

De stad van de toekomst

Zef Hemel,
Wibautleerstoel



Einde van een tijdperk



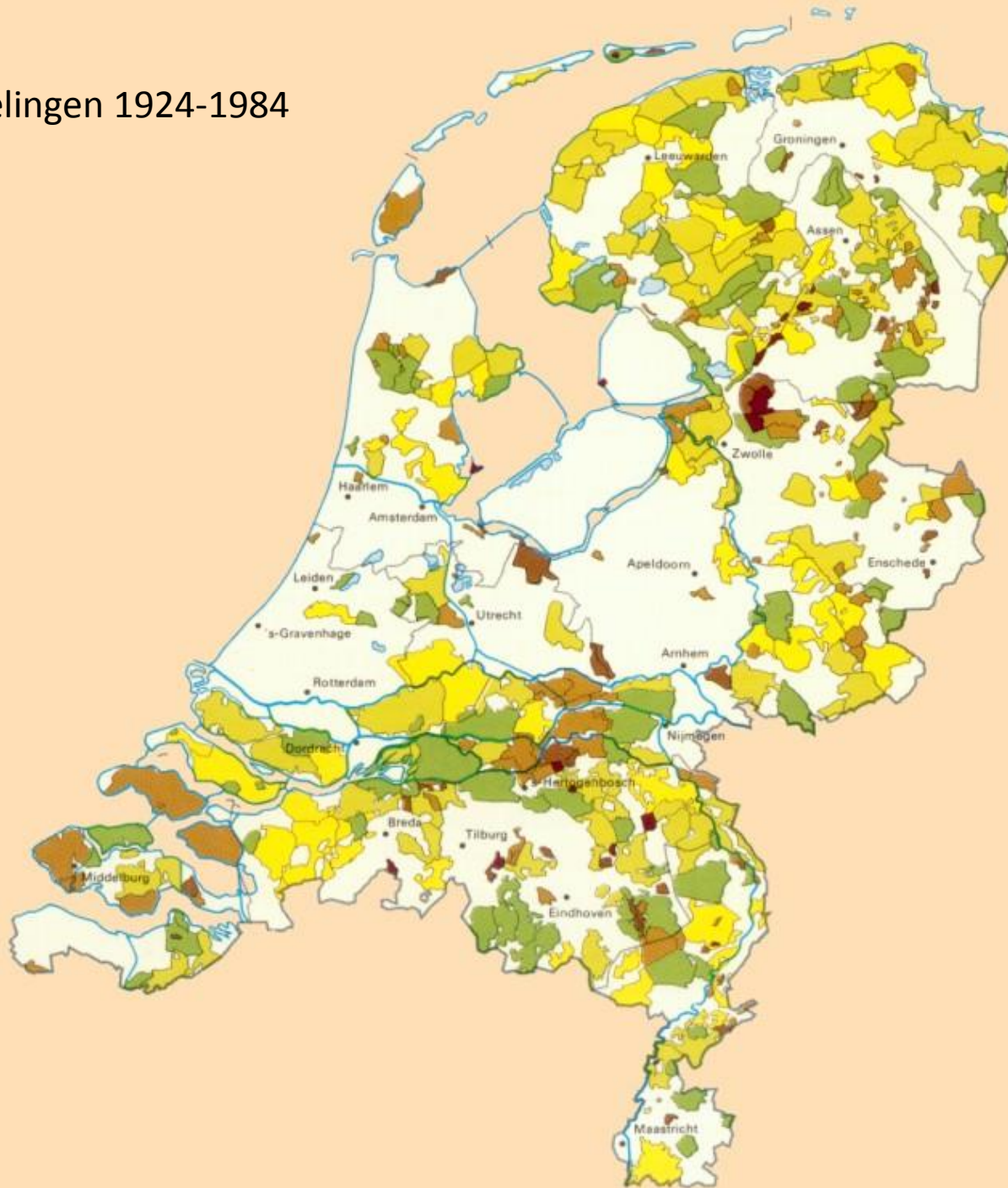
Structuurschema Hoofdwegennet
(1966)

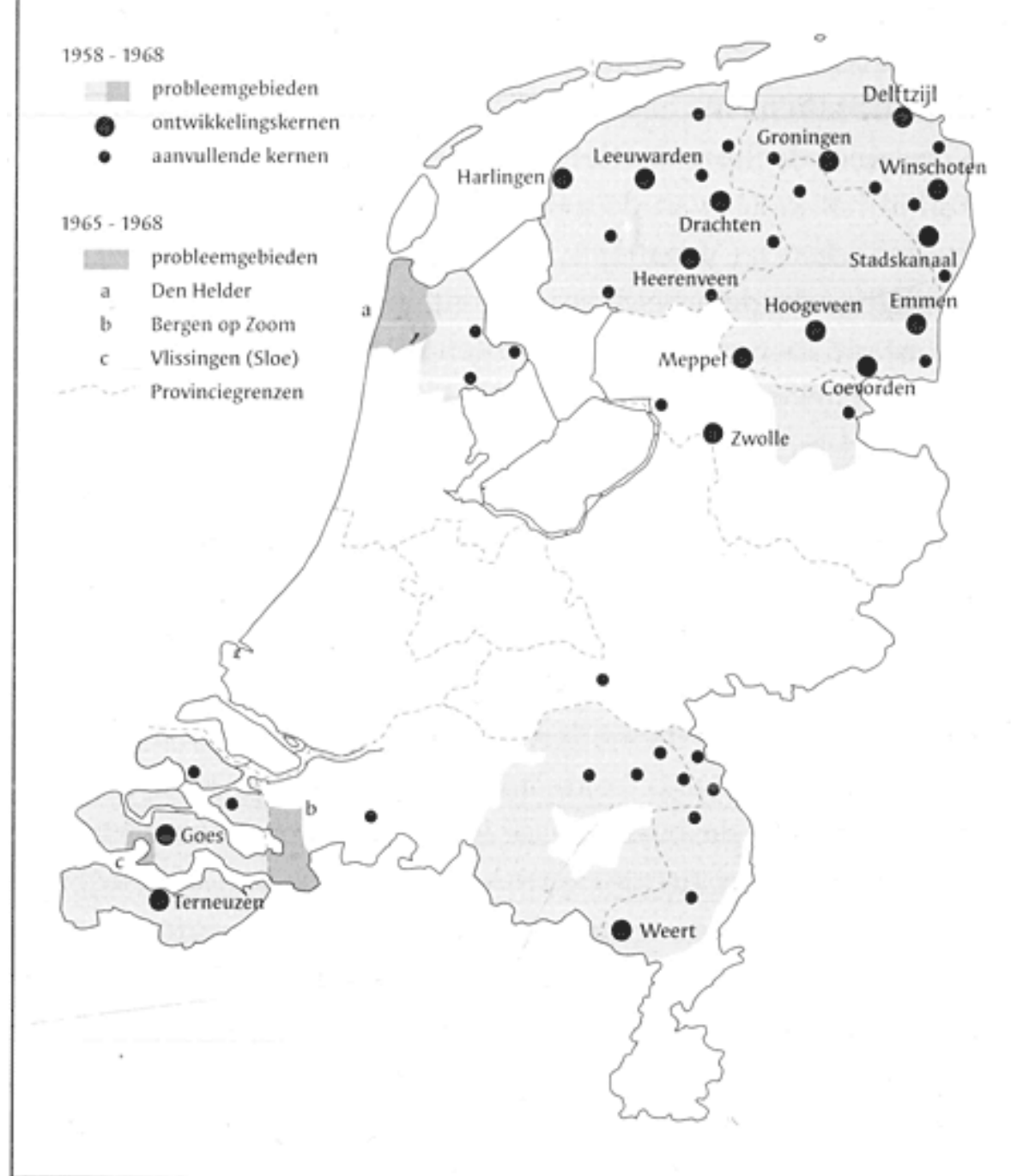
“Snelwegennet omstreeks 2000”

————— bestaand

..... gepland

ruilverkavelingen 1924-1984





Nieuwe industriesteden 1958-1968



RUIMTELIJKE STRUCTUURSCHETS VOOR
NEDERLAND OMSTREKS 2000

ruimtelijke oorden

- type A
- type B
- type C
- type D
- industrieel of huizen

- stadspark
- stadsgewestpark

- park- en watersportgebied van regionale betekenis
- park- en watersportgebied van nationale betekenis

