

CALL FOR MASTER THESIS

Modelling mobility future scenarios based on Spain's Plan Nacional de Energia y Clima using a travel behavior and LCA approach .

Project framework:

This MSc thesis is offered within the [GEMOTT](#) (Grup d'Estudis en Mobilitat Transport i Territori) research group, within ICTA and the LIVENlab, part of the [SosteniPra](#) research group.

Research Background:

Transport is among the human activities that contribute to global emissions the most. Significant effort has been put on recent years to try to curve the emission levels and decarbonize daily mobility. To that effect, Spain's Plan Nacional de Energia y Clima (PNIEC) has put forward a series of ambitious modal change and transformation objectives for the years to come. While some of these objectives for future change are ambitious, not much is known about the life-cycle environmental benefit/impact balance of vehicles and their use patterns.

Aim:

In this thesis, we propose to assess the environmental impact and benefits of PNIEC scenarios of modal change with an LCA perspective and considering travel behavior and other modal change factors.

Tasks:

- Policy review
- Travel behavior pattern analysis
- Life Cycle Analysis
- Writing of scientific article

Technical details:

The thesis will be directed by Dr. Cristina Madrid and Dr. Oriol Marquet. 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 cristina.madrid@uab.cat or oriol.marquet@uab.cat