

FROM LOCAL TO GLOBAL

On Governance and Socio-Cultural Aspects of the Organization and Shape of Our World

**Netwerk Land & Water
Jubilee Symposium
'Globalisation & Landscape Change'**

***Hans van Ginkel
Geo-Sciences
Utrecht University***

Wageningen, May 18, 2011

Earth at Night



LIGHTS OF THE WORLD

With the help of satellite technology, we can see the Earth at night. The lights of the world are a mix of natural and man-made light. The most prominent lights are the cities of the world, which are visible from space. The lights of the world are a mix of natural and man-made light. The most prominent lights are the cities of the world, which are visible from space.

From Local to Global:

On Governance and Socio-cultural Aspects of the Organization and Shape of Our World

- 1. Processes Shaping Our World**
- 2. Interactions and Changing Landscapes**
- 3. Intercultural Dialogues and Identities**
- 4. An Emerging New World Order?**

CORE PROCESSES LEADING TO CHANGE

- 1. Globalization and Localization**
- 2. Development of the Knowledge Society**
- 3. Increasing importance of Ethics and Values**
- 4. Sustainable Development**
- 5. Fundamental Shifts in the Balance between
'public' and *'private'***

This means that without a strong international perspective universities cannot perform well

CHALLENGES OF OUR TIMES

- 1. World Governance, Peace and Security**
 - 2. Climate Change, Risk and Vulnerability**
 - 3. Globalization and Urbanization**
 - 4. Global Health**
 - 5. International Crime and Terrorism**
 - 6. Ethics, Values and Inter-Cultural Leadership**
 - 7. Fragile Eco-Systems, Access and Benefit-sharing**
- 

Processes Shaping Our World

Core Issues In our World

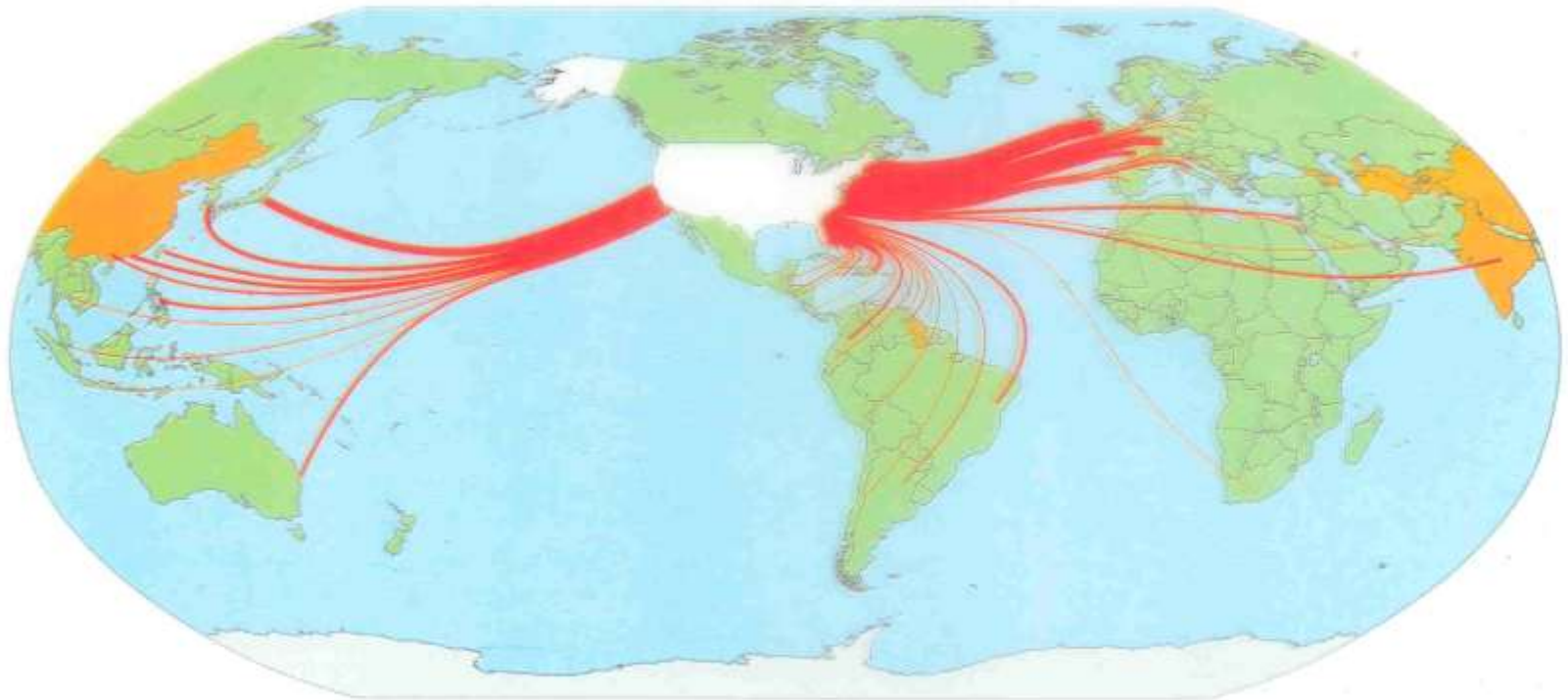
- Complexity
 - Diversity
 - Interconnectedness
 - Continuity
 - Nuance
- Scale levels
 - Nation State
 - Sovereignty
 - Democracy
 - Subsidiarity

Let us look at the Dimensions of Globalization

1. Geographic
 - Shrinking distances/world
 - Areas <--> Networks
 - Integration of scale levels
2. Economic
 - Free market/Social market-economy
 - Trade liberalization/Material cycles
 - Regional integration/or Commonwealth
3. Cultural
 - Dialogue <--> Clash of civilizations
 - Mass-culture <--> Elite culture
 - Homogenization <--> Cultural diversity
4. Social
 - Rise of the middle class
 - Equity / Equality
 - Democracy / Good governance
5. Political
 - Interconnectedness
 - Serve the People
 - Rule of law

