Discovery Trail USER MANUAL

Discovery Trail is a browser-based educational map application for creating trails and showing user-oriented interactive content in a pre-defined geographical location in various playful ways.



Co-funded by the Erasmus+ Programme of the European Union



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- **Discovery Trail (Avastusrada)** is a browser-based application that helps you create interactive outdoor trails at <u>www.avastusrada.ee</u>, where players can follow marked interactive trails, answer questions, get information, do exercises, and study their surroundings.
- Discovery Trail (Avastusrada) was developed in 2013 for the Environmental Board with a focus on teaching about environmental and sustainability issues in centres of environmental education.
- In 2019, we got it back for Tallinn University for further development.
- It is currently in use in the Erasmus+ KA2 project and in the base research of the TLU research group SEEMIK.
- Created for centres of environmental education, it is now also used by schools and some private companies (e.g. for language learning or tourism purposes).





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- Educators can create trails for everyone (regardless of the topic, age, surroundings, language, etc.) and everyone who has a smartphone or tablet with any operation system, GPS, and mobile data (at least 3G) can follow it.
- The trail point can be an information board or a multiple-choice test, and it can feature open-ended questions or pictures.
- The application allows to integrate the subjects of natural sciences and humanities through practical activities and inquiry-based learning and to enhance general competencies.
- The player has to find their way from one trail point to another, and an interactive map shows the player's location in real time. The task opens only if the player is within the predefined radius from the trail point.
- The players are encouraged to use other applications or information sources for solving the tasks (IT competences).



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- Applications like Discovery Trail are **cheaper** and **more flexible** alternatives for the physical information boards of outdoor learning trails.
- As the digital devices are a part of everyday life of the younger generation, they are **more motivated** to learn outside using applications like Discovery Trail.
- Creating Discovery Trails is easy and it gives the opportunity to **consider** the current **characteristics** of the surroundings and the players.
- With the specific design of the tasks, it is possible to evaluate the player's development and the effectiveness of the trail.









- The educator can create the trail either in the office or directly on the landscape.
- The educator has a **real-time overview** of the progress (safety) of the 'explorers'.
- The educator gets responses in real time, semiautomatic control depending on the task type, it may be already marked as correct/incorrect.
- Pictures, photos, music files, or videos can be used as questions or information.







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How to play Discovery Trail?

Discovery Trail

Smart trails for everyone





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On the opening page of <u>avastusarada.ee</u>, there is a short description, a map with available trails, and links to the FAQ section.



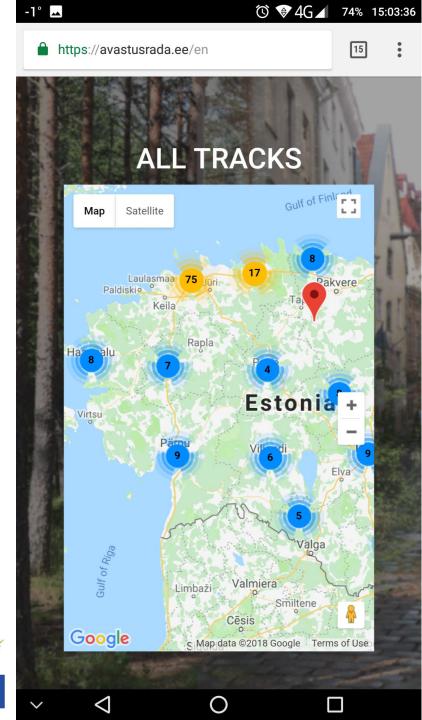
Discovery Trail Systematic use of digital outdoor learning tool

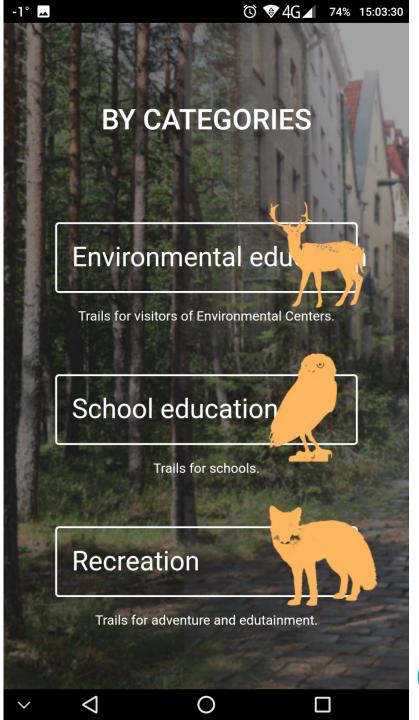
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You can choose between three options: trails for environmental education, school education, or recreational purposes. Players can choose the nearest trail from the map or from the list.



