



New Year Event of the Department of Transportation Planning and Engineering

Tuesday 28 January 2025



2024 was definitively
an impressive year

for the Department of Transportation
Planning and Engineering of NTUA

with particularly high educational,
research and scientific performance

with the persistent and systematic
efforts of all its Members



Department People

A dynamic team of more than **90** renowned scientists

6 Faculty

7 Emeritus Professors

2 Special Lab & Teaching Staff Member

16 Post Doctoral Researchers

43 PhD Candidates

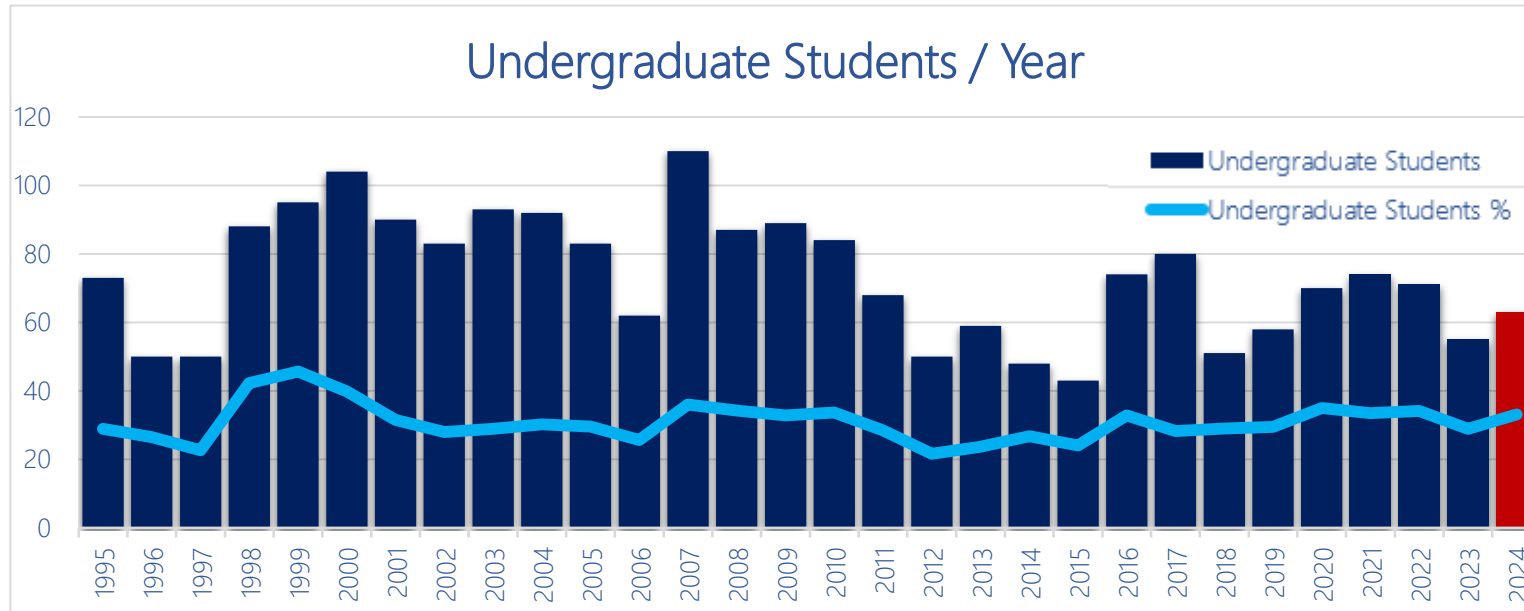
5 Technical and Administrative Staff

13 Research Assistants



Undergraduate Students

Civil Engineering - Transportation Cycle



Every year, we train more than **1/3 of the total number of students** of the School



Courses

- **22 undergraduate courses** at the School of Civil Engineering (compulsory and elective for all civil engineering students, but also especially for students of the Transportation Cycle)
- **3 undergraduate courses** at NTUA Engineering Schools
- **5 postgraduate courses** at NTUA Engineering Schools



Integrated Transport Planning Project

Greek Island Transport Plan Development

Exploitation of real data in a project that covers all transportation engineering disciplines, combining all different transport and development objectives in a **comprehensive and integrated approach**

