



Sveučilište u Zagrebu
University of Zagreb

Fakultet prometnih znanosti
Faculty of Transport and Traffic Sciences

Marjana Petrović
marjana.petrovic@fpz.unizg.hr

Zagreb, March 2024

University of Zagreb



- Public University
- Established in 1669
- Oldest and biggest in South-East Europe
- 31 faculties + 3 art academies
- Students: 70 000
- Academic staff: 8 000
- Over 50% of scientific and research output in Croatia



Sveučilište u Zagrebu
University of Zagreb
Fakultet prometnih znanosti
Faculty of Transport and Traffic Sciences

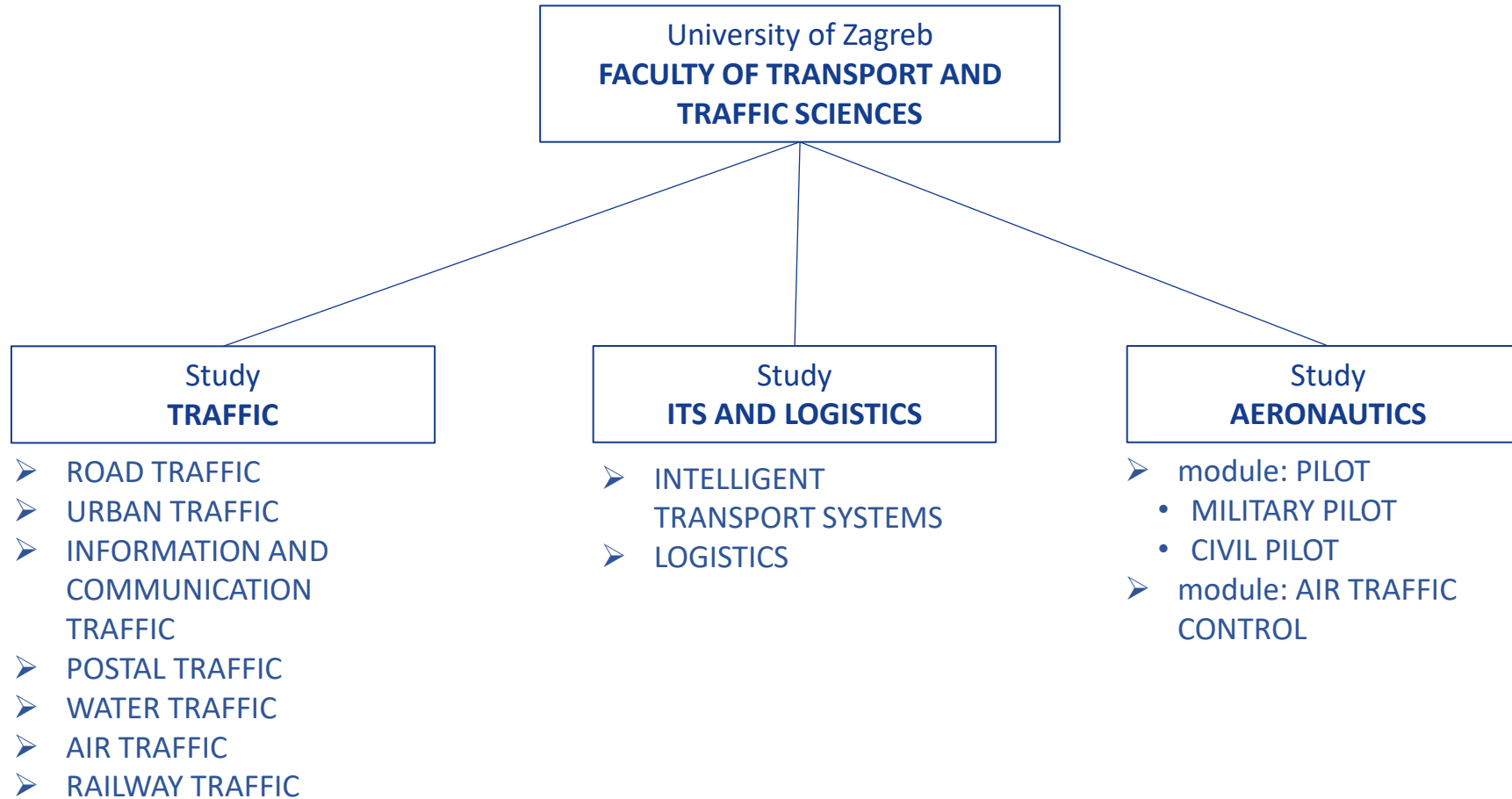
Faculty of Transport and Traffic Sciences



- Established in 1984
- Bologna system (3+2) introduced in 2005
- Teaching staff: 125
- Non-teaching staff: 120
- Students: 1 810
- Flagship high education, scientific and research institution in the field of transport and traffic engineering in Croatia