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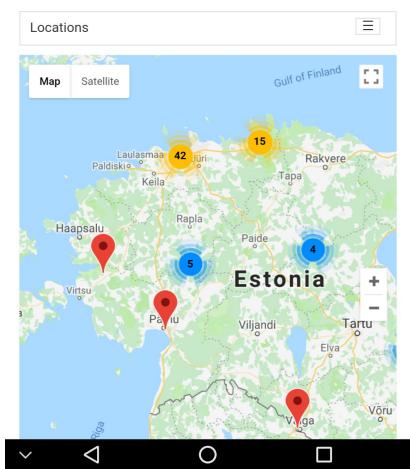
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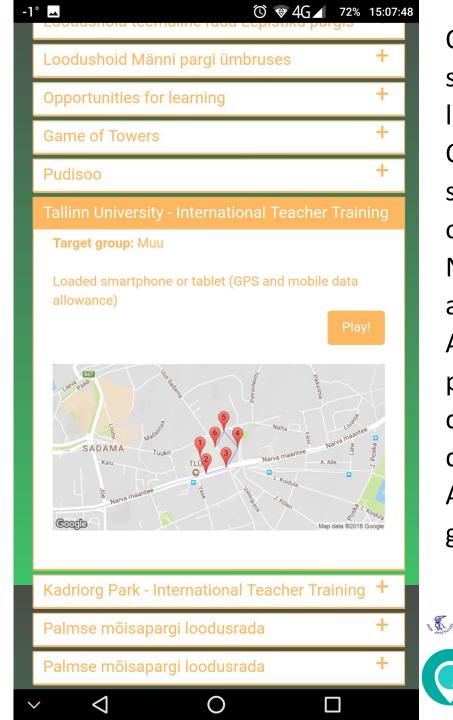


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School education





On the trail information screen, players see the locations of the trail points. On the player registration screen, an unlimited number of players can join the game. Names and email addresses are needed.

All these steps, including the previous ones, can also be done from home using a desktop computer or laptop. After pressing 'Register for game', an email will be sent.

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[™] **4**G **7**2% 15:08:19

Avastusrada - Tallinna Ülikool - Tallinn University -

Enter players names and e-mail addresses. Players will receive link to the game via e-mail.

Jaanus		
jaanus.terasn	naa@tlu.ee	
-		
l ayer 2: Name		

Add more players +

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Register for game

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 \Box



Game instructions Inbox

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Avastusrada 15:06 Hello Jaanus! You have been invited to join game "Game of Towers" To start, o...

\$

Avastusrada to Jaanus 15:08 View details

Hello Jaanus!

You have been invited to join game "Tallinn University - International Teacher Training" To start, open game by clicking on the link or copying it to your browser.

Reply all

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Forward

https://kool.avastusrada.ee/en/play/pl5a9e92c6d3fd3

Avastusrada.ee

Reply

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After clicking the link, a new browser window will open, where the player can see all of the trail points. Red pins represent trail

points, while the green pin represents the player. Questions will open when the player is within the predefined range (which can be changed in the game settings).

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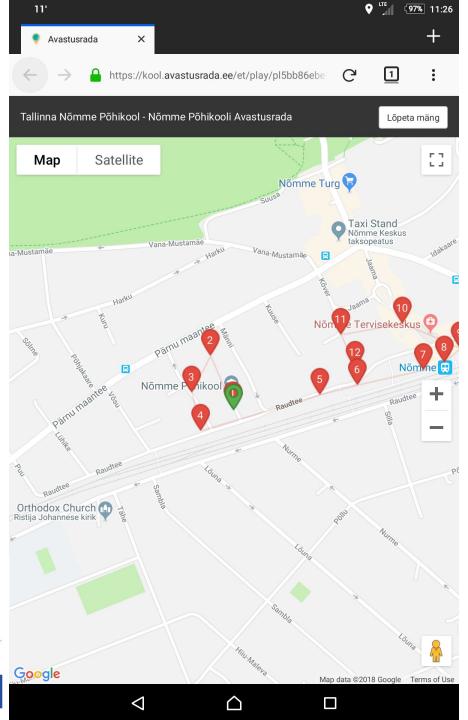
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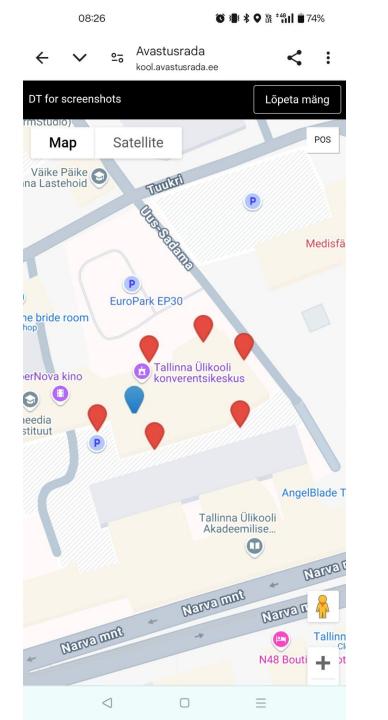
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On the map, players can zoom in and out, use satellite imagery, or even street view (if available) to find the exact location of the trail points.

Avastusrada is not a navigation device; it does not provide directions or voice commands.

It operates as a map, on which players must find their way.

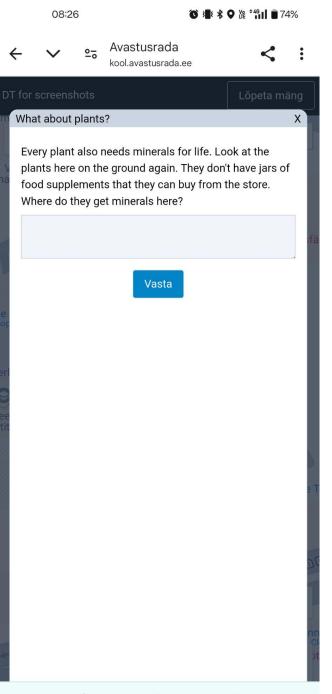
This way, players will learn how to use more classical navigation methods and must be able to read the map to orientate themselves in the landscape.

