



IAEA

International Atomic Energy Agency

Atoms for Peace and Development

IAEA Peaceful Uses Initiative

Informal Technical Briefing

19 April 2018

PUI overview

- Instrumental in mobilizing additional extra-budgetary contributions for IAEA activities in peaceful applications of nuclear technology
- Used to support a wide variety of IAEA activities and to respond to evolving priorities of Member States and unforeseen emergency events, in a flexible and rapid manner
- Member States continue to support the PUI (IAEA GC resolutions)

PUI financial overview

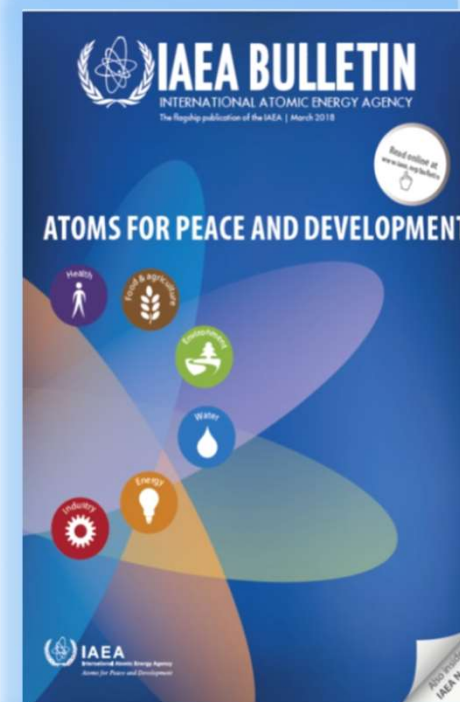
- PUI is not a special fund, nor parallel mechanism to TCF
- Extrabudgetary contributions, including PUI, support unfunded Regular Budget activities or TC footnote-a/ projects/activities
- PUI revenue allocated to specific projects/activities: recorded as part of Extrabudgetary contributions (EB-RB and EB-TC) and included in the Agency's Financial Statements, Annex A2
- PUI contributions which are not immediately recognized as revenue: recorded as deferred revenue, and included in the Agency's Financial Statements, Annex A4

Progress since the last briefing (1/3)

- **2** additional Member States (and **1** corporation) contributed to the PUI, increasing the total to **24** Member States & EC:
 - Australia, **Belgium**, Canada, Czech Republic, France, Germany, Hungary, Indonesia, Ireland, Israel, Japan, Kazakhstan, Kuwait, Malaysia, Monaco, New Zealand, Norway, Republic of Korea, Sweden, Switzerland, **Thailand**, Turkey, United Kingdom and United States of America.
 - European Commission
 - **Shimadzu Corporation**
- An additional amount of **€ 15M** was received, totalling the PUI contributions to **€ 121M**

Progress since the last briefing (2/3)

- Increased visibility through the preparation and distribution of promotional material and up-to-date PUI website
 - IAEA Bulletin 1/2018: Atoms for Peace and Development
- Side event during the first session of the Preparatory Committee for the 2020 NPT Review Conference (Vienna, May 2017)
- OIOS audit of the PUI - completed



Progress since the last briefing (3/3)

- Memorandum of Cooperation with the Shimadzu Corporation for the donation of a High-Speed Liquid Chromatograph Mass Spectrometer, through the PUI, for activities to better support Member States in the area of research on food safety and training.

