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# Continuing Regional Support for the POPs Global Monitoring Plan under the Stockholm Convention and new POPs tools and methods

**GMP2 Africa Inception Workshop**

6-8 July 2016

Accra, Ghana

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# Overview



2005-2008

- **Global laboratory capacity building**

2009-2013

- **GMP 1**

2012-2015

- **Development of tools to analyse New POPs**

2015-2019

- **GMP 2**

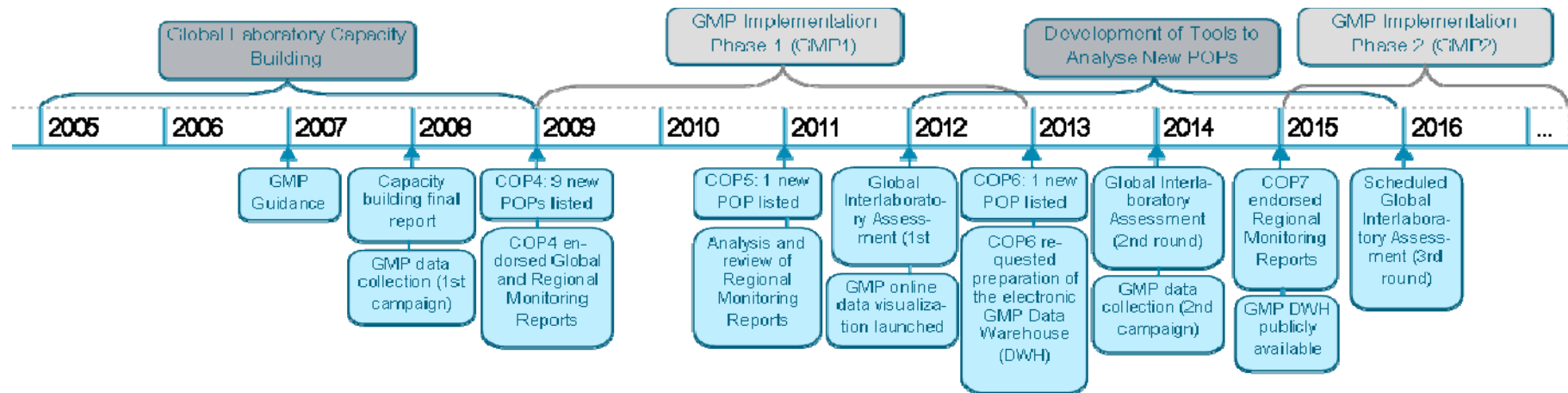


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# Timeline





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## Objective of GEF GMP 2

*To strengthen the capacity for implementation of the updated POPs Global Monitoring Plan (GMP) and to create the conditions for sustainable monitoring of the **23 POPs in each region***





