



ESCUELA
POLITÉCNICA
SUPERIOR



BIP Program - Energy: generation,
storage and management



Seville, May 2024
20th - 24th May

CATEPS

General Information

Dr. Ana M. Beltrán Custodio

Seville, 20th May 2024



Organisers



Ana M. Beltrán



Enrique Personal



Manuel A. Félix



Diego F. Larios



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BIP Energy: Generation, Storage and Management



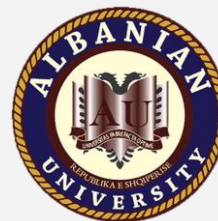
<https://eps.us.es>



Università
di Genova



TECHNICAL UNIVERSITY
OF KOŠICE



<https://institucional.us.es/energybip>



SAPIENZA
UNIVERSITÀ DI ROMA

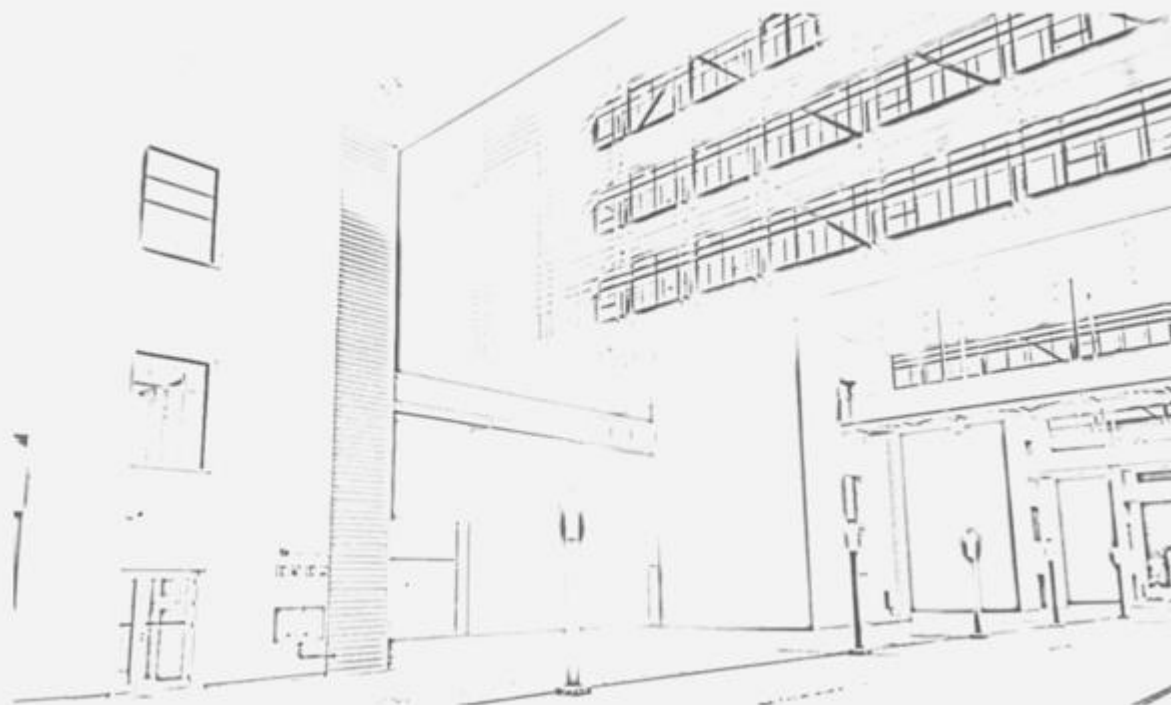


UAlg

UNIVERSIDADE DO ALGARVE



TECHNISCHE UNIVERSITÄT
ILMENAU



UNIVERSITÉ
CÔTE D'AZUR



THE ENTREPRENEURIAL
SCHOOL



UCG
Univerzitet Crne Gore



Haaga-Helia

University of Applied Sciences



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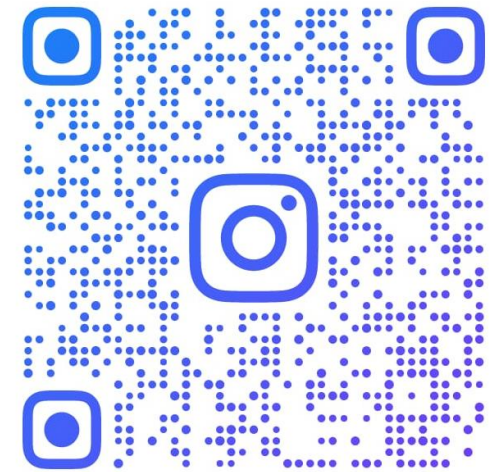


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<https://institucional.us.es/energybip/>

