



ICMGP 2024

CAPE TOWN • SOUTH AFRICA • 21 - 26 JULY

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IAEA
International Atomic Energy Agency

"Mercury in the Ocean": IAEA's Global
Network of Analytical Laboratories for
Mercury Data Collection



WWW.MERCURYCAPETOWN.COM

IAEA Environment Laboratories Monaco

- The only marine laboratory in the UN system
- Research
- Method development
- Training
- Producer of marine sample CRM's
- Organization of free of charge ILC/PT



Radiometric

Radioecology

MESL



The IAEA in brief, from 1957

- Known as the nuclear watchdog
- to limit nuclear proliferation and
- to ensure the safety of nuclear installations.
- *“The Agency shall seek to accelerate and enlarge the contribution of atomic energy to peace, health and prosperity throughout the world.” (Art. II, IAEA Statute)*



The IAEA's Technical Cooperation Programme

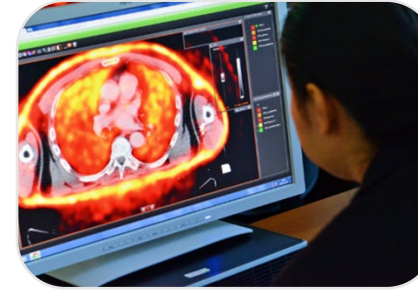
- Main vehicle for IAEA to deliver development support to its Member States
- Builds capacities in the safe and peaceful use of nuclear technology for sustainable socioeconomic development



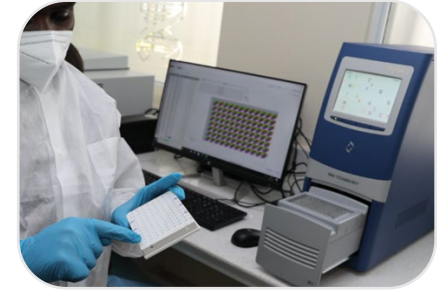
What services does the TC programme provide?



Expert missions



Fellowship training & scientific visits



Equipment & material



Conferences symposia & seminar



Training courses & workshops





Ocean Health



Traceability

Comparability

Data

Quality

Strategic Monitoring

- Better Understanding
- Evidence Based decision

Availability

Interpretation



Strengthening Ocean Health for Sustainable Development

Overall Objective

To conserve and sustainably use the oceans, seas and marine resources for sustainable development

4 years

Outcome

Increased scientific knowledge and develop monitoring and research capacity to improve ocean health and enhance sustainable development, using nuclear and isotopic techniques

