

Create an assessment by clicking on the button below.

# User guide

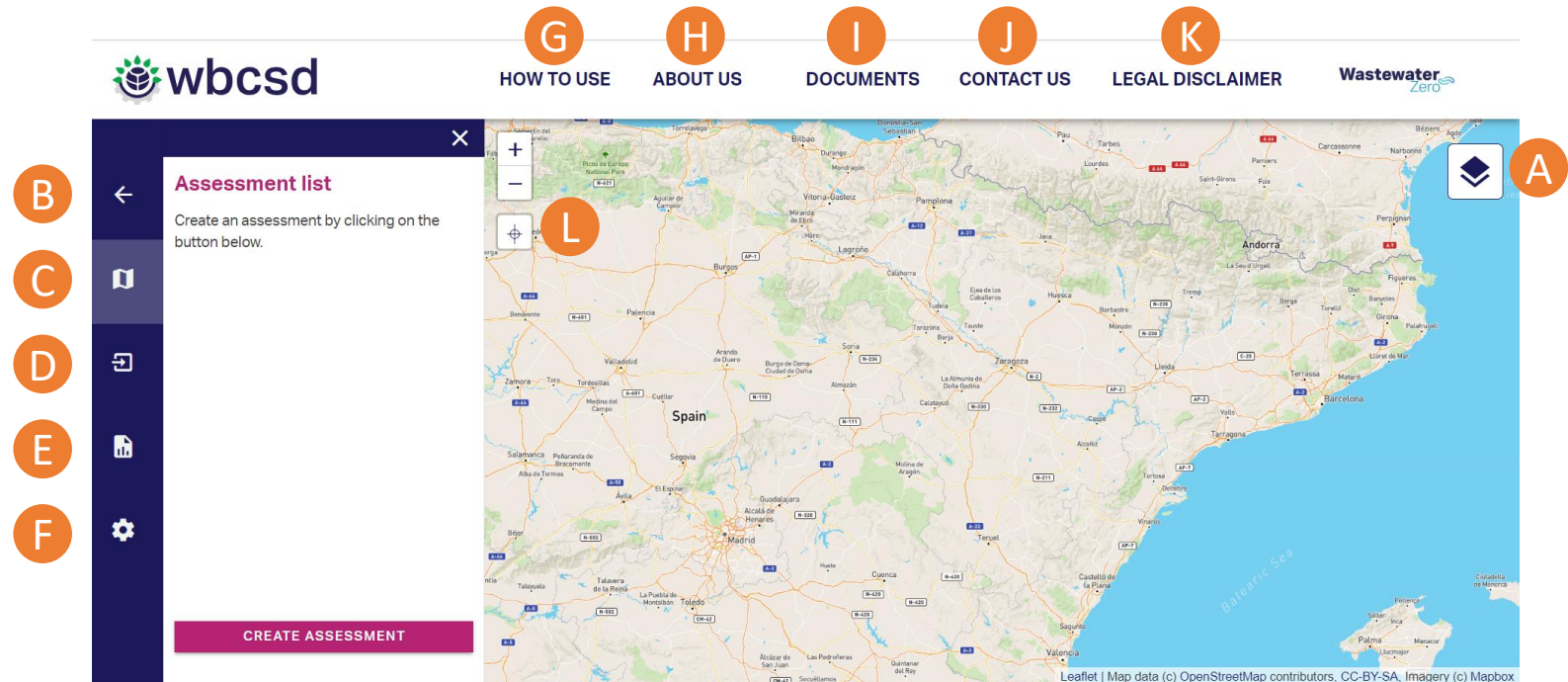
This document is intended to serve as a guide for all WIAT users

