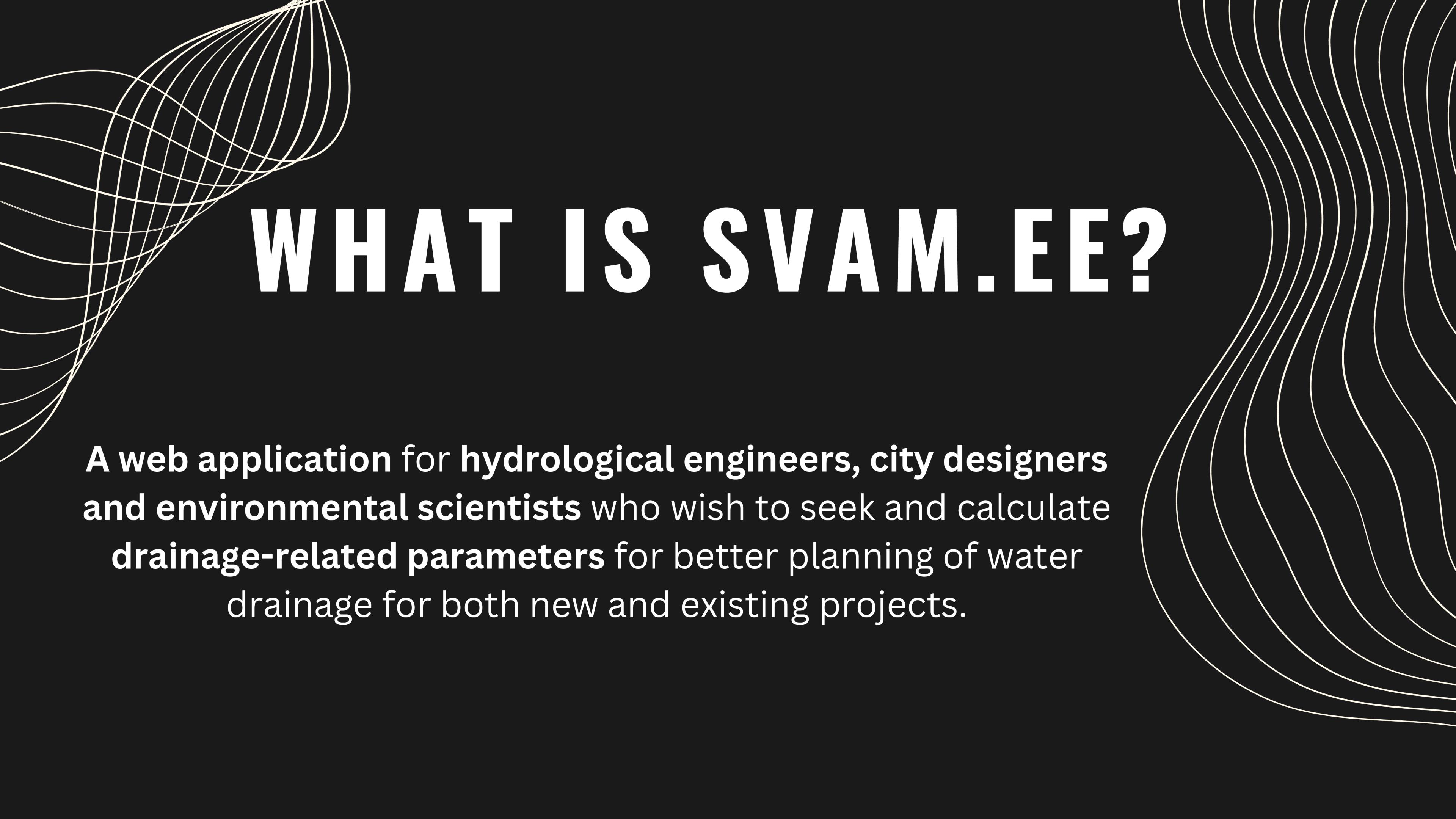


# **SVAM.EE**

**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?

## Scattered Data

Right now, data necessary for hydrological calculations is scattered among multiple websites, databases and resources.

We combine it to one place.

## Calculation

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

## 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

Svam.ee – sademevee abimees

The screenshot shows a map interface titled "Svam.ee – sademevee abimees". On the left, there is a sidebar with input fields for "Latitude" (58.385), "Longitude" (26.725), and "Zoom" (15). Below these are sections for "River Data" (River Code, River Name, River Length, River Type) and "Drainage basin" (Basin Code, Basin Name, Basin Area). There are also two "Land Improvement" sections and a "Calculated Drainage" section. The main area is a map of a city with several blue lines representing rivers and drainage basins. A red polygon highlights a specific area around a bridge labeled "Vabadussild". Two blue dots are placed on the map, one near the bridge and another further upstream. The map includes street names like "Eesti puiestee", "Kroonuaia puiestee", and "Raatuse puiestee", along with green parks and other urban features.

# DEMO

## Use case 2

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

## Use Case 5

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