



Economic and Social Commission for West Asia
الأمم المتحدة - اللجنة الاقتصادية والاجتماعية لغربي آسيا



Data for All

Session 6.4.2

Frameworks and approaches: Regional

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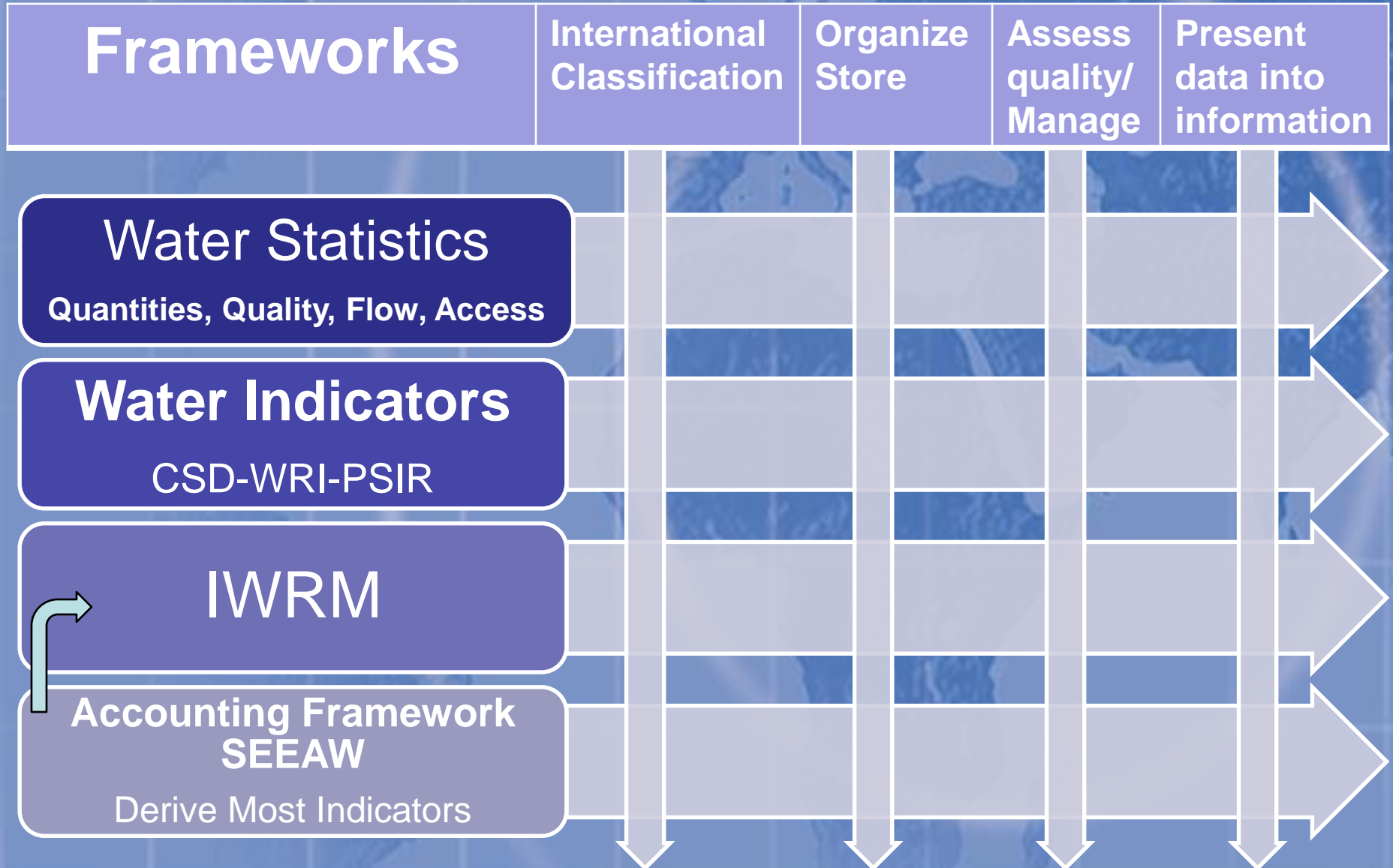
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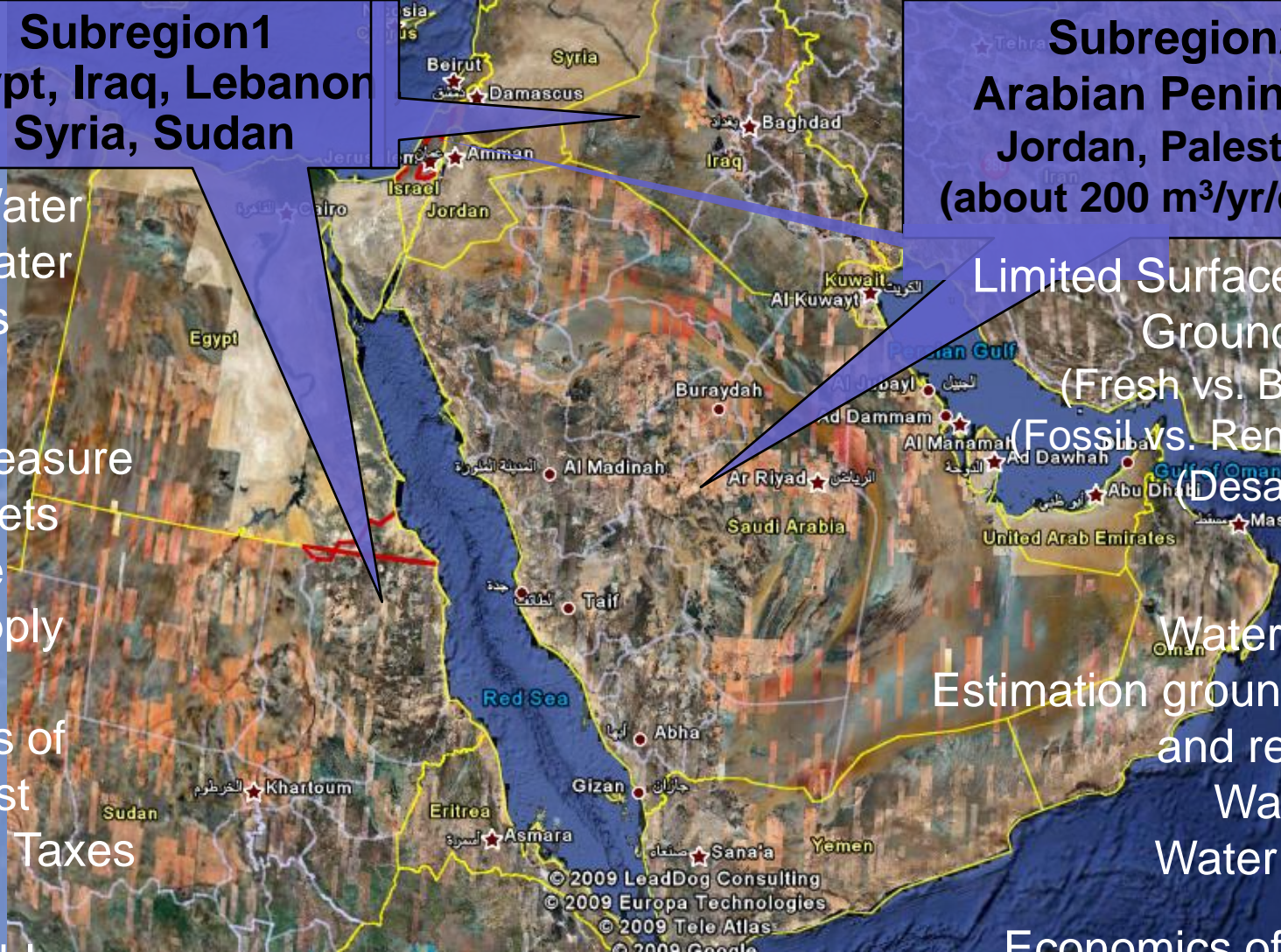
Frameworks, Classifications, Methods 4 Water Data

