

PERSONAL INFORMATION**Amalia Polydoropoulou**

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🌐 <https://sites.google.com/site/amaliapolydoropoulou/home>

Date of birth 7 June 1967 | Nationality Greek

CURRENT POSITION**Professor**

University of the Aegean

Director of the "Transport and Decision Making" Laboratory (TransDEM)"

EDUCATION

February 1997

Doctor of Philosophy in Transportation Systems and Decision Sciences**Massachusetts Institute of Technology**, Department of Civil and Environmental Engineering

- Dissertation work under Professor Moshe Ben-Akiva: Modeling User Response to Advanced Traveler Information Systems (ATIS).

January 1991

Master of Science in Transportation Systems**Massachusetts Institute of Technology**, Department of Civil and Environmental Engineering

- Thesis under Professor Moshe Ben-Akiva: The Impact of Real-Time Traffic Information on Drivers' Route Choice Behavior.

October 1990

Diploma in Civil Engineering**National Technical University of Athens (NTUA)**, Civil Engineering Department

- Thesis under Professors K. Abakumkin and A. Stathopoulos

HONORARY DISTINCTIONS**Scholarships for the academic years 1991- 1997**

Massachusetts Institute of Technology

Nominee for the "Best Teacher Award 1994", Civil Engineering Department

Massachusetts Institute of Technology

Scholarships for the academic years 1986-1989

State Scholarships Foundation

Academic and Scientific Excellence—Ministry of Education, Religion and Athletics

Scientific responsible for the research

“Study of the Transport and Driving Behavior of the Teenagers” which received one of the highest grades during the evaluation of 230 Actions by the National Research and Technology Council in 2012. (More information (in Greek)at: <http://excellence.minedu.gov.gr/listing/124-driving-behavior>).

2013 Ryuichi Kitamura Paper Award in Travel Analysis Methods - Transportation Research Board (TRB)

Washington DC, January 2014; TRB, Section on Travel Analysis Methods Paper: Kamargianni, M., and A. Polydoropoulou (2013). “Hybrid Choice Model to Investigate Effects of Teenagers’ Attitudes Towards Walking and Cycling on Mode Choice Behavior.” *Journal of the Transportation Research Record*, Vol.2382-Travel Behavior(1), pp.151-161.

WORK EXPERIENCE

September 2020-2022	Director of the Postgraduate Studies Program in “Shipping, Transport and International Trade” University of the Aegean
September 2014-September 2018	Vice Rector of Research, Development, Finance and Infrastructure University of the Aegean
January 2013 –August 2014	Head of Department Department of Shipping, Trade and Transport, University of the Aegean
September 2010 - now	<ul style="list-style-type: none">• Professor• Director of the “Transport and Decision Making” Laboratory (TransDEM) Department of Shipping, Trade and Transport, University of the Aegean
September 2011 – January 2013	Deputy Head of Department Department of Shipping, Trade and Transport, University of the Aegean
September 2009 – September 2011	<ul style="list-style-type: none">• Director of the Postgraduate Studies Program in “Shipping, Transport and International Trade”• President of the Institute for Shipping and Transport and Maritime Studies K.M. Lo (INSTAL) of the University of the Aegean
September 1999 – September 2005	<ul style="list-style-type: none">• Assistant Professor• Assistant Director for the Postgraduate Studies Program in “Shipping, Transport and International Trade” Department of Shipping, Trade and Transport, University of the Aegean
October 2003 – December 2003	Visiting Professor Massachusetts Institute of Technology
September 1997 – September 1999	Teaching (P.D. 407/1980) Department of Shipping, Trade and Transport, University of the Aegean

TEACHING ACTIVITY

Erasmus+ Mobility at Shanghai Maritime University
July 2016

Postgraduate Studies Program in “Shipping, Transport and International Trade”

Department of Shipping, Trade and Transport, University of the Aegean

- Course “Advanced Transport System Analysis” academic years 1998-1999, 1999-2000, 2000-2001, 2001-2002, 2002-2003, 2004-2005, 2008-2009, 2009-2010, 2010-2011, 2012-2013, 2013-2014, 2015-2016, 2017-18, 2019-2020, 2020-2021, 2021-2022, 2022-2023
- Course “Research Methodology”, academic years 1999-2000, 2000-2001, 2001-2002, 2017-2018, 2018-2019, 2019-2020, 2020-2021, 2021-2022, 2022-2023, 2024-2025
- Course “Data, Models and Decision Making” academic years 1998-1999, 1999-2000, 2000-2001, 2001-2002, 2002-2003, 2004-2005, 2008-2009, 2009-2010, 2010-2011, 2012-2013, 2013-2014, 2014-2015, 2015-2016, 2023-2024
- Course “Transport Economics”, academic years 1998-1999, 1999-2000, 2000-2001, 2001-2002

Postgraduate Studies Program “MBA in Shipping” UAegean

Course “Quantitative Methods” 2020-2021, 2021-2022, 2022-2023, 2023-2024, 2024-2025

Course “Trade Flows and Freight Demand Modeling” 2020-2021, 2021-2022, 2022-2023

Postgraduate Studies Program “Climate Crisis and Information and Communication Technologies” at University of Piraeus

Course “Logistics and Climate Change” 2020-2021, 2021-2022, 2022 – 2023, 2023-2024

Course “TRansport and Climate Change” 2020-2021, 2021-2022, 2022 – 2023, 2023-2024, 2024-2025

Undergraduate Studies Program at UAegean

Department of Shipping, Trade and Transport, University of the Aegean

Course “Transportation Systems Analysis” 1997- today

Course “Demand Analysis” 1997 – today

Course “Port Management and Operations” 2020

SUMMER SCHOOLS

2019 - 2023	<p><u>EN.I.R.I.S.S.T. Conferences/ Summer Schools: Intelligent Research Infrastructure for Shipping, Supply Chain, Transport and Logistics</u></p> <ul style="list-style-type: none"> ▪ Event Organizer ▪ Athens/Greece
2018	<p>July</p> <p><u>STTCAMP 2018: Shipping, Transportation and Trade: Current Advances and Market Perspectives, Chios Island</u></p> <p>Department of Shipping, Trade and Transport, University of the Aegean</p> <ul style="list-style-type: none"> ▪ Scientific Director ▪ https://sttcamp2018.pns.aegean.gr/
July	<p><u>STTCAMP 2017: Shipping, Transportation and Trade: Current Advances and Market Perspectives, Chios Island</u></p>

2017

Department of Shipping, Trade and Transport, University of the Aegean

- Course organiser and Scientific Director

- <https://sttcamp2017.pns.aegean.gr/>

. The course offers advanced knowledge to comprehend the rapid changes in the shipping and transport market structure, identify their drivers and better understand strategies of world shipping and transportation leaders.

2016

July **STTCAMP 2016: Shipping, Transportation and Trade: Current Advances and Market Perspectives, Oinousses Island & Chios Island**

Department of Shipping, Trade and Transport, University of the Aegean

- Course organiser and Scientific Director

- <https://sttcamp2016.pns.aegean.gr/>

▪ The course offers advanced knowledge to comprehend the rapid changes in the shipping and transport market structure, identify their drivers and better understand strategies of world shipping and transportation leaders.

2015

July **STTCAMP 2015: Shipping, Transportation and Trade: Current Advances and Market Perspectives, Oinousses Island & Chios Island**

Department of Shipping, Trade and Transport, University of the Aegean

- Course organiser and Scientific Director

- <https://sttcamp2015.pns.aegean.gr/>

▪ The course offers advanced knowledge to comprehend the rapid changes in the shipping and transport market structure, identify their drivers and better understand strategies of world shipping and transportation leaders.

STTCAMP 2014: Shipping, Transportation and Trade: Current Advances and Market Perspectives for World Shipping Leaders, Chios

July 2014

Department of Shipping, Trade and Transport, University of the Aegean

- Course organiser and Scientific Director

- <https://sttcamp2014.pns.aegean.gr/>

▪ The purpose of the program is to offer extensive knowledge to Shanghai Maritime University Students and other transport researchers, PhD students and young professionals, concerning the function of the transport and maritime markets and the study of the business perspectives origins.

STT Camp Summer Course, Shipping & Transport Markets and Business Perspectives, Chios

June 2013

Department of Shipping, Trade and Transport, University of the Aegean

- Lecturer and workshop organizer

- <https://sttcamp2013.pns.aegean.gr/>

The purpose of the program is to offer extensive knowledge to transport researchers, PhD students and young professionals, concerning the function of the transport and maritime markets and the study of the business perspectives origins. The program offers specialized knowledge for the better understanding of the structure of the aforementioned markets and aims to offer to the participants an advanced perspective on the planning of transport, economics, policy and management.

September 2013

MULTITUDE, Chios

- Local organizer

- <http://www.multitude-project.eu/its-school.html>

▪ In the context of the European Action COST, titled MULTITUDE and on the topic of calibration and evaluation methods' for transport simulation, the 3rdMULTITUDE Summer School is organized in cooperation with the Aegean University. During the program, the participants are trained on Intelligent Transportation Systems, ITS. During four intensive days, it provides attendants training on the evaluation of Intelligent Transportation Systems (ITS) measures, including the core methodologies for the quantification of the impacts, the

multi-criteria analysis and the management of uncertainty. Several case studies are presented and a practicum guided attendants through the application of the whole assessment process. The school is targeted to graduate and PhD students, engineers, researchers, consultants and government employees who wished to improve their understanding of the assessment of ITS solutions.

August 2012 **Program Aegean STT CAMP 2012: Aegean Summer Training in Transport – Competitiveness Assessment & Management Policies(August, 24th 2012 to September, 2nd)**

Department of Shipping, Trade and Transport, University of the Aegean

- Project Director
- <https://sttcamp2012.pns.aegean.gr/>
- The summer course includes lectures, round tables, and hands on experience with policy tools and case studies. Lecture topics: The Transport market structure, The Transport Chain, Maritime Markets, Forecasting & Urban Transport, Innovative Air Transport and Port Business, Transport Infrastructure and PPPs. Round Tables: European Transport Policy Issues, Policy Analysis & Development, Policy shift to rail and sea: The importance of terminals in the supply chain, Trading on uncertainty within a changing market and regulatory environment, Innovation Requirements in Transport Infrastructure Development, Maintenance and Operation – Facing uncertainty in traffic forecasts. Policy Tools: the Athens Case (urban), the Faro Case (air), the Antwerp Case (port). Collaboration from Transportnet: University of the Aegean, IST Lisbon, University of Antwerp.

June 2012 **PACTS Summer Course, Policy Analysis for Complex Transport Systems, Sao Miguel Island, Azores, Portugal**

Department of Shipping, Trade and Transport, University of the Aegean

- Course organiser and Scientific Director
- www.pacts-eu-us.net
- The course was organized in the context of the EU/US Policy Oriented ATLANTIS Project “PACTS” - “Policy Analysis for Complex Transport Systems” in the Azores (Portugal). Collaboration between two United States universities (MIT and UMASS) and three European universities (University of the Aegean, University of Antwerp, and IST Lisbon) in the area of “Policy Analysis for Complex Transport Systems”. The project involves the organization and offering of one-week intensive course in Azores. The course was offered to practitioners and the proposed program will NOT only contain the traditional material covered in engineering or management schools in the fields of transport and logistics, but it will focus on actual case studies and models that have been developed both in EU and U.S.

August 2002 **URIT Summer Programs, “User Response to new Transport and Telecommunication Systems”, Chios**

MIT University and University of the Aegean, Department of Shipping, Trade and Transport

- Course co-organizer
- 3 week-training-program in Chios with students from Europe (University of the Aegean, Technical University of Delft, University of Napoli) and the U.S.A. (MIT, Northwestern University, North Carolina A&T) on the topic of “Users’ Response on innovative Transport and Telecommunication Systems”.

