

The IAEA's Technical Cooperation Programme: Delivering Results for Peace and Development

URAM-2009

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*Atoms for Peace: The First Half Century
1957-2007*

TC strategic direction is driven by

- IAEA Statute (1956)
- TC Strategy (est. 1997, rev. 2002)
- Agency's Medium Term Strategy (2006 - 2011)

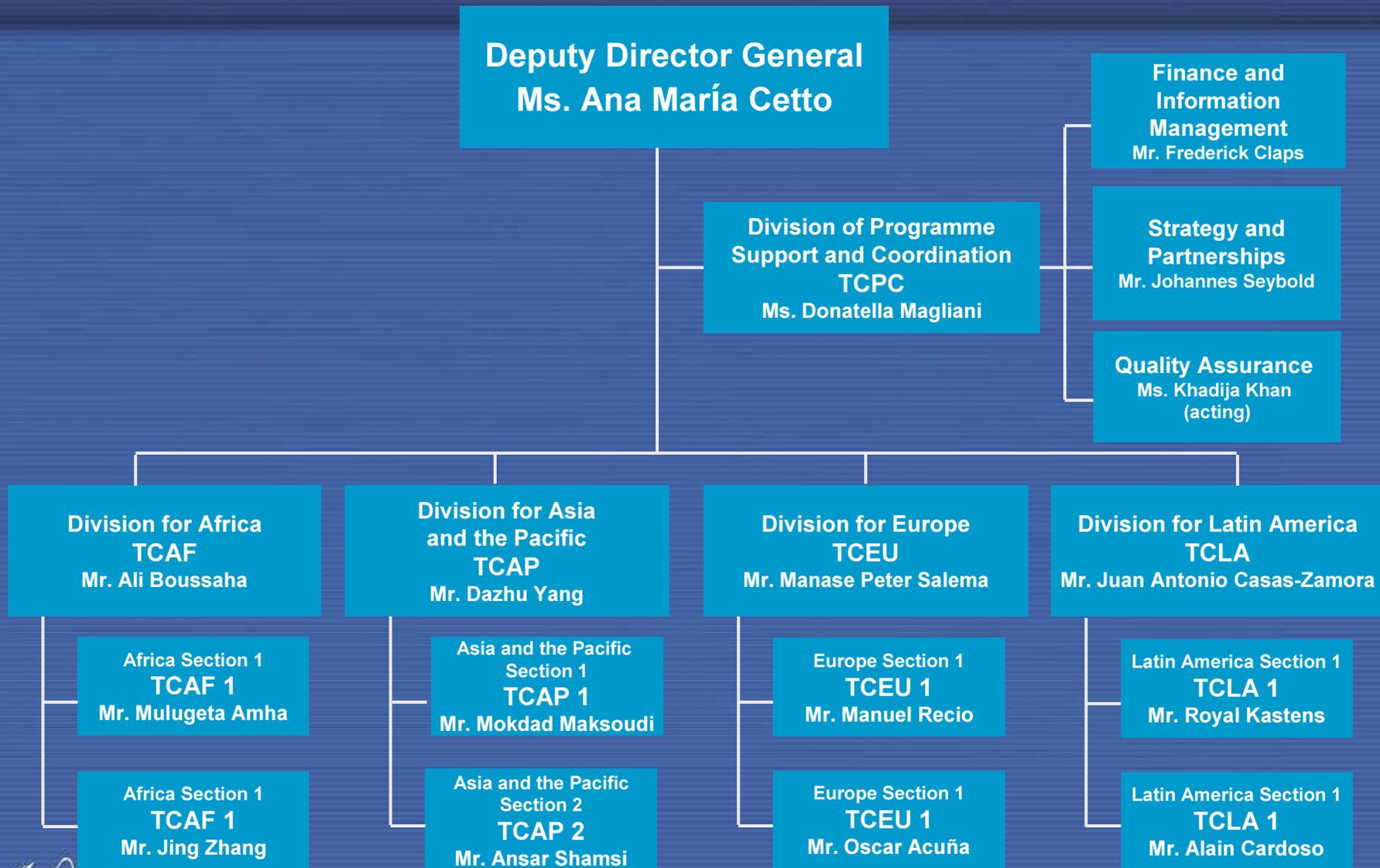
IAEA Statute, Article II

- “The Agency shall seek to accelerate and enlarge the contribution of atomic energy to peace, health and prosperity throughout the world. It shall ensure, so far as it is able, that assistance provided by it or at its request or under its supervision or control is not used in such a way as to further any military purpose.”

