

ARGENTINA ITACET-ITACUS WORKSHOP

ONLINE 27 OCTOBER 2022 – 14:30-17:00 CET

PROGRAMME – version 1

Presented by , co-chairs of ITACUS Han Admiraal and Antonia Cornaro

All session topics consist of 30-minute lectures; intro and wrap-up total 30 mins

The content is based on ITACUS' work and its co-chairs book "Underground Spaces Unveiled – Planning and Creating the Cities of the Future" (ICE, 2018)

Session 1: introduction and overview: the subsurface as the final urban frontier

- *Introduction: Why video, ITACUS, our vision, the work ITACUS does (Han /Antonia) – 15 min*

A short introduction to the course on what underground space has to bring to cities and on the ITA Committee of Underground Space and the work this committee does.

- *Urban underground sustainability - Achieving harmony between humanity and nature – Antonia (chapter 2) – 30 min*

Based on chapter 2 of the book written by Antonia Cornaro and Han Admiraal, Underground Spaces Unveiled: planning and creating the cities of the future, this lecture will focus on how to strike a balance between the concept of underground space and the subsurface itself. Can we develop below the surface in every location? Is it feasible just because we have the technology to construct underground spaces.

- *From Yaodong to the third dimension – historical approaches to underground urbanism - Han (book chapter 3) – 30 min*

Han Admiraal will focus in this lecture on the historical approach to underground spaces and how it evolved to what we now know as underground urbanism. He will describe the work of earlier pioneers and how these ideas led to an urban service layer below the surface. In contrast underground urbanism raises important questions as to how we should develop below the surface in such a way that it complements the city and its existing urban fabric.

15 min break

Session 2: Planning aspects for the use of large-scale underground spaces

<https://about.ita-aites.org/wg-committees/itacus>

- *Policy building and urban planning* – Antonia (chapter 5) – 30 min

In this lecture Antonia Cornaro will focus on how the use of underground space can be included in policy and urban planning. Much of the work ITACUS is doing concentrates on pointing out to policy makers and decision makers that they need to have a more extensive knowledge on the subsurface beneath their cities. This makes sense from a resilience point of view, it also makes sense in defining those volumes that potentially can be used for future subsurface development.

- *Spatial design – creating a new urban tissue* – Han (chapter 4) – 30 min

When we want underground spaces to become part of the urban fabric they must be designed in such a way that they create a new urban tissue. Han Admiraal will discuss in this lecture what needs to be considered and will give examples of how this can be achieved as well as examples that missed the point and resulted in isolated spaces often serving a single purpose. In his opinion the subsurface should be integrated with surface development and be designed in such a way that it serves multiple purposes.

- *Q&A and Wrap-up* (Han/Antonia) – 15 min

A Q&A session to answer all the queries that those attending may have followed by a summary of what has been presented.