

Expert Consultation Meeting on Mercury Monitoring in Soil and biota

UN Environment, Chemicals and Health Branch

13-14 May 2019, Monaco



IAEA

International Atomic Energy Agency

POSSIBLE DISCUSSION POINTS

- a. Existing capacities / networks – gaps. What are the relevant policy questions?
- b. What are the main elements to consider in soil and biota as matrices to be considered in the effectiveness evaluation framework and monitoring under the Convention?
 - Relevance of the matrix
 - Mercury compounds to be monitored
 - Frequency of monitoring
 - What type of results can be expected
- c. Discussion on the comparability
- d. What we can achieve
- e. Advantages and disadvantages including resources and costs.

POSSIBLE TABLE OF CONTENT

1. Introduction
2. Review of existing information on human exposure to and environmental concentration of mercury
 - a) Global Review of Mercury Monitoring Networks
 - b) Analytical capacity worldwide
3. Elements to consider when designing a monitoring plan on presence of mercury in ambient air
4. Soil/Biota as a matrix to consider:
 - a) Importance and relevance of mercury presence in soil/biota
5. Existing gaps
6. Overview of issues that need consideration by the Conference of the Parties
7. Limitations of this report
8. Highlights and conclusions

Objectives

- Towards contributing further to facilitate the work of the Minamata Convention, the consultation is to assist compilation of Information :
 - on methods for the analysis of mercury in soil and biota
 - to contribute to the discussion on global monitoring of mercury in these two matrices
- Discuss possible additional areas for further contribution



GEF PROJECT ON MERCURY

Objectives

To harmonize approaches for monitoring mercury in humans and the environment.

To strengthen the capacity for mercury analysis in humans and the environment to accurately determine their concentrations globally



World Health Organization European
Centre for Environment and Health



Italian National Research Council
Institute of Atmospheric Pollution Research



UN Environment
Chemicals and Health Branch



Global Environment Facility

OUTPUTS

❖ One-year pilot testing in 12 countries on :

- Air monitoring
- Human Biomonitoring



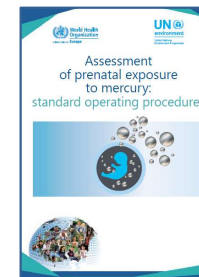
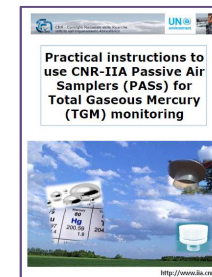
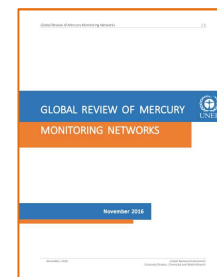
❖ 38 - Interlaboratory assessment of laboratories analysing Mercury and 210 in the databank



❖ Manuals, SOP, Protocols & Videos



Country	Country Code	Region
Algeria	ALG	AFRICA
Argentina	ARG	AMERICA
Australia	AUS	ASIA
Austria	AUT	EUROPE
Bangladesh	BAN	ASIA
Belgium	BEL	EUROPE
Brazil	BRA	AMERICA
Bulgaria	BUL	EUROPE
Canada	CAN	AMERICA
China	CHN	ASIA
Colombia	COL	AMERICA
Costa Rica	CRI	AMERICA
Czechia	CZE	EUROPE
Denmark	DNK	EUROPE
Egypt	EGY	AFRICA
France	FRA	EUROPE
Germany	DEU	EUROPE
Ghana	GHA	AFRICA
Greece	GRC	EUROPE
India	IND	ASIA
Indonesia	IDN	ASIA
Italy	ITA	EUROPE
Japan	JPN	ASIA
Korea	KOR	ASIA
Madagascar	MAD	AFRICA
Mexico	MEX	AMERICA
Morocco	MAR	AFRICA
Netherlands	NLD	EUROPE
Nigeria	NGA	AFRICA
Poland	POL	EUROPE
Romania	ROU	EUROPE
Russia	RUS	EUROPE
Saudi Arabia	SAU	ASIA
Spain	ESP	EUROPE
Sweden	SWE	EUROPE
Switzerland	CHE	EUROPE
Taiwan	TWN	ASIA
Tanzania	TAN	AFRICA
Thailand	THA	ASIA
Togo	TGO	AFRICA
Turkey	TUR	EUROPE
Ukraine	UKR	EUROPE
United Kingdom	GBR	EUROPE
United States	USA	AMERICA
Vietnam	VNM	ASIA
Zambia	ZMB	AFRICA
Zimbabwe	ZWE	AFRICA