- Program
- Practical information (map, weather)
- Social activities



@BIPENERGY2024



WiFi

GUEST NETWORK



- User: Eventos_GSM
- Password: Gsm_2024



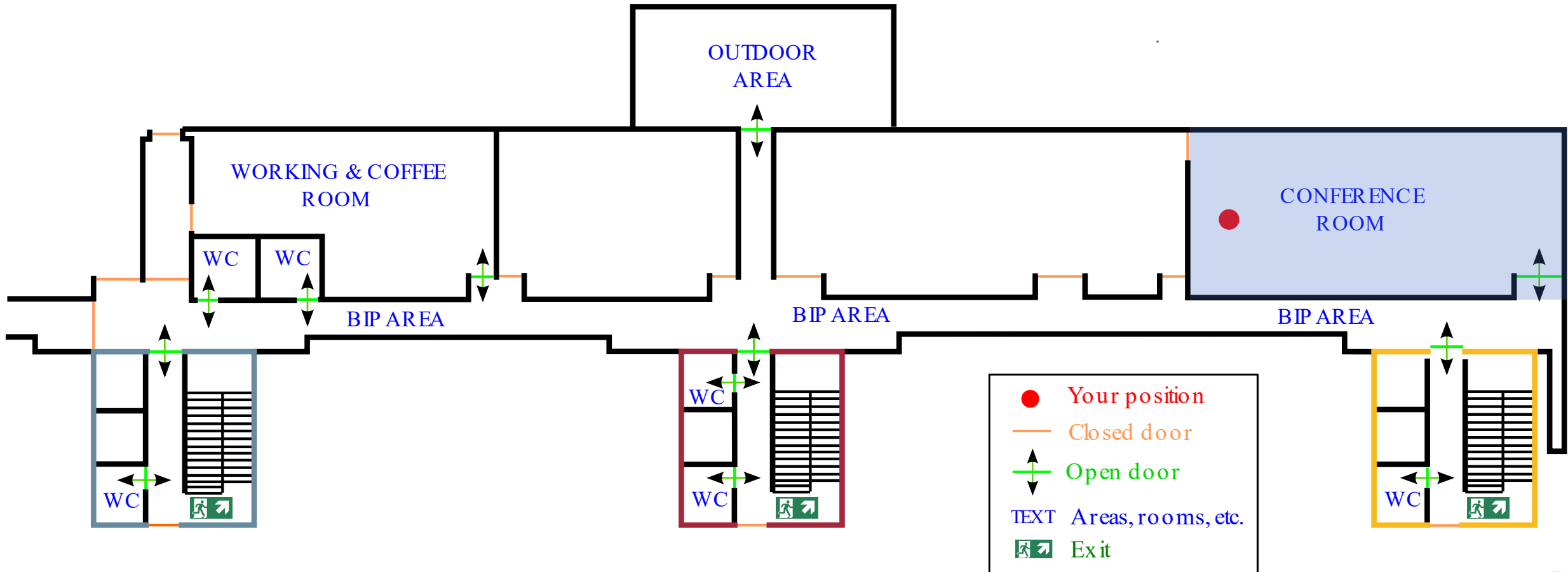
Schedule



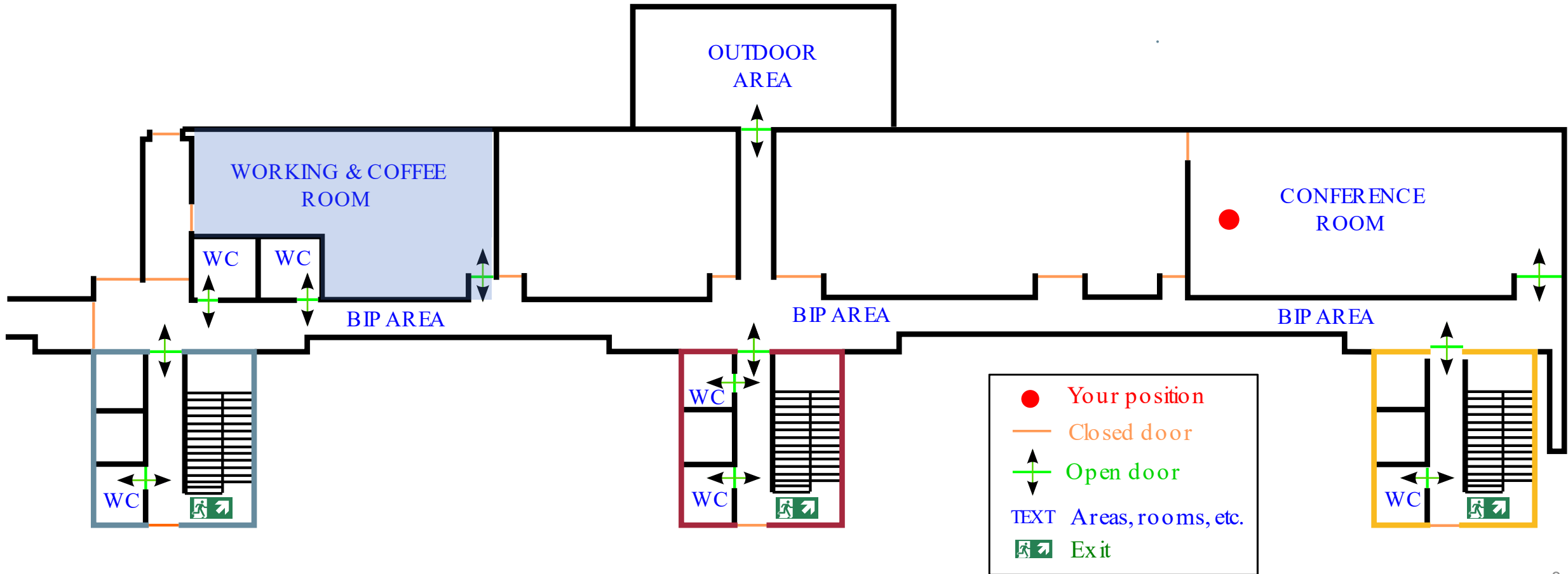
| | Monday | Monday | Tuesday | Wednesday | Thursday | Friday |
|-------|--|--|--|--|---|--|
| | 13 th May | 20 th May | 21 th May | 22 th May | 23 th May | 24 th May |
| Start | Online (Mobility) | Day 1 (AI) | Day 2 (Generation) | Day 3 (Storage) | Day 4 (Management) | Day 5 (Impact) |
| 8:30 | Presentation | Registration | Organizational Issues | | | |