From Absolute to Relative Distances

Speaking Volumes

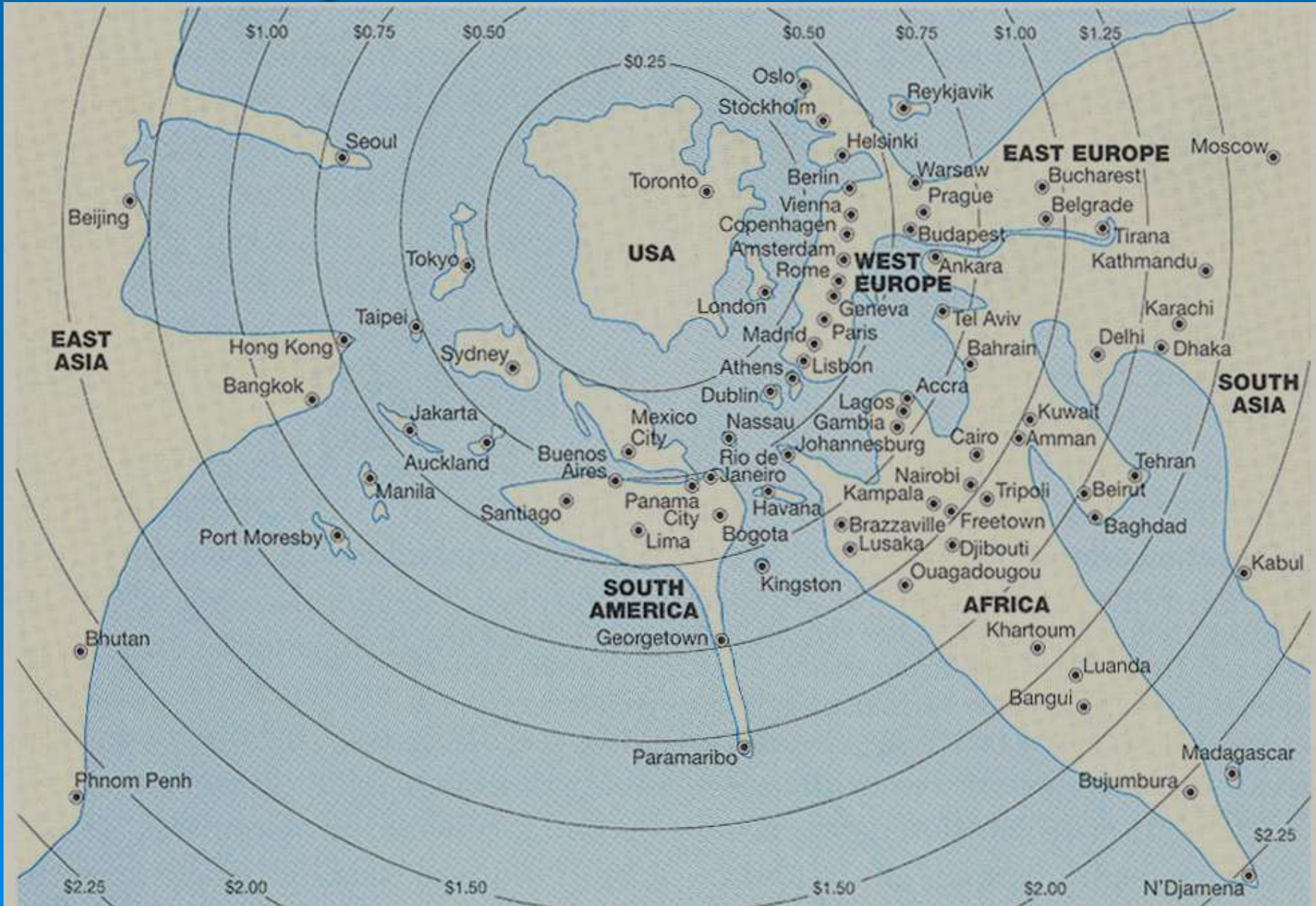


Key



The routes shown above, between the United States and other, noncontiguous nations, each had a 1995 volume of more than 80 million minutes of telephone traffic (MTTs).

Shrinking distances - relative distance



Shortening 'Business Cost Distances' in Asia



UNINTENDED CONSEQUENCES

Growing Gap in Per Capita Income

	<u>Richest Countries</u>	:	<u>Poorest Countries</u>
1960	30	:	1
1990	60	:	1
2000	80	:	1

