

The COST SUB-URBAN Toolbox:

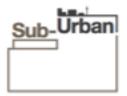
products and good practices that connect subsurface specialists with urban planners and decision makers

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Ignace van Campenhout, Mario Bacic, Jan Jelenek April 24th 2018



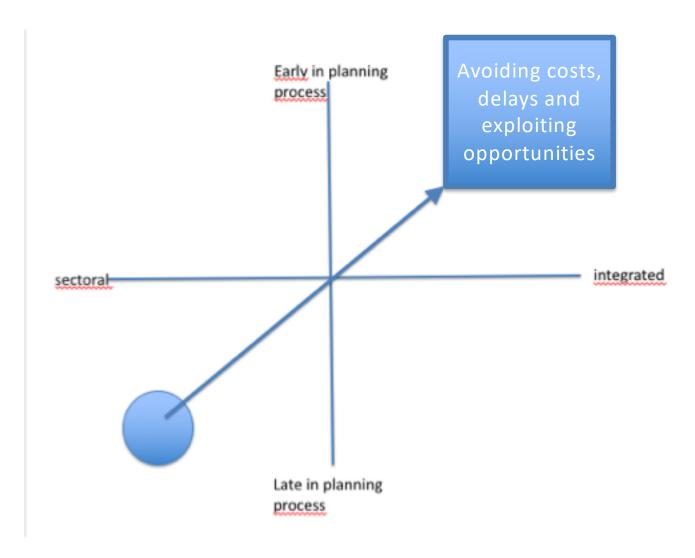






Urban geologist -





"Subsurface Broker" selling the subsurface to urban planners and decision makers



2018 2007

De metro van de Hoekse Lijn

Dat blijkt uit onderzoek van RTV Rijnmond en de NOS.

Voor het project was een kleine 400 miljoen euro beschikbaar. Wie voor de extra kosten gaat opdraaien, is nog onduidelijk.

De ombouw van de Hoekse Lijn tot met De Rotterdamse gemeenteraad wordt woensdagavond vertrouwelijk over het debacle geïnformeerd. Het nieuwe uitstel gaat vele tientallen miljoenen euro extra kosten.

> Sinds april wordt er gewerkt aan de ombouw van de spoorlijn tot metroverbinding. Aanvankelijk werd gemeld dat de verbouwing in september dit jaar klaar zou zijn, maar dat bleek al snel veel te optimistisch.

Er waren onder meer problemen met de software voor de spoorwegbeveiliging. Ook werden er op onverwachte plaatsen kabels en leidingen aangetroffen en was er sprake van bodemvervuiling.

De opening werd daarom met vijf maanden uitgesteld tot februari volgend jaar. Maar ook dat tijdschema is onhaalbaar, blijkt nu.

Volgens verschillende bronnen wordt de lijn pas eind volgend jaar in gebruik genomen. Dat betekent dat ovreizigers langer gebruik moeten blijven maken van bussen.



Bringing together experts who develop Urban Subsurface knowledge ...

...and those who can benefit most from it

expertise and knowledge in the field of integrated urban planning has been gathered and exchanged.

COST Sub Urban Deliveries 2013-2017

City reports

city setting, planning issues with underground, economic aspects, quality of life, governance, state of infrastructure, the state of urban planning, legal framework

Working Group reports on topics

Subsurface urban planning, Data mngnt., 3D modelling, groundwater, geothermal, geotechnical, geochemistry, cultural heritage

STSM reports

(Short term visits, exchange of skills and methodologies on above topics)















Deliveries 2013-2017 cont'd

Publications



Workshops











Contributions to conferences, events, final conference





13–16 March 2017 Bucharest, Romania

Website

"how we produced the information"



EST EFFORT KNOWLEDGE EXCHANGE TOOLBOX NEWS

EVENTS PUBLICATIONS



AAS-JAKOBSEN

- COST Sub-Urban brought together a lot of knowledge
- but equally important: we brought together the people with this knowledge, we have established a community:
 - with professionals from various disciplines and
 - with various professional organisations









