Knowledge is power

Bilgi Güçtür

(Sir Francis Bacon – 1597)
Knowing is not enough, we must apply the knowledge;

Bilgi yeterli değildir; onu uygulamamız gerekir

(Johann Wolfgang von Goethe – 1809)
Es ist nicht genug zu wissen, man muß es auch anwenden;
es ist nicht genug zu wollen, man muß es auch tun.

Knowing is not enough, we must apply the knowledge;
wanting is not enough, one has to act.

(Johann Wolfgang von Goethe – 1809)
Resolves that:

“All efforts should be undertaken at the national level to increase substantially financial resources for activities related to water-resources assessment … ”

and

“Countries should expand and extend the network of hydrological and meteorological stations, taking a long-term view of future needs … To improve the management of water resources, greater knowledge about their quantity and quality is needed. …”
"Wise decision making must be based on sound Knowledge which in turn requires scientific analyses. Science is therefore not a luxury. What is more, it needs adequate data bases in order to draw conclusions."
Fifth World Water Forum

Topic 6.4

Data for all

Herkes için veri
Lead question:

How can we unlock the data treasure chest?
Topic 6.4 Organisers

Arthur Askew
- International Association of Hydrological Sciences (IAHS)

Ivo Havinga and Michael Vardon
- United Nations Statistics Division (UNSD)

Avinash Tyagi and Mohamad Tawfik
- World Meteorological Organization (WMO)
Four sessions

- 6.4.1 - Data needs and acquisition
- 6.4.2 - Data integration and dissemination
- 6.4.3 - Barriers to data availability
- 6.4.4 - Action to ensure data for all
Session 6.4.1

Room 5, Feshane Halic Hall
Friday 20 March, 09:30 – 13:00

Data needs and acquisition

Chaired by Gordon Young
Building the Data Base:

What data should we put in the treasure chest?
Contributors

- Mr Wilhelm Struckmeier (International Association of Hydrogeologists, Germany)
- Mr Stéphane Simonet (World Water Council, France)
- Mr Paul West (The Nature Conservancy & University of Wisconsin, USA)
- Mr LeHuu Ti (UN Economic and Social Commission for Asia and the Pacific, Thailand)
- Mr Ünal Sorman (Middle East Technical University, Turkey)
- Mr Basanta Shrestha (International Centre for Integrated Mountain Development, Nepal)
- Mr Martin Schinnerl (Ott Messtechnik GmbH & Co, Germany)
- Mr Ian Cluckie (Swansea University, UK)
- Mr Pradeep Aggarwal (International Atomic Energy Agency, Austria)
- Ms Sara Ahmed (Gender and Water Alliance, India)
Session 6.4.2

Room 5, Feshane Halic Hall
Friday 20 March, 14:30 – 19:00

Data integration and dissemination

Chaired by
Mr. Ivo Havinga,
United Nations Statistics Division
Mr. José Luis Luege Tamargo
National Water Commission, Mexico
How do we convert data into usable information?

- Is the SEEA-Water a step forward in meeting the demand for integration information needed for water policy and management?
- How can the use of common concepts, definitions and classifications be encouraged?
- How do we establish best practices for data collection and management (including data integration, storage, access and dissemination)?
Contributors

Mr. Roberto Lenton. (Global Water Partnership and Water Supply and Sanitation Collaborative Council)

Mr. Pasquale Steduto (Food and Agricultural Organisation, Chair UN Water)

Mr. Mitsumasa Okada (Water Environment Partnership Asia, Ministry of Environment, Japan)

Mr. Rob Vertessy (Bureau of Meteorology, Australia)

Mr. Olcay Ünver (World Water Assessment Programme)

Ms. Wafa Aboul Hosn (Economic and Social Commission for West Asia)

Mr. Guozhi Du (Ministry of Water Resources, China)

Mr. Mauricio Cezar Rebello Cordeiro (National Water Agency, Brazil)

Mr. Mick Wilson (United Nations Environment Program)

Ms. Sabrina Barker (GEMS/Water)

Beate Werner (European Environment Agency)

Mr. Michael Nagy (Umweltbundesamt, Austria)

Mr. Seppo Rekolainen, (SKYE, Finland)

Ms. Ghalia Hamamy (Central Administration for Statistics, Lebanon)

Ms Cécile Roddier-Quefelec (Med Stat II)

Mr. UlrichLooper (Global Data Runoff Centre, Institute of Hydrology, Germany)

Ms. Sophie Vermooten (International Groundwater Resources Assessment Centre)
How should we integrate, store access and disseminate data?

- **Data collection**
  - Direct measurement
  - Surveys
  - Remote sensing

- **Water data**
  - Data processing and compilation
    - SEEAW and other frameworks
    - Use of consistent concepts & definitions classifications
    - Spatial references
    - Temporal references
  - Data storage and dissemination
    - Databases and GIS
    - Metadata & data quality
    - Use of internet
    - Audiences for data (indicators, accounts, etc)

- **Water management**
  - State of water / use of water
  - Data analysis, water policies and management
Audiences for information

- Media
- The public
- Politicians

Indicators

Accounting SEEAW

Basic statistics

Researchers

Policy makers
Strategic planners
Session 6.4.2

How do we convert data into usable information?
Session 6.4.3

Room 5, Feshane Halic Hall
Saturday 21 March, 08:30 – 10:30

Barriers to data availability

Chaired by Bruce Stewart
Barriers

- Technical
- Economic
- Legal
- Socio-political
- Ethical
Contributors

Mr Vladimir Smakhtin (International Water Management Institute, Sri Lanka)

Mr Bruce Stewart (World Meterological Organisation)

Mr Andrew Allan (International Water Law Research Institute, UK)

Mr Abu Saleh Khan (Bangladesh)

Dr Magheb Hussein (Iraq)
Session 6.4.4

Room 5, Feshane Halic Hall
Saturday 21 March, 11:00 – 13:00

Action to ensure data for all

Chaired by Mike Muller and Rob Vertessy
What actions can be taken to ensure that we have sufficient data and that we have access to them?
Topic 6.4 Organisers
Thank you

Teşekkür Ederim