



Nuclear Sciences and Applications

+ Practical Arrangements in the area of Safeguards



On October 23rd, 2024

Rosatom Technical Academy prolonged its status as the IAEA Collaborating Center and extended the areas of collaboration into:



Small Modular Reactors



Medical Physics and Radiopharmaceutical

▶ **610.000 EUR**

voluntary contribution

INT2023 (SMR) + INT2024 (NI)
NEMS + NKMS

▶ **43 354 600 RUB**

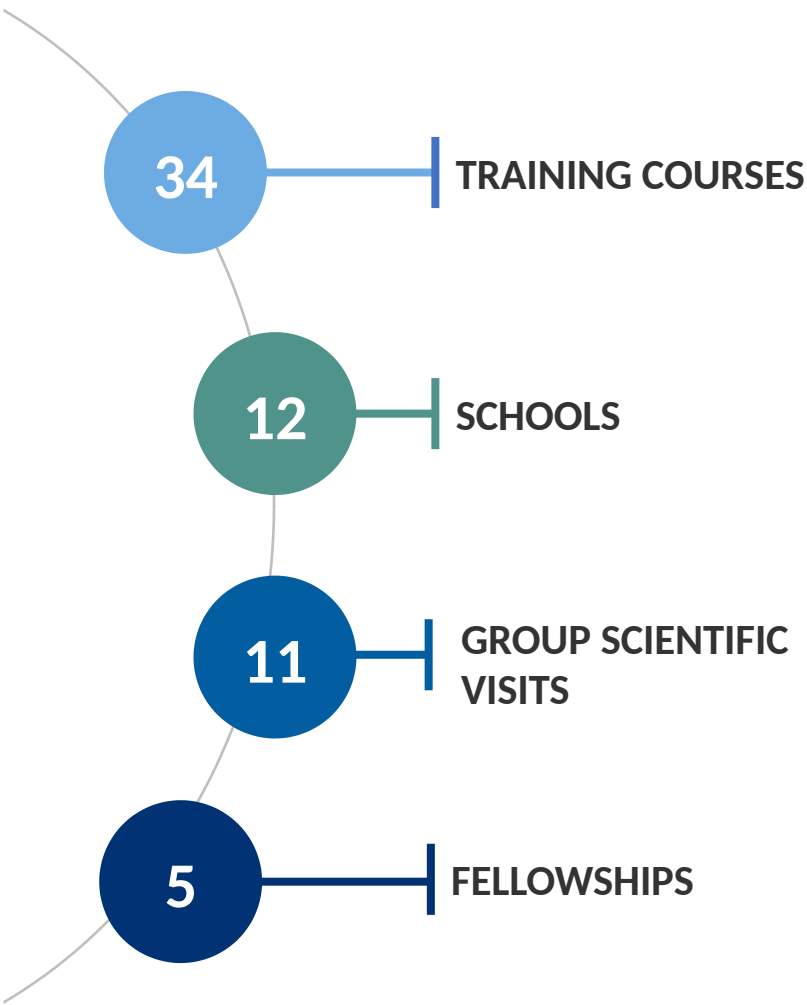
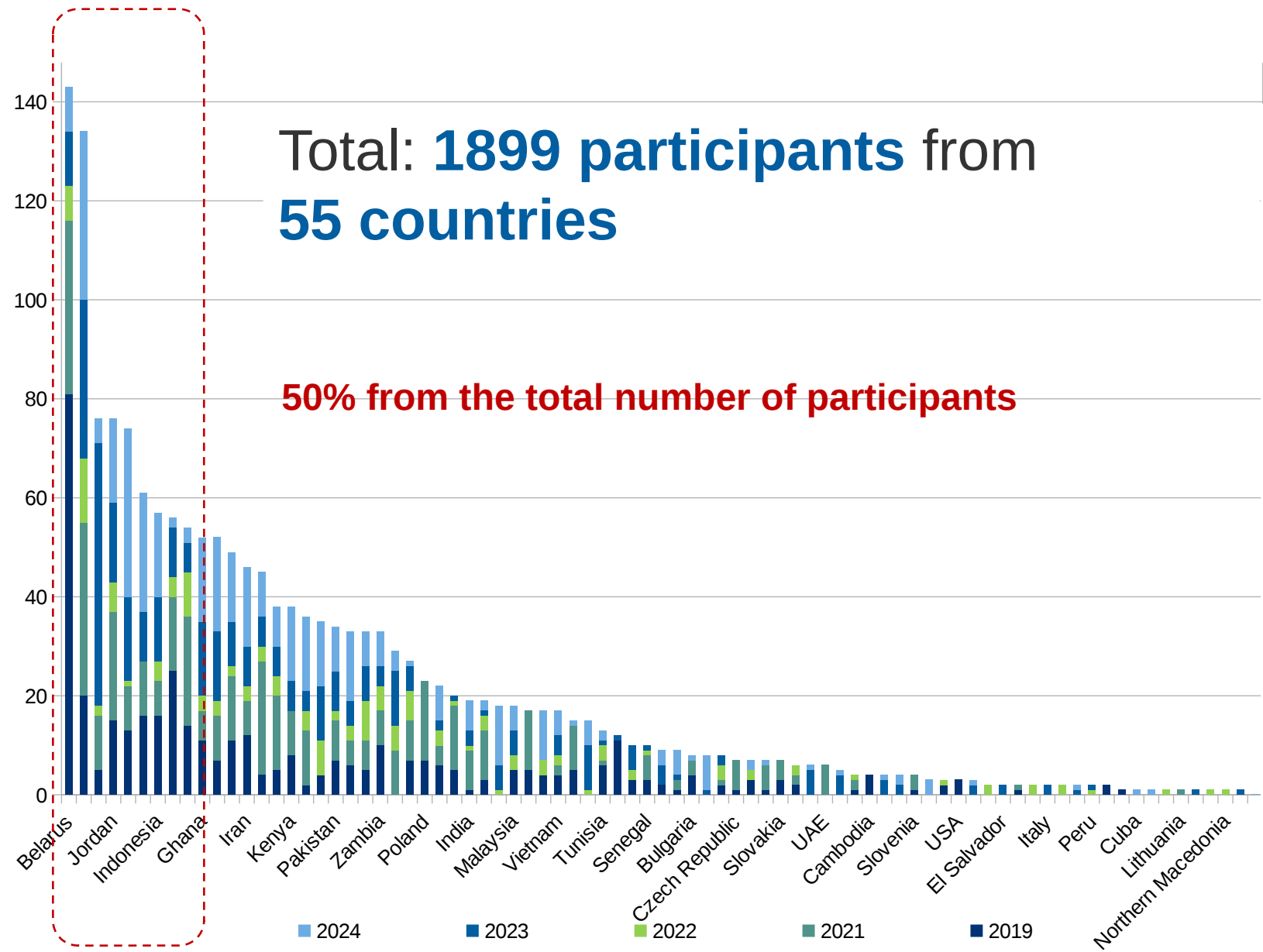
≈ 472.350 EUR