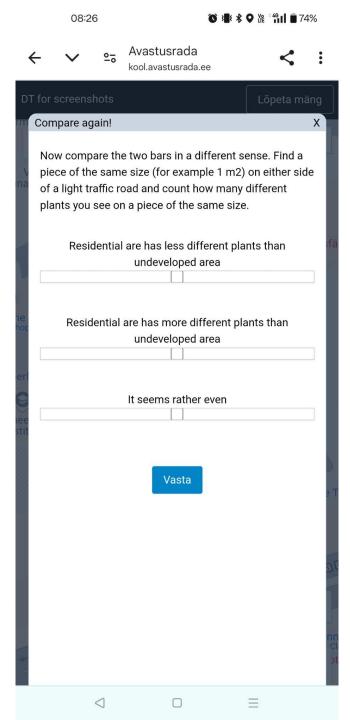








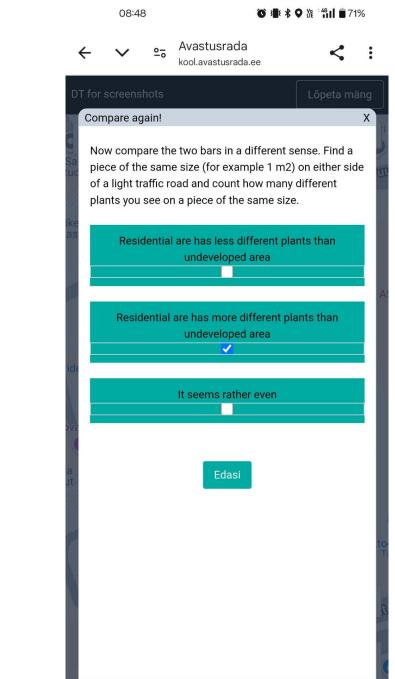




Once the question is answered and submitted, it cannot be changed.

If a trail point is too far away, it cannot be opened.





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Erasmus+ Programme	- * *	
of the European Union	***	

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Natur Erlebnis Park SCIENCE EDUCATION CENTER 08:26 Construction of the trail about Biodiversity is a biological will start your journey towards alvar. An alvar is a biological is a biolog

environment based on a limestone plain with thin or no soil and, as a result, sparse grassland vegetation area. Similarly to what we practiced in the classroom, you have an opportunity to think by yourself, but some questions also require discussions together with a group/pair based on your individual answer. So don't leave your friends too far behind :)

Vasta

It is possible to use pictures in the heading of every question.

Inside the text, it is possible to use video, audio, additional pictures, forms, and so on with the help of embed codes.



Discovery Trail

outdoor learning too

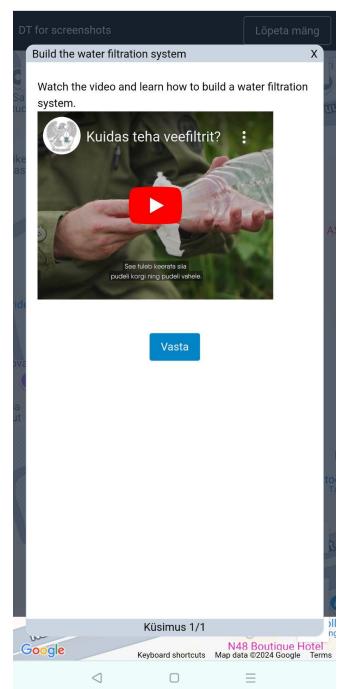
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Tallinn University



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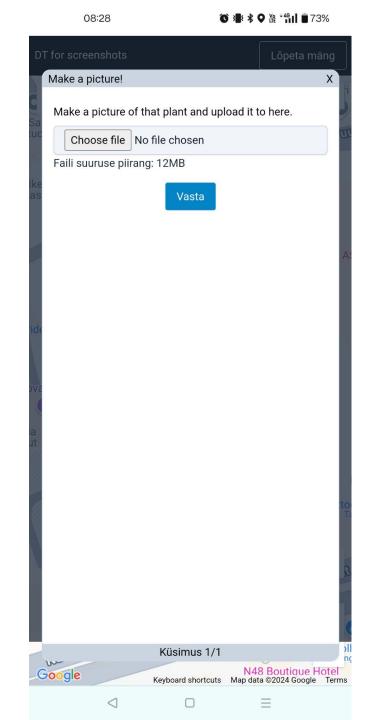
Co-funded by the Erasmus+ Programme of the European Union





08:27

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It is possible to answer with a photo.



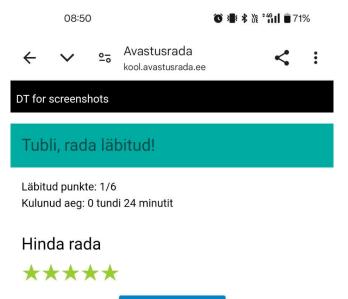
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Tagasi algusesse

When all questions are answered, the player can rate the trail and share it on social media.

