

In memoriam of Patsy Healey (1940-2024)

I was deeply shocked when I came to know that our dearest friend Patsy Healey had passed away. Her death on March 7, 2024 marks the loss of one of the most prolific and influential thinkers in Spatial Planning worldwide. Patsy was also a founding member and former President of AESOP.

Patsy's contributions to the advancement of Planning Theory, based on a sociological-institutionalist approach, are unique and irreplaceable, and yet they were always accompanied by a genuine concern for the development of innovative planning policies and practices intended to shape better places and communities. Patsy's legacy will be part of the future history of Planning as a truly autonomous scientific and professional domain. In both undergraduate and postgraduate Planning programmes, her seminal books and (numerous) papers will remain compulsory student readings for many decades to come.

Patsy was a member of CITTA's External Advisory Board from its inception until her retirement. Throughout these early years, she closely followed the development of the Centre's research activities and actively participated in our first two annual conferences (2008 and 2009), as both keynote speaker and session moderator. Some of her innovative ideas and proposals were published in the respective conference proceedings. It was an absolute privilege to benefit from Patsy's brilliant mind, sensitive and timely counsel, sincere friendship, and unconditional support.

At CITTA, Patsy will always be with us.

Paulo Pinho



Patsy Healey speaking at the final session of CITTA's 1st annual conference, 2008.
From left to right: Ken Button, Patsy Healey, Paulo Pinho, Jean-Paul Carrière, and Klaus Kunzmann.
All were members of CITTA's 1st External Advisory Board excepting Paulo Pinho, the then Director of CITTA
(image courtesy of Frederico Moura e Sá).

Brouwer, Y, Barbosa-Póvoa, A, Antunes, AP, Ramos, T (2023) Comparison of different waste bin monitoring approaches: An exploratory study, *Waste Management and Research*. DOI: [10.1177/0734242X231160691](https://doi.org/10.1177/0734242X231160691)

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Forello, AC, Cunha-Lopes, I, Almeida, SM, Alves, CA, Tchepel, O, Crova, F, Vecchi, R (2023) Insights on the combination of off-line and on-line measurement approaches for source apportionment studies. *Science of the Total Environment*, 900. DOI: [10.1016/j.scitotenv.2023.165860](https://doi.org/10.1016/j.scitotenv.2023.165860)

Frade, I, Ribeiro, A, Dias, D, Tchepel, O (2022) Bike sharing systems implementation impact on emissions, for cyclist preferred routes in urban areas. *International Journal of Sustainable Transportation*, 16 (10), pp. 901 - 909. DOI: [10.1080/15568318.2021.1949076](https://doi.org/10.1080/15568318.2021.1949076)

Freiria, S, Sousa, N, Calvo-Poyo, F (2022) Spatial analysis of the impact of transport accessibility on regional performance: A study for Europe. *Journal of Transport Geography*, 102. DOI: [10.1016/j.jtrangeo.2022.103371](https://doi.org/10.1016/j.jtrangeo.2022.103371)

Hasselwander, M, Bigotte, JF (2023) Mobility as a Service (MaaS) in the Global South: research findings, gaps, and directions. *European Transport Research Review*, 15 (1). DOI: [10.1186/s12544-023-00604-2](https://doi.org/10.1186/s12544-023-00604-2)

Ibraeva, A, Correia, G, Silva, C, Antunes, AP (2023) Impacts of transit-oriented development on car use over a 10-year period in Porto, Portugal: From macro- to micro-analysis. *International Journal of Sustainable Transportation*, 17 (11), pp. 1195 - 1206. <https://doi.org/10.1080/15568318.2022.2160284>

Dear Readers,

In recent months, CITTA has been engaged in several activities beyond our ongoing research tasks. At the end of 2023, we faced the challenge of securing financial support from FCT for the current year due to a postponed deadline for the center's evaluation. Fortunately, FCT allowed us to maintain a similar budget, equating to one quarter of the total financial support from the previous pluriannual period.

During the first trimester, our team submitted the proposal and strategic plan for the upcoming period, 2025-2029. This strategic plan, which we have named "Fostering City Transitions," was thoroughly discussed and presented to our External Advisory Board, who formally approved it after extensive deliberation.

In an era marked by AI and significant societal and environmental transformations, reflecting on our paradigms and envisioning our desired future is crucial. As researchers, our commitment to managing this new reality drives our actions. We are addressing a range of issues, from environmental challenges to social inclusion, all aimed at fostering city transitions aligned with our scientific vision.

Meanwhile, our CITTA4Talks workshops have been successfully conducted. From February to June, we explored and discussed four themes:

- Together to Beat the Heat
- Does the Shape of the City Matter?
- Rethinking Climate Action
- Streets for Children

In this context, the CITTA annual conference, which will take place in the last week of October, will also focus on this overarching theme. Four sessions are planned, each dedicated to Fostering City Transitions towards:

- Sustainable and Community-Driven Development
- Transformative Governance for Socio-Spatial Justice
- Sustainable Transport
- Social Inclusion and Spatial Integration

I'd like to conclude by expressing our gratitude to Paulo Pinho, the former CITTA Director, for his heartfelt words *in memoriam* of Patsy Healey.