UNINTENDED CONSEQUENCES

Differences in Life Expectancy

	Ten Richest <u>Countries</u>	Ten Poorest <u>Countries</u>
1998	78	45

	<u>Japan</u>	<u>Malawi</u>
2002	81	40

FAR FROM OUR LOFTY IDEALS

Kofi Annan, 2000

- Freedom From Fear
- Freedom from Want
- Sustaining the Future

∴ Globalization Benefiting All:
Millennium Development Goals

UNESCO/UNU, 2002

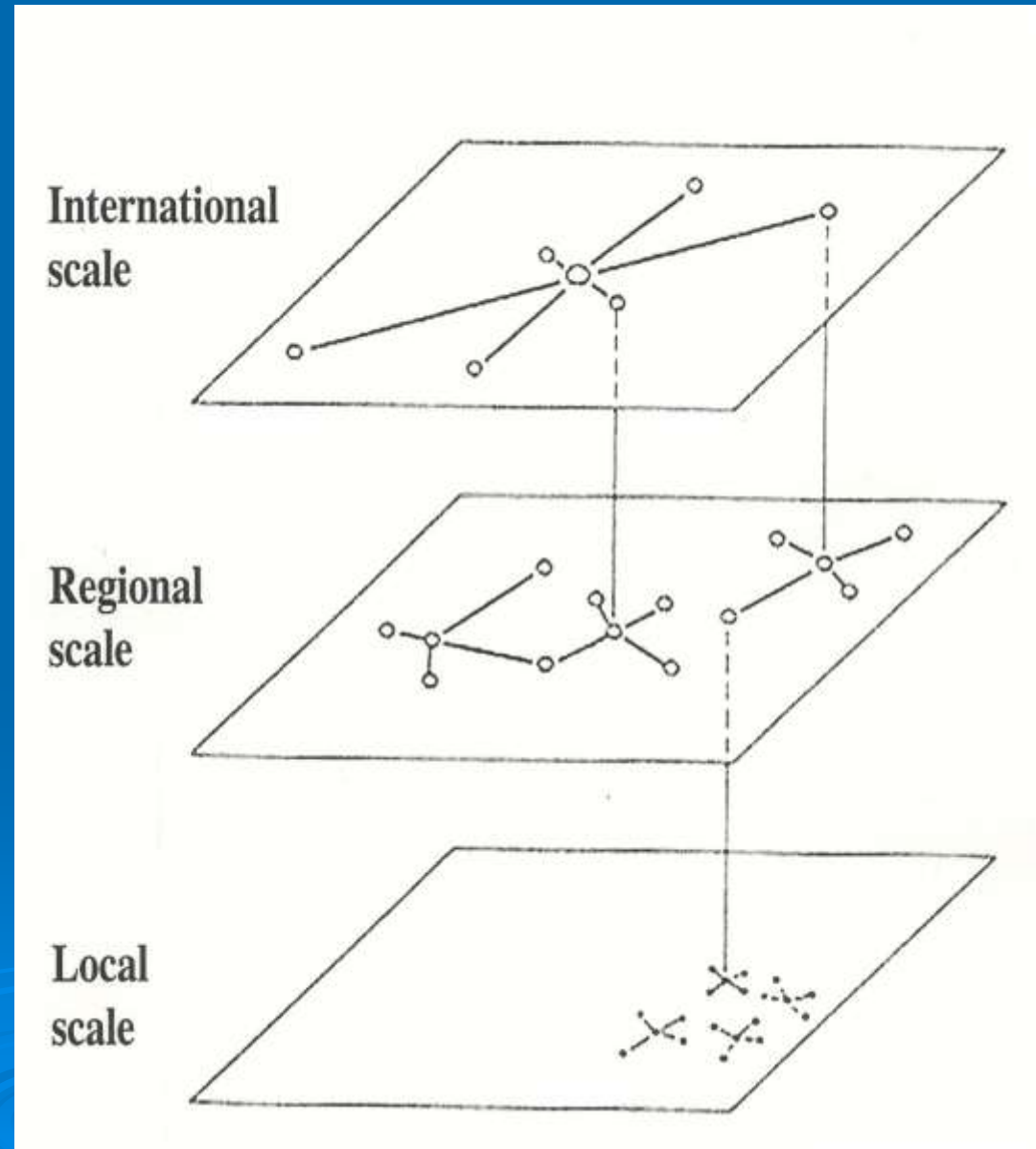
∴ Globalization With a Human Face

ILO, 2005

∴ A Fair Globalization – Creating Opportunities for All

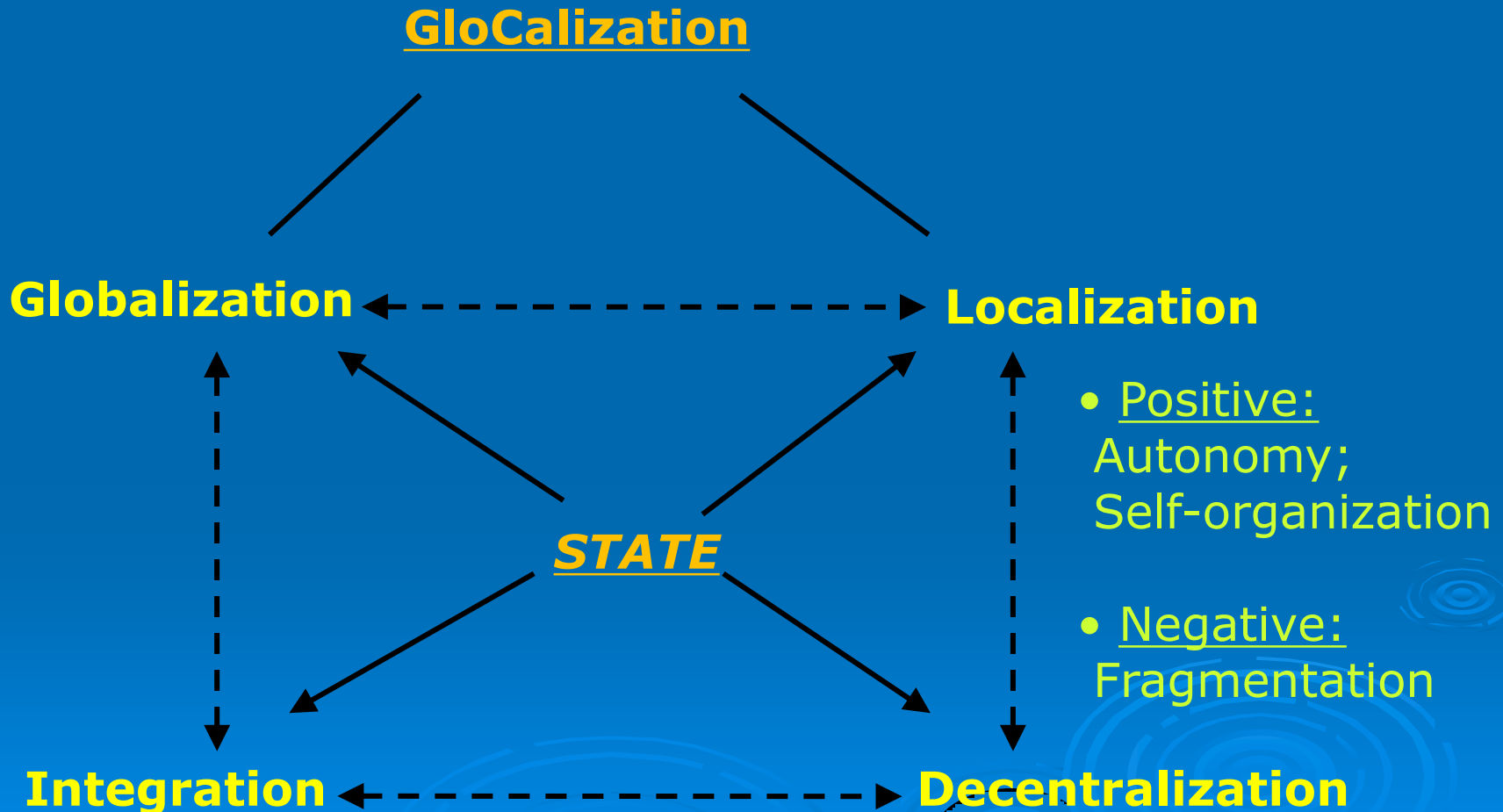
INTEGRATION OF SCALE LEVELS

- ***NETWORKING AS AN ADEQUATE RESPONSE AT ALL LEVELS:***
- ***GLOBAL, WORLDWIDE, EUROPEAN, NATIONAL, LOCAL.***



Consequences of GloCalization

Core Processes influencing Public Administration



The Creation of Italy and Europe



The Creation of Russia



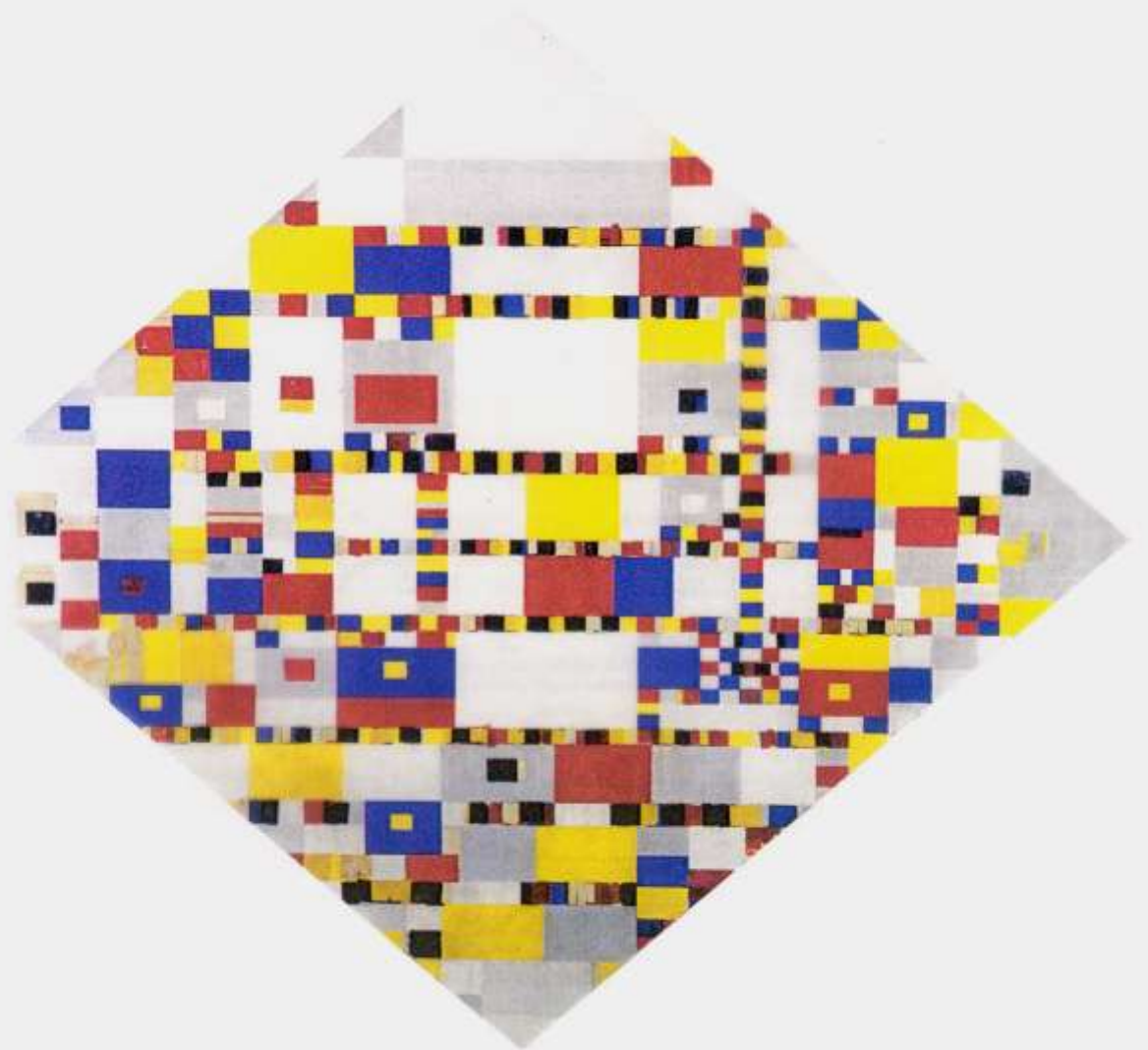
A Creative Initiative of F. Heineken



THE UNITED STATES OF EUROPE

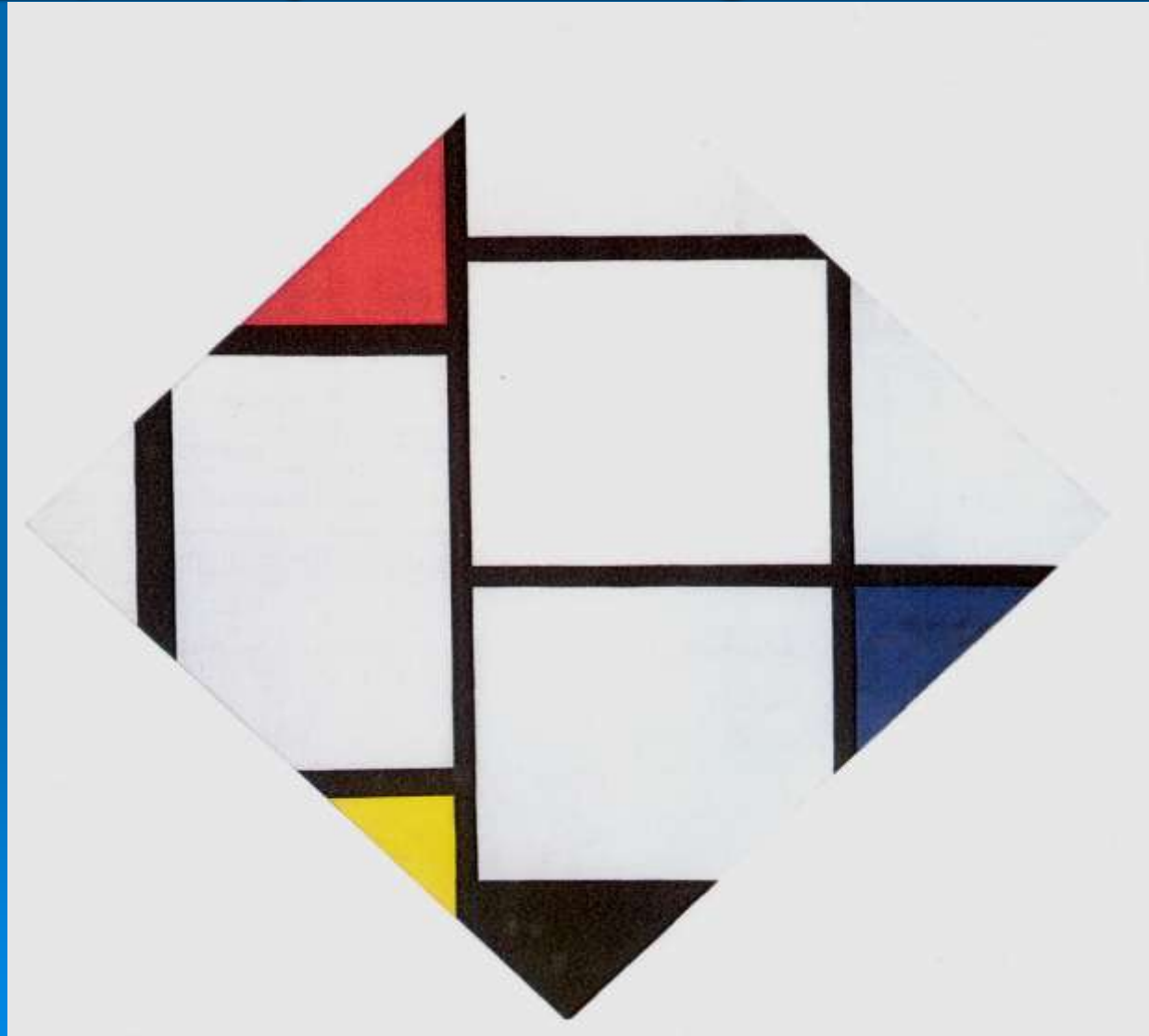
(A Eurotopia?)

