Rotterdam Alexander, The Breathing City

City of the future 2050

Raw materials
Fertilizer
Fresh water
Emissions
Biodiversity
Sea level
Temperature

1900   1950   2000   2050   2100
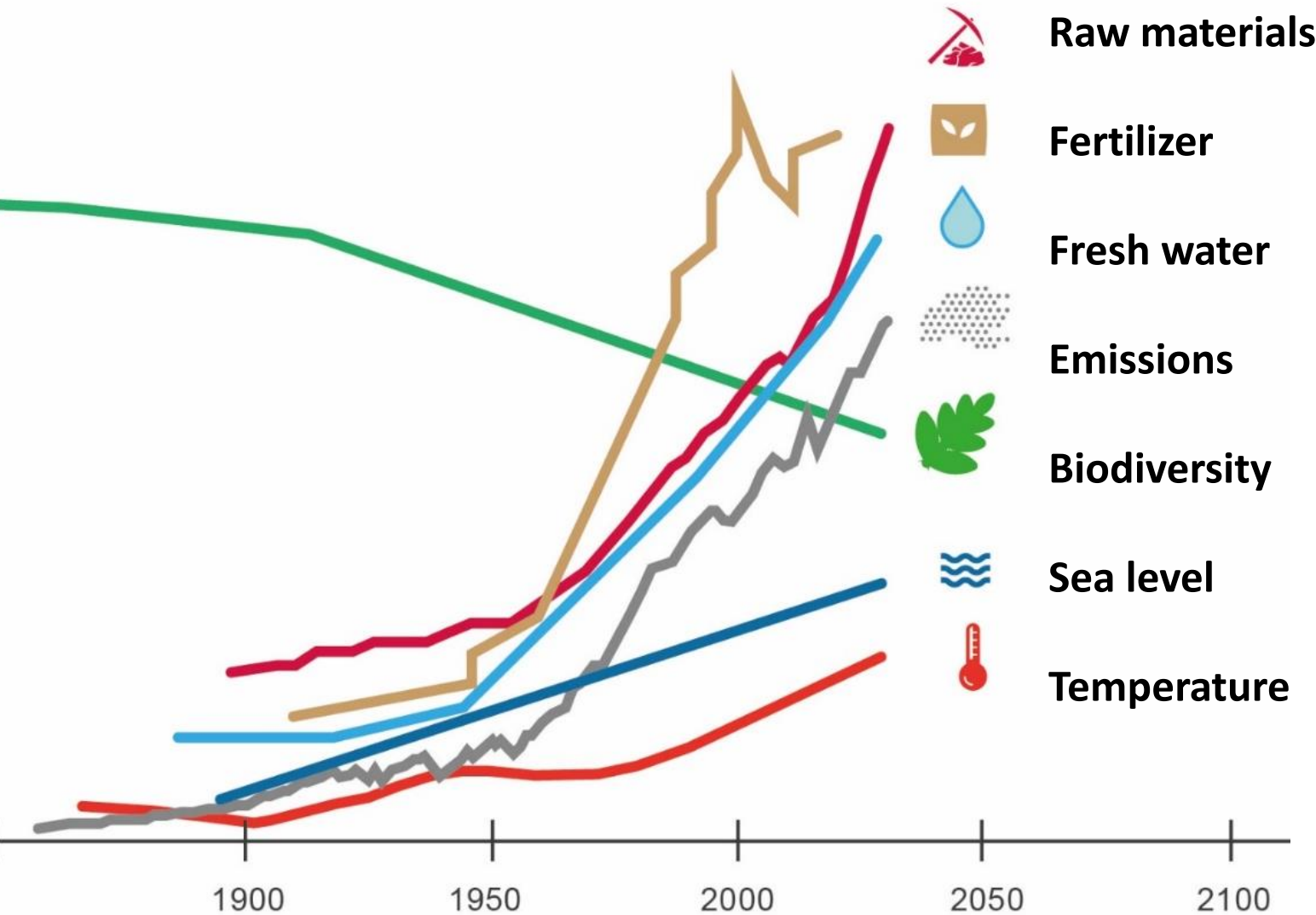
Main challenges 2050:

- **Loss of biodiversity**
- **Climate change**
- **Depletion of raw materials**
- **Pollution**