TC Strategic Goal

“To increasingly **promote tangible socio-economic impact** by contributing directly in a cost-effective manner to the achievement of the major sustainable development priorities of each country.”

Department of Technical Cooperation



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The technical cooperation programme: a shared responsibility

Technical
Departments
*Scientific and
technological
support*

Member States
*Full range of
responsibilities including
priority setting*

Department of
Technical Cooperation
*Overall management and
coordination*



Technical Cooperation Programme



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TC Programme - Quick Facts

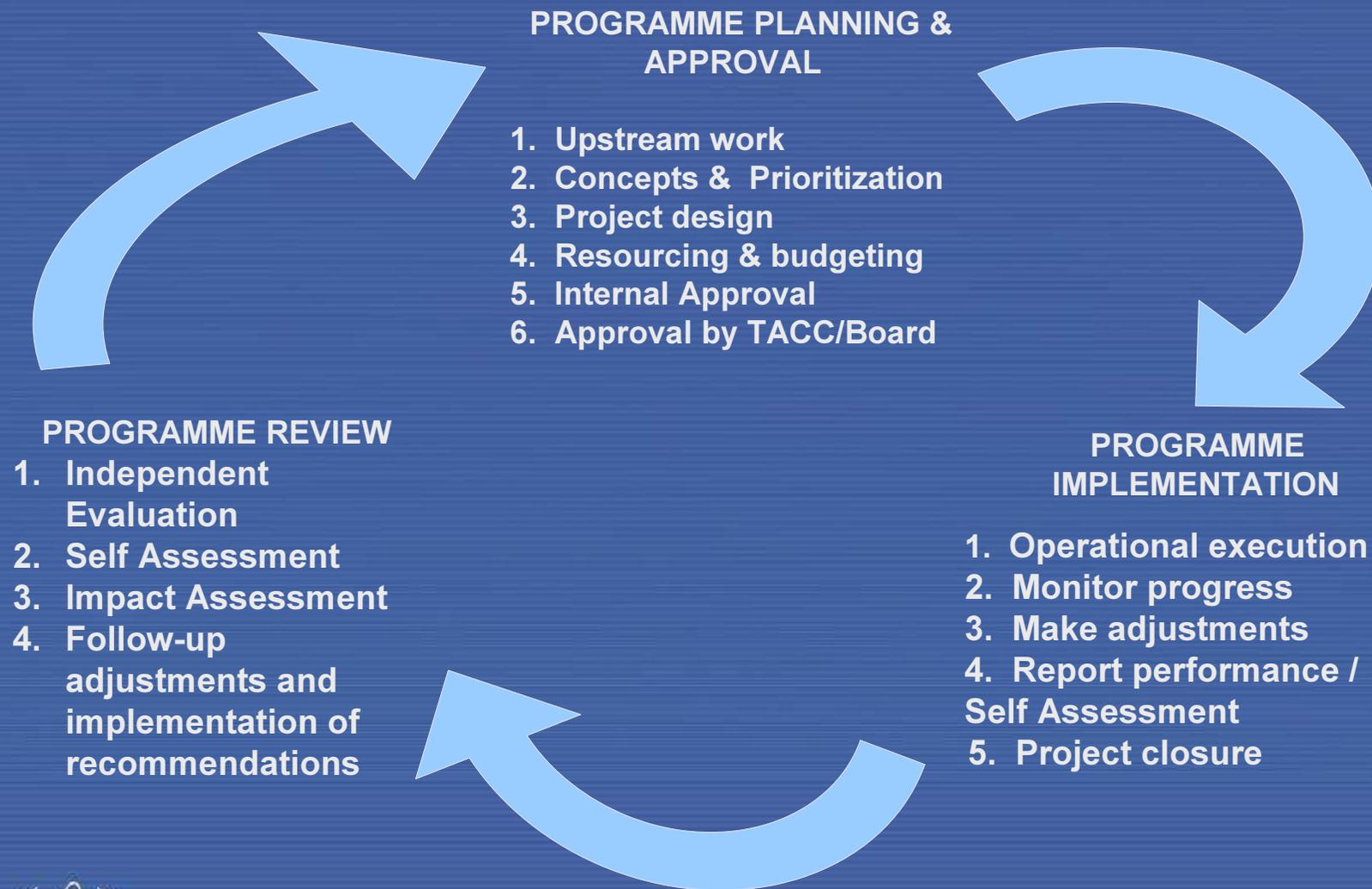
- Recipients: all IAEA Member States are eligible for TC assistance
- National, regional and interregional projects
- 80% of recipients are non-nuclear power countries
- 26 recipient countries are Least Developed Countries (LDCs)

