

## Expert Seminar “University Consortia: building up and running”



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## New university development projects in Russia: an overview

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# New University Development Projects

Russia has set the goal of becoming a top-five nation in its priority R&D areas

National projects: Research and Education

A network of **world-class centers for education and research (CEdRs)**, supported by integration between universities and research organizations and their collaborations with the real economy

**CEdRs** are tasked with devising an R&D model to stimulate regional technological development

**10 CEdRs** bring together 319 organizations:

- 8 universities-members of the Association
- research organizations
- companies operating in the real sector of economy

A network of **centres of research excellence (CRExs)**, including international centres for mathematics and genomics

**CRExs** conduct groundbreaking basic and exploratory research to address urgent global problems

**17 CRExs** bring together 83 organizations, including 14 universities-members of the Association

**Priority 2030 project:** launches in 2021

Goal: to establish research and higher education consortia

# Consortia's fields of research

## World-class centres for education and research (CEdRs):

- biomedicine and genetics
- health technology
- hi-tech personalized medicine and medical equipment industry
- sustainable use of resources
- ecology and environmental response
- biosecurity of humans, animals, and plants
- innovative manufacturing, components and innovative materials
- intelligent transport systems
- advanced digital technology
- power engineering
- digitalization and automation of manufacturing and services
- digital transformation of the oil and gas industry
- aerospace technologies and systems
- artificial intelligence
- hi-tech manufacturing in the Arctic
- civil engineering

## Centres for research excellence (CRExs):

- 4 centers for mathematics
- 3 centers for genomics
- 10 centers in 6 priority areas:
  - personalized medicine, hi-tech healthcare and health technology
  - high-yield clean agriculture and aquaculture; safe, high-quality and functional foods
  - clean sustainable power; sustainable use of mineral and biological resources at a regional level
  - Intelligent transport and telecommunications systems; exploration of the Earth and the Universe (space, the World Ocean, the Arctic and the Antarctic)
  - advanced digital technology and artificial intelligence, robotic systems and next-generation materials
  - humanities-based and social studies of interactions between humans and nature and humans and technology interactions; social institutions as the society's response to major challenges