## Timeframe

*48 months (2015-2018)*

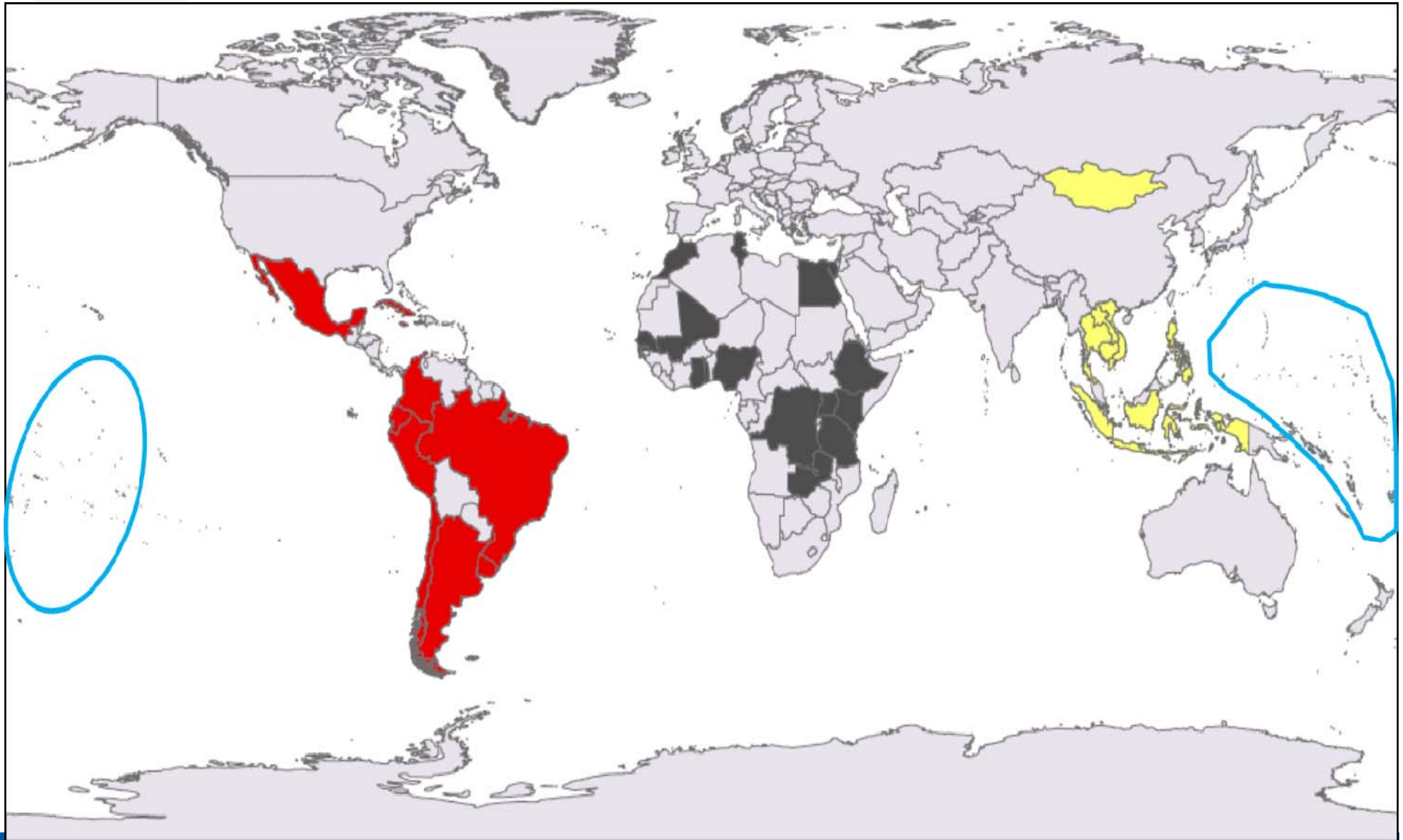
## Implementing Agency

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## Executing agencies

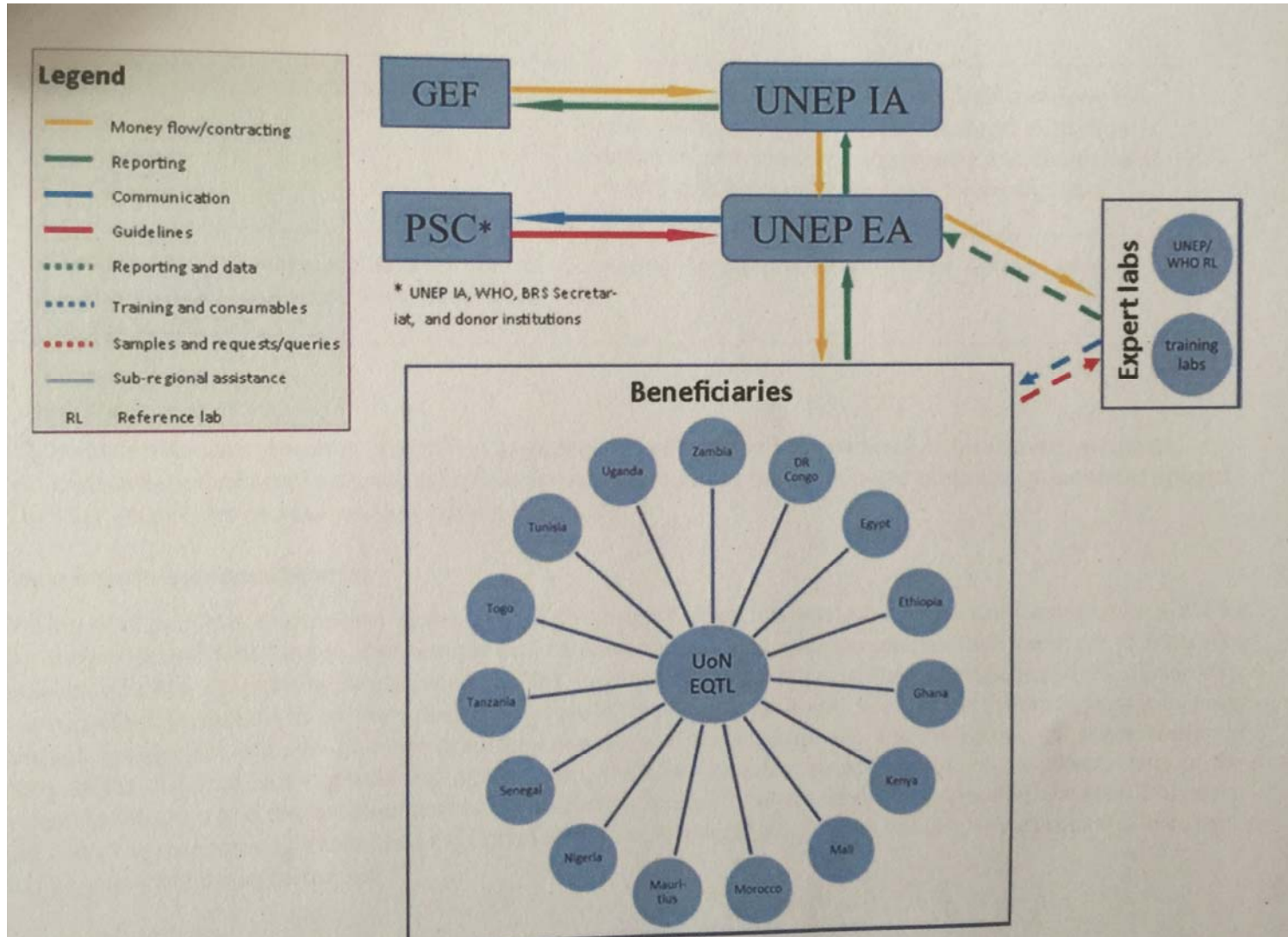
*UNEP and SCRC-Uruguay for GRULAC*







# GMP2: Organigram



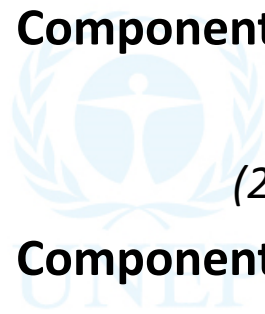


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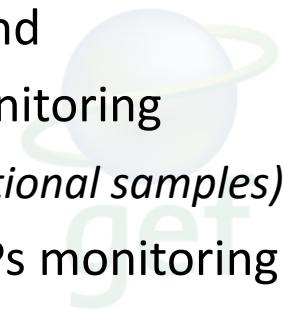


## Each project will:

- ✓ **Component 1:** Securing conditions for successful project implementation
- ✓ **Component 2:** Capacity building and data generation on analysis of core abiotic matrices (air and water)  
*(2 years of PAS and water sampling)*
- ✓ **Component 3:** Capacity building and data generation on analysis of core biotic matrices (human milk)  
*(1 round of human milk sampling)*
- ✓ **Component 4:** Assessment of existing capacities and reinforcement of national POPs monitoring  
*(2 rounds of interlaboratory assessments and national samples)*
- ✓ **Component 5:** Securing conditions for sustainable POPs monitoring



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# Component 1:

- ✓ **Component 1:** Securing conditions for successful project implementation
  - ✓ Organize regional inception workshop
  - ✓ Detail activities and responsibilities with a workplan and budget
  - ✓ Update POPs laboratory databank

## We need to address/have:

- Names for coordinators
- To discuss on agreements
- Identify laboratories – update information

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## Component 2:

- ✓ **Component 2:** Capacity building and data generation of core abiotic matrices
  - ✓ Identify sampling sites for AIR MONITORING in the region
  - ✓ Identify strategic sampling sites for AIR monitoring
  - ✓ Provide equipment, training and guidelines to operational national laboratory
  - ✓ Summarize results of analysis from region in two reports (air – water)