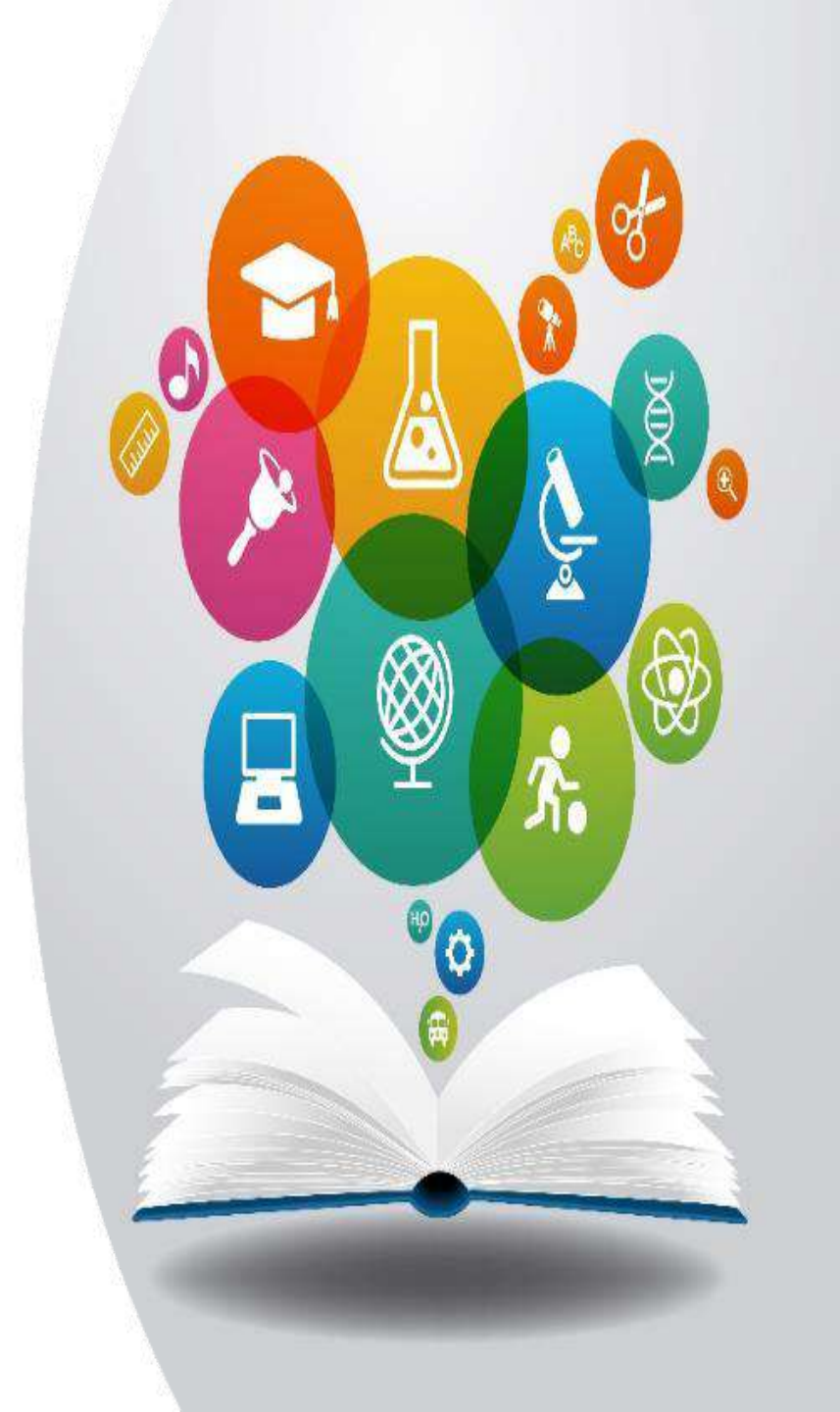
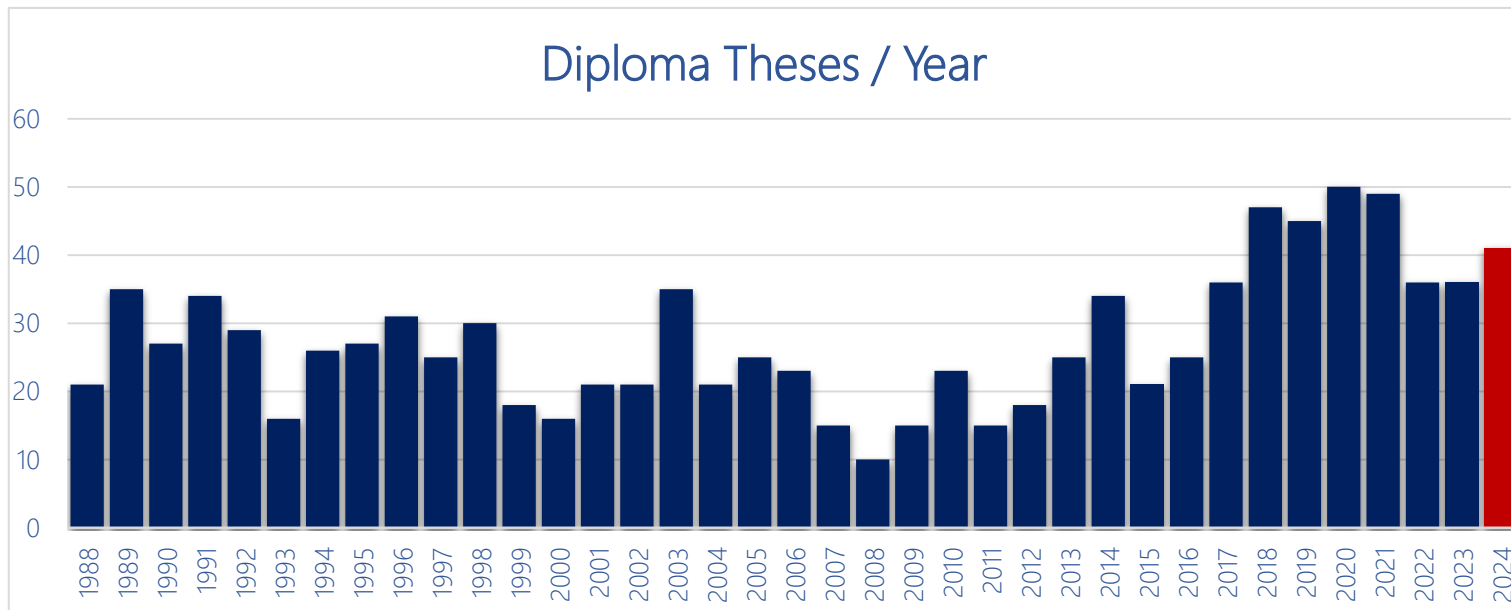
- Full **analysis** of current transportation situation
- **Transportation** (Internal and external transport analysis, Planning passenger / cargo ports and airports)
- **Traffic Engineering** (Traffic Analysis, Identification of high risk sites, Urban Mobility Plan)
- **Road construction** (Configuration of critical junctions, Pavement upgrade program)
- **Technical and economic** analysis of the overall plan of transportation development (cost-benefit)



