

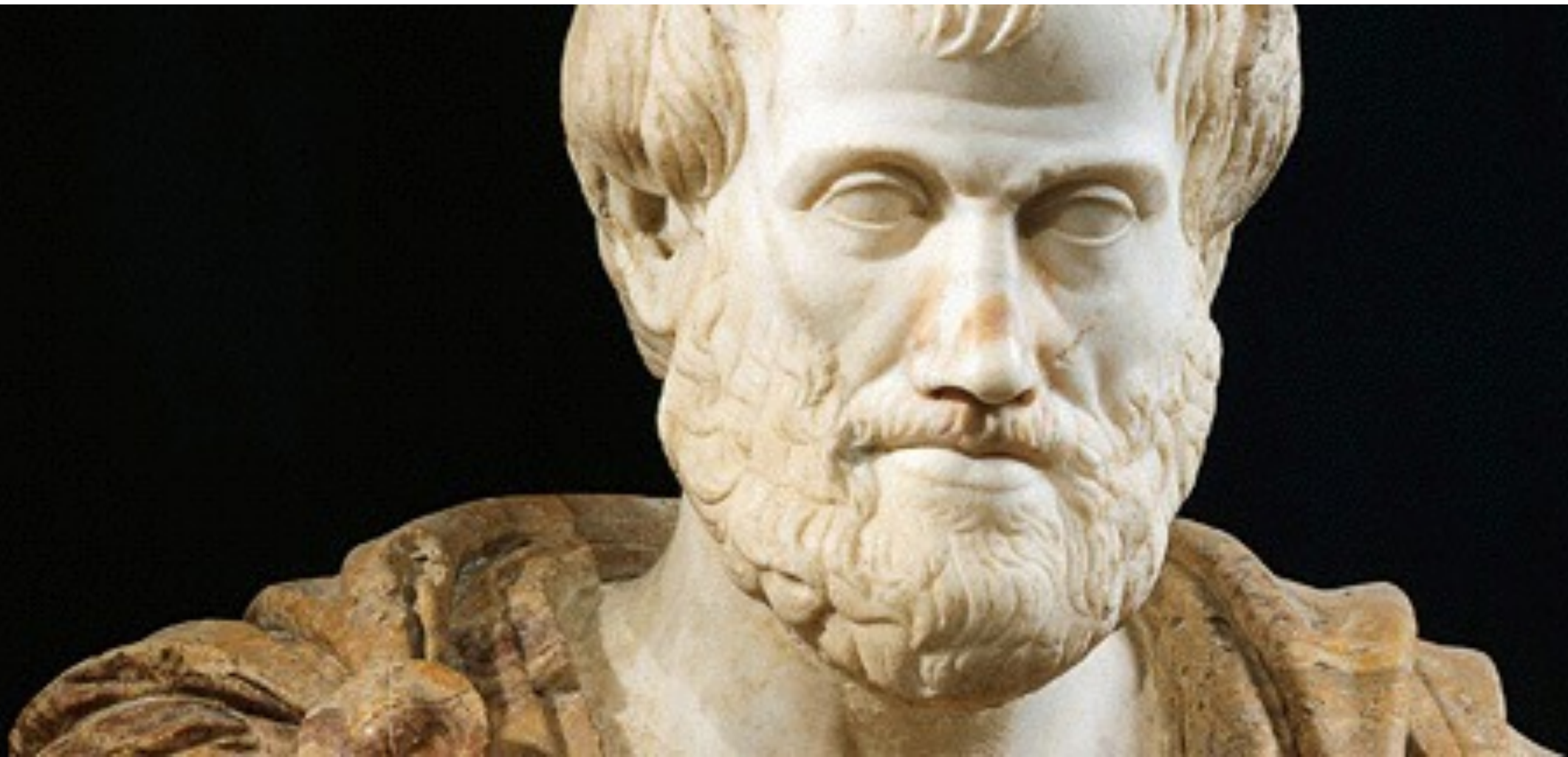
Digital whispers

What can technologies tell us about humans & cities?

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Director, Center for Ubiquitous Computing
University of Oulu

24 August 2016
Summer School on Smart Cities, Vienna, Austria

The “supreme good” for a *polis* is...



Self sufficiency

Self sufficiency

Man was created to live in polis.
Polis makes a citizen's life complete.



