National Reporting Toolkit

IEA Workshop Presentation

Wednesday 11th December, 9.30am

Agenda

- 9.30am - Overview of National Reporting Toolkit (Jonathan Smith, UNEP-WCMC)
  - aims and objectives
  - progress so far

- 9.45am - NRT GI backend (Tamer Abdelkadir, AGEDI)
  - Introduction
  - NRT and where it fits in DPSIR
  - NRT...adding Live to SoER
  - NRT Conceptual Components
  - Unified Data Standards
  - Overview on NRT phase 1 back end Application
  - Future of NRT
  - Discussions

- 10.15am - NRT- Regional and Global (Craig Mills, UNEP-WCMC)
  - Phase 2 roll-out
  - regional level analyses
  - links to UNEP-Live

Milestones

FACILITATING A SUSTAINABLE FUTURE:

JOHANNESBURG SUMMIT 2002 — 26 August - 4 September 2002

❖ 2009: SoE Report Abu Dhabi Published

❖ 2009: Hosted Global Meeting on Environmental Information Networking

❖ 2010: Review of State of the Environment Report Abu Dhabi & Sector Papers

❖ 2010: Environmental Outlook

❖ **2011: Eye on Earth Summit & inception of 8 Special Initiatives**

2013: Arabian Atlas of Our Changing Environment with UNEP

2013: Local, National & Regional NRT Phase 1

2014: **Local, National & Regional NRT Phase 2**

❖ 2004: Inclusion of Abu Dhabi State of the Environment Reporting into AGEDI process

2002	2004	2006	2008	2010	2013 →

❖ Sept 2, 2002
AGEDI launched @ WSSD, Johannesburg

❖ 2006: 9 Environmental Sector Papers published

❖ 2006: First web based reporting in Region: SoE Report for Abu Dhabi

❖ 2012: Blue Carbon Demonstration Project

❖ 2012: Local National & Regional Biodiversity Rapid Assessment

eye on earth
CONVENE | CONVERGE | COLLABORATE

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Aims and Objectives:

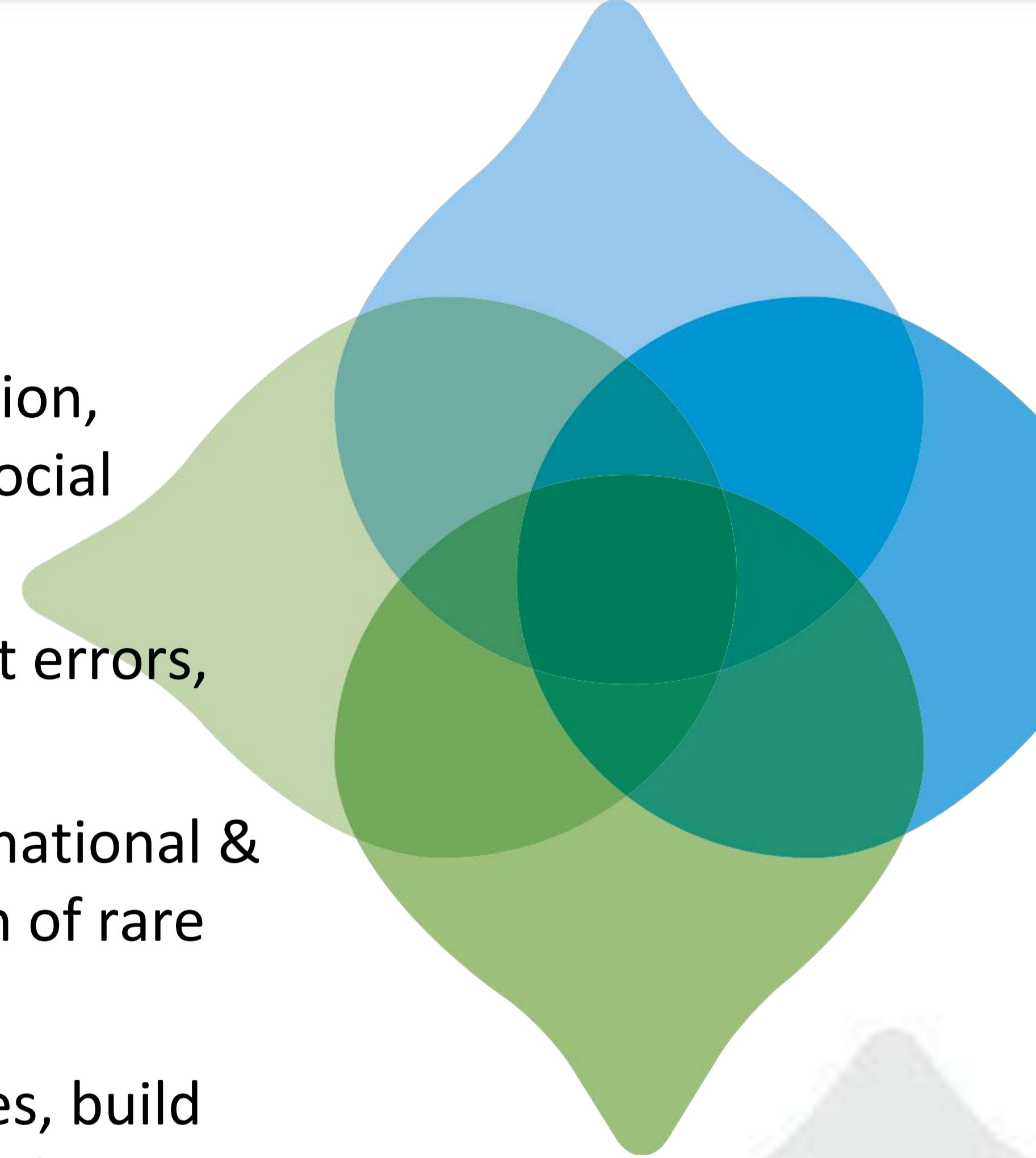## AIMS:

