Urban design and new nomads Towards a new balance between cities and territory

Presentation content:

1. Definition of urban design and its evolution during 19th-20th century

2. Main topics for urban design in the 21st century:

- migration and urbanization,
- energy landscape and relation between city and territory

3. New tendencies

In which city I would like to live?

Write down 3 things that you think are important for a livable city?



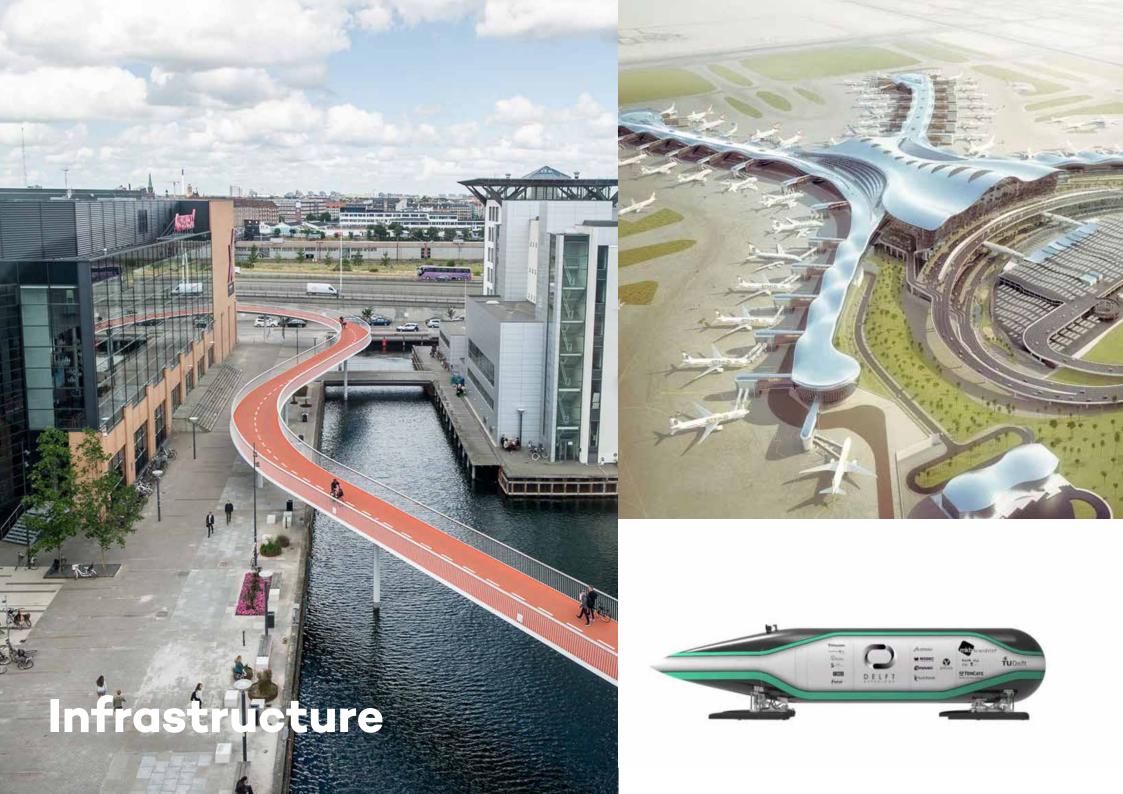


SCORE A Project by BIG TOPOTEK 1 SUPERFLEX

Public space

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ARVINIUS + ORFEUS



What is urban design?

'Creating the theatre of public life'

Jerry Spencer

'The process of moulding the form of the city through time' Peter Webber

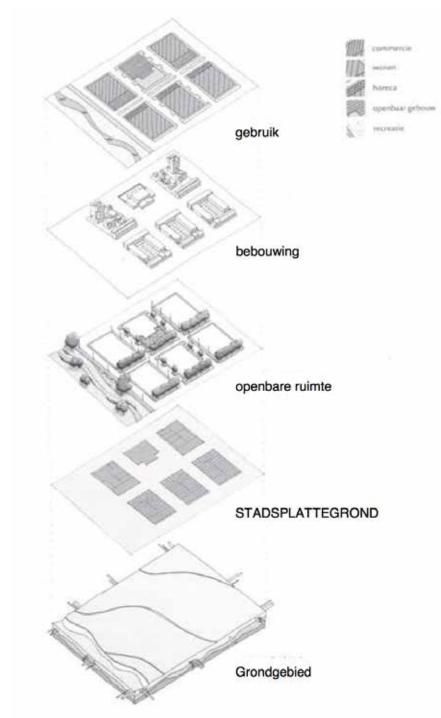
'It is the collaborative and multi-disciplinary process of shaping the physical setting for life in cities, towns and villages; the art of making places; design in an urban context. Urban design involves the design of buildings, groups of buildings, spaces and landscapes, and the establishment of frameworks and processes that facilitate successful

> **development'** Spiro Kostof_Tha city shaped

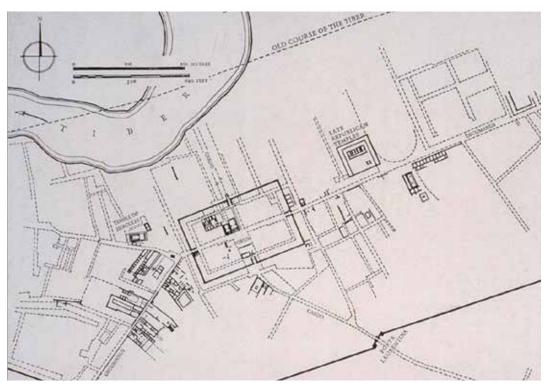
'The vision of the Netherlands of tomorrow oscillated

between common sense and science fiction'