Humans do not make cities

Humans do not make cities

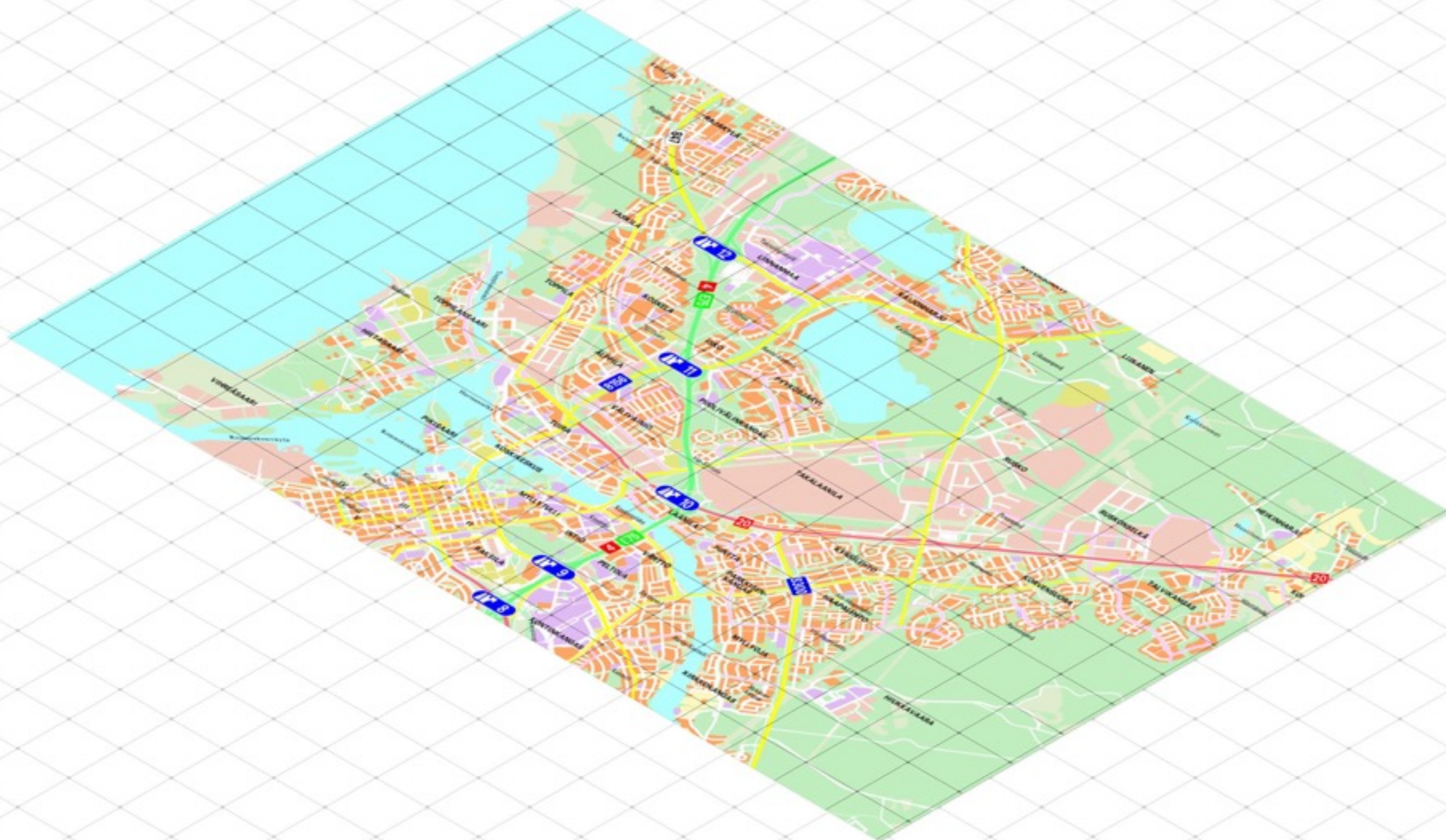


Cities make us human

Cities make us human