New World Order: More Differentiation at the Lower Levels



Mondriaan

A New World Order: More Simplicity at the Higher Levels



Mondriaan

Nederland in de Wereld: “HOLLAND CITY” : één van de 25 in 2025

Top 25 Urban Areas In 2025

By GDP

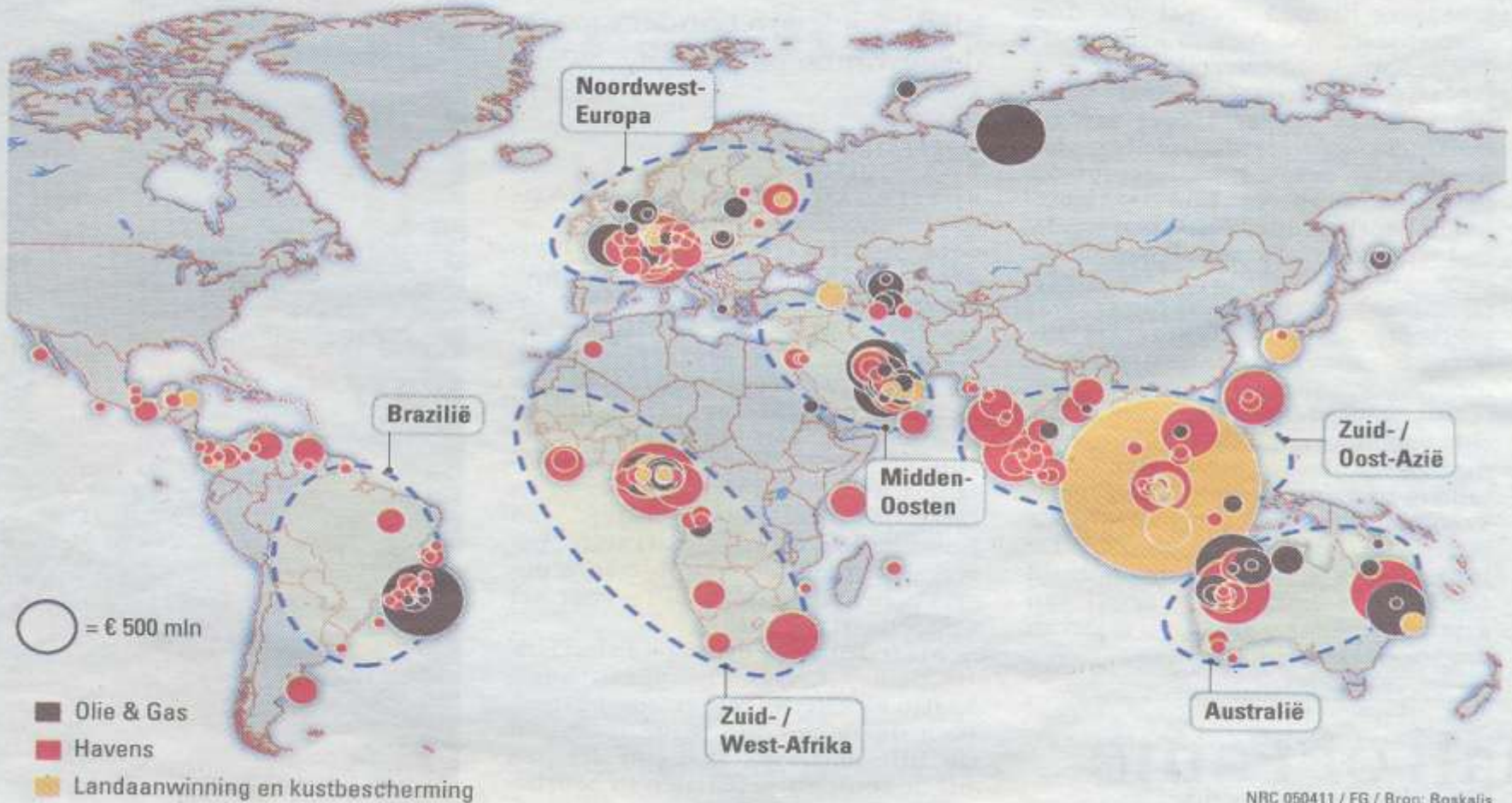


**McKinsey Global Institute:
‘Urban World – Mapping the Economic Power of Cities’**

The Worldwide Activities of Boskalis

Nederlandse thuishmarkt voor het mondiale Boskalis krimpt

Waarde potentiële orderportefeuille Boskalis



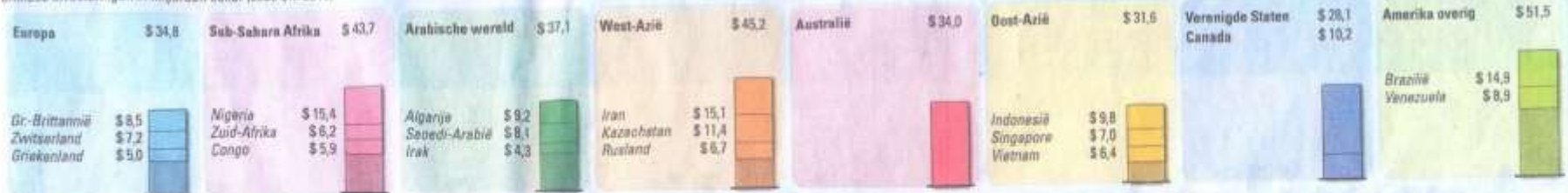
NRC 050411 / FG / Bron: Boskalis

Een Rijk Waarin de Zon Nooit Onder Gaat!!!

