

### PERSEUS PhD project:

«Digital Twins for future mobility and infrastructure solutions»

Duration: 2023-2026



#### Main supervisor:

Gabriel Kiss

[gabriel.kiss@ntnu.no](mailto:gabriel.kiss@ntnu.no)

#### Co-supervisors:

Frank Lindseth (IDI)

[frankl@ntnu.no](mailto:frankl@ntnu.no)

Hongchao Fan (IBM, IV)

[hongchao.fan@ntnu.no](mailto:hongchao.fan@ntnu.no)

The main aim of this project is to build a static digital twin of the MobilityLab's focus area that will act as a baseline for all further simulations and will be extended to be able to receive dynamic information from IoT sensors.

An accurate digital representation of the focus area will be created, based on existing geometric information and high-resolution aerial photographs. Raw data is already available for the project either as public or previously acquired datasets, additionally during the project more raw-data will be acquired with our in-house full scale research platforms (Kia e-Niro with an NVIDIA DriveWorks stack as well as dedicated high-resolution surveying drones). The final aim of the project is full automation of the conversion process from raw data to a usable digital twin representation (i.e. AI based methods and handling of Big Data arriving in real-time from the research platforms).



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