Study cities to understand humans





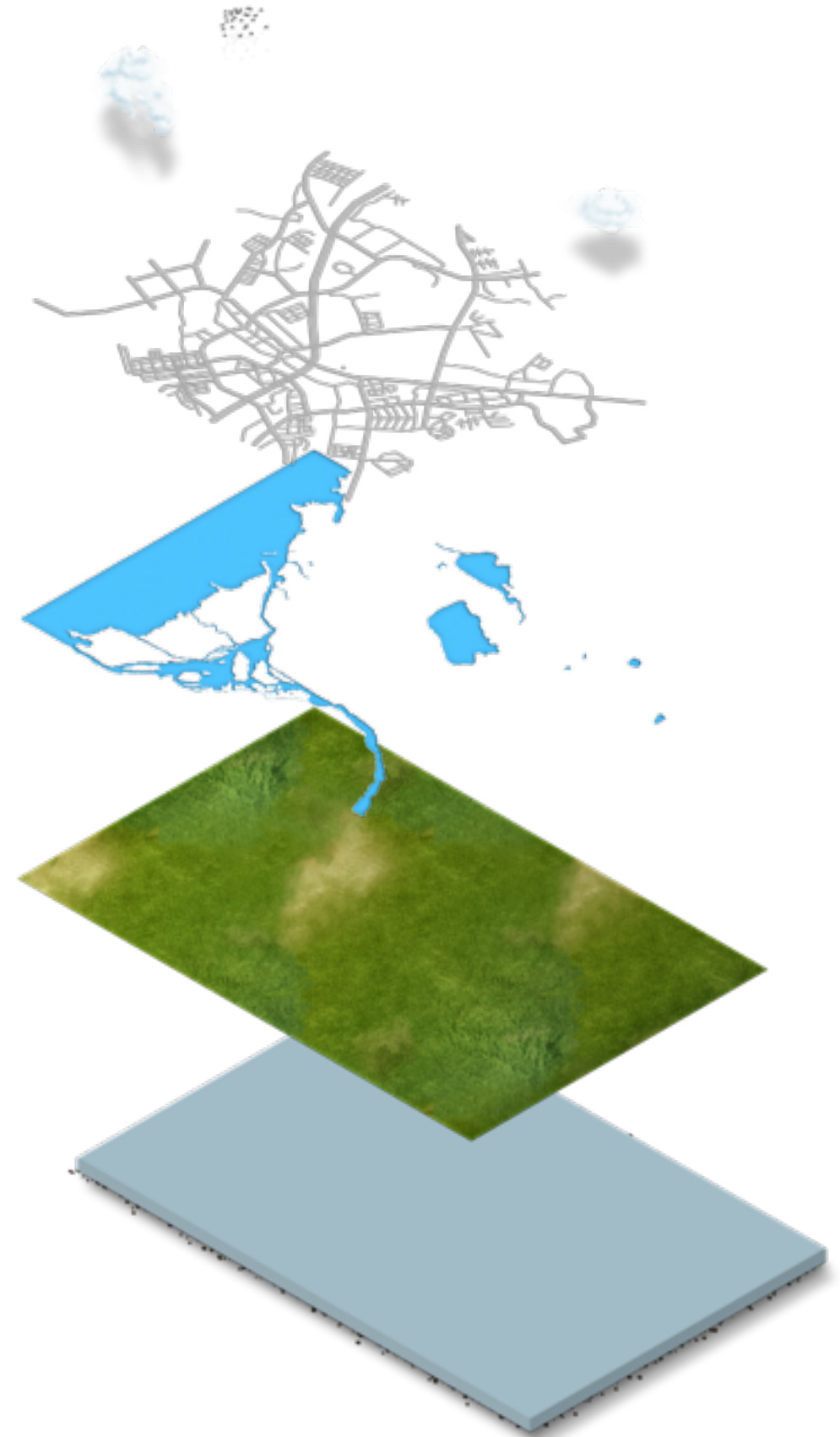
Climatology

Coniology

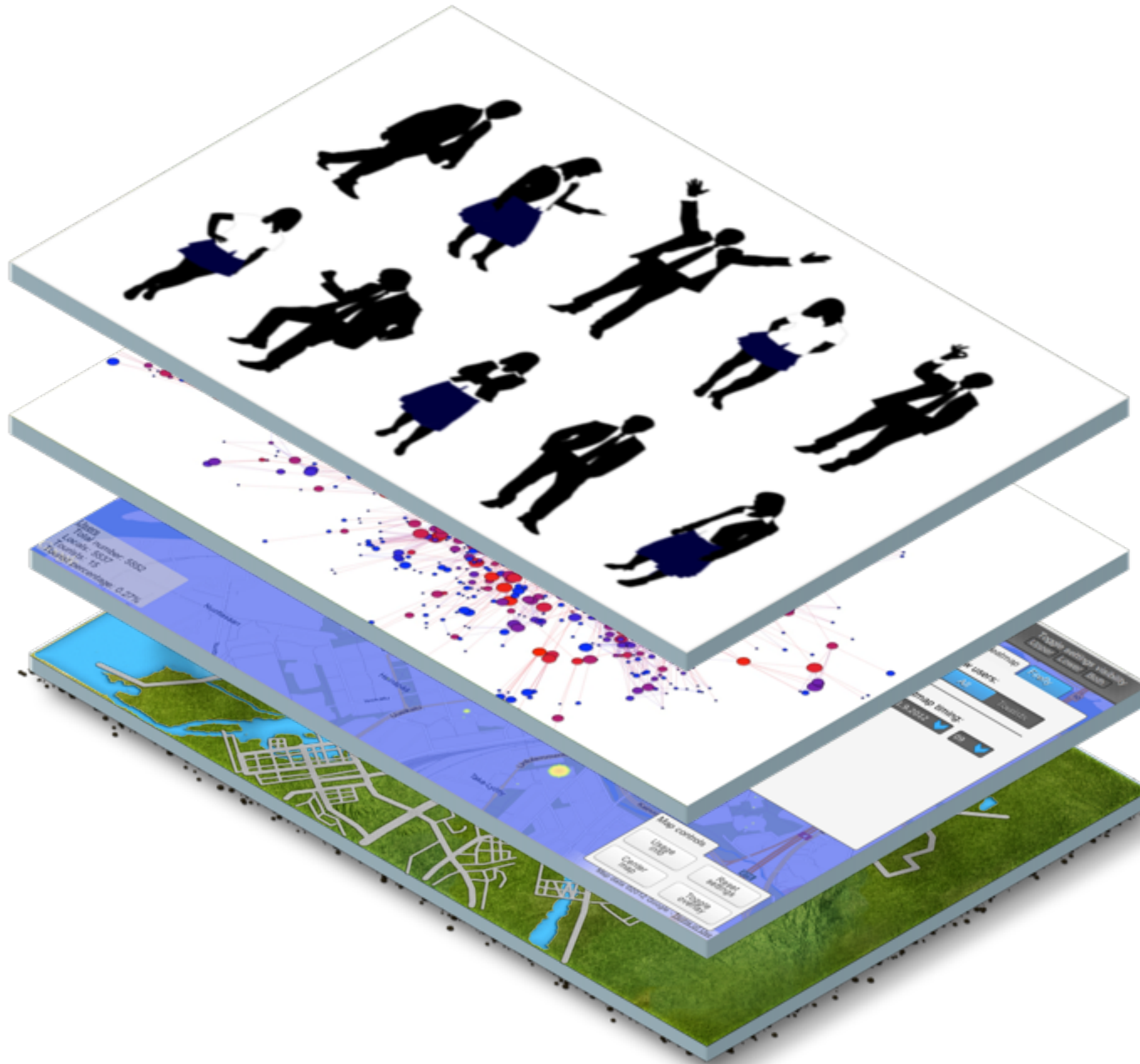