expenses related to the organization of
training events in Russia

▶ **Cost-Free experts**



NUMBER OF PEOPLE TRAINED SINCE 2019



TECHNICAL TOURS



Baltic Shipyard
St. Petersburg



Nuclear Fuel Fabrication Plant
Elektrostal



Virtual technical tour
the world's first floating NPP
«Akademik Lomonosov»



Leningrad NPP,
Sosnovyi Bor



Kalininskaya NPP,
Udomlya



Novovoronezh NPP,
Novovoronezh

ROSATOM TECH – IAEA TRAINING COURSES IN 2025



6 EVENTS

FROM THE BEGINNING OF THE YEAR

132

PARTICIPANTS

> 200

ACADEMIC
HOURS

5

TECHNICAL
TOURS

3

CITIES

22

COUNTRIES

Kalininskaya NPP
Baltic Shipyard
Maritime State University (MSU)
Far Eastern Federal University
Nuclear Fuel Production Plant

Moscow
Saint Petersburg
Vladivostok

Africa
Asia
Latin America
Europe
The Middle East

EVENT'S TOPICS:

- ▶ SITTING
- ▶ STAKEHOLDERS
- ▶ FEASIBILITY STUDY
- ▶ NUCLEAR FUEL CYCLE & RADIOACTIVE WASTE
- ▶ KNOWLEDGE MANAGEMENT

RUSSIA - IAEA SCHOOLS

The Rosatom Technical Academy organized two schools at the same time, which were held within the framework of World Atomic Week.

