In densely populated regions traffic jams, accidents and delayed public transport are well-known phenomena. New developments as automated driving, Mobility as a Service or advanced rail technologies offer opportunities and raise new challenges. The MSc-track Transport & Planning shapes people to play a pivotal role in solving traffic-related societal problems. Join us to solve these challenges, which are high on the political agenda and often in the news.

Programme
The focus of the MSc-track Transport & Planning is the design, assessment and management of road and railway transport systems and related networks. Core competences of Transport & Planning are Modelling, Design and Empirical research. Empirical data analysis, mathematical modelling and simulation are important methods that are used to study the transport system. This broad programme enables you to build up expertise across all main private and public transport modes for people and goods, ranging from the strategic planning and tactical design to the operational monitoring and control. You will gain experience through ‘learning-by-doing’ in the different courses’ assignments. Furthermore, the material is directly linked to state-of-the-art research conducted at Transport & Planning.

As a student of T&P you will be shaped to become the professional of the future by means of practical assignments performed in close cooperation with industry. You have the freedom to compose a programme according to your interest by choosing from three specialisations and a selection of electives, preceded by a solid basis in the fundamentals of each specialisation as well as in engineering and research skills.
## Specialisations

The three specialisations consist of four courses each, and cover different domains in the field of Transport & Planning:

- **Transport Networks**, focussing on analysis and assessment for a broad range of urban and regional transport systems and multimodal networks in terms of mobility, accessibility, reliability, robustness and emissions and so on.

- **Road Traffic Systems**, focussing on operations and management of private traffic flows, i.e. cars, trucks and active modes as cycling and pedestrians, in regular and irregular conditions.

- **Public Transport and Railway Systems**, focussing on design, operations and management of urban and interurban/national passenger transport services, including railway traffic operations and management.

### Graduation examples

- Design of robust road networks for climate change
- Spatial impacts of automated vehicles on urban form
- Control strategies for fixed and flexible public transport services
- Design of flexible timetables for resilient railway operations
- Green wave for cyclists based on speed advice and traffic signal optimisation
- Estimating queue lengths using traffic data fusion on urban arterials

## Career prospects

Graduates of the Transport & Planning track find a wide range of rewarding public and private sector opportunities in various fields, including research, technology and systems development, policymaking, consultancy, management and education. Given the university's connection to important industries our graduates have good access to job opportunities in the Netherlands and abroad. Furthermore, the world needs specialists in the domain of infrastructure, transport and traffic in order to deal with the challenges we are facing. Therefore, the career prospects of Transport & Planning students are, and will be, excellent.