Hydrology

Ecology

Geology





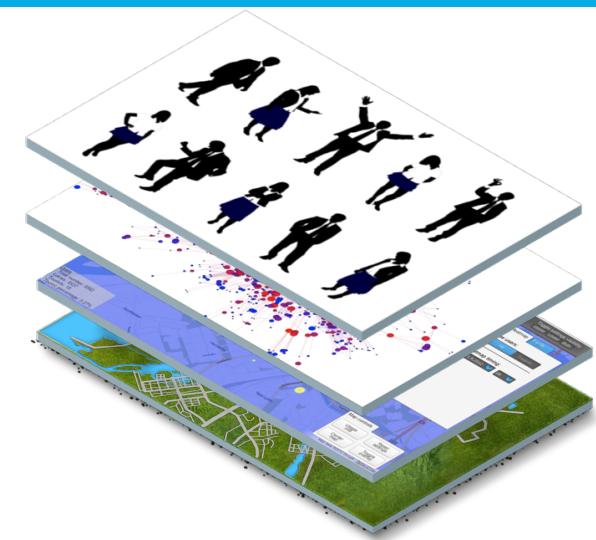


Behaviours

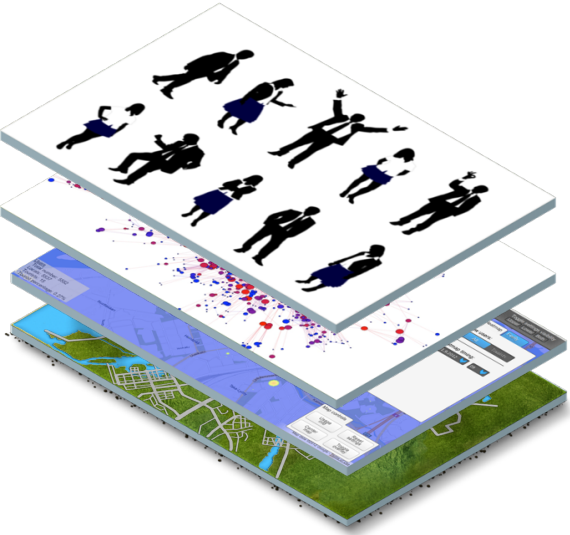
