

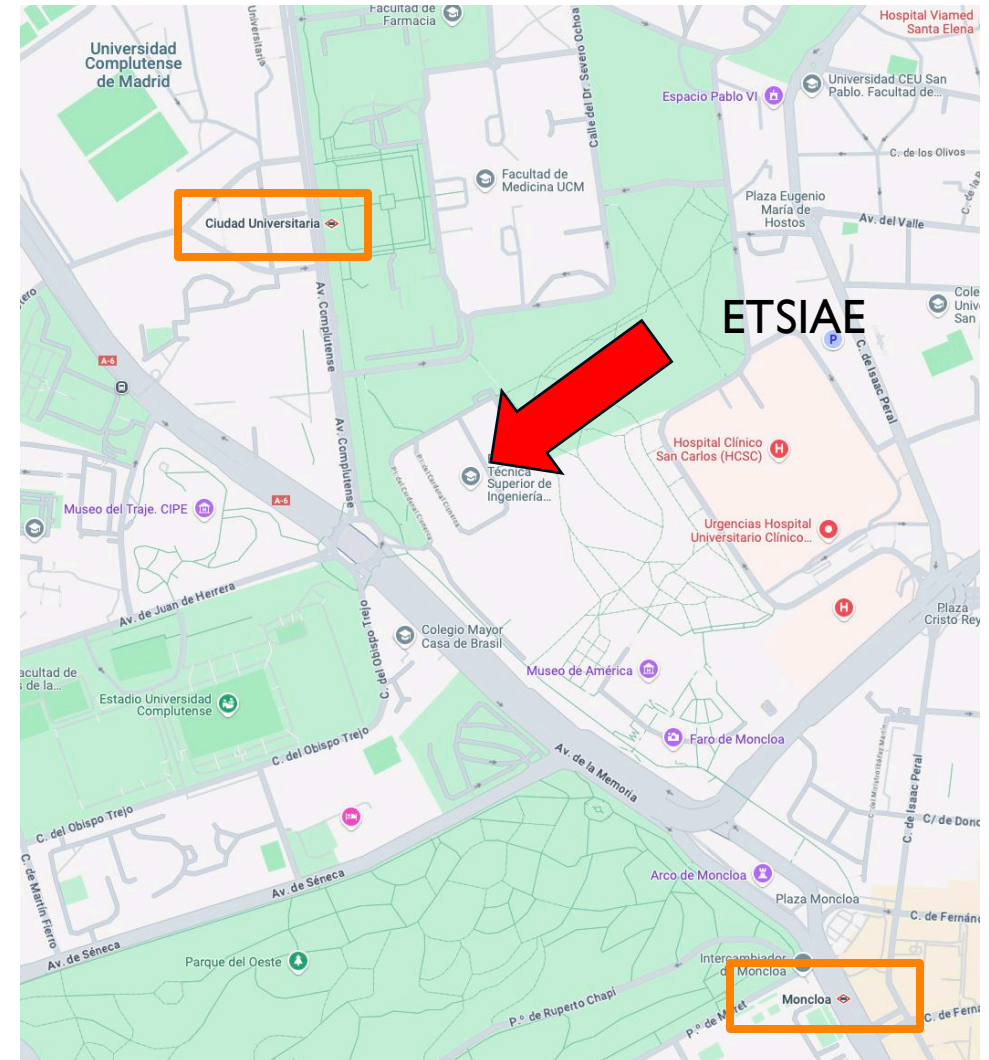
## Agenda – Workshop: Machine Learning for Complex flows

