

Environment and Water Sections- ESCWA ESIS Database

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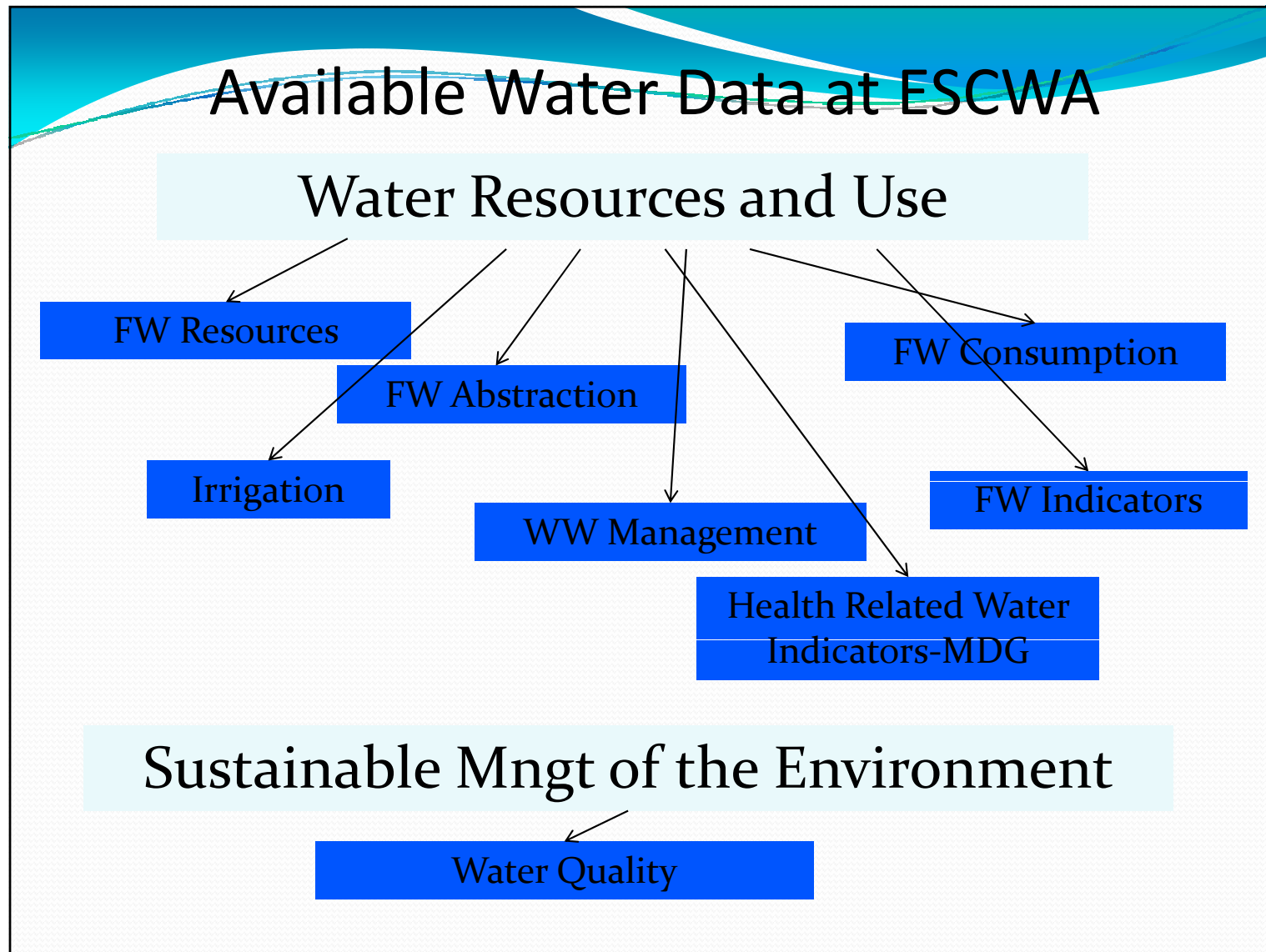
Statistics Division, ESCWA

