

| RESEARCH LINE 10A                            |  |
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| <b>COMPANY</b>                               | <b>Fundación Tatiana Pérez de Guzmán el Bueno</b>  |
| <b>PhD THESIS SUPERVISOR (UPM)</b>           | Prof. Dr. Julio Lumbreras Martín<br><i>Industrial Engineering School</i><br><i>Department of Chemical and Environmental Engineering</i>  |
| <b>PhD THESIS CO-SUPERVISOR (COMPANY)</b>    | <b>Co-Supervisor:</b> Dr. Álvaro Matud Juristo<br><i>Director of Institutional and Academic Relations</i><br><i>Fundación Tatiana Pérez de Guzmán el Bueno</i><br><b>Tutor:</b> Mr. Jesús Zamora Rodríguez<br><i>Director of Projects and Investments</i><br><i>Fundación Tatiana Pérez de Guzmán el Bueno</i>   |
| <b>DESCRIPTION OF THE PhD THESIS PROJECT</b> | <p>Delivery of the Sustainable Development Goals (SDGs) relies upon urban transformation processes, such as the achievement of climate neutrality in cities. This kind of transformations requires new models of efficient, effective and impactful collaboration. To develop sustainable solutions locally, strengthen connections among stakeholders, spread sustainable alternatives to the wider public, adopt non-linear and innovative working approaches, and assure an active role for local political actors, solid convening vehicles for sense-making, developing shared purpose and action planning are needed.</p> <p>Universities are particularly well-placed to create and maintain such vehicles relying on i) the combination of expert knowledge, youth talent and intangible assets such as legitimacy or neutrality; ii) their independence and capacity of developing SDG-oriented strategic programs and iii) research and training facilities that can be conceived as climate neutrality living labs. Multi-stakeholder partnerships based on the deep bond of the city council-university binomial nurtured with an active participation of corporate and civil society agents may help accelerate urban climate neutrality processes. However, universities also face a range of obstacles derived from an academic culture of disciplinary and organizational silos.</p> <p>Thanks to this research, UPM and the Tatiana Pérez de Guzmán el Bueno Foundation will have the opportunity to play a prominent role in the process of climate neutrality in the city of Madrid. Thus, the new organizational models necessary to consolidate a stable multi-stakeholder vehicle to accelerate the Madrid Climate Neutrality Roadmap will be explored, using the facilities of both institutions as living labs (particularly, the Moncloa Campus and the Finca Monte Paris). For this, the European project ‘Madrid Deep Demonstration’, a platform to reinforce the city’s climate neutrality process using a systemic innovation approach, led by the UPM and supported by the Madrid City Council and the European Institute of Technology (EIT Climate-KIC) will be conceived as one of the main cases to study in this doctoral research.</p> |
| <b>TRAINING ACTIVITIES</b>                   | <p>PhD candidate will benefit from UPM-Madrid Deep Demonstration trainings such as:</p> <ul style="list-style-type: none"> <li>- Madrid Deep Demo periodical trainings on systemic innovation principles, multi-stakeholder working, climate neutrality processes.</li> <li>- Healthy and Clean Deep Demonstration cross-city sharing sessions on nature-based solutions, sustainable mobility, urban retrofitting or regulatory innovations.</li> <li>- UPM doctoral seminars on research methodologies.</li> </ul>   |
| <b>SECONDMENT(S)</b>                         | [ <i>Tentative</i> ]<br>SDG Group. T. H. Chan School of Public Health. Harvard University.<br>Viable Cities. KTH, Stockholm.   |
| <b>REQUIREMENTS FOR CANDIDATES</b>           | MSc degree<br>Professional experience in multi-stakeholder environments.<br>Preferred urban background.<br>Capacity of analysis, autonomy, and generosity.   |