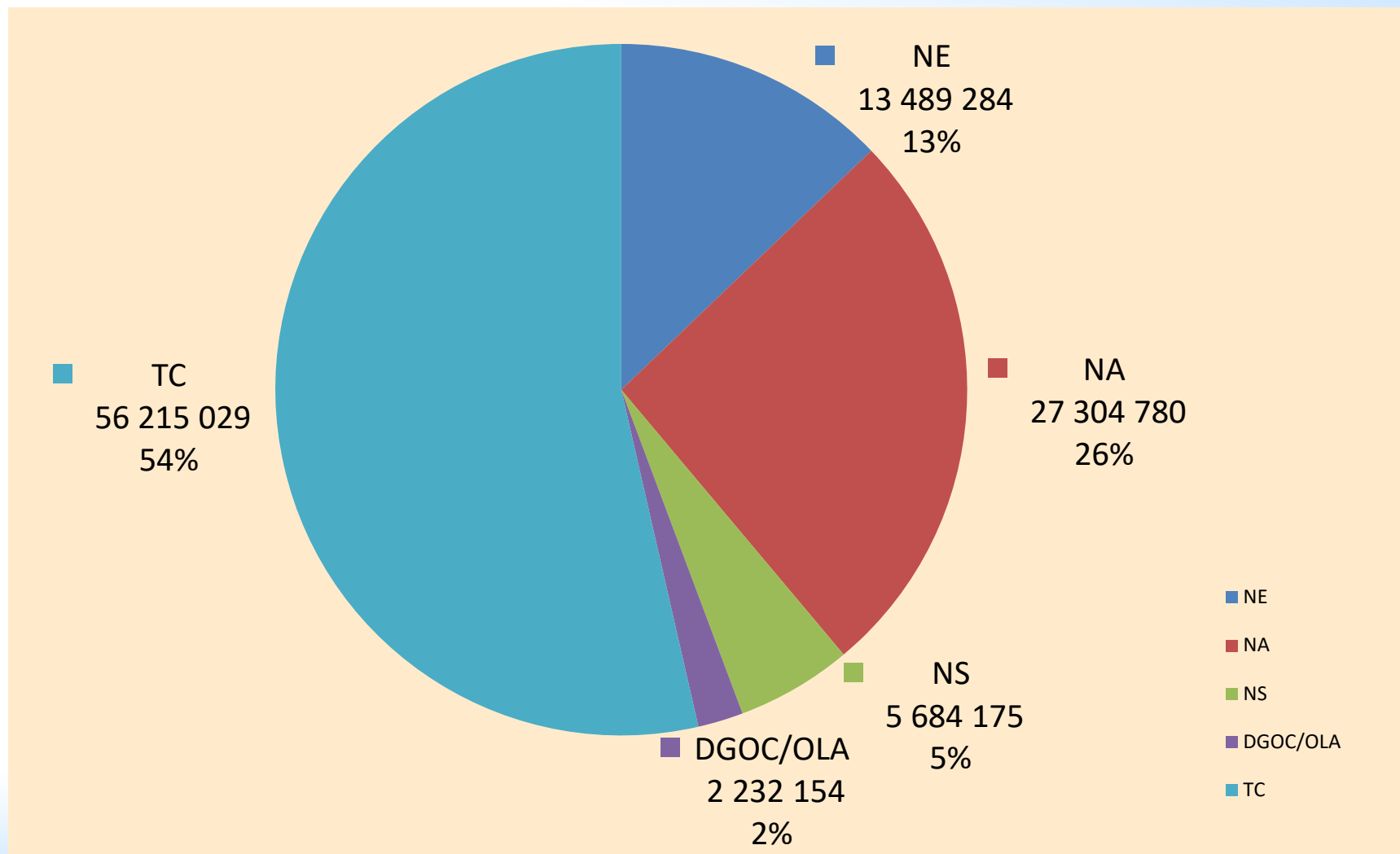


Benefit of PUI: Support more projects

- The PUI has supported 265 projects:
 - 150 projects have been completed
 - 115 projects are ongoing
- The PUI contributions benefit more than 150 Member States

