SVAM.EE

HYDROLOGICAL PARAMETERS CALCULATOR

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WHAT IS SVAM.EE?

A web application for **hydrological engineers, city designers and environmental scientists** who wish to seek and calculate **drainage-related parameters** for better planning of water drainage for both new and existing projects.

WHAT PROBLEMS ARE WE FIXING?

Calculation

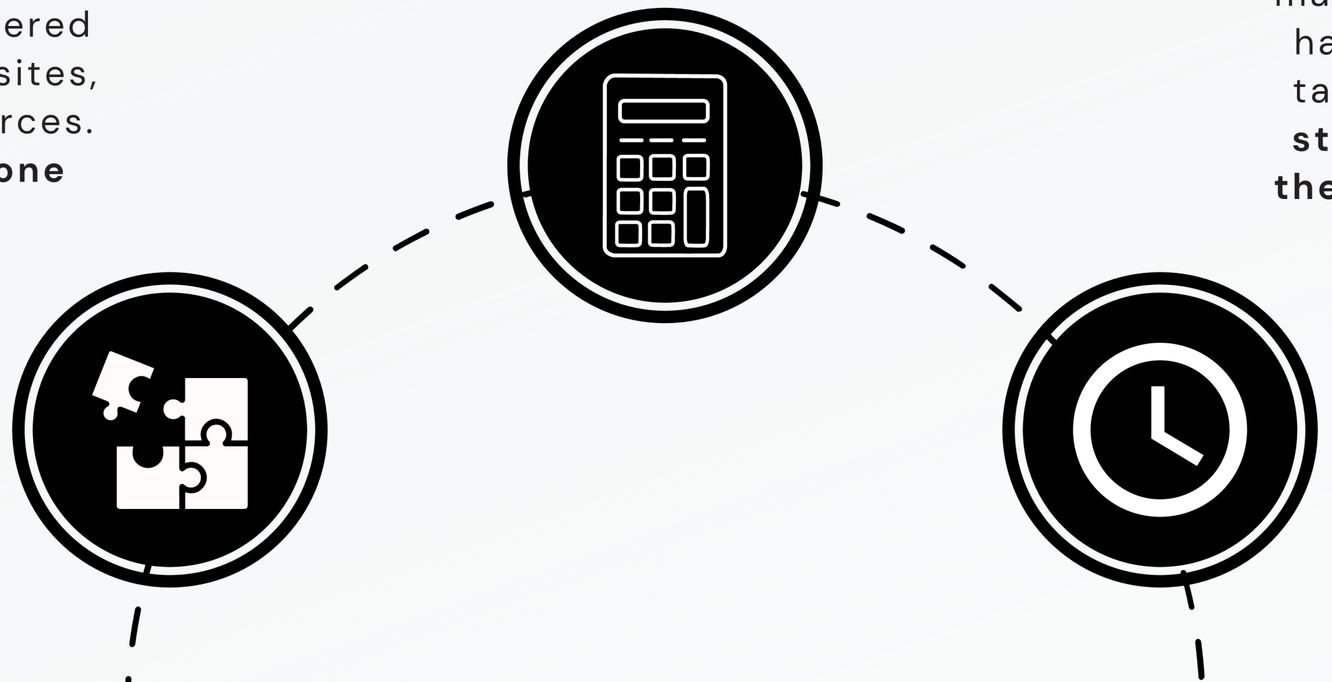
Currently, the calculation involves a lot of summarization and “eye-balling”. **SVAM.ee will do it automatically after selecting a point.**

Scattered Data

Right now, data necessary for hydrological calculations is scattered among multiple websites, databases and resources. **We combine it to one place.**

Time

Searching for data and making calculations by hand based on these take a lot of time. **By streamlining both of these, we are saving a lot of time.**