After the game, the player will receive a game report by email with all of the questions and answers. TALLINN UNIVERSITY

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0° 🗖 🖻 (t) 😪 3G 🖊 63% 16:20:01 ← Game results - Tallinn University - International 2 Teacher Training Inbox Avastusrada to Jaanus 16:18 View details



1. Welcome to Tallinn University

Tallinn University is the largest university of humanities in Tallinn and the third biggest public university in Estonia. We have more than 9,000 students (with 5.5% of them international), and over 900 employees, including over 400 researchers and lecturers. A parliamentary decision by the Republic of Estonia consolidated several Tallinn universities and institutes into a single institution that resulted in the founding of Tallinn University as a public university on 18 March 2005. However, our roots are much deeper. 1552 A library was created in St. Olaf's Church in Tallinn, which became the first public library in the city of Tallinn. Part of its collection of rarities belongs to the repository of the Tallinn University Academic Library, where it remains today. During our walk we can see several buildings and the variety of our campus. Herein I ask you to take a pictures of most fascinating things and views during your walk and also photos of things that upset you. 3. 3

2.2

1.1

2. Narva street

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Narva Street is one of the biggest street in Tallinn. As Tallinn do not have the main street we let you imagine about Narva street as the main street of Tallinn. Please look around and write down how the street would look like :)

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How to create a Discovery Trail?

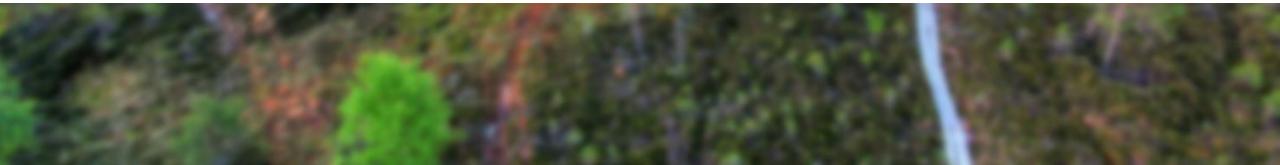
Discovery Trail

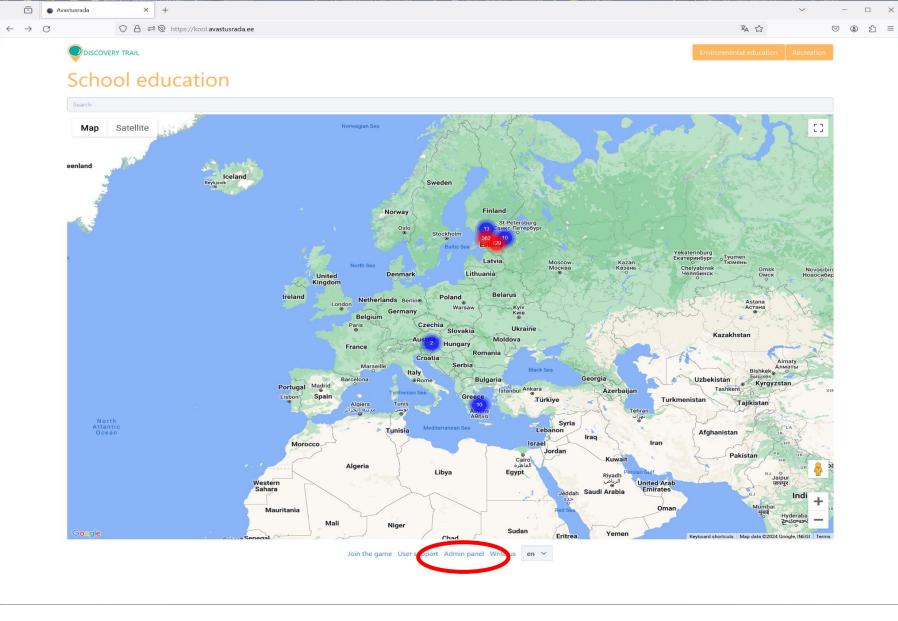
Smart trails for everyone





TALLINNA ÜLIKOOL





The best way to create a new Discovery Trail is to use a computer. A phone screen is too small for to do it conveniently.

First, you need an account. To create one, choose 'Environmental education', 'School education', or 'Recreation'.

In the footer of those pages is the link 'Admin panel'.





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To register, the easiest way is to log in with a Google account. After that, you will have student (player) rights, allowing you to join games.

To obtain teacher rights, you need to contact your local representative or use the 'Write us' link in the footer of the page.



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		Choose track			Join					

If you have teacher's rights, you can choose between two activities:

- Create new track
- Choose track

'Choose track' will show you the list of all trails in the system.











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Untick the box 'Only my maps' to see other trails.









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You can choose from all the trails in the avastusrada.ee environment.

Behind every piece of trail information, you can see three dots.







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Only my maps		✓ search	
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		Copy Play! Demo Edit track Results Delete	
		« 1 »	

After clicking on the dots, a new menu will appear. You can choose between:

- Copy (make your own editable copy)
- **Play** (go and start a new game)
- Demo (play the game in the browser without going out)
- Edit track (make changes, add new points, etc.)
- **Result** (see the results of the played games)

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Delete (delete the trail)







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If you click on the trail name on the list, you will see the trail info and some links under the section 'Action':

- Copy

- Play!

- Demo
- Edit track
- Results

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In addition to that, you can also change the track info by choosing the 'Edit' button.



Discovery Trail

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outdoor learning tool

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In the trail info, you have to fill in several fields and make some choices from the drop-down menus.







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Save					

After filling out the form, click 'Save'. You will be directed to the map view of the trail editor.