❖ **SOER – Live was envisaged as an online reporting tool to assist and enable national governments to develop their national State Of the Environment Reports online.**

❖ Provide a web-based State of Environment reporting application.

❖ Provide users a choice of charts and graphs to use developing State of Environment report .

❖ Assist countries to produce a digital national State of Environment report.

❖ Enable countries to collaborate to develop a digital regional State of Environment report.

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Aims and Objectives:

OBJECTIVE:

❖ Develop an user-focused State of Environment (SOER) application, sensitive to the interaction between environment & cultural/social issues.

❖ Online application to upload data, edit the draft report, correct errors, & reduce time taken to produce State of Environment reports.

❖ Administrators determine what data is shared or included for national & regional reporting but not publically available (e.g. the location of rare fauna/flora species).

❖ Easier to develop State of Environment Reports using templates, build capability and capacity through help guidance notes and examples.

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What is the state of my country's environment?

National Reporting Toolkit

Overview of the National Reporting Toolkit

Jonathan Smith - UNEP-WCMC

What is the National Reporting Toolkit?

An online application providing environmental intelligence...

- Online platform to report, visualise, analyse and collect indicators of environmental performance and status
- collecting, analysing and presenting indicators takes time, and NRT automates a lot of this to speed-up the process of writing reports: Provides collaboration, visualisation, reporting and data management functions.

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Show you what it does, not tell you what it does.

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Connecting people and information

- Interconnection
  - unlocks existing data stores through APIs etc- sharing of information for use in different arenas (national accounting, reporting to conventions, development planning)

- Fits with existing workflow
  - Designed to complement and enhance existing workflows which deliver the necessary information to decision-makers

- Indicators
  - measurement and context (the key information) calculated quickly and presented simply, so understand change in current status and outlook for future

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So they can change the way environmental assets are managed

- Building capacity to communicate with decision-makers, so decisions can be taken more quickly
- Analyses that can speak across departments, mainstreaming environment into areas where a real impact can be made
- Demonstrate the return on investment in natural assets, providing information needed to test innovative mechanisms

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We are building it in an agile, iterative way

- Learning
  - Meetings with stakeholders to prioritise what needs to built

- Building
  - Working intensely on a 'sprint' and then polishing ready to show

- Release
  - Let stakeholders use the software and gather remote or face-to-face feedback