## CREATE ASSESSMENT

# Map interface

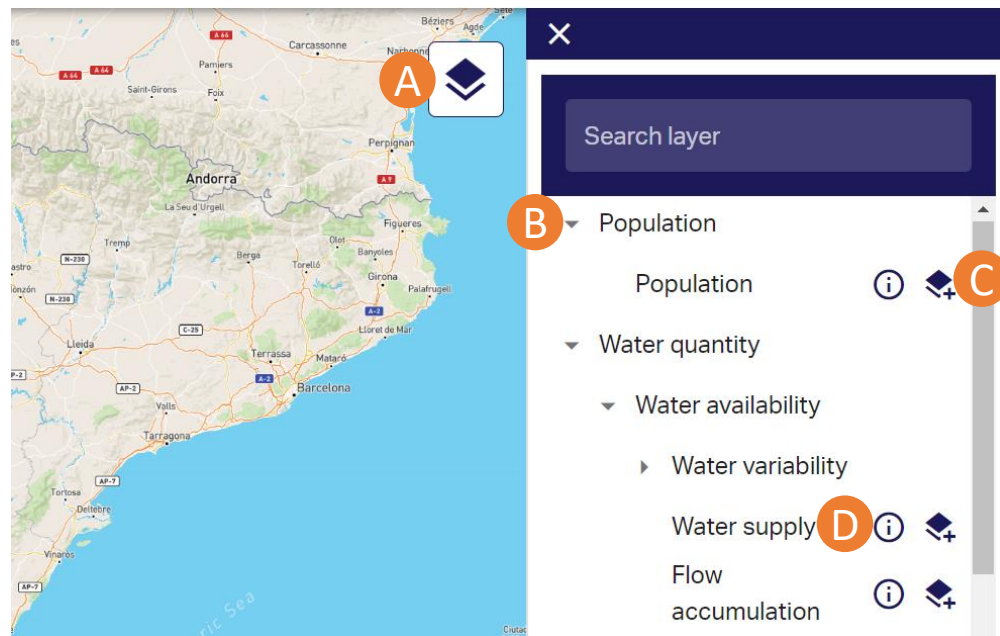
This is the home page of WIAT, where you can see the elements of the Project and the global indicators

- A. Global indicators
- B. Menu
- C. Maps and datasets
- D. Import/export
- E. Report
- F. Parameter configuration
- G. How to use
- H. Documents
- I. Contact us
- J. Legal disclaimer
- K. Search location (by address, decimal degree or in DMS)

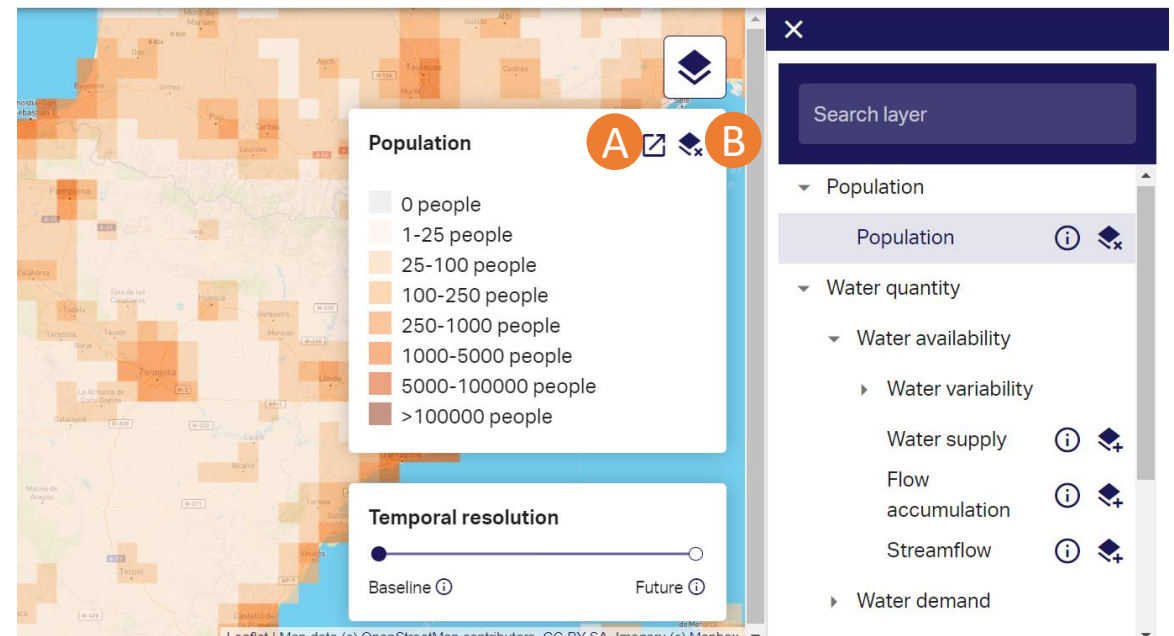


# Global indicators

Clicking on the global indicators icon (A) Will open a new tab on the right side of the page



- A. Global indicator icon, click to open/close the indicators tab
- B. Button to display or minimize the different groups inside the indicator
- C. Button to add the global indicator layer on the map
- D. Button to display the information tab on the layer



- A. Button to go to the source of the information displayed
- B. Button to hide the layer