Diploma Theses 2024

5th best performance ever

- **41** high level Diploma Theses



13 New PhD Theses 2024 (1/2)

1st best performance ever

- **Aristotelis Tsoutsanis:** "Data fusion of traffic, behaviour & infrastructure for holistic driver assistance"
- **Stylianos Peithis:** "Deep Learning and Artificial Intelligence applications for optimized traffic and mobility performance"
- **Sarkis-Sotirios Malevizian:** "The concept of sustainability in the design and behaviour of asphalt pavement"
- **Antonios Kontizas:** "Investigation of Safety Margin with regard to Skidding and Dynamic Hydroplaning Risks of Two-Axle Vehicles on Motorways and Expressways"
- **Konstantinos Eirinaios Kaselouris:** "Investigation of the accessibility of urban environments considering vulnerable users needs"
- **Alexandra Vasileiadou:** "Electric bus and automated bus routing optimization with the use of Artificial Intelligence"



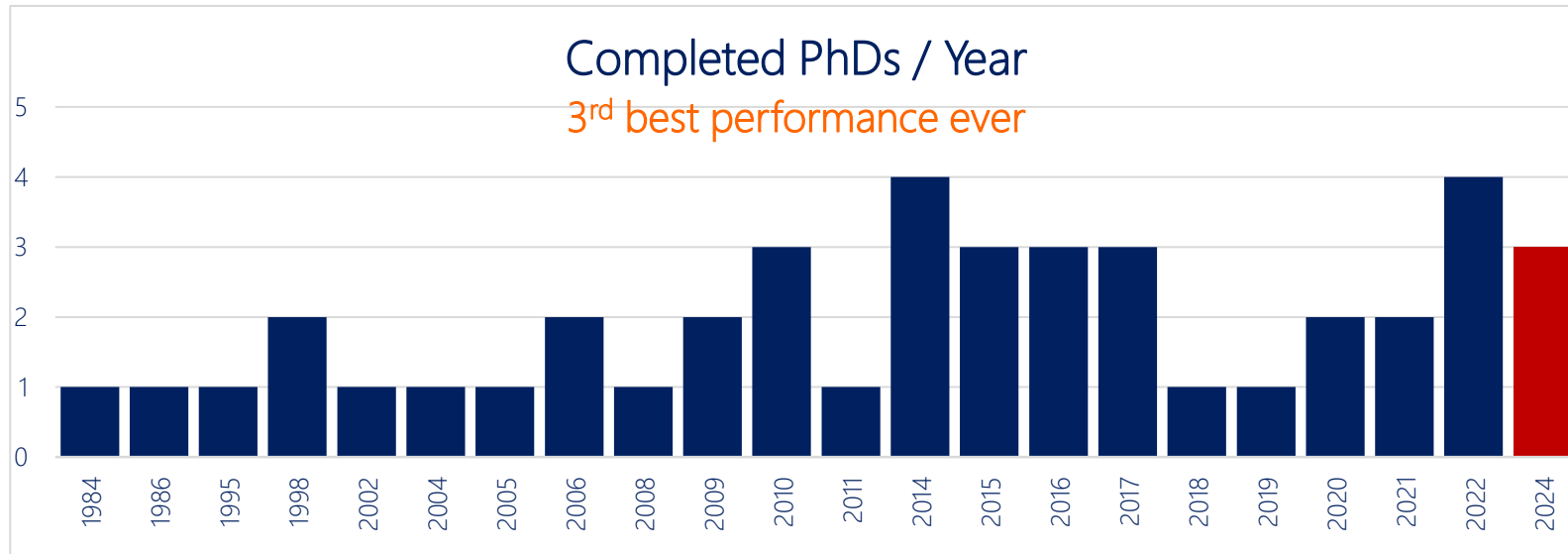
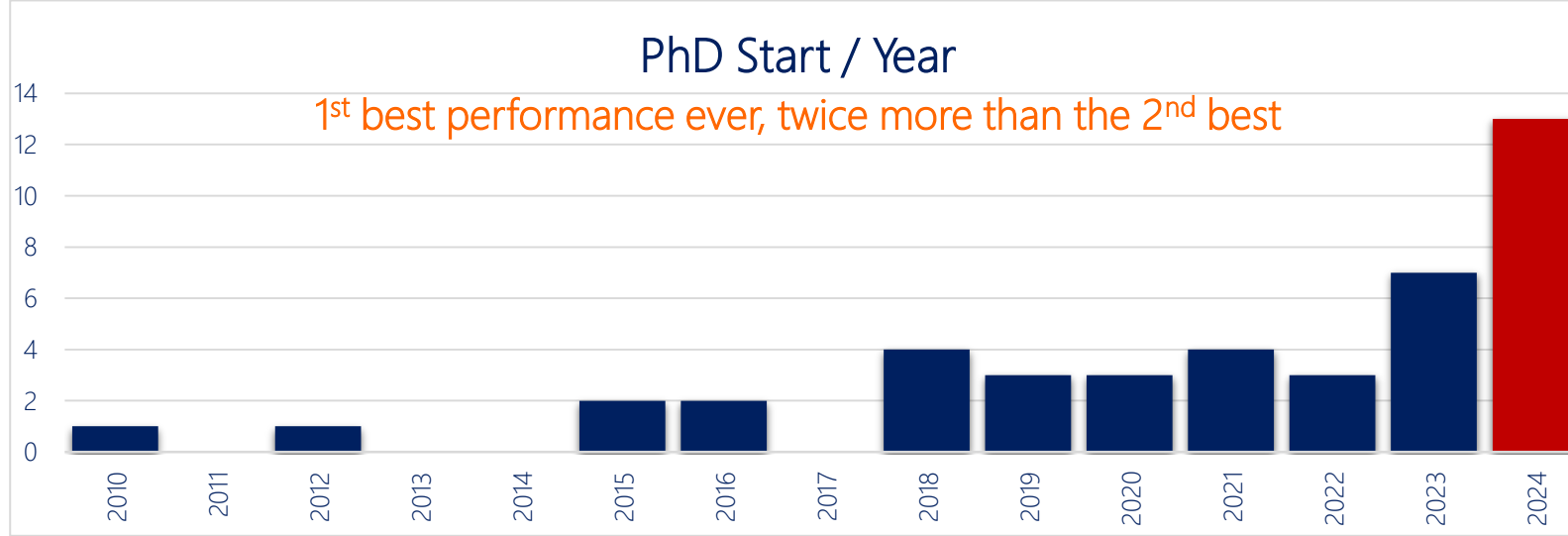
13 New PhD Theses 2024 (2/2)