Trends in TC Programming

- Projects increasingly seen in a larger, results-oriented context, rather than in isolation from each other.
- Increasing regional emphasis - “fewer but better”
- Focus on Technical Cooperation among Developing Countries (TCDC)
- Growing emphasis on Least Developed Countries (LDCs)
- Partnerships increasingly important
- Linked to the Millennium Development Goals.

TC Programme Cycle Management

on the basis of the TC STRATEGY:
CPF, Thematic Planning and Strategic Partnership

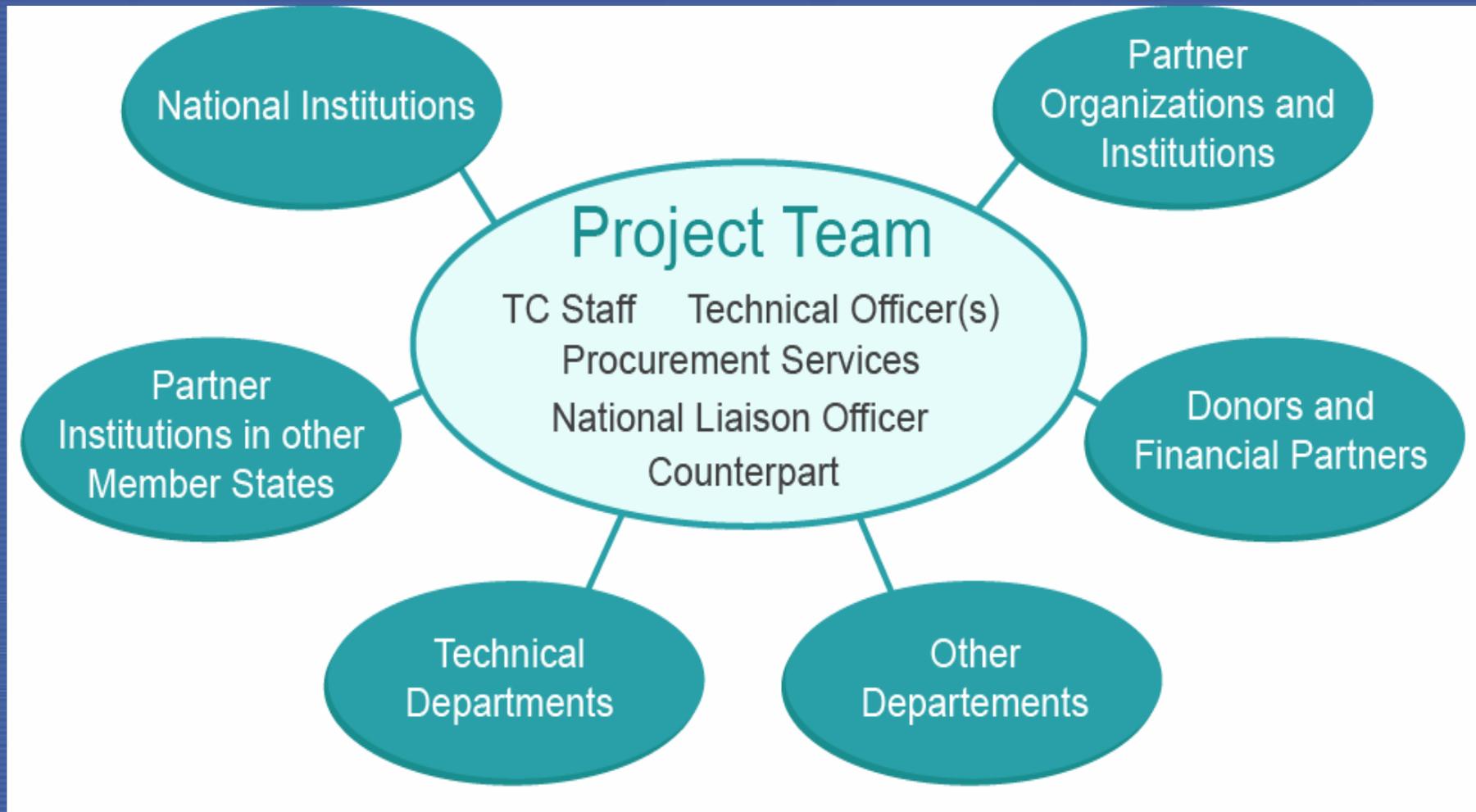


TC project cycle

- National Projects
- Regional Projects
- Interregional Projects



TC Project Stakeholders



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Technical Cooperation in 2008