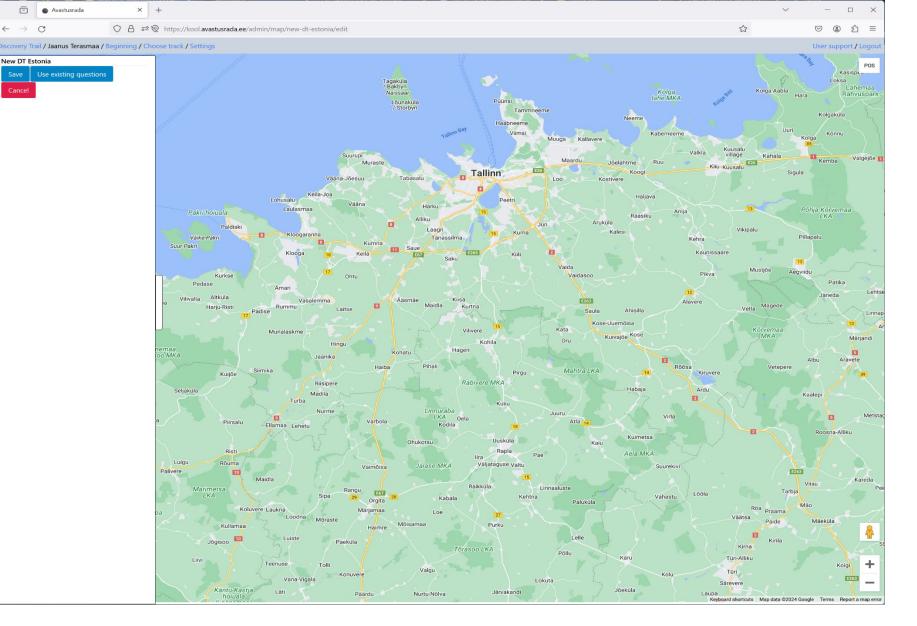




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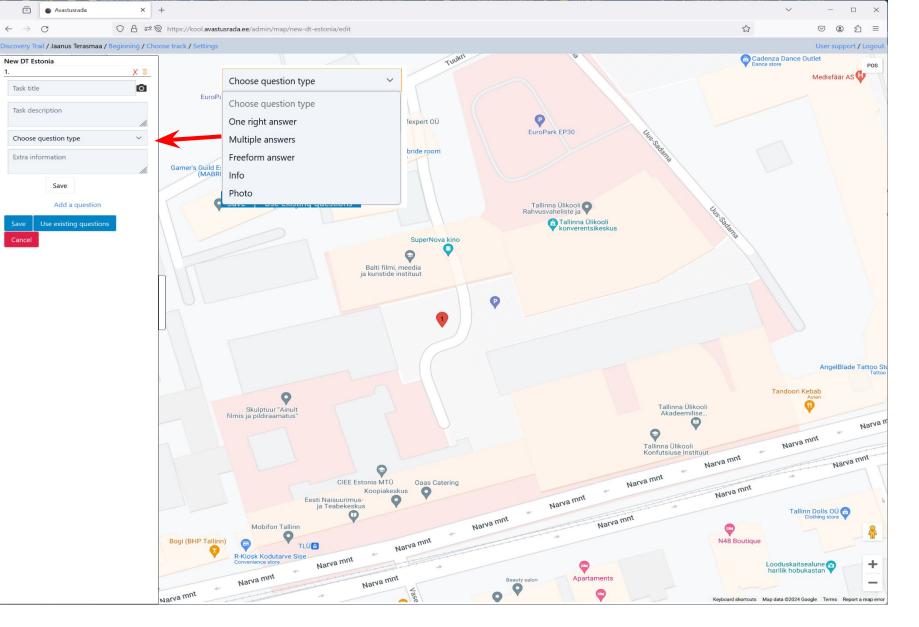
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In the map view of the trail editor, you have to manually find the place where you want to build your trail.

You can zoom in and out and move freely on the map.







When you find the desired location on the map, you can add a trail point by simply clicking on the map.

A red marker will appear on the map, and a new form for the task description will be presented on the side.

There, you can provide the following information:

- name of the task
- task description
- type of the question
- extra information

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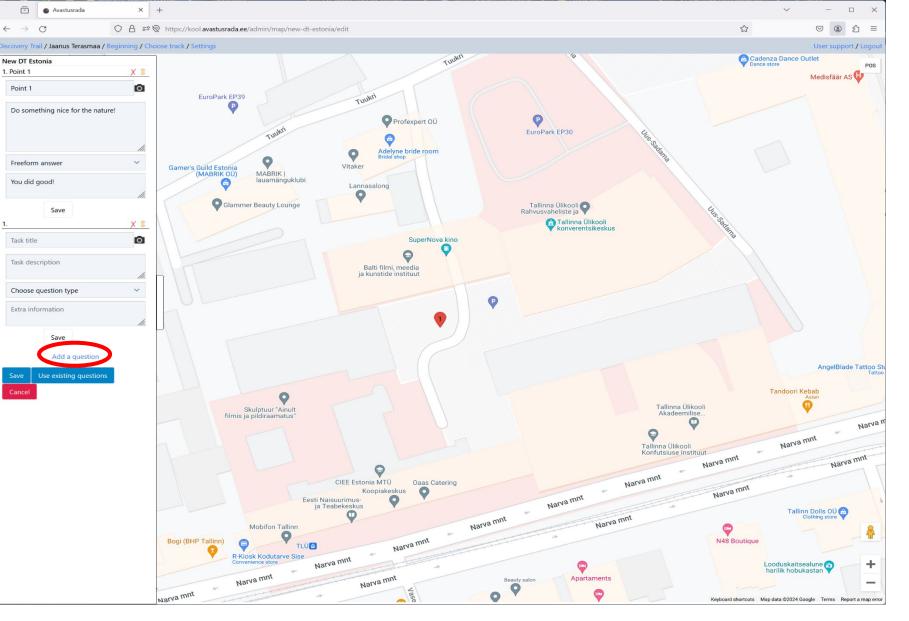
of the European Union







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You can add more than one task to a single trail point by clicking 'Add a question'.

