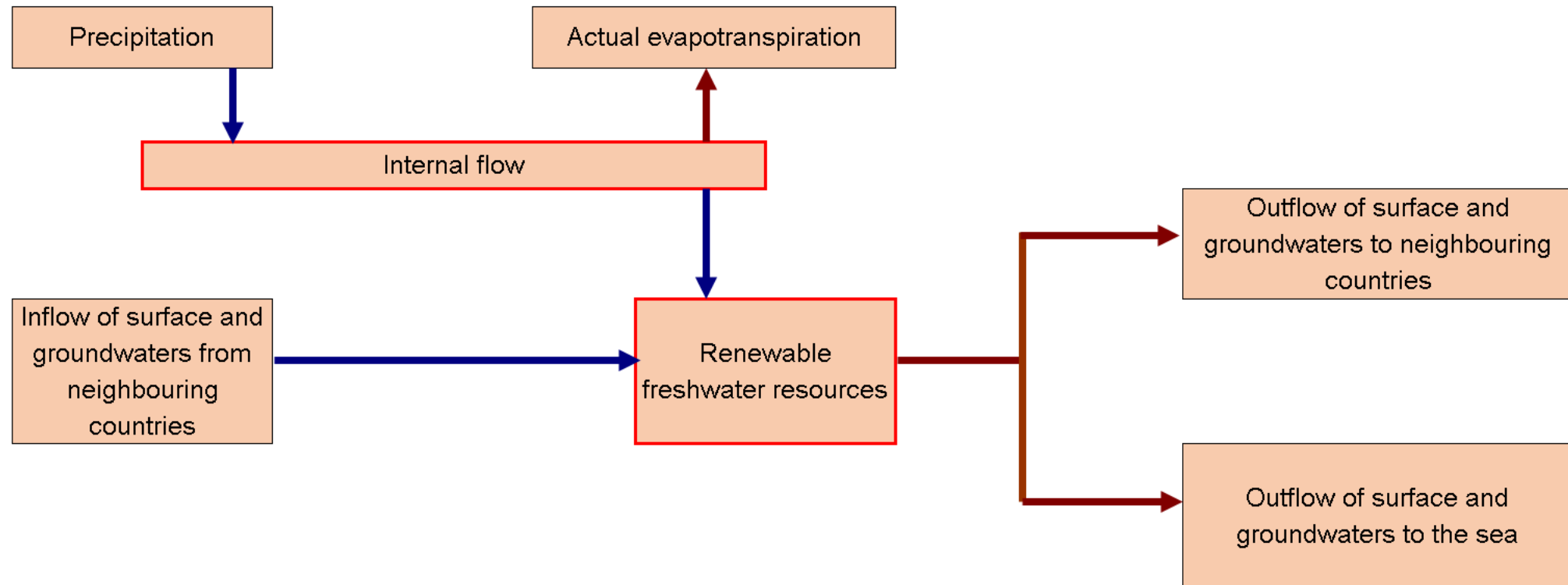


UNECE Water quantity indicators - methodology



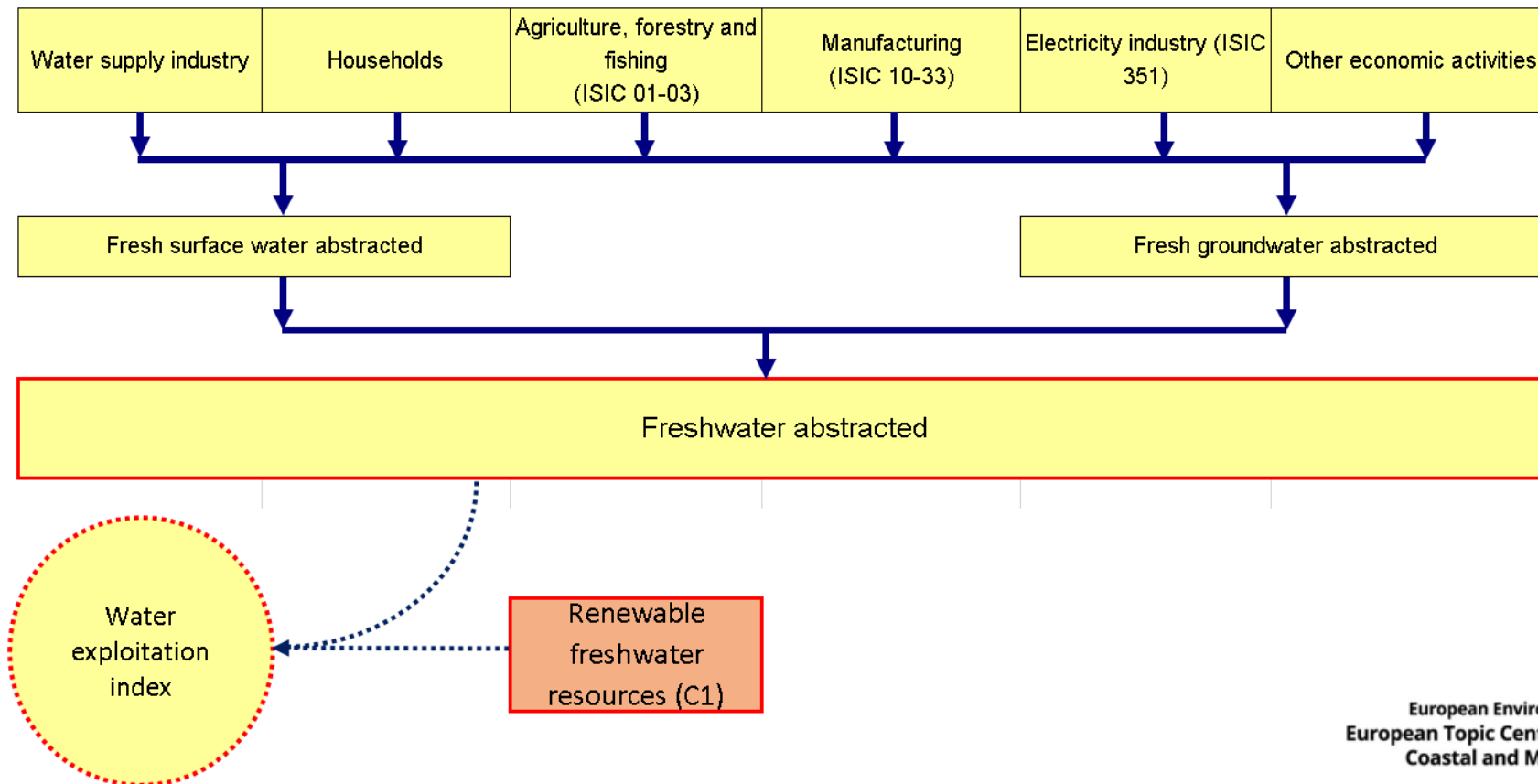
C1. Renewable freshwater resources

[Renewable freshwater resources \(C1\)](#) is a core indicator that provides a measure of the state of renewable freshwater resources in a country, which are of major environmental and economic importance. It consists of internal flow plus inflow of surface water and groundwater from neighbouring countries on a yearly basis and country scale. Link: [Calculation spreadsheet](#)