July 2001 **URIT Summer Programs, “User Response to new Transport and Telecommunication Systems”, MIT**

MIT University and University of the Aegean, Department of Shipping, Trade and Transport

- Course co-organizer
- 3 week-training-program at MIT with students from Europe (University of the Aegean, Technical University of Delft, University of Napoli) and the U.S.A. (MIT, Northwestern University, North Carolina A&T) on the topic of “Users’ Response on innovative Transport and Telecommunication Systems”.

SYMPOSIUM

Road Safety Symposium "Road Safety. European Reality and Perspectives, an Interdisciplinary Approach"

- Organizer
- <http://www.stt.aegean.gr/el/2008-02-19-16-50-50/2011-05-20-07-31-01/236--l-r-24-25-2010.html>
- The University of the Aegean in cooperation with the Prefecture of Chios, the Sectoral Committee of Mental Health of Chios, the Direction of Secondary Education of Chios, the Road Safety Institute "Panos Mylonas", the Hellenic Institute of Transportation Engineers, and the Institute of Shipping and Transport Applications K.M.Lo S.A. (IN.S.T.A.L. S.A.) held a 2-day Symposium entitled "Road Safety. European Reality and Perspectives, an Interdisciplinary Approach" in Chios on the 24th and 25th of September 2010. More than 40 world-wide famous experts, scientists and NGO participated in the symposium. Prof. Polydoropoulou was the leader of the Organizing Committee.

WORKSHOPS

Green Islands and their Transition towards Climate Neutrality – Nov. 2024

- Organizer
- One day conference focused on showcasing projects related to the transition of islands toward climate neutrality. The event highlighted initiatives in sustainable energy, smart mobility, and green logistics, demonstrating how these projects align with the broader goals of creating climate-resilient, green islands. Topics covered included innovative strategies and technological advancements aimed at achieving sustainability and reducing environmental impacts in island regions.

15 November 2024

EN.I.R.I.S.S.T. (Intelligent Research Infrastructure for Shipping, Supply chain, Transport and Logistics)

- Organizer
- The Department of Shipping, Trade and Transport of the University of the Aegean held a 1-day Workshop in Athens on the 18th of September 2019 to present the Research Infrastructure EN.I.R.I.S.S.T. and collect insights from different stakeholders. More than 110 stakeholders, scientists, academics, policy makers participated in the workshop. Prof. Polydoropoulou was the leader of the Organizing Committee.
- The Department of Shipping, Trade and Transport of the University of the Aegean held a 1-day Workshop in Athens on the 25th of October 2022 to present the Research Infrastructure EN.I.R.I.S.S.T.. ENAPIΣTEIA 2022 «The role of the Research Infrastructure EN.I.R.I.S.S.T. in Shipping, Supply Chain and Transportation in the 21st Century».

EN.I.R.I.S.S.T. Plus (Intelligent Research Infrastructure for Shipping, Supply chain, Transport and Logistics+)

- Organizer
- The Department of Shipping, Trade and Transport of the University of the Aegean held a 1-day Workshop in Athens on the 9th of May 2023 to present the Research Infrastructure EN.I.R.I.S.S.T. + and collect insights from different stakeholders. Stakeholders, scientists, academics and policy makers participated in the workshop. Prof. Polydoropoulou was the leader of the Organizing Committee. The title of the workshop was "Innovation in Shipping, Transport and the Supply Chain: Research Challenges"
- The Department of Shipping, Trade and Transport of the University of the Aegean organizes a 2-days Workshop in Chios, Greece on the 25th and 26th of June 2023 to present the Research Infrastructure EN.I.R.I.S.S.T. + and the services it can provide. Stakeholders, scientists, academics and policy makers are invited to this workshop. Prof. Polydoropoulou will be the leader of the Organizing Committee. The title will be "EN.I.R.I.S.S.T. PLUS = Research Excellence + Smart Expertise + Regional Entrepreneurship"

HARMONY2020

- Organizer

- A 2-days Workshop in Athens on the 7th and 8th of November 2022 was held in Athens, National Technical University of Athens, to present the HARMONY2020 project platform. Stakeholders, scientists, academics, students and policy makers participated in the workshop.

LIFE-LONG LEARNING EDUCATION

Department of Shipping, Trade and Transport, University of the Aegean, Continuous Education on Integrated Maritime and Transport System Management

Scientific Director

The aim of the lifelong learning program entitled “Integrated Maritime and Transport System Management” is to train scientists on Organization and Business Administration, as well as on issues of administration, planning and scientific support of the national and regional policies’ application, action in the field of Transport and Trade with emphasis on the internationally competitive field of shipping as well as freight and passenger transport. The program will be offered by the Department of Shipping, Trade and Transport of the University of the Aegean, based on Chios, the Department of Maritime Studies, University of Piraeus and the Department of Civil Engineering, Aristotle University of Thessaloniki. The aim of the program is to produce specialized staff with interdisciplinary and multilevel training, in addition to offering its students –from different undergraduate programs (engineers, economics and shipping)- the chance to acquire a combination of advanced and up-to-date knowledge for targeting high-level positions on the sectors of shipping, transport and international trade in the private and public sector.

RESEARCH PROJECTS

0.6.2025-06.2029

(Funding: Horizon Europe)

Link:

<https://cordis.europa.eu/project/id/101215174>

<https://www.linkedin.com/company/justsafe-eu/>

12.2024-11.2027

(Funding: Driving Urban Transitions 2024 call)

Link:

<https://dutpartnership.eu/projects/perseus>

<https://www.linkedin.com/company/perseus-15mc>

08.2024-2027

(Funding: Interreg Europe 2021-2027 Program)

JUSTSAFE

Leading the UAegean participation in the consortium

JUSTSAFE project aims to design and implement just and inclusive strategies for enhancing climate resilience and digital transitions, prioritizing the most vulnerable and marginalized social groups such as the elderly, children, women and girls in all their diversity and individuals with disabilities who disproportionately suffer from climate change impacts. The project underscores the necessity of local authorities making direct investments that impact vulnerable communities significantly. A recent workshop, "Digitalization for Climate Action: Co-Creation, Collaboration and Just Transitions," highlighted the importance of co-creative digital activities for inclusive participation, activism's role in digital and climate spheres, the engagement of political actors in prioritizing climate measures, and the support for sustainable innovations in cities to prevent the exclusion of vulnerable groups. This project aligns with the EU Mission Adaptation to Climate Change, promoting a comprehensive approach to inclusive adaptation to climate change.

Perseus

Project Coordinator

The PERSEUS project proposes a rapid, responsive indicator approach to supply decision-support evidence for 15mC and sustainable mobility planning. The indicator approach, based on recent advances in rapid planning models and surrogate modelling), adds the robustness and responsiveness of transport models to the rapidity and adaptability of existing data-analytics -based indicators. The overall objective of PERSEUS is to assist 15mC planning with rapid, robust, and accessible evidence. The project is characterized by four specific objectives. The first two objectives focus on the scientific development, and the last two focus on the evidence provision in decision making in the context of mobility planning and policy making.

Objective 1. Develop rapid, highly responsive, and model-agnostic methods to quantify key 15mC indicators.

Objective 2. Integrate key 15mC indicators to evaluate the 15mC potentiality of neighbourhoods.

Objective 3. Develop decision-support tools to lower the barriers of innovation adoption.

Objective 4. Identify implementation and involvement pathways for democratised planning.

MaaS Solutions

Advisor

MaaS Solutions aims to address urban mobility challenges through digital solutions and strategies like

Link:
<https://www.interregeurope.eu/maasolutions>

08.2024-2027

(Funding: Horizon Europe)

Link:
<https://cordis.europa.eu/project/id/101147942>
<https://green-turn.eu/>

16.03.2022-10.03.2025

1/06/2023 – now (ending
31/09/2026)

1/10/2023 – now (ending
31/9/2026)
(Funding: Horizon Europe)

Link:
<https://cordis.europa.eu/project/id/101096000>
<https://research.dblue.it/di-pegasus/>

1/5/2023 – now (ending
31/9/2026)
(Funding: Horizon Europe)

Link:
<https://cordis.europa.eu/project/id/101103801>
<https://www.geminiproject.eu/>

Mobility as a Service (MaaS). The project focuses on improving governance and facilitating the transformation towards intermodal and sustainable transport systems, making it easier for citizens to access and choose greener mobility options. As an Advisory Partner is responsible for the territorial analysis that will guide the project's investigation of MaaS in MaaS Solutions' regions. UAEGEAN's role includes providing comprehensive analysis, collecting end-user data, and offering insights into the MaaS ecosystem to support the project's successful implementation. (Founding: *Interreg Europe 2021-2027 Program*)

GreenTurn

Leading the UAegean participation in the consortium

GreenTurn brings together a diverse range of e-commerce stakeholders to co-create zero-emission logistics solutions, provide sound and transparent information on e-commerce footprints, and enable more sustainable delivery and return choices. I led the design of the SP questionnaires for Choice of Deliveries (decision to e-shop; location of delivery: home, parcel locker, click and collect; mode of transport) and Returns (decision to return; location of return: home, parcel locker, return to the store; mode of transport) including incentives and nudges that can impact the decision-making of customers. I was responsible for the estimation of Revealed and Stated Preferences hybrid choice models for six countries and compared willingness-to-pay for more environmental friendly modes (csrcgo-bikes, delivery robots), different types of products, nudges and incentives and alternative delivery/return options amongst countries. (Funding: *Horizon Europe*)

MaaS for Qatar

Project Co-ordinator

MaaS for Qatar project aims to address the challenges posed by urban population growth and increased travel demand in cities, particularly in Qatar. It recognizes that Information and Communication Technologies (ICT) can play a crucial role in developing efficient intelligent transport systems (ITS) and interconnected multimodal transportation solutions. These technologies are expected to transform personal mobility, ushering in innovations like Mobility as a Service (MaaS) and autonomous vehicles, which will require the adaptation of transportation models and theories. MaaS for Qatar project's objectives include the development of machine learning algorithms for data analysis, fostering socially-responsible behaviors through MaaS, creating multimodal demand and flow characterization frameworks, and adapting transportation networks to accommodate technological advancements. Additionally, innovative business models and regulatory framework recommendations will be explored to support sustainable MaaS implementations in Qatar (Founding: *Qatar National Research Fund (QNRF), Project number: NPRP13S-0130-200211*).

NAVGREEN

Researcher

The NAVGREEN project aims to improve the environmental sustainability of the maritime industry. It focuses on various key aspects, including the utilization of alternative fuels, enhancement of energy efficiency in both ships and ports, deployment of cutting-edge digital technologies for improved operational management, and the promotion of recycling and biofuel adoption. The project involves the development of a methodology based on multi-criteria analysis (MCDA) methods, along with a tool to optimize the proposed solutions. The effectiveness and validity of the project's methodology is verified through two case studies, one involving an ocean-going vessel and another featuring a ferry operating in the Greek Islands. Throughout the project, ongoing collaboration is maintained with relevant agencies, institutional researchers, shipping companies, design offices, marine equipment manufacturers, and associations. Rigorous monitoring ensures that all activities align with the principles of the European Green Deal (Founding: *National Recovery and Resilience Plan Greece 2.0*).

Di-PEGASUS

Leading the UAegean participation in the consortium

Di-PEGASUS overall objective is to enable fully autonomous cost-effective and environmentally friendly operations for seaplanes, VTOL and drones. This objective will be achieved by developing several enabling technologies targeting both the air and the ground side. In addition, Di-PEGASUS proposes to develop a digital platform to evaluate the viability of specific business models at particular locations, according to the digital technologies available, and the Key Performance Indicators (incl. cost-effectiveness, job creation, emissions savings, investment costs), in order to make recommendations to policy makers and relevant stakeholders that will host these services. This platform should also support the assessment of regulatory compliance to identify the safety assurance process that the technologies will need to follow, as well as the gaps in existing regulations that will need to be addressed (Founding: *Horizon*).

