

LECTURE SUMMARY

Sustainable mobility

EXPECTED LEARNING OUTCOMES

- Get familiar with sustainability and specifically sustainable mobility principles
- Learn how sustainable mobility relates with other disciplines
- Identify the needs of the various users (women, children, elderly, people with disabilities, immigrants, etc.)
- Learn about the sustainable modes (public transport, walking, cycling and micromobility), assess and formulate sustainable mobility schemes conceptually
- Comprehend the role and the importance of a human-oriented transport planning, via utilising urban planning and design solutions
- Learn the basic conceptual methods to plan an integrated transport system via the lens of street classification

SUMMARY OF THE LECTURE

The spread of car use, mainly after the 50s, shaped car-dependent urban environments where serious issues are encountered. Hence, new perspectives envisioning a different future for cities have emerged. In this context, Sustainable Urban Mobility is a well-known concept describing a transport system that addresses the complex mobility needs via promoting active mobility (walking and cycling), public transport and micromobility, while restricting car use. There is an ongoing shift in various cities worldwide from conventional to sustainable mobility schemes, thus making this concept quite important for future studies within the urban planning and transport field.

On this basis, the lecture "Sustainable Urban Mobility Planning" will attempt to cover an introduction to the sustainable urban mobility concept, with the aim to endorse students obtaining the relevant knowledge and skills. First and foremost, the concept of urban mobility and its significance are presented. Afterwards, emphasis is given to sustainable mobility definitions, characteristics, goals and principles. Moreover, students will have the chance to see the relation with other disciplines, thus understanding thoroughly the integrated nature of the sustainable mobility concept. What is more, the lecture provides



notes on the sustainable transport modes, especially focusing on their benefits and emerging challenges. Additionally, students may find information about the users of a transport system; this will facilitate them to comprehend the complexity and diversity encountered in urban mobility realm. Finally, the lecture will demonstrate ways of planning sustainable mobility systems through an integrated approach such as street classification, superblocks, urban planning etc.

In summary, this this lesson aspires to introduce students to sustainable mobility principles. All the topics presented are essential for outlining the basic characteristics of sustainable urban mobility theory and practice that will allow students to attend a multidimensional course, discussing issues through an interdisciplinary viewpoint.

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Co-funded by
the European Union