| 9:00 | | Welcome | Conference 3 Safety of rechargeable energy. Roberto Bubbico (La Sapienza) | Working Team | Conference 4 Optimization-based Energy Management Systems for smart grids. Michela Robba (Univ. Genova) | Conference 5 Geostrategy, ensuring supplies in times of war. Rafael Sanchez (ENDESA) |
| 9:30 | | CATEPS Introduction | | | | |
| 10:00 | Coffee Break | | | | | |
| 10:30 | Conference 1 Electric mobility in the context of smart networks and buildings. Stefano Bracco (Univ. Genova) | Conference 2 Physics Informed and Trustworthy AI for Smart Energy Systems. Luca Oneto (Univ. Genova) | Workshop 2 Visit CATEPS Microgrid | Workshop 4 Practical Foundations on Deep Learning . Javier M. Mora (US) | Working Team & Presentation | Discussion of the results. Closing Remarks. |
| 11:00 | | | Team Building | | | |
| 11:30 | | Lunch | | | | Farewell Lunch |
| 12:00 | Workshop 1 Foundations on Deep Learning. Javier M. Mora (US) | Workshop 3 Solar Oven. Celestino Ruivo (Univ. Algarve) | Workshop 5 Sustainable future in battery sector. Eeva Aarnio (H-Helia) | | | |
| 12:30 | End of session | | | | | |
| 13:00 | Guide Tour (visit Seville) | 18.45 Horse carriage tour (Meeting point: Plaza de Toros) | 20.45 Flamenco Evening | 17.30 Alcázar Tour (meeting point at 17.15) | | |
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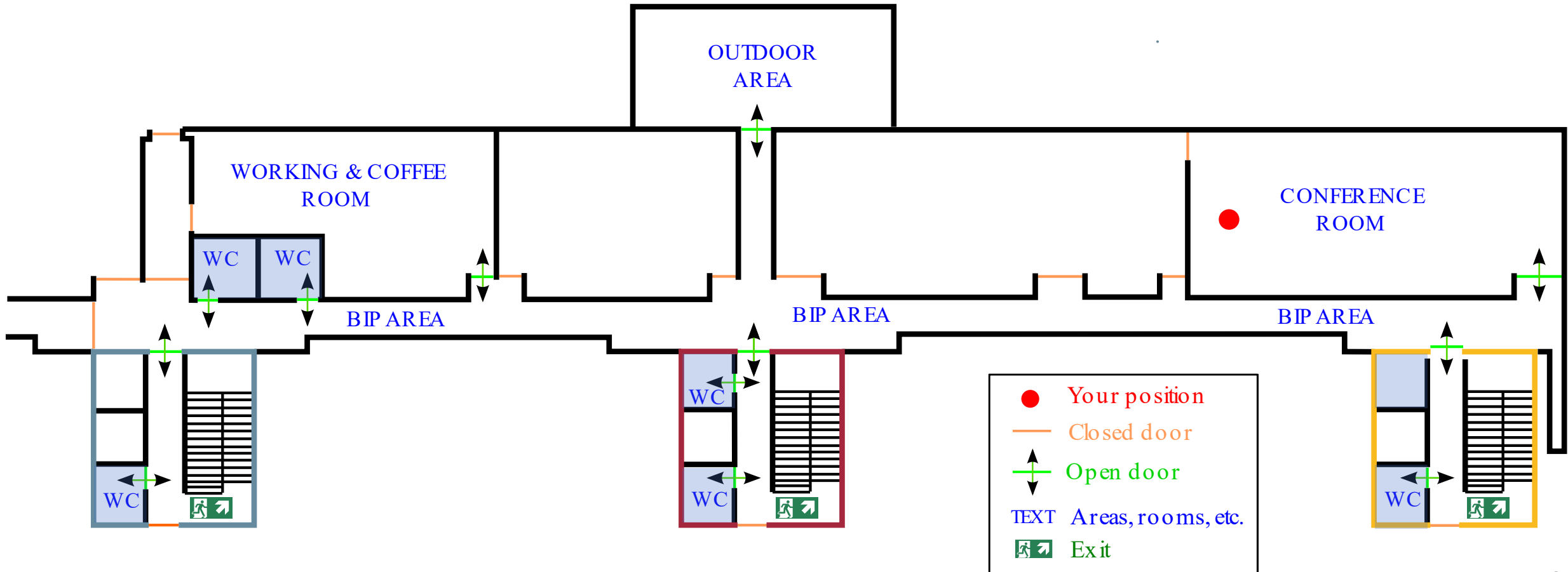
Plans