1st best performance ever

- **Androniki Dimitriadou**: "Resilient Planning of Urban Electric Bus Transit Systems"
- **Aikaterini Papadatou**: "Fundamental Multimodal Models for Short-Term Traffic Forecasting in Urban Networks"
- **Viktoria Petkani**: "Dynamic and on-demand data control in traffic management"
- **Dimitris Tzanis**: "Self-operated dynamic traffic control systems in urban networks"
- **Aristotelis Styanidis**: "Road safety prediction on the basis of ethically sound physiological measurements"
- **Julia Alves Porto**: "Proactive risk mapping and infrastructure safety management"
- **Simone Paradiso**: "Artificial intelligence for Road Safety Monitoring and Crash Prediction from micro to macro levels"

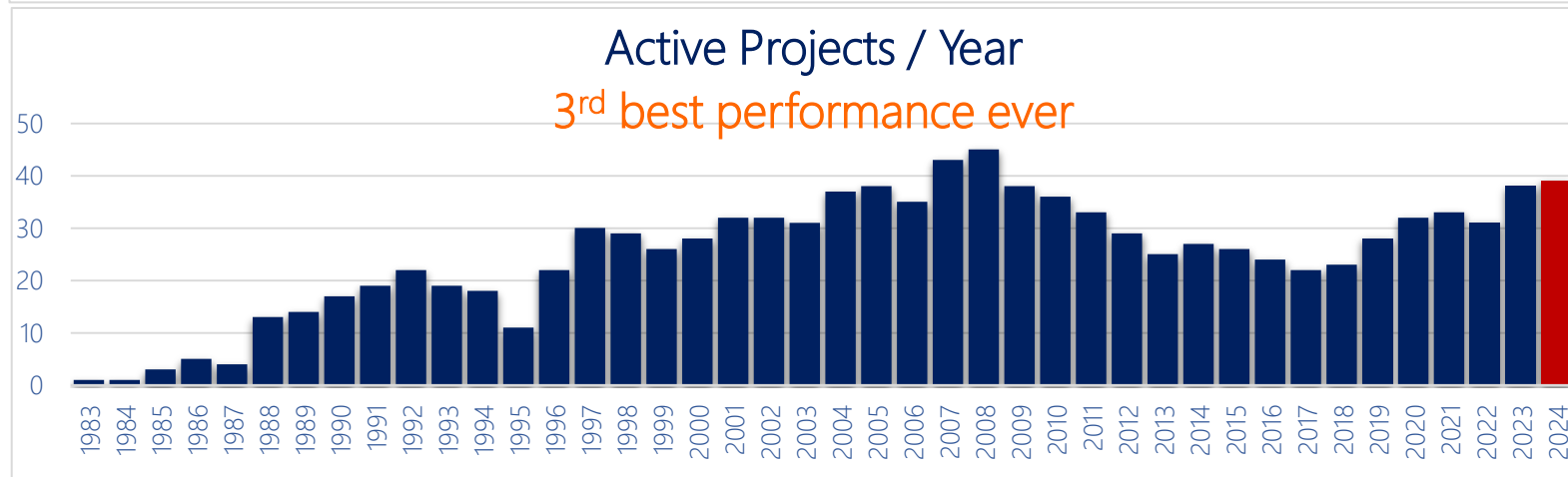


PhD Theses 2024



Department Research Projects 2024

- **15** new research projects - **38** in progress
- **11** ongoing European Horizon research projects