Provisional Agenda

- Opening remarks
- Meeting objectives
- Update of the ad-hoc Technical Expert Group on Effectiveness Evaluation
- IAEA activities on mercury
- Networks for soil monitoring
- Mercury in biota
 - Key elements in monitoring and analysis of biota
- Mercury in soil
 - Key elements in monitoring and analysis of soil
- Format and annotated table of content on soil and biota report
- Key information resources
- Way forward for the development of the reports
- Future opportunities and next steps beyond the GEF-funded project

(Visit of the IAEA Environmental Laboratory – 13 May Afternoon)

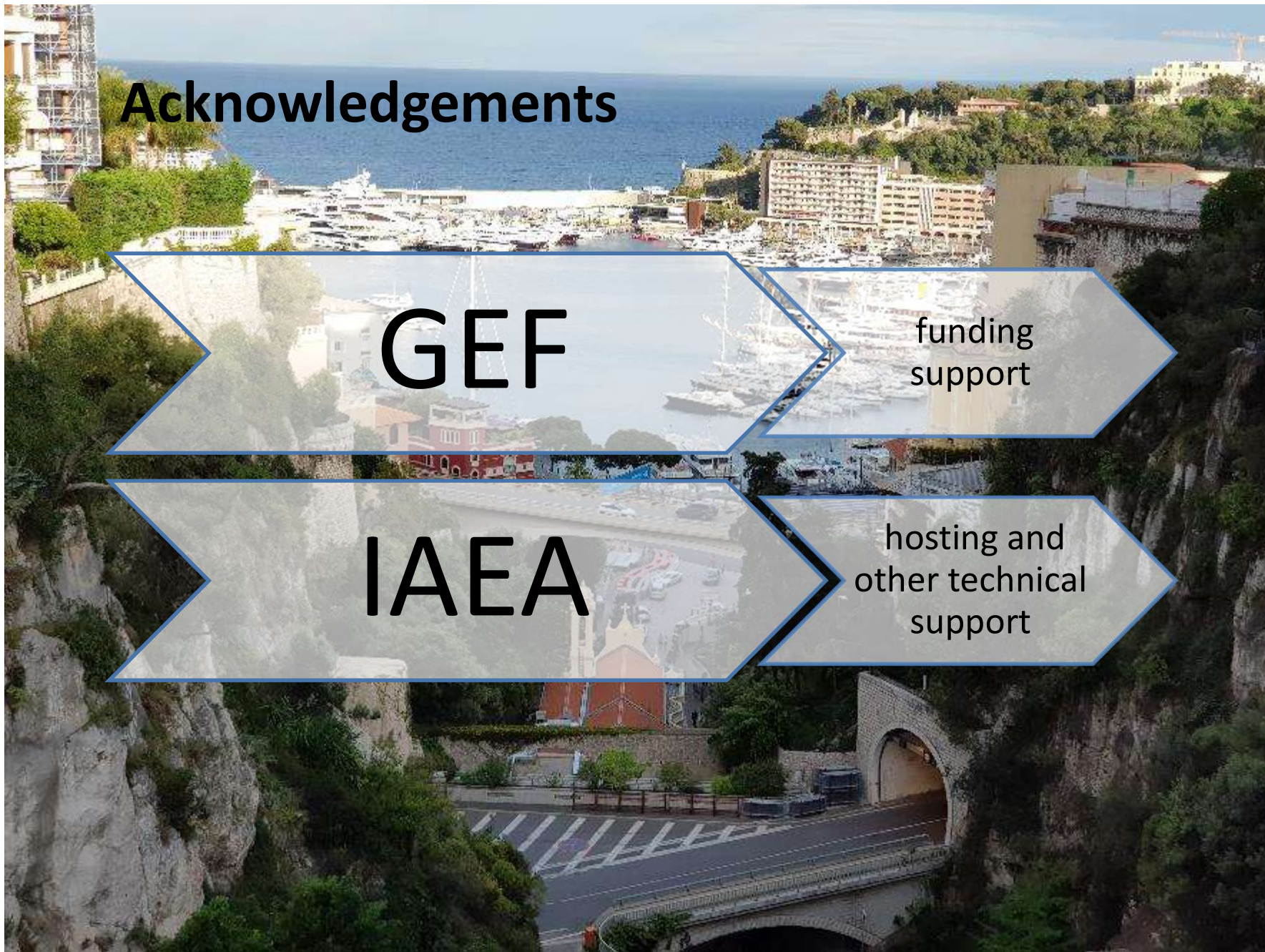
Acknowledgements

GEF

funding
support

IAEA

hosting and
other technical
support





Thank you