



At the **Chair of Operations Management** at **TUM School of Management** we are looking for interested and qualified students to conduct their

## Project study

in collaboration with a young start-up. The topic is:

### **Development and Evaluation of different Minibus-Sharing Models**

#### **Commissioning company:**

The company commissioning this project study is a young start-up working to provide a transportation service for several European cities and regions. By the end of this year, it will have launched a minibus service that carries up to eight customers with similar routes in each of its vehicles.

#### **Problem description:**

Customers will be able to book trips using a smartphone app to set destination, pickup location and time. They will then be able to choose from a variety of travel options that differ regarding travel time and fare. After booking and paying for of the option, they will be integrated into the route of one of the minivans which will pick him up and bring him to his destination. On the way, the minivan will collect or drop off other customers who are traveling into a similar direction.

The goal of this project study is to develop and evaluate different models to calculate different travel options, as well as the vehicle routes.

#### **Requirements:**

This project study is suitable for a TUM-BWL undergraduate student whose major is in the operations and supply chain management. The student should have knowledge in implementing ILOG/OPL and ARENA.

**Beginning date:** as soon as possible

**Number of students:** 2-4

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