- landschappelijk en recreatief te ontwikkelen verbindingzones

- hoofdwegen
- spoorwegen
- water

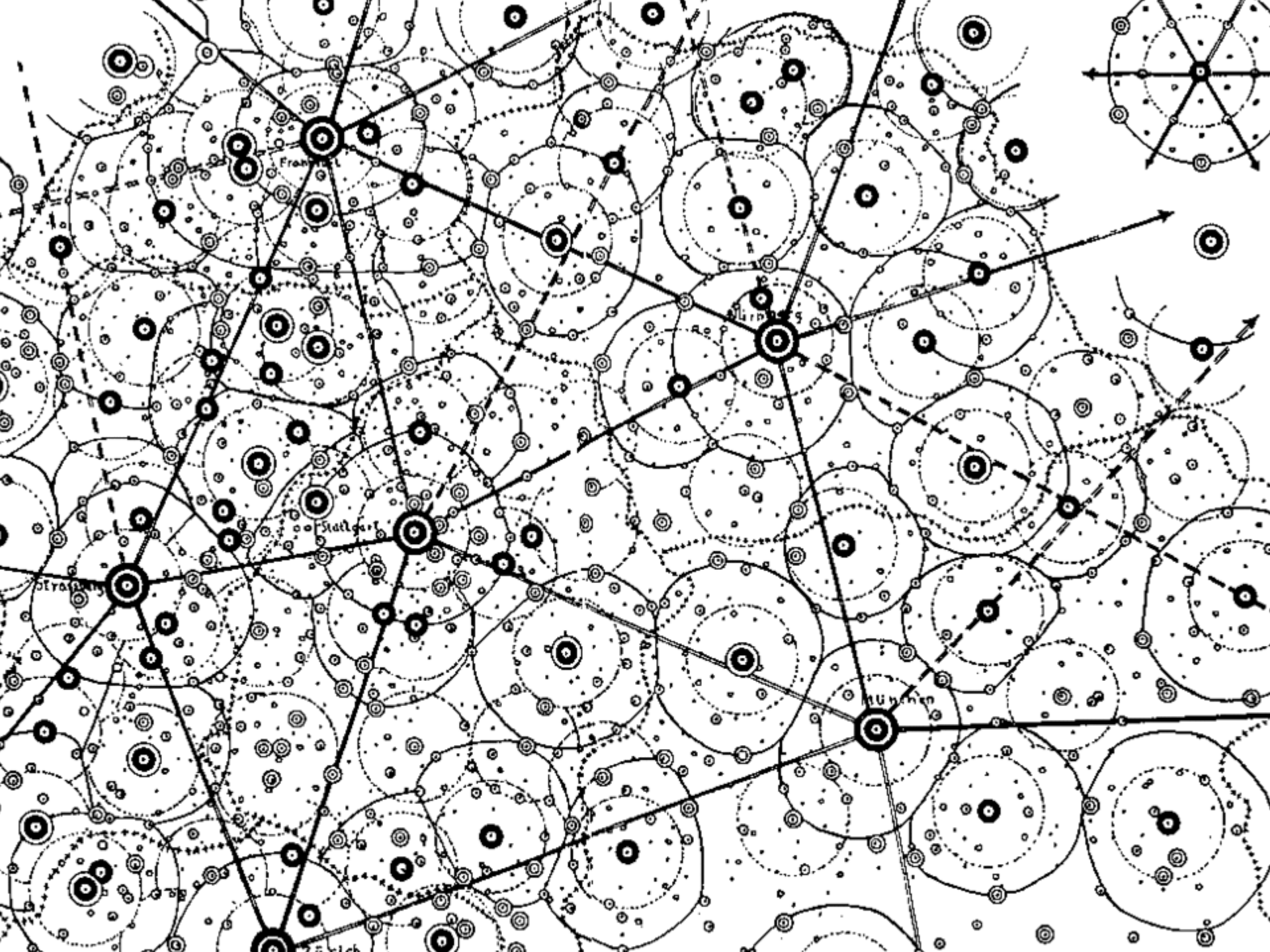
landschapsstructuur 1060

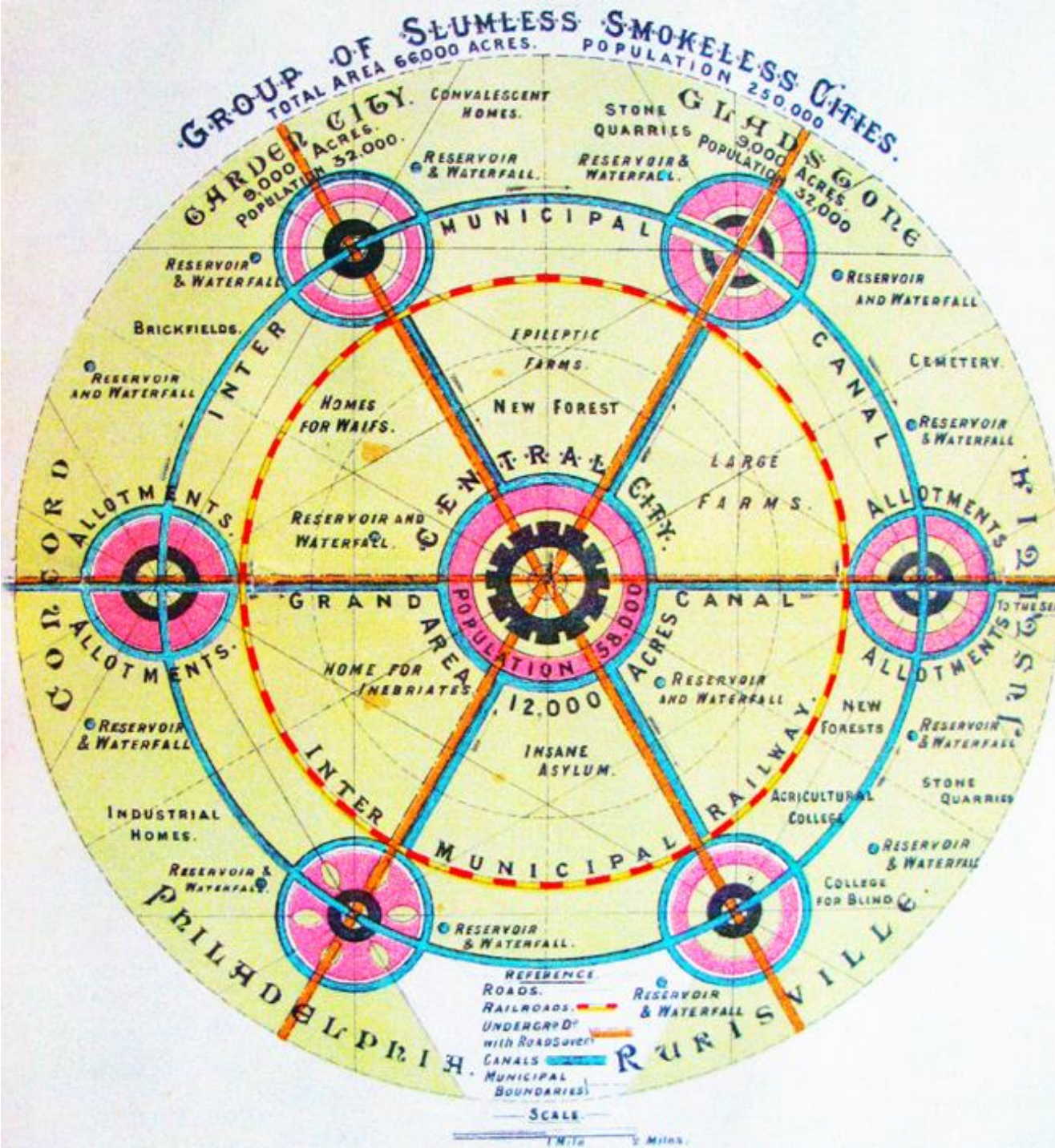
- open landschap
- coulisselandschap
- woested grond
- boslandschap
- tuinbouw onder glas

Schaal 1:500.000
0 5 10 15 20 km

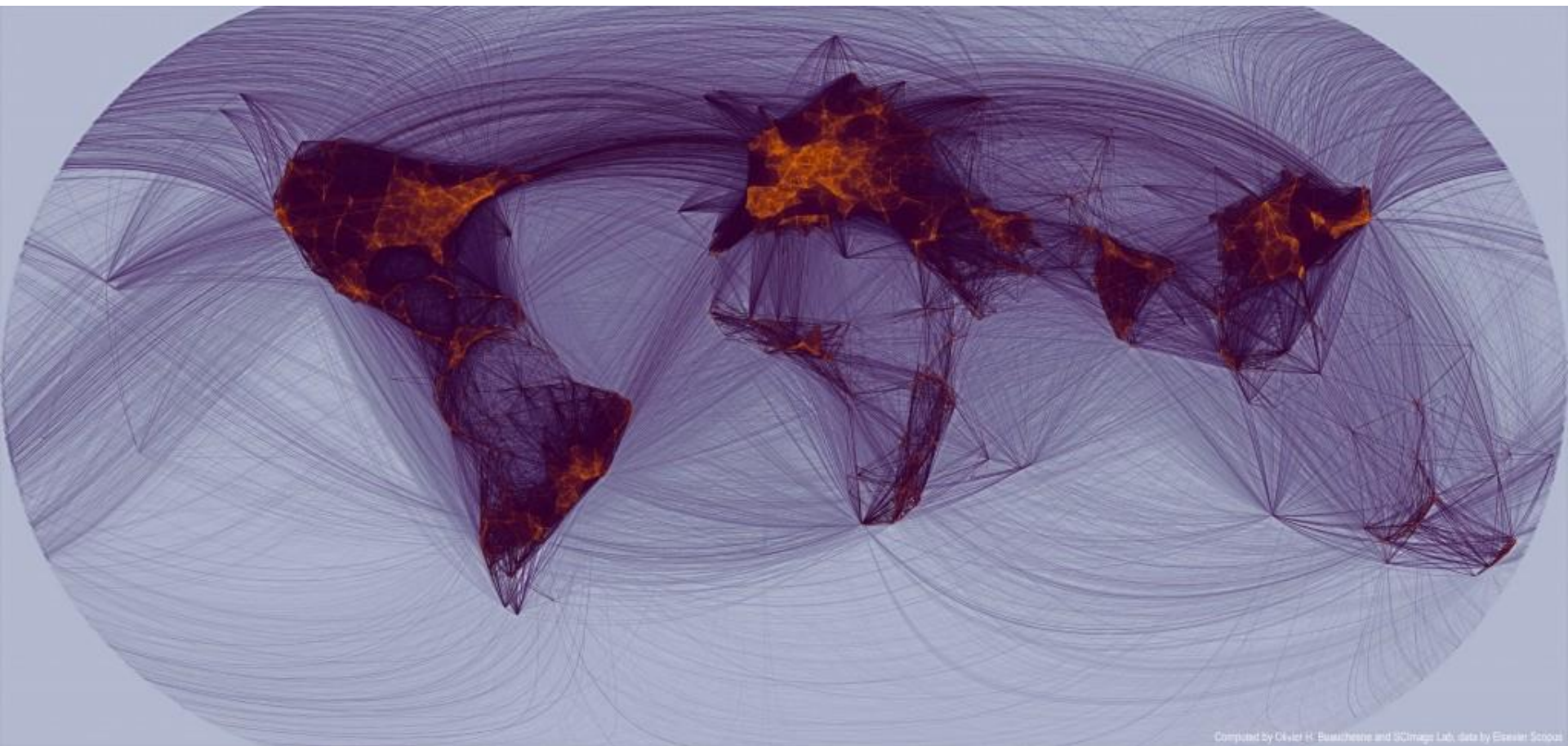
Tweede Nota
Ruimtelijke Ordening
(1966)

“Nederland omstreeks
2000”

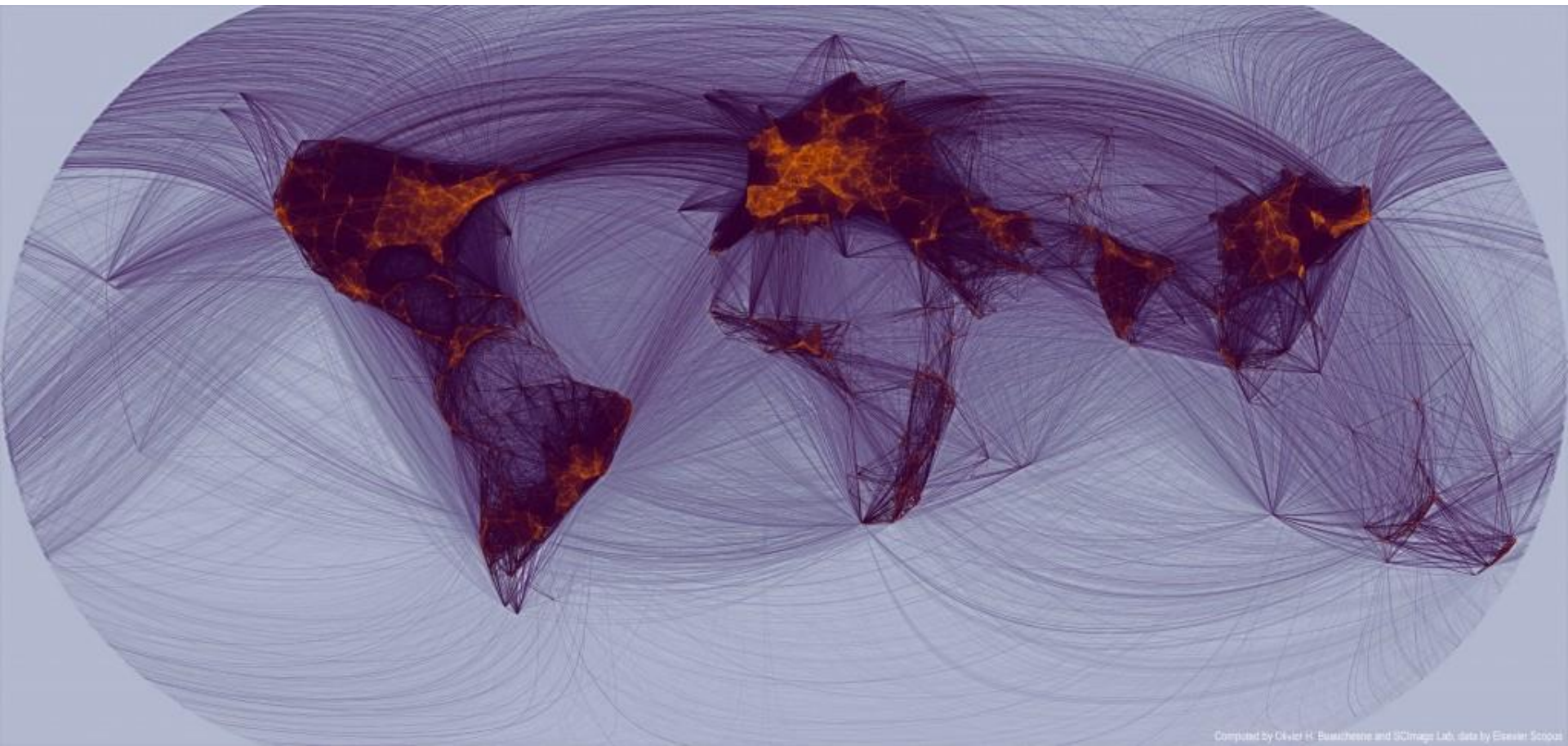




Begin van een nieuw tijdperk



Computed by Olivier H. Baschene and SCImage Lab, data by Elsevier Scopus



.... Mondiale stromen van grondstoffen, goederen, mensen, kapitaal en informatie.....