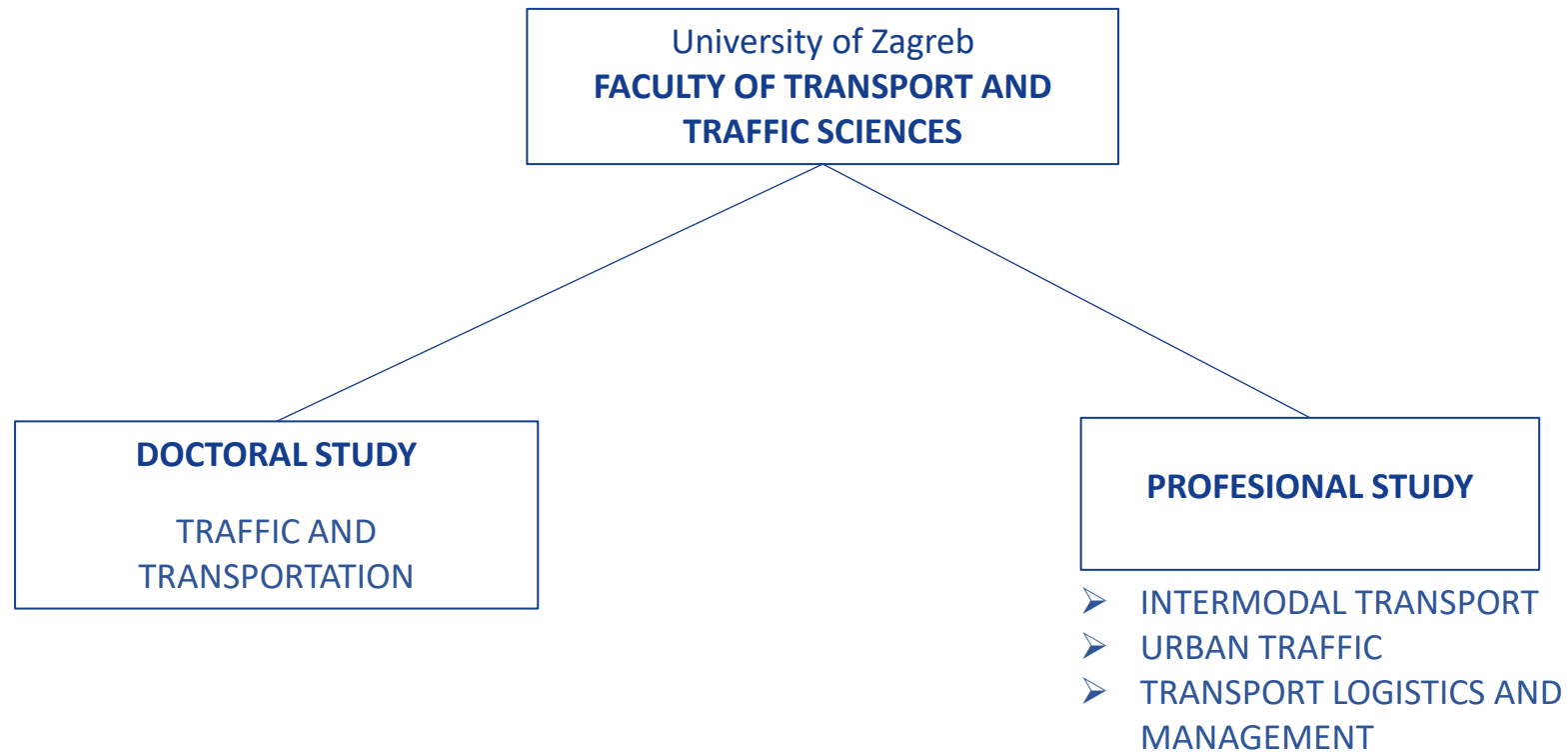
Undergraduate and graduate study programs



Undergraduate study – 6 semesters (180 ECTS)

Graduate study – 4 semesters (120 ECTS)