PUI Allocation Breakdown: Departments

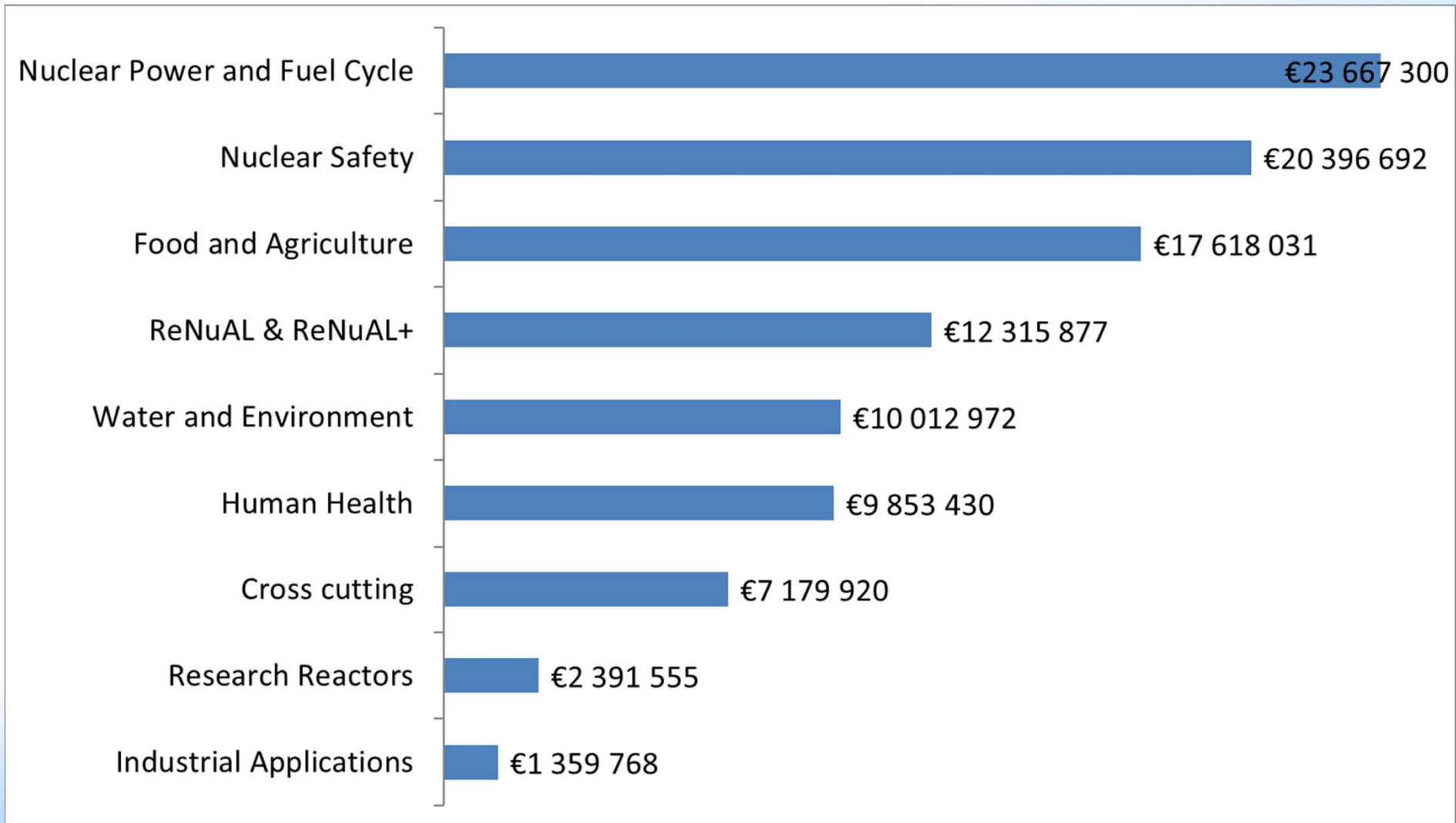
Total: €104 925 424 (as of 31 December 2017)



PUI Allocation Breakdown: Thematic areas



Total: €104 925 424 (as of 31 December 2017)



ReNuAL/ ReNuAL+

Example: Modernizing the NA laboratories in Seibersdorf

Objective of project: Better support Member States through lab services and training in the areas of food & agriculture, human health, the environment and the development and use of nuclear scientific instruments