projectX - Facebook-rellen in Haren, Groningen op 12 september 2012

NEWS EUROPE

[Home](#) [UK](#) [Africa](#) [Asia](#) [Europe](#) [Latin America](#) [Mid-East](#) [US & Canada](#) [Business](#) [Health](#) [Sci/Envir](#)

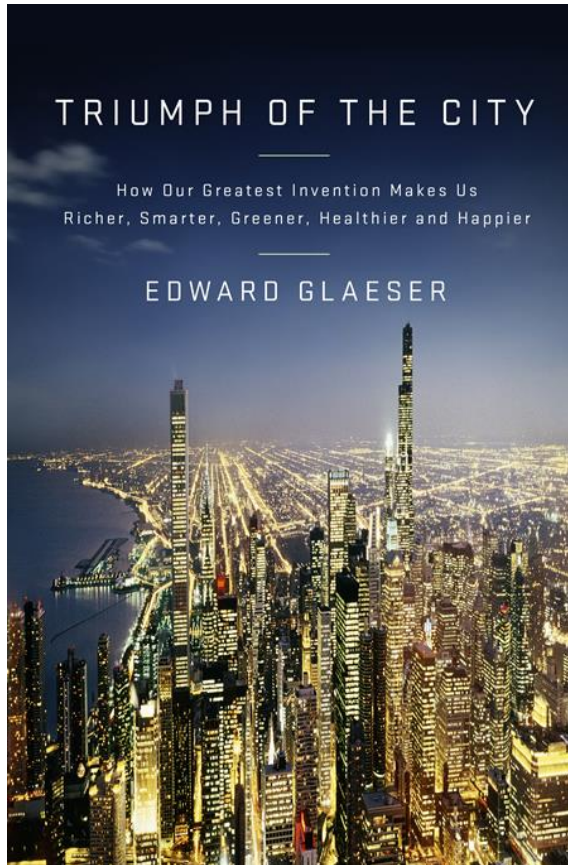
22 September 2012 Last updated at 10:01 GMT

7.2K [Share](#) [f](#) [t](#) [e](#) [p](#)

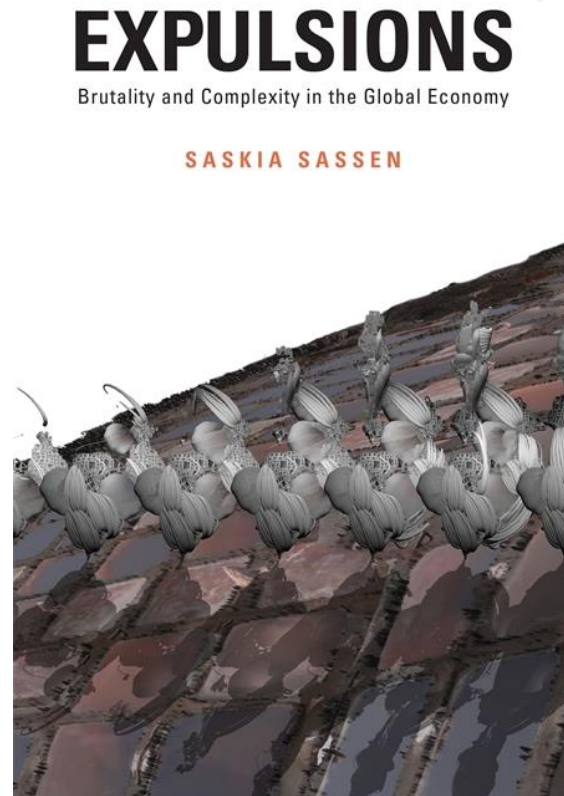
Facebook party invite sparks riot in Haren, Netherlands



Up to 600 riot police were deployed



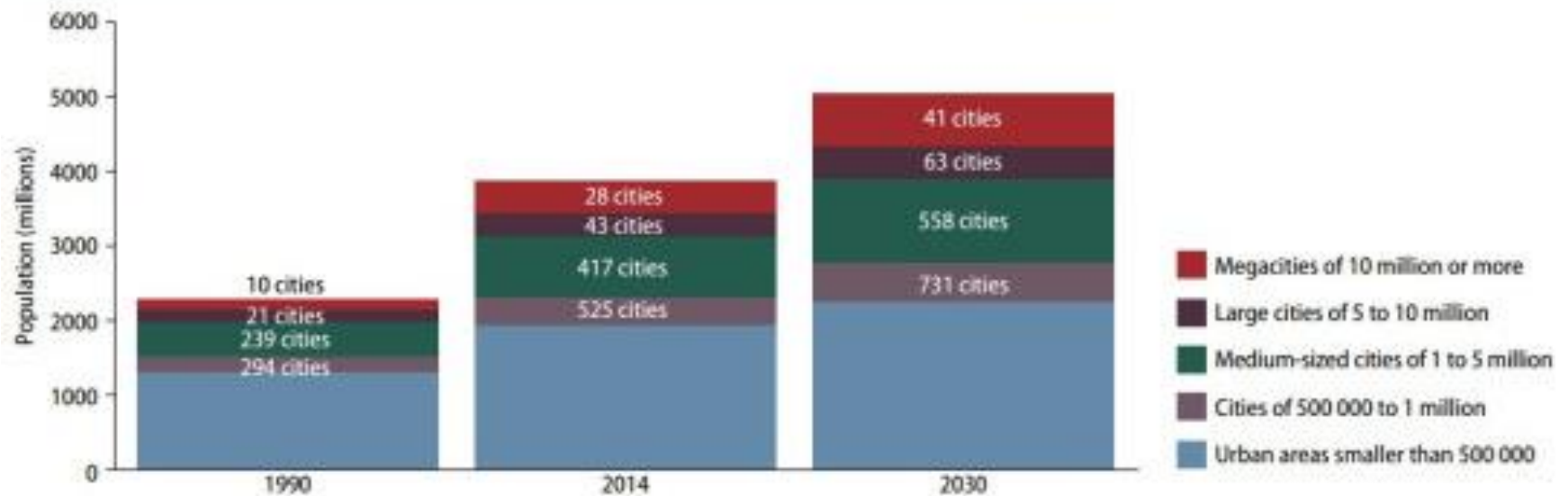
Triomf van de stad.....