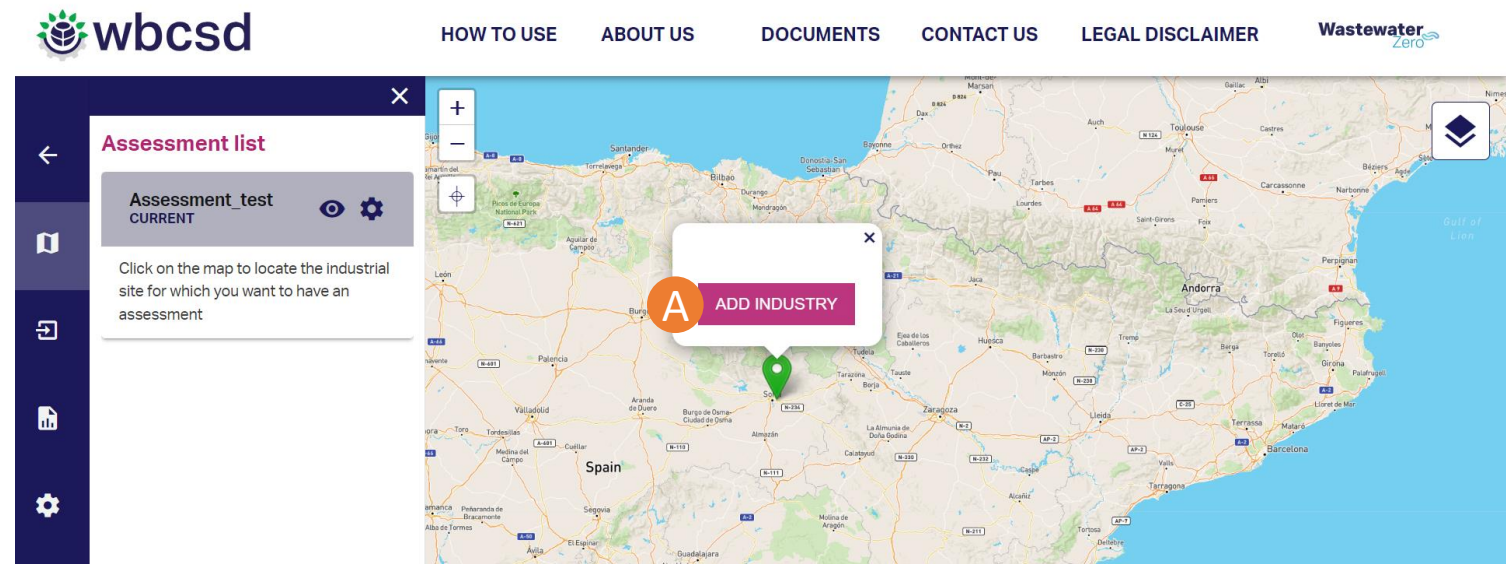
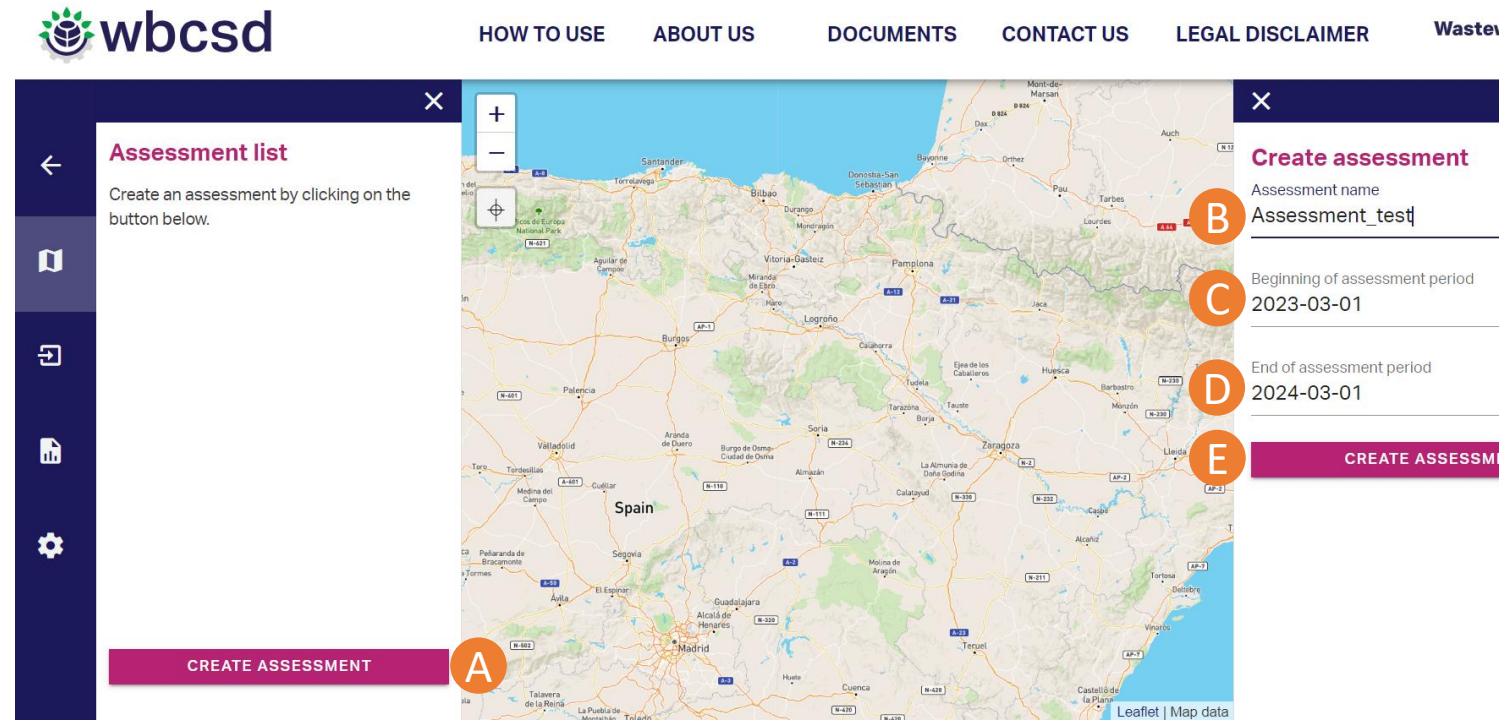


