

## CALL FOR MASTER THESIS

### **The relationship between urban hyper-accessibility and land values. Is there a premium paid to live in a Fifteen-Minute City (FMC) environment?**

#### **Project framework:**

This MSc thesis is offered within the [GEMOTT](#) (Grup d'Estudis en Mobilitat Transport i Territori) research group, within ICTA and the UAB's Geography Department.

#### **Research Background:**

The fifteen-Minute City (FMC) is a new holistic model for urban planning based on the idea that residents in urban settings should have access to most of their basic needs (work, commerce, health, education and entertainment) within less than 15 minutes, on foot or by bicycle (Moreno, 2016. Duany & Steuteville, 2021). This concept, based on previous ideas of crono-urbanism, was firstly introduced by the mayor of Paris but has raised interest among both academics and urban planners from cities around the world due to its potential for responding to the Sustainable Development Goals in the New Urban Agenda of the United Nations.

The FMC concept is just the newest iteration of a school of thought that considers proximity and distance-based accessibility as the future of sustainable urban areas. There is however a huge research gap on the effects and externalities of such approaches. One of the more prescient gaps is the association between hyper-accessibility and land values. If only some specific areas of the city achieve the criteria to be considered a true FMC, will these areas have higher land prices, and are these areas more at risk of gentrification processes?

#### **Objectives:**

- a) This study will analyze the spatial relationship between hyper-accessibility and FMC conditions in Barcelona with real-state prices
- b) This research will also explore the implications of this relationship in terms of gentrification and the future of real state markets in Barcelona.

#### **Methods:**

To do so, the student will use a pioneering FMC map of the city of Barcelona, built upon a 100x100m resolution. The student will be in charge of looking for, managing and transforming a database with land-use prices and will be expected to use GIS-techniques to examine the spatial relationship between accessibility and real-state market values in the city.

Because of the technical aspects of the proposal, preference will be given to students with experience working with spatial datasets, GIS, SPSS, R and/or Python.

#### **Technical details:**

The thesis will be directed by Dr. Oriol Marquet with the collaboration of the rest of the GEMOTT members. We expect that a revised version of the MSc Thesis will be submitted to a peer-reviewed journal for publication. The final document can be presented in Catalan, Spanish or English.

**If you are interested on writing your MSc thesis on this topic, please contact [oriol.marquet@uab.cat](mailto:oriol.marquet@uab.cat)**