Chinese Activities Overseas

China verovert de wereld

Chinese investeringen in miljarden dollar (2005 t/m 2010)



Voorbeelden grote contracten en investeringen van Chinese bedrijven in het buitenland

Rederij COSCO betaalt 4,2 miljard dollar om de Griekse haven van Piraeus te leasen. De Griekse haven moet onder Chinese leiding Rotterdam voorbij streven als belangrijkste Europese haven. (juli 2010)

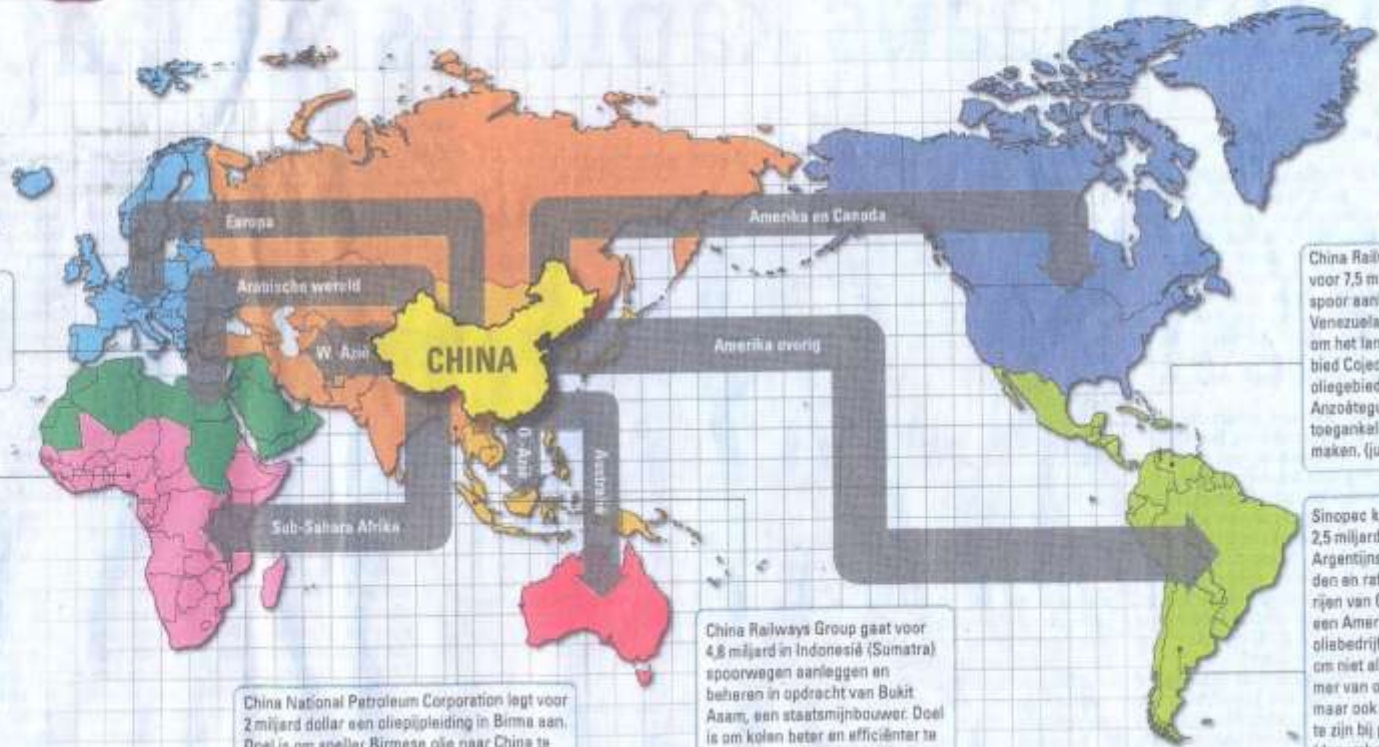
De China State Construction Engineering bouwt voor 8 miljard dollar voor Nigeria National Petroleum een raffinaderij in de buurt van Lagos. Het doel is om Nigeria, dat veel olie bezit, ook de capaciteit te geven olie zelf te gebruiken in plaats van alleen te exporteren. (juli 2010)

China National Petroleum Corporation legt voor 2 miljard dollar een oliepijpleiding in Birma aan. Doel is om sneller Birmees olie naar China te kunnen exporteren. (november 2009)

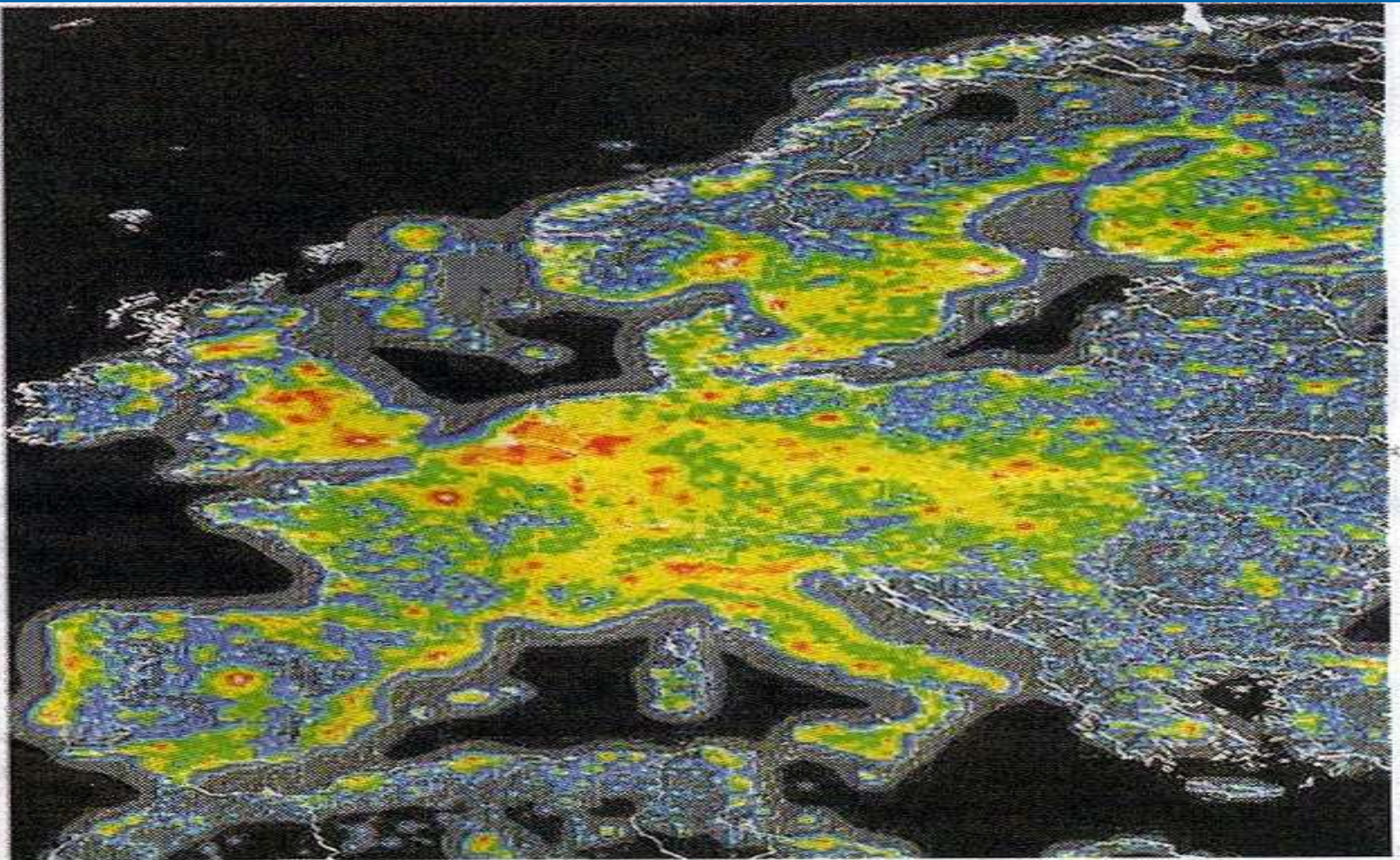
China Railways Group gaat voor 4,8 miljard in Indonesië (Sumatra) spoorwegen aanleggen en beheren in opdracht van Bukit Asam, een staatsmijnbouwer. Doel is om kolen beter en efficiënter te transporteren. (maart 2010)

China Railways gaat voor 7,5 miljard spoor aanleggen in Venezuela. Doel is om het landbouwgebied Cojedes en oliegebied Anzoátegui beter toegankelijk te maken. (juli 2009)

Sinopec koopt voor 2,5 miljard dollar de Argentijnse olievalden en raffinaderijen van Occidental, een Amerikaans oliebedrijf. Doel is om niet alleen afnemer van olie te zijn, maar ook betrokken te zijn bij productie. (december 2010)



Concurrentie Neemt Toe: en zij zijn met héél veel!!