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National Reporting Toolkit

**GI backend of the National Reporting Toolkit
Tamer Abdelkadir, AGEDI**
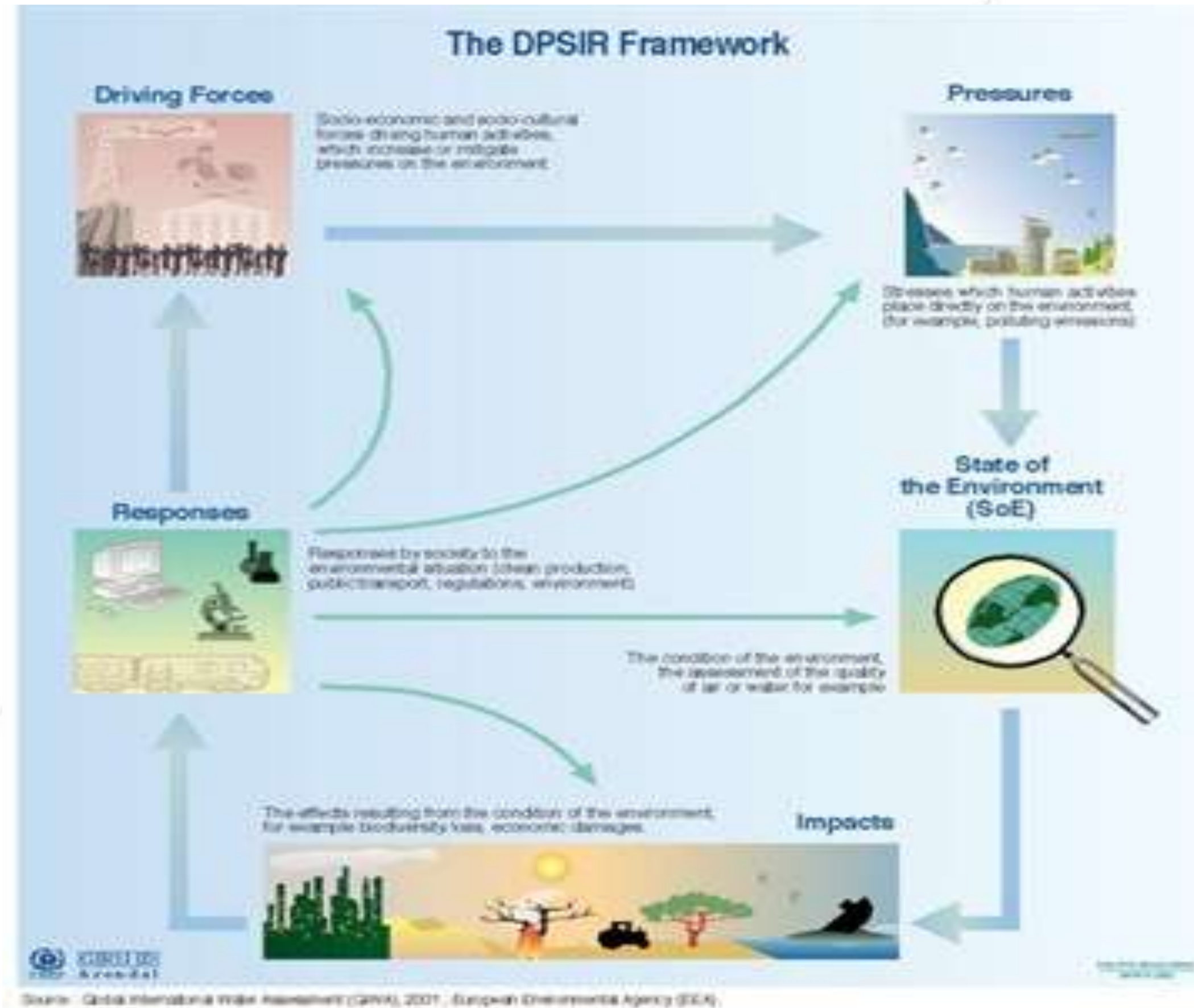
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Introduction
تقديم

❖ **About us**

❖ **K&A Consultants – NRT Back-end module developers – Collaboration with AGEDI, UNEP-WCMC**

❖ **شركة خطيب و علمي، قامت بتطوير النظام الخلفي كمكون لنظام حافظة التقارير الوطنية، بالتعاون مع AGEDI, UNEP-WCMC**

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DPSIR

❖ **Where NRT fits in DPSIR Framework**

❖ حافظة التقارير الوطنية و ملائمتها لإطار

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NRT..Adding Live to SoER

What is different about NRT?

❖ Web-based

❖ Frequent updating, dynamic, paper less/environmental friendly

❖ Automated validation, processing, display, output environmental data

❖ Advanced GIS modelling and functionalities

❖ User-interactive, user-centric, responsive

❖ Multi-lingual in single report

حافظة التقارير الوطنية...

