Department of
Transportation Planning and Engineering

School of Civil Engineering

National Technical University of Athens

Mission

- The **education of scientists** engineers
- The **promotion of science**

in the field of transportation planning and engineering

Center of Research and Innovation Excellence
in Transportation
with global recognition
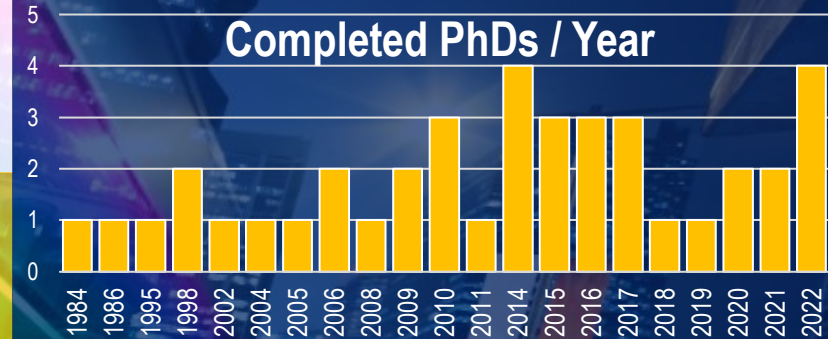Ranked **4**th in Europe, **26**th worldwide
(EduRank 2023)

Vision

A future with highly **efficient, green and safe** transport systems in Greece and globally,

through high level **scientific research** and technological development supporting evidence based decision making in all aspects of all transport modes and types

NTUA DTPE Activities
in figures (since mid 80s)

1.300+ Diploma and **40+** PhD Theses

Completed PhDs / Year

390+ Research Projects
mostly through highly competitive procedures

2.000+ Scientific Publications
(> 500 in Journals), widely cited worldwide

350+ Scientific Committees,
International collaborations:

decades of Universities and Research Centers

Pavement Engineering Laboratory

Railways and Transport Laboratory

Traffic Engineering Laboratory

Research Areas

Pavement Engineering Laboratory
- Pavement Materials, Testing & Characterization
- In-situ pavement testing and evaluation
- Road Design

Railways and Transport Laboratory
- Simulation & Prototyping of Innovative Handling Systems
- Information Systems for Transport Infrastructure
- Transport System Simulation & Optimization

Traffic Engineering Laboratory
- Traffic Management
- Road Safety
- Intelligent Transportation Systems and Automation

Key Research Priorities

Pavement Engineering Laboratory
- Materials against **climate change**
- Remote and **automated systems**
- **Vehicle communication** systems
- Life Cycle Assessment (**LCA**) of pavements

Railways and Transport Laboratory
- **Research infrastructure** for transport & logistics
- **Wagon fleet management**
- **Urban Freight** Truck routing
- **Water airport** and Seaplane services
- **Gas energy** security
- **Virtual pipeline** for gas distribution

Traffic Engineering Laboratory
- **Automation** and Connectivity
- Driving **Telematics**
- **Drone** based traffic monitoring & analysis
- Traffic and driving **simulation**
- **Smart Cities** and sustainability
- Traffic and Safety **Big Data**
- Traffic and Safety Information **Systems**
- **Artificial Intelligence** boosting Mobility