WATER SCARCITY in the ESCWA region requires data on water
in the most efficient way



Subregion1
Egypt, Iraq, Lebanon
Syria, Sudan

Subregion2
Arabian Peninsula
Jordan, Palestine
(about 200 m³/yr/capita)



Surface Water
Shared Water
Resources



Hard to Measure
Water Assets
Water Use
Water Supply

Economics of
Water: Cost
Subsidies, Taxes



Social Problems

Pilot Water
Accounts
Egypt, Lebanon
1st Step

Limited Surface Water
Ground Water
(Fresh vs. Brackish)
(Fossil vs. Renewable)
(Desalination)

Water Assets
Estimation groundwater,
and recharge
Water Use
Water Supply

Economics of Water:
Cost, Subsidies, Taxes
Market values
Pilot Water Accounts
Jordan, Oman,
Bahrain, Palestine

**SEEA-W for ESCWA
countries
A STEP FORWARD!**



104.5

Losses .5

104



148.5

120.5

Losses 28

5

Losses 1

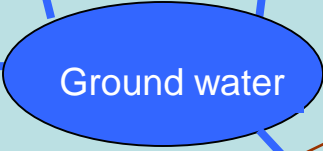
4

5

5

7

128



Domest

7

50

Losses .5

49.5



80



21



Industrial
5-33
41-43

Mean Annual Water Consumption for All Uses (million cubic meters)
الاستهلاك السنوي للمياه لجميع الاستخدامات بالمليون متر مكعب