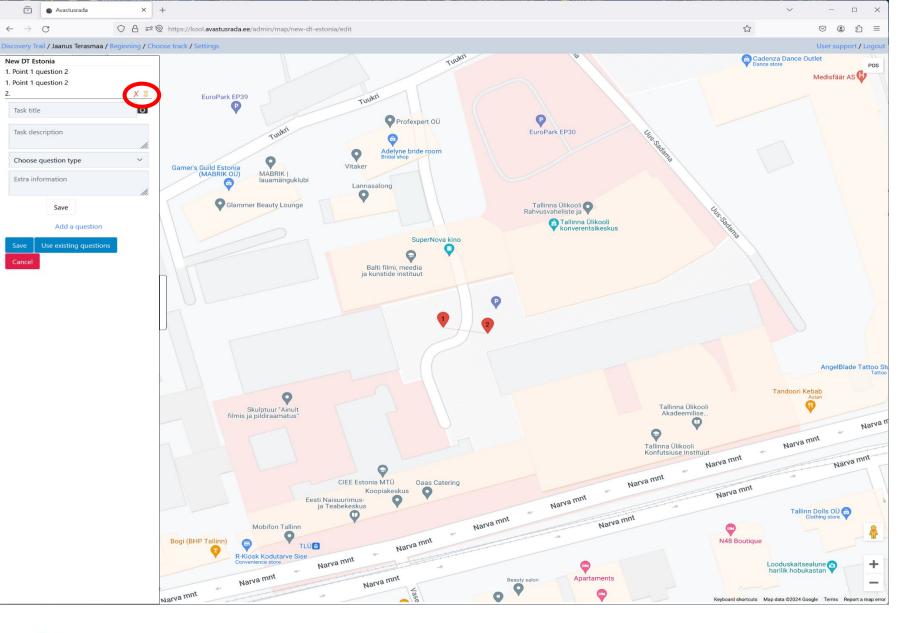
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To add more trail points, simply click on the map.

You can change the order of the trail points by using the arrow in the right corner of the task description form.

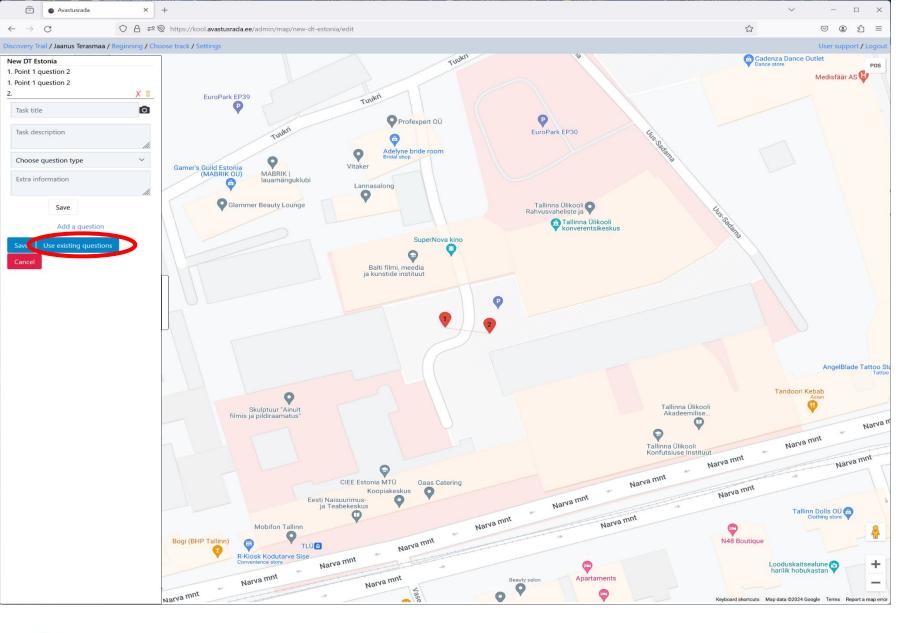
By clicking on the 'X', you can delete a trail point (confirmation for this action will be requested).



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If you want to find an already existing question (made by others) in Avastusrada, you can click on the button 'Use existing questions'.

A new dialogue window will open.

