



INDTECH2018

Innovative industries for smart growth

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Vienna, Austria

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PILLAR 1

Session 1.3

How to reduce pollution in cities using a stand-alone traffic system based on modular construction kits made of UHP Concrete
(Smart mobility in livable cities of the future)

Lutz Sparowitz

Email: lutz@sparowitz.at

**S+W Woerle Sparowitz Ingenieure, Graz
and Graz University of Technology**

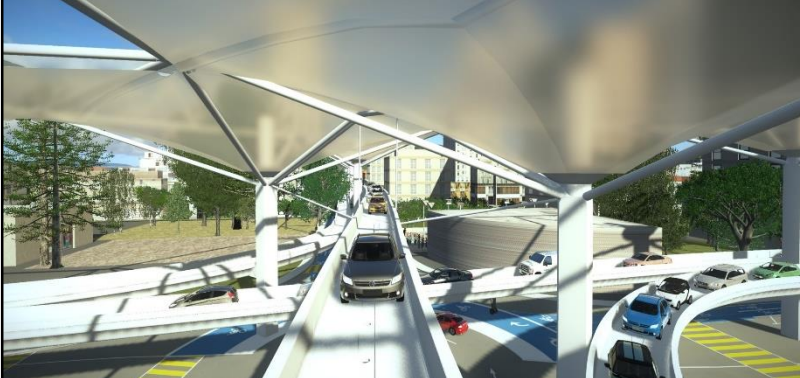
31 October 2018



Innovative Industries for Smart Growth need a well organized and unhindered mobility of all citizens

QuickMotion resolves the transport problem of large Smart Cities - generally, effective, holistic and sustainable

1 Construction of a high performance traffic net
in the form of QuickWay - elevated express highway network



2 Use of eco-friendly autonomous vehicles - preferably e-powered



The „QuickMotion“ Mobility System is a package of eco-friendly measures Improving the traffic performance and safety in cities many times over.

This fact avoids traffic jam and reduces pollution.