De helderheid van de hemel boven Europa, gezien vanaf het aardoppervlak. De oranje kleur geeft globaal de gebieden aan waar 's nachts vanaf zeeniveau de melkweg niet meer of nauwelijks is te zien. In de rode gebieden ziet men hooguit nog een honderdtal sterren. Als de groei van de hemelwaartse lichtstroom in hetzelfde tempo blijft doorgaan, zal in het jaar 2025 in een land als Italië vrijwel nergens meer de melkweg te zien zijn. (Foto Royal Astronomical Society)

Interactions and Environmental Impacts: Burning Vegetation in the Oil Production Areas



False-color image of Eurasia at night, based on satellite data from the DMSP spacecraft (yellow, city lights; red, flares from oil production areas; purple, burning vegetation).

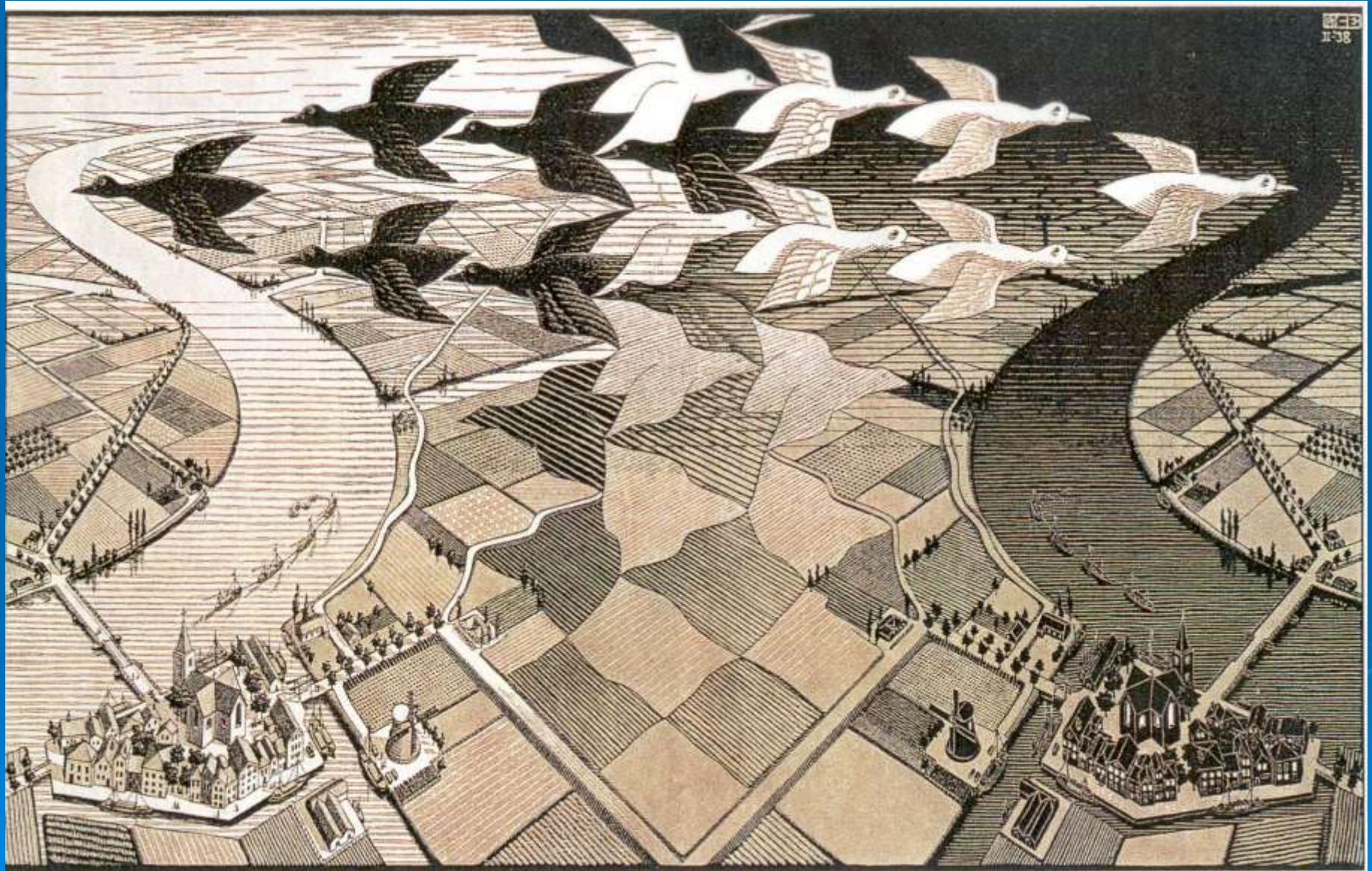
MEDIA HYPES IN THE GLOBAL VILLAGE

- 1. Think Global, Act Local–
but the opposite is equally true:
Think Local, Act Global***
 - 2. ‘Early Warning Systems’,
just after the Tsunami in the Indian Ocean!!***
 - 3. ‘Small is Beautiful’***
 - 4. ‘Donor Coordination’, etc. etc.***
- 

***Increasing
Importance
of Ethics
and Values***



Intercultural Dialogues and Identities



Intercultural Dialogues and Identities

Problems

1.
 - **What you see, may not be the reality; and**
 - **the reality, you may not be able to see.**

2.
 - **The ‘reality’ you see is the interpretation you have learnt.**
 - **What you have not learnt to interpret, you cannot see.**

NB.

principle of reasonable doubt must be upheld!!

Creating a Capacity for Understanding

Pre-requisites for Understanding

- **Knowledge;**
- **Respect;**
- **Knowing one's own cultural norms;**
- **Search for unity in diversity;**
- **Inclusiveness; and**
- **Readiness to transform**

Dialogue to Educate for Broader Understanding

Debate

versus

Dialogue

1. Argument over

Argument

2. To win

3. To speak

1. Discourse

(to explain)

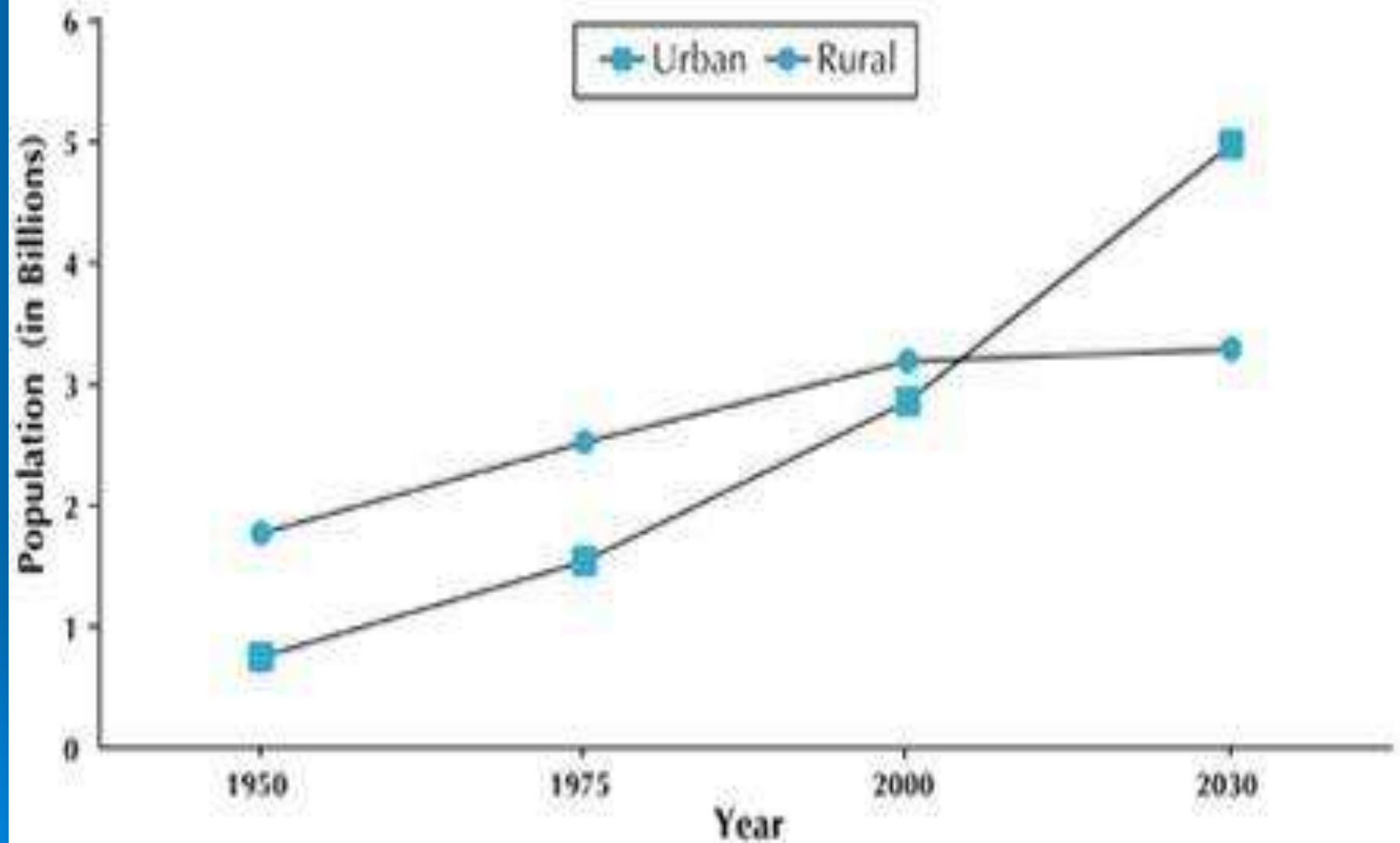
2. To understand

3. To listen

□ Only dialogue leads to understanding, e.g. on the balance between *'public'* and *'private'* or cultural differences.