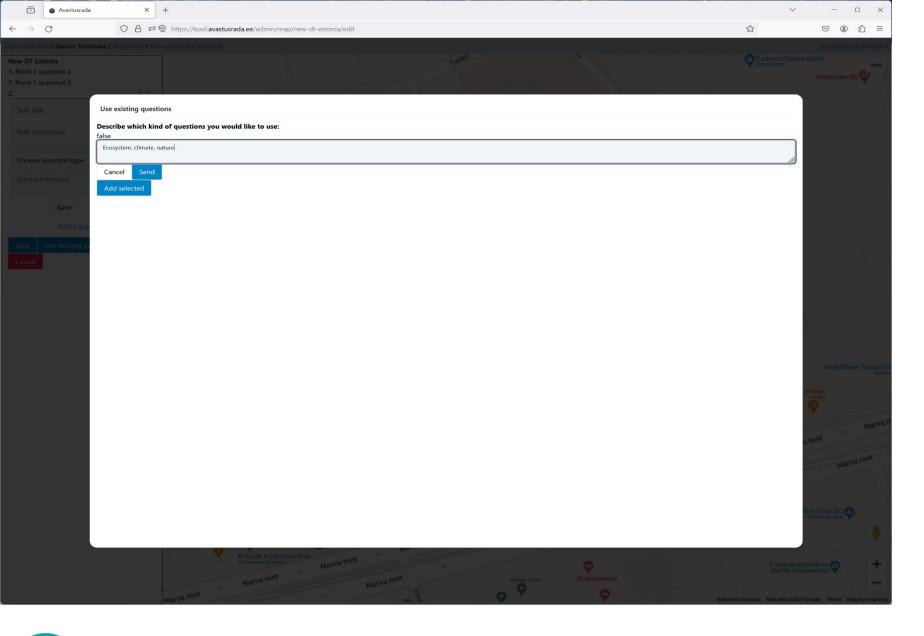




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Use keywords or a description of the desired outcome.

This search uses AI, so the results are directly related to the quality of your prompt.





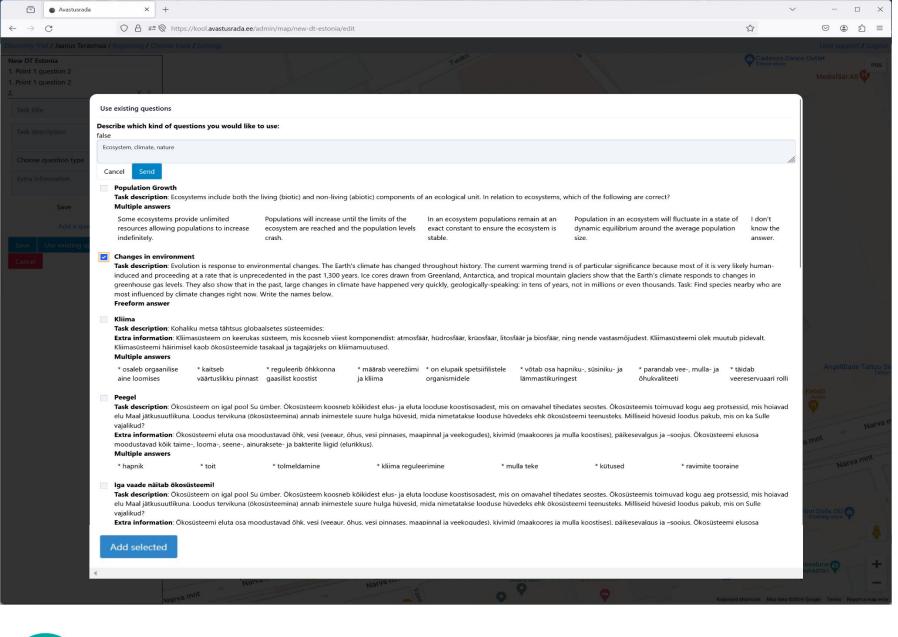




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You will be presented with a list of questions. Tick the boxes for the ones you would like to use.

When the selection is made, click on 'Add selected'.

You can repeat the search later for different results.







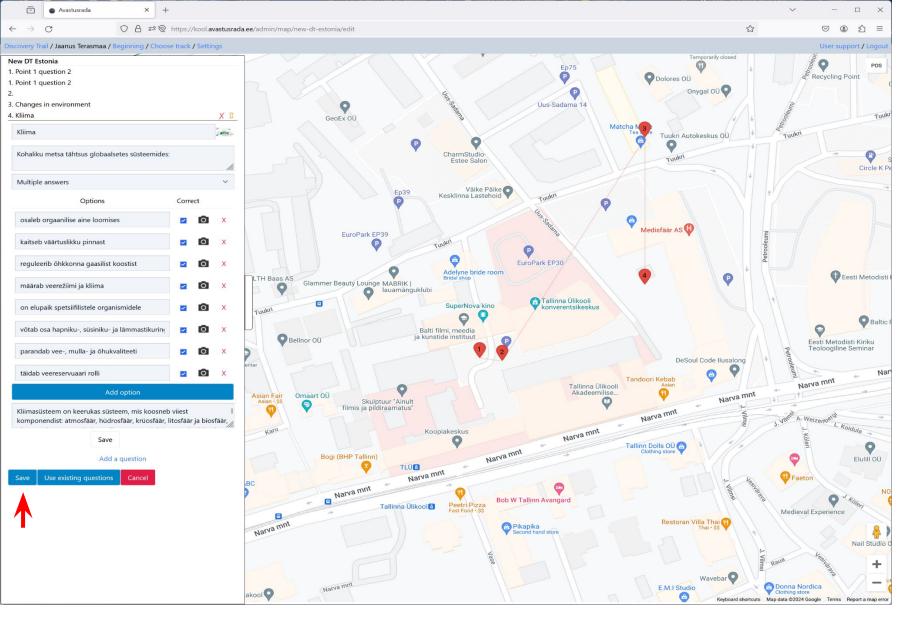


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A new trail point will be added to the map randomly.

You can drag them to the correct places by using your cursor (or finger on the phone).

When the trail is ready, click the 'Save' button.

You must also save each trail point as you create them.

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When the trail is ready and you want to ask people to use it, click on the three dots and choose 'Play!'













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You have to fill in the form and click 'Register for game'.

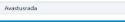
New DT Estonia

Target group: Il school level Enter players names and e-mail addresses. Players will receive link to the game via e-mail.