GEMINI

Leading the UAegean participation in the consortium

GEMINI's vision is to accelerate the progress towards climate neutrality by reinforcing modal shift through the demonstration and uptake of new shared mobility services, active transport modes, and micromobility and their integration with PT in new generation MaaS services. Drivers of this transition will be the GEMINI Mobility Living Labs (MLL) in 8 mission cities (Amsterdam, Copenhagen, Helsinki, Ljubljana, Munich, Paris, Porto and Turin), engaging local communities in the implementation of their SUMP and the co-creation, development and adoption of promising innovative mobility solutions. The MLLs will stimulate improved access to PT whilst introducing sustainable mobility business models in urban and peri-urban contexts, in turn leading changes in mobility patterns and behaviours, aimed at less car-centred urban mobility systems (Founding: *Horizon*).

10/2022 – 10/2023

2023 - 2024

Link:

<https://cordis.europa.eu/project/id/101094021><https://www.climas-project.eu/>2023 – now (ending
12/2025)

Link:

<https://cordis.europa.eu/project/id/101069892/reporting><https://greenlog-project.eu/>

2023 – now (end Nov. 2024)

Link:

<https://cordis.europa.eu/project/id/101096664><https://www.spine-project.eu/>

June 2022 – June 2024

June 2021 – June 2024

(Funding: EU H2020)

Link:

<https://cordis.europa.eu/project/id/101006900><https://wettransform-project.eu/>

January 2021 – Sept. 2023

(Funding: Operational Programme “Competitiveness, Entrepreneurship and Innovation” (NSRF 2014-2020) and co-financed by Greece and the European Union)

Link: <https://enirisst-plus.gr/>

June 2019 – May 2023

(Funding: H2020)

Link:

<https://cordis.europa.eu/project/id/815269>

Irradiate

Irradiate promotes the work and outcomes of the two projects of EN.I.R.I.S.S.T and EN.I.R.I.S.S.T plus

Climas

Leading the UAegean participation in the consortium

CLIMAS will accelerate the transformation to climate resilience by (i) identifying and describing the underlying mechanisms to empower citizens and enhance their deliberation participation; (ii) mapping and reviewing underlying tools and toolkits that can support citizen engagement and deliberation; and (iii) developing innovative actions through citizens engagement mechanisms praxis (e.g. climate assembly) as well as reflect on accountability discrepancies to create insights, proposals, and suggestions that support the policy making process better.

Greenlog

Leading the UAegean participation in the consortium

GreenLog accelerates systemic changes in last mile delivery ecosystems for economically, environmentally and socially sustainable city logistics. Pilots will involve cargo-bike based innovations for sustainable micro-consolidation design and deployments, multimodal parcel deliveries integrating public transportation, Logistic as a Service platforms for interconnected city logistics and automated delivery concepts with the use of autonomous vehicles and delivery droids (*Founding: Horizon*).

ResPorts

Co-ordinator

ResPorts aims to increase the knowledge of the effects of Climate Change on Greek ports and to model the associated risks, impacts and vulnerability. ResPorts involves data collection for: i) Relevant Port Economic Data (e.g. demand, connectivity, cargo handling) and ii) Geo-spatial (satellite) and technical infrastructure characteristics (wave propagation, maritime access orientation, depths, mechanical equipment etc.). Living hubs will be developed in selected Greek ports of different size and impact to develop a process mapping for adaptation of ports to the climate hazards.

SPINE

Leading the UAegean participation in the consortium

SPINE aims at accelerating the progress towards climate neutrality by reinforcing Public Transport systems through their smart integration with new mobility services, connected and automated mobility, sharing schemes, active transport modes, and micromobility. 11 mission cities are engaged in the implementation of their SUMP and the co-creation, development, uptake and the broad adoption of promising innovative mobility solutions. A White Label Mobility as a Service (MaaS) will be developed and demonstrate a sustainable MaaS business model that will integrate “traditional” travel modes (such as PT, taxis and car rentals/leasing) with emerging technology-led services station based or free floating (such as ride-hailing and car/bike/scooter – sharing), along with other multi-service non-transport related offerings, such as parking capacity for private vehicles and electric charging stations for e-vehicles (*Founding: Horizon*).

FRONTIER

Consultant

FRONTIER aims to provide the network and integrated traffic management strategies of the future. FRONTIER develops, applies and tests autonomous management systems, secured by design, that will constantly evolve using data generated from real-time monitoring of the transportation system, knowledge generated by operators and decision makers, and simulation models providing system optimal solutions accounting for new mobility services and technologies.

WE-TRANSFORM

Leading the UAegean participation in the consortium

Leveraging existing data and people’s expertise, WE-TRANSFORM will create a cross-national living hub as a knowledge and action platform, offering a path forward for smarter decisions, more innovative and evidence-based policymaking, through accountable and informed governance. TRANSDem’s role in WE-TRANSFORM is to explore the transformation of the workforce in the transport sector as a result of impending automation and to co-create knowledge aiming at setting an agenda focused on take action.

EN.I.R.I.S.S.T. Plus (Intelligent Research Infrastructure for Shipping, Supply chain, Transport and Logistics +)

Co-ordinator

This is the expansion of the national research infrastructure in Greece (ENIRISST) in the fields of shipping, supply chain, transport and logistics. The Infrastructure is expanding with a research and business orientation in the fields of transport, supply chain, ports, shipping and tourism. It provides the users with information, tools, and services on the evaluation of port services, the use of new technologies (AR, drones, scooters) in logistics, freight and passenger transport, the interconnection and interoperability of transport hubs and major cultural and tourism infrastructures, the digitisation and use of an electronic maritime documentation.

HARMONY (Holistic Approach for Providing Spatial & Transport Planning Tools and Evidence to Metropolitan and Regional Authorities to Lead a Sustainable Transition to a New Mobility Era) – EU H2020 funded program

WP Leader

<https://harmony-h2020.eu/>

May 2019 – March 2023

(Funding: Operational Programme "Competitiveness, Entrepreneurship and Innovation" (NSRF 2014-2020) and co-financed by Greece and the European Union)

Link: <https://www.enirisst.gr/?lang=el>

June 2017 – June 2020

Funding: (H2020)

Link: <https://cordis.europa.eu/project/id/723176>

October 2017 – Feb. 2022

(Funding: COST Action)

Link: <https://wise-act.eu/>

July 2017 – September 2017

April 2016-June 2016

May 2015- June 2018

The HARMONY project envisages developing a new generation of harmonised spatial and multimodal transport planning tools which comprehensively model the dynamics of the changing transport sector and spatial organisation, enabling metropolitan area authorities to lead the transition to a low carbon new mobility era in a sustainable manner. Small-scale demonstrations with Autonomous Vehicles (AVs) and drones take place to understand in real-life their requirements and collect data to be used for modelling. The HARMONY model suite is also linked to the EC's EU-wide model TRIMODE to further identify the impact of the concepts and technologies on the TEN-T level. HARMONY's concepts and the model suite are applied and validated on six EU metropolitan areas on six TEN-T corridors: 1. Rotterdam (NL), 2. Oxfordshire (UK), 3. Turin (IT), 4. Athens (GR), 5. Trikala (GR), 6. Upper Silesian-Zaglebie Metropolis (PL).

EN.I.R.I.S.S.T. (Intelligent Research Infrastructure for Shipping, Supply chain, Transport and Logistics)

Co-ordinator

EN.I.R.I.S.S.T. is funded by the Greek General Secretariat of Research and Technology in the context of the National Strategy for Research, Technological Development and Innovation (2014-2020) in the National Roadmap of Large Scale Research Infrastructures. The project aims at formulating a business intelligent platform in Shipping, Transport, Logistics and Supply chain management that will combine business analytics, visualization techniques and technology advanced knowledge, innovation processes, by offering high quality research services to users from different countries, including the peripheral and outermost regions of Europe.

MaaS4EU Project (End-to-end Approach for Mobility-as-a-Service tools, business models, enabling framework and evidence for European seamless mobility) – EU H2020 funded program

WP Leader

MaaS4EU will provide quantifiable evidence, frameworks and tools to remove the barriers and enable a cooperative and interconnected EU single transport market for the MaaS concept, by addressing challenges under four pillars: 1. Business, 2. End-Users, 3. Technology, and 4. Policy. The developed MaaS4EU solutions will be tested in real life to also quantify the impact of MaaS services on end-users' short-term (activity patterns) and mid-term (car-ownership) travel choices, and on energy demand for transport. The case study areas are the Greater Manchester (UK), Luxembourg-Germany, and Budapest (Hungary).

WISE-ACT (Wider Impacts and Scenario Evaluation of Autonomous and Connected Transport) - COST Action

Working Group Leader of Transport Systems (2018-2019)

The WISE-ACT COST Action is a European-wide network that explores the wider impacts of Autonomous and Connected Transport. It focuses on observed and anticipated future mobility trends and implications of automation on travel behaviour, namely car sharing, travel time use or residential location choice to name a few. Within the WG we develop alternative types of surveys to be conducted in a EU level, analyze and compare the attitudes/perceptions/choices of travelers in different countries to capture differences due to social and cultural effects. Working also on business models for connected freight, such as drones for last miles deliveries and autonomous trucks.

National Transport Plan for Greece, University of the Aegean

Development of: (a) the stated preference experiments for mode choice and (b) the mode choice models to estimate the value time for intercity trips in Greece.

Urban Mobility Research at the city center of Chios, Greece

Scientific Director

The aim of this research was to study in depth the urban mobility and parking characteristics at the city of Chios in order to develop the most sustainable solutions to cover users' needs. For this purpose, through data collection on individuals' travel characteristics, Origin - Destination data were collected, parking demand was determined and the most suitable parking locations around the city were chosen.

OPTIMUM Multi-source Big Data Fusion Driven Proactivity for Intelligent Mobility– EU H2020 funded program

OPTIMUM aims to establish a largely scalable, distributed architecture for the management and processing of multisource big-data, enabling continuous monitoring of transportation systems needs and proposing proactive decisions and actions in an (semi-) automatic way. OPTIMUM follows a cognitive approach based on the Observe, Orient, Decide, Act loop of the big data supply chain for continuous situational awareness. OPTIMUMs' goals are achieved by incorporating and advancing state of the art in transport and traffic modeling, travel behavior analysis, sentiment analysis, big data processing, predictive analysis and real-time event-based processing, persuasive technologies and proactive recommenders. The proposed solution is deployed in real-life pilots in order to realize challenging use cases in the domains of proactive improvement of transport systems quality and efficiency, proactive charging for freight transport and Car2X communication integration. Within this project as WP leader on Traveler behavior Prediction Models Prof. Polydoropoulou is responsible for the development of advanced behavioral econometric models for travelers profiling and mode choice behavior. These models have been developed using multiple data sources, such as mobile phone data, stated preference and attitudinal data (via questionnaires) and social media data (from users accounts) and have been integrated into OPTIMUM app for the initial classification of OPTIMUM users. In addition, a dynamic

charging model for freight operators is developed. The hybrid route choice model developed allows the estimation of distributed values of time (VOT) for both freight operators and individual truck drivers. These distributed VOTs are used along with capacity constraints for the calculation of dynamic tolls implementation. .

Transport Research and Innovation Portal (TRIP)

January 2016-April 2016

Collaborated in the **Transport Research & Innovation Portal (TRIP)**, the single portal for information on all transport research and innovation conducted at European and national levels. Member of the team developing the **Cooperative Intelligent Transport Systems** Theme Analysis Report. http://www.transport-research.info/sites/default/files/TRIP_C-ITS_Report.pdf

Educating Young Road Delinquents to Road Safety Using a Driving Simulator

2015-
2016

Scientific Director

This is an action undertaken by the Municipality of Chios, University of the Aegean – Laboratory of Transport and Decision Making Sciences and the Police of Chios aiming at improving teenager's driving behaviour and reducing road accidents.