.....brutaliteit en complexiteit

Groei en krimp

Global urban population growth is propelled by the growth of cities of all sizes



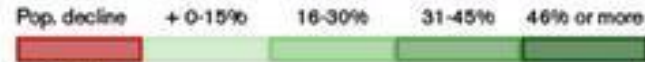
UN, World Urbanization Report, 2014

Cities with a projected 2030 population of more than 10 million

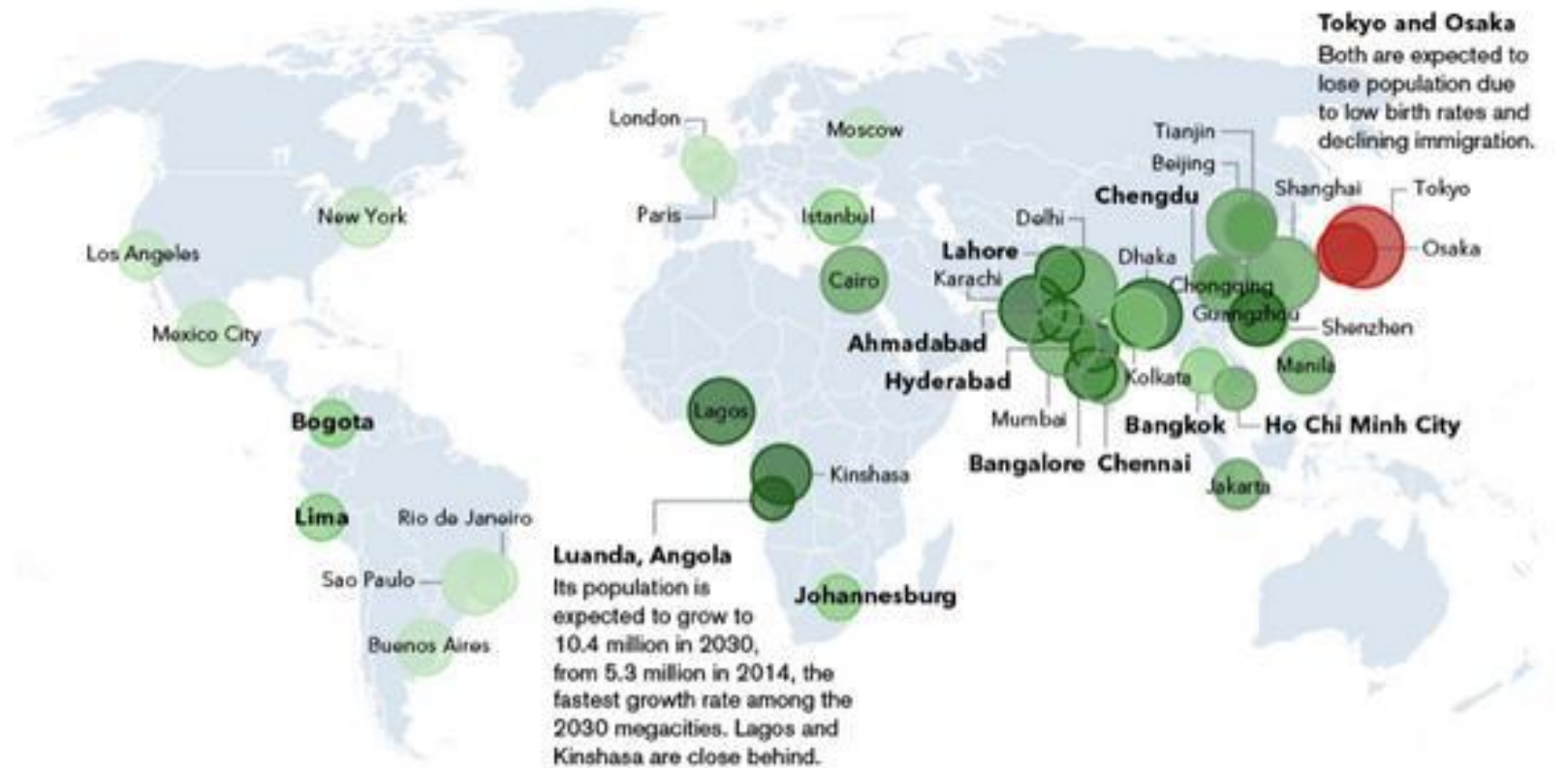
2030 population



Change in population from 2014 to 2030



Bolded cities: projected to surpass 10 million people between 2014 and 2030



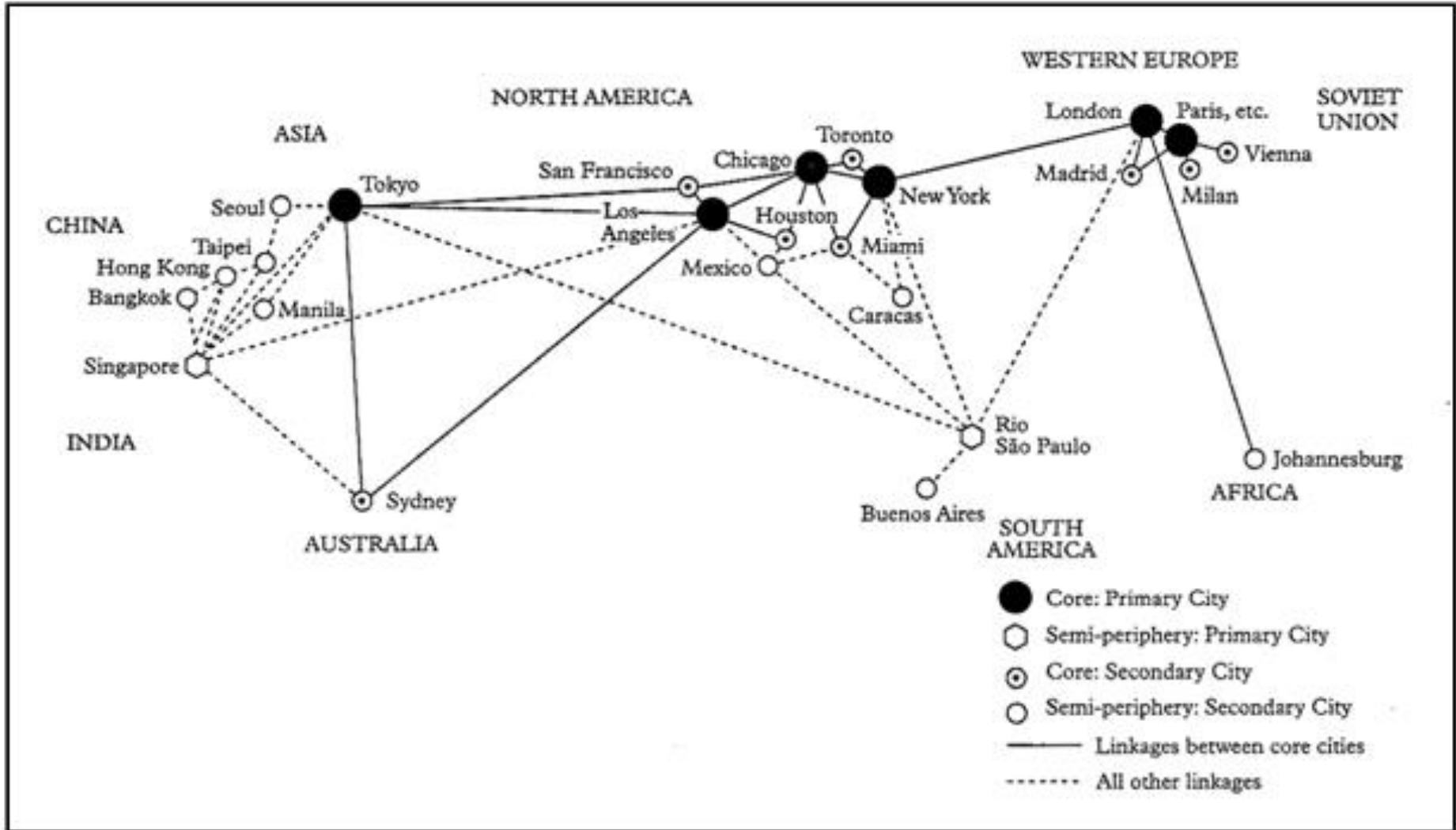
Source: United Nations World Urbanization Prospects

GRAPHIC: ALEX TRIBOU / BLOOMBERG VISUAL DATA

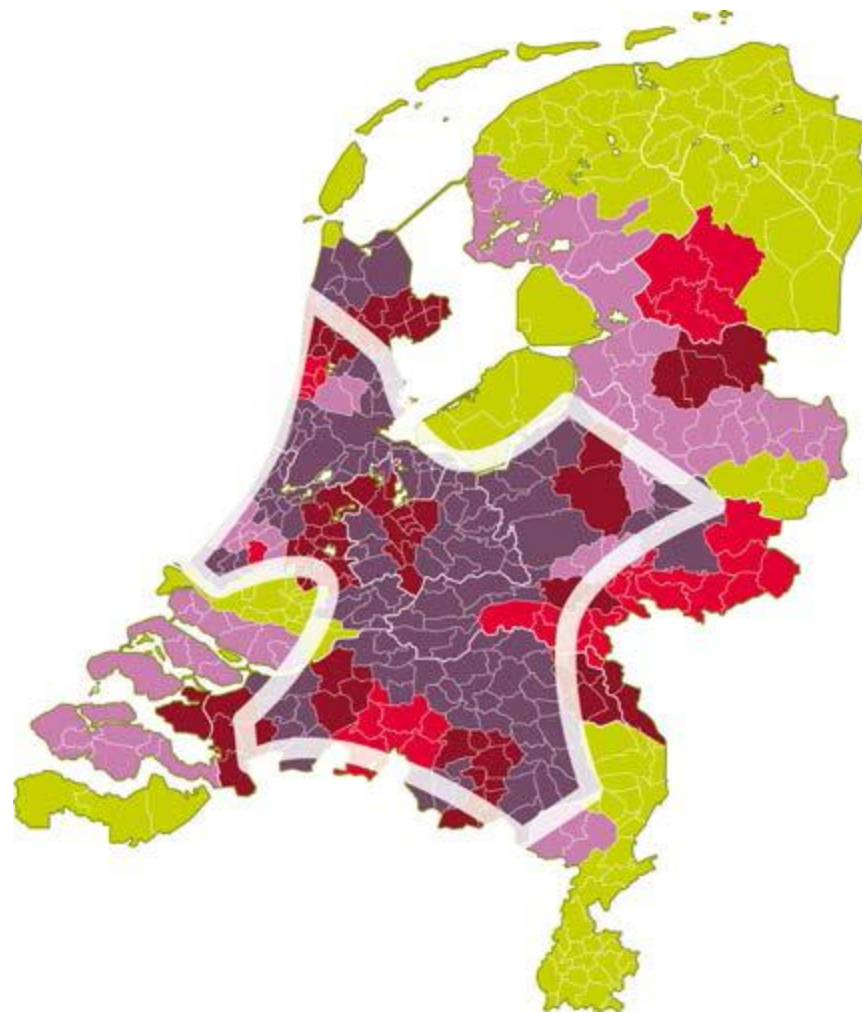
UN, World Urbanization Report, 2014

			Population (millions)		GDP (billions of U.S. dollars)			
Rank	City	Country	2010	2025	2010	2025	Total Growth	% Growth
1	Shanghai	China	22.3	30.9	\$250.7	\$1,112.2	\$861.5	344%
2	Beijing	China	18.8	29.6	206.2	1,027.9	821.7	398%
3	Tianjin	China	11.1	15.2	128.8	624.4	495.7	385%
4	São Paulo	Brazil	19.7	23.2	437.3	912.9	475.7	109%
5	Guangzhou	China	11.1	14.9	146.1	573.0	426.9	292%
6	Shenzhen	China	10.4	13.7	141.5	523.6	382.1	270%
7	New York	United States	18.9	19.7	1,180.3	1,553.1	372.7	32%
8	Chongqing	China	15.7	19.4	88.6	458.6	370.0	418%
9	Moscow	Russia	11.6	12.7	325.8	688.5	362.7	111%
10	Tokyo	Japan	36.4	36.7	1,874.7	2,218.6	343.9	18%