- \$96.4 million disbursed
- Support provided to 122 countries and territories
- 3240 expert and lecturer assignments
- 3676 meeting participants
- 2744 training course participants
- 1621 fellows and scientific visitors

TC services: Experts and Meetings

International Expert (Non-staff Members)

- Expert provides advice, on-the-job training or analysis and makes recommendations towards achieving the TC project objective

Meeting Participant

- Exchanges experience or discusses technical/managerial aspects of a TC project/programmes

Staff Member

- Provides technical expertise

TC services: Fellows/Scientific Visitors

Fellowships:

- TC project-related practical / on-the-job training of candidates (usually from 1 to 12 months at a single institute)
- for long-term academic training leading towards a degree (Masters or Ph.D.) – “Sandwich” Programme

Scientific Visits:

- TC project-related training of candidates who hold an appropriate advisory or management position (up to 2 weeks in a maximum of 2 countries)

TC services: Training Courses

- Training event provided by the Agency, in cooperation with Member States, where lecturers teach participants, providing additional knowledge or skills in a particular field.
- Provided at national, regional, interregional levels

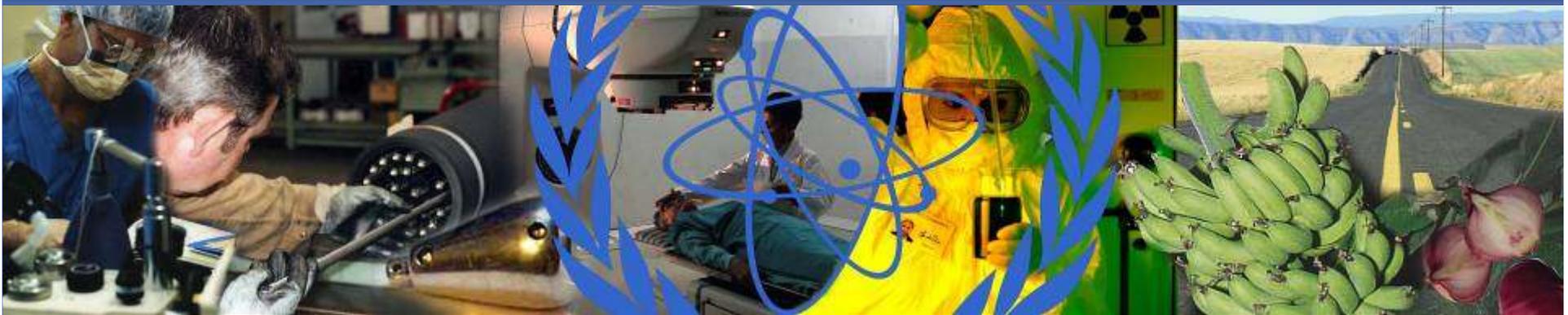
Nuclear technology: a strategic approach

- What's the nuclear technology involved?
- Is it cost-effective?
- Is there a better non-nuclear alternative?

Nuclear technology should either be a better alternative or be complementary

Technical Cooperation: areas of contribution

- Supporting Agriculture and Rural Development
- Advancing Water Resource Management
- Improving Human Health
- Addressing Environmental Challenges
- Promoting Sustainable Energy Development