Socialise

Move

Environment



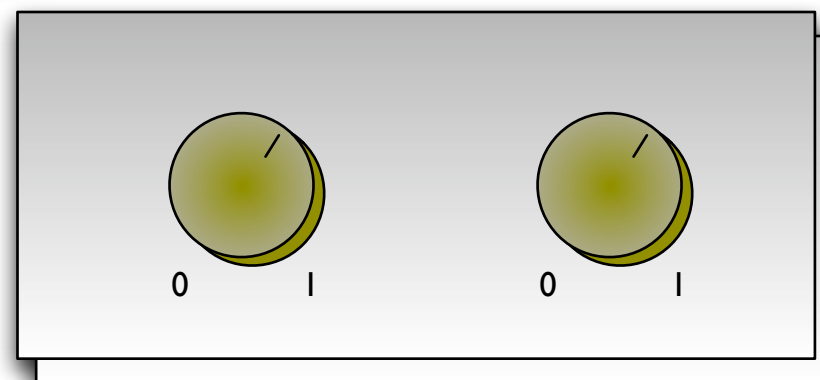
Move: universality



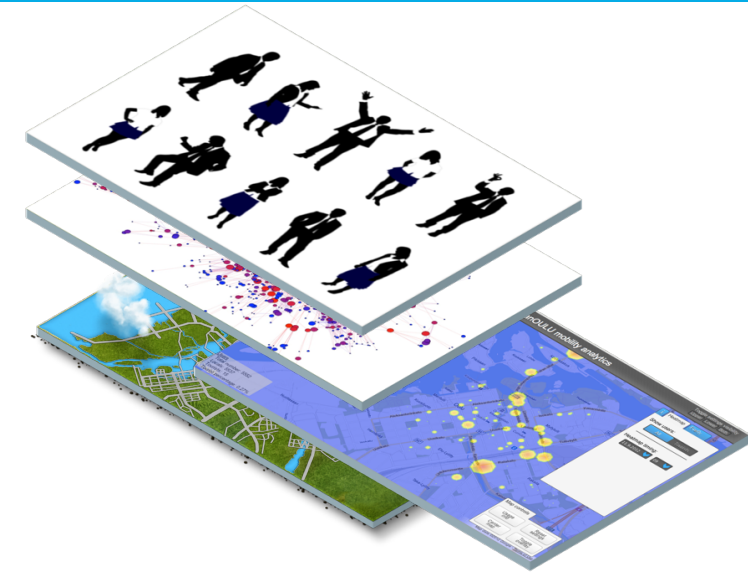
Pedestrians
