



Hands-on training overview – Workgroup C: IT support and water information system (WIS)

The hands-on training is a direct cooperation between the [EEA](#) and its topic centre [ETC/ICM](#) experts in the thematic area of water and national experts of beneficiary country. It provides an exchange of know-how to all participants through exploration and application of concrete data, methods and tools for achieving the outputs of the project: (a) production of regionally comparable [water quality and quantity indicators](#) and (b) establishment and use of national water information system for promoting [SEIS principles](#).

While Workgroups A and B focus on production of indicators, **Workgroup C** works on IT support and WIS and is established with the following goals:

GOALS

- support Workgroup A (Water Quality) in data processing and publishing;
- understand the elements of WIS;
- establish and use the working WIS.

WHAT WE PROVIDE

The five-day training is designed to explore and discuss the technical details through office computers and present the actual examples of the expert's task development. After the training, subsequent support will be available to national experts through the [ENI SEIS Water Helpdesk](#).

The workgroup will focus on **learning by doing – showing concrete steps of the EU practice** to achieve the goals. The experts of the ETC/ICM will not provide any IT developer work (e.g. programming, processing datasets). The actual development of WIS or its elements is expected to take place within the country, in the period following the training.

PARTICIPANTS

National experts of the institutions involved in the project are invited to participate in the training. Depending on the number of involved institutions, two to three IT experts are expected to participate in Workgroup C.

As the focus will be on [data management](#) and information publishing, the training is best suited to **data management experts**. There would be less discussion on institutional hardware infrastructure, however the Workgroup would benefit from the experts' general knowledge of the conditions in the host institution (e.g. which server and database environments are/could be used).

EXPERTS



Miroslav Fanta (miroslav.fanta@cenia.cz)

Expert on database and data models, GIS and data processing



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Expert on indicator datasets, data dissemination and visualisation

The Workgroup C training contains three **learning modules**:

Module	Infrastructure	Action (cooperation)
1. Data delivery, storage and processing	<ul style="list-style-type: none">❖ Data exchange services❖ Database and data model	<ul style="list-style-type: none">❖ Institutional roles❖ Quality assurance/check❖ Composition of indicator dataset
2. Web portal	<ul style="list-style-type: none">❖ Web portal elements❖ Back end (administration pages)❖ Front end (user pages)	<ul style="list-style-type: none">❖ Establishment of web portal❖ Usage of web portal
3. Data dissemination	<ul style="list-style-type: none">❖ Indicator web page	<ul style="list-style-type: none">❖ Composition of indicator elements (tables, charts, maps)

Each module consists of sharing the knowledge on the **infrastructure**, i.e. the technical basis for implementation and application of IT, and **actions (cooperation)** that are executed on existing infrastructure.

Data delivery, storage and processing are directly about supporting the indicator production. The module supports Workgroup A in composing and delivering the water quality indicator data to the host institution; quality-checking the datasets, storing and managing them; and extracting the selected data in a format suitable for indicator assessment. The module also deals with the infrastructure needed to execute these actions: database and its data model, as well as data exchange services (web services, uploading the data etc.).

Web portal is the core component of the WIS for major steps of the indicator production dataflow. The web portal elements are presented on the case of [Water Information System for Europe \(WISE\)](#). Best practices of the portal establishment (if not existing in the country) or improvement (if existing in the country) are proposed and discussed. Furthermore, the experience of using an existing web portal for indicator production is shared.

Data dissemination is publishing different types of products within an indicator. A digital dissemination is best supported by the dedicated indicator web page which includes elements of text, charts and maps. Composition of these elements is discussed and developed together with Workgroup A.