# Create assessment

- A. Button to display the menu to enter assessment information
- B. Box to write the assessment name
- C. Beginning of assessment period
- D. End of assessment period
- E. Button to create assessment with the input information

Once the assessment is created the page asks to locate the industrial site on the map

- A. Button to add the industrial site



# Add industry to assessment

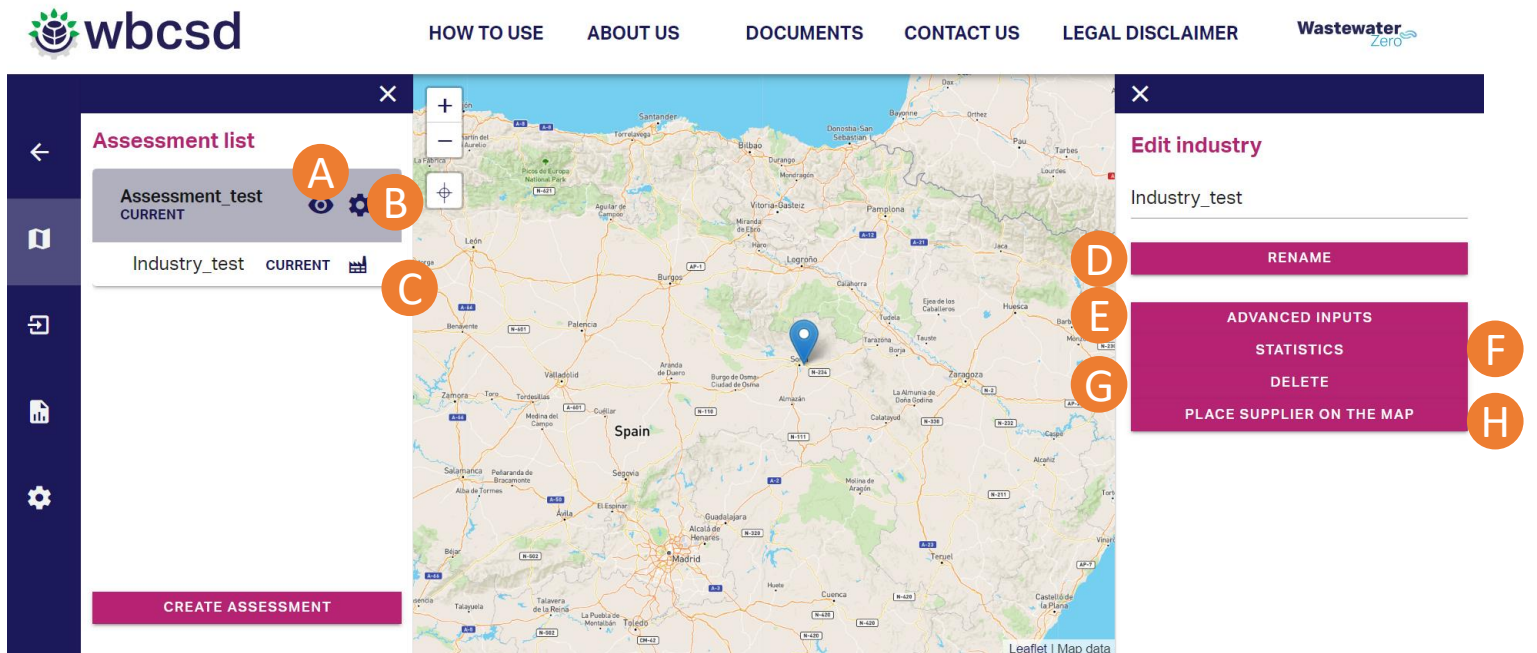
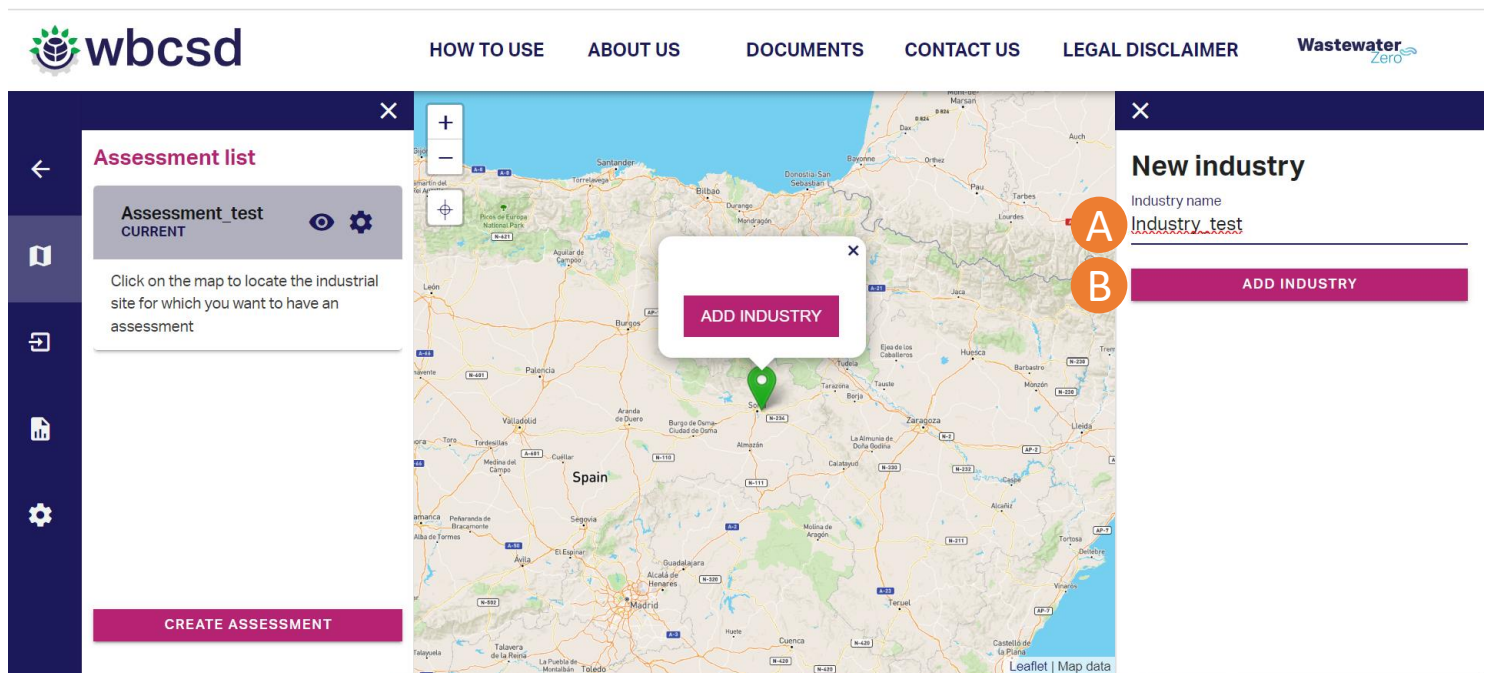
- A. Industry name box
- B. Button to add industry

Once the first industry is located we can modify both the assessment and the industry

- A. Beginning of assessment period
- B. End of assessment period
- C. Button to create assessment with the input information

Once the assessment is created the page asks to locate the industrial site on the map

- A. Button to hide the assessment and its industries
- B. Button to edit the assessment info
- C. Button to select and edit an industry
- D. Button to rename the industry
- E. Button to define advanced inputs for the selected industry
- F. Button to go to the statistics page of the selected industry
- G. Button to delete industry
- H. Button to place supply chain on the map