### We need to:

- Name of air coordinator
- Name of *water* coordinator
- Verify coordinates of sampling sites
- Names and addresses to where materials need to be sent



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## Component 3:

- ✓ **Component 3:** Capacity building and data generation of core biotic matrices
  - ✓ Provide materials and guidelines to countries in the region for human milk for the 6<sup>th</sup> round of UNEP/WHO survey
  - ✓ Provide materials and guidelines to national laboratories in the region to undertake the analysis of human milk samples

### Now we need to:

- Names and addresses to where materials need to be sent
- Ethical committee process undertaken

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# Funding

Region	GEF funds	Co-financing	Total
Africa	4,208,000	10,190,200	14,398,200
Asia	3,936,000	13,164,900	17,100,900
GRULAC	3,636,000	13,375,401	17,011,401
Pacific Islands	1,995,000	6,448,604	8,443,604
<b>Grand total</b>	<b>13,775,000</b>	<b>43,179,105</b>	<b>56,954,105</b>

## Cofinance committed:

- All participating countries
- Executing agencies (UNEP and Uruguay Centre)
- BRS Secretariat
- CVUA UNEP/WHO Reference Laboratory
- Recetox
- MTM Örebro University
- IVM VU University Amsterdam
- CSIC Barcelona
- EULA, Chile
- University of Queensland, AUS
- Government of Japan (MOEJ)



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# GMP2: POPs to be monitored

	Compounds to Be Monitored			
	Air	Human Milk	Human Blood	Water
<b>Initial POPs</b>				
Aldrin	Aldrin	Aldrin	Aldrin	Water has not been recommended as a core matrix for the lipophilic and nonpolar initial twelve POPs; therefore, analysis of surface waters is not included
Chlordane	<i>cis</i> - and <i>trans</i> -chlordane; and <i>cis</i> - and <i>trans</i> -nonachlor, oxychlordane	<i>cis</i> - and <i>trans</i> -chlordane; and <i>cis</i> - and <i>trans</i> -nonachlor, oxychlordane	<i>cis</i> - and <i>trans</i> -chlordane; and <i>cis</i> - and <i>trans</i> -nonachlor, oxychlordane	
DDT	4,4'-DDT, 2,4'-DDT and 4,4'-DDE, 2,4'-DDE, 4,4'-DDD, 2,4'-DDD	4,4'-DDT, 2,4'-DDT and 4,4'-DDE, 2,4'-DDE, 4,4'-DDD, 2,4'-DDD	4,4'-DDT, 2,4'-DDT and 4,4'-DDE, 2,4'-DDE, 4,4'-DDD, 2,4'-DDD	
Dieldrin	Dieldrin	Dieldrin	Dieldrin	
Endrin	Endrin	Endrin	Endrin	
HCB	HCB	HCB	HCB	
Heptachlor	Heptachlor and heptachlorepoixide	Heptachlor and heptachlorepoixide	Heptachlor and heptachlorepoixide	
Mirex	Mirex	Mirex	Mirex	
PCB	ΣPCB <sub>7</sub> (7 congeners): 28, 52, 101, 118, 138, 153, and 180	ΣPCB <sub>7</sub> (7 congeners): 28, 52, 101, 118, 138, 153, and 180	ΣPCB <sub>7</sub> (7 congeners): 28, 52, 101, 118, 138, 153, and 180	
	PCB with TEFs <sup>1</sup> (12 congeners): 77, 81, 105, 114, 118, 123, 126, 156, 157, 167, 169, and 189	PCB with TEFs* (12 congeners): 77, 81, 105, 114, 118, 123, 126, 156, 157, 167, 169, and 189	PCB with TEFs* (12 congeners): 77, 81, 105, 114, 118, 123, 126, 156, 157, 167, 169, and 189	
PCDD/PCDF	2,3,7,8-chlorosubstituted PCDD/PCDF (17 congeners)	2,3,7,8-chlorosubstituted PCDD/PCDF (17 congeners)	2,3,7,8-chlorosubstituted PCDD/PCDF (17 congeners)	
Toxaphene	Congeners P26, P50, P62	Congeners P26, P50, P62	Congeners P26, P50, P62	
<b>New POPs listed at COP-4</b>				
Chlordecone	Chlordecone	Chlordecone	Chlordecone	
α-HCH	α-HCH	α-HCH	α-HCH	
β-HCH	β-HCH	β-HCH	β-HCH	
γ-HCH	γ-HCH	γ-HCH	γ-HCH	
Hexabromobiphenyl	PBB 153	PBB 153	PBB 153	
Pentachlorobenzene	PeCBz	PeCBz	PeCBz	
c-penta BDE	BDE 47, 99, 153, 154, 175/183	BDE 47, 99, 153, 154, 175/183	BDE 47, 99, 153, 154, 175/183	
c-octa BDE	(co-eluting) Optional: BDE 17, 28, 100	(co-eluting) Optional: BDE 100	(co-eluting) Optional: BDE 100	
PFOS <sup>2</sup>	PFOS, PFOSA, NMeFOSA, NEtFOSA, NMeFOSE, NEtFOSE	PFOS, PFOSA	PFOS, PFOSA	PFOS, PFOSA
<b>New POPs listed at COP-5</b>				
Endosulfan	α-, β-endosulfan; and endosulfan sulfate	α-, β-endosulfan; and endosulfan sulfate	α-, β-endosulfan; and endosulfan sulfate	