3 Application of an intelligent traffic control system
Navigation System (QNS) & Logistic System (QLS)



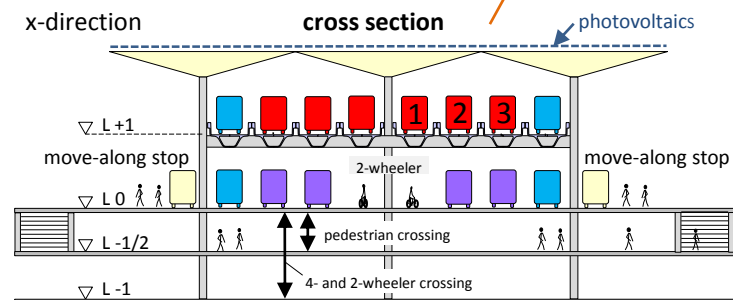
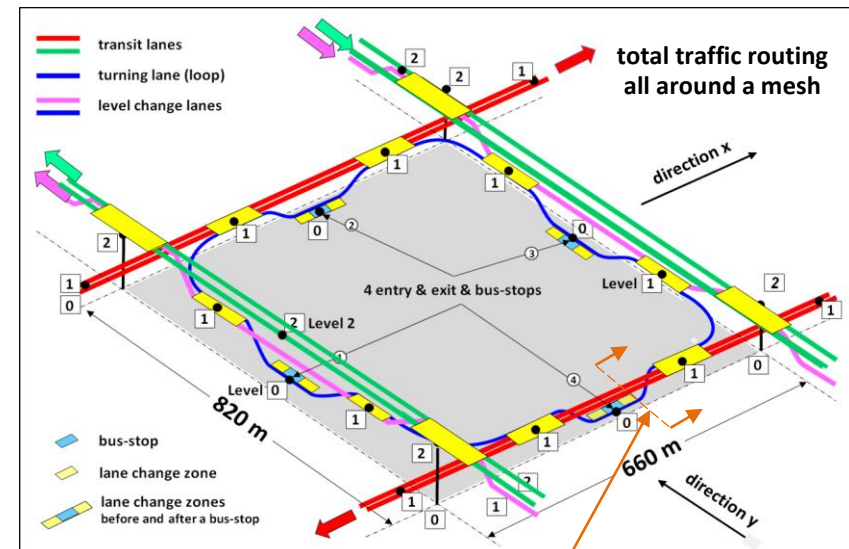
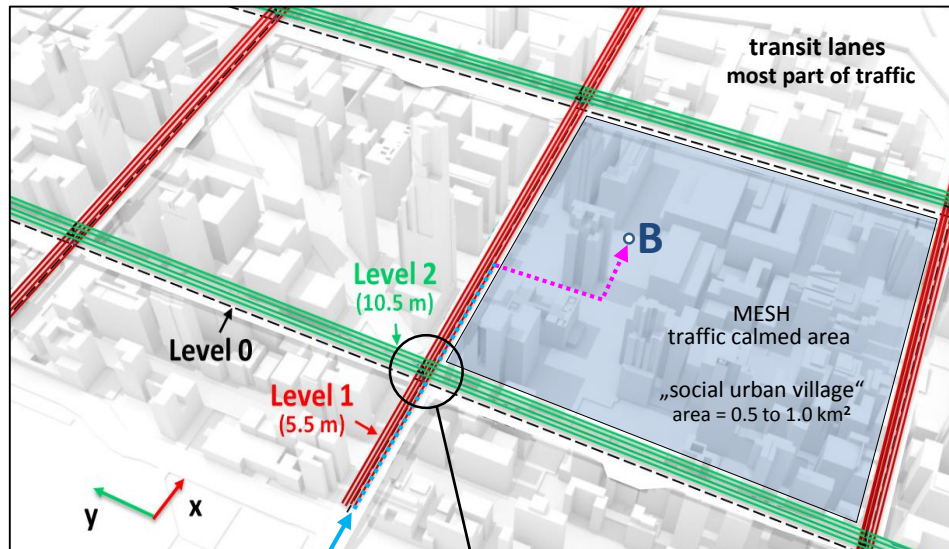
4 Generation of clean energy by means of translucent photovoltaics