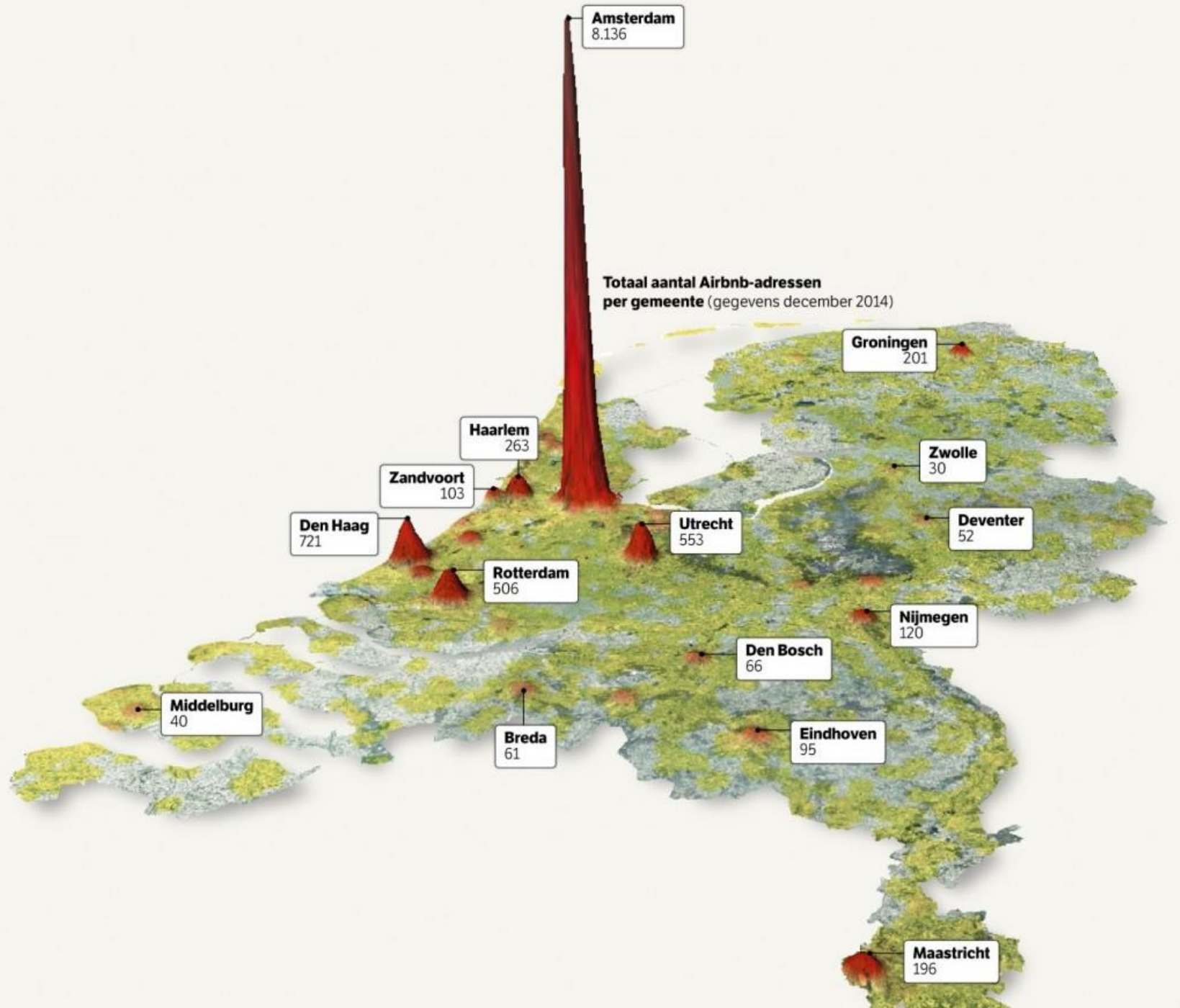
Foreign Policy Sept/Oct 2012



John Friedmann, the World City Hypothesis 1986



Friso de Zeeuw, 'rompertje' van sterke en krimpende marktgebieden, 2010

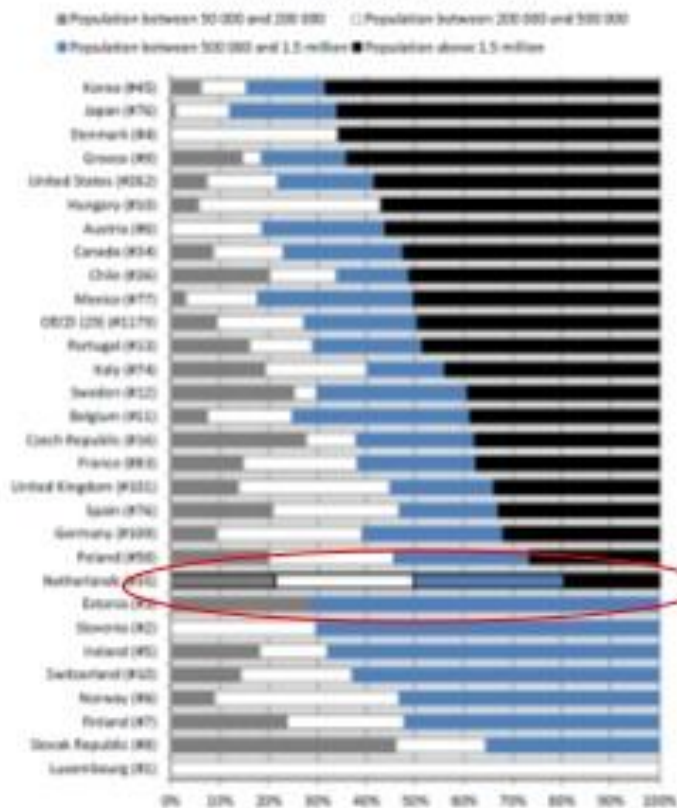


Weinig agglomeratievoordelen

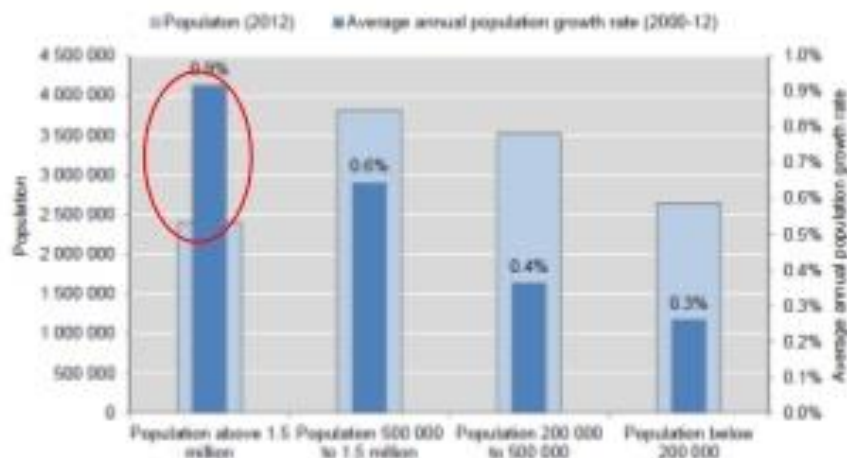


The distribution of Dutch FUA's reveals...

Distribution of population by city size, 2012



Population growth in the Netherlands' 35 functional urban areas



...more dynamic growth in the largest FUA's

The largest FUAs tend to be more dynamic in terms of population growth than medium and smaller ones.

...a balanced settlement pattern :

- 50% live in large MA and in MA
- 50% in small and medium size FUA's...

- The presence of a rich polycentric urban structure across the country



There is scope for improving the performance of the largest FUAs in the Netherlands to remain competitive globally...

Labour productivity growth in five Dutch FUAs, 2000-10

	Growth rate labour productivity	Growth rate per capita GDP	Growth rate population
Netherlands FUA large (>1.5 million)	0.60%	0.75%	0.91%
Netherlands FUA metro (500 000-1.5 million)	0.43%	0.54%	0.63%
Netherlands (country)	0.74%	0.93%	0.44%
OECD 19 (FUA) ¹	1.10%	1.00%	0.93%
OECD (28 countries) ²	0.99%	1.00%	0.59%

- ❖ **Labour productivity growth** in the five largest FUAs in the Netherlands is **significantly lower** than in the OECD and in the Netherlands as a whole
- ❖ **GDP per capita** grew at a **lower rate** than the national and OECD rate of growth,
- ❖ **Population** in contrast , **surpassed the national growth** rate and was close to the OECD average rate of population growth.



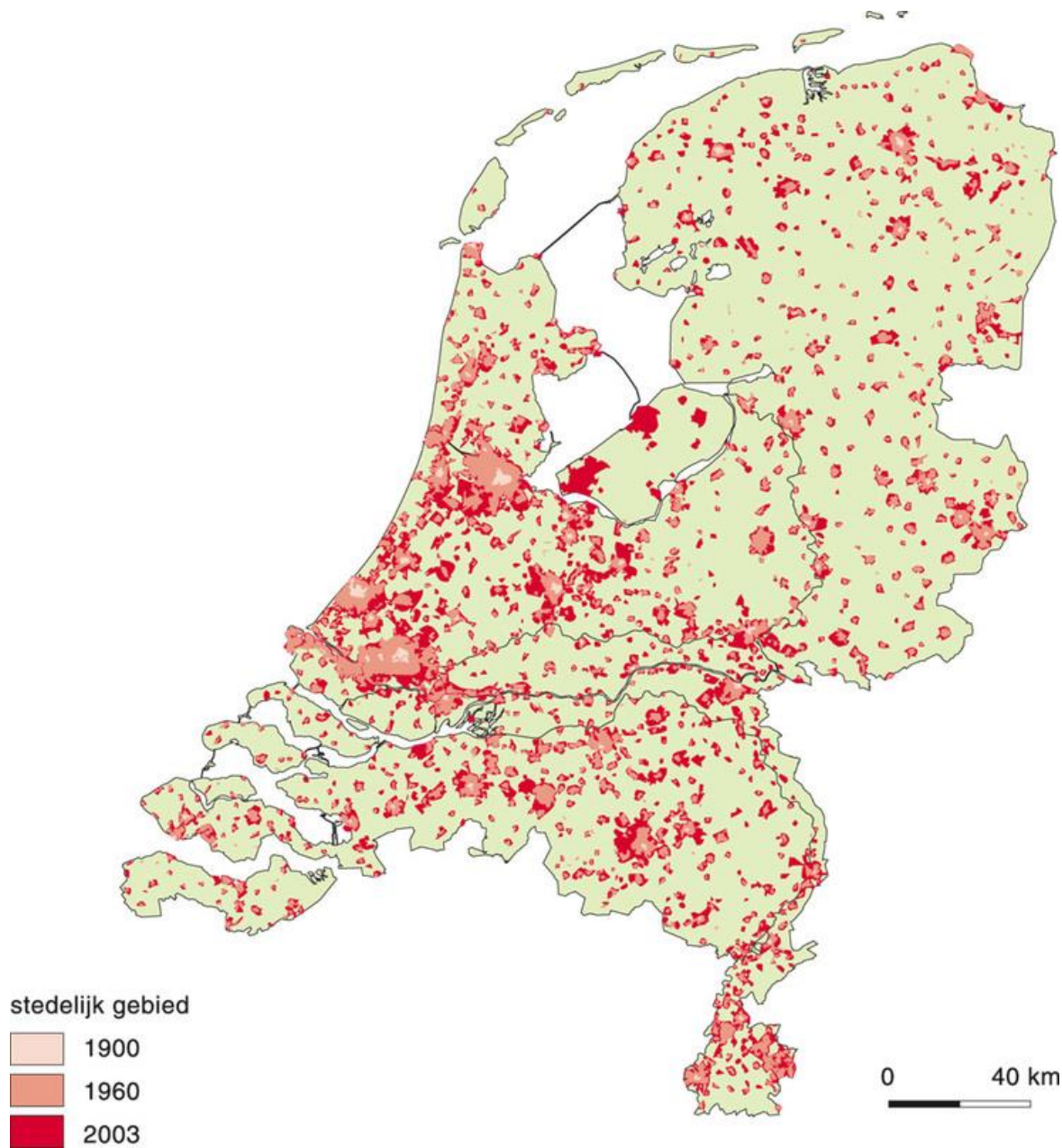
Key Recommendations

- 1. There is a need to create a National Urban Policy Framework, currently lacking in the Netherlands:**
 - Ensures that policies are aligned to the relevant economic scale, thus improving economies of agglomeration
 - Reduces fragmentation

- 2. Economies of agglomeration can also be enhanced by improving connectivity between FUAs:**
 - Enhancing connectivity amongst the largest FUAs in the West of the country
 - Ensure that the rest of the city structure remains well connected to each other and to the core
 - Improve connectivity of cross-border labour markets and connectivity of FUAs in the east of the country to German cities

- 3. Regional development strategies should build upon FUAs:**
 - Urban rural linkages

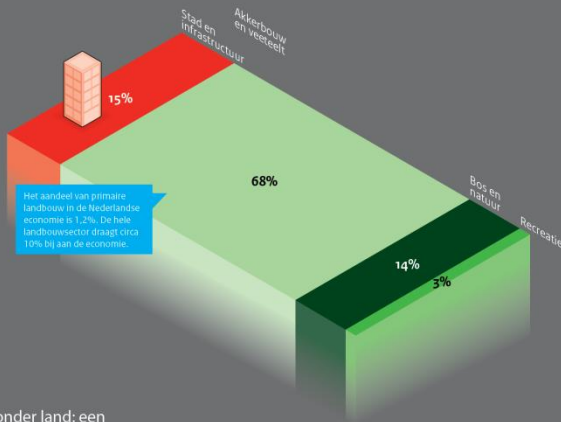
Stadstaat



Nederland: geen dichtbevolkt land, maar....

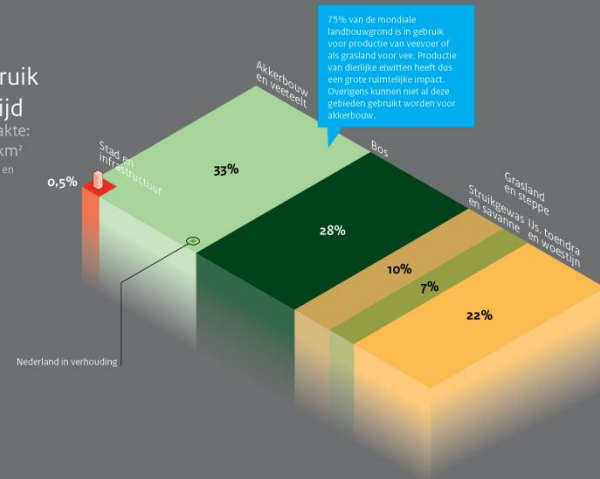
Nederland: een dunbevolkte stad

Landgebruik
Nederland
Landoppervlakte:
34.000 km²

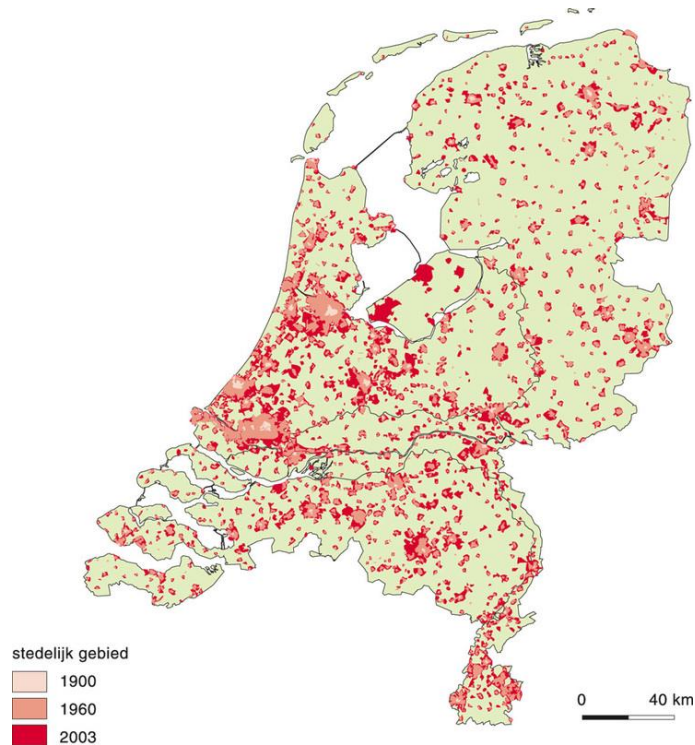


Nederland is een bijzonder land: een landbouwgrootmacht in een verstedelijkte samenleving, waardoor de druk op het milieu hoog is.