% use	Grand total			Treated Water			Desalinated Water			GroundWater			التوزيع السنوي للإنتاج Use per Capita X 1000	السنة		
	نسب الاستخدام %	المجموع الكلي			مياه معالجه			مياه تحلية			مياه جوفية					
	صناعي	زراعي	منازل	المجموع	صناعي	زراعي	منازل	المجموع	صناعي	زراعي	منازل	المجموع	صناعي	زراعي	منازل	Year
	INDUSTRIAL	AGRICULTURE	DOMESTIC	TOTAL	INDUSTRIAL	AGRICULTURE	DOMESTIC	TOTAL	INDUSTRIAL	AGRICULTURE	DOMESTIC	TOTAL	INDUSTRIAL	AGRICULTURE	DOMESTIC	
4	52	44	192	7	100	85	0	43	1.9	0.4	41.0	149	5	100	44	1985
4	53	43	207	8	109	90	0	50	2.2	0.5	47.4	157	5	109	42	1986
3	53	43	220	8	118	95	0	44	2.0	0.4	42.2	176	6	117	53	1987
4	51	46	217	8	110	99	2	49	2.2	0.5	47.0	166	6	108	52	1988
3	51	46	230	8	117	105	2	49	2.2	0.5	46.4	178	6	114	58	1989
3	53	44	243	8	128	107	4	54	2.4	0.5	51.7	184	6	123	59	1990
3	53	44	241	8	128	105	6	56	2.5	0.6	53.5	178	5	121	51	1991
3	55	42	262	8	144	109	8	62	2.8	0.6	59.1	192	6	136	50	1992
3	54	43	273	9	148	116	8	58	2.6	0.6	55.7	205	6	139	60	1993
3	57	40	287	9	163	115	11	60	2.7	0.6	57.1	215	6	151	58	1994
3	59	38	292	9	171	112	12	53	2.4	0.5	50.1	227	7	159	62	1995
3	60	37	307	10	183	114	13	59	2.7	0.6	56.7	233	7	169	57	1996
3	60	37	318	10	192	116	13	58	2.6	0.6	55.2	247	7	178	61	1997
3	60	37	322	10	193	119	12	60	2.7	0.6	57.3	250	8	181	62	1998
3	59	38	315	9	185	121	14	61	2.8	0.6	58.5	239	6	170	62	1999
3	56	41	315	10	175	130	15	81	3.7	0.8	77.6	219	6	160	53	2000
3	51	46	301	9	154	138	15	90	4.1	0.9	88.0	195	5	137	62	2001
3	51	46	309	9	158	141	16	91	4.1	0.9	87.3	201	5	142	54	2002
3	50	47	314	9	156	149	19	99	4.4	1.0	94.1	195	5	136	54	2003
3	48	49	322	10	156	156	19	106	4.8	1.1	100.9	190	5	130	55	2004
3	48	49	329	10	158	161	21	110	4.9	1.1	104.6	190	5	128	57	2005

Example BAHRAIN 2005

Abdulla Ali,

Authority of Electricity and Water

From Tables to Diagrams

Presented in Beirut August 2008

Challenges in SEAA-W Implementation in MSs

1. Use of common concepts, definitions and classifications within and across countries
2. Quality of data
3. Established sustainable system for national coordination
4. Need for aggregate Indicator
5. Implementing Water Quality Accounts and Valuation

Technical Problems:

- Water Accounts at the watershed levels (Lebanon, Oman, Egypt)
- Supply by water tankers, cooling water, desalination
- Soil water, brackish water...

ESCWA, UNSD, UNEP, MEDSTAT

- Sharing Water Data (UNSD-UNEP Questionnaire)
- Verifying and checking data, contacting and following-up with countries for clarifications and corrections
- Conducting joint trainings and missions on Water Accounts (training material, bilingual, coordinated assistance)
- Adding countries' concerns and comments in manuals and recommendations
- Web Portal on Environmental Accounting for ESCWA Countries Network, docubase and forum
ESIAP.escwa.org.lb
- Sharing lessons learned with other regions (ECLAC)

Opportunities in SEEAW for ESCWA MSs

WHAT WAS ACCOMPLISHED UNTIL NOW!

1. Countries can use available data and put it into the system allowing gaps to be identified and addressed.
2. Improved data quality by cross-checking the different standard tables
3. Strengthening coordination among national statistical offices and water and environment ministries
4. SEEA-W as agent in creation of regional networks

LONGER TERM APPLICATIONS!

1. Integrating information for water policy and management
2. Link to economic information through SNA
3. Flexibility and expansion to accommodate regional needs (i.e. inclusion of tourism industry, separate identification of oil industries etc)