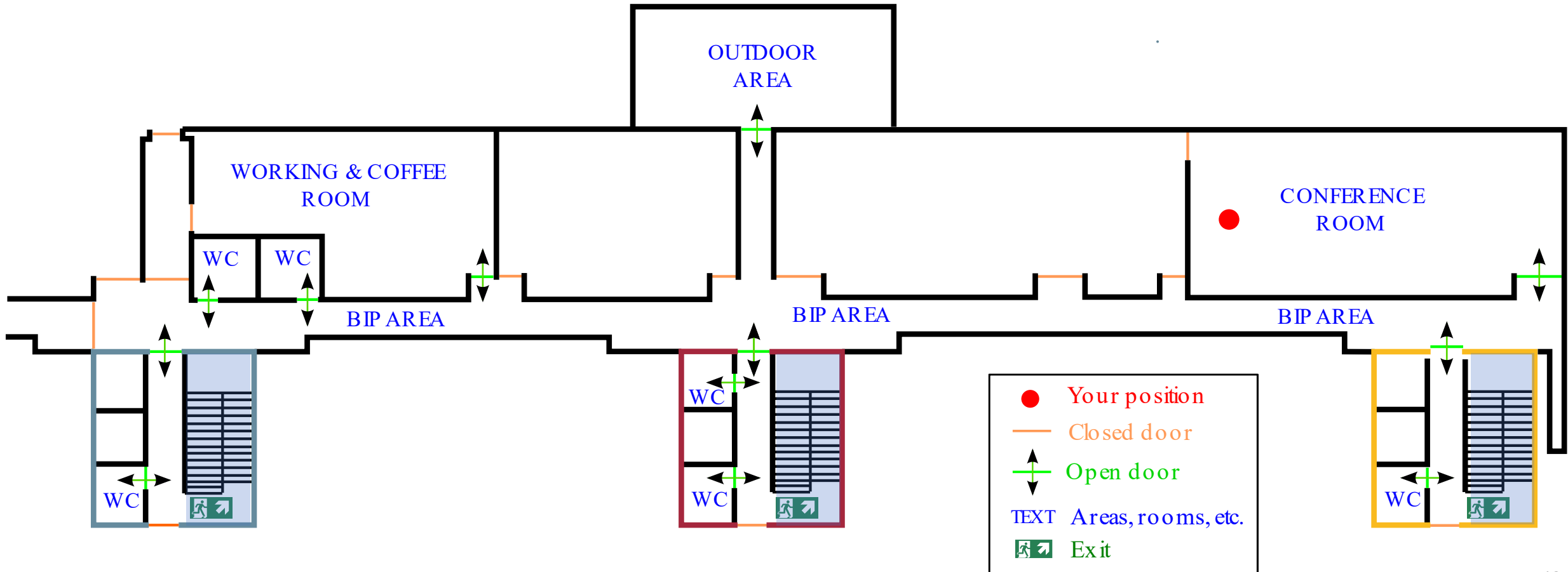
Plans



Plans



Plans





Student work

- Groups of students will present their work on the “Presentation” session (Thursday).
 - Exposure time: 10 minutes/group
 - The presentations will have a question period at the end.
 - Maximum 5 people/group.
 - No more than 2 students from the same University of origin per each group.