Sub-Urban Toolbox

- webbased
- users: subsurface specialists, urban planners, decision makers

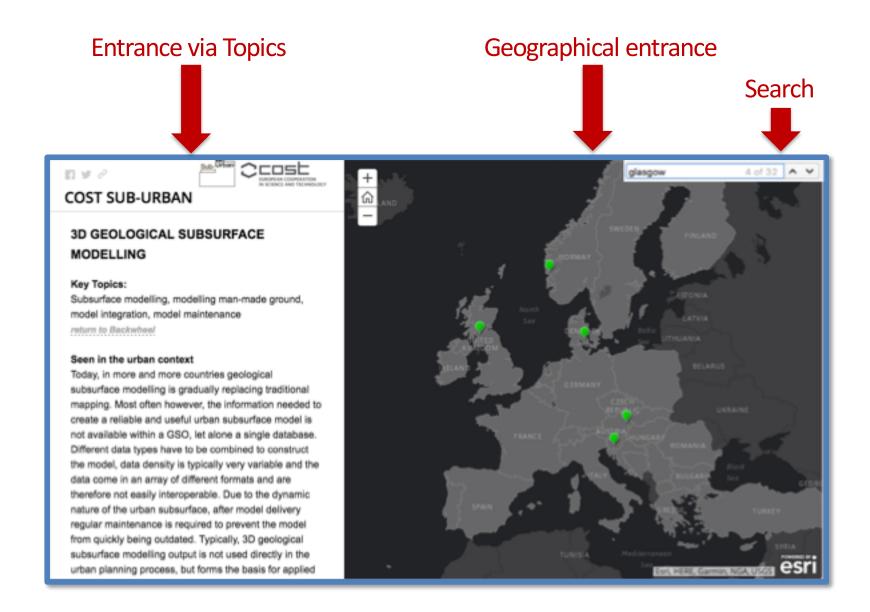
- state-of-the-art products: "what", videos, viewing facilities without need for sophisticated software,
- but also processes: workflows, "how" and "when"
- community, names, adresses, video introductions,
- networking platform "join us",

is a training tool

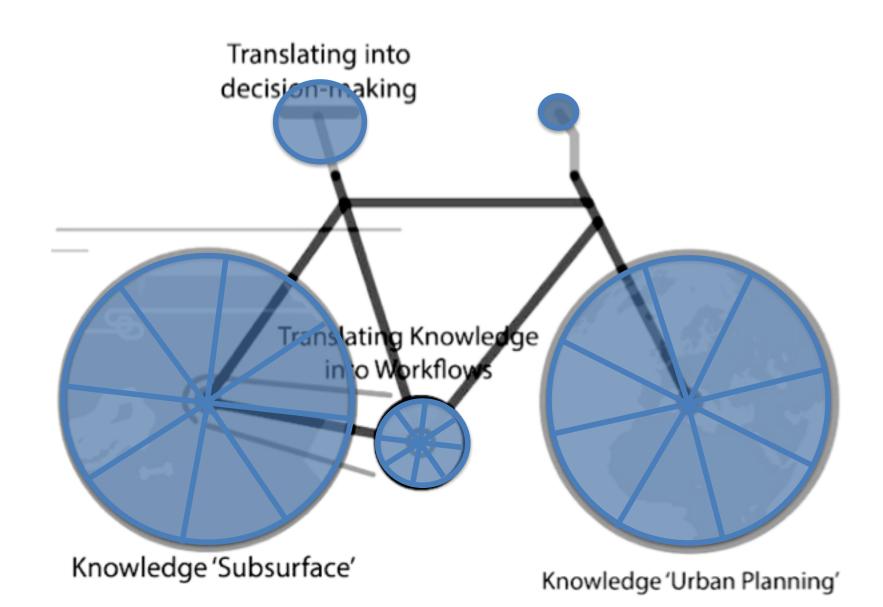
"serving as inspiration for your city, helping you with your process in moving upwards"

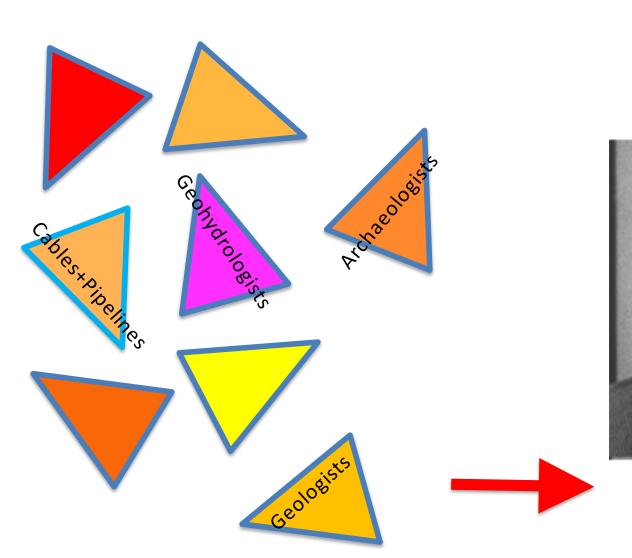
Toolbox:

