IAEA Capacity Building for Mercury Analysis

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Facts and Figures

- **170 Member States** (as of 30\textsuperscript{th} April 2018)
- **2,500+ staff** from over 100 countries
- **HQ in Vienna**
- **Laboratories** in Seibersdorf, Monaco and Vienna.
- **Regional offices** in Toronto and Tokyo.
- **Liaison offices** in New York and Geneva
Organization

- Director General
- Director General's Office for Coordination
- Secretariat of the Policy-Making Organs
- Offices of Legal Affairs; Public Information and Communication; and Internal Oversight Services, and
- 6 Departments:
  - Nuclear Energy
  - Nuclear Sciences and Applications
  - Nuclear Safety and Security
  - Safeguards
  - Technical Cooperation
  - Management
The Technical Cooperation Programme

- Main mechanism for IAEA to deliver services directly to its Member States
- Support Member States to build capacities in safe and peaceful use of nuclear technology for sustainable socioeconomic development
Technical Cooperation: A shared responsibility

All Member States

IAEA Secretariat

Technical Cooperation Programme
What services does the TC Programme provide?

- Training fellowships & scientific visits
- Equipment & materials
- Training courses & workshops
- Capacity building
- Networking
- Knowledge sharing
- Partnership building

TC Programme aims to support sustainable socioeconomic development in Member States.

- Technical Cooperation (TC) Projects

Expert assistance

Conferences, symposia & seminars
TC Programme Stakeholders

Policy Making Organs

Member State
- NLO
- Counterpart

Secretariat
- PMO
- TO

Regional Agreements

Permanent Missions

Beneficiaries and end users

Ministries
- Nuclear authority
- National institutions

Partner institutions in other Member States

Donors and international financial institutions

WHO, FAO, UNDP, other multilateral organizations

Beneficiaries

Member State

NLO

Counterpart

Secretariat

PMO

TO

Regional Agreements

Permanent Missions
TC programme topic areas

- Water & Environment
- Radiation Technology
- Energy
- Safety
- Health & Nutrition
- Knowledge Management
- Food & Agriculture
TC project types

**National**
- Infrastructure building
- Address country’s specific needs
- About 60-65% of the programme

**Regional**
- Networking and experience sharing
- Address issues of common interest and issues of regional dimension

**Interregional**
- Networking and experience sharing
- Address issues of common interest to the four regions
IAEA membership and the TC programme

- **Department of Technical Cooperation**
  - ~225 staff
  - 6 Divisions
  - No field presence

- **IAEA Member States**
  - 170

- **Countries/territories receiving support**
  - 144

- **Around 650 new TC projects every biennium**

- **35 LDC* recipient countries in 2017**

- **80% of TC participants are non-nuclear power states**

* LDC – least developed countries
TC Programme disbursements in 2017

RESOURCES

- About € 83 million/year from TC Fund
- About € 21.7 million (2017) from extrabudgetary contributions
TC project types

**National**
Infrastructure building
Address country’s specific needs
About 60-65% of the programme

**Regional**
Networking and experience sharing
Address issues of common interest and issues of regional dimension

**Interregional**
Networking and experience sharing
Address issues of common interest to the four regions
Example: TC in Africa

- 45 Members States
- 26 LDCs
- 403 active national TC projects
- 67 active regional TC projects
Africa in 2017

- 808 Expert and Lecturer recruitments
- 1,412 participants to meetings
- 671 Fellows and Scientific Visitors
- 50 Regional Training Courses
- 1,139 participants to Training Courses
FOCUS:

Regional TC projects in Africa Capacity building for Mercury Analysis

2012 - now:
• RAF7009 2012 Supporting an Integrated Approach for Marine Pollution Monitoring Using Nuclear Analytical Techniques
• RAF7015 Strengthening Regional Capacities for Marine Risk Assessment Using Nuclear and Related Techniques

Countries:
Benin, Cote d’Ivoire, Cameroon, Nigeria, Ghana, Egypt, Kenya, Algeria, Morocco, Tunisia, Mauritania, Senegal, Tanzania, Namibia, Djibouti, Mauritius, Madagascar, South Africa, Congo Brazza, Gabon.
FOCUS:

Regional TC projects in Africa Capacity building for Mercury Analysis

Contamination focus: metals (including Hg) and radionuclides.
In the last 5 years
2 Regional Hg training course
18 mercury analyser purchased
   (2 more expected)
3 Fellowships
Environment Laboratories: Organizational Tree
We conduct need-based research....
e.g., through Peaceful Use Initiative (PUI) Seafood safety:

Developing tools for improved monitoring and assessment of regulated and emerging contaminants and biotoxins.

PROJECT ACTIVITIES:
Nuclear analytical method development for harmful contaminants. Focus on harmful algal bloom biotoxins, mercury and methyl-mercury, and fluorinated and brominated persistent organic pollutants.
We produce reference materials

We conduct proficiency tests
...and we train scientists

...in our laboratories and collaboration centers worldwide
Thank you!