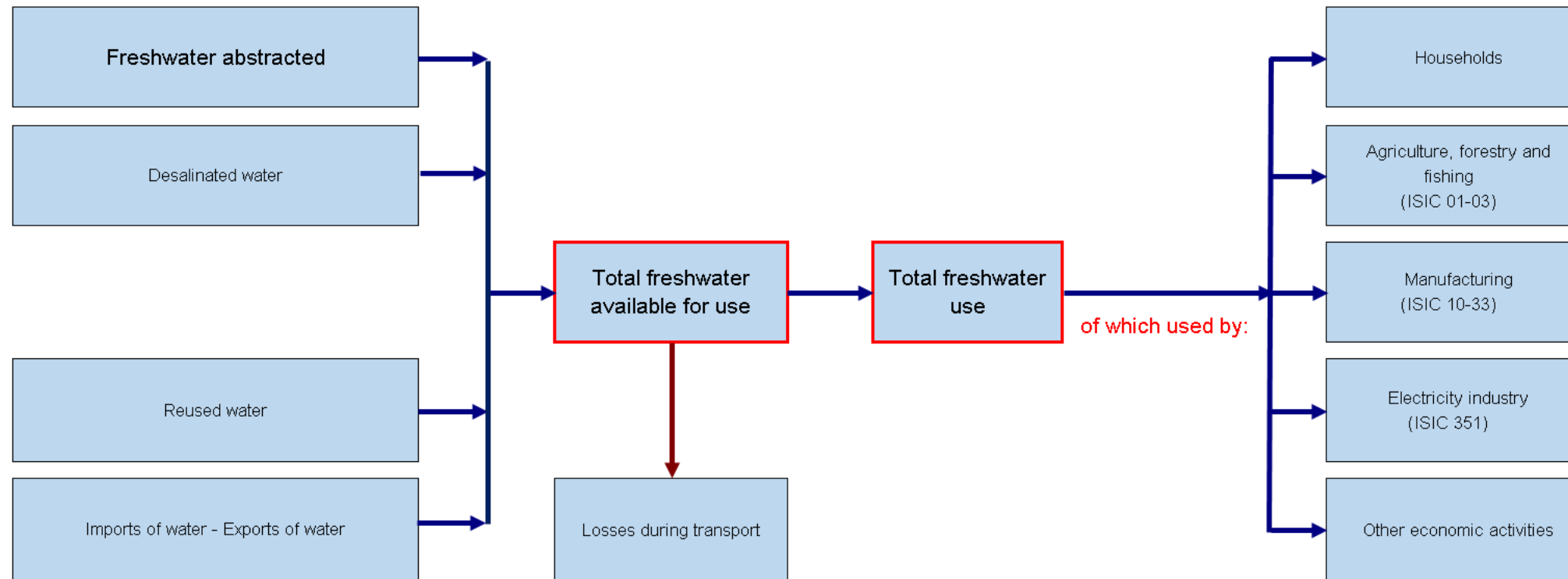
C2. Freshwater abstraction

Freshwater abstraction (C2) is the total volume of freshwater removed from any freshwater source (surface and groundwaters) – provided in total, by economic activity in accordance with the International Standard Industrial Classification of All Economic Activities (ISIC) and as a percentage of renewable freshwater resources (See C1. Renewable freshwater resources) – i.e. as the country's water exploitation index (WEI). Link: [Calculation spreadsheet](#)