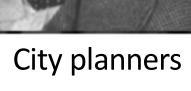
"how users will look for the information"



Navigating through the Toolbox







No Integrated subsurface model

Underground Topics

Subsurface is unknown territory, equates to costs and delays; opportunities not appreciated



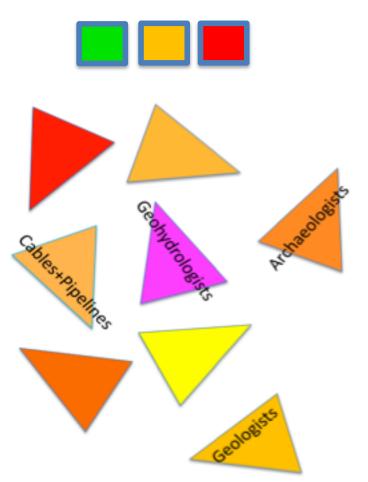
Subsurface specialists

Working in different depts, Lacking insight with respect to the world of urban planning



Urban Planning Topics

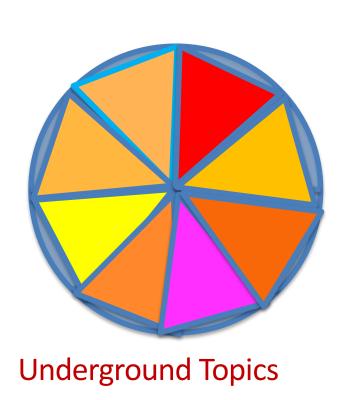
State of the art in urban geoscience research, sharing geoscience knowledge across the disciplines within the geoscience community, good practices, gaps, common models



Giving urban planners the opportunity to familiarize themselves with the subsurface

Underground Topics

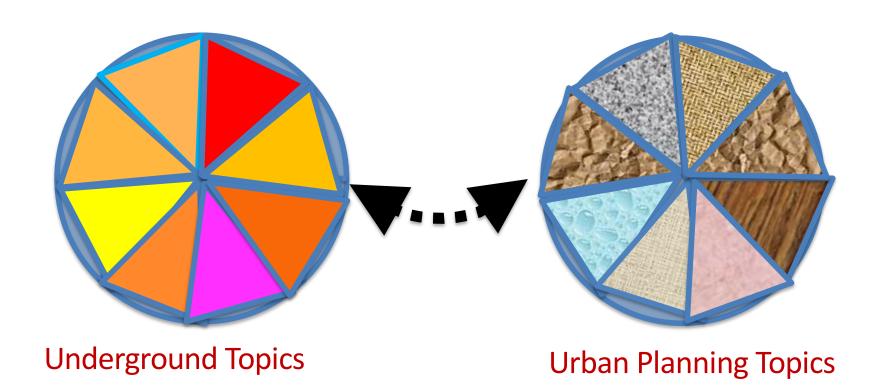
Giving insight in the world of urban planning