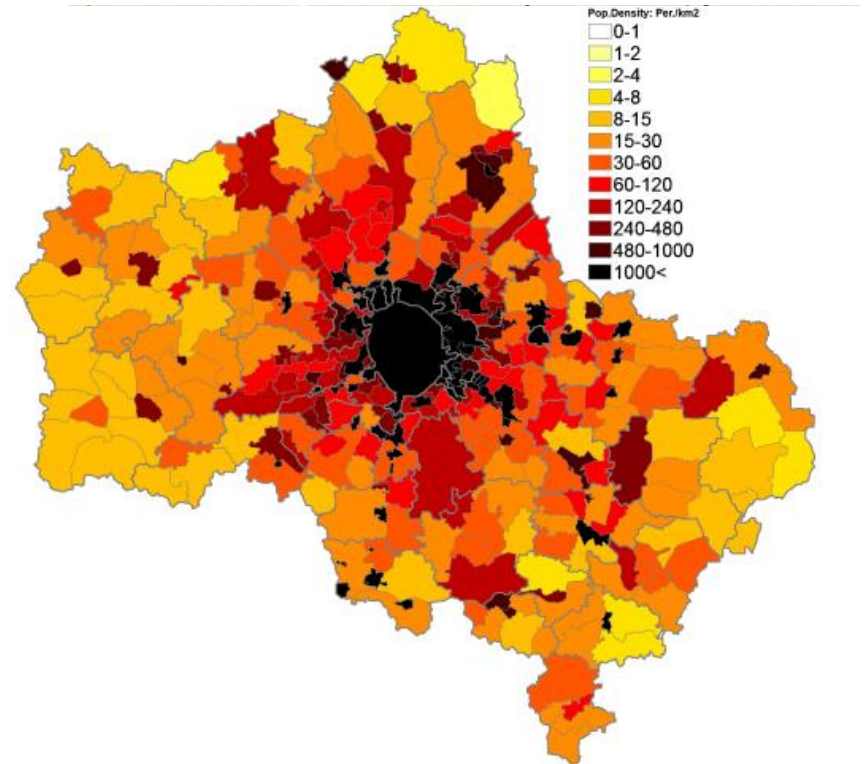
Landgebruik
wereldwijd
Landoppervlakte:
133.000.000 km²
exclusief Groenland en Antarctica



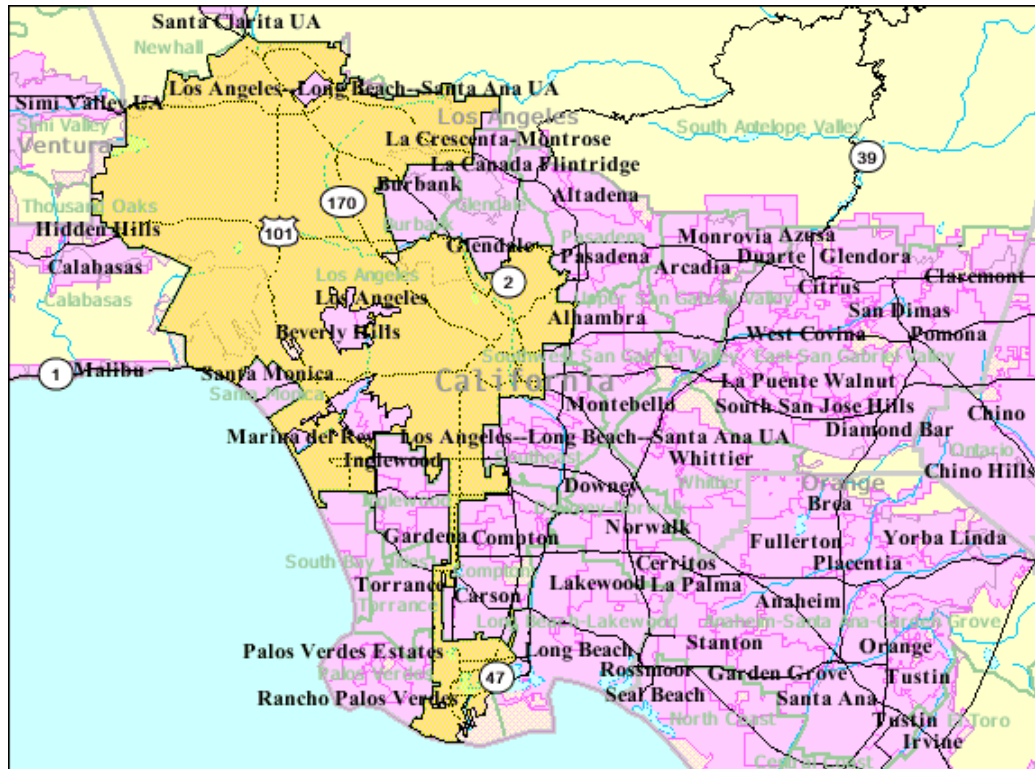
Planbureau voor de Leefomgeving (PBL), bewerking van Statline CBS 2008 en Indicator 0061 (CLO ruimtegebruik). CBS, PBL, Wageningen UR (2011). [Kaart bodemgebruik van Nederland](#), 2008 (indicator 0061, versie 08, 9 december 2011).



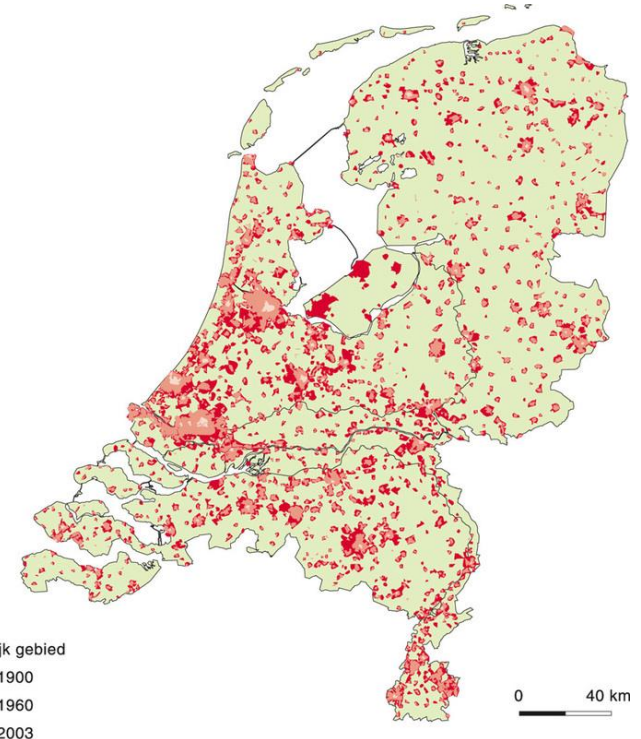
Netherlands
 41.500 km²
 16,7 mio inhabitants
 408 mrd \$ GDP per capita
 1,0% economic growth



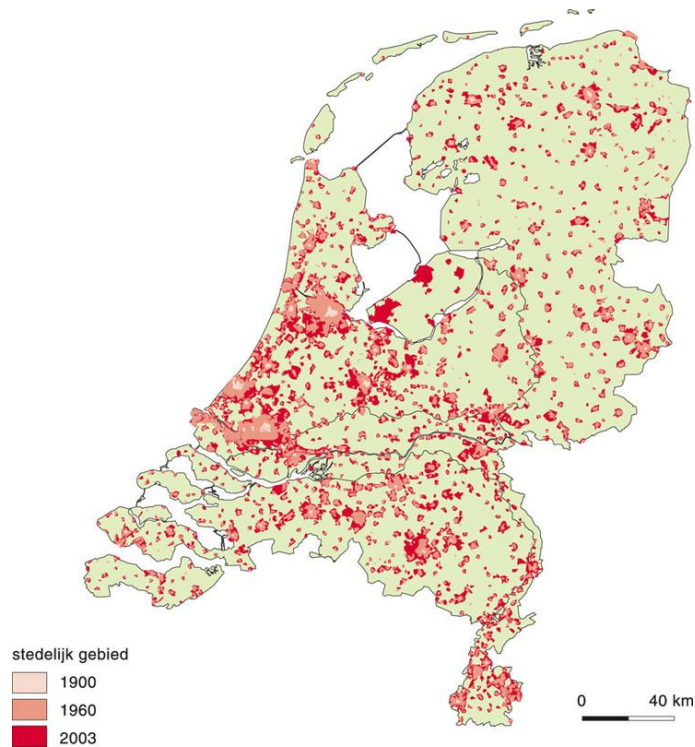
Moscow oblast
 45.900 km²
 17 mio inhabitants
 401 mrd \$ GDP per capita
 4% economic growth



Los Angeles Metro Area
 87.945 km²
 18,2 mio inhabitants
 831 mrd \$ GDP per capita
 2,4% economic growth



Netherlands
 41.500 km²
 16,7 mio inhabitants
 408 mrd \$ GDP per capita
 1,0% economic growth