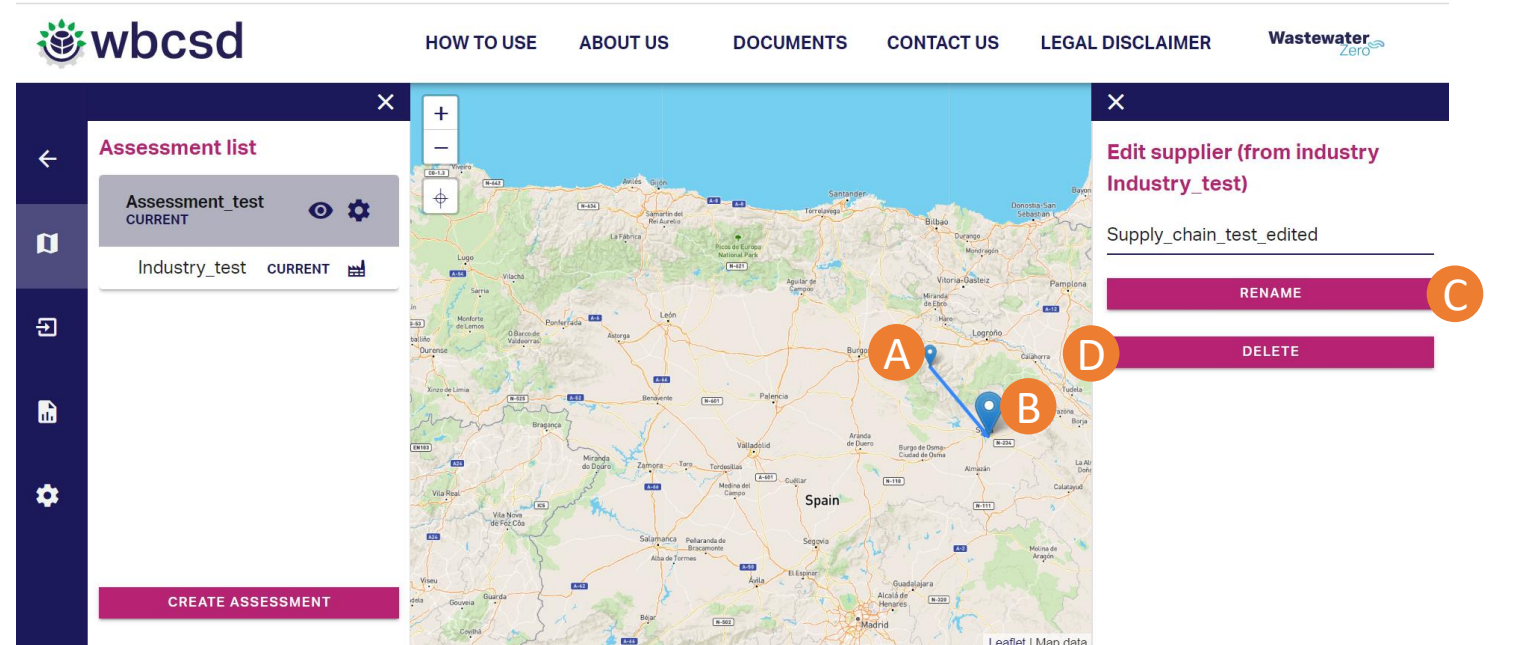
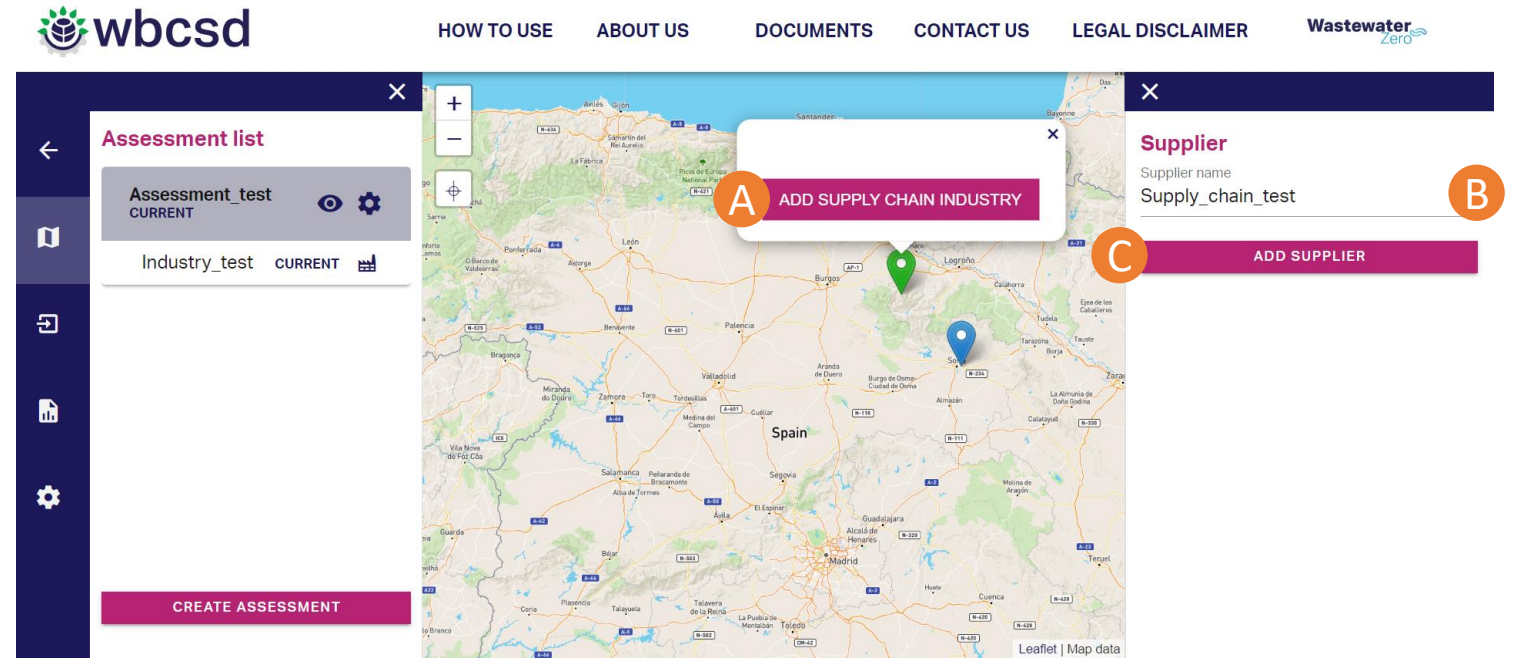
# Add and edit supply chain