اللمسة الإضافية لتقارير حالة البيئة

❖ تطبيق شبكي

❖ تحديث مستمر و محتوى ديناميكي، صديق للبيئة

❖ أتمتة عمليات تدقيق و تشغيل و عرض البيانات البيئية

❖ وظائف و نمذجة متقدمة للحالة البيئية

❖ التواصل و الإستجابة مع المستخدمين

❖ تعدد اللغات في التقرير الواحد

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NRT conceptual components

المكونات الفكرية للنظام

What blocks build NRT?

Front End Module

❖ Data display

❖ Data manipulation

❖ Simple content editing

Backend module

❖ System configuration

❖ Data import tool

❖ Data validation tool

❖ Data processing

❖ Data output

التطبيق الأمامي

❖ عرض البيانات

❖ تغيير و تطوير البيانات

❖ تعديلات بسيطة على المحتوى

التطبيق الخلفي

❖ ضبط النظام

❖ أداة إدخال البيانات

❖ أداة تدقيق البيانات

❖ تشغيل البيانات

❖ تصدير البيانات

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Unified Data Standards

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المعايير الموحدة للبيانات البيئية

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Why do we need them?

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لماذا نحتاجها؟

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- ❖ Data validation

- ❖ Data processing

- ❖ Reporting Format

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- ❖ تدقيق البيانات

- ❖ تشغيل البيانات

- ❖ نمط و شكل التقرير

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ما نوع المعايير المقترحة؟

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What types of Standards?

- ❖ Collection criteria and methods (reliable data sources)

- ❖ Coverage areas (sample selection from entire population)

- ❖ Accuracy

- ❖ Frequency of collection

- ❖ Spatial & attribute specifications & formats

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- ❖ معايير طرق جمع البيانات

- ❖ معايير الموقع و مناطق التغطية

- ❖ معايير الدقة المطلوبة للبيانات

- ❖ معايير للفترات الزمنية لتجميع البيانات

- ❖ معايير أنماط البيانات المكانية و الوصفية

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NRT Backend Overview

عرض نبذة عن النظام الخلفي

Video/Snapshots showing different functions

(10 minutes)

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What is the future of NRT

مستقبل تطبيق حافظة التقارير الوطنية

On the Business Level:

على النطاق العملي

❖ Wider extent (Geography)

❖ نطاق جغرافي أوسع

❖ More parameters

❖ قياسات بيئية أكثر

❖ More data sources

❖ مصادر بيانات أكثر تنوعا

❖ More user groups- sophisticated scenarios

❖ مجموعات مستخدمين أكثر و خطوات أكثر تعقيدا

❖ Developed user requirements

❖ متطلبات مستخدمين أكثر تطورا

On the Technical Level

على النطاق التقني

❖ Automated data feeds from environmental sites

❖ تحديث آلي للبيانات البيئية من الموقع

❖ Real-time geo-processing

❖ تشغيل و تحليل لحظي للبيانات

❖ Advanced simulations & scenarios، (trend analysis ، mock-up، force-driven..etc)

❖ تحليلات و نمذجة إفتراضية أكثر تطورا

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Discussions

more information
tamer.abdulkadir@khatibalami.com

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The National Reporting Toolkit: regional and global scale
Craig Mills - UNEP-WCMC

