

MODULE IV: WATER MANAGEMENT (EUROPASCHULE GYMNASIUM WESTERSTEDE)

Module IV, “Water Management”, analyses the **vital procurement of drinking water (DW)**, **water as an economic factor (EF)**, and **protection against water (PR)**.

To do so, there are three sets of questions that need to be answered with help of on-site research and external partners. Furthermore, the students are expected to **explain interactions between individual aspects** in order to **critically assess measures taken by the actors in regional water management**.

Since the **development of bilingual teaching material** is one of the project’s priorities, **short explanatory films, diagrams, graphs, photos, and texts that answer the questions** should be produced. Please make sure that we are allowed to incorporate all the information and materials into the app and published them on the website to make them available to other schools.

Finally, **create a presentation** with a meaningful structure and a good layout **that summarises your findings for the international project meeting** in Westerstede in May 2020.

The vital procurement of drinking water

Partners: local waterworks, sewage treatment companies, industrial companies, local authorities, regional planning actors, regional archives

DW.1 What is drinking water?

DW.2 What are your local drinking water quality standards? Are they easily met by your local water supplier?

DW.3 How is drinking water supplied to households in your region? Are there any differences between bigger towns, smaller villages, or isolated settlements?

DW.4 How is water supplied to the industry? Do they receive a different type of water than households? (cf. EF.5)

DW.5 How has the procurement of water in your region changed over time?

DW.6 What kinds of contamination do your regional water suppliers fear most? How is your drinking water protected against such contamination?

DW.7 How is waste water from households collected, cleaned and made available again?

DW.8 How is waste water from industrial complexes collected, cleaned and made available again?

DW.9 How has the treatment of waste water in your region changed over time?



Water as an economic factor

Partners: local authorities, regional planning actors, hydroelectric power stations, industrial companies, farmers, tourism organisations, regional archives

- EF.1 In how far are your regional rivers and lakes used as transport routes. In what way was that different in the past? (cf. module V “Ports”)
- EF.2 How are your regional rivers (and lakes?) used to extract energy? To what extent was that different in the past? (Think of watermills and hydroelectric power stations.)
- EF.3 How have people changed your regional rivers and lakes according to their needs? (Think of dams, embankments, locks, canals, reservoirs, river straightening, and river dredging)
- EF.4 To what extent do farmers in your region use groundwater or water from rivers to irrigate their fields? In how far has that changed over time?
- EF.5 What production processes do companies need water for? How do they get this water? (cf. DW.4)
- EF.6 How does water serve as a recreational area in your region? (cf. module II “Tourism and Sport”)

Protection against water

Partners: local authorities, regional planning actors, sewage treatment companies, regional archives



- PR.1 What flood protection measures have been taken in your region?(Think of rivers, lakes, and the coast.)
- PR.2 How has flood protection developed over time?
- PR.3 What are the measures that will be taken to adapt to effects of the projected climate change? (cf. module III “Environment and Climate Change”)
- PR.4 Against the backdrop of climate change, rainwater drainage seems to be gaining importance. In how far do regional planning actors and local authorities try to adapt to this problem?

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