

VGI CHALLENGE

INNOVATING PUBLIC TRANSPORT IN AND AROUND INGOLSTADT











Welcome to the VGI Challenge

Thank you for joining us at the VGI CHALLENGE.

We're very excited about the solutions and ideas you and your team will present us!

You have already chosen your Team and your Challenge at the Kick-Off Event. The following slides will include all the information you need to successfully prepare your pitch.

Good Luck!











TOPIC 3: HOW DOES THE VGI-FLEXI MOVE RURAL AREAS?













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Description:

Since June 2022, on-demand buses have been operating in selected areas of the VGI region around Ingolstadt to efficiently serve the irregular demand in rural regions. The precise data collection of these on-demand buses' travel behavior offers significant opportunities to gain valuable insights and better tailor services to the needs of the rural population of Ingolstadt.

Objective:

Visualization of the spatio-temporal travel behavior of VGI-Flexi users.

Requirements:

Anonymized demand data for an on-demand area will be provided for one month. Using software of your choice (e.g., Python, R), you can first statically identify the most demanded bus stops (e.g., heatmaps) and then dynamically integrate the temporal component (e.g., ShinyApp). Ideally, the Flexi bus will drive on the demanded routes.







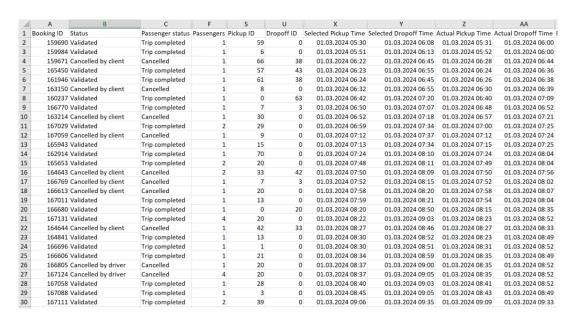




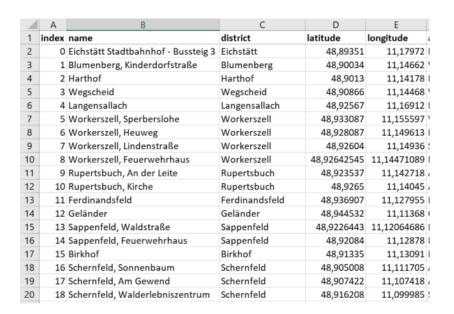


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Data:



(a) Anonymized trip data



(b) Bus stop coordinates











Contact and Data

You will receive the needed data for your challenge along with this presentation in the email. If there are any questions during the workweek regarding your challenge feel free to contact:

Simon Mader (KU)

Simon.mader@ku.de











Workweek

You and your team will be able to work on your challenge starting from the Kick-Off Event until the following Friday, 15. November.

During this time, you can work from wherever you want - but also rooms at the THI will be available to you:

When	Where
09.11.	J201
10.11.	J201
11.11.	D315
12.11.	G117
13.11.	E001
14.11. until 11:25	E001
14.11. from 11:35 until rest of the day	K010

The rooms will be open during the normal THI working hours. Some small refreshments and snacks will be provided. Please consider that there is limited space.











Your Pitch

You will present your solution with a quick pitch at the closing event, 15. November.

Please prepare a Powerpoint presentation that showcases your work—

It can be as creative or detailed as you want.

Just make sure that you can deliver your pitch in 3 minutes.

Every group will have a designated time slot on the day of the event. There will be a small time buffer between pitches for connecting your PC with our equipment and get everything ready. Make sure you have a HDMI compatible Laptop.

We will mail you the exact order of the teams pitches the day before the event.











Jury and the Selection Process

After everyone got the chance to present their pitches, our jury will start their selection process and decides who wins the VGI Challenge.

They will consider the following attributes in your pitches:

Innovation

How creative and new is the idea? Do you have a different angle than everyone else?

Complexity

How complex is the solution? How many details were you able to consider?

Usability

Will the VGI be able to implement the solution? How doable is it?

Presentation

How good was the overall pitch?











The Prices

The total Price Money of 10.000€ will be divided like this:



Second Place 3.000€





Third Place 2.000€

The prices will be split evenly and fairly between all participating team members.











Have fun and good luck! We will see each other again: 15.11.24 16:00-20:00 at Reimanns, Campus THI

If you have any other questions, feel free to contact us:

Melissa Schultze (AININ)

Melissa.Schultze@ainin.de