Scientific Work of the Department

- more than **44 published papers in scientific journals** and more than **61** papers in scientific conference proceedings
- more than **84 presentations** at scientific conferences
- the participation of the members of the Department in more than **59 scientific conferences** in Greece and globally
- more than **3.661 new citations** of the work of the members of the Department



Distinctions of the Department

- The Department of Transportation Planning and Engineering was ranked **6th in Europe** and 35th in the world among all Transport Sectors ([EduRank 2024](#))
 - It was the best performing among all NTUA Departments and all Greek Universities
- **7 Professors** of the Department of Transportation Planning and Engineering are among the top **2%** of the world's top researchers ([Stanford 2024](#))
 - E. Vlachogianni, +M. Karlaftis, G. Yannis, K. Gkiotsalitis, C. Plati, I. Golias, +D. Tsampoulas
- Professor George Yannis is ranked **2nd in Europe** and 9th globally in road safety research ([PubMed 2024](#))



44th NTUA

- [EduRank 2023](#): Ranked 195th (7%) in Europe and 494th (4%) Globally
- [QS 2023](#): Ranked 422nd (30%) Globally
- [Research.com](#): Ranked 44th Globally



2nd Civil Engineering

- [EduRank 2023](#): Ranked 11th in Europe and 31st Globally
- [Shanghai 2023](#): Ranked 2nd in Europe and 5th Globally
- [QS 2023](#): Ranked 21st in Europe and 69th Globally



4th Transportation

- [EduRank 2023](#): Ranked 4th in Europe and 26th Globally
- [Shanghai 2023](#): Ranked 41st in Europe and 168th Globally



2nd Road Safety

- [PubMed 2023](#): Ranked 4th in Europe and 45th Globally
- [AAP 2019](#): Ranked 2nd in Europe and 6th Globally



2nd Prof. George Yannis

- [PubMed 2023](#): Ranked 2nd in Europe and 9th Globally
- [AAP 2019](#): Ranked 2nd in Europe and 3rd Globally



Distinctions of the Department

- Professor **Eleni Vlachogianni** was elected Dean of the School of Civil Engineering (September 2024)
- Professor **George Yannis** received honorary distinctions for his effort to run 30 Marathons in 30 months:
 - Environmental Awards (September 2024) and
 - Mobility Awards (December 2024)
- The Global Alliance of Non-Governmental Organizations for Road Safety won the **Prince Michael International Road Safety Award**, in recognition of the Accountability Toolkit, with the active contribution of NTUA (December 2024)



Scientific Committees and Institutions

International Committees

- European Commission
- International Organisations (UNECE, OECD, WHO, World Bank, EIB, CEDR, ERF, IRF, PIARC, UITP, ETSC, ECTRI, WCTR, TRB, IEEE, ITSS)