To add supply chain industry we have to place it on the map:

- A. Button to add supply chain on the selected point on the map
- B. Box to add supply chain name
- C. Button to add the supply chain

To edit a supply chain we have to select it on the map:

- A. Supply chain we want to edit
- B. Industry to which the supply chain is associated
- C. Button to rename the supply chain
- D. Button to delete the supply chain



# Advanced inputs

- A. The part of the questionnaire that you are currently answering
- B. The upcoming parts of the questionnaire or the ones that are already completed
- C. Dropdown button with multiple options
- D. The asterisk means the input is required
- E. Text box to enter values
- F. Option to choose the estimated value
- G. Toggle and show advanced inputs
- H. Button to save and go to the upcoming parts. It will be disabled if any required inputs are missing

**Industry\_test** ⓘ

1 Water withdrawal and industry **A** — 2 On-site WWTP **B** — 3 Direct discharge **B** — 4 Offsite WWTP **B**

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Type of wastewater treatment

**C** Select Untreated systems ▼

Volume of water treated in the WWTP every day ⓘ\* **D**

1 **E** m3/day Level of certainty User data ▼

Volume of water discharged to water body every day\* **F** ESTIMATION: 0.000E+0

1 m3/day Level of certainty Estimated ▼

Volume of water reused/recycled on the WWTP every day ESTIMATION: 0.000E+0

1 m3/day Level of certainty Modeled ▼

Volume of water from the WWTP also treated in an off-site WWTP every day ESTIMATION: -1.000E+0

0 m3/day Level of certainty No data ▼

**SHOW ADVANCED INPUTS** **G** ▼

**SAVE AND CONTINUE** **H**

# Report: Main page

A

INDUSTRIES

B

EXTERNAL REPORTING

C

EDIT INDUSTRY

D

GLOBAL INDICATORS

E

EXPORT

Selected assessment

Assessment 1

F

\*Click at any row to see advanced information!

Name	Country	Number of suppliers	Impact of industrial wastewater on water quality	Impact of industrial wastewater on water availability	GHG emissions from wastewater treatment	Overall water risk ⓘ
<div>G</div> Ind1	FRA	4	Very high impact	Low impact	4.62e+6	0.955
Ind2	ESP	0	Very high impact	Medium impact	6.84e+7	2.008

- A. Show industries from the current assessment
- B. Show external reporting (GRI and CDP)
- C. Edit industries
- D. Show global indicators
- E. Export report (as PDF)
- F. Dropdown to Select assessment
- G. Industry information (such as the overall water risk)



# Report: Industry

- A. Select to show impact and levers for action data
- B. Show context data
- C. Select to show data on chart format
- D. Dropdown of data groups and subgroups
- E. Select to show data on tabular format
- F. Button to show additional information
- G. Information displayed when clicked the information button

A

IMPACT AND LEVERS FOR ACTION

B

CONTEXT

Water quality

Change in the state of Nature

Increase in toxic units in the receiving water body after discharge

Increase of the concentration of the pollutants in the receiving water body after discharge (with respect to EQS)