For 2 Mio residents: The capacity equates to one large nuclear power plant

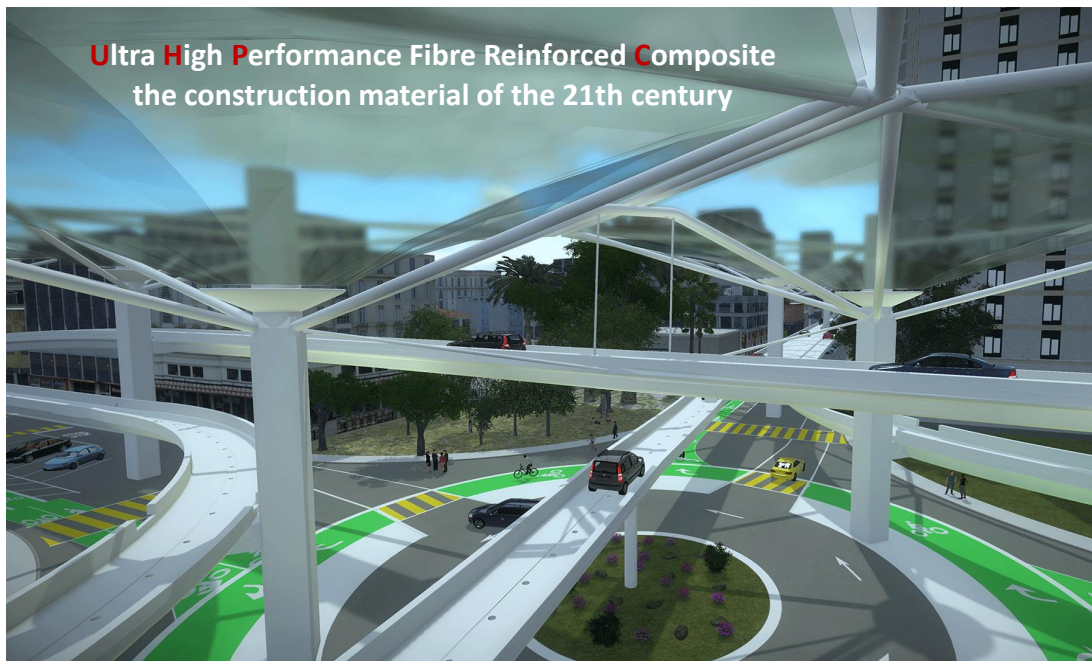


QUICKWAY - ELEVATED EXPRESS HIGHWAY NETWORK



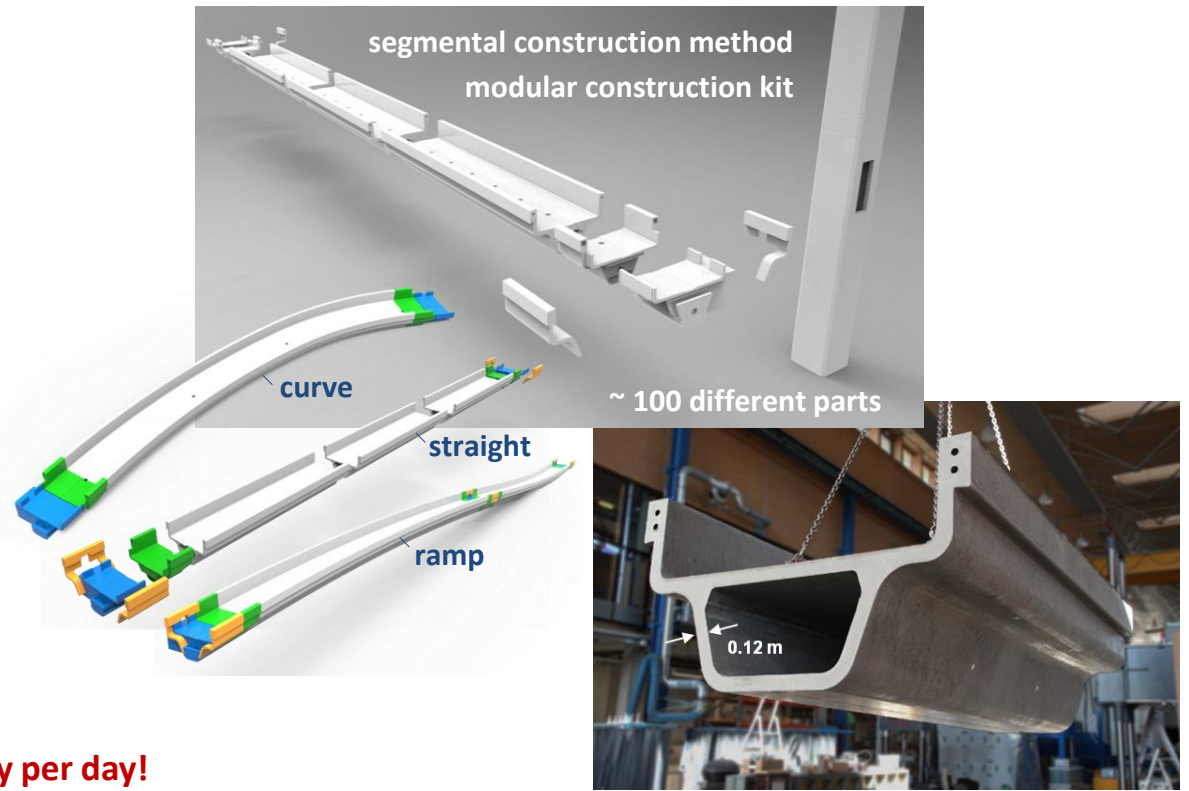
How to reduce pollution in cities using a stand-alone traffic system based on modular construction kits made of UHP Concrete

SUSTAINABLE UHPC INFRASTRUCTURE



service life: > 200 years

lifecycle costs ~50%



Innovative production and construction progress: ~1000 meter driveway per day!



