SOER - LIVE
BETA VERSION

Data Working Group
- Cairo, Egypt
11th - 13th
November

Aims and Objectives:

SOER - Live was envisaged as an online reporting tool to 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 develop 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.
Aims and Objectives:

**FACILITATORS:**

Abu Dhabi Global Environmental Data Initiative (AGEDI)

AGEDI works with EAD, Partners, Members and Stakeholders throughout the world to achieve a more sustainable future through 'best-impact' access to environmental and societal data.

**Environment Agency - Abu Dhabi (EAD)**

EAD is a governmental agency committed to protect and manage biodiversity, provide a clean environment and promote sustainable development in the Emirate of Abu Dhabi.

**United Nations Environmental Programme (UNEP)**

UNEP is the facilitator for environmental issues within the UN. It is an advocate for the sustainable development of the global environment.

**TECHNICAL TEAM:**

**World Conservation Monitoring Centre (WCMC)**

WCMC is UNEP’s specialist biodiversity assessment body, and the Centre for UNEP’s collaboration with WCMC.

**Third Party Environmental Consultant:**

Determine the core set of environmental indices and indicators required by the GIS Consultant and WCMC to develop the SOER-Live Beta (Abu Dhabi) and West Asia SOER-Live

**GIS Consultant:**

Develop import/export tool, geo-processing tools and ESRI geo-database that integrates seamlessly into the SOER-Live application

**STAKEHOLDER ENGAGEMENT:**

**PHASE 1**

EAD develop SOER-Live Beta for the Emirate of Abu Dhabi

EAD publishes regular:

- milestones
- Reports and screenshots

Arab Region Data Working Group: 3-6 Early Adopters Countries

**PHASE 2**

3-6 Early Adopters Countries:

Use user feedback to develop SOER-Live Beta Version 1

**PHASE 3**

Develop Regional SOER for the Arabian Peninsula
SOER-Live:
SIMPLE, FUNCTIONAL & ROBUST:

SOER-LIVE: GIS Technology

Indicators
Menu navigation
Report

Maps
Table, Chart, Map

Technical data for scientist

Development Strategy
SIMPLE, FUNCTIONAL & ROBUST:

SOE Report Live
Menu to navigate
Bar or pie chart
Maps to locate

Technical data for scientist

AGEDI
**Development Strategy**

**USER FOCUSED:**

<table>
<thead>
<tr>
<th>Feature</th>
<th>Function</th>
</tr>
</thead>
<tbody>
<tr>
<td>Access</td>
<td>SOER-Live aims to accommodate all users</td>
</tr>
<tr>
<td>Support</td>
<td>Simple to complex IT infrastructure</td>
</tr>
<tr>
<td>User Interface</td>
<td>Use drop-down lists to enter data</td>
</tr>
<tr>
<td></td>
<td>Template to upload SOE data</td>
</tr>
<tr>
<td>Recommendation</td>
<td>Develop <strong>Proof of Concept</strong> by February 2013 and to commence production of Beta Version 1 by April 2013</td>
</tr>
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</table>

**MODULAR FORMAT:**

<table>
<thead>
<tr>
<th>UPLOAD Method</th>
<th>Low tech</th>
<th>Intermediate</th>
<th>High tech</th>
</tr>
</thead>
<tbody>
<tr>
<td>Development</td>
<td>Basic</td>
<td>Complex</td>
<td>Complex</td>
</tr>
<tr>
<td>Production Costs</td>
<td>Low - medium</td>
<td>Low - medium</td>
<td>High</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>DOWNLOAD Method</th>
<th>Low tech</th>
<th>Intermediate</th>
<th>High tech</th>
</tr>
</thead>
<tbody>
<tr>
<td>Development</td>
<td>Simple</td>
<td>Simple</td>
<td>Simple</td>
</tr>
<tr>
<td>Production Costs</td>
<td>Low</td>
<td>Low</td>
<td>Low</td>
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</tbody>
</table>
### Features and Functions: Phase 1 - 3:

<table>
<thead>
<tr>
<th>Features</th>
<th>Functions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Web User Interface (GUI)</td>
<td>Menu to navigate reports, drop-down list to select data</td>
</tr>
<tr>
<td>Report tool</td>
<td>Enter data into SOER geodatabase</td>
</tr>
<tr>
<td>Report template</td>
<td>Edit and creates a SOE report</td>
</tr>
<tr>
<td>Charts</td>
<td>Select bar or pie chart to display data</td>
</tr>
<tr>
<td>Export tool</td>
<td>Share information: Shapefile, WMS format</td>
</tr>
<tr>
<td>Security</td>
<td>Active Directory &amp; ArcGIS Server SOM for user administration</td>
</tr>
<tr>
<td>National data template</td>
<td>Update and modify SOE data template</td>
</tr>
<tr>
<td>National report template</td>
<td>Update and modify SOE report template</td>
</tr>
<tr>
<td>Data administration</td>
<td>Tick box to publish data to web site</td>
</tr>
<tr>
<td>Improved help system</td>
<td>Step-by-step instruction, website &amp; webinar videos</td>
</tr>
<tr>
<td>Regional data template</td>
<td>Create a regional SOE data template</td>
</tr>
<tr>
<td>Regional report template</td>
<td>Create a regional SOE report template</td>
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</table>

### Architecture:

**UNEP SOER-Live:**

**EAD, UAE & GCC:**

<table>
<thead>
<tr>
<th>GIS technology</th>
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</thead>
<tbody>
<tr>
<td>ArcGIS Server technology</td>
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</tr>
<tr>
<td>Map services</td>
<td>Map services</td>
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<tr>
<td>Image services</td>
<td>Image services</td>
</tr>
<tr>
<td>Feature services</td>
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</tr>
<tr>
<td>Geo-processing services</td>
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<tr>
<td>Standards-based services:</td>
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<tr>
<td>REST</td>
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<tr>
<td>OGC services (WMS, WFS)</td>
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</tr>
<tr>
<td>ESRI Geo-portal Server</td>
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**Phase 1 SOER-Live Beta**

- Develop user web interface
- Develop user web forms
- Integrate GIS and forms
- Integrate GIS and forms

**Phase 2 SOER-Live Beta Version 1**

- Determine national data format
- Determine national indicators
- Determine national standards
- Implement WFS Services

**Phase 3 SOER-Live**

- Develop regional web form
- Develop regional template
- Determine regional indicators
- Implement WFS Services
Outcome:

ARAB REGION DATA WORKING GROUP:

Contributes to core set of Environmental Indicators

Web-based system for data & information: access or data sharing

Environmental Sustainability Indicators

Environmental Information Network