World's Urban Population Growing Rapidly

Estimated and Projected World Urban and Rural Populations, 1950–2030



Source: United Nations, 2002 (131)

Population Reports

OUR URBAN FUTURE

- **In 2008 more than half of the world's population was living in cities**
- **In Japan already more than 90%**
- **In Latin America nearly 80%**
- **In Indonesia in 2020 more than 60%**
- **In Africa in 2030 more than 50%**

A TIME-BOMB TICKING

- **Existing Infra-structure (water and sanitation, roads and public transport, housing, electricity, etc.) is already grossly inadequate and aging rapidly;**
- **Whereas the demand on such infra-structure is growing enormously with the expected fast population increase.**
- **And Climate and Environmental Change add new challenges, in particular for Developing Countries given their pace of population and economic development.**

OUR URBAN FUTURE

WHY will our future be urban?

1. Employment will predominantly be *non-agricultural*;
2. *Average* incomes outside the agricultural sector are structurally higher;
3. Urban milieus do offer more and a greater diversity of opportunities.

After All: People do “choose with their feet”!

!!! *THUS: we must integrate the city in the rural areas ; and the rural areas in the urban conglomerations!!!*

OUR URBAN FUTURE

Labour Force working in Agriculture

1. United States < 2%
2. Netherlands < 3%
3. Japan < 8%
(half of which > 55 jaar!)

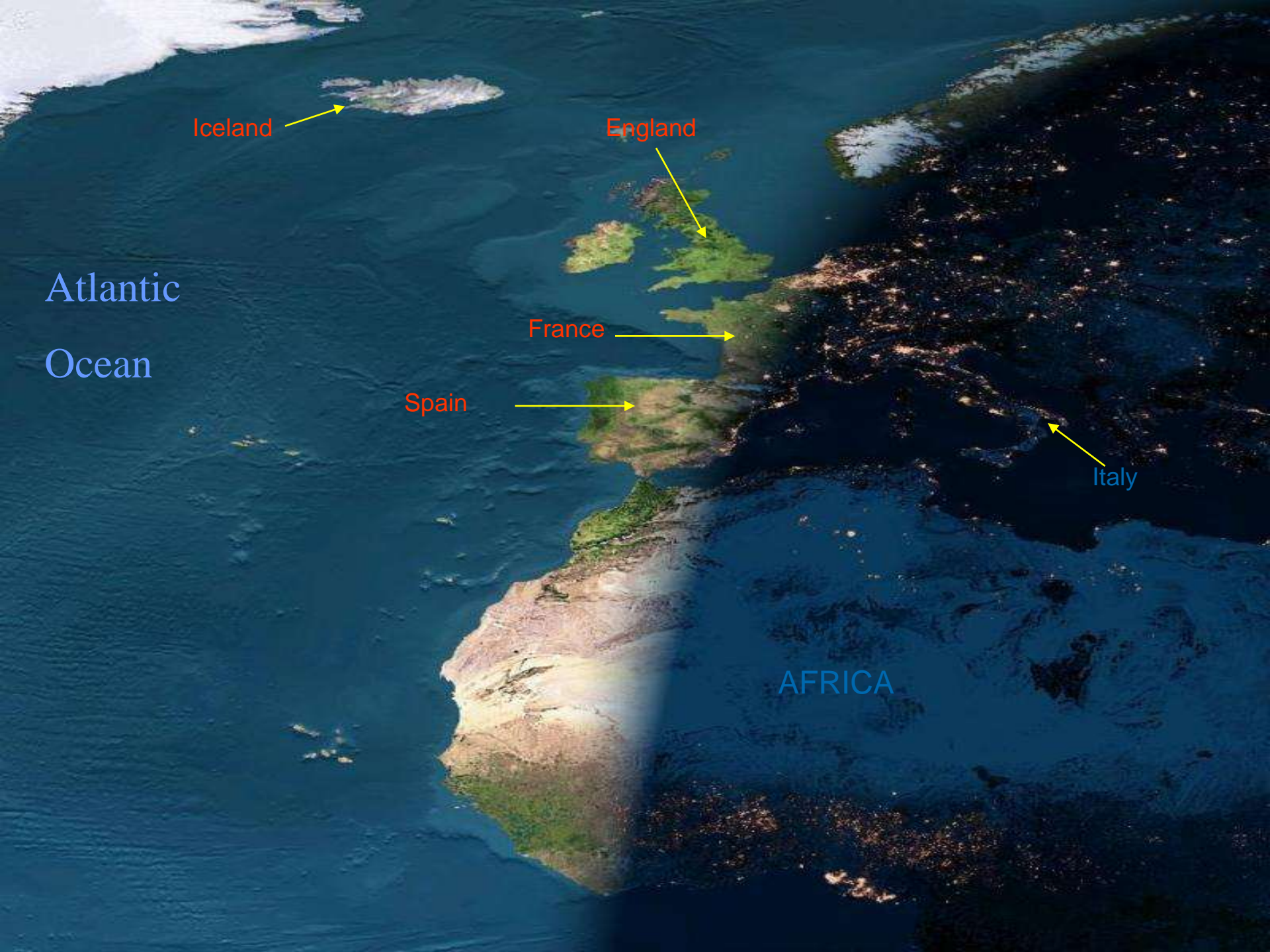
SOUND URBANIZATION CRUCIAL FOR SOUND DEVELOPMENT

We can still act decisively, however:

- ***THERE SEEMS TO EXIST A WIDESPREAD DENIAL OR GROSS UNDER-ESTIMATION OF THE IMPORTANCE OF THIS ISSUE;***
- ***EVEN THE ACADEMIC COMMUNITY IS NOT TRYING WELL TO ADDRESS URBANIZATION WITHIN AN INTEGRATED APPROACH OF DEVELOPMENT;***
- ***EVEN THE TERMS WE USE AND THE CONCEPTS AND IMAGES WE HAVE TO ADDRESS URBANIZATION LAG FAR BEHIND THE REALITY.***

WHAT A GREAT SPECTACLE !!!

- **LET US LOOK AT URBANIZATION FROM A DIFFERENT PERSPECTIVE!**
- **FROM AN ORBITING SATELLITE:**
- **THESE PICTURES WERE TAKEN ON A CLOUDLESS DAY!**



Iceland

England

France

Spain

Italy

Atlantic
Ocean

AFRICA



Brasília

Goiânia

Uberlândia

Fortaleza

Recife

Salvador

Belo Horizonte

Rio de Janeiro

Grande São Paulo

Florianópolis



Thunder Bay

Toronto

Ottawa

Saguenay

Sept-Iles

St. John

Québec

Montréal

Detroit

These lights are Boston, New York, Philadelphia and Washington.

Dallas

Houston

Miami

Puerto Rico

Mexico City

Havana

Port-au-Prince

It's still daylight in California

RE-THINK: WE NEED A NEW APPROACH

CRUCIAL QUESTION: HOW TO MOVE FROM A CULTURE OF RE-ACTION TO A CULTURE OF PREVENTION???