VenhoevenCS
architecture+urbanism

BVR ADVISEURS RUIMTELIJKE ONTWIKKELING

SWECO

WYNE.
Strategy & Innovation

Tijs van den Boomen

Rotterdam Alexander 2018

City of the future 2050

household
住户

Neighborhood life
社区

Station biotope
城镇交通中心

Metropolitan landscape
大都会区域
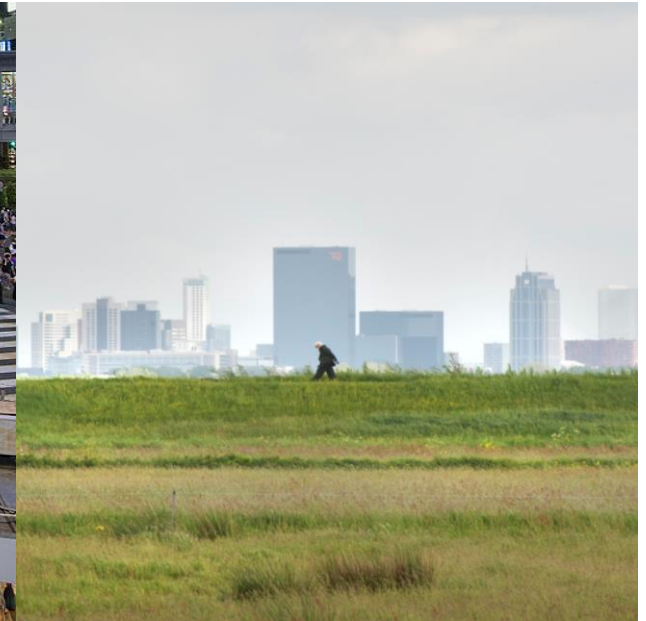
Organize circularity at the right scale level, reinforce local economy

Rotterdam Alexander 2018
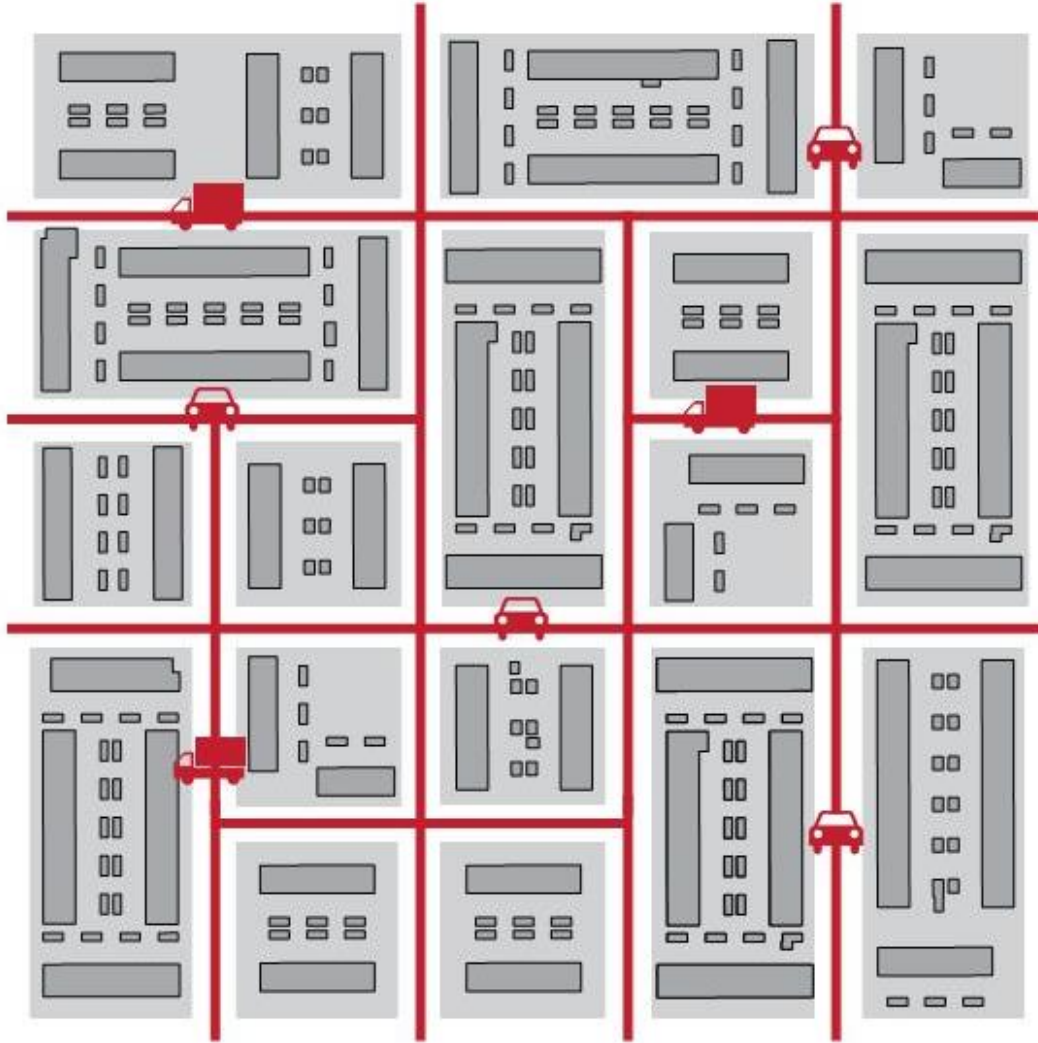
City of the future 2050