Evaluation of the installation of countdown systems in pedestrian traffic lights

Scientific Director

The countdown pedestrian unit is an electronic device is associated with the pedestrian traffic lights and displays with bright figures the remaining time before the expiration of the green light. These systems are designed to reduce accidents and optimize the time available for pedestrians to cross the intersection.

The objectives of the study are:

- The pilot application of the countdown in pedestrian intersections in Greece
- Research and evaluate the impact of countdown systems on the pedestrians road safety.
- Investigate the behaviour of the pedestrians while crossing intersection equipped with countdown systems.

December 2014-December
2015

USMART

Scientific Director

The project envisages developing a suit of novel smart mobility services (iServices) based on mobile technology, that will support city residents and visitors/tourists to reach their final destination in the most efficient and suitable way using public and/or private transportation means. All iServices will be developed & demonstrated for mega/sport/cultural events and will exploit content from: (a) public transport organizations (providing traffic information, PTM timetables, routes and fares, station, stop and toll locations, national geographic departments and public information available on the internet, etc); (b) transportation system users (providing real time travel information through their mobile devices); and (c) road transport authorities/operators (traffic monitoring devices, cameras, traffic reports, etc.), (d) network of RF sensors. In addition, a smart-phone application for innovative data collection (SMART app) will be developed, serving as a personal life logger and collecting real time information through sensors (such as Wi-Fi, GSM, GPS). The information acquired will then be validated and customized by the users through a web interface. More specifically, the users will also be asked to provide additional information on their travel, such as if they acquired real time travel information during and/or prior their trip, what was the purpose of each recorded trip, etc. The data collected through this process, will be used for identifying the travel behavior of residents and tourists, their preferences, activities, travel needs, etc. through the estimation of advanced behavioral model, so that to provide customized iServices that will enable travelers to actually practice the expected behavior. Two pilot case studies will take place within the project lifetime. The first one will concern the validation of the SMART app and the estimation of the advanced behavioural econometric models; while the second one will concern the deployment of the iServices during actual mega city events in Athens, Greece and Haifa, Israel.

July 2013 – December 2015

“Development of an Integrated Research Program on Insularity”

Action 6.3-Transport System and Tourist Development at the Aegean Islands

University of the Aegean

Scientific Director

The project is expected to set the foundations for the development of an observatory for transport and tourism in the Aegean islands. More specifically, the project will process existing data and develop the collection methodology to allow continuous updating and usage for supporting the decision making on critical issues for transport and tourism in the Aegean Islands.

February 2013 – August
2016

“Development of Containers’ Movement Models in Port Terminal”

Scientific Director

Understanding and predicting when an import container will be picked up by a truck could greatly improve the efficiency of the operations and resource allocation in a container terminal. This project aims at the development of forecasting models of containers’ movements based on aggregate time series data from different ports of Middle-east and Asia.

December 2011 –
December 2015

“Development of Green Transport In Island Area” (GreTIA) THALIS Program

Scientific Director

Green development is heavily dependent on transportation through the strong seasonality of transportation demand by residents and tourists exacerbating the impact of traffic on congestion, noise and pollution. This project creates a comprehensive green transport policy, research and development action plan for Aegean island areas, accounting for the unique characteristics and growth prospects of the area in its multiple dimensions. This is done through the fusion of ideas, data, and models in four pillars: “travel behavior of resident population”, “tourist preferences”, “environmental analysis”, and “economic and financial evaluation”. The project identifies the factors that affect the study area development by: a) defining the requirements of decision makers; b) investigating individual activity and travel patterns; and c) exploring island destination choice for tourists. Data collection includes network and land use data that characterize living and traveling environments, surveys for residents and tourists, and atmospheric pollution data. Based on this information we develop advanced integrated discrete and latent variable choice models for both tourists and residents to simulate their travel behavior. We also develop environmental and economic models to analyze and evaluate the impact of green transport policies. The final product is a policy platform which includes environmental analysis, travel simulation, and economic analysis. In this way our project uses approaches that are multidisciplinary (e.g., data collection informed by geography, engineering, and environmental science) and based on interdisciplinary research (e.g., discrete choice travel models from economics and engineering) moving one step further in research. Fusion of these ideas, data, and models lead to novel (transdisciplinary) research directions and methods that function as gateways of many other research directions in transportation and environmental science and engineering. (More information at: <http://gretia.aegean.gr/index.php/homegr>).

June 2011 – September 2011

Rural Inclusion Evaluation Program

Project Director

Funded by FP7. The main objective of the project is the evaluation of the electronic platform for rural inclusion.

September 2008 – December
2013

Modeling Teenagers’ Travel and Driving Behavior

Scientific Responsible

This research aims to examine teenagers’ travel patterns to school and to after-school activities, and model their mode choice and their road user behavior. For this purpose, teenagers’ daily and weekend trips, time allocation, involvement in traffic accident, attitudes and perceptions regarding active transport, physical condition, road user behavior, relationship with parents, peer pressure and social networking, and socio-economic characteristics are examined. Advanced hybrid models are developed in order to investigate these relationships. The analysis of the data and the results of models’ estimation could contribute to the development of several transport policies, which will promote active transport, increase environmental consciousness and improve road safety.

Part of this research entitled "Exploring Teenagers’ Travel and Driving Behavior in Rural

Areas" was awarded with the Bronze Medal in Safety/Security pillar in the pan-European contest for young researchers in the transport sector YEAR2010 (Young European Arena of Research 2010). 75 young researchers from 35 countries were candidates in this pillar.

Also, this research received one of the highest grades among 230 Greek researches in the evaluation by the National Research and Technology Council. The research presented at the 1st Academic and Scientific Excellence Conference that took place in Athens, in December 2012, while a documentary video was made for the survey.

(More information (in Greek) at: <http://excellence.minedu.gov.gr/listing/124-driving-behavior>
The specific research is voluntary.

January 2010 – September
2012

Program HERMES (High Efficient and Reliable arrangeMEnts for CroSsmodal Transport)

Researcher

HERMES project provides the development and analysis of new mobility schemes and associated organizational patterns at the interface and interconnection between long distance transport networks and local/regional transport network. Identification of the key requirements of the travelers, the corresponding services and necessary underlying company agreements to provide them, followed by a business plan for the operation. Demonstration in Greece at the corridor of Port of Patras to the Port of Chania in Crete for a period of at least 6 months of field experience. Development of Revealed and Stated Preferences surveys. Discrete choice modeling of travelers' mode choice behavior.

January 2010-September 2012

Program INNOSUTRA (Innovation Processes in Surface Transport)

Researcher

In the past there have been a lot of innovations. Some of these innovations have been assessed, but most assessments did not include the innovation process. As a consequence, the causes of an innovation to be successful or to be a failure are not clear. The work conducted involves the development of case studies with objectives: the assessment of key factors in the success of innovative concepts; the identification of key players involved; the analysis of the adoption process; and the identification of policy intervention initiatives.

September 2005 – June
2009

Program "PAME"– Support Program of the Research Dynamic (ΠΕΝΕΔ) - 2003

Scientific Director

"Development of an Urban Travel Simulation System based on the Activities of Individuals in a Traffic Information Rich Environment". Research Dynamic Support Program, 2003. Funded by the General Secretariat of Research and Technology, August 2005.

The aim is to: (1) Identification of the factors affecting the commuters' behavior in an environment rich in information, such as the socio-economic characteristic, the attitudes and perceptions of the individuals, the traffic information and the tele-communication systems; (2) Development of the new methodological approach for modeling commuters' behavior and their choices in the region of Athens. (3) Data collection through the use of electronic questionnaires and Information Accelerators) in Athens; (4) Estimation of econometric activity-based models for travelers; (5) The development of an urban travel simulation system (PAME System). This tool responds actively to future differentiations of the network and infrastructure, of the transport supply and demand, as well as the offering of advanced traffic information services

January 2005 – June 2008

PYTHAGORASII Program – Support of University Research Groups

Scientific Director

Research Group "Hermes": Research of the technology and electronic economy influence on the Transport Systems and impact analysis on the individuals' activities through the use of simulation.

"The Impact of Electronic Economy and Information Society on the Formation of the Women's Program (focusing on Education/Training and Working Activities) and their Results in the Transport System, Especially in Remote Areas". Funding by the Special Agency for the Management of the Business Program "Education & Initial Professional Training" (Ε.Π.Ε.Α.Ε.Κ. II). Ministry of National Education and Religion, January 2005. Special emphasis is given on the competitiveness improvement of female in the labor market through

tele-working and life-long distance education.

September 2002 –
September 2008

HERACLITUS Program – Research Scholarships with Priority on Basic Research

Scientific Director

“Economic Consequences of the New Technologies’ Application at Maritime Training”. Funding by HERACLITUS Program, Research Scholarships with Priority on Basic Research in the context of: Measure 2.2. “Study Program Reform-Expansion of Higher Education”, Activity 2.2.3. “Postgraduate Studies Programs - Research - Scholarships”. Ministry of National Education and Religion, September 2002. The aims of the research were: (1) the development of a methodology for self-training and distance training for seafarers; (2) the development and estimation of econometric models for forecasting seafarers adoption of distance learning; (3) the study of the economic consequences of the suggested methodology in the shipping industry.

September 2006 –
September 2008

iPORTS Program, EU COMMUNITY INITIATIVE PROGRAMME, INTERREG III B ARCHIMED

Mediterranean areas are lagging behind in the challenge of promoting regional development, as well as secure interregional, cross-border and transnational cooperation. iPORTS main objective is the use of ICTs and telematics for ports to regain their competitive edge and become intelligent and secure development gateways by: developing a strategic plan for iPORTS deployment based on stakeholders requirements and priorities; implementing iPORTALL, a proof of concept pilot application; and defining the exploitation and commercial value of iPORTS products. Dr. Polydoropoulou is Work package Leader for the following WPs: State of the Art and Current Conditions, Stakeholders Analysis and Requirements, and Exploitation Strategy.

June 2002 – May 2005

POET Program -“Prediction Of E_economy impacts on Transport.”

The program was funded by Action “Sustainable Mobility and Intermodality” of the Fifth Framework Program “Competitive and Sustainable Growth” of the European Union. Responsible for the writing of the proposal and coordinator of the filed research in Greece. POET was a two year project funded by the 5th Framework Program “Competitive and Sustainable Growth” of the EU. Involved in the development of a comprehensive conceptual model that integrates physical elements of the transport structure with behavioral aspects of choices, made by various actors (firms and businesses, households and individuals, and governments), related to the movement of freight and passengers. Leader of the Work packages related to the State of the Art, Dissemination of Results and of the Development of Virtual Case Studies to collect insights into the behavioral responses of actors in future situations, situations that do not exist as yet, using Information Acceleration tools. Responsible for the data collection and estimation of choice models that have hitherto only been applied to problems such as telecommuting and travelling behavior to a much wider range of problems, problems involving choices between travel and a whole host of e-Economy alternatives. Final work involves the application of a transport model to the Aegean Region to incorporate the impact of e-mode.

May 2002 – May 2005

“SLIM-VRT” Program Self-Learning Integrated Methodology – Virtual Reality Tool

The project was funded by the Fifth Framework for Research and Technology in Action: Information Society Technology (IST). The main objective the IST project SLIM-VRT “Self Learning Integrated Methodology – Virtual Reality Tool” was to provide an integrated maritime training, onboard and ashore, using interactive multimedia and virtual reality technology. Work involved data collection and analysis of various trainees’ and employees’ profiles: skills, qualifications, training needs and learning styles and career development prospects in the shipping industry. Responsible for the development of a recommender system for on the job training, based on the estimation of a modeling system that predicts the training packages to be offered.