Kees Christiaanse_Dutch New Worlds





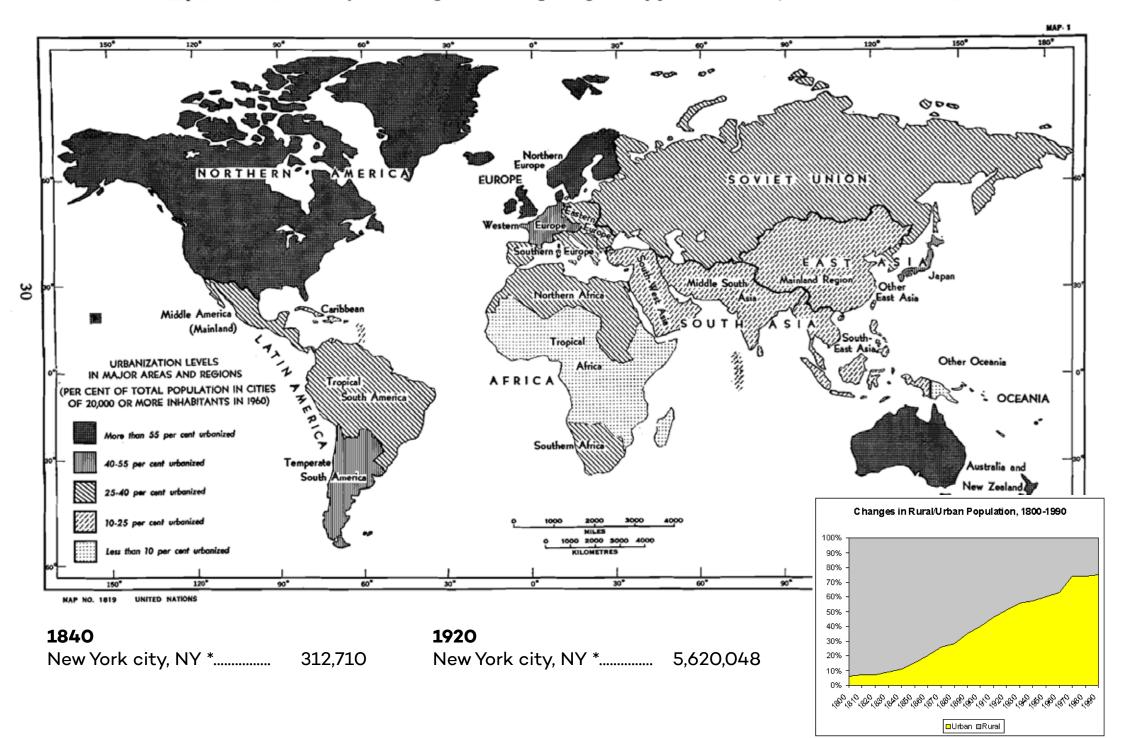


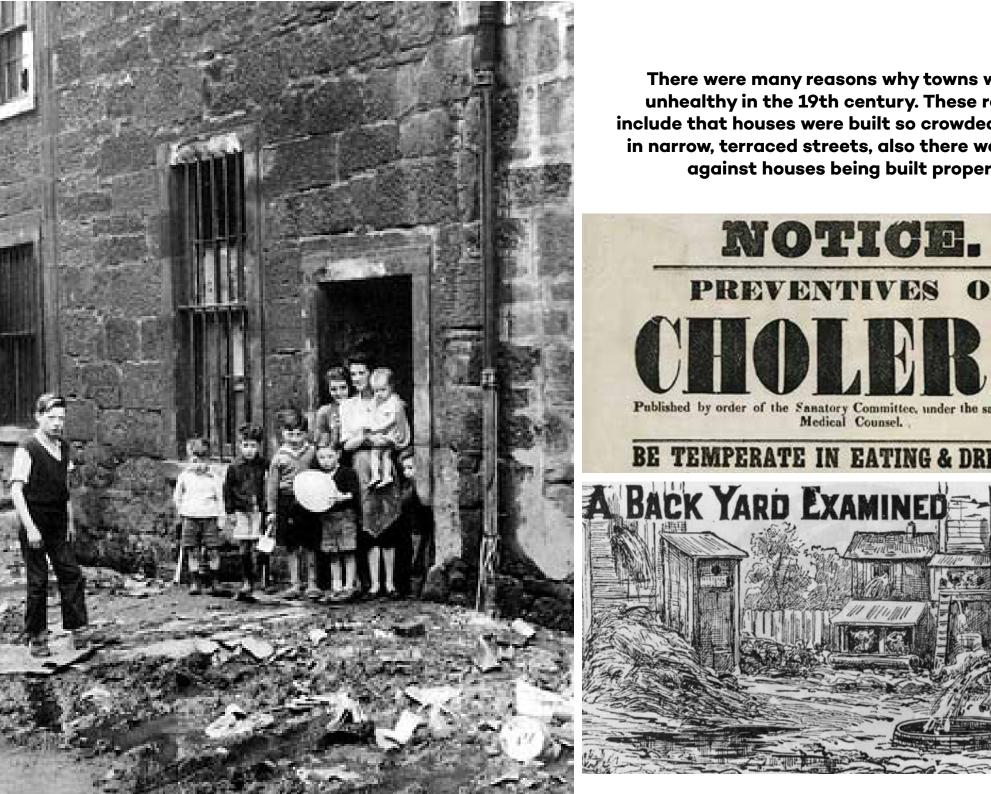


300 bC Ostia antica, Rome

1200 Padova

Urban design starts in 19th-20th century with the **Sanitary Reform movement** during the **industrial revolution**





There were many reasons why towns were so unhealthy in the 19th century. These reasons include that houses were built so crowded together in narrow, terraced streets, also there was no law against houses being built properly.

NOTICE.

PREVENTIVES OF

CHOLERAS

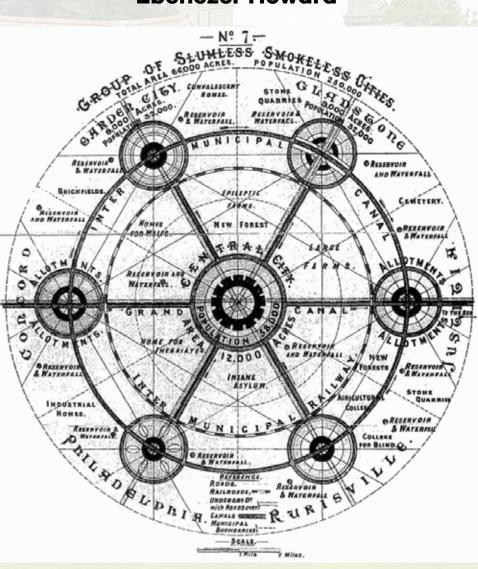
Published by order of the Sanatory Committee, under the sanction of the Medical Counsel.

BE TEMPERATE IN EATING & DRINKING!



The garden city movement

The English founder of the garden city movement, Utopian city in which people live harmoniously together with nature Ebenezer Howard







Men Lin

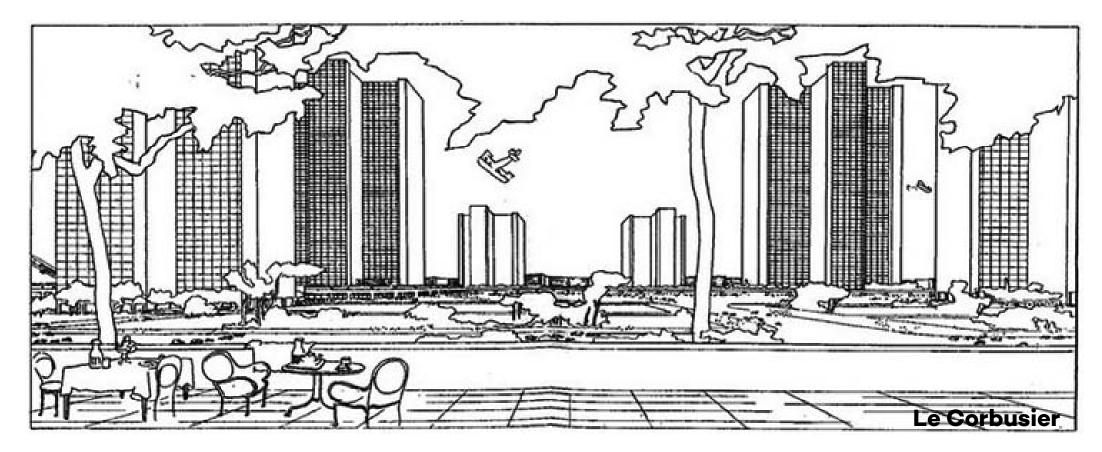
Haussmann's rennovation Paris

Napoleon III instructed Haussmann to bring air and light to the center of the city, to unify the different neighborhoods with boulevards, and to make the city more beautiful.

