

2014 Freshwater Eionet Workshop
**“Developing an efficient and sustainable way forward on the Eionet
water data flows: Review of water data flows and data handling
processes”**
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Linkages between SoE and WFD databases

Cyprus



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Contents – Topics

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Cyprus' water environment and WFD monitoring

- Cyprus' land area: 9.250km²
- About 2.600km of river water bodies
 - About 370km (14% of total length) perennial
 - About 1250km (48%) intermittent
 - About 820km (32%) ephemeral/episodic
 - 160km not accessible to the Republic of Cyprus
- Current (2014) WFD freshwater monitoring network:
 - 52 river stations
 - 7 lake stations
 - 15 water reservoir stations
 - 95 groundwater stations (boreholes and few springs)
- Most WFD freshwater monitoring done by the Water Development Dept.



SoE & WFD dataflows

Responsible organizations

- SoE freshwater dataflows:

| AA | Data flow | Responsible organisation | Ministry |
|----|---|--------------------------------|--|
| 1 | River quality (EWN-1) | Water Development Department | Ministry of Agriculture, Natural Resources and Environment |
| 2 | Lake quality (EWN-2) | | |
| 3 | Groundwater quality (EWN-3) | | |
| 4 | State & Quantity of Water Resources (EWN-4) | | |
| 5a | Emissions quality Air | Department of Labor Inspection | Ministry of Labor, Welfare and Social Insurance |
| 5b | Emissions quality Water and land | Department of Environment | Ministry of Agriculture, Natural Resources and Environment |

- WFD Reporting: Water Development Dept. is responsible for the WFD freshwater reporting



WFD & SoE databases in Cyprus (1)

- **Main water database “Cymos”**
 - Database was established for WFD implementation
 - Maintained by the Water Development Department
 - Used by:
 - Water Development Department (rivers, water reservoirs, lakes)
 - Department of Fisheries & Marine Research (coastal, salt lakes)
 - **The database holds most monitoring data for WFD & SoE**
 - Data on all water categories (rivers, lakes&reservoirs, groundwater, coastal)
 - Water quality data (biological, physico-chemical, priority substances, specific pollutants, ...)
 - Water quantity data (stream flow, water levels, reservoir storage, spring yields, ...)



WFD & SoE databases in Cyprus (2)

- Main water database “Cymos” *cont’d*
 - SoE data is a subset of WFD data
 - All data is stored on station level
 - There is a “national code” (used for SoE) and a “WFD code” which are different
 - Parameter names are in many cases different from the Determinand Names for SoE reporting
 - No data on WFD water body level is stored
 - WFD water body ID is not a required attribute for stations (WB assessment is not done within Cymos)



Legal aspect:

WFD (mandatory) versus SoE (voluntary)

- Cyprus considers WFD reporting more important because it is mandatory
- But: How “voluntary” is SoE reporting in reality? [*the importance of green “smileys” vs. red faces*]
- The different “environments” of WFD and SoE reporting:
 - WFD reporting: It is part of the large exercise of RBMP compilation
 - SoE reporting stands alone as an “obligation” of its own
- Cyprus considers it important to achieve “green faces” within the limitations of its resources
- Dataflow may be adjusted according to scoring criteria



Thank you for your attention



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