

# LECTURE SUMMARY

## Introduction to Integrated Urban Models

### EXPECTED LEARNING OUTCOMES

- Understand what an Integrated Urban Model is
- Develop a conceptual framework to consider how data types relate to urban systems, activities and outcomes
- Appreciate how IUMs could be applied to real world challenges

### SUMMARY OF THE LECTURE

Provides an introduction to Integrated Urban Models (IUM), an advanced approach to urban analysis. The lecture explains how IUMs helps better understand the contribution of the built environment to daily behaviours and complex long-term outcomes including health and climate change. It provides a framework to consider how the multitude of available datasets can contribute to this understanding, proposes that analysis of the built environment itself is critical to explain why activities happen, and therefore is essential to understand in shaping new places. The session shows example outputs, sets out how these have been validated, and provides examples of their application to real world projects.

### REFERENCES

Parham et Al, Outcome-focussed urban planning and design,  
<https://www.hvl.no/globalassets/hvl-internett/arrangement/2022/13sss/355parham.pdf>

Parham et Al, But can I walk to work?, <https://salus.global/article-show/but-can-i-walk-to-work>