National Reporting Toolkit

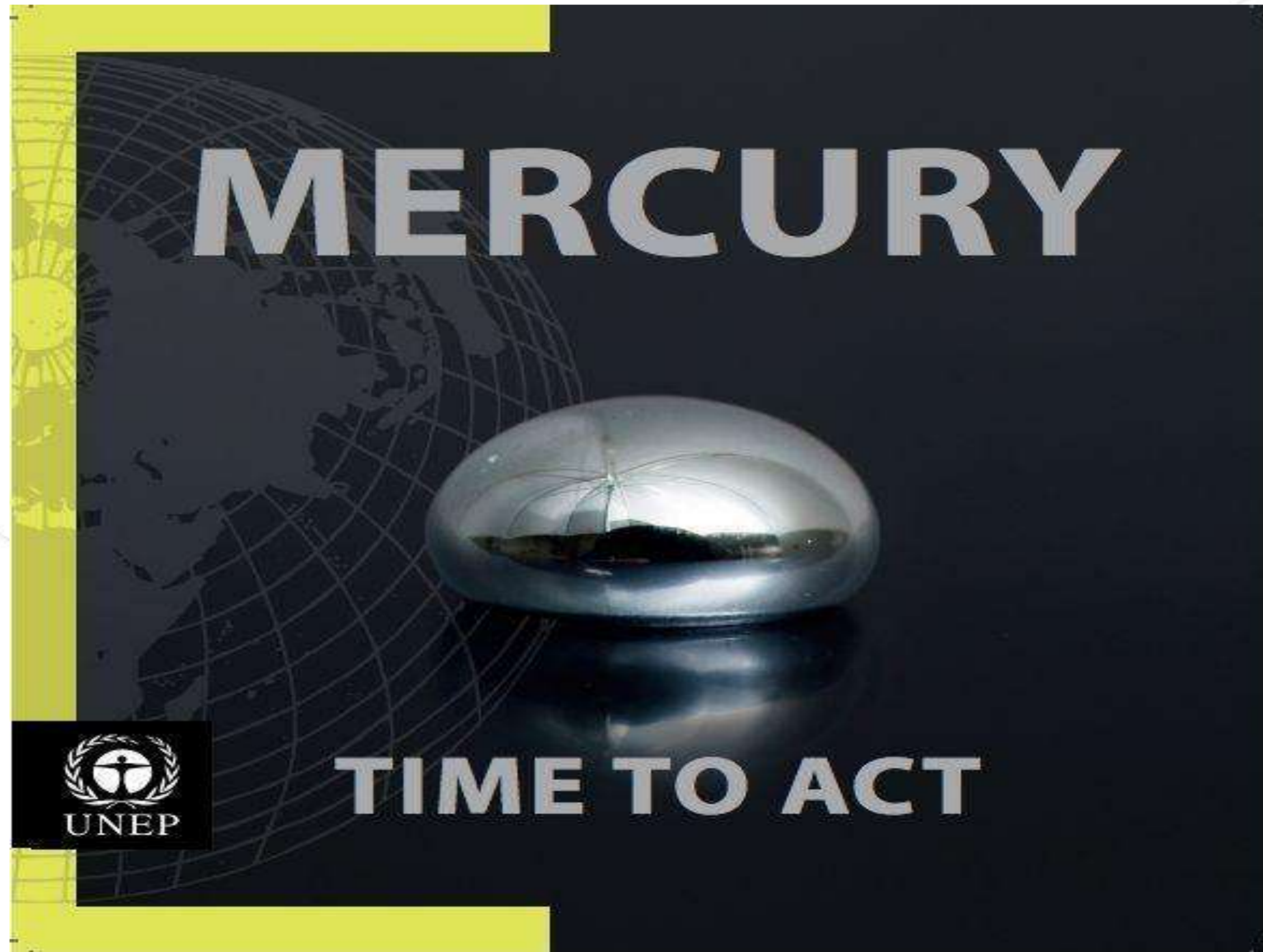# Increasing scale increases benefits

- Next year we hope to deploy to four countries in the region
  - United Arab Emirates, Oman, Kuwait, Saudi Arabia

- This provides an opportunity to link nations together more easily, providing the basis for much quicker regional level analysis
  - at national level, spend less time responding to data requests
  - at regional level, can work with most recent data as soon as possible, supporting LAS and CEDARE

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Increasing scale increases benefits

- In subsequent phases we hope to deploy NRT in other regions, particularly in Africa, Latin America and South-east Asia

- This provides an opportunity to link countries together to facilitate global-level analyses
  - at national level, spend less time responding to data requests
  - at global level, spend less money assembling comprehensive data sets and can analyse most recent data more quickly

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UNEP has a mandate to monitor the environment

- **UNEP** plays a normative role in global environmental policy discussions (e.g. UNFCCC, UNCCD, CBD, Rio+20)
- **Rio+20** mandate to strengthen the science-policy interface

UNEP-Live - the future approach

- Providing timely, high quality environmental information to decision-makers across the globe (www.uneplive.org)

NRT is a part of UNEP-Live

- UNEP-Live is a revolutionary new way of monitoring and reporting on the state of the environment
  - linking datasets together automatically through APIs means the most recent data is available when analysing the global state of the environment
  - drill down to national level data sets and indicators
  - compare performance with other countries

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Title

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