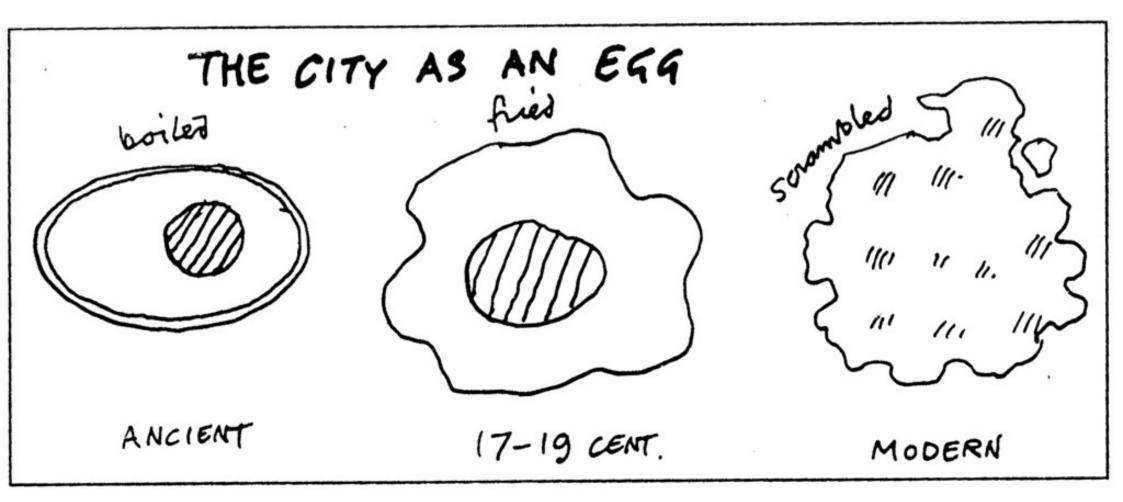
1853-1870

Camille Pissarro (1898)

The **Modern movement** 2nd transition in Urban design, 20th century Amsterdam









The general motors pavilion and the **car invention** 3rd transition in Urban design Norman Geddes 1939 New York

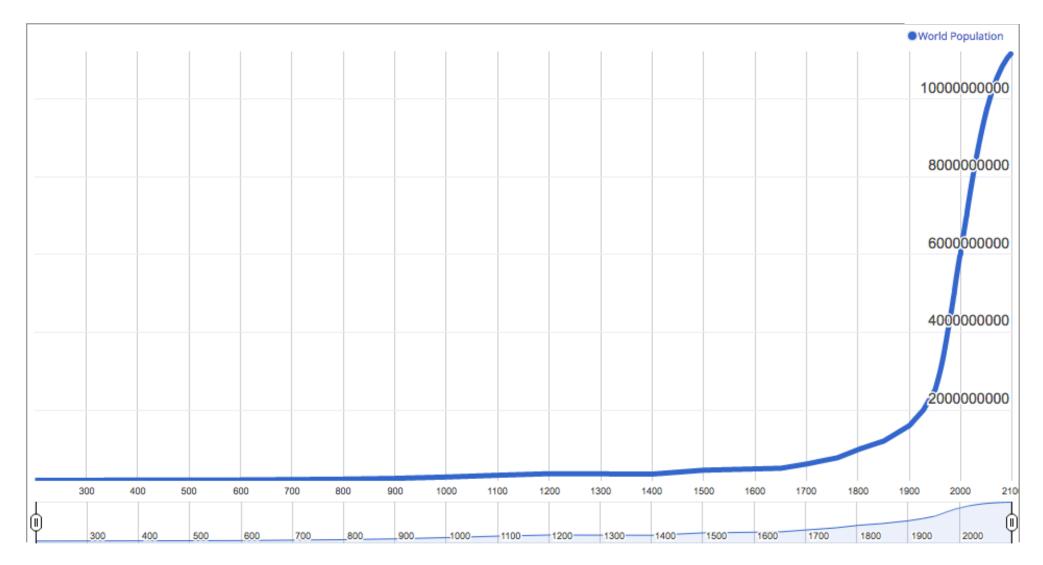




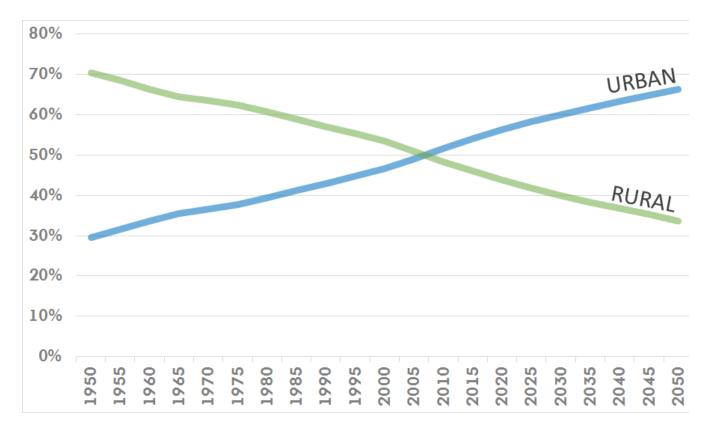
American urban sprawl and suburbanization

World Population: Past, Present, and Future

7,515,284,153 inh



HOMO-URBANUS: Nomads towards the city



75% urban population

"When cities don't plan for increases in population it drives up house and land prices, creating rich (ghettos) and poor ghettos. You get a very unequal society and that inequality is manifested where people live, in our neighbourhoods, and it means there can be less capacity for empathy and less development for all society"

