



PhD in URBAN PLANNING, DESIGN, AND POLICY - 38th cycle

PARTENARIATO PNRR Research Field: MULTIMODAL/MULTISERVICE HUBS FOR SUPPORTING AN INCLUSIVE AND SMART URBAN MOBILITY

Monthly net income of PhDscholarship (max 36 months)

€ 1195.5

In case of a change of the welfare rates during the three-year period, the amount could be modified.

Context of the research activity

Motivation and objectives of the research in this field

The research is part of the activities of the Sustainable Mobility Center founded by the PNRR (Mission 4 Component 2; Investment 1.4 NextGenerationEU), inside the spoke 9 "Urban Mobility".

The research focuses on Multimodal/Multiservice hubs enabling seamless transfers by different modes of transport (car - private and shared-, transit vehicles, cycling, etc.) and offering services for travellers as well as for the community. The research aims at generating insights into the effective strategies to localize and develop a multimodal/multiservice hub for supporting the design of an urban multimodal mobility corridor, connected and integrated. This urban mobility corridor, integrating human-driven or autonomous carriers, and safety measures, provides advanced and customized mobility services to different profiles of travellers, to generate positive environmental and social impacts. By facilitating citizens' use of more sustainable mobility modes and increasing the accessibility to new transport services, the multimodal/multiservice hub and its related urban multimodal mobility corridor will provide more safe, healthier and effective transport opportunities to access services and activities.

For achieving these objectives, the project will be addressed to: 1) identify the main mobility needs and behaviours through open and digital data and implementation of an online engagement platform for collecting information by the different profiles of city users;



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| | <p>2) identify and classify the transport nodes based on their spatial&transport profiles (i.e. Spatial Multiple Criteria Analysis) to define their roles and the related services and equipment in the multimodal mobility corridor;</p> <p>3) define design criteria and standard layouts for a scalable Multiservice hub to transfer the proposed approach and solutions to other similar contexts.</p> |
| Methods and techniques that will be developed and used to carry out the research | <p>In order to deal with the research aims, methods and techniques refer to: the collection, processing, filtering and analysis of location-based data; detailed land use analysis through digital and open data; traffic data analysis and mapping; transport modelling. A data-driven, evidence-based approach will be tested in applied research on cities, mobility practices and transport modes. Particular attention will be paid to data-driven technologies for reading and analyzing cities as a breakthrough that provides an unprecedented level of detail of mobility practices and transport issues for better prescribing new mobility solutions based on sustainability and inclusion.</p> |
| Educational objectives | <p>The program aims at providing analytical and interpretative tools, as well as research/planning/design methodologies, to produce further advancement in transport and urban planning, infrastructure design, urban studies, spatial and land use planning, urban policies.</p> |
| Job opportunities | <p>According to its international orientation, the PhD programme in Urban Planning, Design and Policy trains highly qualified researchers and professionals in spatial planning, design and management of urban projects and policy, urban studies and urban governance. Doctors with such a profile could be employed by Italian and international academic institutions, public bodies and research centres, and public and private development agencies.</p> |
| Composition of the research group | <p>12 Full Professors 13 Associated Professors 0 Assistant Professors 45 PhD Students</p> |
| Name of the research directors | Prof. Paola Pucci |



Contacts

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Further information is available at: Handbook a.y. 2022/2023 of the PhD Program in Urban Planning, Design and Policy (UPDP): <https://www.dastu.polimi.it/dottorato-urbanplanning/>

Additional support - Financial aid per PhD student per year (gross amount)

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| Housing - Foreign Students | -- |
| Housing - Out-of-town residents (more than 80Km out of Milano) | -- |

Scholarship Increase for a period abroad

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| Amount monthly | 597.76 € |
| By number of months | 6 |

Additional information: educational activity, teaching assistantship, computer availability, desk availability, any other information

Individual funds are available to purchase books and material, participate to summer schools, workshops and conferences:

1st year: max 1.624,30 euros per student

2nd year: max 1.624,30 euros per student

3rd year: max 1.624,30 euros per student

Various forms of financial aid are available for both research and teaching activities. PhD students are encouraged to take part in these activities within the limits allowed by the regulations.

In the PhD room workstations are available for shared use connected with a printer. All PhD students can use their own laptop with a wireless connection. Workstations and other equipment are available in the various laboratories linked with the doctoral programme.



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