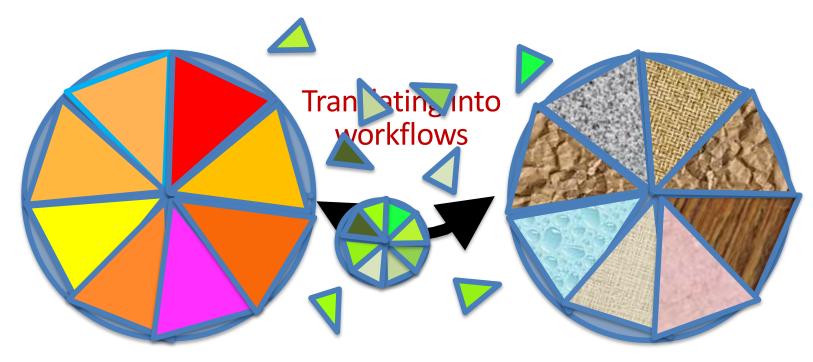
Urban Planning Topics





Subsurface specialists and Urban Planners Pro-actively working together

- Translation into workflows
- Bridging the gap between the communities



Underground Topics

Urban Planning Topics

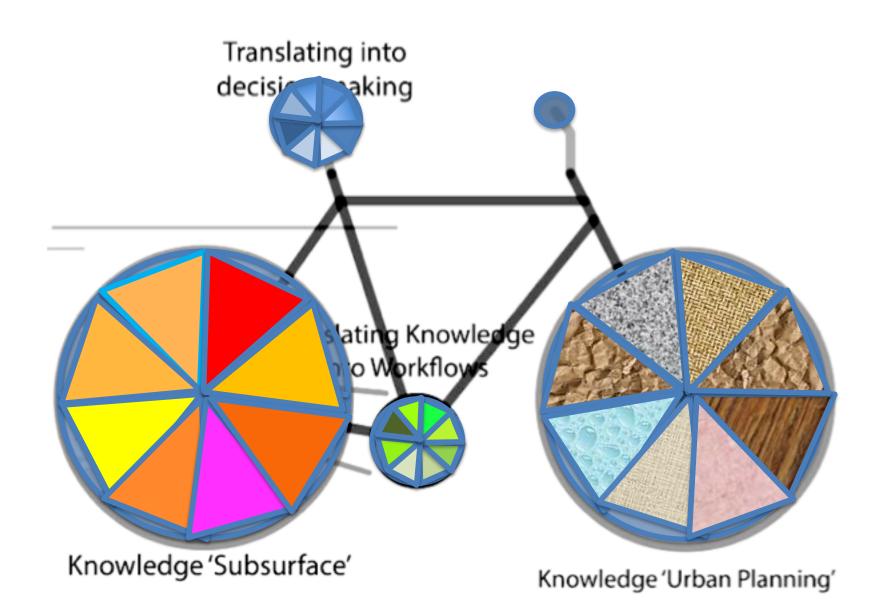
Inform and Empower policy- and decision makers

safeguarding subsurface ecosystem services, managing georisks, making a difference to our big

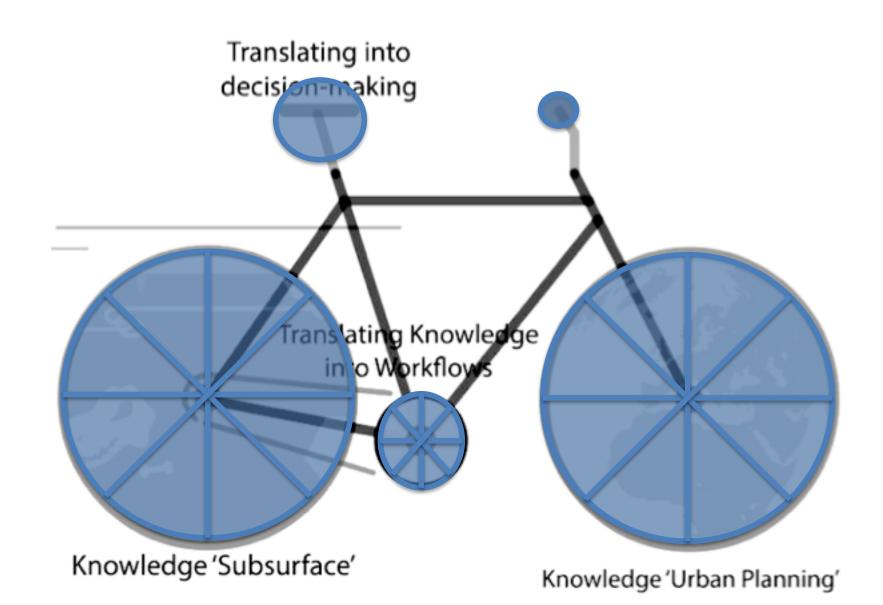
cities...in Europe and beyond Translating into making decisio Translating into vorkflows

Underground Topics

Urban Planning Topics



Navigating through the Toolbox



Our audience:

- 3D modeller Engineering company in Kiev
- Geohydrologist Geological Survey in Bangladesh
- Urban Planner from the City of Singapore
- Professor on urban planning University of Bogota
- City Economist Prague
- Resilient City Officer in Karachi
- Member of City Council in Rome
- •
- •

Giving the users a feel for what can be achieved in their own organisation

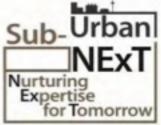
Helping them to address issues with a fraction of the costs



Sub-Urban Next:

- with our knowledge and our community we want to connect with other cities in Europe and beyond, with other cities around the world
- we want to work together with new partners around the world, learning from their experiences and good practices
- together filling the knowledge gaps, making the community grow
- together transfering these experiences to the NEXT generation









SUB-URBAN

CITY STUDIES

GOOD PRACTICE / BEST EFFOR

TOOLBOX

NEWS

VENTS PU

CONFERENCE

