

The Dynanism of Underground Space

Han Admiraal & Antonia Cornaro

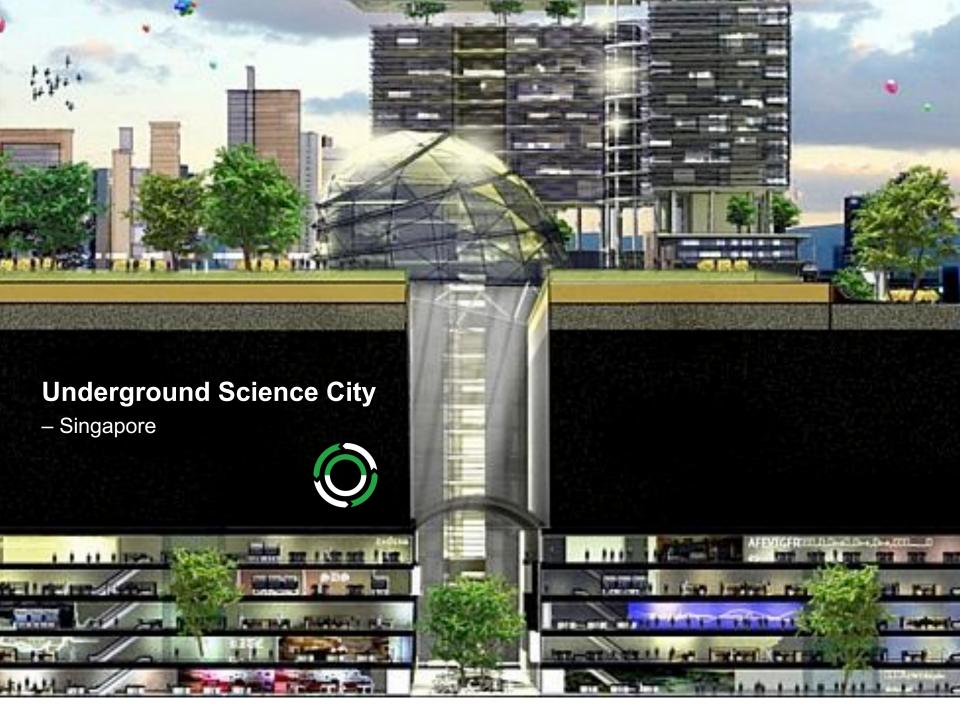
REAL CORP 2017

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THE CHALLENGES WE FACE

RESILIENT SUSTAINABLE INCLUSIVE LIVABLE





If the earth must lose that great portion of its pleasantness which it owes to things that the unlimited increase of wealth and population would extirpate from it, for the mere purpose of enabling it to support a larger, but not a better or a happier population, I sincerely hope, for the sake of posterity, that they will be content to be stationary, long before necessity compels them to it

John Stuart Mill, 1848







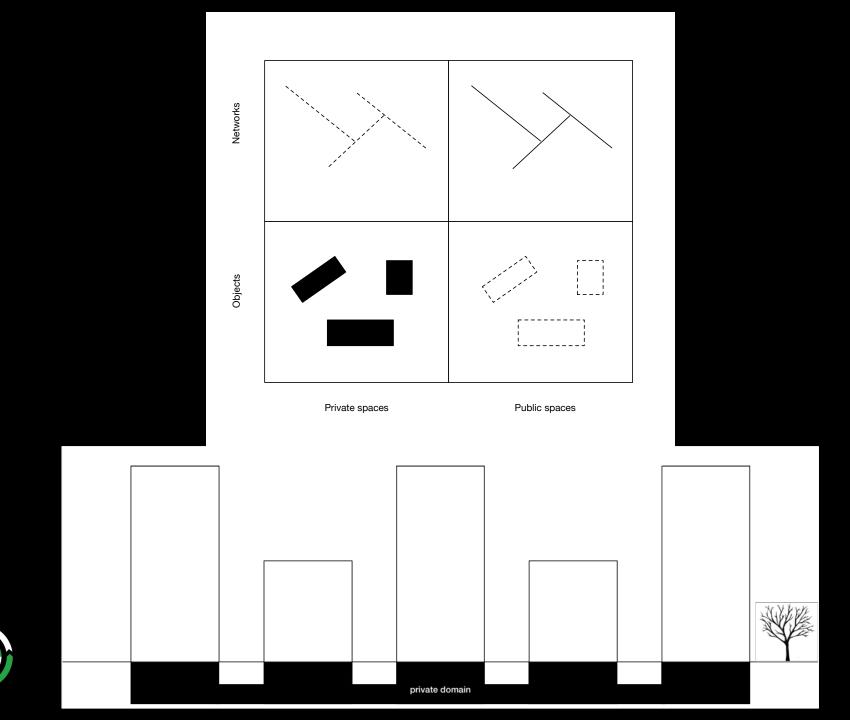
CAN UNDERGROUND SPACE HELP?