Postgraduate studies



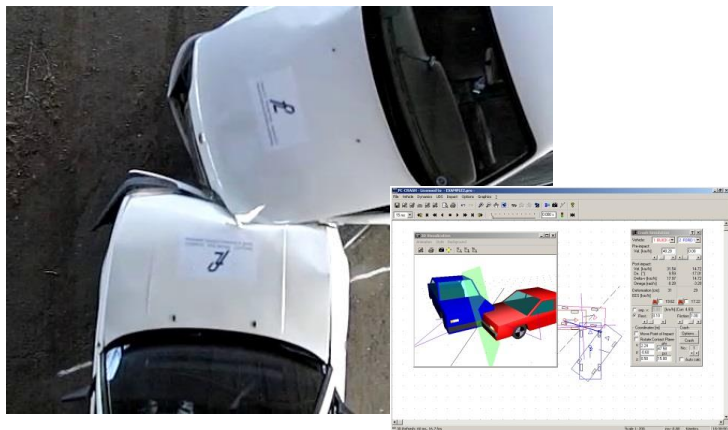
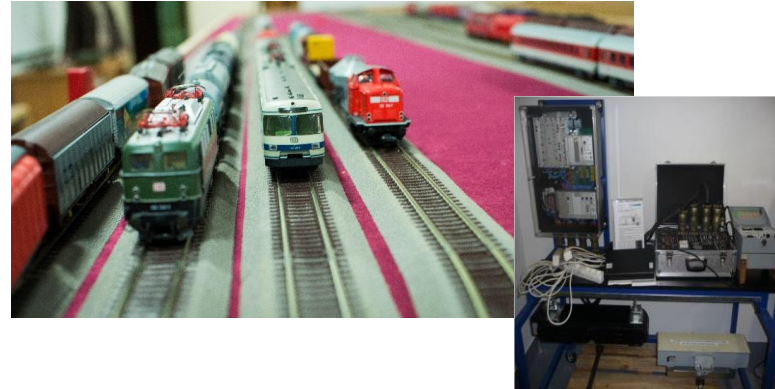
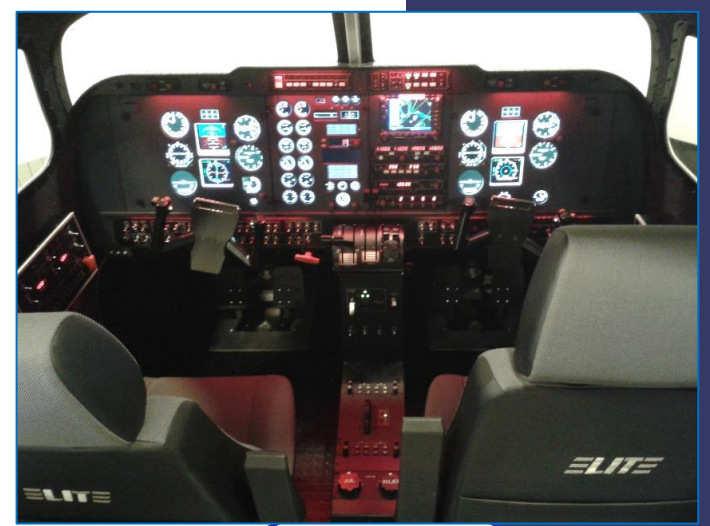
Scientific and research activities

- Main research focus is related to finding solutions that will enable **mobility** in a **more efficient, secure, and environmentally sustainable** way
- Faculty continuously monitors the **new trends** in the transport system's development and has defined about **40 topics** that our experts deal with through scientific research projects
- Some of the main research topics:
 - sustainable transport,
 - the safety of all road users,
 - application of big datasets in transport,
 - cooperative transport systems,
 - virtual and augmented reality in logistics,
 - GNSS systems
 - innovations in airplane control
 - innovations in ATM systems
 - drones, etc.