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DR Congo



Togo



Mali

Photo 2: Préparation des échantillonneurs avant leur installation sur le site

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Figure 1: Donor mother from Kiribati

More than 85 national pools of human milk from 2000 to 2012 analysed

Shipment of glass bottles



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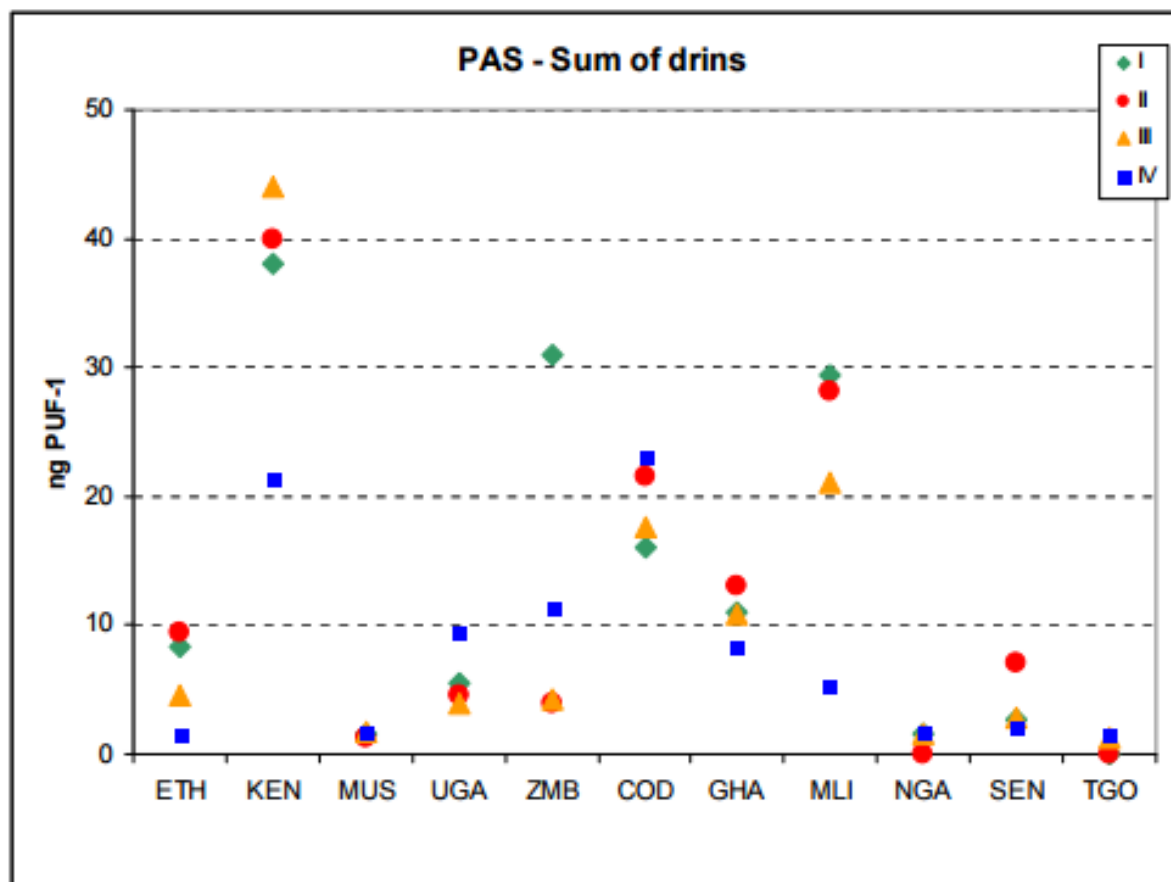


