



Kazakhstan – territory of academic knowledge:

ISTC'S Contribution to Building Global Science Partnerships

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Why ISTC is here today

- To enhance Kazakhstan's R&I growth and internationalization
- To share knowledge and experience on technology transfer and intersectoral collaboration
- To support national reforms
- To strengthen safety, security, and resilience
- To expand opportunities for partnerships and access to international funding
- To anchor science diplomacy and science-based evidence



ISTC at a Glance

- Founded in 1992 by the EU, USA, Japan and partners;
- HQ in Astana, operations across ~100 countries
- 4,700+ projects delivered | ~US\$1.5B total funding | 85,000 scientists supported
- Mission: Creating peaceful multilateral S&T collaboration for a safer, more secure, and sustainable world.



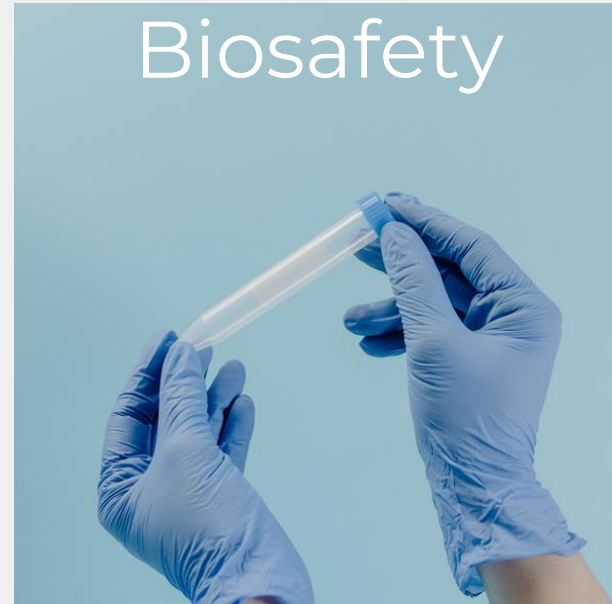
Why partners work with ISTC

Diplomatic status	Peer-review and quality assurance	Capacity- building	Project Management
Trusted Scientific Partnerships	Global scientific exchange	Coordinated regional projects	Cross-functional bilingual teams

For 30+ years we have connected science, technology, and society to address safety, security, and sustainability challenges