Timeline: 2014 – 2021

Estimated Budget: ReNuAL: € 31M
ReNuAL+: € 26M

PUI funding received:
ReNuAL: € 9.1M
ReNuAL+: € 3.2M



ReNuAL/ReNuAL+



Achievements:

- Insect Pest Control Laboratory inaugurated (Sept 2017)
- New Donor Wall unveiled during 61st GC
- Two private sector partnerships concluded (Varian Medical Systems & Shimadzu Corporation)



Way Forward:

- Further mobilize approx. €10M
 - MS/traditional donors
 - Non-traditional donors and UN Global Marketplace for further private sector partnerships (<https://www.ungm.org/Public/Notice/69172>)

Food and Agriculture

Example: Tackling transboundary animal diseases

- Control and eradication of *Peste des Petits Ruminants* (PPR)

Objective of project: Address the gaps in the Global Control and Eradication Strategy for PPR by using its experience of working with PPR and other small ruminant diseases and its strong network of MS laboratories.

Timeline: 3 years

Estimated budget: € 1.6M

PUI funding received: None



Food and Agriculture

Way Forward:

- VETLAB network established with national veterinary laboratories in 44 African and 19 Asian countries
 - Enhanced national capacities for early detection and identification of diseases outbreaks
- Further strengthen the work of VETLAB network in the surveillance and early detection of PPR
- Support the Global Control and Eradication Strategy to eradicate PPR by 2030



Human Health

Example: INT6062: Strengthening Capacity for Cervical Cancer Control through Improvement of Diagnosis and Treatment

Objective of project: Contribute to the reduction of cervical cancer mortality through strengthening diagnosis and treatment components of cervical cancer control programmes.

Timeline: 2018-2021

Estimated budget: € 1M

PUI funding received: None



Human Health



Way Forward:

- Provide training in comprehensive management of cervical cancer
- Establish regional telemedicine networks of RT centres to support web-based educational activities.



Environment



Example: Marine Plastics: Tackling the Challenge Using Nuclear Applications

Objective of project: Develop and apply radio-labelling techniques to assess how marine microplastic particles and their associated adsorbed organic pollutants are bio-accumulated in marine organisms, and evaluate effects to organisms.

Timeline: 2016 - 2020

Estimated budget: € 310K

PUI funding received: € 140K

Further funding needs: € 170K



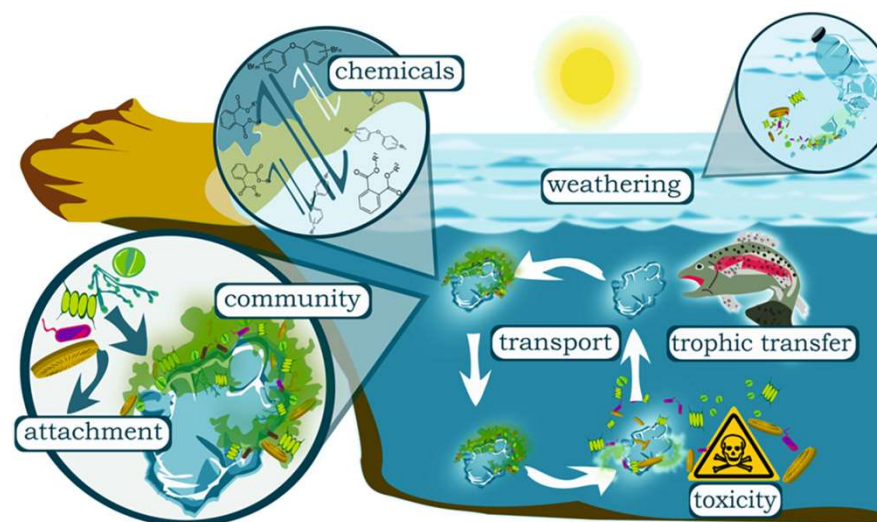
Environment

Achievements:

- The development of new radio-labelling methods initiated
- Experiments taking place in the Agency Labs in Monaco using radio-labelled and Persistent Organic Pollutants (POPs)