TRAFFIC ROUTING INSIDE THE TRAFFIC CALMED MESHES



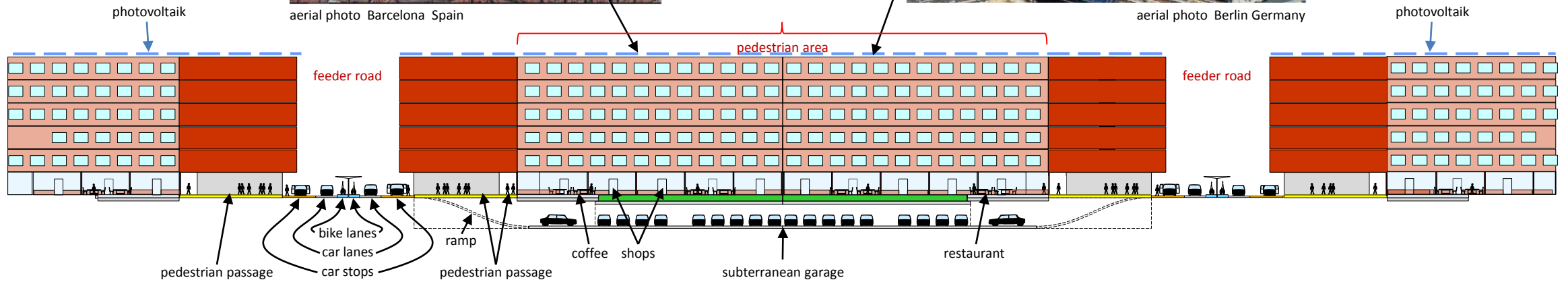
aerial photo Barcelona Spain

example:
atrium city blocks



aerial photo Berlin Germany

ATRIUM (quadrangle)







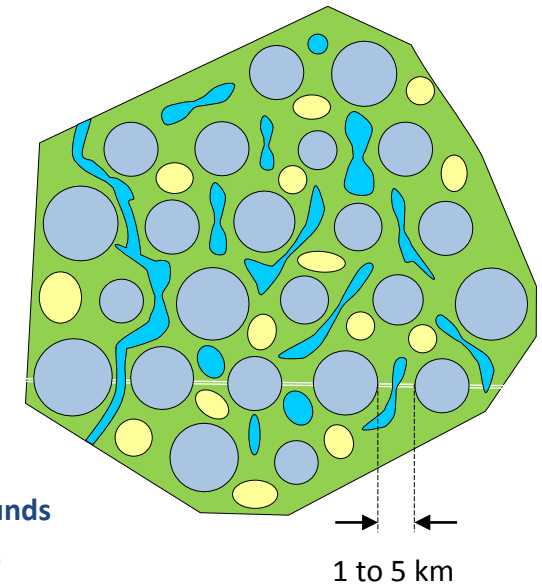
pedestrian traffic best possible separated from 4-wheeler- and 2-wheeler-traffic

LIVABLE CITY OF THE FUTURE = JOYFUL GREEN-LIFESTYLE CITY



FORMAL PRINCIPLE

-  largely undisturbed nature (meadows, forests, wildlife animals) and agricultural used areas
-  human established districts
-  water expanses (lakes, ponds, rivers)
-  recreational areas and sports grounds (hiking, jogging, swimming, tennis, golf, horse-sports, rugby, football, soccer etc.)



Enjoy QuickMotion. Thank you.

lutz@sparowitz.at