António Fidalgo do Couto

RECENT PUBLICATIONS

Morais, CS, Jorge, D, Barbosa-Póvoa, AP, Antunes, AP, Ramos, T (2023) A solution methodology for a Smart Waste Collection Routing Problem with workload concerns: computational and managerial insights from a real case study. *International Journal of Systems Science: Operations and Logistics*, 10 (1). DOI: [10.1080/23302674.2022.2086717](https://doi.org/10.1080/23302674.2022.2086717)

Patricio, AS, Santos, G, Antunes, AP (2023) Assessing the introduction of regional driverless demand-responsive transit services through agent-based modeling and simulation. *Transportation*. DOI: [10.1007/s11116-023-10450-9](https://doi.org/10.1007/s11116-023-10450-9)

Pina, N, Tchepel, O (2023) A bottom-up modeling approach to quantify cold start emissions from urban road traffic. *International Journal of Sustainable Transportation*, 17 (8), pp. 942 - 955. DOI: [10.1080/15568318.2022.2130841](https://doi.org/10.1080/15568318.2022.2130841)

Pio, C, Rienda, I, Nunes, T, Gonçalves, C, Tchepel, O, Pina, N, Rodrigues, J, Lucarelli, F, Alves, C (2022) Impact of biomass burning and non-exhaust vehicle emissions on PM10 levels in a mid-size non-industrial western Iberian city. *Atmospheric Environment*, 289. DOI: [10.1016/j.atmosenv.2022.119293](https://doi.org/10.1016/j.atmosenv.2022.119293)

Pouget, L, Ribeiro, NA, Odoni, AR, Antunes, AP (2023) How do airlines react to slot displacements? Evidence from a major airport. *Journal of Air Transport Management*, 106. DOI: [10.1016/j.jairtraman.2022.102300](https://doi.org/10.1016/j.jairtraman.2022.102300)

Sanajou, K., Tchepel, O (2024) Modelling of Aircraft Non-CO2 Emissions Using Freely Available Activity Data from Flight Tracking. *Sustainability* 2024, 16(6), 2558; <https://doi.org/10.3390/su16062558>

Santos, G, Birolini, S, Correia G (2023) A space-time-energy flow-based integer programming model to design and operate a regional shared automated electric vehicle (SAEV) system and corresponding charging network, *Transportation Research Part C: Emerging Technologies*, 147,103997, <https://doi.org/10.1016/j.trc.2022.103997>

RESEARCH GROUP 3

With a commitment to reinforce the importance of interdisciplinary research, Research Group 3 recently changed its designation to “Transport Planning and Environment” (TPE) with a new motto “Fostering City Transitions Towards More Sustainable Transport” considering the general strategy delineated by CITTA for the next years.

Following long-established experience in the group, our current research is primarily focused on transport systems and their complex interactions with the environment covering strategic and operational planning, optimization and development of innovative solutions to promote sustainable transport and to reduce environmental degradation, in particular, transport related air pollution. These research topics are covered in our publications showing a stable growth with 14 articles published in ISI journals since April 2022, after the last Newsletter focused on the activities of RG3.

There are several ongoing research projects with RG3 participation. “3Cs - Cycling Campus & City” is a European project started in 2023 and funded under Erasmus+. The project intends to highlight the value of sport and environment friendly mobility by underlining the need of using active transportation to reduce carbon emissions. RG3 members also participate in “WSmart Route+” project focused on waste collection using a real time route planning system and “STREETS4ALL” project that aims to evaluate how to allocate road space dynamically over time according to multi-modal and multi-functional street uses.

Contributing to society through knowledge transfer activities remains one of the priorities of RG3. One of the latest examples is the participation in elaboration of the Regional Spatial Planning Plan PROT-Centro, coordinating the studies on the Transport and Mobility System thus helping to shape the future of accessibility, sustainable mobility and territorial cohesion at regional and national scale, reinforcing the importance of the Central Region of Portugal.

The research work developed by PhD student is an important contribution for our activities. We congratulate Micael Sousa (PhD Thesis: “Serious Planning Games”) and Noela Pina (PhD Thesis: “Analysis of Traffic Related Atmospheric Aerosol Particles in an Urban Environment”) for the successful PhD Thesis defence!

Looking forward and highlighting the importance of interdisciplinary research, we define several objectives for ongoing and upcoming activities:

- Developing advanced models, planning tools, and decision-support methods, for operationalizing planning concepts, with a particular focus on the integration between spatial planning and transport (transit-oriented demand, TOD; 15-minute city; land use - transport integration, LUTI; polycentric urban regions, etc.)
- Exploring the role of emerging solutions - in particular micromobility, shared mobility, automated vehicles, and mobility as a service (MaaS) - in the urban mobility of the future, and proposing new ways to accelerate the transition to sustainable urban mobility, based on innovative transport solutions (flexible, heterogeneous and integrated).
- Investigating the role of airports in spatial planning and regional development, analysing airport capacity management with a focus on slot allocation problems, and assessing environmental impacts of aviation under climate change.
- Developing new methodologies and knowledge in the field of transport-environment interaction focusing on urban environment with particular emphasis on transport emission modelling, pollution dispersion and population exposure.

Oxana Tchepel