Way Forward:

- Experiments to assess ecosystem and seafood safety risk posed by microplastics
- Further promote the relevance of nuclear techniques to complement existing research on microplastics



Water Resources Management

Example: RAF7019: Adding the Groundwater Dimension to the Understanding and Management of Shared Water Resources in the Sahel Region

Objective of project: To enhance decision-making processes for the characterisation, management and monitoring of groundwater in support of SDG target 6.5: “By 2030, implement integrated water resources management at all levels, including through trans boundary cooperation as appropriate”

Timeline: 2018-2021

Estimated budget: € 1.1M

PUI funding received: None



Water Resources Management



Achievements [RAF7011]:

- Successful implementation of RAF7011
- Enhanced capacity of 13 MS for data sampling/ acquisition
- Strengthened capacity of national isotopic hydrology laboratories

Way Forward:

- Conduct sampling campaigns to fill knowledge gaps identified in RAF7011
- Support to establish isotope hydrology laboratories in selected countries
- IWAVE methodology to be piloted in five countries





Nuclear Energy

Example: Strengthening Nuclear Power Infrastructure Development (Phase 2)

Objectives of project: Ensure that comprehensive and tailored IAEA guidance is available to countries introducing nuclear power; Encourage sharing of lessons learned; Encourage MS to benefit from the Integrated Nuclear Infrastructure Review (INIR) programme.

Timeline: 2016-2020

Estimated budget: € 2.3M

PUI funding received: € 451K

Further funding needs: 1.8M

Nuclear Energy



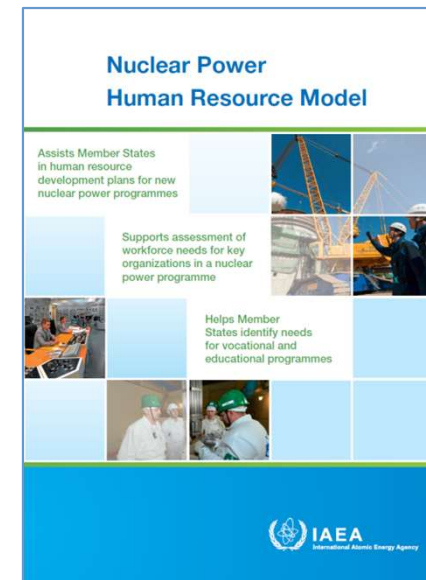
Achievements

- Enhanced the sharing of experience and transparency in the development of nuclear power infrastructure.
- Strengthened the Milestones Approach with new and updated guidance on the 19 infrastructure issues.
- Developed competencies in embarking countries (INIR Missions, NPHR workforce modelling, Interregional training)

→ *Nuclear Power Human Resources (NPHR) Modelling Tool (infrastructure issue 10)*

Way Forward

- Continue providing standardized activities to develop competencies in embarking MSs
- Train more experts on the use of NPHR modelling tool



Nuclear Safety



Example: INT9182: Sustaining Cradle-to-Grave Control of Radioactive Sources

Objective of project: Assist Member States to sustain control of radioactive sources from cradle to grave and enhance their capacities to manage these sources according to international safety standards and best practices.

Timeline: 2016-2020

Estimated budget: € 4.8M

PUI funding received: € 664K

Further funding needs: €500K



Nuclear Safety

Achievements:

- Assisted some countries to remove disused sources.
- Strengthened Member States capacity in different aspects of safety of radioactive sources.

Way Forward:

- Continue removal of disused sources.
- Continue to upgrade and enhance national capacities.



Upcoming PUI outreach opportunities



- NPT Preparatory Committee: April-May 2018, Geneva
- IAEA General Conference: September 2018, Vienna
- Ministerial Conference on Nuclear Science and Technology, November 2018, Vienna



IAEA

International Atomic Energy Agency
Atoms for Peace and Development

PUI website:

<https://www.iaea.org/about/pui>

PUI email: pui@iaea.org

Thank you!