**Training on Environment Statistics and
Accounts**

**21-24 June 2010
Sanaa, Yemen**

Outline

1. Available Water Data at ESCWA 
2. Available Environment Data at ESCWA 
3. Available Yemen Data at ESCWA (Environment and water modules only) 
4. Available Sudan Data at ESCWA (Environment and water modules only) 
5. Data Collection Mechanisms 
6. Complementing data with other sources 
7. Checking for Reliability 
8. International Standards 
9. Disseminating Water Data 



Available Water Data at ESCWA

FW Resources	➔	Precipitation, Reused water, treated WW reuse, desalination (capacity&production), total conventional, total non-conventional...
FW Abstraction	➔	SW, GW and FW abstracted according to ISIC classification of industries. SW, GW and FW abstraction for own use; total losses, purchase of water, tot GW, SW and FW abstracted (gross&net)
FW Supply	➔	FW supplied by water supply industry to industries (ISIC), leakages...
FW Consumption	➔	By HH, Agriculture, forestry and fishing Manufacturing Industry Electricity Industry Other Economic activities

Available Water Data at ESCWA

FW Indicators	➔	Tot conv/c, tot non-conv/c, annual FW resources/c, annual FW withdrawal/c, pop supplied by water supply industry (number and %), desalinated water/c...
WW Mngt	➔	WW collected, WW produced/yr, pop connected to WW collecting system
Irrigation	➔	Irrigation potential, available land for agr. Use, per capita agr. Land, total irrigated land.
Health rel. Ind./MDG	➔	Access to improved drinking water sources (rural, urban, total). Access to improved sanitation (rural, urban, total).

Available Water Data at ESCWA

Water Quality → SW and GW quality (BOD, COD, TDS, DO, FC, conductivity, nitrogen, phosphorous...)