WORK FLOW

01.1 CHOOSE A SPOT ON THE MAP

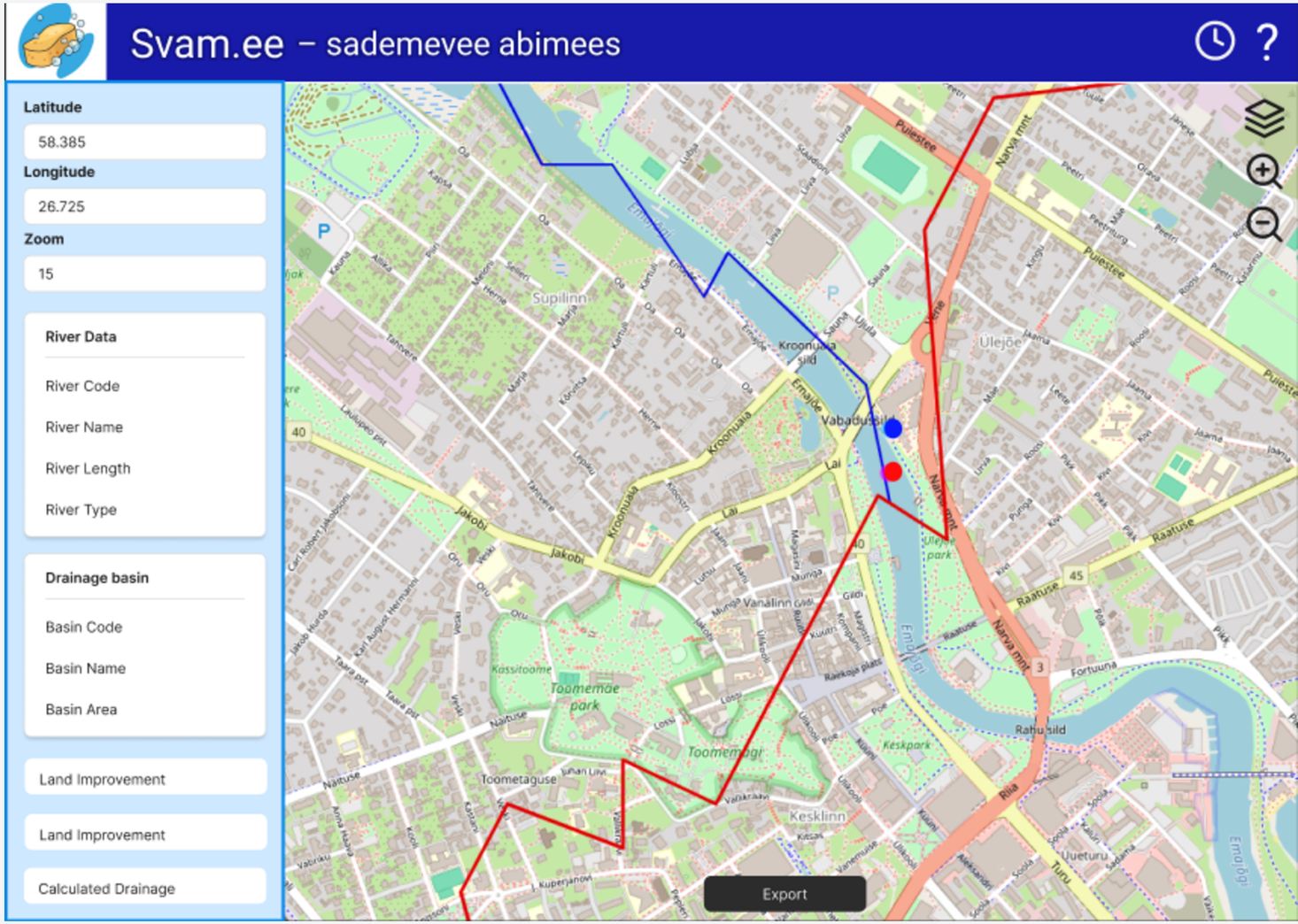
01.2 INSERT COORDINATES

02 EXPLORE VARIOUS LAYERS

03 GET THE DATA

04 CALCULATE THE PARAMETERS

05 EXPORT



DEMO

Use case 2

UC2		**ZoomMap**
Related Requirements		FR5, FR6
Initiating Actor		Hydrological Engineer
Actor's Goal		To see a more detailed view of the map.
Participating Actors		-
Preconditions		The hydrological engineer has access to the map interface.
Postconditions		The map is zoomed and relevant information is displayed.
Flow of Events for Main Success Scenario		
->	**1.**	**Hydrological Engineer** moves the mouse to the desired location.
->	**2.**	**Hydrological Engineer** uses the scroll wheel to zoom in.
<-	**3.**	**System** displays a more detailed version of the map.

Use Case 5

UC5		**DisplayDrainageBasin**
Related Requirements		FR8, FR9, FR10
Initiating Actor		Hydrological Engineer
Actor's Goal		To see the nearest drainage basin and any land improvements to the chosen point.
Participating Actors		-
Preconditions		The hydrological engineer has access to the map interface and has chosen/searched up a point on the map.
Postconditions		The nearest water basin is displayed as an overlay on the map
Flow of Events for Main Success Scenario		
->	**1.**	**Hydrological Engineer** Clicks "confirm point".
<-	**2.**	**System** searches up the local water basin.
<-	**3.**	**System** searches up the land improvement near the chosen point.
<-	**4.**	**System** displays and highlights the local water basin.
<-	**5.**	**System** displays the land improvement if there is any
Flow of Events for Extensions (Alternate Scenarios)		
5a. There is no land improvements made in the chosen point		
<-	**1.**	**System** doesn't display any land improvement
->	**2.**	**Hydrological Engineer** can report it to the website so the problem can be viewed by the developers.
<-	**3.**	**System** will extend the report to the developers and thank the Hydrological Engineer.