> Jack Finegan Urban Programme Specialist UN-Habitat

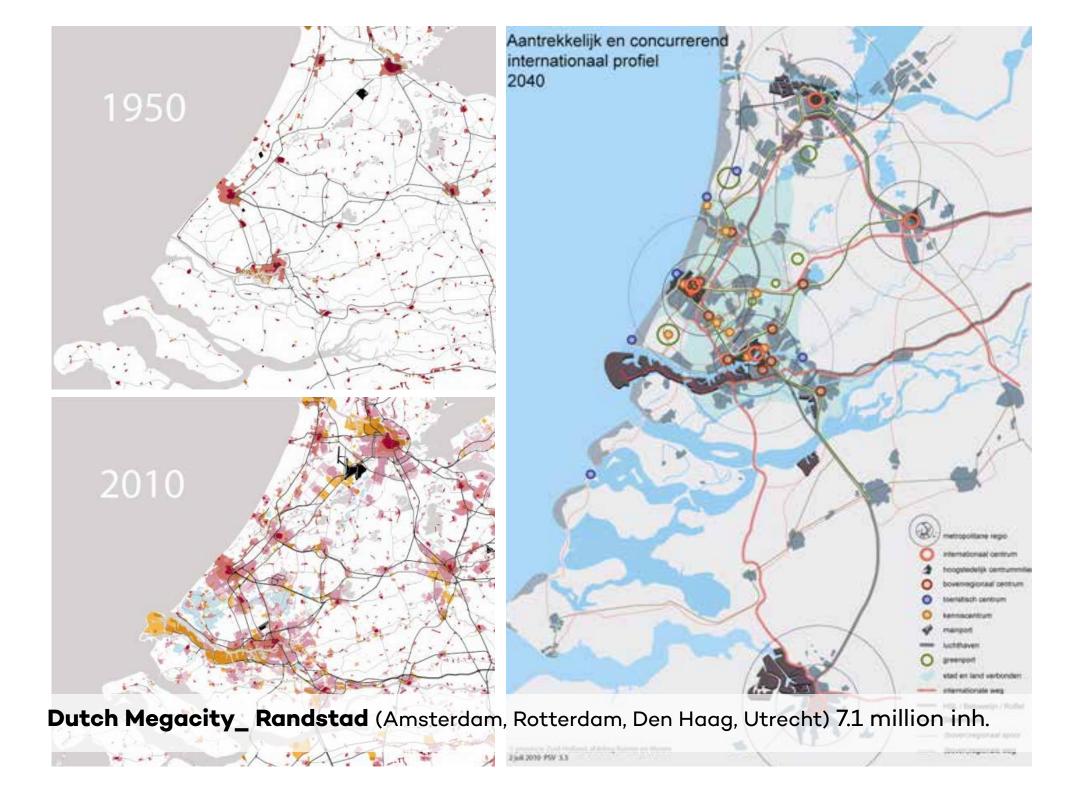
Metropolis/Megacities with more than 10.000.000 inhabitants 2016_n. 29 1990_n. 9

Tokyo metropolitan area 37.835.000 inh.

Amsterdam 848.861 inh.

2014_203 thousand immigrants, 146 thousand emigrants

Last year, 203 thousand individuals registered as immigrants in one of the Dutch municipalities, an increase by nearly 20 thousand relative to 2014 due to the asylum seekers from Syria (20.000), Ethiopia, Eritrea. It was estimated 40-50% of emigrants were ethnic non-Dutch.

