Tenth Meeting of the Expert Group on Environment Statistics (EGES), 3, 4, 6 and 10 October

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Statistics and Technology Cluster
The Geo-Statistical Lab (escwa-geostatistics-lab@un.org)
UNESCWA
Driss Afza, Driss.Afza@gopa.de MedstatV
I. UNSD/UNEP Data Collection of Water Waste Statistics to Inform FDES

II. Climate Change Set of Indicators: Complementarity ESCWA Countries and MedStat V Programme

III. New Technologies: Satellite Imagery and Geo-Statistics Information for informing on indicators on FDES (Land cover, Climate Change etc..)

IV. Data Science for estimating data gaps in main SDGS Environment Indicators
I. UNSD/UNEP Data Collection of Water Waste Statistics Inform FDES 2002-2021
Prepared by Christoph Rouhana

<table>
<thead>
<tr>
<th>Country</th>
<th>Type</th>
<th>Availability</th>
<th>Year</th>
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<tbody>
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<td>Bahrain</td>
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<td>Jordan</td>
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</table>
II. Climate Change-Related Statistics in the Arab Region A Proposed Set of Indicators 2017

Building on List of Indicators for the ECE and UNSD

1. Total primary energy supply (SEEA-CF Energy, FDES)
2. Share of fossil fuels in final energy consumption (SEEA-CF Energy, FDES)
3. Public financial support for fossil fuel production and direct consumption (SEEA-CF Energy)
4. Energy intensity of the economy (SDG7.3.1, SEEA-CF Energy, FDES)

1. Change in water use efficiency over time (SDG6.4.1, SEEA-CF 3.5 Physical flow accounts for water, FDES)
2. Proportion of farmland area using sustainable management practices (SDG2.4.1, FDES)
3. Adoption of disaster risk management strategies (SDG1.5.3, SF)

Drivers

Emissions

Climate change-related Indicators for Arab region

Adaptation

Mitigation

1. Temperature departure from normal (FDES)
2. Precipitation departure from normal (FDES)
3. Share of agricultural land affected by drought (SDG15.3.1, FDES)
4. Level of water stress: freshwater withdrawal as a proportion of available freshwater resources (SDG6.4.2, SEEA-CF Water, FDES)
5. Number of deaths and missing persons attributed to hydrometeorological disaster, per 100,000 population (SDG1.5.1, 11.5.1 and 13.1.2, SF, FDES)
6. Occurrence of extreme weather events (FDES)
7. Incidence and distribution of vector-borne and waterborne diseases (FDES)

1. Renewable energy share in final energy consumption (SDG7.2.1, FDES)
2. Investments in energy efficiency and in renewable energies as a proportion of GDP (SEEA-CF Protection expenditures, FDES)
3. Share of energy and transport related taxes as percentage of total taxes and social contributions (SEEA-CF Protection expenditures, FDES)

SURVEY OF ECONOMIC AND SOCIAL DEVELOPMENTS IN THE ARAB REGION 2017-2018
SEEA, Water, Energy, Climate Change and DRR

UNGP LMS: All courses (officialstatistics.org)
SEEA - Central Framework (Arabic)
SEEA - Energy (Arabic)
SEEA - Water (Arabic)

Other Courses

SEEA - In Depth Training on Energy Accounting (Arabic)

SIAP on-line training open to ESCWA member states: Compiling Climate Change Indicators: An Accounting Approach 6 January - 12 February 2021

التدريب الإلكتروني حول الإطار الإحصائي المعنى بالكوارث DRSF
II- Complementarity with Medstat

Prepared by Driss Afza

MEDSTAT V

➢ Duration: 2022 - 2025
➢ Budget: 3 792 924 EUR

Funded by the European Union
Thematic sectors and Horizontal sectors
Each WG led by a lead country and chaired by a lead coordinator

**THEMATIC PRIORITIES**

<table>
<thead>
<tr>
<th>SECTOR</th>
<th>BUSINESS REGISTERS AND STATISTICS, CIRCULAR ECONOMY, INFORMAL ECONOMY</th>
<th>TRADE AND INTERNATIONAL INVESTMENTS</th>
<th>ENERGY, TRANSPORT AND SUSTAINABLE DEVELOPMENT</th>
<th>INCLUSIVENESS: GENDER AND LABOUR STATISTICS</th>
<th>MIGRATION SURVEY AND STATISTICS</th>
<th>CLIMATE ACTION, BIODIVERSITY</th>
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<tbody>
<tr>
<td>Lead country with Lead coordinator and Key experts</td>
<td>Palestine</td>
<td>Morocco</td>
<td>Tunisia</td>
<td>Morocco</td>
<td>Morocco</td>
<td>Egypt</td>
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</table>

The Working group on Climate action and biodiversity sector for MEDSTAT V agreed a baseline questionnaire that was sent to the 9 countries to select the most relevant indicators for them in order to focus the activities on them.

In the questionnaire there were the UNSD/ESCWA indicators (16 Mitigation indicators and 41 Adaptation indicators).

The list of indicators to be worked out during the project will be discussed in the next online working group meeting.

**Horizontal sectors**

Quality, IT and Information systems, Administrative and new sources, Communication, and HR management
III. New Technologies: Satellite Imagery and Geospatial Information Use in official Statistics on Climate Change and Environment Statistics

- Google Earth Engine Project with Egypt on Monitoring Disasters on Land Use in Egypt 2020-2022

- ESCWA Geo Statistics Lab: 2022- Current

Component 1: Environmental Conditions and Quality
subcomponent 1.2, Land cover Ecosystems and Biodiversity

Topic 1.2.1 Land cover
Area of land cover By location. By type of land cover (e.g., artificial surfaces including urban and associated areas; herbaceous crops; woody crops; multiple or layered crops; grassland; tree covered areas; mangroves; shrub covered areas; shrubs and/or herbaceous vegetation, aquatic or regularly flooded; sparsely natural vegetated areas; terrestrial barren land; permanent snow and glaciers; inland water bodies; and coastal water bodies and inter-tidal areas) at national (Arab Countries) and subnational by administrative boundaries.

Topic 1.2.2: Ecosystems and biodiversity
d. Protected areas Total, terrestrial and marine (number and area)

Topic 1.2.3: Forests
1.2.3.a. Forest area: Total and By forest type (Natural, Planted Protected forest area Forest area affected by fire)

Component 1: Environmental Conditions and Quality
Sub-component 1.1: Physical Conditions
Topic 1.1.4: Soil characteristics
1.1.4.b. Soil degradation
1.1.4.b.1. Area affected by soil erosion

Component 5: Human Settlements and Environmental Health,
Sub-component 5.1: Human Settlements,
Topic 5.1.5: Environmental concerns specific to urban settlements
5.1.5.f. Extent of roadways
Thank you