Figure 1. Sum of drins in PAS, 3 months exposure time

Source: AFRICA REGIONAL REPORT



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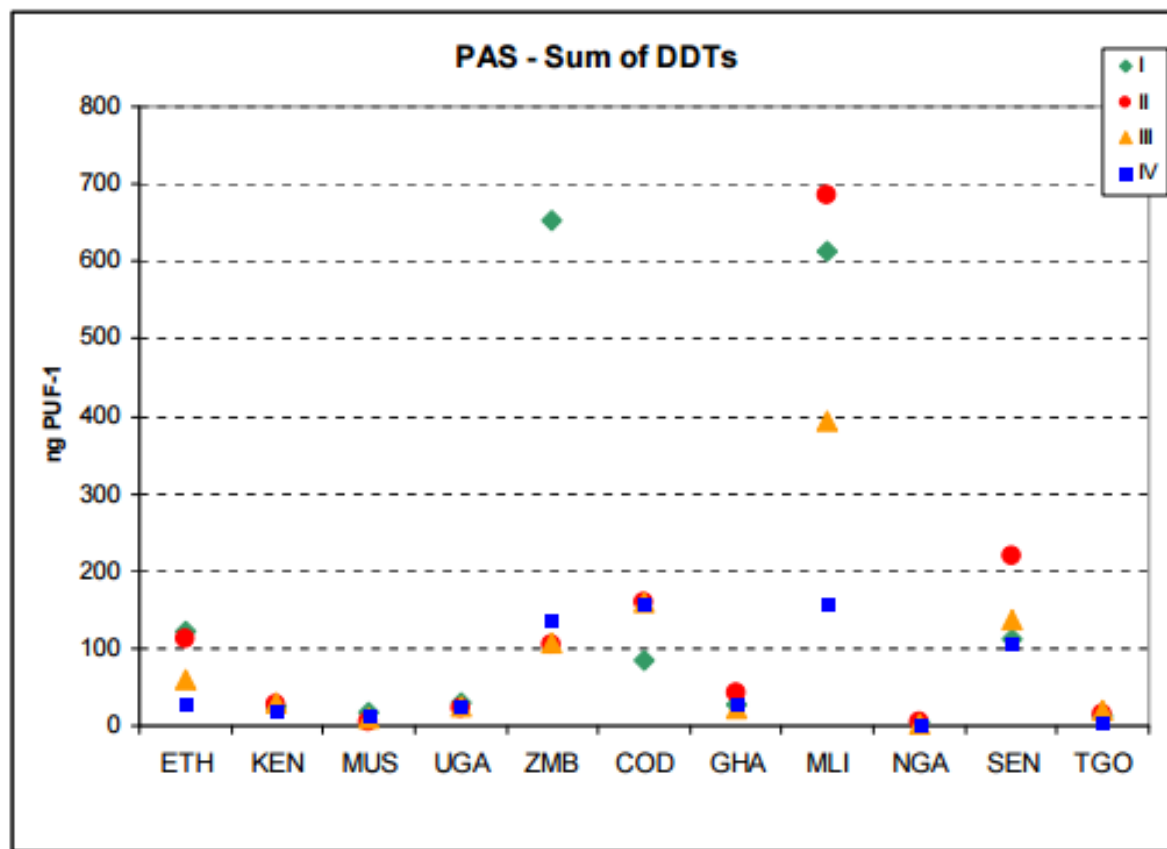
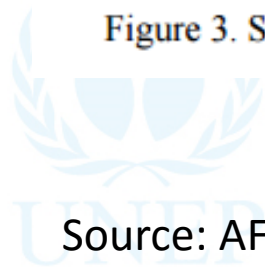