June 2002 – June 2003

Greek Observatory Project

Consultant in the development group for “Tool Designing (Observatory) of National Transport Strategy” realized by the Greek Ministry of Transport. The project “Greek Observatory” involved the development of a decision support system (DSS) for transport development and policy for Greece, funded by the Greek Ministry of Transportation. The core of the project involved the development of a national model system for Greece. Dr. Polydoropoulou developed a Computer Aided Telephone Interview survey for RP and SP data collection on mode choice behavior, between car, train, bus, airplane, and ship for inter-city trips. Estimated the national mode choice models for passengers.

September 2000 – now

Annual coastal shipping and aviation competition study for the Aegean region

Yearly study of the competitiveness among traditional ship, high speed ship and airplane as the modes serving the Greek islands and connecting them with the mainland, taking place from 2001 up to today. The study takes into account the peculiarity of the transport network and geographic configuration of Greece, consisting by the mainland and more than 100 inhabited islands in the Aegean region. Furthermore, the seasonality effects and differentiation of the number and purpose of trips between summer and winter periods, are specifically considered in the multistage data collection effort (spring, summer, and winter periods) and modeling process. The mode choice models developed are suitable for testing travelers’ choices among the following alternative modes: (1) conventional ship; (2) high-speed ferry; and (3) airplane. Separate models were estimated for four different trip purposes. Value of times (VOTs) for different trip purposes and classes of ship fare, direct cost and travel time elasticities, cross elasticities (fast ferry – conventional ship) were calculated.

May 2002 – December 2002

Go-Online- Action 2

This project constituted special action of the broader project of “Educational Support of the Network Program” of the Ministry of Development and is placed among the Business Program of the Third Community Support Framework “Competitiveness”. Action 2 is titled “Encouragement of small-medium enterprises Internet entrepreneurship”. Development of a questionnaire aiming to record the companies’ characteristics and their willingness to pay for online services. The research was carried out at the Districts of the Northern and Southern Aegean, in which the University of the Aegean coordinated the effort.

January 2000 – December 2002

EU-US Cooperation Programme in Higher Education and Vocational Training, Atlantis Program

Dr. Polydoropoulou was responsible for the development of educational programs on the topic of “User Response to Innovative Transportation and Information Technologies”. Members of the consortium included the Universities of: the Aegean (leader), University of Naples, Technical University of Delft, MIT (Leader), Northwestern University, and North Carolina A&T State University.

September 1999 –
September 2000

“RailTrade” Program

Development of questionnaires, data collection and development of transport mode choice models, among train, airplane and bus for inter-urban travel between Athens and Thessaloniki.

June 1998 – June 1999

HELLENIC CHAMBERS TRANSPORT ASSOCIATION

Freight Village Project - The freight village project involved a feasibility-viability study for the development of an “Aegean Freight Village in the Aegean” and was funded by the EU and the Hellenic Chambers Transport Association, in 1998. Responsible for the market research component of the feasibility study. Developed a survey instrument to understand the potential demand for the freight village. Both revealed and stated preferences data on the needs of ship owners, shippers, transport providers, logistics service providers was collected and analyzed. The study demonstrated the island of Lesbos as the appropriate location of the

Aegean Freight Village.

January 2003-January 2005

Department of Shipping, Trade and Transport, University of the Aegean and Volpe National Transportation Systems Center

Study on users' response to innovative information systems. Analysis on data gathered on behalf of Volpe:

(a) Puget Sound Regional Council (PSRC) panel surveys 1997, 2000, 2003. Repeated sample observations for 3 years and 2-day trip diaries data including the following information: (1) trip characteristics, (2) knowledge of alternative traffic information systems, (3) use of such systems and (4) response to the specific information. Development of models revealing (1) the penetration of information systems and frequency of use, and (2) how traffic information can influence daily travel of individuals.

(b) Washington State Department of Transportation (WSDOT) Traffic Conditions Web-Site Survey, 1999. Satisfaction research concerning traffic information usage offered online. Development of online information usage models.

September 1997 – August 1999

Business Management Department, University of the Aegean

"PROODOS" Program. Developments of models for analysis of willingness to pay for services offered by information kiosks. Applications include: (1) Tourist information and (2) E-booking for hotel rooms.

March 1997 – June 1998

MIT and University of North Carolina A&T

Cooperation on the following research programs:

(1) Behavioral analysis of individuals with special needs (over-aged or handicapped) through the development of a model system which includes: (i) A model for latent choice sets, (ii) Latent Variable Models of Attitudes and Perceptions and (iii) Discrete Choice Models.

(2) Development of a questionnaire for the analysis of the individuals' daily activities (activity diary). Study of the behavioral change of the commuters in case of a new rail line construction, connection the residence with the working place.

September 1991-February 1997

Research Assistant at Massachusetts Institute of Technology (MIT)

Subsidized cooperation with the following programs and organizations:

i) MIT Center for Transportation Studies and Intelligent Transportation Systems Research Program

June 1995-February 1997

Development of a model system combining: (1) Models of latent variables, concerning the preferences and the behavior of the commuters; and (2) Discrete choice models, for the knowledge, use and willingness to pay for a traffic information service in the Boston region (SmarTraveler Service).

ii) University of North Carolina A&T

June 1995-February 1997

Development of a questionnaire of electronic form (computerized survey) for revealed preference data selection and stated preference data for the analysis of innovative public transport influence on the users' behavior. Development of respective models.

iii) Volpe National Transportation Systems Center

June 1993-June 1995

Development of an analysis and data selection methodologies' framework for the behavior analysis of commuters vis-à-vis alternative traffic information systems. Development of models combining revealed and stated preference data for the analysis of the drivers' reaction to traffic information provided before and during their travel.

iv) Center for Transportation Studies and ITS Research Program

September 1991-June 1993

Development of models for the forecast of traffic information reception for the route selection.

November 1990-August
1991

National Technical University of Athens Laboratory for Rail and Transport

Analysis of the driving guidance systems' impact on the drivers' behavior. (European Program DRIVE - EURONETT). Development and application in Athens of an experiment using the Pan-Drive route guidance system.

OTHER WORKING EXPERIENCE

January 2016-now

University of California Santa Barbara
Consultant

Long Distance Travel in the California Household Travel Survey (CHTS) and Social Media Augmentation. In this research project we use data from the California Household Travel Survey (CHTS) to develop profiles of long distance travel in California at different geographical scales to be used in a variety of planning activities. Using population synthesis we first create an inventory of long distance travel and estimate statewide vehicle miles traveled (VMT) and out of state VMT by all modes. In parallel, we develop methods to complement the CHTS trip records with data about origins and destinations as well as access and egress trip legs to major stations of the long haul trips. Procedures are also created to associate data drawn from social media with the places that serve as origins and destinations of long distance trips. To achieve this, we process spatial information at multiple scales and explore frequency and duration of trips, selection of the days on which to travel, scheduling to a specific time of day, destination choice, and mode choice. We also test sensitivity to demographic characteristics of travelers and attractiveness of destinations. A plan to create an observatory for ongoing data collection of this type is also created in this project.

July 2011- January 2012

Beirut Container Terminal- Intelligent Port Research (IPR)
Consultant

The project aims at identifying the technologies and systems that support intelligent ports operations. The objectives are to carry out a review of the existing literature on automated container terminals accompanied with an industry research. Existing Automated Container Terminals will be studied in depth in order to analyse the different applied models. Euromax Container Terminal in the Port of Rotterdam, Container Terminal of Altenwerder in the Port of Hamburg, Port of Brisbane are some of the case studies that will be investigated. Furthermore, the deployment of Automated Container Identification Systems (Optical Character Recognition Systems and Radio Frequency Identification Systems) aiming to capture, recognise and record container IDs and to check or any possible damage will be investigated. The deployment of eSeals and the possibility to deliver containers directly underneath the crane will be looked into detail. The goal of the whole project can be concluded in the question: "Get Automated or not?"

February 2012 – May 2012

IBI Group (UK) Limited
Moscow Transportation Master Plan.

Development of the data collection methodology for the development of a Commercial Vehicle Model for the city of Moscow (2012).

June 2010 – 2011

INSTAL
Scientific Director of Transport Masterplan Study for CERN

Study at CERN. The scope of the project was to record and analyze existing transportation conditions and needs of the CERN community and to highlight innovative solutions for establishing a sustainable transportation system for the CERN. Within this context, the objectives of the proposed project are: Analysis of travel patterns of the CERN community

(staff, users, visitors); Proposals for possible improvements – additions to the CERN transportation system, Examination of the impacts on demand from possible improvements; Proposals and plans for immediate as well as medium and longer range improvements on community mobility, and Proposals for innovative and environmentally friendly (green) technologies, to improve on the living and working quality of the CERN community.

June 2007 – June 2009 **IBI-Group**

Study for the Athens Public Transport Authority to develop the masterplan of Attica region for the years 2011, 2016, and 2023. The project also involved the development of a decision support and simulation tool to predict future demand and supply under alternative scenarios for public transport alternatives (bus, metro, tram, and trolley) for future time horizons.

June 2003 – September 2003 **IBI Group**

Development study for the Tripoli airport, Civil Aviation flights. Drawing of a board of parameters and convergence criteria for alternative solutions concerning the airport development to serve the civil aviation flights. Economic, technical, wind, business, functional, environmental, traffic, social, land use etc. criteria are taken under consideration. These criteria are evaluated and the advantages and disadvantages are developed, possibilities and risks of every solution (SWOT analysis). Based on the above mentioned analysis, the optimum development solution for the airport was suggested.

June 2000 – June 2001 **Rand Europe**

Worked on the design of a tour-based travel SP survey tool and the analysis of the pilot survey data results, for the development of a master plan for the Tel-Aviv area. The survey data will be used for the development of an tour-based travel modeling system addressing mode, departure time, and number of stops choice behavior.

May 1999 – February 2000 **Hague Consulting Group**

Designed and developed combined revealed and stated preference computerized surveys using MINT to collect stated preference data on travelers decisions to use new public transportation means in the Tel-Aviv metropolitan area, in Israel. Developed, estimated, and applied combined stated and revealed preference mode/access choice models for car, bus and mass transit alternatives (enhanced bus, light rail train, metro and their combinations).

March 1999 – June 1999 **Athens International Airport "Eleftherios Venizelos"**

Transportation Planning Department

(a) Rental Car Companies forecast study. Research on the car rental companies' needs for parking space and other auxiliary facilities for their installation in the new international airport at Spata.

(b) Employees commuting and parking needs forecast for new airport site. Analysis of the impact of the relocation of the airport from the Hellinikon to the Spata area, on the transportation needs and choice of mode of the airport employees.

December 1998 – March 1999 **Trans European Research Unit of Thessaloniki (T.R.U.Th)**

Traffic Study for the City of Thessaloniki

Stated preferences data analysis and household research data analysis, for the study of the mode choice selection in the city of Thessaloniki. Development and evaluation of mode transport choice models (logit models) through the use of the above mentioned data (choice among the subway, bus, car).

1997-1999 **Attiko Metro SA**

Dr. Polydoropoulou has developed a three steps out of the four-step transport model system (trip generation, distribution, and modal split) for the Athens Metro Inc. for the masterplan for the city of Athens(1997-1999).

June 1998 – June 1999 **Hellenic Chamber of Transport Association**

Responsible for the marketing research for the "Feasibility-Sustainability Study of the Aegean International Trade Center - on the island of Chios."

February 1997 – June 1997 **Sloan School of Management, Massachusetts Institute of Technology**

Project manager for the creation of an Information Acceleration Simulator for Automated Highway Systems.