STORAGE MULTI-USE CORRIDORS









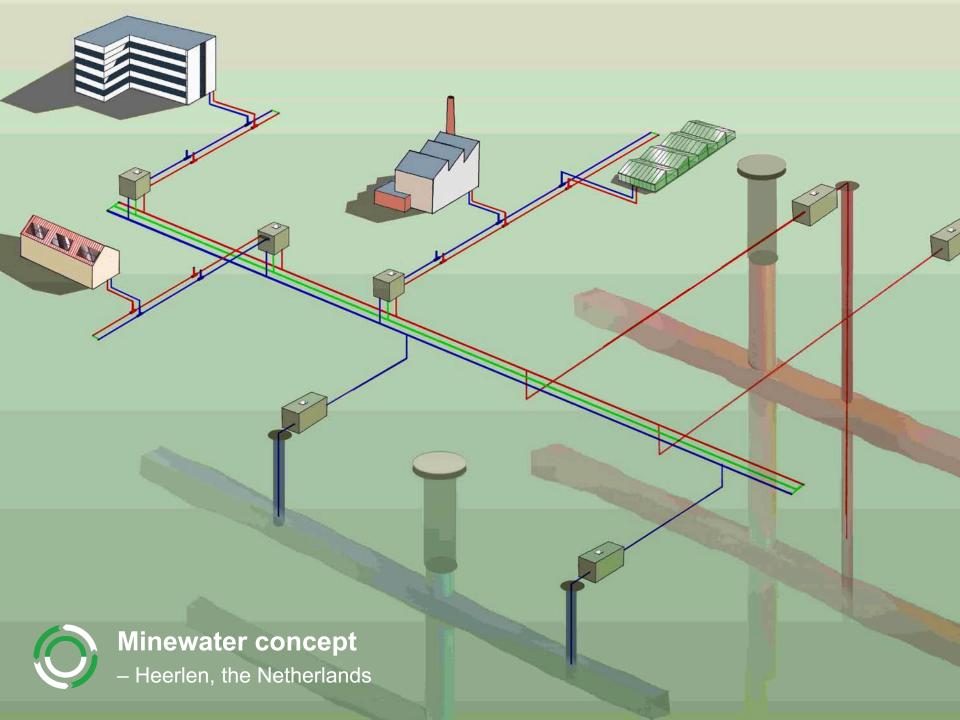
BEFORE WE BECOME TOO EXCITED

STARRING GEOLOGY





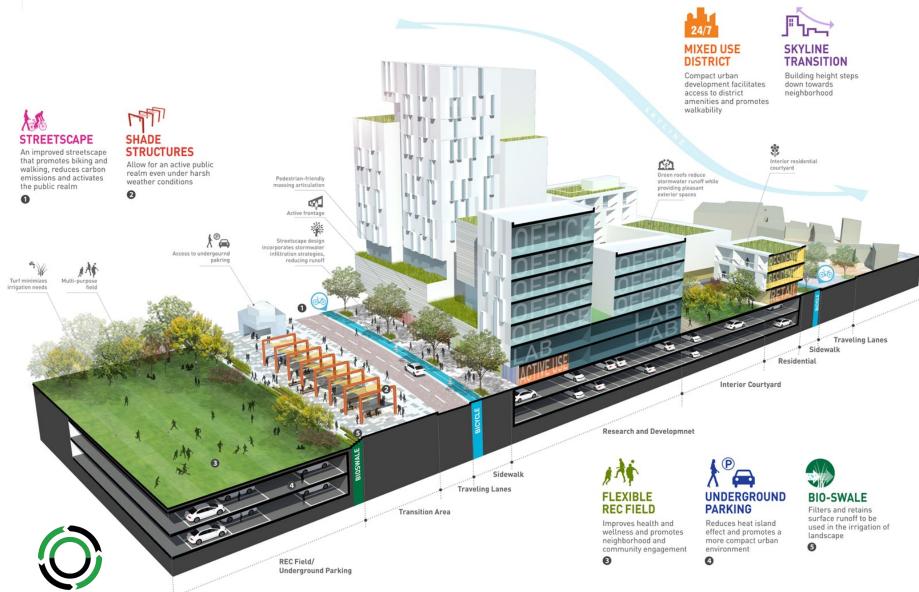






Tecnológico de Monterrey Urban Regeneration Plan

- Monterrey, Mexico

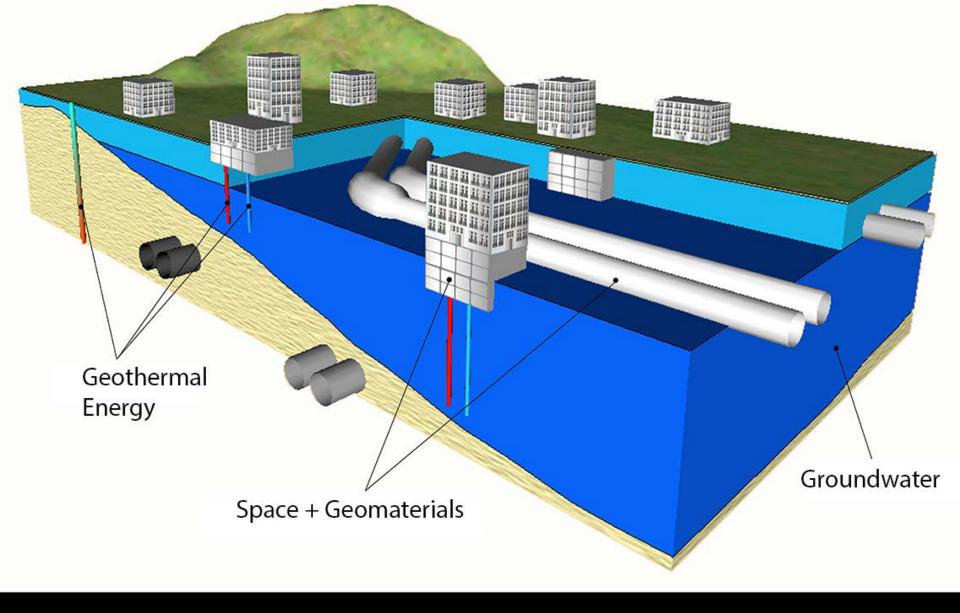




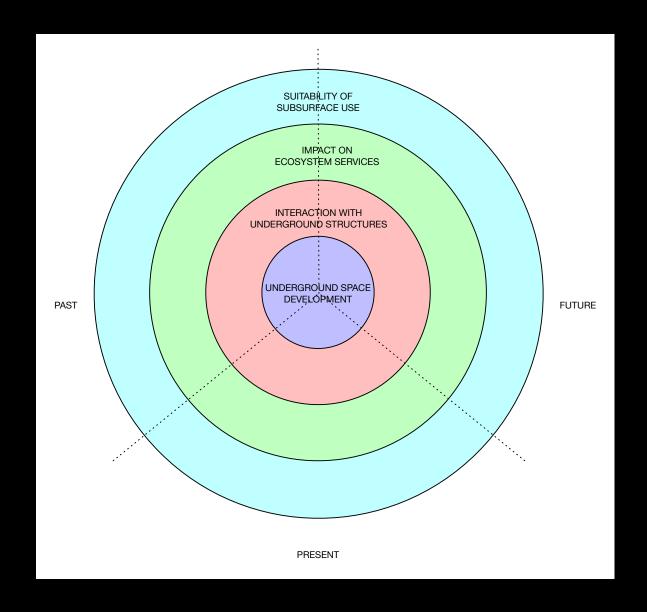
UNDERGROUND SPACE DYNAMISM

EXPLOITATION PRESERVATION











Decision Framework for Underground Space Use

Admiraal/Cornaro

Underground Space Awareness

Strategic Underground Planning

Participatory Underground Planning

Underground Space Management

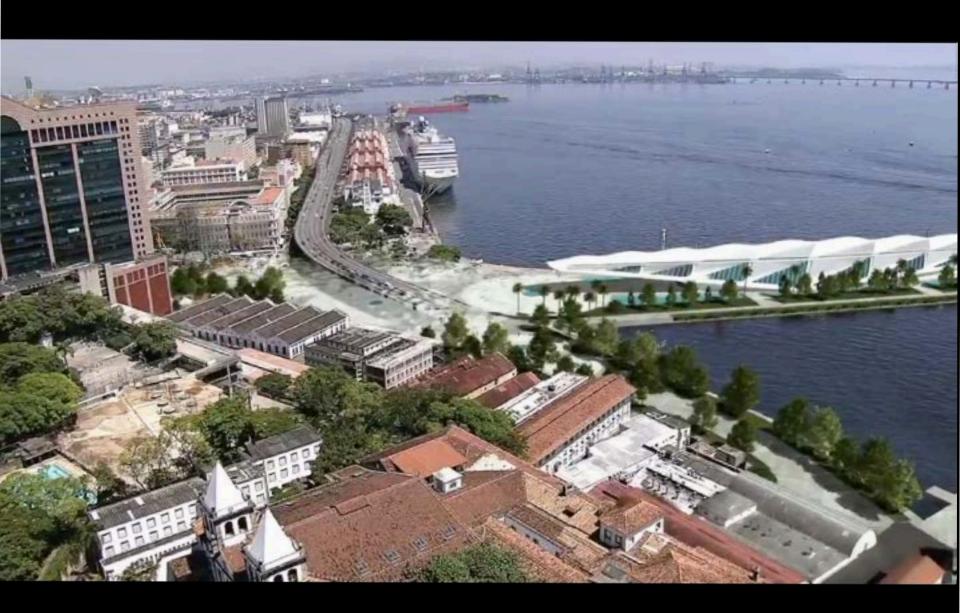


WHAT UNDERGROUND SPACE HAS TO OFFER

RECONNECTING







UNDERGROUND DYNAMISM REQUIRES COLLABORATION