COVERAGE

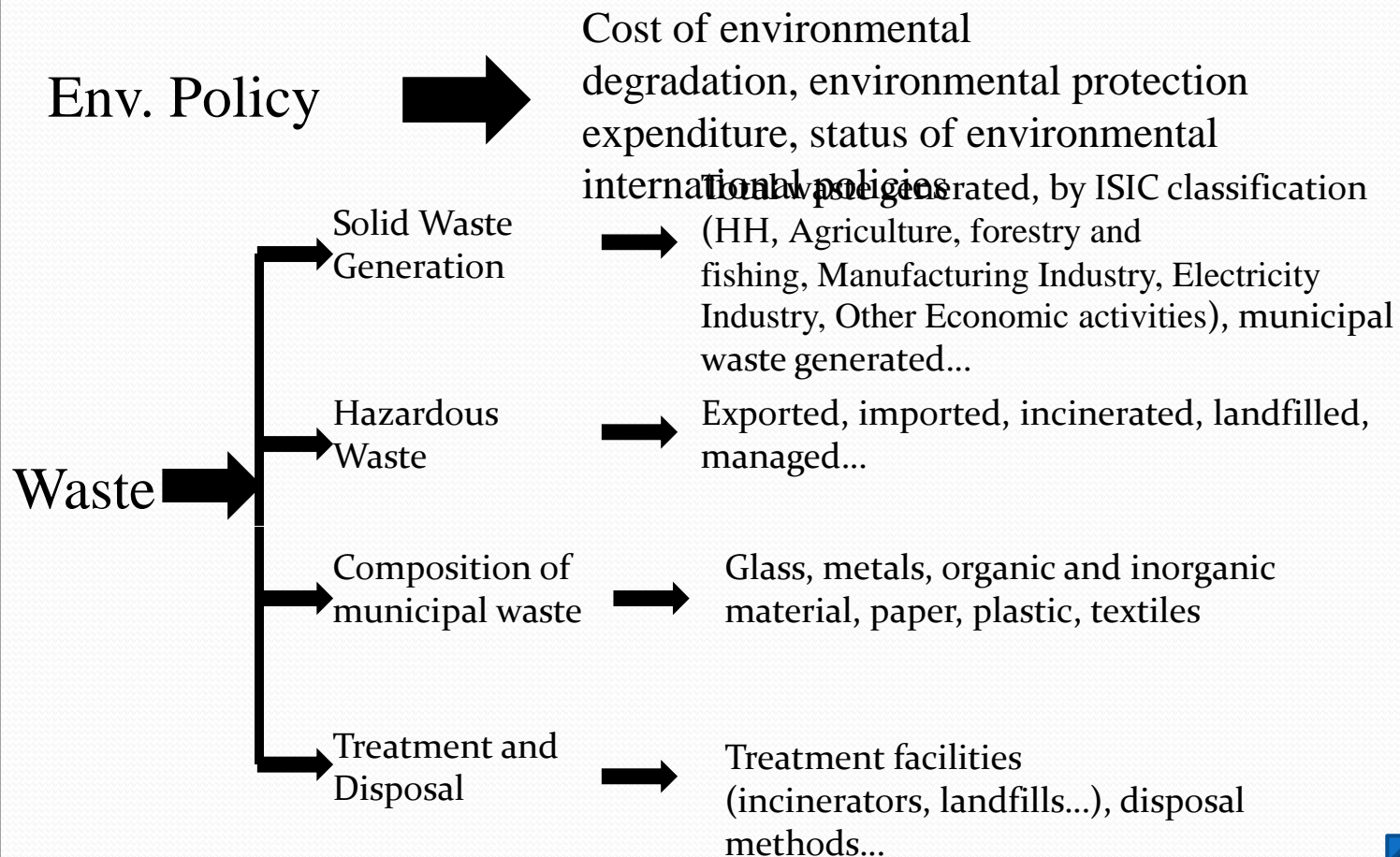
13/14 ESCWA
countries

1995-
2007/2008

Available Environment Data at ESCWA

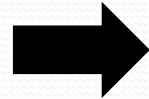
Air	➔	Annual mean concentrations of Sulfur Dioxide, Nitrogen Dioxide, Suspended Particulate Matter (SPM10)...
Biodiversity	➔	Protected areas, number of threatened species (animals and plants), annual deforestation ratio, proportion of land covered by forest...
MDG	➔	Goal 7: Ensure Environmental Sustainability, CO2 Consumption per capita/ per yr, Consumption of Ozone depleting substances...
Marine Ecosystem	➔	Coastal Degradation (fishing intensity), marine pollution, marine production (marine, fish prod), Concentrations of biological and chemical parameters...

Available Environment Data at ESCWA



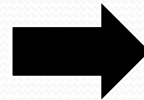
Available Yemen Data at ESCWA

Water



89 Indicators
1990-2007
National and International Sources

Sustainable
Management of the
Environment

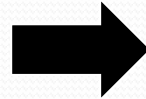


75 Indicators
1990-2007
National and International Sources



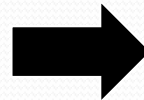
Available Sudan Data at ESCWA

Water



42 Indicators
1995-2007
International Sources

Sustainable
Management of the
Environment



34 Indicators
1990-2007
National and International Sources

Data Collection Mechanism

- UNSD/UNEP Environment Questionnaire 2008
 - Link: <http://unstats.un.org/unsd/environment/questionnaire2008.htm>
 - Main variables: Water and Waste
- ESCWA Water Questionnaire 2004
- Share Results with consent of countries
 - Lighten the burden on countries
- Follow-up from ESCWA's side with countries

Complementing data with other sources

1. UNSD MDG database
2. FAO-AQUASTAT Database
3. UNEP –GEO
4. UN GEMS/Water Programme: Data on the state and trends of global inland water quality
5. IPCC: The Technical Paper on Climate Change and Water, 2008.
6. World Development Indicators (WDI) by WB
7. UNESCO: WWDR
8. UNDP: Human Development Report
9. MEDSTAT Programme
10. Research Papers
11. Regional Organization reports: League of Arab State (LAS), GCC
12. Others: Global Water Intelligence: Water Markets

Checking for Reliability

- Following international standards
- Missing data and estimation
- Errors in reporting
- Agreeing on common value from different departments

International Standards

- The International Recommendations for Water Statistics

<http://unstats.un.org/unsd/envaccounting/irws/gc.asp>

- SEEAW (Interim International standard, approved by the Statistical Commission, 2007)

<http://mdgs.un.org/unsd/envaccounting/seeaw.asp>

- Compilers guide (In preparation)

Disseminating Water Data

- ESIS database (<http://esis.escwa.org.lb/>)
- Compendium of Environment Statistics for the ESCWA region 2007 and 2009 (<http://www.escwa.un.org/information/publications/edit/upload/scu-07-2.pdf>)
- Annual Statistical Abstract



Thank you