Eutrophication potential

Increase in temperature in the receiving water body due industry discharge

Levers for action

Water availability

Change in the state of Nature

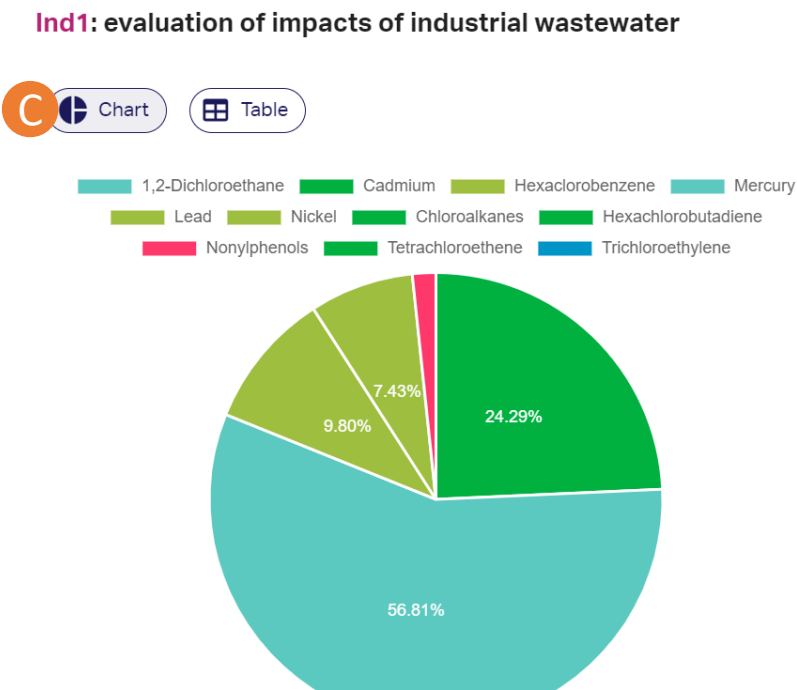
Levers for action

Ind1: evaluation of impacts of industrial wastewater

Chart

Table

	Ind1	Unit	Data type
Total	2.24e-4	TU/day	
1,2-Dichloroethane	0.000	TU/day	Insufficient data
Cadmium	5.43e-5	TU/day	Estimated
Hexachlorobenzene	0.000	TU/day	Insufficient data
Mercury	1.27e-4	TU/day	Estimated
Lead	2.19e-5	TU/day	Estimated
Nickel	1.66e-5	TU/day	Estimated



Ecotoxicity profile for 1,2-Dichloroethane

$$\frac{\sum_{i \in DP} 1,2 - Dichloroethane_{effl_i}}{W_a - W_w + \sum_{i \in DP} W_{effl_i}} \cdot \frac{1}{EC50_{1,2 - Dichloroethane}} \cdot 1000$$

- Where:
- $DP$ : onsite and external WWTP's, and directly discharged water
  - $1,2 - Dichloroethane_{effl}$ : load of 1,2-Dichloroethane of water discharged to the same water body from which it was withdrawn
  - $W_{effl}$ : Amount of water discharged into the same watershed from which it was withdrawn
  - $EC50_{1,2 - Dichloroethane}$ :  $150000 \mu g/L$
  - $W_a$ : amount of water available in the river (streamflow global indicator)
  - $W_w$ : amount of water withdrawn from the river


# Load and save file

- A. Load a JSON with data from another session
- B. Save session as a JSON to use it on another session
- C. Dropdown to select excel type (Industry locations or Advanced inputs)
- D. Download industry excel
- E. Import industry Excel
- F. Download thresholds excel
- G. Import thresholds excel
- H. Replace/Append option (Replace to generate new session with file data, append to add data to the current session)

## Load and save file

**Import session**

☒ Replace ⓘ **H** ☐ Append ⓘ

 File input **A**

**Export session**

File name  
Untitled file

SAVE SESSION ⓘ **B**


## Load from Excel file ⓘ

Excel type

1) Industry locations **C**

2) DOWNLOAD TEMPLATE ⓘ **D**


3) Fill out excel file

4)  Import template **E**

## Upload custom risk thresholds ⓘ

1) DOWNLOAD TEMPLATE ⓘ **F**












2) Fill out Excel file

3)  Import template **G**

# Parameter configuration

## Parameter configuration

For some factors WIAT has a default value assigned based on the literature (for example, for converting a pollutant to Toxic Units), but if you add more contaminants to work with in WIAT, you will have to add these values yourself. For some factors WIAT has a default value assigned based on the literature (for example, for converting a pollutant to Toxic Units), but if you add more contaminants to work with in WIAT, you will have to add these values yourself. **If a value is not set it will be considered as 0.**

Search <span>A</span> 				
<span>B</span> Pollutant	Environmental Quality Standards (mg/L) ⓘ ↓	EC50 (µg/L) ⓘ	Edit	
Nickel	0.02	1000	 <span>C</span>	 <span>D</span>
1,2-Dichloroethane	0.01	150000		
Tetrachloroethene	0.01	3200		
Trichloroethylene	0.01	76000		
Lead	0.0072	440		

- A. Search for text in the table
- B. Pollutant conversion factor into EQS and Toxic Units
- C. Button to edit the conversion proportions
- D. Warning/information button