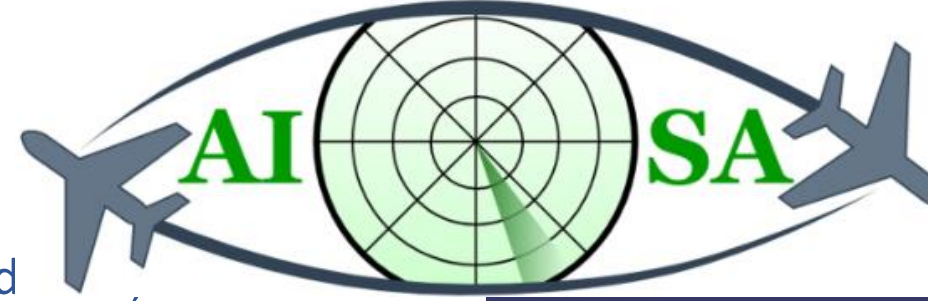


Research infrastructure

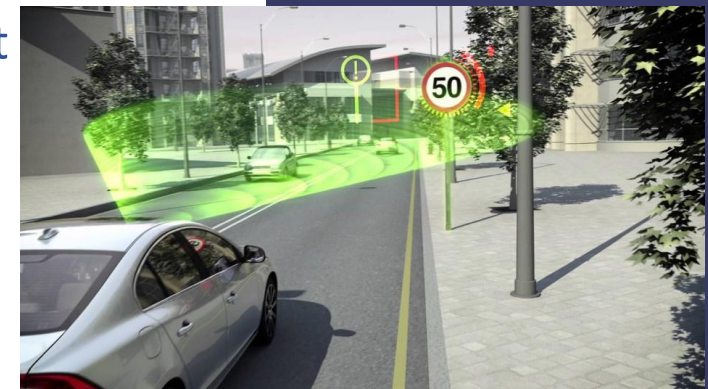
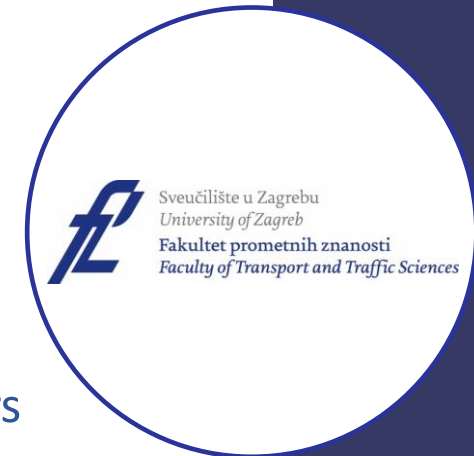
- 20 labs
- One lab in collaboration with industry partner (Ericsson Croatia)
- Three labs certificated by external body



Scientific and research activities

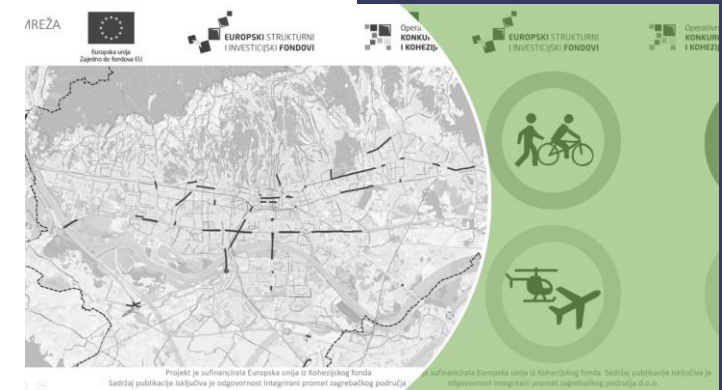


- Projects founded by: H2020, Horizon Europe, Croatia science found government, university...
- AeroSTREAM – Strengthening Research and Innovation Excellence in Autonomous Aerial Systems – strengthening capacity for innovation for research institutions in higher education
- IVORY – ‘AI for Vision Zero in Road Safety’ (Horizon Europe) – education of the new researchers
- ELABORATOR - Research and Innovation actions for support the implementation of the Climate-neutral and Smart Cities Mission – development of methodology, tools and recommendation for urban planners and companies to enhance innovations
- OLGA – hOListic & Green Airports – reducing negative impact of air transport industry on environment
- Sustainable Urban Mobility Boost Smart Toolbox 1&2 (EIT-H2020) – identification of urban zones with high percentage of personal cars and detection of sustainable transport modes



Professional activities

- Faculty provides services for the state, cities and industry in all transport modes
 - Development of Sustainable Urban Mobility Plans
 - Development of masterplans and transport strategies
 - Feasibility studies, etc.
- The most recent professional projects:
 - Study on common specifications for road markings and road signs on EU level
 - Methodology for network-wide road safety assessment on EU level
 - RADAR - Risk Assessment on Danube Area Roads
 - SLAIN - Saving Lives Assessing and Improving TEN-T Road Network Safety
 - Quality control of road markings and signs on Croatian state roads and motorways
 - Transport Masterplans for the City of Zagreb and the City of Split
 - Sustainable Urban Mobility Plan for the City of Slavonski Brod
 - Study for implementation of Congestion Charging Zone in the City of Dubrovnik
 - Study of Providing the Multimodal Traffic Information in the Republic of Croatia



Conference & Journal

ZIRP 2021 International Conference
The Science and Development of Transport
Znanost i razvitak prometa

ISSN 2718-5605

Proceedings of the International Scientific Conference
"The Science and Development of Transport" (ZIRP 2021)

ORGANIZER


University of Zagreb
Faculty of Transport and Traffic Sciences

CO-ORGANIZERS

SPONSORS

30th September – 1st October 2021
Šibenik, Croatia

ZIRP Youth 2022 International Conference
The Science and Development of Transport
Znanost i razvitak prometa

ISSN 2718-5605

Proceedings of the International Scientific Conference
"The Science and Development of Transport" (ZIRP Youth 2022)

ORGANIZER


University of Zagreb
Faculty of Transport and Traffic Sciences

CO-ORGANIZERS

SPONSORS

PARTNERS


Ericsson Nikola Tesla

PATRONS

28th September 2022
Šibenik, Croatia

Promet
Traffic & Transportation

ISSN 0353-5120 Print
ISSN 1848-4569 Online
UDK: 656
CODEN: PROMEZ

Scientific Journal on Traffic and Transportation Research

1

 Sveučilište u Zagrebu
University of Zagreb
Fakultet prometnih znanosti
Faculty of Transport and Traffic Sciences