COMPUTER PROGRAMS & FOREIGN LANGUAGES

Computer Languages C, Fortran, Basic

Statistical Packages GAUSS, ALOGIT, SPSS, SYSTAT, SST, TSP, ACCESS, MGRAVITY, BIOGEME, ICVL

Network Simulation Packages SATURN, VISUM, VISSIM

Foreign Languages English, Spanish, French

RESEARCH COLLABORATIONS

(a) Collaborations with the following research institutions:

Europe:

University of Naples, Technical University of Delft, Universidad Politecnica de Madrid, Cardiff University, Rand Europe (NL), Ecorys (NL), Cambridge Systematics, UCL, EPFL.

U.S.A.:

MIT, John A. Volpe National Transportation Systems Center, Cambridge, MA; Northwestern University, North Carolina A&T State University; University of Santa Barbara, California.

China:

Shanghai Maritime University

(b) Research Networks Member:

URIT – a network of European and American universities

TRANSPORTNET – a network of European universities whose activities refer to research and training in transport
www.transportnet.org

IKY – "Board of Directors of the National Foundation for Scholarships"

TRB - Transportation Research Board (Travel Behaviour; User Information Systems AND20)

Regional Research and Innovation Councils of North and South Aegean

(c) Member of Journal/Conferences Committee

IATBR – International Association of Travel Behavior Research

WCTRC – World Conference Transport Research Council

IEEE Journal on ITS

Aegean Working Papers – Member of the Editorial Board

(d) ERMIS Research Group

Study on the impact of technology and electronic economy on Transport systems and implications' analysis on the activities of people, through simulations. University of the Aegean, Department of Shipping, Trade and Transport. Other members of the group: N. Litinas, I.Lagoudis and A. Tsirimpa.

EDITORIAL BOARD

	2024	Editorial board of IJDSRM V 11
2022		Special Issue: Sustainable Transportation Networks and Planning, Sustainability Co-Editor
		Special Issue "Sustainability of Automated and Connected Transport - The User Perspective" Co-Editor with Yoram Shiftan, Nikolas Thomopoulos and Valentina Rappazzo
	2011–2014	Special Issue on Advanced Traveler Information Systems. Journal of Intelligent Transportation Systems Co-Editor with C. Antoniou and A. Khattak
	2010–Currently	Journal of Transport and Shipping http://www.stt.aegean.gr/en/research/aegean-working-papers.html Co-Editor with I. Karkazis

**REVIEWER
AT INTERNATIONAL
JOURNALS AND
CONFERENCES****(a) Journals**

Sustainability (since 2019)
Maritime Policy & Management (since 2019)
Technological Forecasting & Social Change (since 2019)
Data in Brief (since 2019)
Travel Behavior and Society (since 2019)
Research in Transportation Business & Management (since 2019)
IET Intelligent Transport Systems (since 2000)
Transportation Research A (since 2000)
Transportation Research C (since 2000)
Transportation Research D (since 2000)
Transportation Research Record (since 2000)
Transportation Letters (2016 -2018)
Journal of Transport and Shipping (2010-2014)
Aegean Working Papers
Journal of Shipping, Trade and Transport
Annals of Tourism Research
IEEE Journal on ITS (2012)
BEPAM (Built Environment Project and Asset Management) (2012)
Journal of Intelligent Transportation Systems, Special Issue: Advanced Traveler Information Systems (Co-editor in 2011)

(b) Selected Conferences

Transportation Research Board, since 1999 – (currently)

WCTR - World Conference Transport Research (2001-Seoul, 2004- Istanbul, 2008-California, 2012-Rio, 2023-Montreal)

International Association of Travel Behavior Modeling since 2009 - (currently)

ICTR (International Congress on Transport Research) in Greece since 2013 - (currently)

PARTICIPATION AT UNIONS –PROFESSIONAL ORGANIZATIONS

- (1) Member of the Greek Traffic Engineers Union
- (2) Member of the Greek Civil Engineers Union
- (3) Sigma Xi, The Scientific Research Society
- (4) "User Information Systems Committee" of Transportation Research Board
- (5) Network on European Communication and Transport Activities Research (NECTAR) Committee

FACULTY SELECTION COMMITTEE FOR INTERNATIONAL UNIVERSITIES

- Technion University
- Naples University
- KTH
- EPFL

PhD DISSERTATION COMMITTEE

- National Technical University of Athens (NTUA) Greece
- KTH Sweden
- UCL England
- University of Newcastle England
- UPM Spain

RESEARCH INTERESTS

The research interests include the following:

- (1) Transport Systems Analysis
- (2) Data, Models and Decision Making
- (3) Demand Modeling and Forecasting
- (4) Applied Econometrics
- (5) Market, Questionnaires and Sampling Techniques' Analysis
- (7). Mobility as a Service
- (8) Autonomous vehicles
- (9) Long Distance Traveling

- (10) Road Safety
- (11) Last mile deliveries
- (12) Models for container terminals

ANNEX

1. Dissertations–Theses

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2. Polydoropoulou, A. (1993). *Modeling the Influence of Traffic Information on Drivers Route Choice Behavior*. M.S. Thesis in Transportation, Massachusetts Institute of Technology.
3. Πολυδωροπούλου, Α. (1990). Επίδραση Συστημάτων Καθοδήγησης στην Επιλογή Διαδρομής των Οδηγών. Διπλωματική Εργασία, Τμήμα Πολιτικών Μηχανικών, Εθνικό Μετσόβιο Πολυτεχνείο.

2. Monographs (in Greek)

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2. Πολυδωροπούλου, Α. (2005). *Ανάπτυξη Συμβουλευτικού Συστήματος Εκπαίδευσης στη Ναυτιλία*. Πανεπιστήμιο Αιγαίου, Τμήμα Ναυτιλίας και Επιχειρηματικών Υπηρεσιών, Χίος.
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4. Πολυδωροπούλου (2009). *Νέες Προσεγγίσεις στην Ανάλυση Επιβατικών Μεταφορών: Η επίδραση της συνολικής ικανοποίησης (ευτυχίας - happiness)*. Πανεπιστήμιο Αιγαίου, Τμήμα Ναυτιλίας και Επιχειρηματικών Υπηρεσιών, Χίος.
5. Πολυδωροπούλου, Α. (2010). *Μεθοδολογία Ανάπτυξης Πράσινων Μεταφορών στο Αιγαίο*. Πανεπιστήμιο Αιγαίου, Τμήμα Ναυτιλίας και Επιχειρηματικών Υπηρεσιών, Χίος.
6. Πολυδωροπούλου, Α. (2010). *Η Επίδραση των Οδικών Ατυχημάτων στις Μικρές Κοινωνίες: Κουλτούρα, Οδική Συμπεριφορά και Ατυχήματα*. Πανεπιστήμιο Αιγαίου, Τμήμα Ναυτιλίας και Επιχειρηματικών Υπηρεσιών, Χίος.

3. Chapters in Books with Chapter Evaluation

1. Papaioannou G., Polydoropoulou A. (2025), Transport Modelling for the Aegean Archipelagos: Towards Efficient, Resilient and Passenger-Oriented Maritime Transport for Small Islands. Proceedings of the 33th Annual Conference of the International Association of Maritime Economists (IAME), Bergen 25-27/6/2025.
2. Mavrogenidou, P., Polydoropoulou, A., & Tsirimpa, A. (2025). The Influence of Micro-Mobility Services on Peoples' Willingness to Join a MaaS Scheme. In C. McNally, P. Carroll, B. Martinez-Pastor, B. Ghosh, M. Efthymiou, & N. Valantasis-Kanellos (Eds.), *Transport Transitions: Advancing Sustainable and Inclusive Mobility* (pp. 229–235). Springer Nature Switzerland. https://doi.org/10.1007/978-3-031-85578-8_30
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4. Mavrogenidou, P., Polydoropoulou, A., Tsirimpa, A., & Pagoni, I. (2025). Greening the Commute: E-Scooters Pilot for Sustainable Mobility of Tomorrow's Workplace. In E. G. Nathanail, N. Gavanas, & E. Adamos (Eds.), *Climate Crisis and Resilient Transportation Systems* (pp. 534–548). Springer Nature Switzerland. https://doi.org/10.1007/978-3-031-82714-3_39
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7. Karakikes, I., Polydoropoulou, A., Tsimpa, A., and Pagoni, I. (2023). EN.I.R.I.S.S.T Road Freight Transport Service: An Impact Oriented Policy Advice Tool. In: Nathanail, E.G., Gavanas, N., Adamos, G. (eds) Smart Energy for Smart Transport. CSUM 2022. Lecture Notes in Intelligent Transportation and Infrastructure. Springer, Cham. https://doi.org/10.1007/978-3-031-23721-8_105
 8. Mavrogenidou, P., Polydoropoulou, A., and Tsimpa, A. (2023). Micro-mobility and Micro-mobility's Status Quo in Greece. In: Nathanail, E.G., Gavanas, N., Adamos, G. (eds) Smart Energy for Smart Transport. CSUM 2022. Lecture Notes in Intelligent Transportation and Infrastructure. Springer, Cham. https://doi.org/10.1007/978-3-031-23721-8_94
 9. Polydoropoulou, A., Politis, I., Georgiadis, G., Pagoni, I., Sdoukopoulos, A., Kouniadi, D., Papadopoulos, E., Krousouloudi, N., Fyrogenis, I., Kopsachellis, A. (2023). "Moving Towards Safe and Sustainable Mobility: The Development of a Road AccidEnts InformAtion CenteR for Greece (DEAR)". In: Nathanail, E.G., Gavanas, N., Adamos, G. (eds) Smart Energy for Smart Transport. CSUM 2022. Lecture Notes in Intelligent Transportation and Infrastructure. Springer, Cham. https://doi.org/10.1007/978-3-031-23721-8_123
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4. Publications in Refereed Journals

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11. Waller, S. T., Polydoropoulou, A., Tassoulas, L., Ziliaskopoulos, A., Jian, S., Wagenknecht, S., Hirte, G., Ukkusuri, S., Ramadurai, G., & Bednarz, T. (2025). Mobility as a Resource (MaaR) for Resilient Human-Centric Automation – A Vision Paper. *Data Science for Transportation*, 7(1), 1. <https://doi.org/10.1007/s42421-024-00115-z>
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5. Submitted for Publications

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2. Mohammed Anas, Alhajyaseen Wael, Salam Salwa, Tahmasseby Shahram, Polydoropoulou Amalia, Tsirimpa Athena, Tsouros Ioannis, Karakikes Ioannis. "Review of Emerging & Traditional Travel Demand Management Practices: A Cross-Contextual Analysis of Effectiveness and Policy Implications". *Case Studies on Transport Policy*.
3. Polydoropoulou Amalia, Velegrakis Adonis, Papaioannou Georgios, Karakikes Ioannis, Bouhouras Efstathios, Thanopoulou Helen, Chatzistratis Dimitrios, Monioudi Isavela, Moschopoulos Konstantinos, Chatzipavlis Antonios. "A Port Resilience Index Focused on Climate Change: Results from Greek Ports' Living-Labs". *Maritime Transport Research*.
4. Elhenawy Mohammed, Karakikes Ioannis, Mohammed Anas, Tahmasseby Shahram, Salam Salwa, Alhajyaseen Wael, Tsouros Ioannis, Tsirimpa Athena, Polydoropoulou Amalia. "Shared e-scooter usage analysis considering the effect of weather conditions and land use: Qatar case study". *Transportation Planning and Technology*.
5. Mohammed Anas, Salam Salwa, Tahmasseby Shahram, Alhajyaseen Wael, Polydoropoulou Amalia, Tsirimpa Athena, Tsouros Ioannis, Karakikes Ioannis. "Advancing the state-of-the-art in travel demand management strategies: Evaluating the impact scale". Paper submitted for publication at the *Journal of Transport Geography*.