YOUNG PROFESSIONAL'S THINK DEEP PROGRAM (YPTDP)

- ITACUS Activity Group 1 in collaboration with ISOCARP

Glasgow (2016) – Wroclaw (2017)

Dubai, Lyon, and Hong Kong next?







Chair Han Admiraal

W itacus.ita-aites.org

in

Vice Chair Antonia Cornaro

E itacus@ita-aites.org

LinkedIN group ITACUS

Our book on Underground Space

Invisible Spaces Unveiled

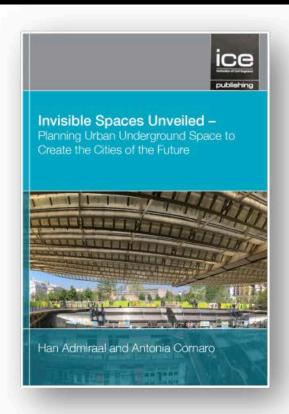
Han Admiraal, Enprodes, Netherlands Antonia Cornaro, Amberg Engineering, Switzerland

Description:

Invisible Spaces Unveiled is a broad overview of the concept of underground space development investigating the issues that are associated with the sustainable development of urban underground space and creating the cities of the future.

This book unveils the benefits, the possibilities and world-class examples of underground space development and how that translates into sustainable urbanisation.

Written by an engineer and an urban planner ensuring a balanced view and wide appeal, the book is intended for civil engineers, urban planners, urban designers and architects as well as anyone involved with the future of urban development.





Thank you Any questions?

W itacus.ita-aites.org

E itacus@ita-aites.org

Han Admiraal | E han.admiraal@enprodes.nl | ITACUS & Enprodes Management Consultancy, Delft, the Netherlands

Antonia Cornaro | E acornaro@amberg.ch | ITACUS & Amberg Engineering AG, Zurich, Switzerland