Player:

Jaanus Terasmaa pootsman@tlu.ee

Choose game mode:



Join the game User support Admin panel Write us en 🗸







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You will be presented with three choices on how to invite others to the game:

- Code
- With link
- With email

You can make your choice by using the slider buttons.

When the choice is made, click 'Save'.







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If you choose 'Code', you can send this code to your players.

They can join the game by clicking the link 'Join the game' in the footer of the page.

They will be presented with a small form to fill out.





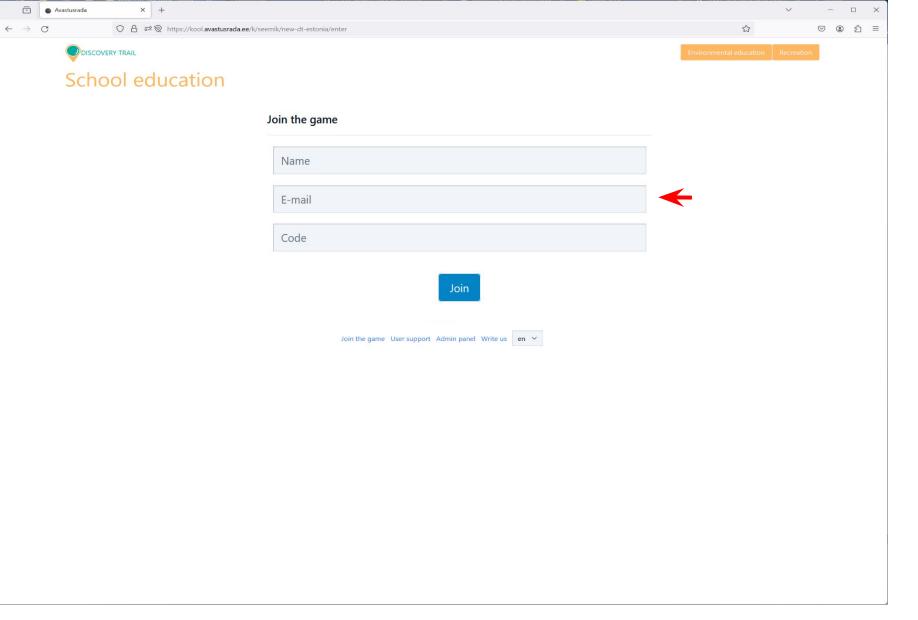


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After clicking 'Join', the player will be directed to the game.

If they type in their email address (recommended), they will receive a link to the game in their mailboxes.

From that link, they can continue the game later, etc.

If an email is not provided, it is not possible to continue the game if the player exits the game, closes the browser window, etc.











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		With email Enter players names and e-mail addresses. Players will receive link to the game via e-mail. Player 1:					
		Name					
		E-mail					
		Add more players + Save Join the game User support Admin panel Write us en V					

Using the 'Link' option, you can send players the link, and they only have to fill in their name and email address.







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			Name E-mail Add more players +			
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With the email option, you have to prefill the form yourself, player by player.

You can add as many players as you like by clicking on the link 'Add more players'.

When you click 'Save', players will receive an invitation email with a link.







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Players can also join if they are logged in with a Google account.

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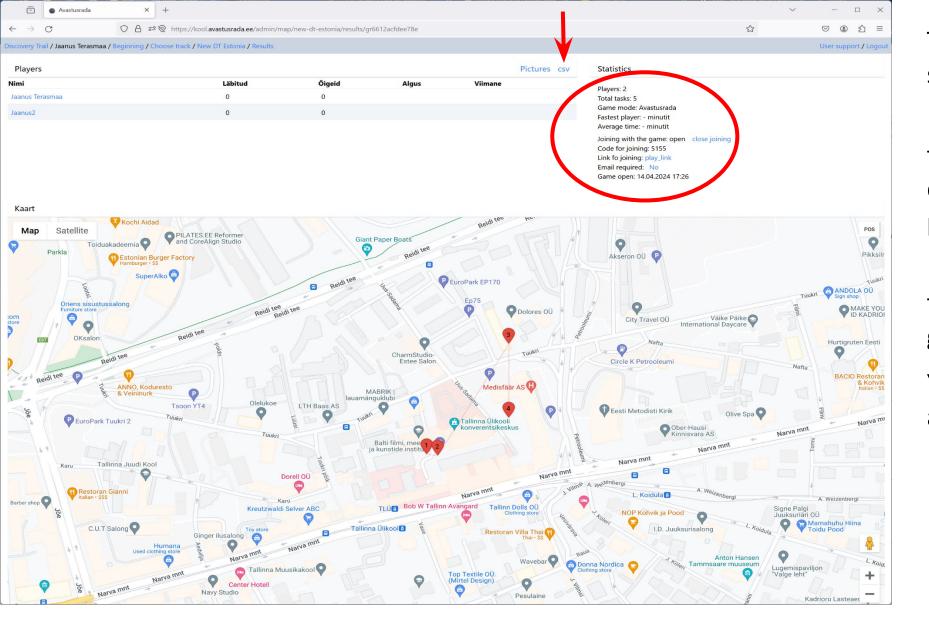
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This way, they will have all their played games in the list.









The teacher can see all started games in their list.

Players, their answers, and their location on the map during the game are presented.

It is also possible to turn off the registration and see the game code and link.

You can export the results as a CSV file.

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Results are exportable in the CSV format. The CSV format is compatible with every spreadsheet platform. This way, it is possible to send results to the players, use them as an education topic in class, and so on.

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Smart trails for everyone





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