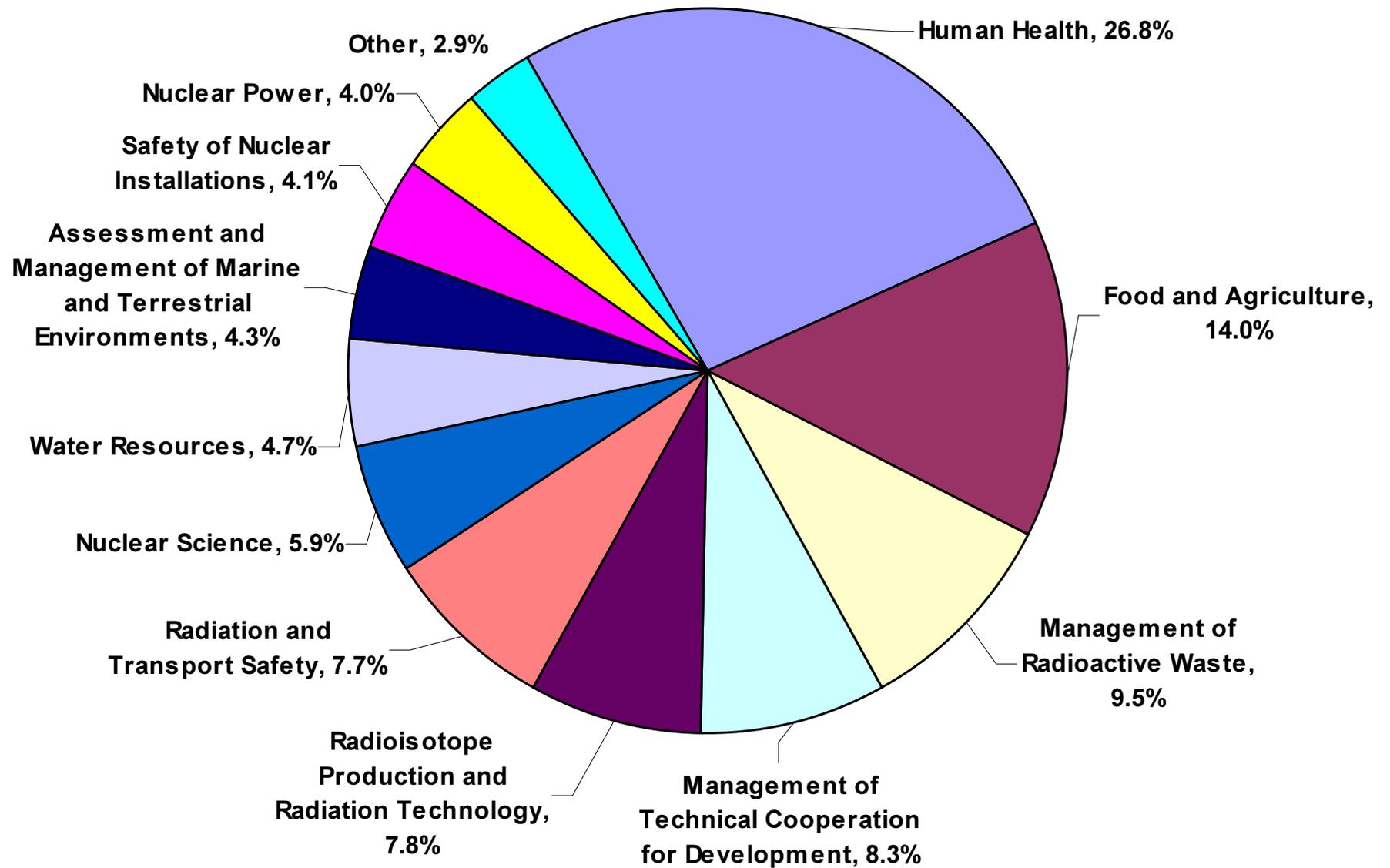
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Major Thematic Areas

Disbursements by Agency Programme 2008



Improving Human Health

- Control of communicable diseases, including HIV/AIDS and detection of drug-resistant strains of Malaria and Tuberculosis
- Advance cancer therapy
- Expand technical capabilities in nuclear medicine diagnosis
- Improve nutritional status of children and women
- Assess nutrition intervention programmes related to HIV/AIDS