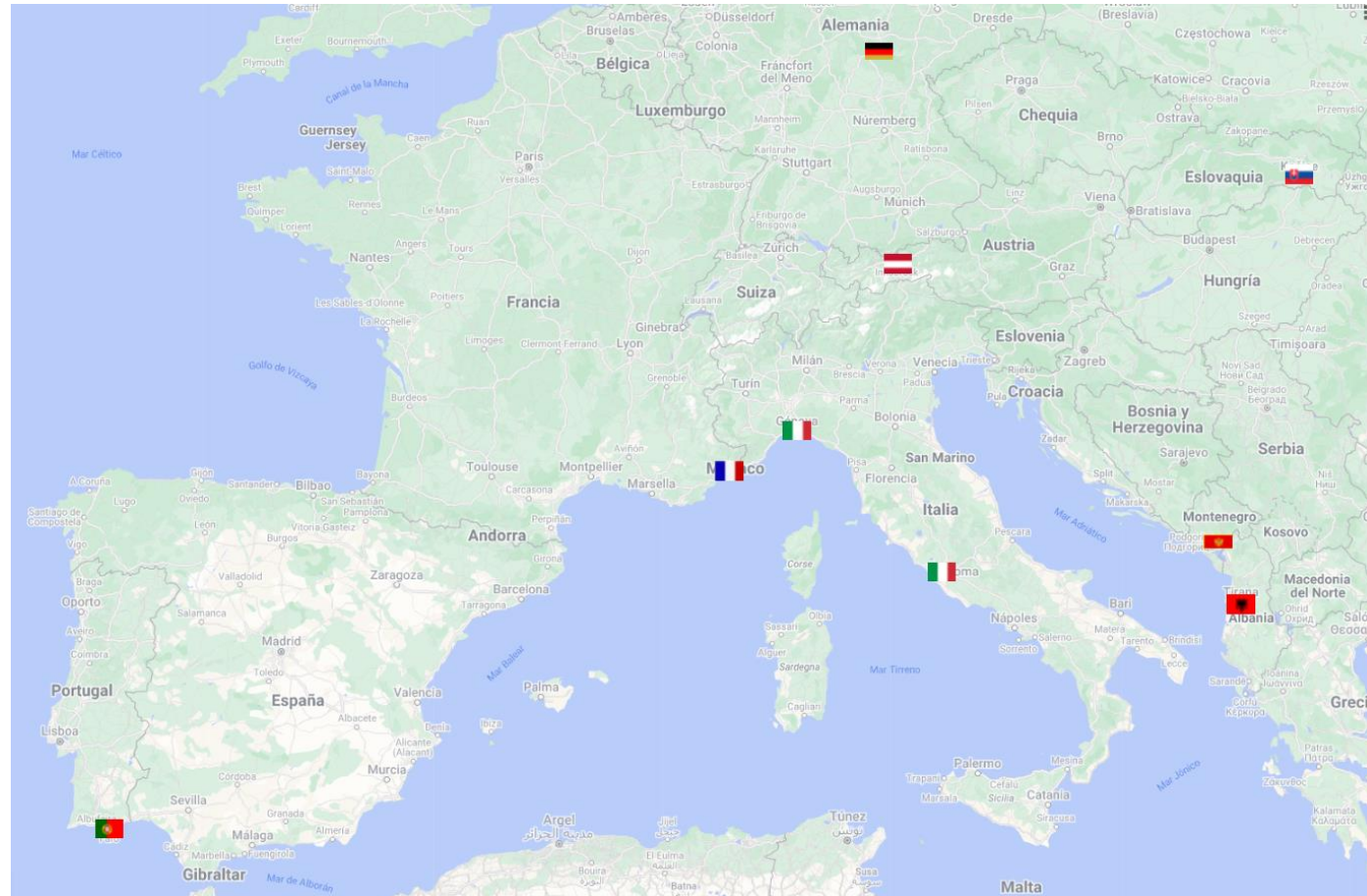
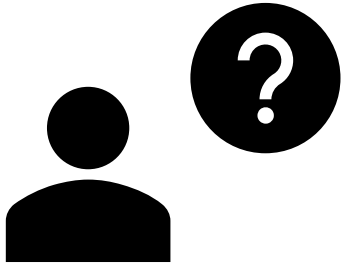


Student work

- List of tentative works:
 - Challenges of using Hydrogen as an energy vector.
 - State of the art of the disaggregation of electrical consumption.
 - Current AI models for studying Lithium battery degradation.
 - Electric mobility
 - Sustainability & energy
 - Smart grids
 - Efficient energy management
 - Any idea?



Presentations





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Break



We are back at 11.30



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Conference 2

Physics Informed and Trustworthy AI for Smart Energy Systems



Prof. Dr. Luca Oneto
Univ. Genova (Italy)