Several components including Hg

Total ~5M euro
Hg 0.4 M euro



INT7002 – Criteria Hg Component



ANALYTICAL CAPABILITIES FOR
Hg IN MARINE SAMPLES



MONITORING ACTIVITIES
AND/OR RESEARCH PROGRAM



INFRASTRUCTURE AND
PERSONNEL

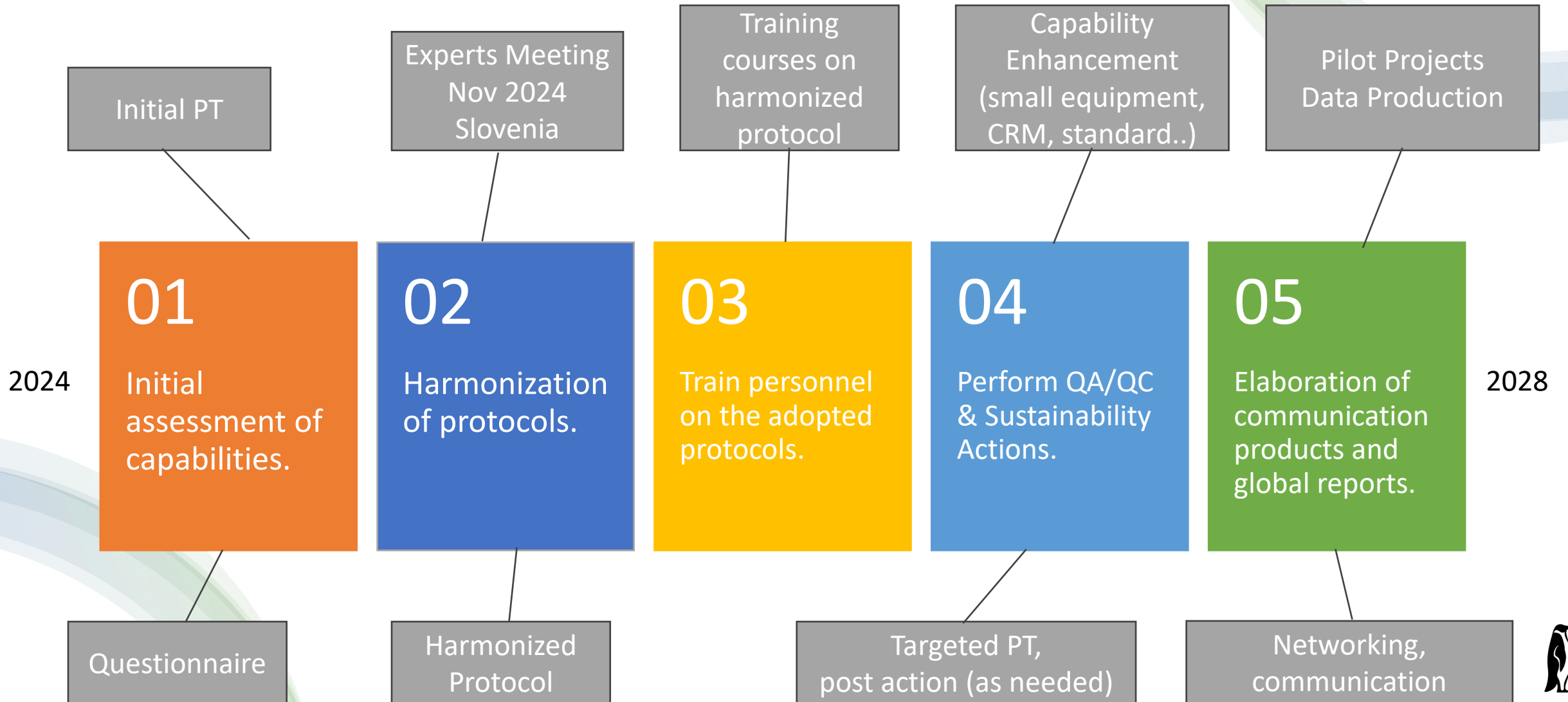
INT7002 – Participants for Hg component



30 countries



INT7002 – Implementation strategy



INT7002 – GAP ANALYSIS

*As identified by participants in
the kickoff Meeting June 2024*

Lack of MeHg
methodology

Low capacity and
training of personnel

Low integration and
collaboration between
institutions at national,
regional and global level

No participation in ILC's



Support to Member States for producing quality assured data

<https://analytical-reference-materials.iaea.org>

Name	Matrix	Minimum sample size Hg (g)
IAEA 158A	Marine sediment	-
IAEA 456	Marine sediment	0.05
IAEA 457	Marine sediment	0.2
IAEA 458	Marine sediment	TE, Hg
IAEA 475	Marine sediment	TE, Hg
IAEA 436A	Marine sediment	TE, Hg, MeHg
IAEA 452	Scallop	TE, Hg, MeHg
IAEA 461	Clams	TE, Hg, MeHg
IAEA 470	Oyster	TE, Hg, MeHg
IAEA 476	Fish	TE, Hg, MeHg

Missing Matrix ??
Let's Discuss !



INT7002 – Summary



Use of existing capacities for coastal marine monitoring of Hg.



Improvement of the quality, quantity and comparability of mercury data from marine environment produced around the world.



Integrated scientific research.



Creation of regional and global network of marine laboratories working on mercury.



Participation to the Minamata effectiveness evaluation.



Provide trustful data to stakeholder.





Thank you