Tourists

Daily/time

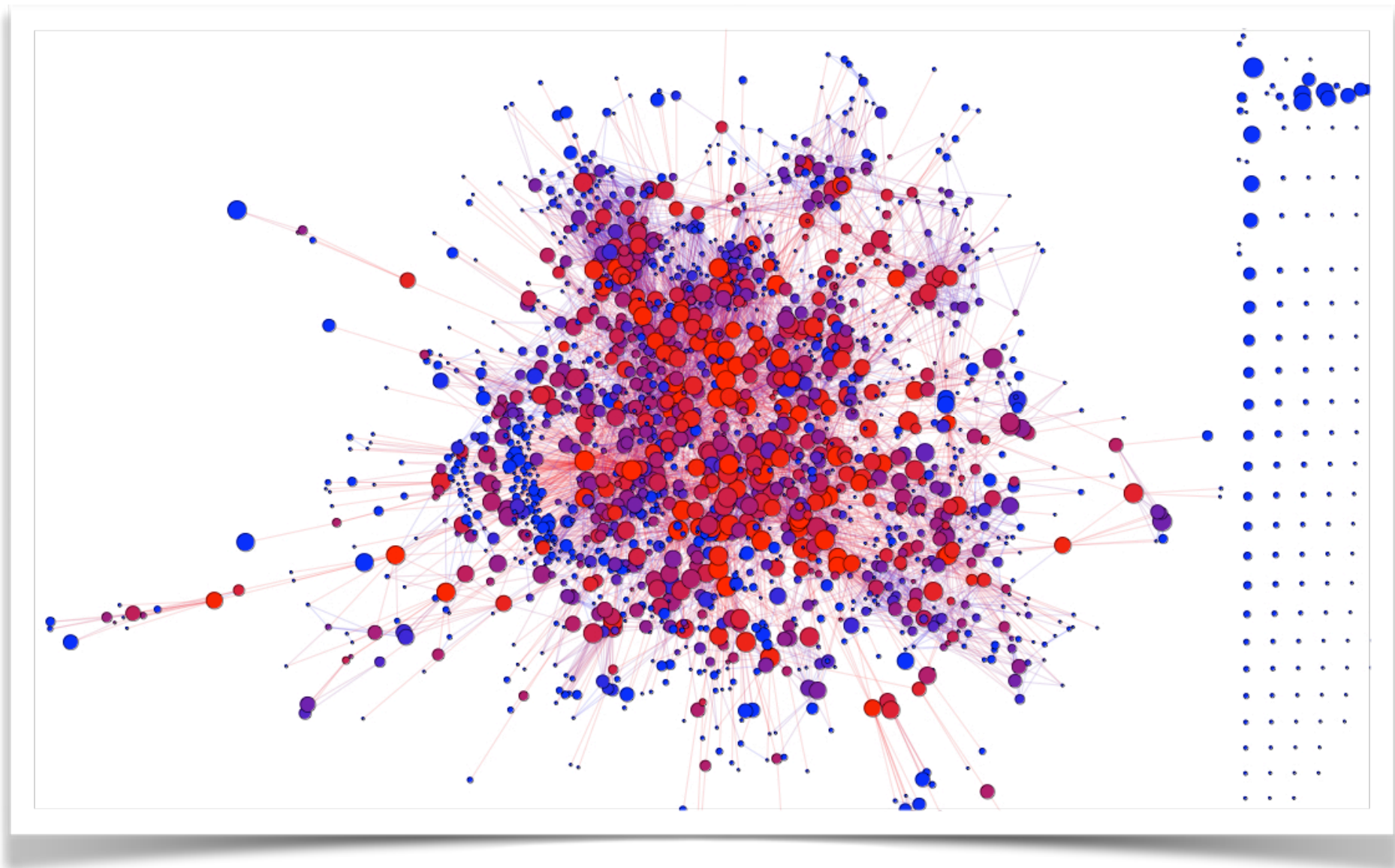
Transport needs
Effect of shops



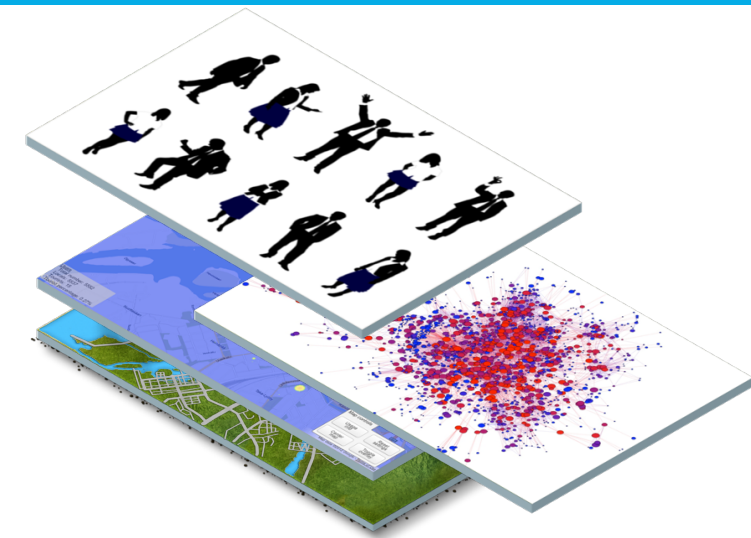