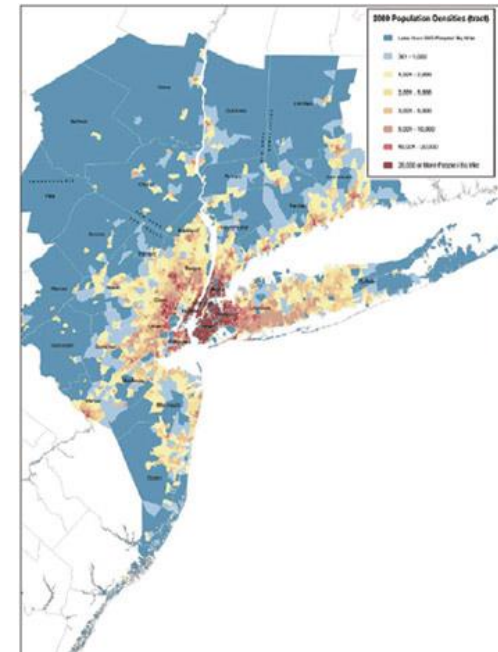
Netherlands

41.500 km²

16,7 mio inhabitants

408 mrd \$ GDP per capita

1,0% economic growth



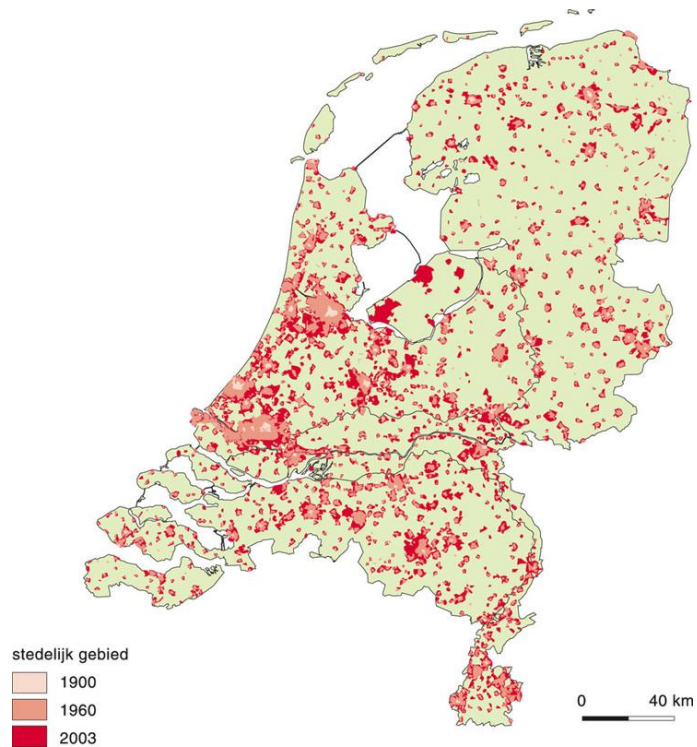
New York Metro

17,405 km²

20,1 mio inhabitants

1560 mrd \$ GDP per capita

2,5% economic growth



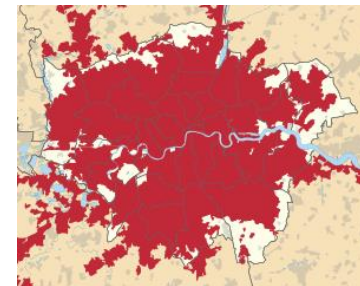
Netherlands

41.500 km²

16,7 mio inhabitants

408 mrd \$ GDP per capita

1,0% economic growth



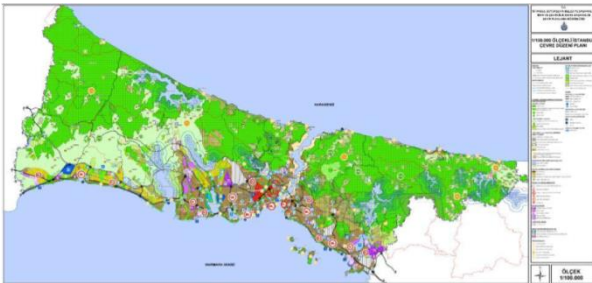
Greater Londen

1.738 km²

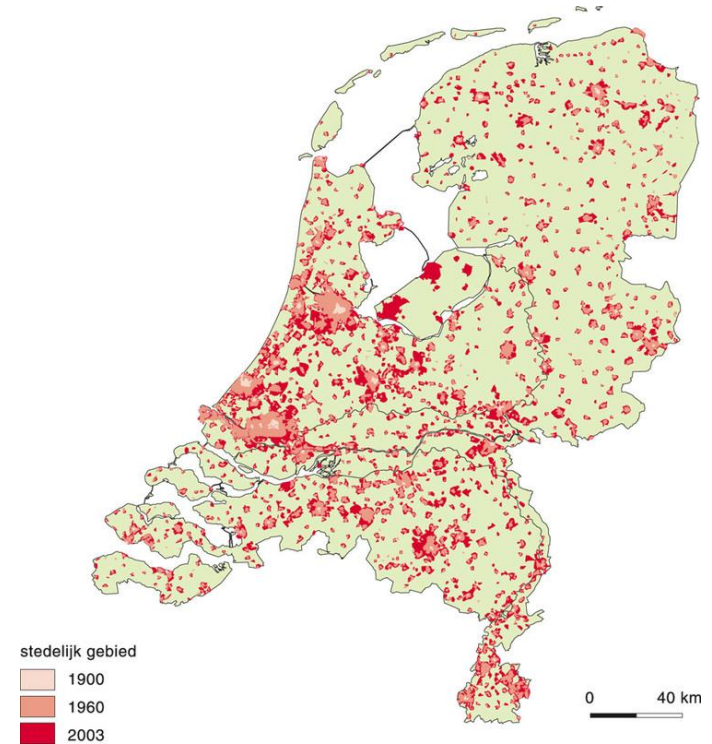
9,8 mio inhabitants

377 mrd \$ GDP per capita

5,6% economic growth

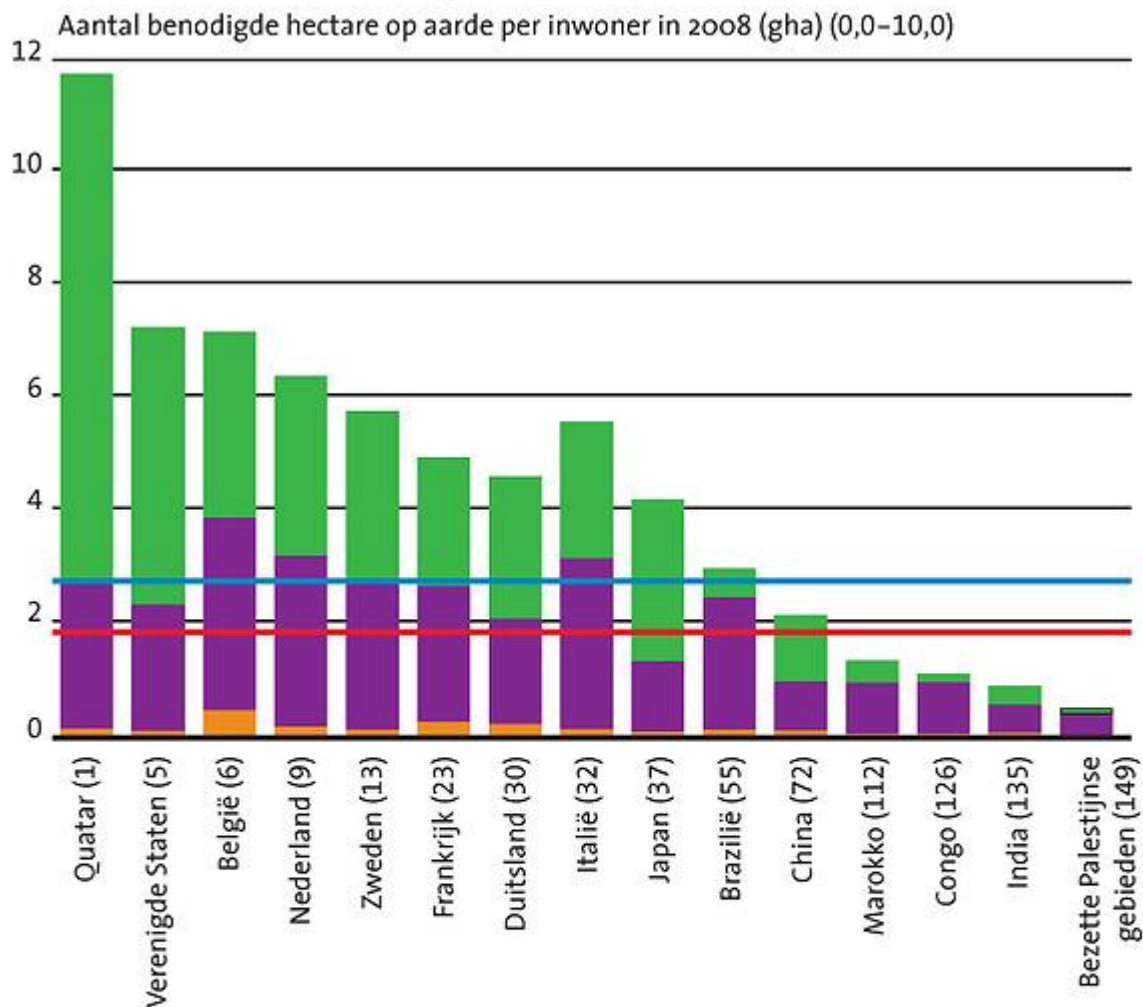


Istanbul Metropolitan Area
 5.398 km²
 14,38 mio inhabitants
348.7 mrd \$ per capita
3,7% economic growth



Netherlands
 41.500 km²
 16,7 mio inhabitants
408 mrd \$ GDP per capita
1,0% economic growth

Ecologische voetafdruk



- bos dat nodig is om CO₂ te compenseren (energiegebruik)
- grond nodig voor voedsel (vlees, vis en planten) en hout
- grond nodig voor infrastructuur (gebouwen en wegen)

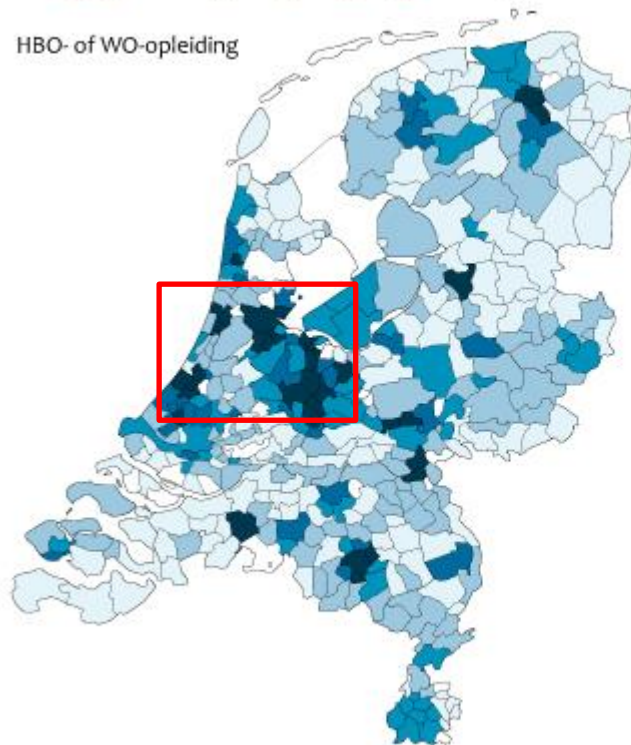
— beschikbare gha per inwoner op aarde: 1,8

— gemiddelde gha per inwoner op aarde: 2,7

Toekomstbeeld

Hoogopgeleiden (15 – 64 jaar) per gemeente, 2011

HBO- of WO-opleiding



Aandeel in %

Minder dan 21

21 – 25

26 – 30

31 – 35

Meer dan 35

Geen gegevens

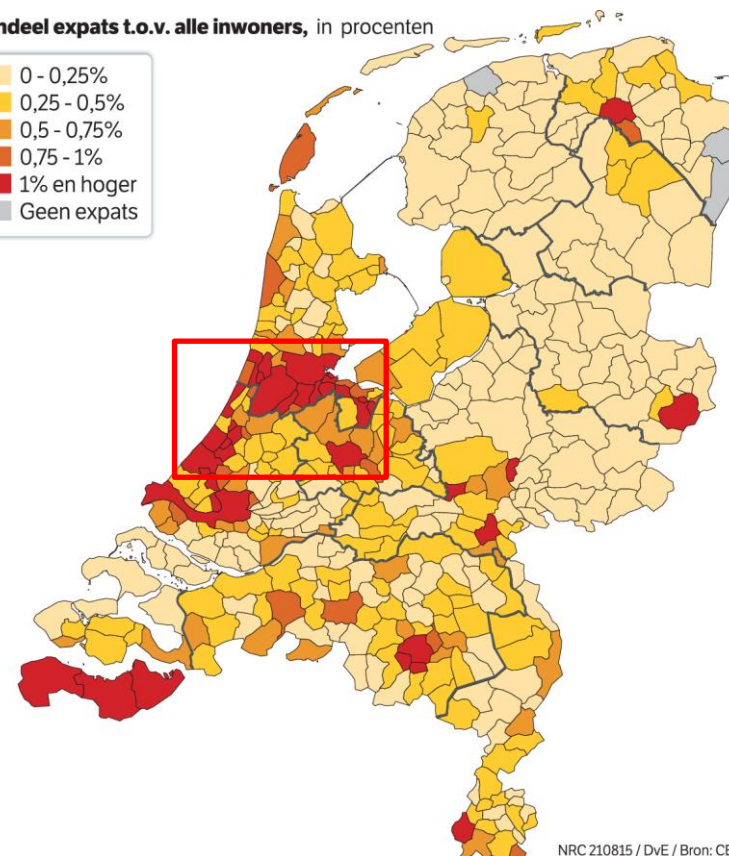
Bron: CBS.