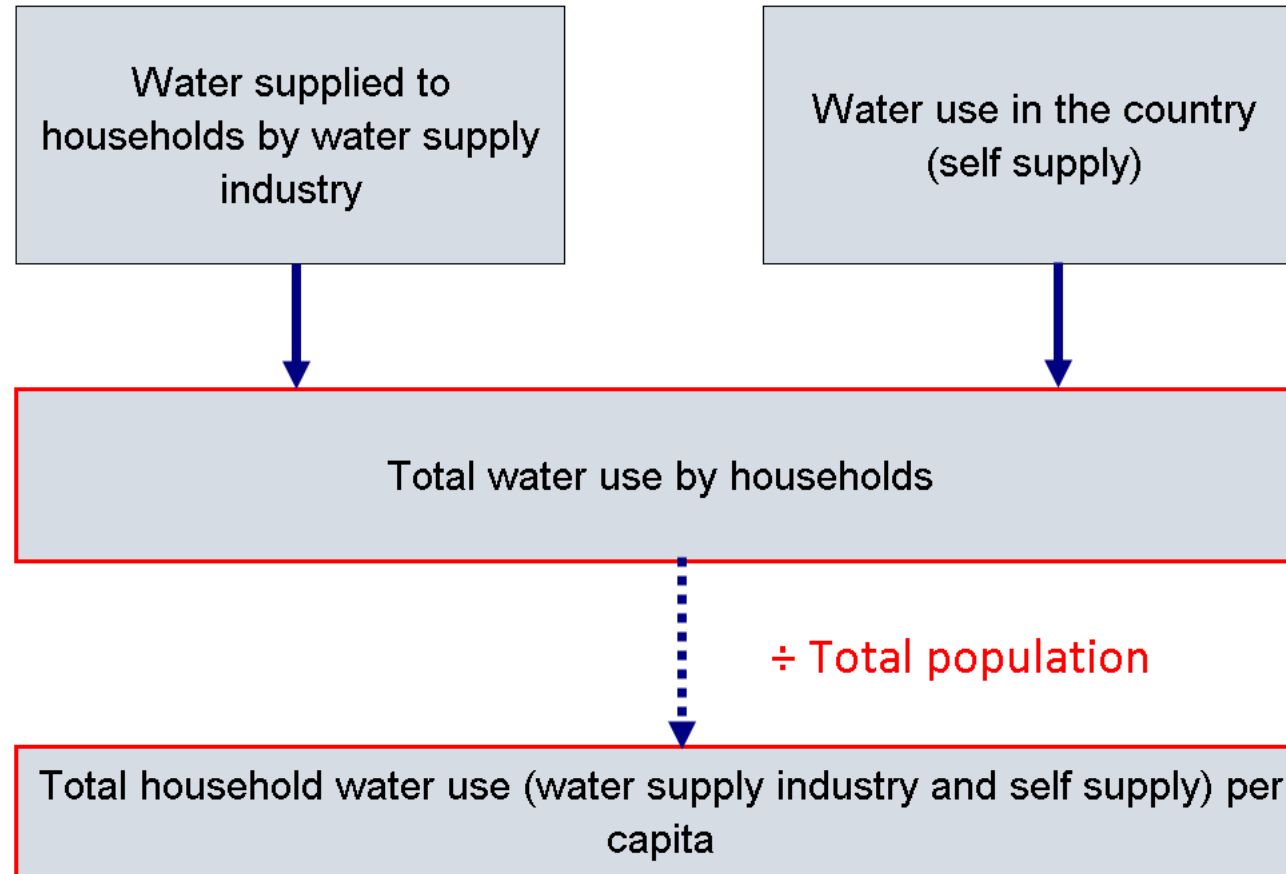
C3. Total water use

Total water use (C3) is an indicator for the availability of freshwater from various sources (freshwater abstracted, desalinated water, reused water, net imports of water) and its use to meet the needs of households, agriculture, industry, and other economic activities. Water use is provided as a total for the whole country and further categorized by economic activity according to the [International Standard Industrial Classification of All Economic Activities \(ISIC\)](#). Link:



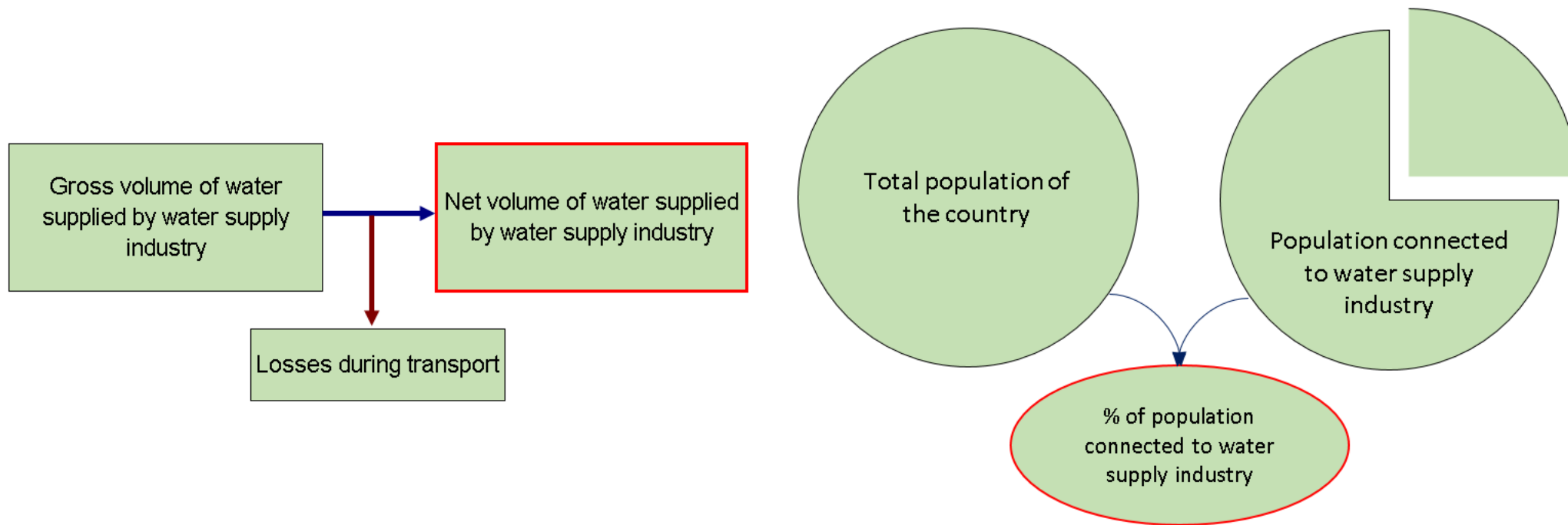
C4. Household water use per capita

[Household water use per capita \(C4\)](#) is an index of the quantity of water used to cover the household and related utility needs of the population through the water supply industry and self-supply, calculated as a total and per capita. Link: [Calculation spreadsheet](#)



C5. Water supply industry and population connected to water supply industry

The [Water supply industry and population connected to water supply industry \(C5\)](#) index represents the total volume of water supplied to the users by the water supply industry – taking into account water losses during transport – and the population connected to the water supply industry, as a total and as a share in the total population. Link: [Calculation spreadsheet](#)



Survey on data catalogues for indicators

Below is a summary of the parameters requested within the “Survey on data catalogues for indicators of water quantity and quality” and potential answers given by the relevant national institutions:

Requested parameter	Answer					
Relevance of Statistic at the National Level	High	Medium	Low	Not Relevant	Not Applicable	
Priority for National Data Collection	High	Medium	Low	Not a priority		
Availability of Statistic at the National Level	Identical		Similar		Available	
Primary Institution(s) Responsible for Collecting Statistic	National statistics office (NSO)		Ministry of Environment or equivalent institution		Other (specify)	
Type of Data Source	Statistical surveys	Administrative records	Remote sensing	Monitoring systems	Scientific research	Special projects
Level of users who request collection/ reporting on this Statistic	Sub-national		National		Regional	International
Periodicity	Annual	Monthly	Daily	Hourly	Other (specify)	
Earliest Year Available	Year					
Latest Year Available	Year					
Format of Statistic	Publication	Excel	Database	Website	Individual records	
Unit of Measurement	Unit					
Main Reasons why Statistic is not Available	Resource constraints	Methodological/Technical difficulty in data collection	Insufficient quality	Inaccessibility	Lack of institutional set-up / coordination	Other (specify)



References

1. Guidelines for the Application of Environmental Indicators (Description, Calculation spreadsheet & Glossary)
<https://www.unece.org/env/indicators.html>
2. Directive 2000/60/EC of the European Parliament and of the Council of 23 October 2000 establishing a framework for Community action in the field of water policy (Water Framework Directive)
http://ec.europa.eu/environment/water/water-framework/index_en.html
3. UNSD/UNEP Questionnaire 2016 on Environment Statistics
<https://unstats.un.org/unsd/envstats/questionnaire>
4. International Standard Industrial Classification of All Economic Activities - UNSD
https://unstats.un.org/unsd/publication/seriesm/seriesm_4rev4e.pdf