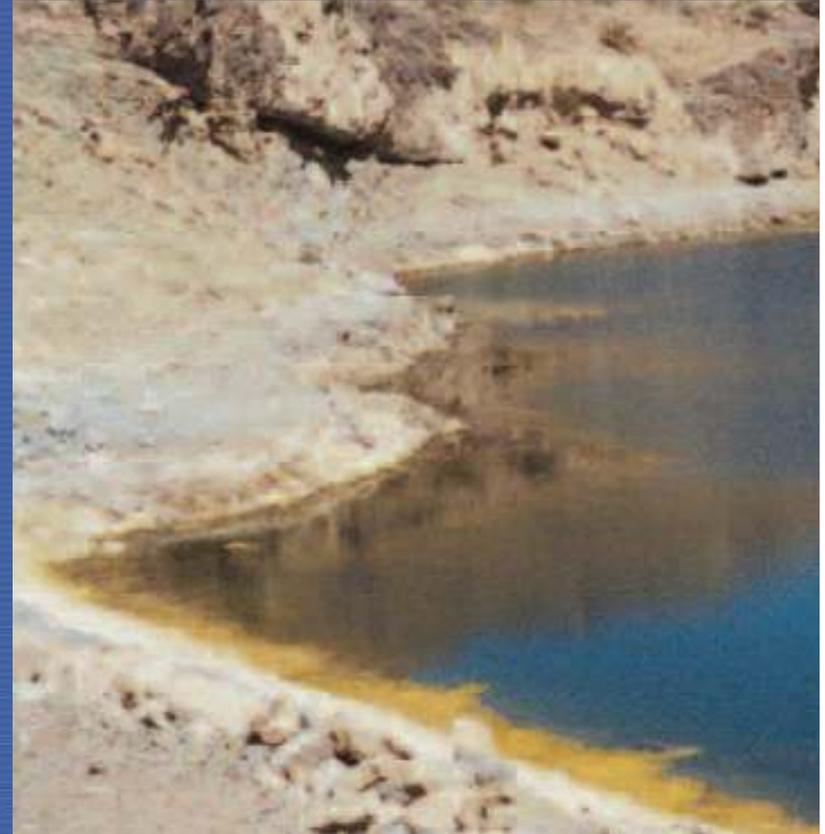
Supporting Agriculture and Rural Development

- Establish tsetse-free zones
- Improve crop productivity
- Combat agricultural pests
- Improve animal health
- Promote livestock production



Advancing Water Resource Management

- Map groundwater resources in Africa (Hydrology Atlas)
- Develop integrated management schemes for water resources
- Study vulnerability to pollution
- Investigate sea water intrusion
- Strengthen capabilities for hydro geochemical mapping
- Investigate dam and reservoir leakages and safety



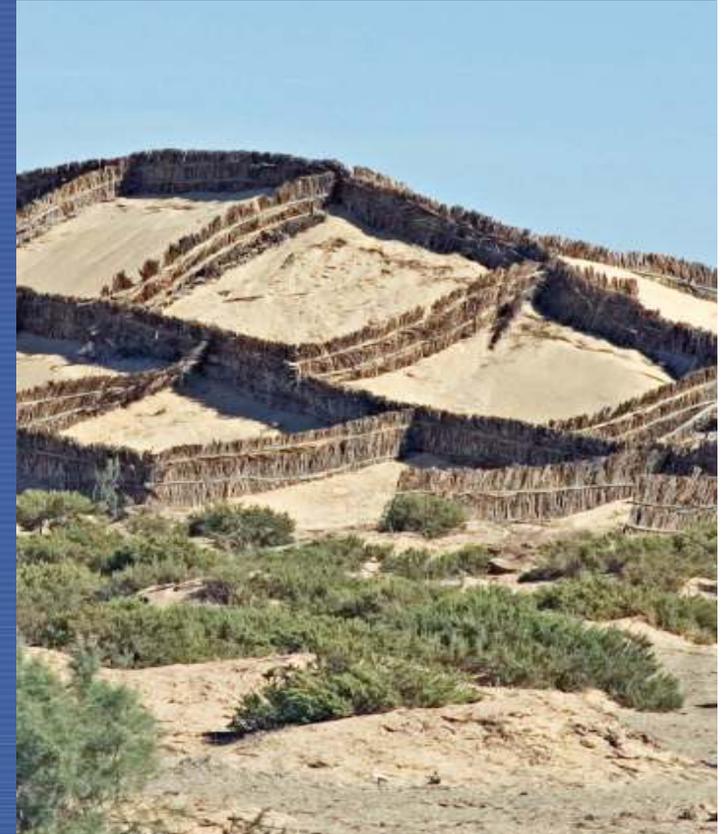
Promoting Sustainable Energy Development

- Build capacities to manage the development of the energy sector
- Transfer IAEA tools for energy demand forecasting, integrated energy planning, and least-cost electricity system expansion planning
- Train national energy system specialists to independently conduct country studies



Addressing Environmental Challenges

- Improve soil conservation and efficient land and water management
- Combat desertification
- Analyse status of land and water degradation
- Detect and study groundwater and air pollution
- Manage and remediate contaminated zones
- Improve coastal zone management



Supporting Safety

- Upgrade nuclear infrastructure
- Prepare for and respond to emergencies
- Strengthen nuclear safety and radiation regulation
- Capacity-building in:
 - Legislative frameworks, regulatory infrastructure, operational safety, safety assessment, infrastructure preparation, human resource development, management systems, plant life management, radiation protection, waste management, emergency preparedness and response.