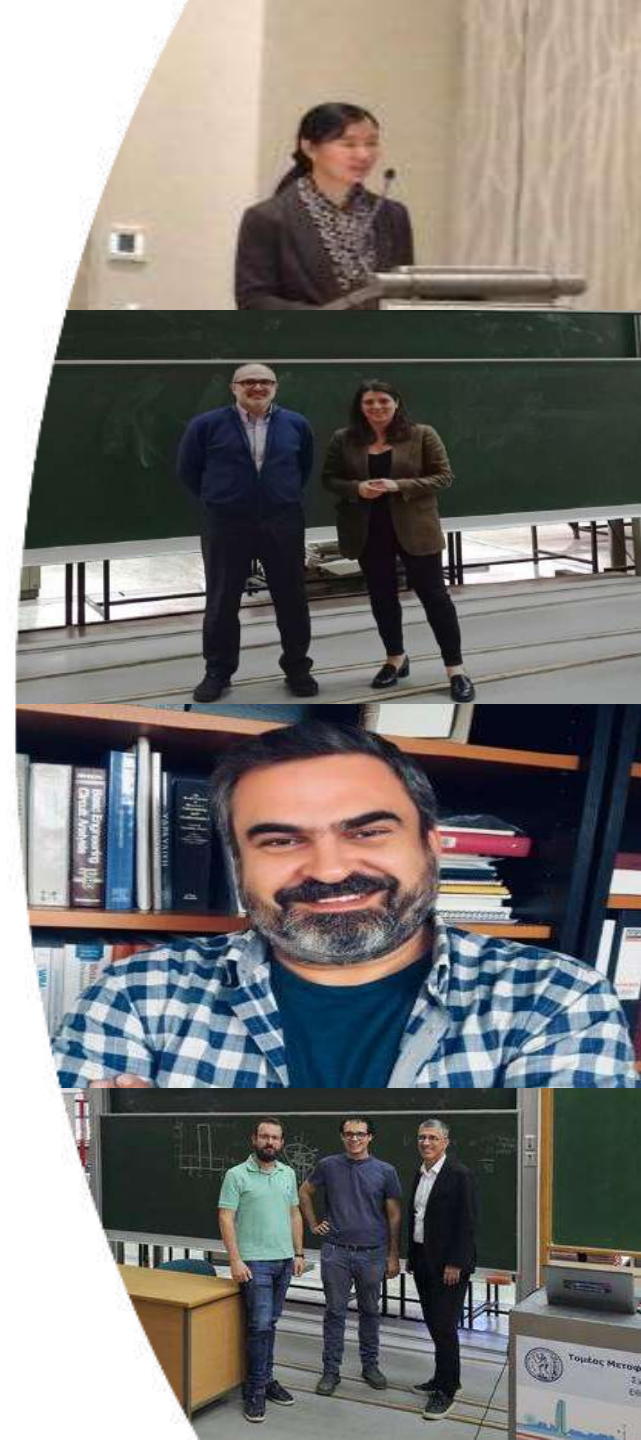
Greece

- OASA, STASY, Public Works Council, Government Road Safety Committee



Scientific Lectures

- **Xumei Melanie Chen**, Professor School of Traffic and Transportation, **Beijing Jiaotong University** (Online Seminar)
«Environmental Impact of Connected and Autonomous Vehicles considering Platooning with Buses in Urban Scenarios»
(March 2024)
- **Constantine Kyriazis**, **Cityzen Parking & Services CEO**
«The parking of the future is here: Operation of 360° parking spaces & new technologies»
(April 2024)
- **Pantelis Kopelias**, Associate Professor, **School of Engineering of the University of Thessaly** *«Motorway operation, traffic and emergency management and the specification of special roads»*
(May 2024)
- **Eng. Roberto Ventura**, Assistant Professor, **University of Brescia (Italy)**
«Traffic Hazard on Main Road Bridges: Real-Time Evaluation and Management of the Risk Related to Design Load Overcoming Events»
(October 2024)



Scientific Lectures

- **Chrysostomos Rizomyliotis**, Managing Partner of **Denco Transport Ltd**
«*Traffic Studies – Sustainable Urban Mobility Plans*»
(November 2024)
- **Peter Savolainen**, Research Foundation Professor and Chairperson of the
Department of Civil and Environmental Engineering at Michigan State
«*Relating Available Stopping Sight Distance to Crash Risks: Insights from NCHRP 15-75*»
(November 2024)
- **Anastasia Pneumatikou**, Head of Traffic Planning and Studies of the **Nea Odos company, Central Greece road**
«*Road Safety in practice: The case of PATHE (Transformation of Skarfeia)*»
(December 2024)



Website

- **Continuous updating**
(30 posts within 2024)
- **Full lists** of Members,
1346 Diploma Theses,
43+43 PhD Theses,
404 Research Projects, Lectures
- Reposting on **social media**
- **High Visibility**
(150.000+ pageviews annually)

The screenshot shows the website for the Department of Transportation Planning and Engineering at NTUA. The header includes the department name and navigation links: Home, About, People, Education, Research, Laboratories, News, Links, Contact. The main banner features a hand interacting with various digital icons, with the text "Focusing on Innovative Research". Below the banner, there are sections for "Welcome", "Latest News", and "Transport Tools". The "Welcome" section contains the department's mission and vision statements. The "Latest News" section lists several recent events and publications. The "Transport Tools" section lists various research centers and observatories, including the Department of Transportation Planning and Engineering, NTUA Road Safety Observatory, and NTUA Athens Mobility Observatory.