Joint Russian Federation – IAEA Advanced Nuclear Energy Management School

Moscow, Sept 28 – Oct 3

Joint Russian Federation – IAEA Nuclear Stakeholder Engagement School

Moscow, Sept 28 – Oct 3



60

PARTICIPANTS

28

COUNTIES

7

EXTERNAL
EXPERTS

12

LOCAL
EXPERTS



THE OPENING
CEREMONY AT
WORLD ATOMIC
WEEK EXHIBITION

TECHNICAL TOUR
ON KALININSKAY
NPP

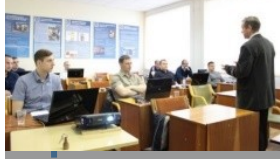


WORLD ATOMIC WEEK

COMPLETED PROJECTS AND PROJECTS IN PROGRESS FOR SMR PERSONNEL TRAINING



2015 2016 ... 2019 2020 2021 2023 ... **2025** 2026 2027 2028 2029 2030 2031

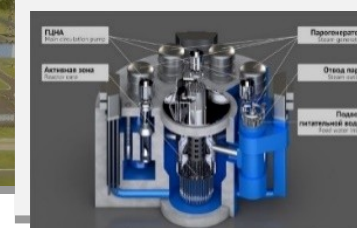


Personnel for the first FNPP floating power unit in Russia are trained

Stages of training at FNPP

- ▶ Entry level test (FNPP Training Centre)
- ▶ Development of an Individual training programme for a specific position (FNPP Training Centre)
- ▶ Theoretical training
- ▶ Simulator training (operating personnel)
- ▶ On-the-job training at FNPP
- ▶ Final test
- ▶ Initial knowledge assessment in the floating NPP management commission
- ▶ Obtaining a permit to perform works in the field of nuclear energy use in Rostekhnadzor (as per the List of RG RF № 240 from 03.03.97)
- ▶ Qualification test
- ▶ Permit to unsupervised work.

Russian Center of Competence for SMR Personnel Training.



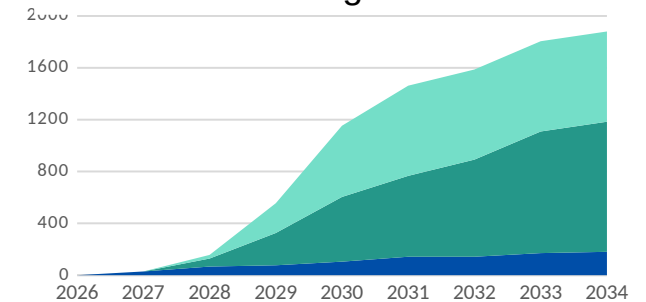
Development of training and methodological materials

Personnel training for BREST

Analysis of need for personnel is performed and training schedule is developed

From the September 1, 2015 the St. Petersburg branch of ROSATOM-CICE&T (Rosatom Technical Academy) the training for the first group of operational personnel of FNPP started

Need for land-based SMR personnel taking into account the commissioning timeframes



- Personnel to be licensed
- Unlicensed personnel
- International projects

Completion of personnel training for RITM-200



AHEAD-OF-DEMAND PERSONNEL TRAINING

Rosatom Technical Academy – the key educational partner of the advanced technological platform of the nuclear industry.



Advanced training of operational personnel for the BREST-OD-300 reactor

2022

Development of the personnel training system for the BREST-OD-300 reactor

2023

Launch of the development of training programs and instructional documentation

2024

30 position-specific training programs developed.
1,034 academic hours of instructional materials developed

2025

Development of 926 academic hours of instructional materials

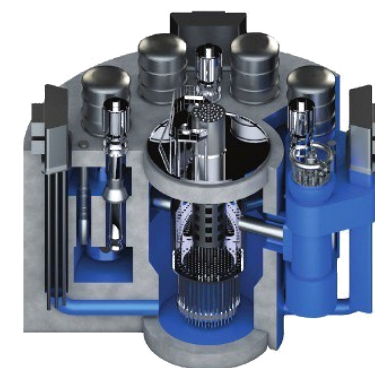
► The work is being carried out at the request of the Department of Scientific and Technical Programs and Projects of the State Corporation «Rosatom» and JSC «Breakthrough».

► JSC «Breakthrough» is the organization responsible for creating a new technological platform for nuclear energy based on a closed nuclear fuel cycle using fast neutron reactors.