Figure 3. Sum of DDT in PAS 3 months exposure times

Source: AFRICA REGIONAL REPORT



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## GHANA

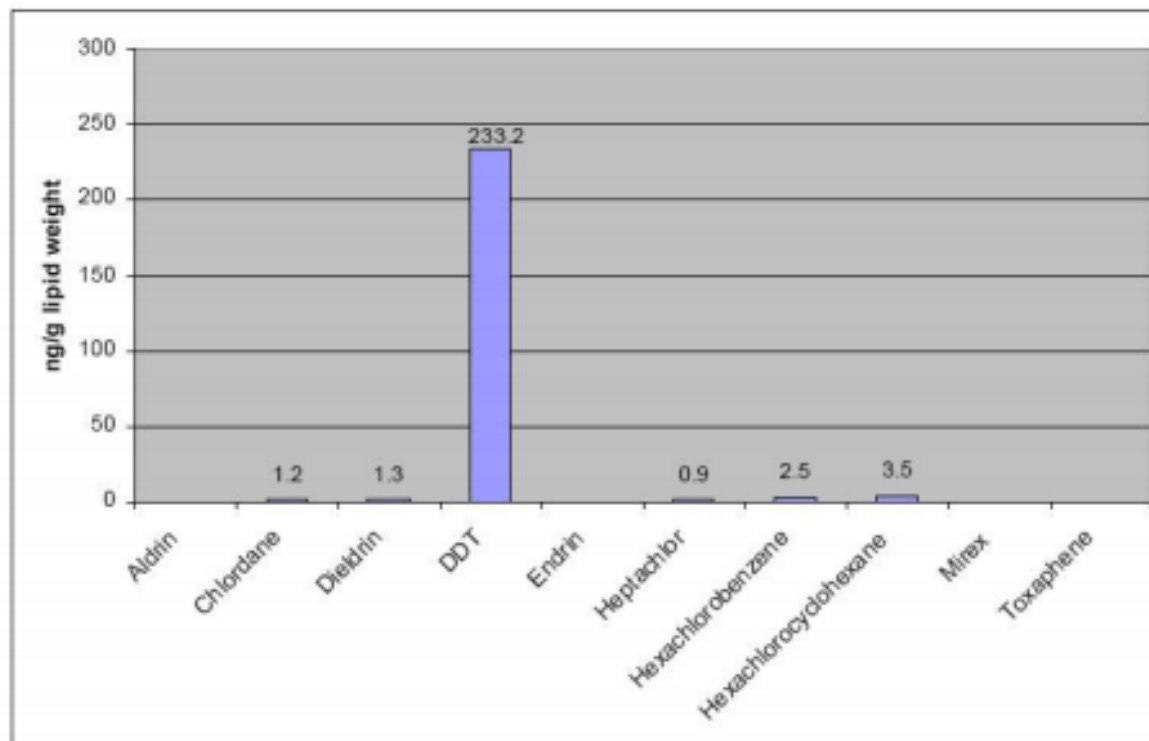


Figure 10. Level of selected POPs in human milk in Ghana

Source: AFRICA REGIONAL REPORT



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## GMP2: Next Steps

- **Expert laboratories** contracted for training courses, provision of consumables, analysis of abiotic and biotic samples etc.
- **Regional inception workshops** to be held:
  - GRULAC: BCCC Uruguay (December 2015)
  - Asia Region: Vietnam Environment Agency (January 2016)
  - Pacific Islands: University of the South Pacific (April 2016)
  - Africa Region: Ghana, EPA(July 2016)
- Preparation of SSFAs for **national activities** (national workplans and budgets)
- Identification of **capacities and training needs** within countries
- Update of the **POPs laboratory databank**
- Others



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## DURING THIS WORKSHOP

Air Sampling and  
analysis

Human milk  
Sampling and  
analysis

Water Sampling  
and analysis

National samples

Interlaboratory  
assessments

Agreements



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# Thank you very much!

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