Thursday - 06/02/2025	
8:30	Registration / Sign attendance list
<b>09:00 – 09:10 Welcome with Anh Khoa Doan (WG Leader)</b>	
09:10- 09:15	Claim Reimbursement Guidelines with Patricia Domingo Alvarez (GHM)
WORKSHOP	
09:15 - 10:00	<b>Alberto Cuoci (POLIMI)</b> – Title to be provided <i>General topic: Acceleration Methods with Machine Learning</i>
10:00- 10:30	Break
10:30 - 11:15	<b>Esteban Ferrer (UPM)</b> – Towards an RL-Driven CFD Solver for Enhanced Simulations
11:15 - 12:00	<b>Taraneh Sayadi (CNAM)</b> – Data-driven modelling and reduction of complex flows
12:00 – 13:00 POSTER SESSION	
13:00- 14:30	Break
14:30-15:15	<b>Andrea Ianiro</b> – Neural encoding and event-based signal processing: opportunities for advanced data sampling in turbulence
15:15 - 16:00	<b>Stefano Discetti (UC3M)</b> – Machine learning to enhance turbulent flow measurements
16:00- 16:30	Break
16:30 - 17:15	<b>Kamila Zdybal (EMPA)</b> – How can machine learning support PIV?
17:15 – 18:00	<b>Florence Vermeire (KU Leuven)</b> – Graph neural networks for physicochemical property prediction
<b>20:00</b>	<b>Social Dinner</b>
Friday - 07/02/2025	
8:30	Registration / Sign attendance list
09:00 – 09:45	<b>Anh Khoa Doan (TU Delft)</b> – Machine Learning for Flame Dynamics Analysis and Modelling
09:45 – 10:30	<b>Salvatore Iavarone (CentraleSupélec)</b> – (Machine) Learning from the Past: Data-Driven Forecast of Dynamical Systems
10:30- 11:00	Break
11:00 - 11:45	<b>Luca Magri (Imperial College)</b> – Real-time modelling
11:45 - 12:30	<b>Soledad LeClainche Martinez (UPM)</b> – From modal decompositions to machine learning tools: how to include physical knowledge in data-driven models
12:30 – 13:15 POSTER SESSION	
13:15- 14:30	Break
14:30 - 15:15	<b>Miguel Mendez (VKI)</b> – Methods to Integrate Machine Learning in Fluid Dynamics Engineering
15:15 - 16:00	<b>Antonio Attili (University of Edinburgh)</b> – Title to be provided <i>General topic: Machine Learning Strategies for Closures</i>
16:00- 16:30	Break
16:30 - 17:15	<b>Alessandro Parente (ULB)</b> – Accelerating reacting flow simulations with data-driven methods
<b>17:15</b>	<b>Farewell Cocktail</b>

# How to arrive to the ETSIAE

The ETSIAE is between two Metro Stations:

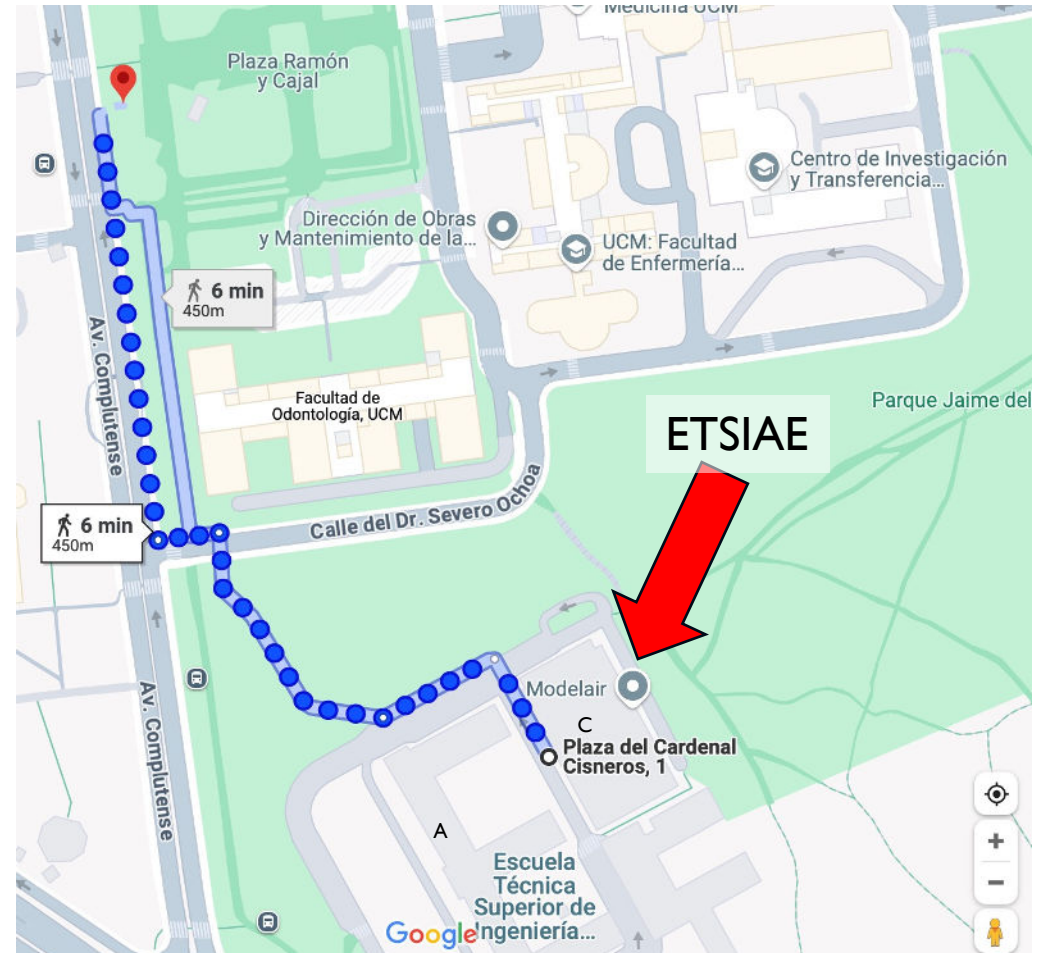
- Ciudad Universitaria (L6 – Grey line)
- Moncloa (L3 – Yellow line & L6 – Grey line)