The Rosatom Technical Academy has initiated the training of personnel for Generation IV nuclear energy systems

4 new training programs

- The main principles of dual-component nuclear energy;
- The BREST-OD-300 reactor with a lead coolant;
- Equipment and systems of the BREST-OD-300 turbine hall;



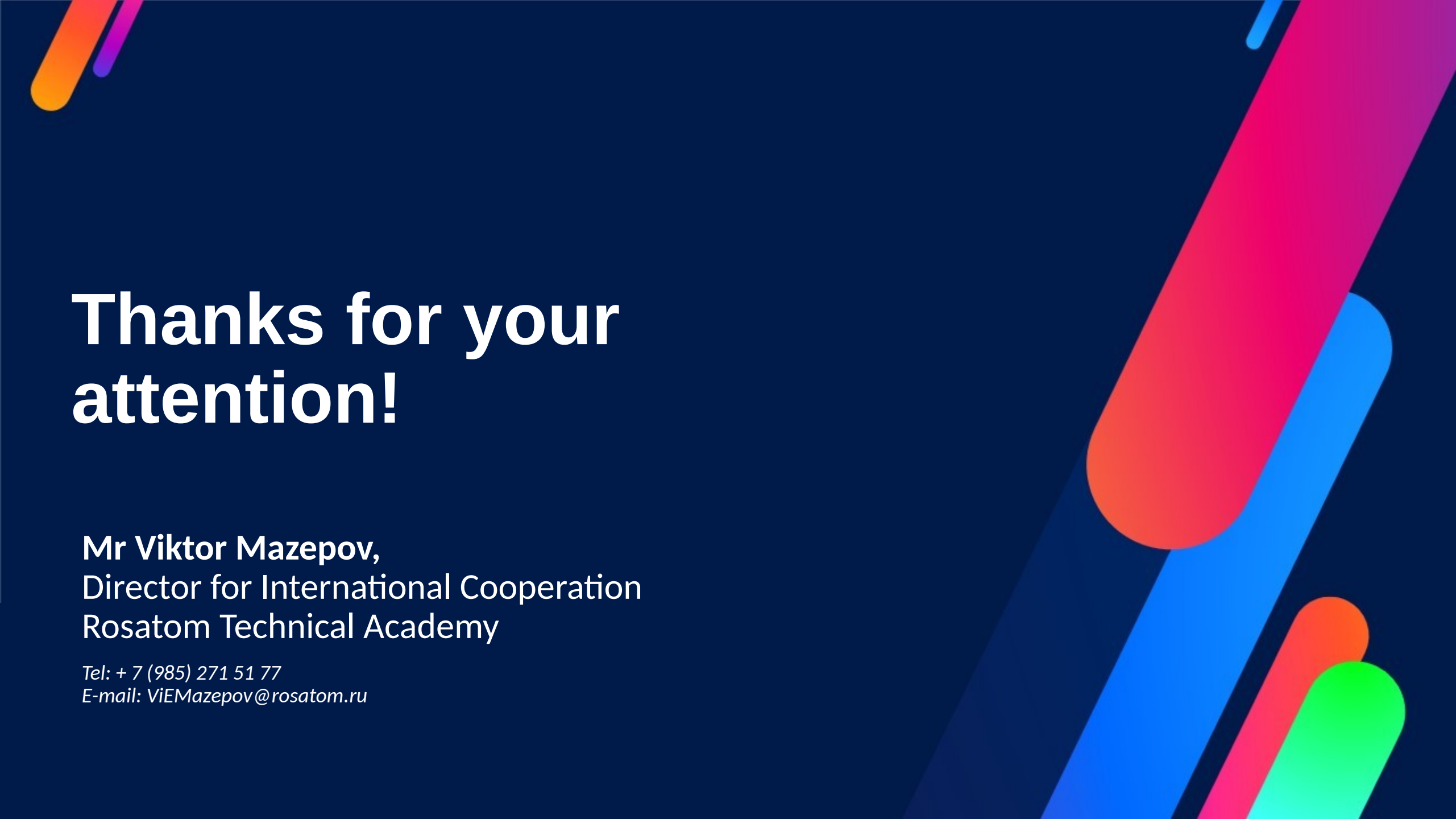
- Technology for producing mixed uranium-plutonium nitride fuel.

>420 specialists

trained in 2024

>20 organizations





Thanks for your attention!

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Rosatom Technical Academy

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