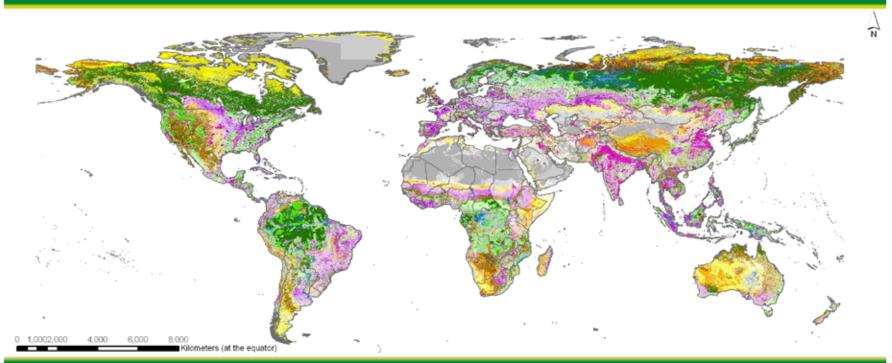


Towards a new balance between cities and territory



Land use systems of the world

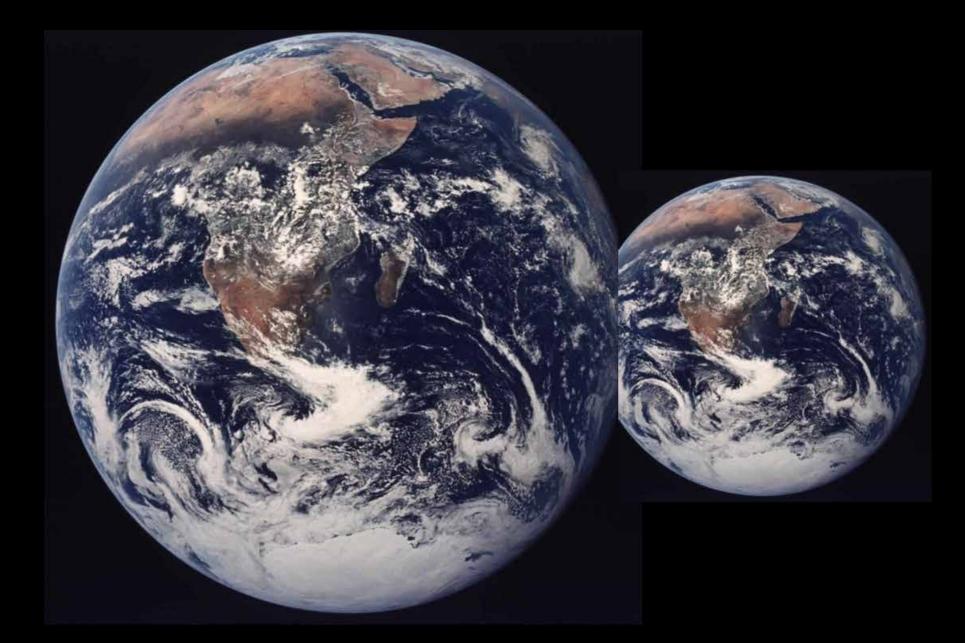




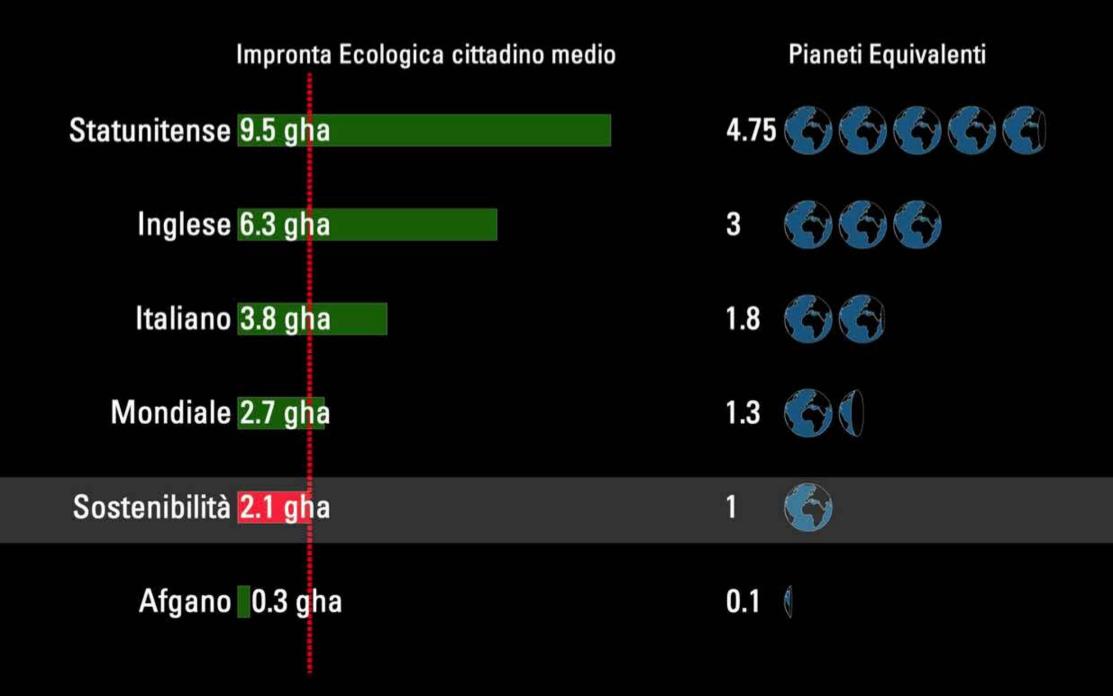
Geographic Projection Land use systems legend 19 Rainfed Agric. 7 Grasslands 13 Shrub cover 25 Urban 34 Bare areas 38 Water 30 Sparse areas 1 Forest (Subsistence / areas unmanaged unmanaged unmanaged unmanaged virgin unmanaged commercial) 35 Bare areas 39 Water 2 Forestry 8 Grasslands 14 Shrub cover 20 Crops and mod. 26 Wetlands 31 Sparse areas protected protected protected protected protected int. livest. density unmanaged protected 36 Bare areas 9 Grasslands 15 Shrub cover 32 Sparse areas 3 Forestry 40 Water 21 Crops and 27 Wetlands with low with agricultural low livestock low livestock with low inland fisheries high livest. density protected density density livest. density livest. density activities 22 Crops, large-scale 4 Forestry 10 Grasslands 16 Shrub cover 37 Bare areas 33 Sparse areas Country 28 Wetlands irr., mod. or moderate or higher moderate moderate with moderate boundaries with mod./high mangroves higher livest, dens. livestock density livestock density livestock density livest, density livest. density 11 Grasslands 29 Wetlands 17 Shrub cover 23 Agriculture high livestock high livestock with agric. Large scale irrig. density density activities 24 Agriculture © LADA / UNEP GEF protected

Reference: LADA, 2008. "Mapping Land Use Systems at global and regional scales for Land Degradation Assessment Analysis". Nachtergaele F. & Petri M. LADA Technical report n.8, version 1.1. The Land Use Database of the world was developed as part of the project Land Degradation Assessment in Drylands (LADA), a four-year project funded by the Global Environment Facility (GEF). The project is implemented by the United Nations Environment Programme (UNEP) and executed by the Food and Agriculture Organization of the United Nations (FAO). The geographic representation employed on this map do not imply of any opinion whatseever concerning the legal status of any county, territory, or concerning the delineation of its boundaries.

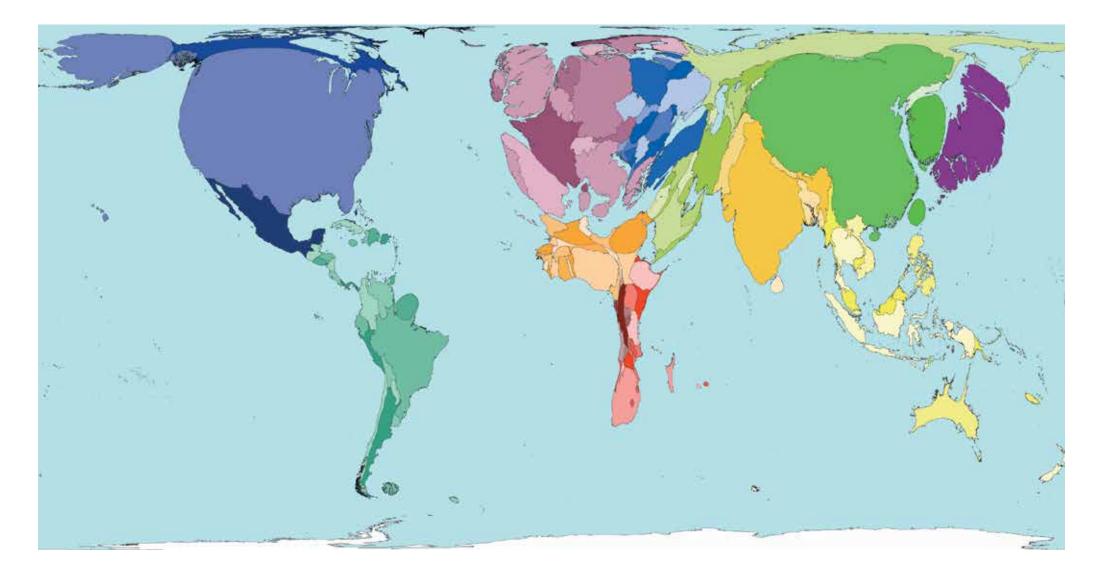




Today we need 1,5 equivalent planet Earths to provide the resources we need in a sustainable way



World map by footprint



"People consume resources and ecological services from all over the world, so their footprint is the sum of these areas, wherever they may be on the planet." The Living Planet Report, 2006