For every theme:

At every scale level:

Energy, Mobility, Economy,
Nature, Water, Waste, Food,
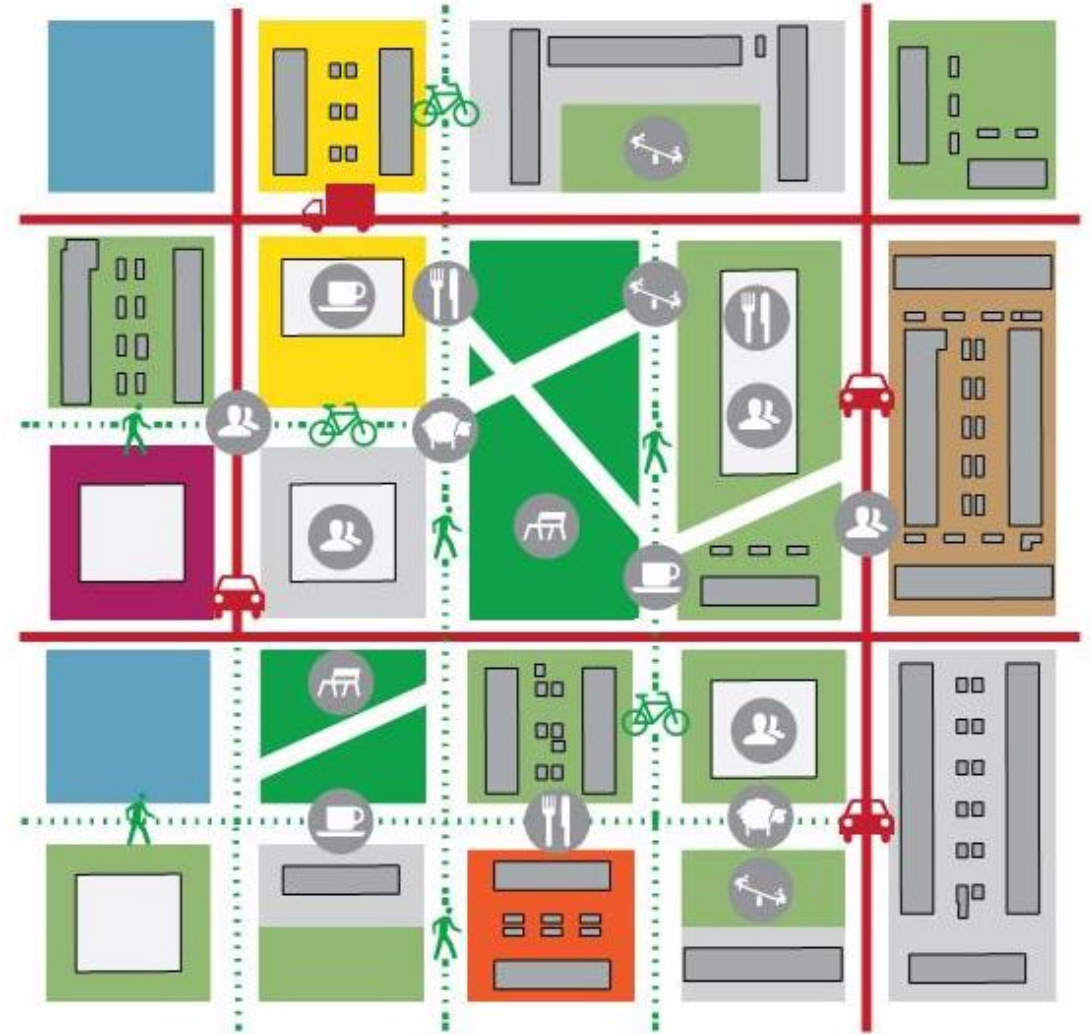**Culture, Education, Care,**
Public Services

