

# Metrology in Chemistry AFRIMETS GA 2009

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Your measure of excellence



### Why do we need MiC?

- The Lake Victoria Fish Industry: The cost of the losses to the Ugandan economy alone of the fish ban which lasted from March to July 1999 was estimated at about US\$ 36.9 million, excluding the cost effect on the fishermen (estimated to be US\$1 million per month).
- Harmonized European standards on aflatoxin B1 a common contaminant affecting agricultural products – could jeopardise African exporters of nuts, cereals and dried fruits reportedly worth US\$670 million a year
- In Cote D'Ivoire, fisheries employ more than 420,000 workers and in Guinee-Bissau, while the employment figure is lower at around 120,000 workers, fisheries represent 4% of the GDP and 43% of the State's overall budget.



#### **Overview**

- Members
- Structure
- Programme
  - Country Introductions
  - Workshop on PT Schemes
- Past Activities
- Action Plan





#### **Members Present**

- Present at the meeting (8)
  - South Africa (SADC), Kenya (EAMET), Uganda (EAMET), Tanzania (SADC), Zimbabwe (SADC), Cote d'Ivoire (SOAMET), Ghana (NEWMET), *Tunisia* (MAGMET)
- Apologies
  - Egypt, Rwanda



### **Programme**



- Country Overviews
  - Detailed presentations of the activities in all participating countries
  - Intense discussions on approaches and practices of the countries
  - Common areas of interest identified



### **Country Overviews**



Area	TBS	UNBS	KEBS	GHANA	ZIM	NMISA
Inorganic Chem	Heavy metals	water – heavy	Fortification in	Metallic		Speciation; heavy
		metals and cations	food and toxic	contaminants		metals in food
			heavy materials			
Organic Chem		maize and cereal (moisture, ash,				
		protein and fats);				
Organic/	Mycotoxins	Mycotoxins&	Melamine in milk	Mycotoxins		Mycotoxins in
Bioanalysis	& melamine	melamine	and mil products			maize & melamine in milk
Organic/Bio			Aflatoxins in coffee			
Organic/Bio	Pesticide residues	pesticide residues		pesticide residues in Chocolate; Cocoa; Pineapple; Pear; Fresh tomatoes	pesticide residues	Persistent organic pollutants; Dioxins
Organic/Bio	Antibiotic resides	Antibiotic	Antibiotics and steroid growth promoters in food			Chloram-phenicol in milk
		honey (HMF)				
Inorganic	Health diagnostic equip/reagents		Migration of contaminants from packaging materials			
			Breath alcohol calibration	Breath alcohol calibration	Breath alcohol calibration	Breath alcohol calibration
Gas			Purity of medical gases		Required by industry	Purity analysis of gases

#### **Actions**

#### PT Schemes

Scheme	Coordinator	Status	Action
Wheat Flour	KEBS	Round 4	Sample Prep PT Sept-Dec 09
Edible Salt	TBS	Round 4	Sample Prep PT Sept-Dec 09
Edible Oil	UNBS	Round 2	Sample Prep PT Sept-Dec 09
Water Chemistry Microbiology	NAMWATER UNBS	Round 5 Round 2	
<b>Aqueous Ethanol</b>	NMISA	New	Call for Participants



### **Actions (continued)**



#### Questionnaire

- Development of a questionnaire to compile the picture of chemical activities throughout Africa
- Will be used for the MiC RoadMap (GA2010)

#### MiC Guideline

- Based on the APMP document
- Adapt with local case studies

#### MiC Structure/Officers

- Agreement of the structure at the GA
- Appointment of the officers by email after meeting



#### A Structure for AFRIMETS MiC



- CCQM-based
  - Organic
  - Inorganic
  - Gas
  - Surface Analysis
  - Bio Analysis
  - Electrochemistry
  - -KCWG

- Level-based
  - CCQM Matters
  - (PT Coordination)
  - Accreditation Support
  - Development and Awareness
  - Training



### **Actions (continued)**



- Webpage
  - All relevant documents
  - 'Country space' for announcements
  - Communication is critical!!!
- Training Programme
  - Waiting for outcome of the questionnaire
  - Train-the-trainer will be critical component





## Thank you!

Tanzania exported \$140 million worth of fish in 1998, but due to hygiene and other safety concerns a major market banned imports, resulting in 50% loss of exports and 60,000 job losses. Integrated assistance (cost approx. \$700,000) to improved processing/ handling, better quality inspection and setting up recognized laboratory services enabled restart of exports in 1999