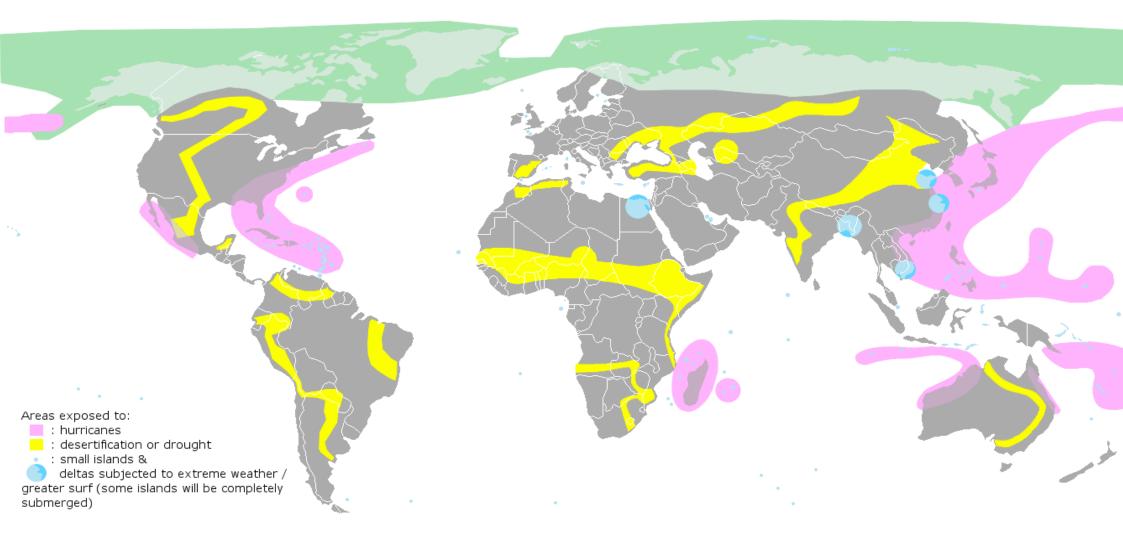


	economy
),475 ZJ	human
0,1 ZJ	tidal energy
1 ZJ	geothermie
551 ZJ	solar energy

Resilience city

BURNE

The new nomads: climate refugee



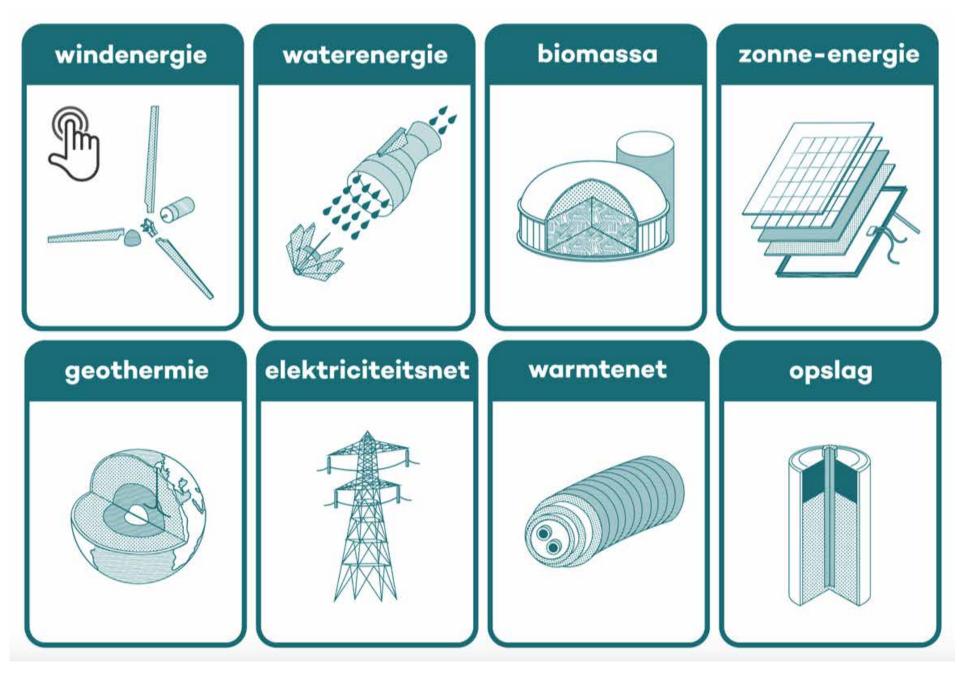
expected 150-200 millions in 2050

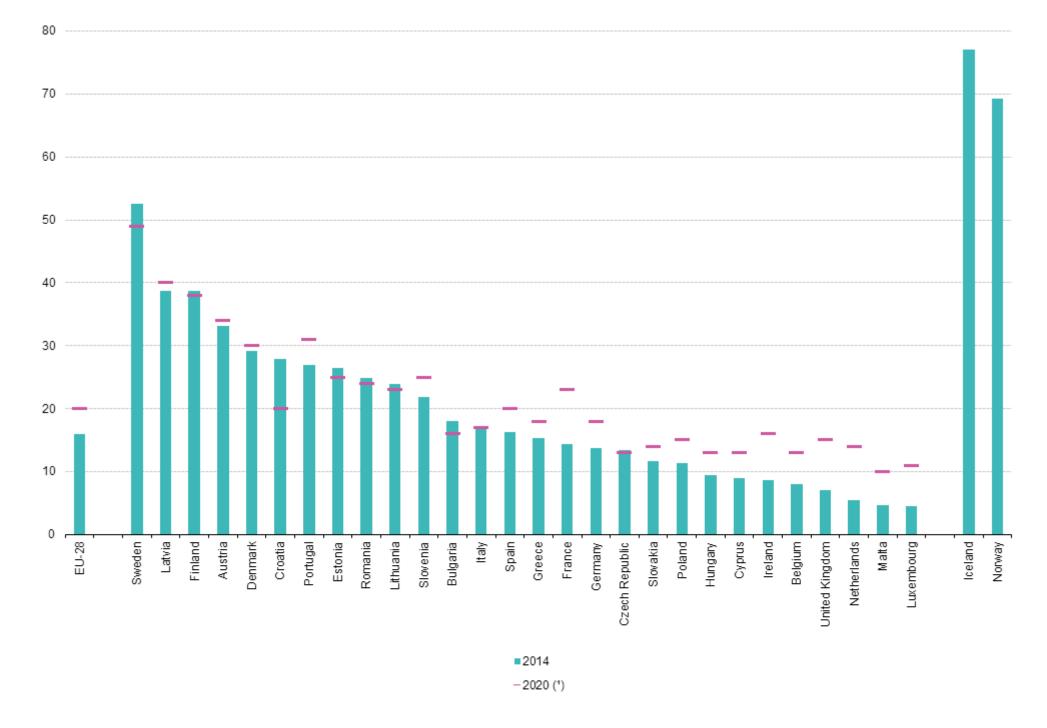


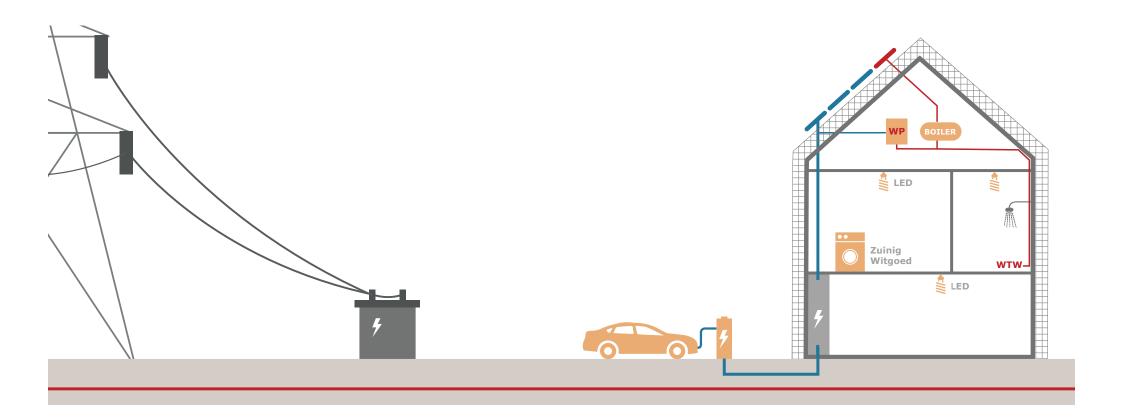


Saving -20% energy use, Japan 2011

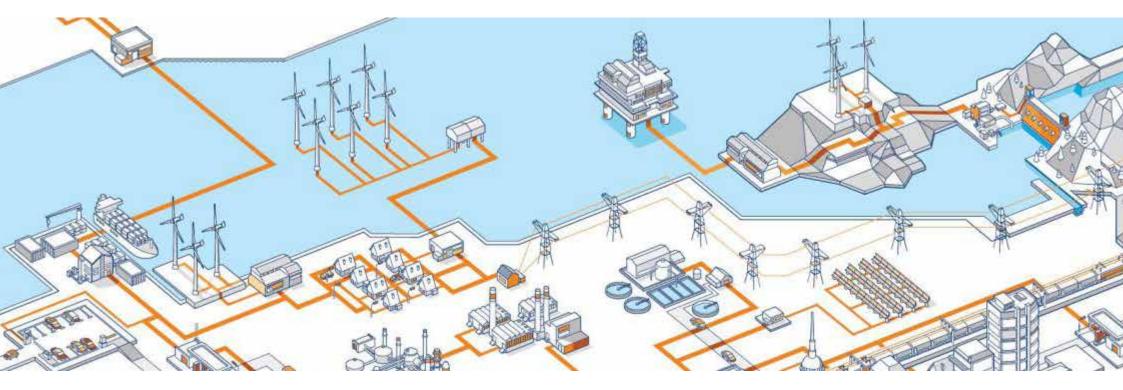
Energy from sustainable sources







Smart grid - smart city





2nd energy generation

11

Veen afgraving Drents Archief

Energy transition means landscape transition