6. Conference Presentations with Evaluation of Full Articles

1. Polydoropoulou, A., Tsirimpa, A., Moscholidou, I., Richetta, A., Lymaxis, I. and Fergadiotou, I. (2025), Who pays for the commons? A business model for Mobility as a Commons schemes. 12th International Congress on Transportation Research, Thessaloniki 16-18 October 2025.
2. Moscholidou, I., Pagoni, I. and Polydoropoulou, A. (2025), Seaplanes in Greece: sustainability challenges and policy objectives. 12th International Congress on Transportation Research, Thessaloniki 16-18 October 2025.
3. Papaioannou G, Polydoropoulou A. (2025), Towards market-oriented measures for reducing the emissions of maritime passenger transport: Assessing potential business models. 19th International Conference on Environmental Science and Technology – CEST 2025, Kos 3-6/9/2025.
4. Kotrikla A., Remoundos G., Lekakou M., Polydoropoulou A., Papaioannou G., Katsounis G., Fameli K., Assimakopoulos V., Grivas G., Mihalopoulos N., Liora N., Poupkou A., Progiou A., Zerefos C., Grigoriadis A., Tsegas G., Fragkou E.,

- Ntziachristos L. (2025), Ship electrification as a pathway to decarbonize shipping: The case of Perama-Salamina line. 19th International Conference on Environmental Science and Technology – CEST 2025, Kos 3-6/9/2025.
5. Papaioannou G., Polydoropoulou A., Thanopoulou H. (2026), Understanding the Business Models of Passenger Ferry Services: Market and Policy Insights from the Global Ferry Industry. 105th Annual Meeting of the Transportation Research Board (TRB) - Washington, D.C. 11-15/1/2026 (accepted for presentation & under review for publication with the Transportation Research Record – TRB’s academic journal).
 6. Polydoropoulou Amalia, Velegrakis Adonis, Papaioannou Georgios, Karakikes Ioannis, Bouhouras Efstathios, Thanopoulou Helen, Chatzistratis Dimitrios, Monioudi Isavela, Moschopoulos Konstantinos, Chatzipavlis Antonios. “A port resilience index focused on climate change: Results from Greek ports’ living-labs”. Paper 25-03507, 104th Annual Meeting of TRB, Washington, D.C.
 7. Polydoropoulou Amalia, Bouhouras Efstathios, Karakikes Ioannis, Papaioannou Georgios, 2024. “Enhancing climate resilience in maritime ports: A decision support system approach”. In: Gervasi, O., Murgante, B., Garau, C., Taniar, D., C. Rocha, A.M.A., Faginas Lago, M.N. (eds) Computational Science and Its Applications – ICCSA 2024 Workshops. ICCSA 2024. Lecture Notes in Computer Science, vol 14823. Springer, Cham. https://doi.org/10.1007/978-3-031-65329-2_16
 8. Polydoropoulou Amalia, Papaioannou Georgios, Bouhouras Efstathios, Karakikes Ioannis, Vaggelas Georgios, 2024. “A Decision Support System (DSS) for fostering resiliency of Greek Ports against climate hazards.” 10th Transport Research Arena TRA 2024, Dublin, Ireland, 15-18 April 2024 (accepted for publication)
 9. Chatzistratis, Dimitris & Monioudi, Isavela & Chalazas, Theodoros & Papaioannou, Giorgos & Moschopoulos, Konstantinos & Velegrakis, Adonis & Polydoropoulou, Amalia. (2024). Flood risk assessment on two Greek island ports under the impact of rising sea levels. HydroMediT 2024: 5th International Congress on Applied Ichthyology, Oceanography, and Aquatic Environment
 10. Polydoropoulou, A., Karakikes, I., and Mavrogenidou, P. (2025). Exploring E-Commerce Behavior for Sustainable Deliveries and Returns: A Stated Preference Approach Across Five European Countries. hEART 2025: 13th Symposium of the European Association for Research in Transportation, Munich, Germany, June 10-12, 2025. (Accepted for Podium Presentation)
 11. Mavrogenido, P., and Polydoropoulou, A. (2025). From Concept to Implementation: Stakeholder Views on Micro-mobility Hub Integration. Velo-city conference, Gdansk, Poland, June 10-13, 2025. (Accepted for Poster Presentation)
 12. Polydoropoulou, A., Karakikes, I., Papaioannou, G., Thanopoulou, H., Bouchouras, E., and Anastasiou, G. (2025) “A Decision Support System to Enhance Port Resilience to Climate Change”. SIGA2 Conference 2025 (accepted for presentation)
 13. Polydoropoulou, A., Velegrakis, A., Papaioannou, G., Karakikes, I., Bouchouras, E., Thanopoulou, H., Chatzistratis, D., Monioudi, I., Moschopoulos, K., and Chatzipavlis, A. (2025) A Port Resilience Index Focused on Climate Change: Results from Greek Ports’ Living-Labs. Accepted for presentation at the 104rd Annual Meeting of TRB, Washington, D.C., 2025.
 14. Papaioannou, G., and Polydoropoulou, A. (2025). “Ferry Travel as an Activity: Demand Forecasting for Cruise Ferries”. Accepted for presentation at the 104rd Annual Meeting of TRB, Washington, D.C., 2025.
 15. Karakikes Ioannis, Polydoropoulou Amalia, and Athena Tsimpa (2024). “Integrating a white-label scheme service for a shared micro consolidation center in Athens, Greece”. 7th Conference on Sustainable Mobility (CSuM2024) Limni Plastira, Greece.
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 18. Polydoropoulou A, Papaioannou G, Bouhouras E, Karakikes I. (2024). A Decision Support System (DSS) for fostering resiliency of Greek Ports against climate hazards. 10th Transport Research Arena, TRA 2024, Dublin, Ireland.

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21. Mavrogenidou, P., Polydoropoulou, A., and Tsirimp, A. (2024) "The influence of micro-mobility services on peoples' willingness to join a MaaS scheme." 10th Transport Research Arena TRA 2024, Dublin, Ireland, 15-18 April 2024.
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23. Waller, S. T., Amrutsamanvar, R., Qurashi, M., Chand, S., and Polydoropoulou, A. "Automated Travel Demand and Network Modeling to Estimate Road Traffic Carbon Emissions: A Global City Comparison." Accepted for presentation at the 103rd Annual Meeting of TRB, Washington, D.C., 2024.
24. Tsouros, I., Goulias, K., Polydoropoulou, A., and Tsirimpa, A., (2024). "Beyond Work: Understanding the Diversity and Spatial Distribution of Secondary Activities Among Remote and Office Workers". Accepted for presentation at the 103rd Annual Meeting of TRB, Washington, D.C., 2024.
25. Tsirimpa, A., Karakikes, I., Tsouros, I., Anas Ahmad Nemer Mohammad, Tahmasseby Shahram, Salam Salwa, Alhajyaseen Wael, and Polydoropoulou, A. (2024). "Riding Together: How Subscription Sharing and Nationality Influence MaaS Adoption in Qatar". Accepted for presentation at the 103rd Annual Meeting of TRB, Washington, D.C. 2024.
26. Papaioannou, G., Tsouros, I., and Polydoropoulou, A., (2024). "The role of ferries in Intercity Mobility as a Service (MaaS): Exploring users' acceptance and willingness to pay." Accepted for presentation at the 103rd Annual Meeting of TRB, Washington, D.C. 2024.
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29. Kouniadi, D., Polydoropoulou, A., and Pagoni, I., (2023). Analysing the effects of autonomous vehicles introduction via the ENIRISST Research Infrastructure. 11th INTERNATIONAL CONGRESS ON TRANSPORTATION RESEARCH, Heraklion, Crete, 20-22 September 2023.
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31. Papaioannou, G., Polydoropoulou, A., Pagoni, I., and Tsirimpa, A., (2023). "Mobility as a Service" in Rural & Island Areas: A case study for Greece. 11th INTERNATIONAL CONGRESS ON TRANSPORTATION RESEARCH, Heraklion, Crete, 20-22 September 2023.
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2. Polydoropoulou, A., Mavrogenidou, P., Karakikes, I. 2026. Out of the box: Cross-country patterns in last mile parcel deliveries. World Conference on Transport Research Society (WCTRS) 2026, Toulouse, France.
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5. Mavrogenidou, P., Polydoropoulou, A., 2025. Rethinking Urban Mobility: Designing Micro-Mobility Hubs for Smarter and Greener Cities. Transport Research Arena 2026.
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1. Amalia Polydoropoulou, Ioannis Karakikes, Georgios Papaioannou, Helen Thanopoulou, Efstathios Bouchouras. Enhancing the Resilience of Maritime Ports against Climate Change: Developing a Resilience Index through Living Labs. International Association of Maritime Economists (IAME) 2025, Bergen, Norway, 25-27 June 2025.
2. Amalia Polydoropoulou, Ioannis Karakikes, Georgios Papaioannou, Helen Thanopoulou, Efstathios Bouchouras, Giannis Anastasiou, "A Decision Support System to Enhance Port Resilience to Climate Change". WCTRS SIGA2 Conference 2025, Antwerp, Belgium, 7-9 May 2025.
3. Polydoropoulou Amalia, Bouhouras Efstathios, Karakikes Ioannis, Papaioannou Giorgios, 2023. "The contribution of research infrastructures in shaping resilient maritime ports against climate change". 8th Macedonian Environmental Conference, Thessaloniki, Greece, 6-8 October 2023.
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6. Kotrikla A., Fameli K., Polydoropoulou A., Di Ciommo F., Alonso Raposo M. (2023). Living labs in climate response, 18th International Conference on Environmental Science and Technology, CEST2023, 30 August to 2 September 2023, Athens, Greece, Book of Abstracts, available https://ik.imagekit.io/viv/tr:w-1400,cat_max/uploads/tenantcest/photos/book-of-abstracts-cest2023.pdf
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62. Πολυδωροπούλου, Α., και Ι. Λαγούδης (2005). "Η Επίδραση των Νέων Τεχνολογιών στις Δραστηριότητες και Μετακινήσεις των Γυναικών στην Ελλάδα. Σύγκριση Μεταξύ Αστικών και Απομακρυσμένων Περιοχών." Παρουσιάστηκε στο 3ο Διεθνές Συνέδριο για την Έρευνα στις Μεταφορές στην Ελλάδα. Θεσσαλονίκη, 11-12 Μαΐου, 2006.
63. Deloukas, A., A. Polydoropoulou, and A. Mousikidou (2005). "Dynamic of Public Transport Demand in Athens." Παρουσιάστηκε στο 3ο Διεθνές Συνέδριο για την Έρευνα στις Μεταφορές στην Ελλάδα. Θεσσαλονίκη, 11-12 Μαΐου, 2006.
64. Lambrou, M., A. Polydoropoulou, N. Nikitakos, and N. Litinas (2005). "Personalized, Virtual Maritime Self-Learning in the SLIM-VRT Environment." CD Conference Proceedings of the ECEL 2005: The 4th European Conference on e-Learning. Royal Netherlands Academy of Arts & Sciences, Amsterdam, NL, 10-11 November 2005.
65. Mousikidou, A., A. Polydoropoulou, A. Tsirimpa, and A. Deloukas (2005). "Public Transport Demand and Revenues in Athens: the introduction of METRO and New Tariff Instruments." Work in Progress Presented at the European Transport Conference 2005, Strasburg, France, October 2005.
66. Polydoropoulou, A., and E. Kitrinou (2004). "The Impact of ICTs and Transport On Residence Location And Teleworking: The Case Of The Aegean Islands Region." Presented at TRANSTEC, 2004, Athens. Polydoropoulou, A., and C. Papageorgiou (2005). "Demand models on Passenger Shipping: A case study for the North Sporades in Aegean Area." Work in Progress Presented at the European Transport Conference 2005, Strasburg, France, October 2005. (Άρθρο στα Ελληνικά).
67. Polydoropoulou, A., and C. Papageorgiou (2005). "Demand models on Passenger Shipping: A case study for the North Sporades in Aegean Area." Work in Progress Presented at the European Transport Conference 2005, Strasburg, France, October 2005. (Άρθρο στα Ελληνικά)