CBS/meis2/2100

www.compendiumvoordeleefomgeving.nl

Aandeel hoogopgeleiden 2011

Aandeel expats t.o.v. alle inwoners, in procenten



0 - 0,25%

0,25 - 0,5%

0,5 - 0,75%

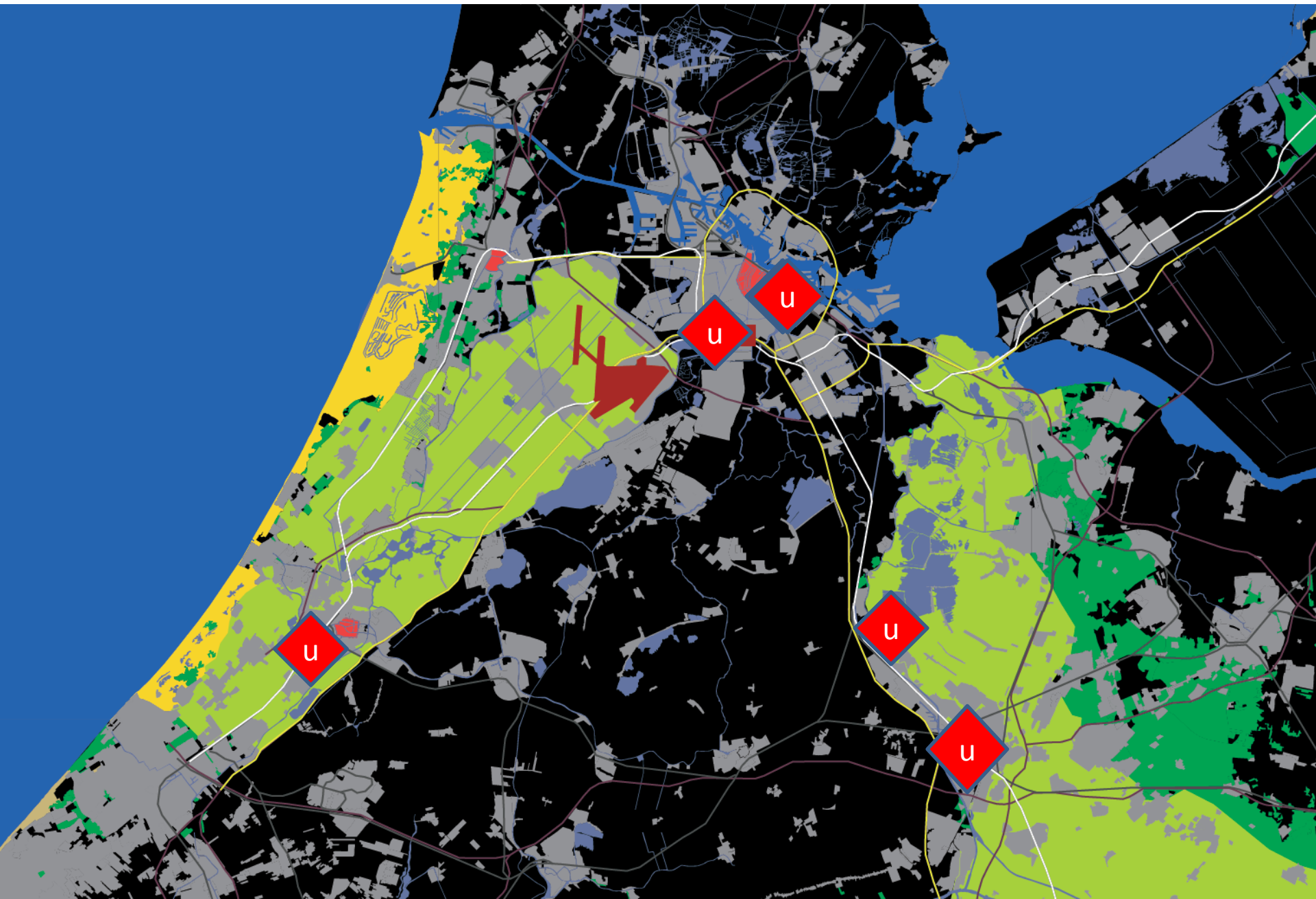
0,75 - 1%

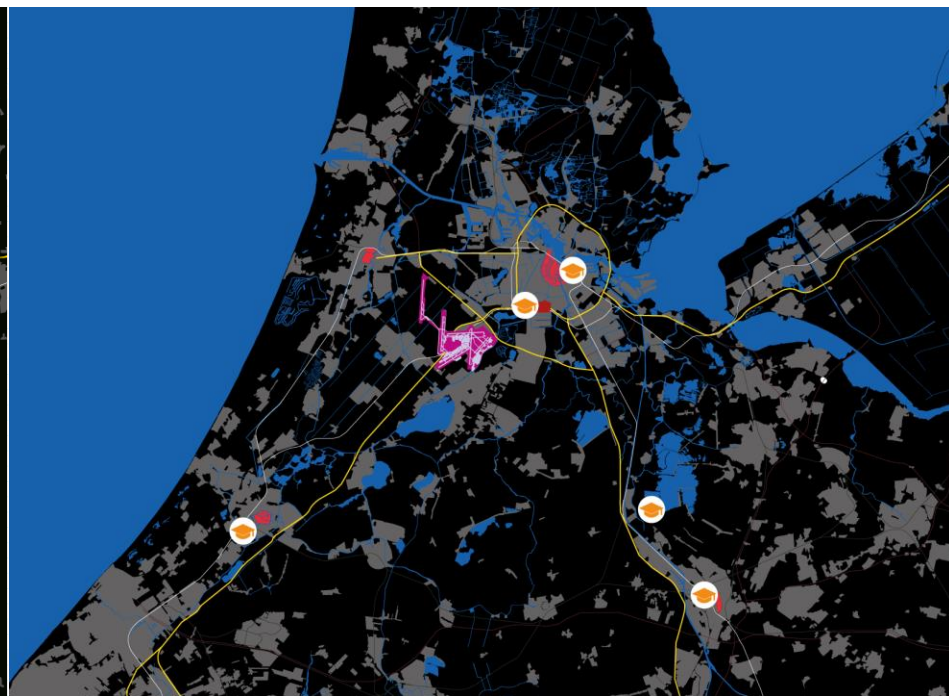
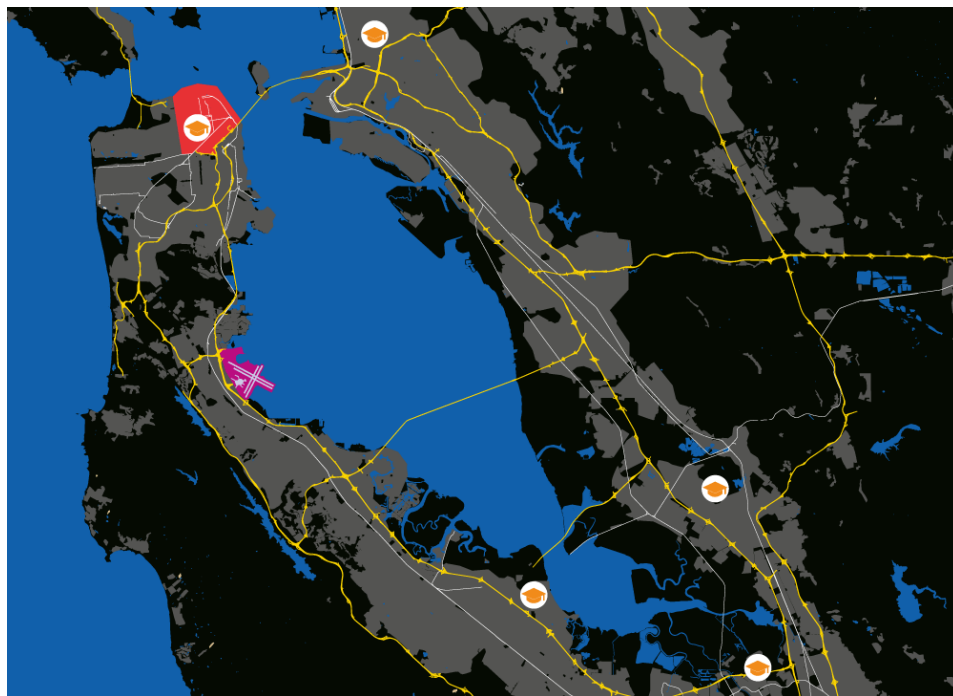
1% en hoger

Geen expats

NRC 210815 / DvE / Bron: CBS

Aandeel expats 2011

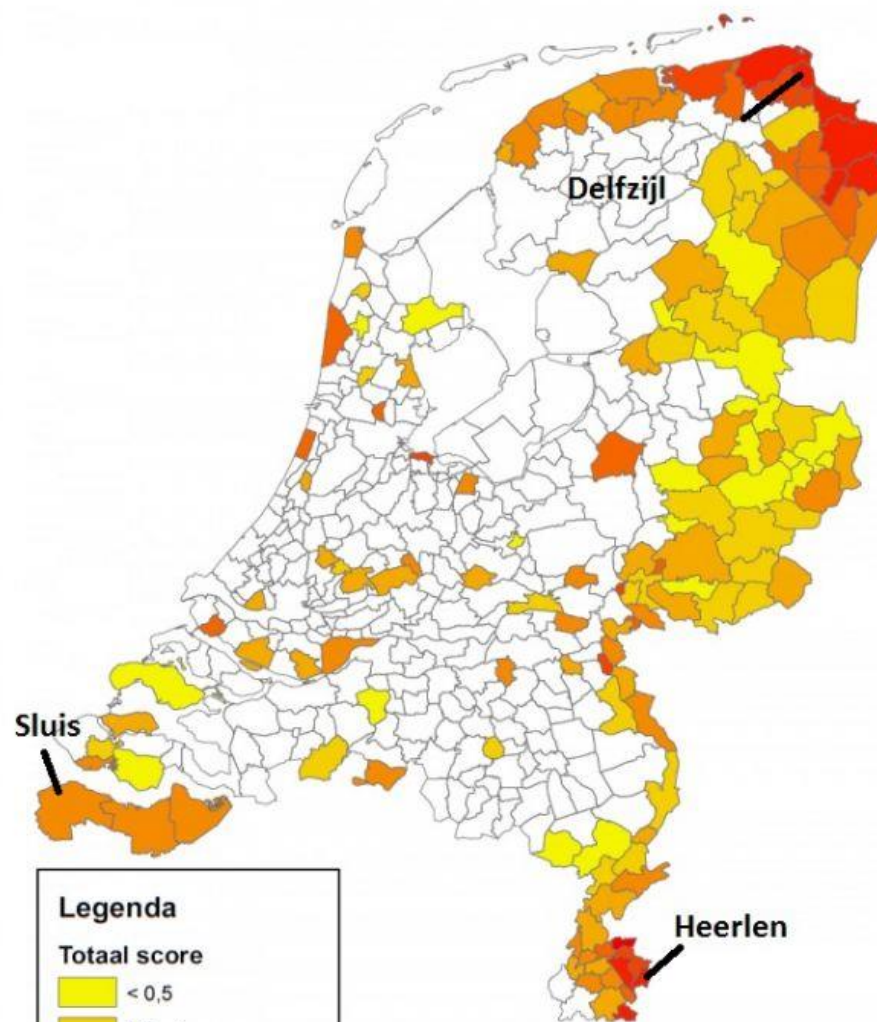




San Francisco Bay Area – Groot Amsterdam



Raaaf, Vacant NL, 2010



Legenda

Totaal score

< 0,5

0.5 - 1

1 - 1.5

1.5 - 2

2 - 2.5

2.5 - 3

3 - 3.5

> 3.5

Buiten krimp analyse





Wolf in Drenthe, 7 maart 2015





HET PALEIS IN DE VERBEELDING

Tekst Rudy Kousbroek Samenstelling Hans van der Meer & Fred Schmidt

HET PALEIS VOOR VOLKSVLIJT 1860 1961





Volksvlijt2016:

Een tentoonstelling over gezondheid, wonen, werken,
ondernemen, leren in de stad van de toekomst

Opening: 12 april 2016,
Openbare bibliotheek aan het Oosterdok, Amsterdam