3rd energy generation



Stad en landelijk gebied: Leiden

Provinciale weg

In landelijk gebied op de grens van stad en land worden de beperkingen voor nieuwe energie het meest zichtbaar

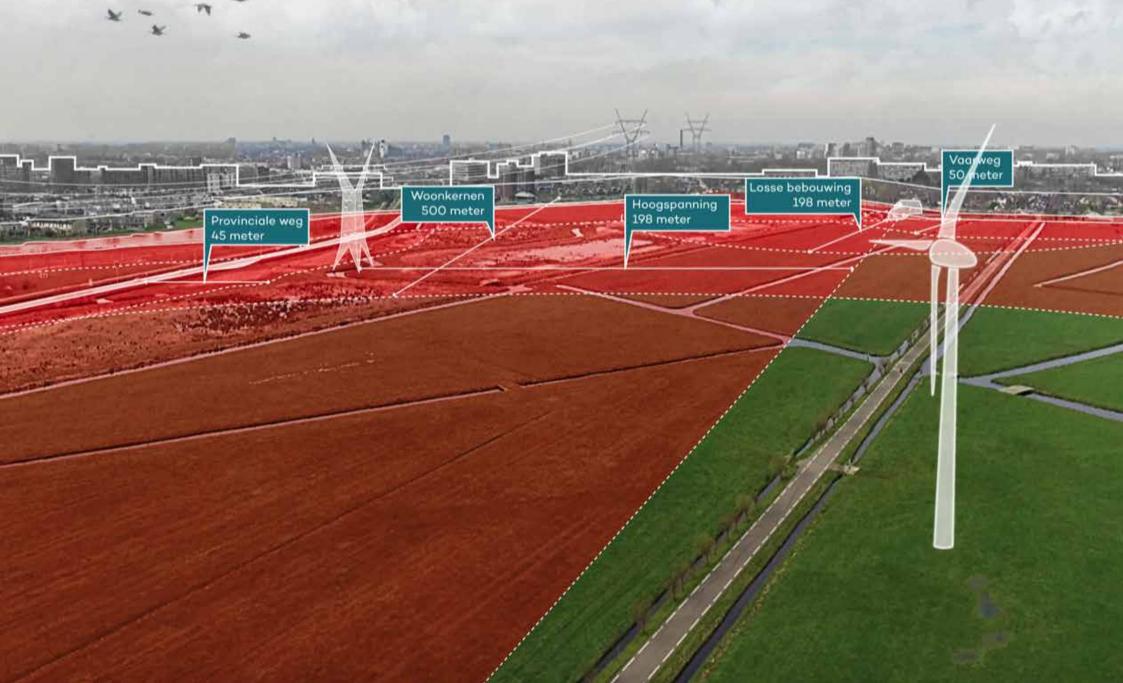
Hoogspanning

Vaarweg

Losse

bebouwing

Beperkingen 3MW windturbine



Beperkingen door nieuwe stedelijke ontwikkeling

Nieuwe beperkingszone





WINDSNELHEDEN

OPSTELLING OP LAND

VOLLAST UREN	
2240	
2620	

2850

7-7,5 m/s

7,5-8 m/s

>8 m/s

VERMOGEN EN GROOTTE

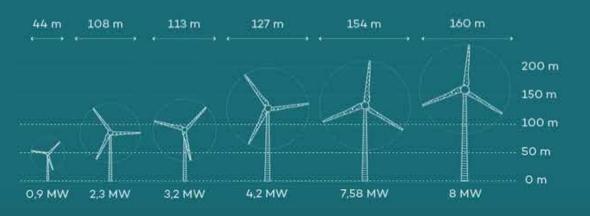
Op zee: **Op land:** a= 7XØ a= 6XØ b= 4XØ