68. Tsirimpa, A., A. Polydoropoulou, and C. Antoniou (2005). "Modeling The Impact Of Advanced Traveler Information Systems On Travelers' Behavior: Puget Sound Region Case Study." Paper presented at the European Transport Conference 2005, Strasbourg, France, October 2005.
69. Κιτρίνου, Ε., Μ. Διακομιχάλης, και Α. Πολυδωροπούλου (2002). "Ο Ρόλος Των Ακτοπλοϊκών Μεταφορών Στην Ανάπτυξη Των Νησιωτικών Περιοχών Της Ελλάδας." DRAFT Άρθρο που παρουσιάστηκε στο Β' Διεθνές Συνέδριο Ναυτικής Ιστορίας Γεωπολιτική Της Θάλασσας: Ιστορική Εξέλιξη, Σύγχρονη Διάσταση, Μελλοντικές Προοπτικές. Πανεπιστήμιο Αιγαίου, Χίος, Σεπτέμβριος 2002.
70. Tsironis, C., and A. Polydoropoulou (2000). "Use of Multimedia Technologies for Measuring the Demand of New Transport Services: An Information Accelerator for Short Sea Shipping." DRAFT Paper (in Greek) presented at 13th National Conference of Hellenic Operations Research Society, "Transportation and New Technologies." University of Piraeus, Greece.
71. Kokkinos, I., A. Polydoropoulou, A. Deloukas, and A. Anastasaki (1999). "An Integrated Land Use and Transportation Model System: The Case of Athens Metro Development Study." Paper presented at the 4th International Symposium on Quantitative Methods (SQM_4), Chios, August 98; Revised and Presented at Transportation Research Board, Washington, 1999.
72. Polydoropoulou A., and A. Deloukas (1998). "Modal Policies In Attika Region: An Impact Assessment." Paper Presented at Public Transportation Research Conference (PTRC), September, 1998.
73. Polydoropoulou, A., D.A. Gopinath, and M. Ben-Akiva (1998). "Willingness to Pay Models for Really New Products and Services." Revised and Presented at the "1998 HEC Invitational Choice Symposium", Jouy-en-Josas, France, July 1998 and the "Marketing Science Conference", INSEAD, Fonteneblau, France, July 1998.
74. Polydoropoulou, A., and N. Litinas (1998). "User Adoption of Telecommunication/Transportation Services: The Proodos Case Study." Paper presented at Word Conference on Transportation Research (WCTR), Antwerp, Belgium, August 1998.
75. Ben-Akiva, M., J. Benjamin, S. Kurauchi, T. Morikawa, and A. Polydoropoulou (1997). "User Adoption of Advanced Public Transportation Systems (APTS)." Paper presented at Transportation Research Board, in Washington, January 1998.
76. Polydoropoulou, A., and M. Ben-Akiva (1997). "The Effect of Advanced Traveler Information Systems (ATIS) on Travelers Behavior." Paper Presented at Transportation Research Board, in Washington, January 1998. (Citations: 81)
77. Polydoropoulou, A., Y. Murashige, and M. Ben-Akiva (1997). "Driver Response to Advanced Traveler Information Systems for Inter-city Expressways in Japan." Paper presented at the Transportation Research Board, Washington, D.C.

9. Studies

1. Polydoropoulou, A. (2010). *Study on CERN's Transportation Requirements and related Infrastructure*.
2. Πολυδωροπούλου, Α. (2005). *Έρευνα Αγοράς για τα Τουριστικά Γραφεία ως προς τη Χρήση On-Line Συστημάτων Κρατήσεων*. Πανεπιστήμιο Αιγαίου, Ιούλιος 2005.
3. Πολυδωροπούλου, Α., Μ. Καπρος, και Ε. Πολλάτου (2003). *Μοντέλο Επιλογής Μέσου Μεταφοράς για το Παρατηρητήριο Μεταφορών*. Μελέτη που εκπονήθηκε για το Υπουργείο Μεταφορών.
4. Polydoropoulou, A. (1999). *Rental Cars Demand Study for the Athens International Airport*. Μελέτη που εκπονήθηκε για το Διεθνή Αερολιμένα Αθηνών, Ελευθέριος Βενιζέλος.
5. Polydoropoulou, A., Moshe Ben – Akiva, Asad Khattak, Geoffrey Lauprete (1995). *Communters' Normal and Shift Decision in Unexpected Congestion: En Route Responses to Advance Traveler Information Systems Volume 2*. California PATH Research.
6. Ben-Akiva, M., A. Polydoropoulou, H. Koutsopoulos, and P. Whitworth (1993). *Public Acceptance and User Response to ATIS Products and Services: Modeling Framework and Data Requirements*. Report Prepared for the Economic Analysis Division, John A. Volpe National Transportation Systems Center, and the Office of Policy Development, Federal Highways Administration.
7. Koutsopoulos, H., A. Polydoropoulou, and M. Ben-Akiva (1993). *The Use of Travel Simulators to Investigate the Response to Traffic Information*. Report Prepared for the Economic Analysis Division, John A. Volpe National Transportation Systems Center, and the Office of Policy Development, Federal Highways Administration.

8. Invited Speaker

- Polydoropoulou, A. (2023). Sustainable transport. "Study Abroad" Course. SU23 Sustainability and Infrastructure. May 20-30, 2023
- Polydoropoulou, A. (2023). Intelligent Research Infrastructure in Shipping, Supply Chain, and Transport (EN.I.R.I.I.S.S.T+). International Scientific Conference "Climate Change and New Technologies".
- Polydoropoulou, A. (2023). Passenger Land Transport. Shagnhai Maritime University/SMU academic week seminar
- Polydoropoulou, A. (2023). Intelligent Research Infrastructure in Shipping, Supply Chain and Transport + (ENIRISST PLUS). Shagnhai Maritime University/SMU academic week seminar
- Polydoropoulou, A. (2023). 20 Years TransportNET. Shagnhai Maritime University/SMU academic week seminar
- Polydoropoulou, A. (2023). Effects of Digitalization and Automation on Decision Making in Logistics and Passenger Shipping. Shagnhai Maritime University/SMU academic week seminar
- Polydoropoulou, A. (2023) Harmony H2020 "Next Generation of Transport Planning Tools"
- Polydoropoulou, A. (2022). Smart cities with innovative transport systems for trade development. Future of Retail 2022. 27th May, 2022.
- Polydoropoulou, A. (2022). Adoption of new mobility services: Mobility as a Service. The 2ND ISTRC Annual Conference.
- Polydoropoulou, A. (2022). The role of disrupting technologies in urban logistics of the future. Urban Logistics Summer School. University of Antwerp. August 23th, 2023
- Polydoropoulou, A. (2021) "Factors Affecting the Adoption of Shared Autonomous Vehicles: Insights from the Wise-Act Research Activities" Webinar Friday 5th November, 2021.
- Polydoropoulou A. (2021). ACT Travel Behaviour. Rethinking the Future of Mobility: Autonomous and Connected?" – WISE-ACT special session, MARUF21
- Polydoropoulou, A. (2020). Mobility-as-a-Service. CIVINET presentation.
- Polydoropoulou, A. (2019). Business Models for MaaS. Plenary session for MaaS4EU, IoMOBILITY 2019, April 4th, Milan, Italy.
- Polydoropoulou A. (2019). "Disruptive Technologies and the Future of Transportation", Ben-Gurion University of the Negev, Erasmus+ Seminar. Wednesday, July 17th, 2019.
- Polydoropoulou A. (2019). "Adoption of Autonomous Vehicles: Challenges and Opportunities", American University of Beirut, Erasmus+ Seminar, Lebanon, Tuesday, June 25th, 2019.
- Polydoropoulou A. (2019). "Modelling Tomorrow's Mobility", Open Public Seminar, American University of Beirut, Open Public Presentation, Lebanon, Thursday June 27th, 2019.
- Polydoropoulou A. (2016). "Data Protection and Security" and "Public Transportation". Cooperative Intelligent Transport Systems Workshop, Belgium, 2016.
- Polydoropoulou A. (2015). "Advances in Data Collection and Modeling Techniques" Keynote Speaker at the 5th International Conference "Towards a Humane City" Urban Transport 2030 - Mastering Change. Novisad, November 2015.
- Polydoropoulou A. (2015). "Influence of Social Networks on Modeling Travel Behavior: Opportunities and Challenges." Keynote Speaker a theCOST Action TU1305 Social Networks and Travel Behavior. Budapest Meeting. Budapest University of Technology and Economics (BME). June 2nd, 2015.
- Polydoropoulou A. (2015). "New Challenges in Transportation Modelling", University of Texas at Austin, May 2015.
- Polydoropoulou A. (2014). Keynote Speaker "Transportation Research in the Future". Swedish National Transport Conference, Linköping, October 2014.
- Polydoropoulou A. (2014). "Traffic Forecasts" COST ACTION TU1001, Public Private Partnership in Transport: Trends and Theory (P3T3). Training Course, Rhodes, July 2014

- Polydoropoulou A. (2012). "Bridging the Gap: The effect of ICTs on Women's Empowerment." Transportation Research Arena, Athens, April 2012.
- Polydoropoulou A. (2011). "GRETIA-Green Transportation in Island Areas." SENSEable Lab, MIT, Boston, USA, November 2011.
- Polydoropoulou, A., (2011). "GreTIA – Green Transport in Island Areas." GeoTrans Laboratory, University Of California at Santa Barbara (UCSB) Santa Barbara, California, USA, November 2011.
- 16/ Polydoropoulou A. (2011). "Incorporation Happiness in Mode Choice Models." Emerging issues and methods in policy-oriented travel demand analysis, Transportation Research Institute, the Technion, Haifa, June 2011.
- Polydoropoulou A. (2011). "User Response to Information. The European Perspective." Invited Panel Member in the Session 'Impact of Information on Traveller Decision and Driver Behaviour.' Organised by the User Information Systems AND20 Committee, Transportation Research Board, January 2011.
- Polydoropoulou A. (2011). "Impacts of ITS on changes of activity patterns." Invited speaker at the Intelligent Transportation System Laboratory, MIT Centre for Transportation Studies, January 2011.
- Polydoropoulou A. (2010). "Human Behavior and Driving Consciousness." Invited as a key speaker to Seminar from Department of Road Transport, Ministry of Education and Culture and Road Safety Institute "G. Mavrikios", Nicosia, Cyprus, 17 December 2010.
- Polydoropoulou, A. (2009). "Modeling the Impact of Satisfaction-Happiness on Choice Behavior." 5th Workshop on Discrete Choice Models, EPFL, August 2009, Lausanne, Switzerland.
- Polydoropoulou A. (2009). "Modeling the Impact of Satisfaction- Happiness on Choice Behavior." Ecole Polytechnique Federale de Lausanne, Workshop on Discrete Choice Models, 27-29 August 2009.
- Polydoropoulou A. (July 2002, July 2003). "Lecture on "Modeling User Response to Innovative Transportation and Information Technologies." addressed at professionals from transportation industry, MIT Summer School 'Modelling and Simulation for Intelligent Transportation Systems'.

9. Other

Member of the Board of Directors of the National Foundation for Scholarships (IKY), 2019-today.

Member of the Greek Delegation Visiting China. Visit with Greek Minister of Education in Six Chinese Universities to explore potential educational collaborations among the two countries, December 2014.