ISTC PRIORITY AREAS

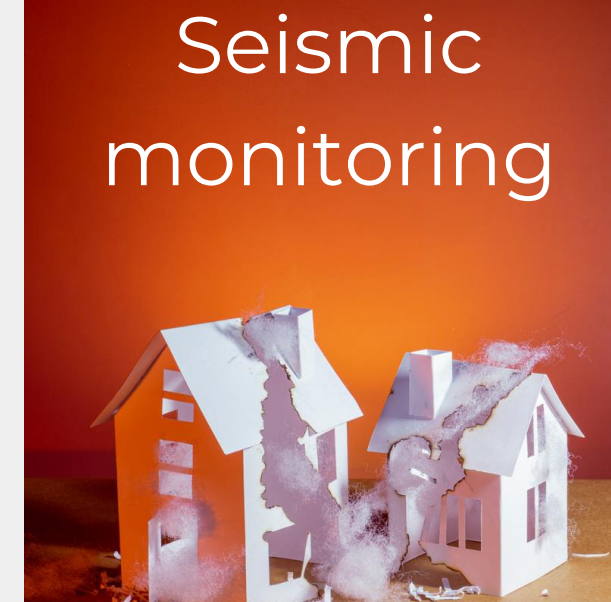
Biosafety



Nuclear safety



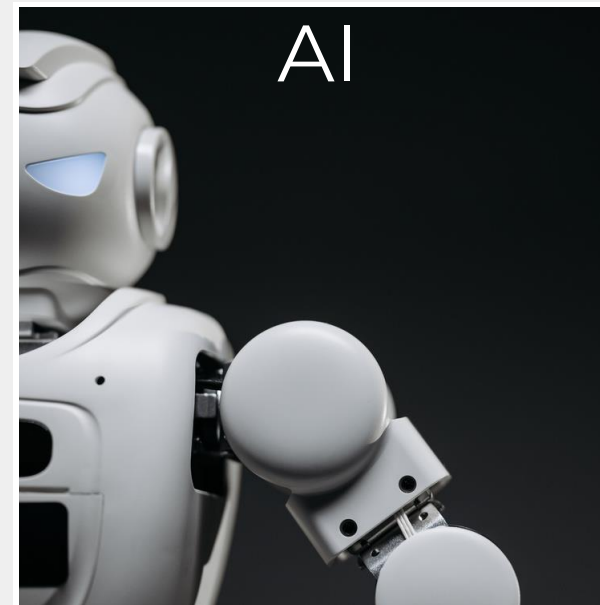
Seismic monitoring



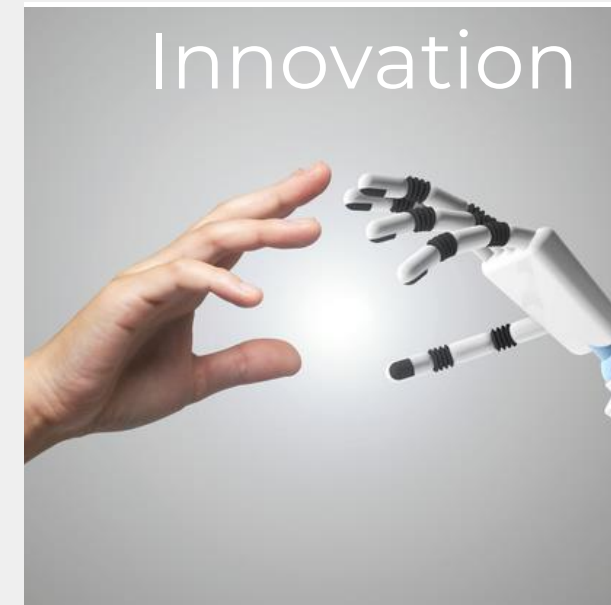
Health threats



AI

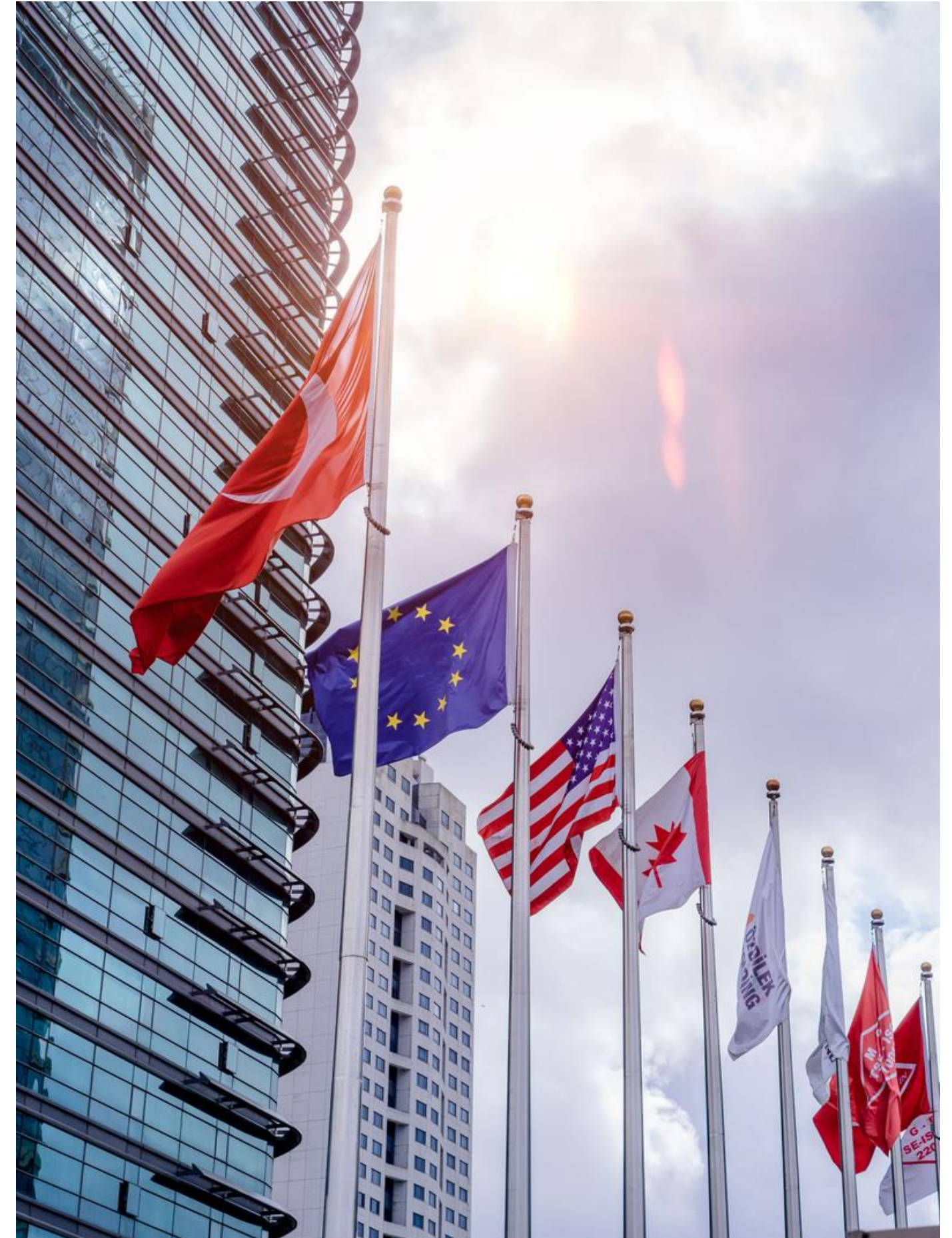


Innovation



Science Diplomacy

- R&I drive sustainable solutions to global challenges and bolster preparedness/resilience.
- Triple planetary crisis (climate, biodiversity, pollution) demands cross-sector mobilization.
- Emerging tech + militarization of global commons reshape diplomacy (AI, cyber, drones).
- Science diplomacy builds cross-border partnerships, public trust, and stability.





IS 1C & Kazakhstan: Ongoing Collaboration

Nuclear safety & non-proliferation

Projects with Institute of Nuclear Physics and National Nuclear Center

Biosafety & health security

RIBSP and Ministry of Health capacity-building and training

Seismic & environmental monitoring

National Scientific Center for Seismological Observations and Research; water/land resources

Data, Cyber & AI readiness

Growing portfolio on cybersecurity and AI for safe, trusted science

Partnership with Nazarbayev University

- ISTC and NU:
Memorandum of
Understanding to deepen
collaboration
- Joint priorities: AI safety for
life sciences; technology
transfer; researcher
mobility
- Next steps: pilot labs and
training, shared grant
pipelines, industry
co-funding



MINISTRY OF SCIENCE AND HIGHER EDUCATION'S REFORMS



Higher Education

Strategic partnerships with leading global universities; selective approach to branch campuses focused on quality

Artificial intelligence

Integration of AI skills across university curricula; 30+ HEIs launching AI programs
Human-capital focus: teacher upskilling, ICT academies, and digital infrastructure to scale AI literacy



Where ISTC Can Help Next

- AI for Science & Safety
- AI literacy & ethics for researchers; secure AI for biosafety and health emergencies
- CBRN Risk Mitigation
- Regional training, joint exercises, and infrastructure upgrades
- Commercialization Pathways
- Horizon Europe alignment, industry co-funding, and IP/TT support
- Talent & Mobility
- Exchange schemes linking Kazakh labs with global partners



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