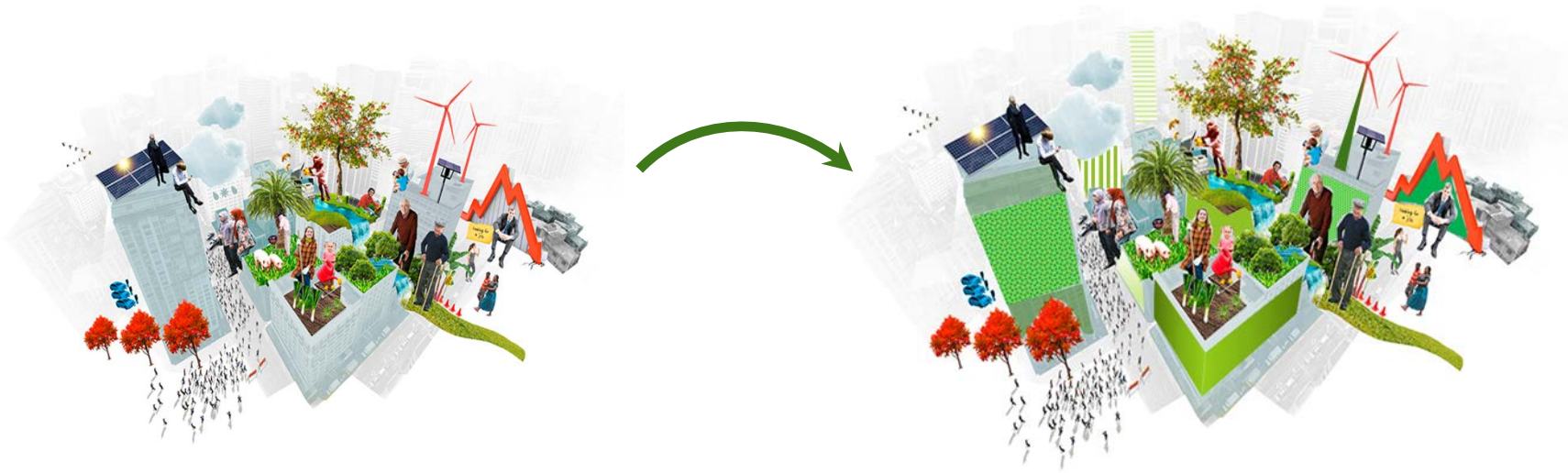
VERTICAL GREEN 2.0



Vertical greening for livable cities –
co-create innovation for the breakthrough of an old concept

Technische Universität Berlin, University of Natural Resources and Life Sciences Vienna, Green4Cities GmbH Wien,

Urbanistični Inštitut Republike Slovenije, National Taiwan University (NTU)

Sustainable Urbanisation Global Initiative (SUGI)
FOOD-WATER-ENERGY NEXUS

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Chances

- Vertical Green provides multiple ecosystem services: passive cooling, flood alleviation, bioenergy and food production, biodiversity, noise reduction etc.

- Vertical Green 2.0 could be a ecologically, economically and socially consistent part of the green infrastructure especially in dense building stock

Challenges

- Vertical Green = biological-technical system in an complex architectural-technical and social context

- *Ecological challenge*: sustainability, e.g. water, energy, nutrients, CO_2 balance, biodiversity

- *Economical challenge*: direct costs, indirect benefits, risks, maintenance

- *Social challenge:* ecosystem disservices, participation

Photo: Nehls

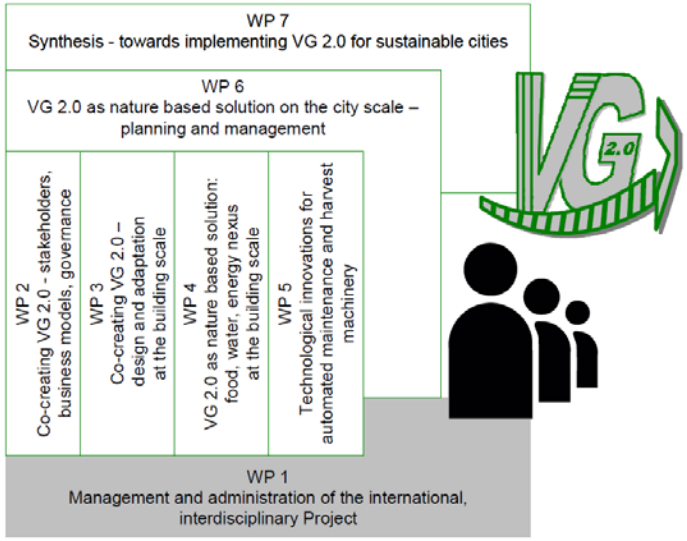
Aims: re-thinking, re-designing and re-managing VG as progressive food-water-energy nexus

1 Integrating VG at building and district scales: water, heat and energy management

2 Technological innovation for maintenance and harvesting machinery

3 Strategies for design, governance and operation of sustainable, secure, city-integrated greening and cultivation

Photos: Zluwa



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Contact us in London

Thomas Nehls
Technische Universitaet Berlin
(Technical University of Berlin)
thomas.nehls@tu-berlin.de

Irene Zluwa
Universität für Bodenkultur Wien
(University of Natural Resources and Life Sciences Vienna)
irene.zluwa@boku.ac.at

Matej Nikšič
Urbanistični inštitut Republike Slovenije
(Urban Planning Institute of the Republic of Slovenia)
matejn@uirs.si