Digital Governance

- **Cloud** with all files online
 - Fully tidy & easy to use archive
 - Standardized **coding** of all files
- Standard operating **procedures**
 - Systematic **role allocation**
 - Continuous service line **1285**
- Optimal **Infrastructure** Management

DT

*With system and perseverance
against all odds*

Τομέας	Administration	A
Γενική Συνέλευση	GeneralAssembly	dta
Πρωτόκολλο	Registry-In/Out	dti/o
Οικονομικά	Budget	dta
Ενημέρωση DT Control	DT-Control	-
Πρότυπα έγγραφα	Templates	dta
Αλληλογραφία	-	-
Εκλογές Διευθυντών Τομέα/ Εργαστηρί	Elections	dta
Φόρμες, Αιτήσεις (εκτός Τομέα)	Forms	
Τεχνικό και Διοικητικό Προσωπικό	Staff	dta

Εκπαίδευση	Education	E
Πρόγραμμα μαθημάτων	CoursesProgram	dte
Πρόγραμμα εξεταστικής - Επιτηρήσεις	ExamProgram	dte
Συγγράμματα	TeachingMaterial	dte
Διανομή σημειώσεων	-	-
Προετοιμασία εξετάσεων	-	-
Καταχώρηση βαθμολογιών	-	-
Διπλωματικές Εργασίες	Diploma Theses	dtd
Απαλλαγές	StudentExemptions	dte

Έρευνα	Research & Postgrad	R
Ερευνητικά Έργα	ResearchProjects	dtr
Υποψήφιοι Διδάκτορες	PhdCandidates	dtp
Επικουρικά	PhD-Assistance	dtp
Υποτροφίες ΕΛΚΕ	ELKE-Scholarships	dtp
Πανεπιστημιακοί Υπότροφοι	PhD-Teaching	dtp

ΔΕΠ	Faculty	F
Εξειδίκευση καθηκόντων	FacultyTasks	dtf
Ορισμός Διδασκόντων	TeachingAssignments	dtf
Εξέλιξη μελών ΔΕΠ	FacultyElections	dtf
Μητρώο εκλεκτορικών σωμάτων	DisciplinesList	dtf
ΕΔΙΠ	TeachingAssistants	dtf
Άλλα έγγραφα μελών ΔΕΠ	FacultyOther	dtf
Άδειες Απουσίας μελών ΔΕΠ	AbsenceForm	dtf

Υποδομές	Infrastructure	I
Συντήρηση	-	dti
Βλάβες	InfraFailures	dti
Καταστροφές οργάνων	InfraEquipment	dti

Επικοινωνία	Communication	C
Δικτυακός Τόπος Τομέα	DTWeb	dtc
Παρουσίαση Τομέα	DT-Profile	dtc
Παρουσίαση Εργαστηρίων	-	dtc
Παρουσίαση Μελών Τομέα	-	dtc
Εκδηλώσεις	Events	dtc
Πολυμέσα	Media	dtc
Ανακοινώσεις	Announcements	dtc



NTUA Road Network Upgrade

Active contribution:

- Design and supervision of implementation of the new road network **asphalt** pavements
- Design and supervision of the installation of **speed reduction devices**
- **Assessment of Road Safety and Operation** of the Road Network
- Road **Markings and Signs** Study
- **Information Signs** Study



High Societal Impact

Integrated Communication Policy

- 32 newspaper/magazine articles
- 25 interviews in the electronic media
- 20 presentations in conferences/webinars
- 34 social media posts
- 200 republished posts from scientific organisations and institutions
- Campaign to promote 30km/h speed limit in cities worldwide, running 30 Marathons in 30 months
- 500.000+ pageviews per year
- Network with thousands of contacts in Greece & internationally



George - 30 Marathons - 30 Months



We start in 2025
with the **best prospects**

with a Plan
with new challenges
with research projects
with our students
with the best Team
and with extra surprises 😊





New Year Event at the Department of Transportation Planning and Engineering

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