Socialise: small world



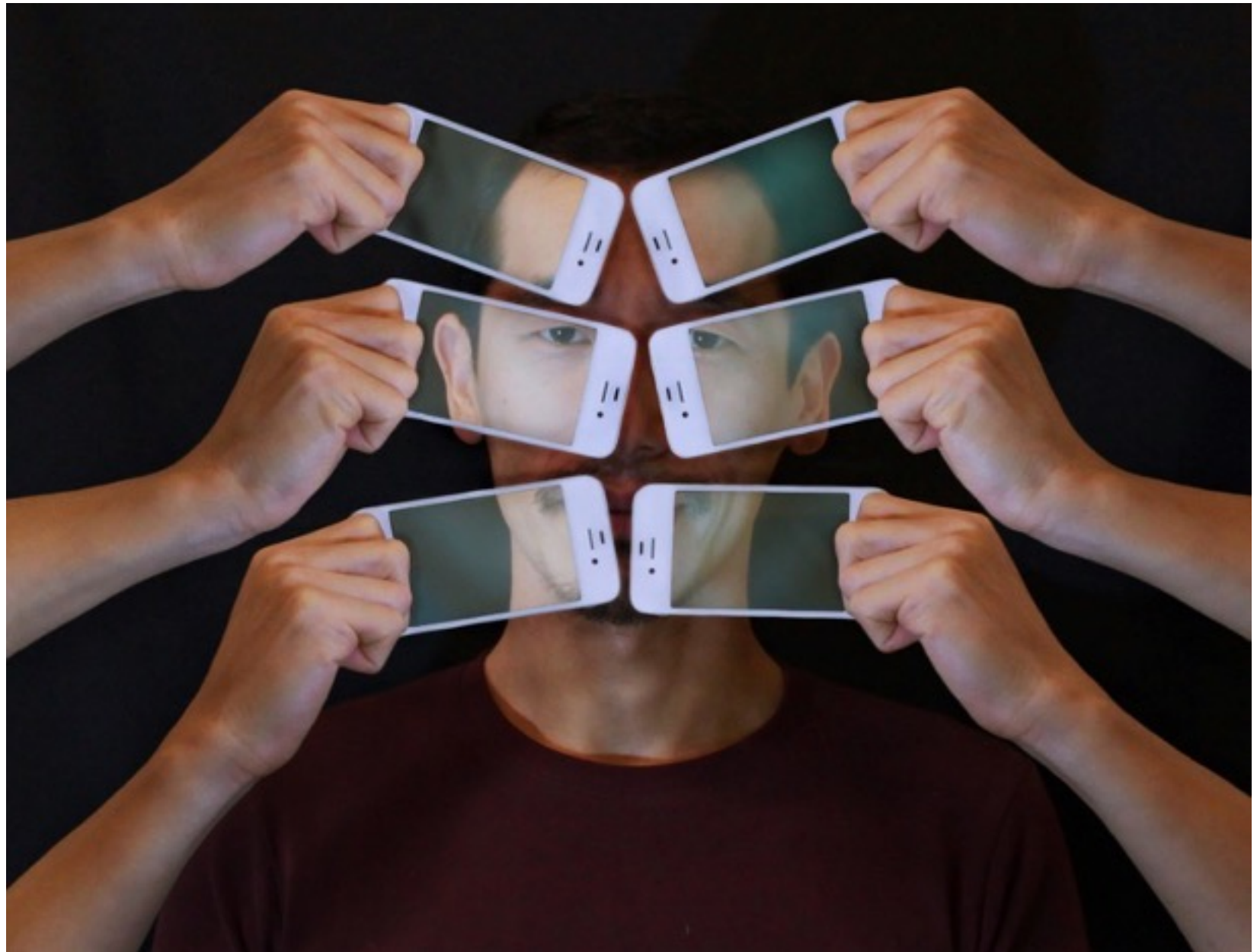
Encounters
Social isolation
Quality of life
Key times
Key locations

