

# **Nuclear Energy and the Development of the Nonproliferation Culture: Covering New Regions**

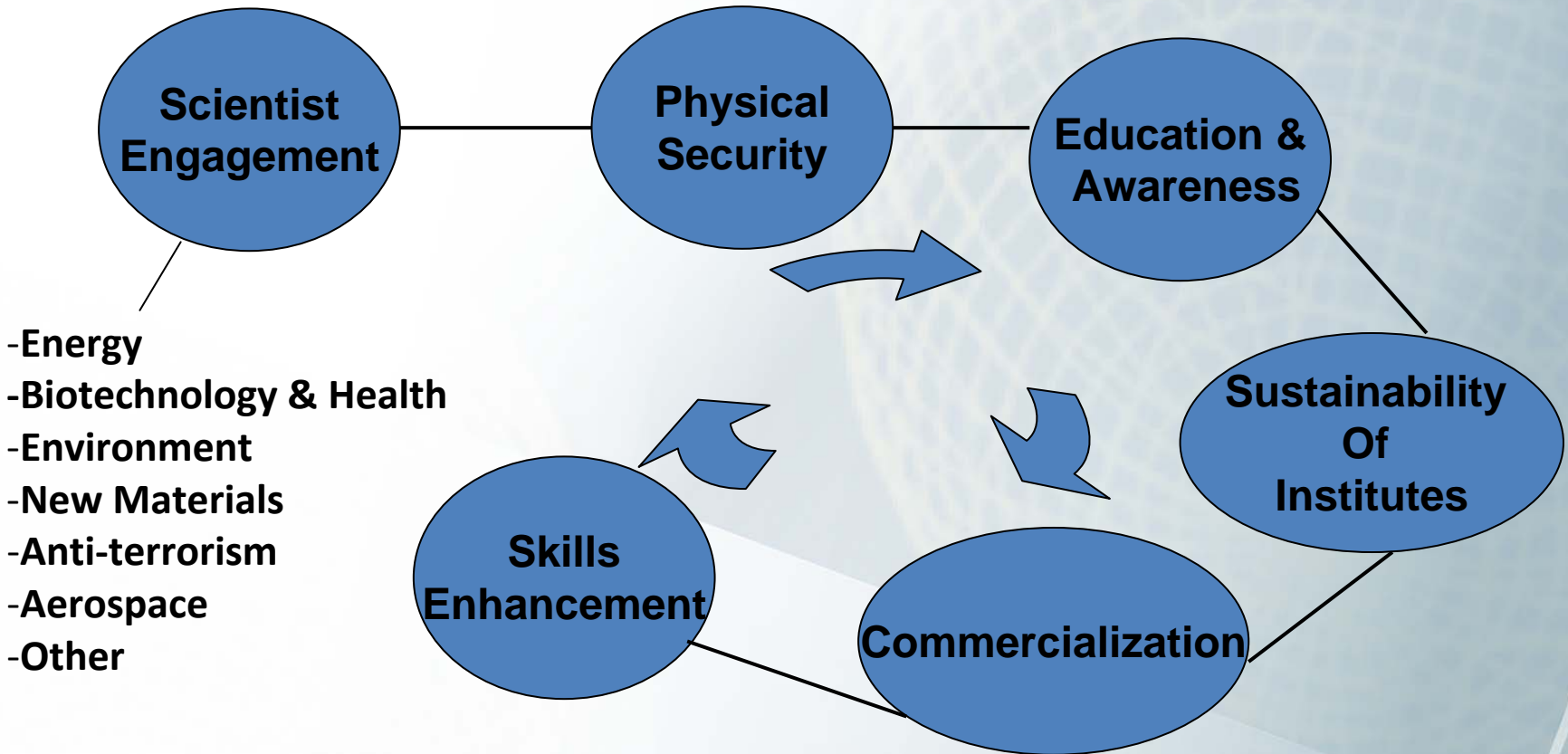
**PIR Conference  
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**ISTC - Moscow**



# Activities of ISTC



# Challenge



“To readjust existing delivery mechanisms for cooperation initiatives to identify proper responses to today’s challenges in the field of non-proliferation”.



# G8: Nuclear and radiological security



## Nuclear Materials Detector



Development of a portable, low cost, rapid response device for detecting radioactive sources



# G8: Nuclear and radiological security



New generation of advanced individual radiation detectors:



# G8: Nuclear and radiological security



## Dismantling of nuclear submarines



# G8: Biosecurity



## Disease Surveillance – Central Asia Biosafety & Biosecurity



Training Center, Almaty



Field Plague lab, Tajikistan

- Avian Influenza, FMD, Brucellosis, Rabies, Anthrax, Arbovirus in Kyrgyzstan
- Regional laboratory and biosafety training in Almaty
- Arbovirus, Brucellosis, Malaria, Plague, Hepatitis, Anthrax in Tajikistan
- Creation of a Regional Biosafety Association



Cow with FMD, Kyrgyzstan



Security system at anthrax cattle grave, Kyrgyzstan



# G8: Biosecurity



## Security System and Physical Upgrades to Protect Biological Materials



**Greenhouse before ISTC project**



**Greenhouse at completion of ISTC project**





# G8: Scientists engagement



## ISTC Activities on Physical Protection



**Upgrade of Nuclear Material Protection and Control Systems at the Joint Institute of Energy and Nuclear Research in Belarus**

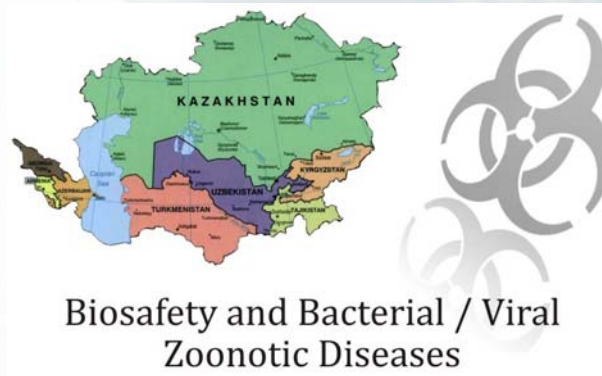
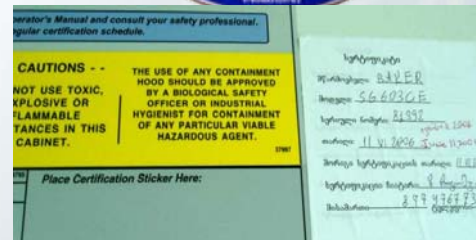


# G8: Scientists engagement

## ISTC Biosafety Activities



- Training workshops
- Biosafety Associations
  - BACAC, RBA
- Biosafety Cabinet Certification
  - Training and equipment
- Translations
  - e.g. various guidelines



# G8: Scientists engagement



## Training of Khlopin Institute Staff to GMP Standards + Upgrade of Isotope Facility



## Diplomas from Russian Ministry of Health to Khlopin Institute Staff



# Instrument for Pursuing Policy



**ISTC is ready and able to immediately contribute to new non-proliferation and scientific challenges (globalization; non state actors; diffuse character).**

**ISTC is in a position to rapidly support activities for:**

- **US-RF Bilateral Commission**
- **G8 Global Partnership**
- **Washington Security Summit – Workplan**
- **Non Proliferation / Chemical Weapons/**
- **Bio Weapons Conventions (IAEA/OPWC/WHO)**



**ISTC:**

**Towards a Center of Excellence  
for scientific and technological support  
for CBRN mitigation**