Household
Neighborhood life
Station biotope
Metropolitan landscape

Proximity label stimulates self organization, reinforces local economy

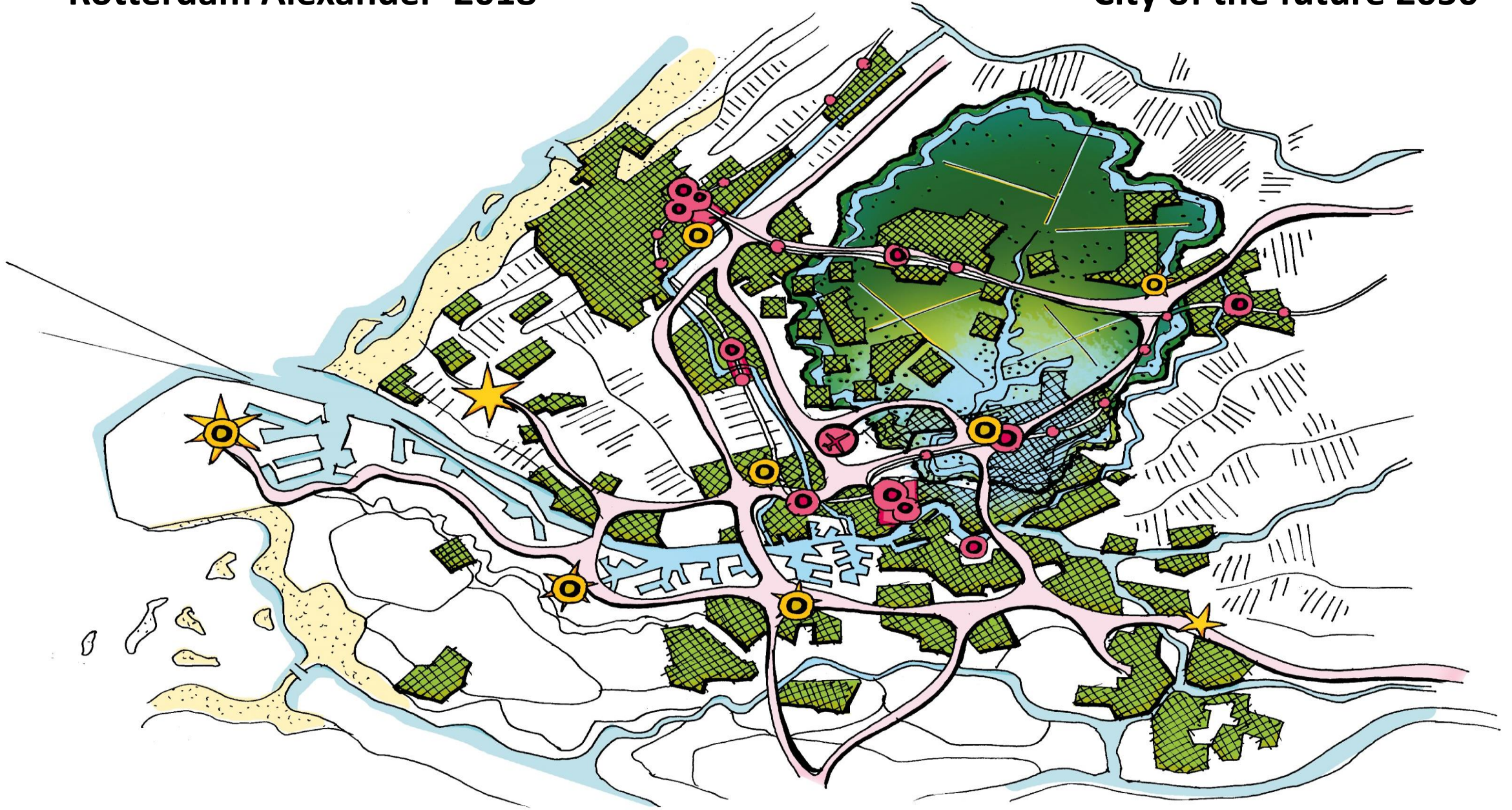**Rotterdam Alexander 2018**

City of the future 2050

Remove two of each three streets to improve neighborhood life

Rotterdam Alexander 2018

City of the future 2050

Develop metropolitan areas as integral part of natural ecosystems

Develop multimodal hubs, remove streets, improve all ecosystems