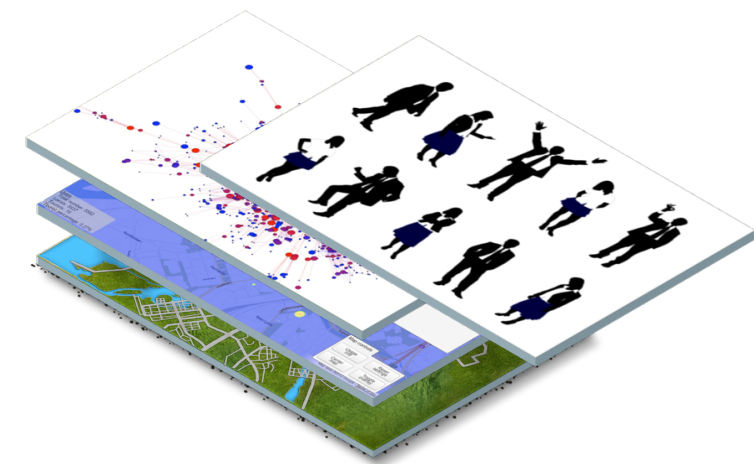


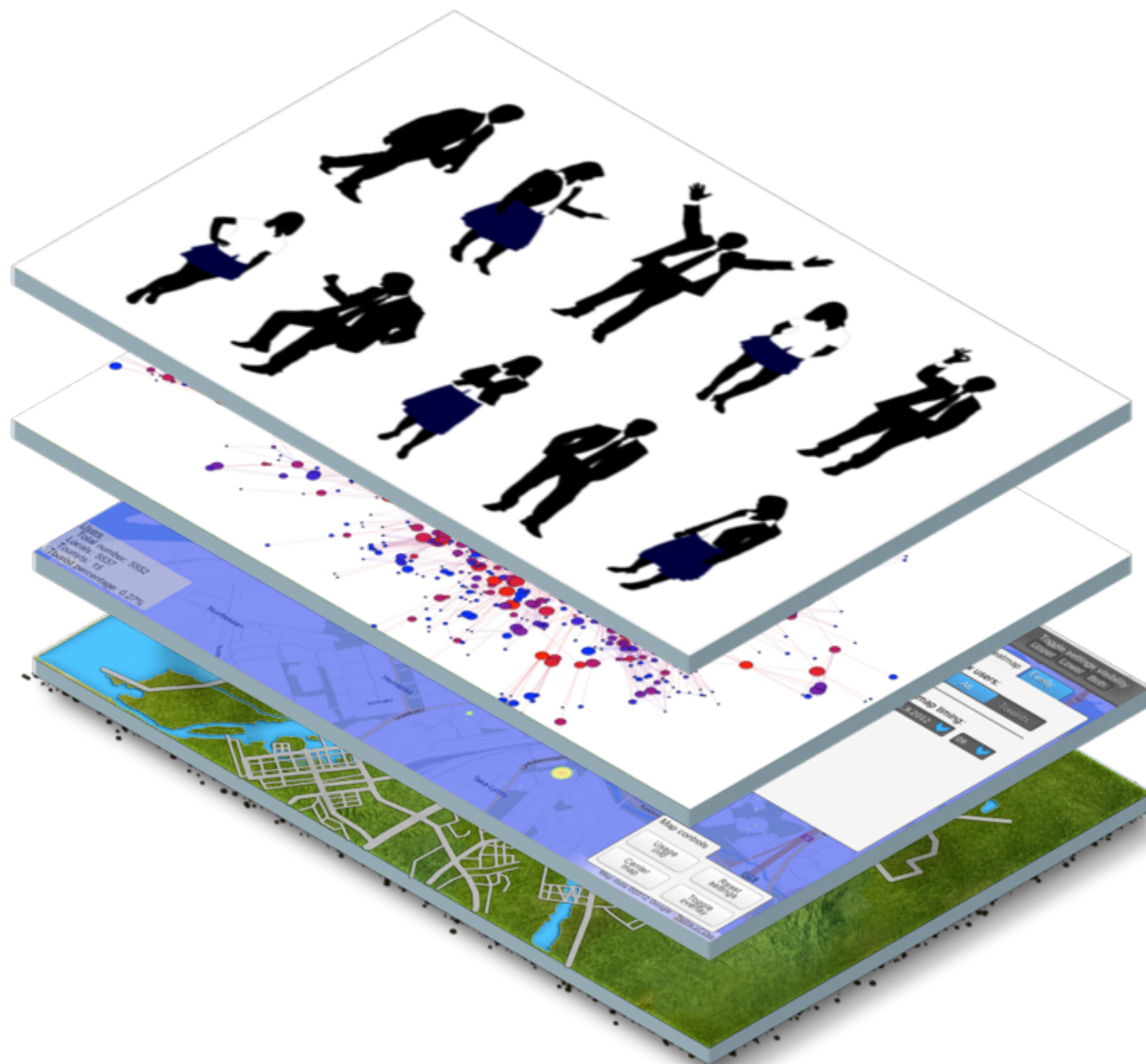
Behaviours: the final frontier



Depression
Schizophrenia
Drunk
Pain
Happiness
Leadership
Introversion







Behaviours

Socialise

Move

Environment

→ 21st century

→ 20th century

A grand challenge for smart cities



Capture, Understand, Cultivate behaviours

End of Part I