1. MobiBox can deliver enough information about the environment

**[Artificial Intelligence Components](https://www.thi.de/studium/center-of-entrepreneurship/events/aimotion-challenge#accordion-20714-4801)**

* Detect objects and classify them
* Segmentation of the image so that the transportation device knows where it can fly or drive
* Speech recognition and transformation into control commands
* Matching of spoken words to detected objects
* The MobiBox should be able to understand natual language, i.e., commands that a human just queries out of a situation

#### **[Testing](https://www.thi.de/studium/center-of-entrepreneurship/events/aimotion-challenge#accordion-20714-4802)**

The results of the teams will be tested by taking a journey within the virtual world of the [Airsim](https://microsoft.github.io/AirSim/) Simulator. The journey starts at a secret point and commands will be given by speech to tell the mobility device where to go to. This procedure is done three times, for each of the two transportation devices drones and scooters in an appropriate manner.

#### **[Extra Points](https://www.thi.de/studium/center-of-entrepreneurship/events/aimotion-challenge#accordion-20714-4803)**

* For a creative design and name of the MobiBox
* For funny conversations and interactions of the MobiBox with the user
* For efficient use of computation power
* For reusing the same components for different tasks

Dataset

1. for drones and cars from Airsim
2. Training in a simulator and applying it to the real world is a challenging task where you need to overcome the domain gaps.