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Uranium projects



Uranium projects (active)

- ALG3006** Supporting Uranium Ore Processing and Purification of Concentrates
- ARG3012** Geology Favourability, Production Feasibility and Environmental Impact Assessment of Uranium Deposits to be Exploited using In Situ Leaching Technology
- ARG3014** Assessing the Geology Favourability, Production Feasibility and Environmental Impact of the Exploitation of Uranium Deposits Using In Situ Leaching Technology (Phase II)
- BRA3013** Providing Practical Guidance for the Implementation of a Decommissioning and Remediation Plan for the Minas Gerais Uranium Mining and Milling Production Centre
- CPR3007** Exploration Techniques and Prospecting for Sandstone Type Uranium Deposit in Ordos Basin
- CPR3009** Study of the Key Problems in Prospecting for Sandstone-Type Uranium Deposits and their Amenability to In-Situ Leach (ISL) Mining in the Basins in Northern China
- EGY3018** Airborne and Ground Gamma-Ray Spectrometry for Radio-element Mapping for Environmental Purposes and for Exploration of Uranium Resources
- EGY3019** Evaluating Selected Uranium Resources and Producing and Purifying Yellow Cake
- JOR3005** Launching Uranium Exploration
- JOR3006** Assessing a Uranium Extraction Technique

Uranium projects (active)

- MOZ3002** **Establishing National Capabilities for the Management and Regulation of Mining Activities for Radioactive Minerals**
- PAK3010** **Investigation of Uranium Sources in Sedimentary, Igneous, and Metamorphic Environments**
- RAF3007** **Strengthening Regional Capabilities for Uranium Mining, Milling and Regulation of Related Activities**
- RER3010** **Supporting Preparation for Remediation of Uranium Products Legacy Sites**
- RER9086** **Safe Management of Residues from Former Mining and Milling Activities in Central Asia**
- RLA3006** **Regional Upgrading of Uranium Exploration, Exploitation and Yellowcake Production Techniques taking Environmental Problems into Account**
- RLA3010** **Regional Upgrading of Uranium Exploration, Exploitation and Yellowcake Production Techniques Taking Environmental Problems into Account**
- TAD9002** **Application of International Safety Standards on the Management of Uranium Milling Residues**
- TAD9003** **Establishing a Radiation Monitoring System at Uranium Tailing Sites in Northern Tajikistan**
- VEN3007** **Estimating Available Uranium Resources**

General information on TC ...

TC Website

- Open to the public at large
- News and highlights
- Summary project information
- Application forms in MS Word & PDF
- Publications
- <http://tc.iaea.org>

Information on TC at the country level

TC Country Profile

- at the Country level, online and up-to-date combined information (general, financial, statistical and links) about the technical cooperation programme and activities.
- restricted access; users can only see information on their country
- <http://tccountryprofile.iaea.org>

New: List of Resource Institutions by location and by field of activity and Resource Institutions Search

TC information at the project level

TC PRIDE

- TC Project Information Dissemination Environment – Restricted access.
- Read-only application to support current information requirements of approved project implementation action
- Real-time presentation of all data including financial information
- <http://tcpride.iaea.org>

TC programming, monitoring and reporting

PCMF

- Programme Cycle Management Framework
- IT system to develop and manage TC projects from project concept submission through project design, approval, implementation, monitoring, reporting and review. It provides all stakeholders with access to their projects and facilitates interaction between members of the project team.
- Restricted access (same login and password as for TC PRIDE); users can only see information on their projects.
- <http://pcmf.iaea.org>



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Public information on the TC Programme

- Official documents
 - TACC/BoG documents
 - Agency's Proposed TC Programme
 - Project Listings
- Publications
 - Annual TC Report, TC chapter in IAEA Annual Report
 - Project profiles
 - Fact sheets, brochures, other TC publications

....no sustainable human development is possible without security, and no lasting security is achievable without development...

(20/20 study)

Thank you!

Division of Programme Support and Coordination
Department of Technical Cooperation
International Atomic Energy Agency

tc.iaea.org