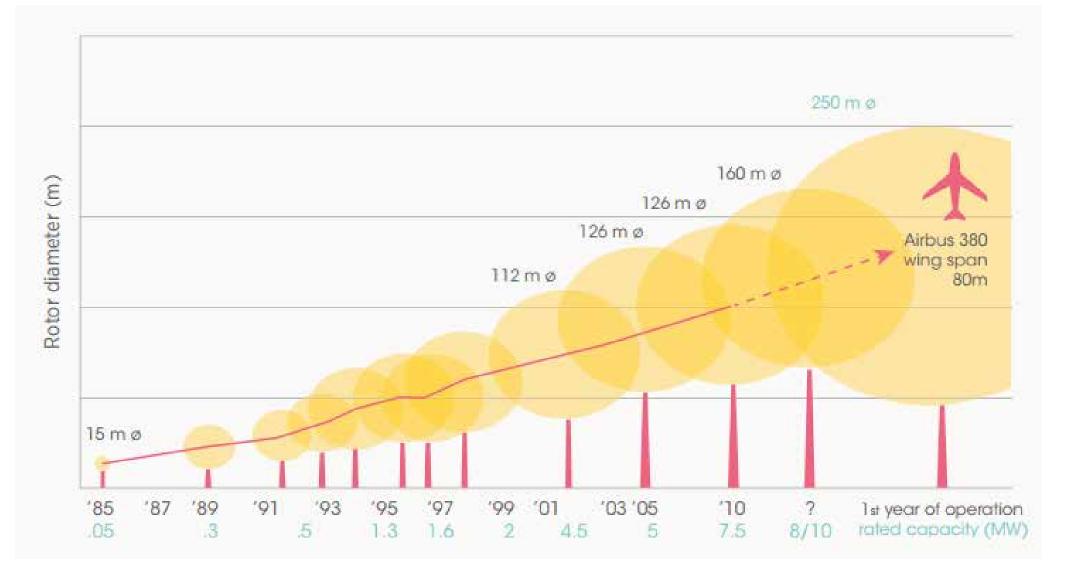


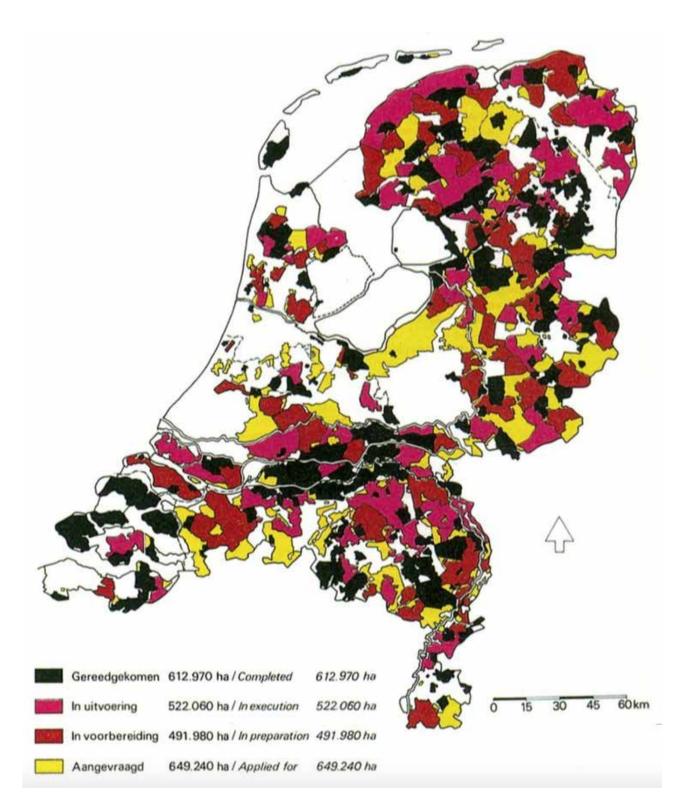
c= buffer ivm regeneratie van de luchtstroom

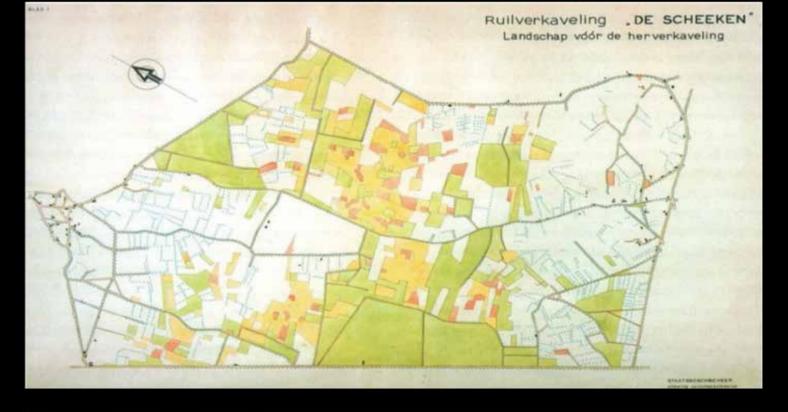


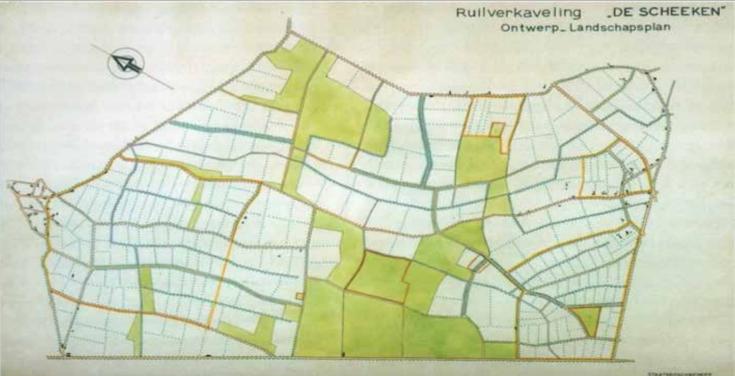












Sustainable energy becomes part of our culture

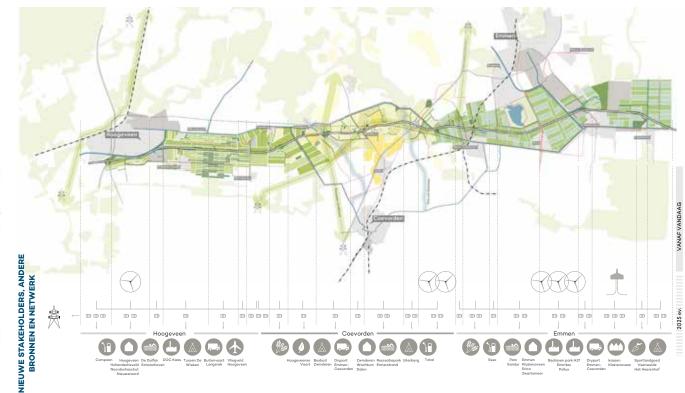
biogas

24 212 1 1 1 1 1 1

Solar bollenstrekken Posad

SOLAR ROAD







THE FUTURE IS ALREADY HERE

RE

IT IS JUST NOT EVENLY DISTRIBUTED - WILLIAM GIBSON

IABR Rotterdam 2016

12 1

In which city I would like to live?

Write down 3 things that you think are important for a livable city?

Which are your new values?

