

Water Quality Management: Capacity Building

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CONTENTS

- Quick justification
- Workshop in Bangkok
- Indicate selected directions

If the current trend continues, sub-Saharan Africa will not reach the MDG target

Figure 4 Progress in drinking water coverage, 1990 - 2002

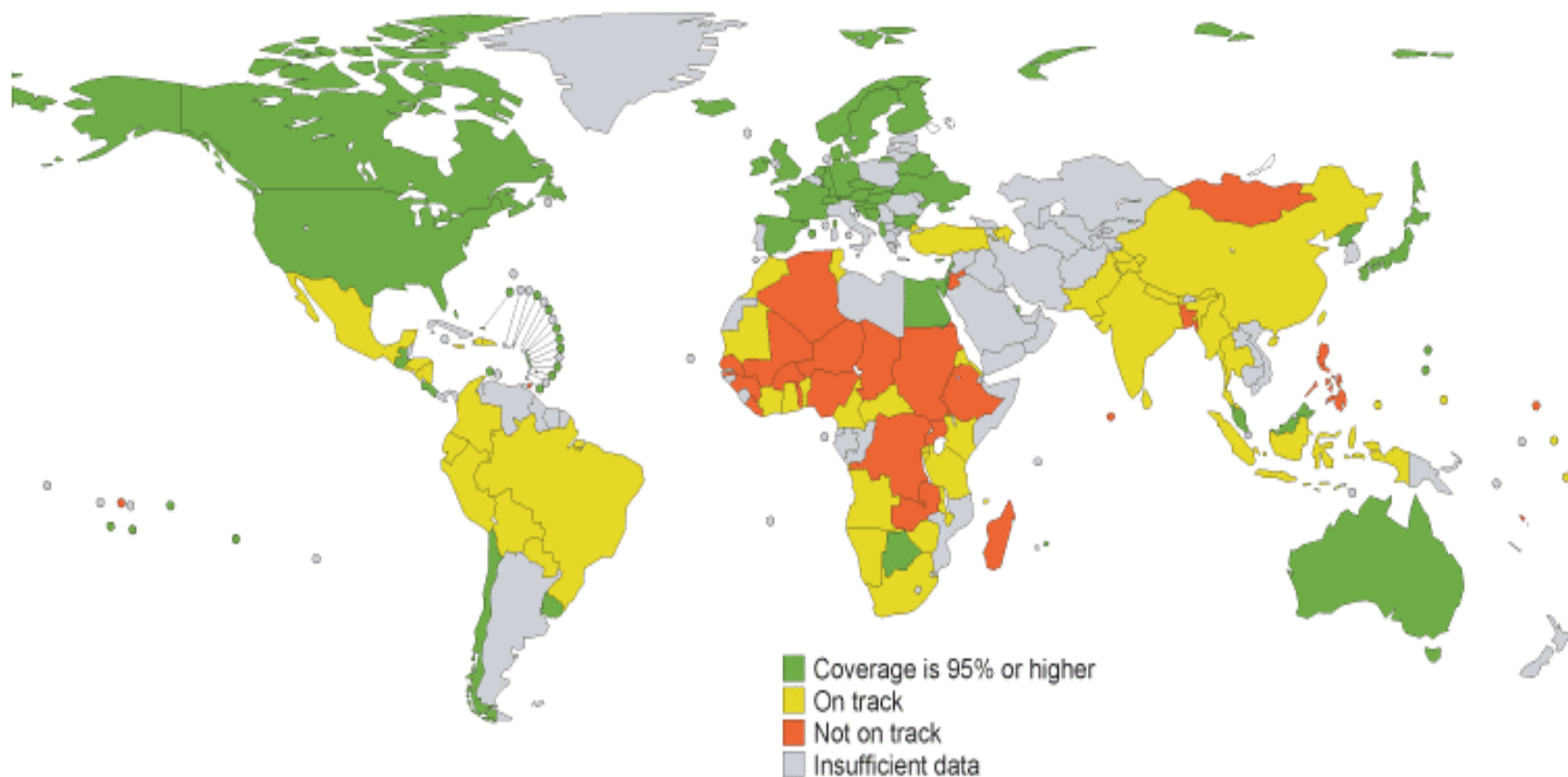


Figure 1. Summary of the World Distribution of Documented Problems with Arsenic in Groundwater and the Environment



Source: Modified after Smedley and Kinniburgh 2002.

Note: In China, arsenic has further been identified in the provinces of Jilin, Qinghai, Anhui, Beijing, and Ningxia (reported at Regional Operational Responses to Arsenic Workshop in Nepal, 26–27 April 2004).

In India, further affected states are Assam, Arunachal Pradesh, Bihar, Manipur, Meghalaya, Nagaland, Uttar Pradesh and Tripura.

The Workshop

- 10 participants
- Eight countries
- Objectives:
 - Issues
 - Address 10 questions
 - Recommendations

Existing Situations

- WQ related to all sectors and hydrologic cycles
- Consequences multi-dimensional and significant
- WQ policies, guidelines, standards and MDGs
- National monitoring; institutional, inadequate and irregular
- International monitoring; limited- GEMS, WWAP
- Measurement methods; limited, complicated and/or costly
- Use of the data: rarely, questionable reliability
- Data sharing: rarely, limited demand, and/or institutional problems

Important issues to address

- Recognition
- Lack of: knowledge/interest, technology and fund
- Scopes in remote sensing: temp., depth, chlorophyll, suspended solids, clarity, soil moisture, salt water intrusion, algal blooms..... Channel morphology, rainfall, ..
- Data from satellite sensors (LANDSAT, MODIS, IKONOS....) for mapping, estimation, risk analysis

Capacity Building Needs

- Recognition
- Public education and awareness
- Training and skill development
- Integration and coordination of agencies, sectors (IWRM), and themes (floods, droughts, rural, urban, etc,)
- Access to satellite and in-situ data at local, national and international level (regional data base)
- Infrastructure strengthening; monitoring, GO-NGO partnership, etc.
- Funding

Recommendations

- **Endorse water quality as an integral component of water management and development**
- **Propose Asian WQ initiative under the GEO framework:**
 - **submission of a paragraph to GEO**
 - **recognition by GEO**
 - **workshops/training**
 - **task team**
 - **demonstration proposal**

Directions

- Water Cycle workshop (immediate) and GEO workshop?
- * Important sectors, interlinkages and basic indicators
- * Data needs, sources, ways; in-situ and satellite (policies..)
- * Institutional (national and international) needs
- * National and regional international data collection and use
- * Training needs
 - types
 - levels and stakeholders
- * Discuss possible demonstration projects
- River basin based; one/country +?
- Task team.....same one focal person/country to coordinate
- Submit water quality data

A wide-angle photograph of a calm ocean under a vast, blue sky. The sun is positioned on the far left, creating a bright, shimmering reflection on the water's surface. The sky is filled with soft, wispy clouds, and the overall color palette is dominated by various shades of blue and white. In the center of the image, the words "Thank you" are written in a bold, italicized, light blue font.

Thank you