# How to arrive to the ETSIAE

From Ciudad Universitaria

- It takes 6 minutes walking



# How to arrive to the ETSIAE

From Moncloa

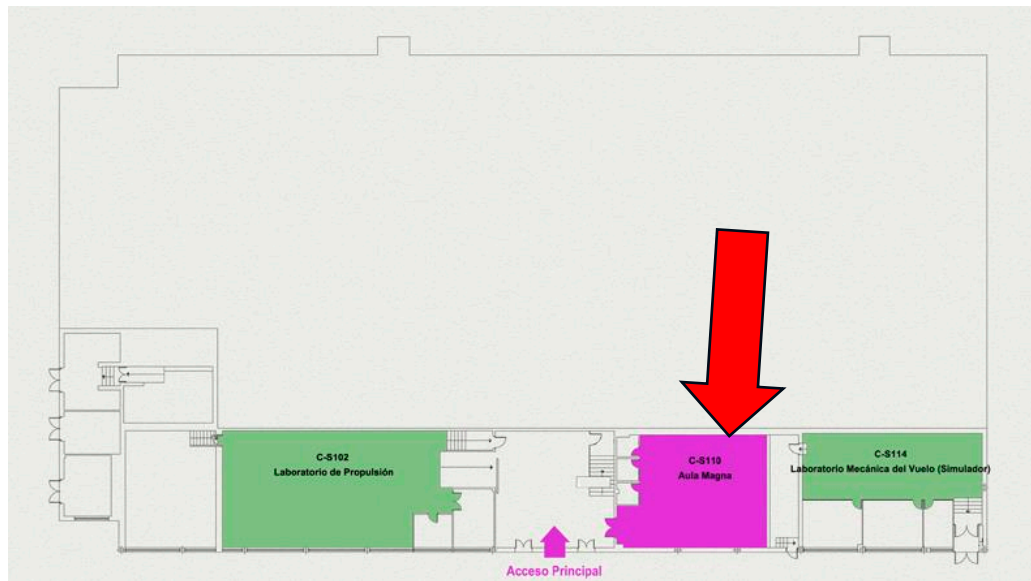
- It takes around 15 minutes (this time is true)



# ROOM

## Workshop – Thursday and Friday

- Aula Magna (C-S101)



<https://www.etsiae.upm.es/index.php?id=549>

# How to arrive to the Social Dinner: Inclán Brutal Bar

[Calle de Álvarez Gato, 4, Centro,  
28012 Madrid](#)

From ETSIAE:

Take the Metro at Moncloa up to Sol,  
then walk for 5 minutes.