- 1. We must acknowledge that the future of humankind will be urban;**
- 2. That cities are not *inherently the problem* to the sustainability conundrum but rather the solution;**
- 3. That to achieve a sustainable urban future we need to find out *what kind of urban places* we should build? Where? And How?**
- 4. And there are problems to be solved: transport, water, energy, waste, 'heat island' effects, etc.**

Environmental Impacts: Mexico City and its Disappearing Water

Munich Re, Megacities – Megarisks

Natural catastrophes in megacities

Figure 8 Historical development of Mexico City



Lake Texcoco
Settlement of Mexico City



Environmental Risks: Caracas – Houses built on a Risky Slope



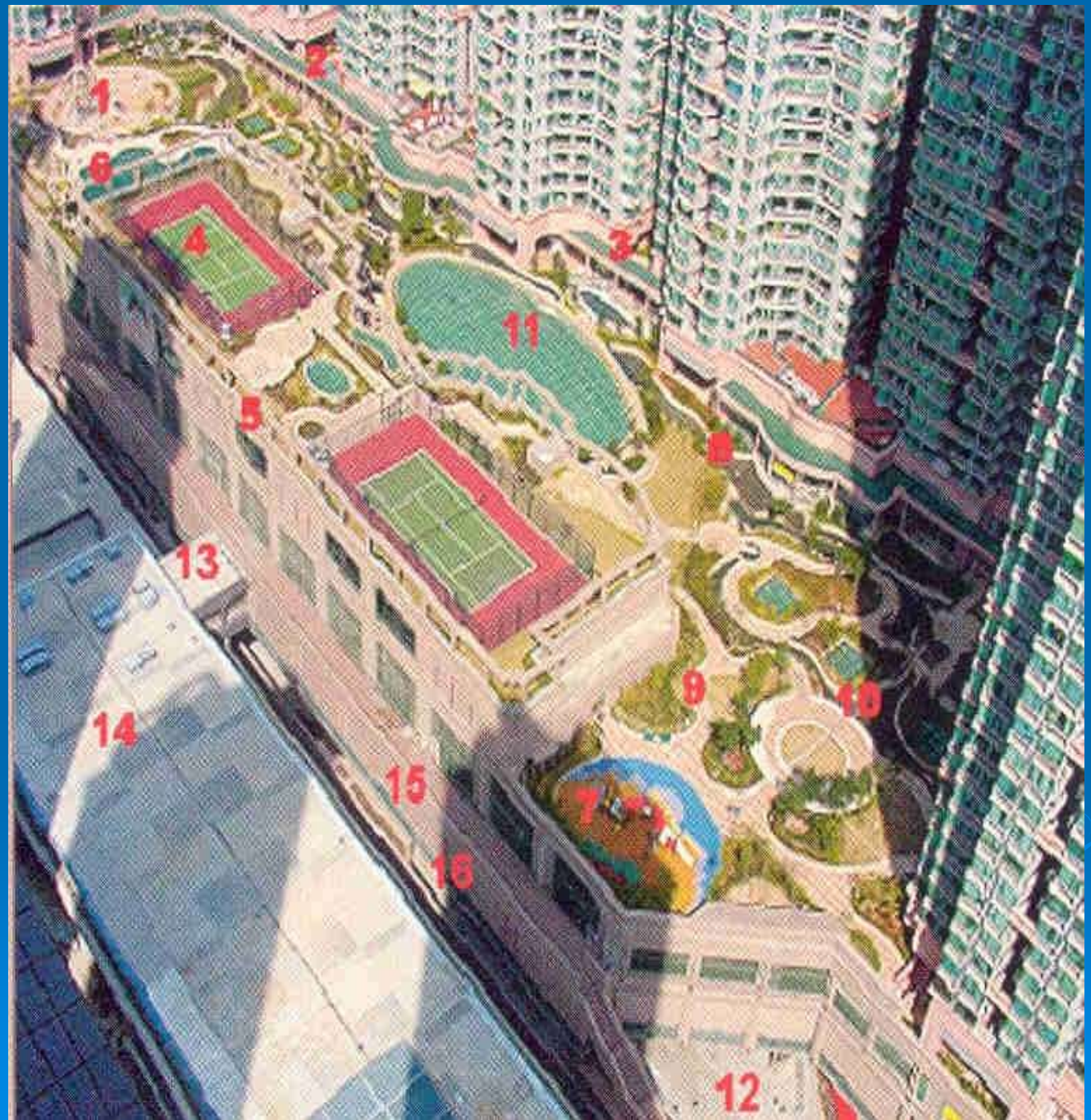
Environmental Risks:

‘Borrowed Spaces’ in Hong Kong

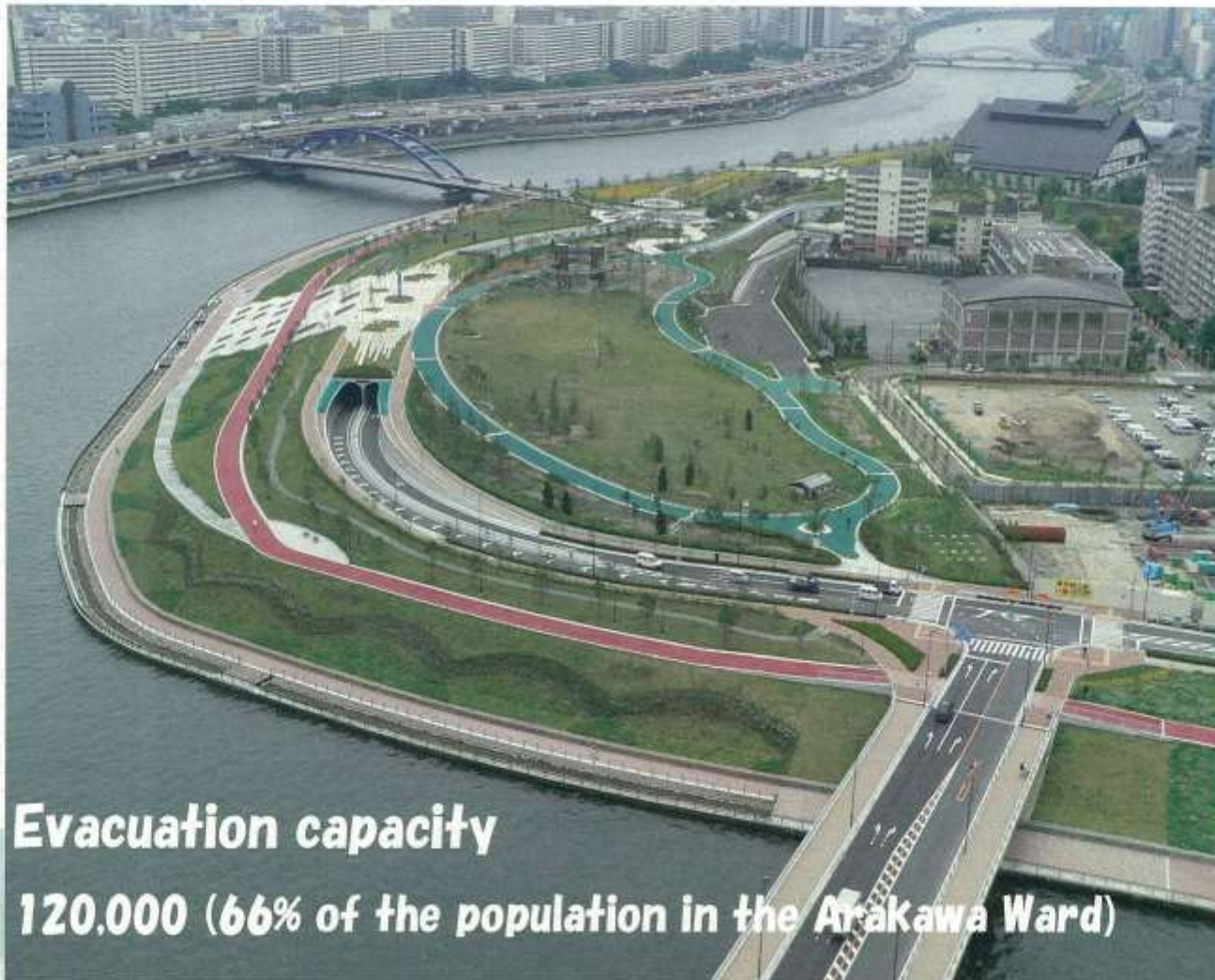


*Possible
Solutions:*

**Metro City
in Hong
Kong**



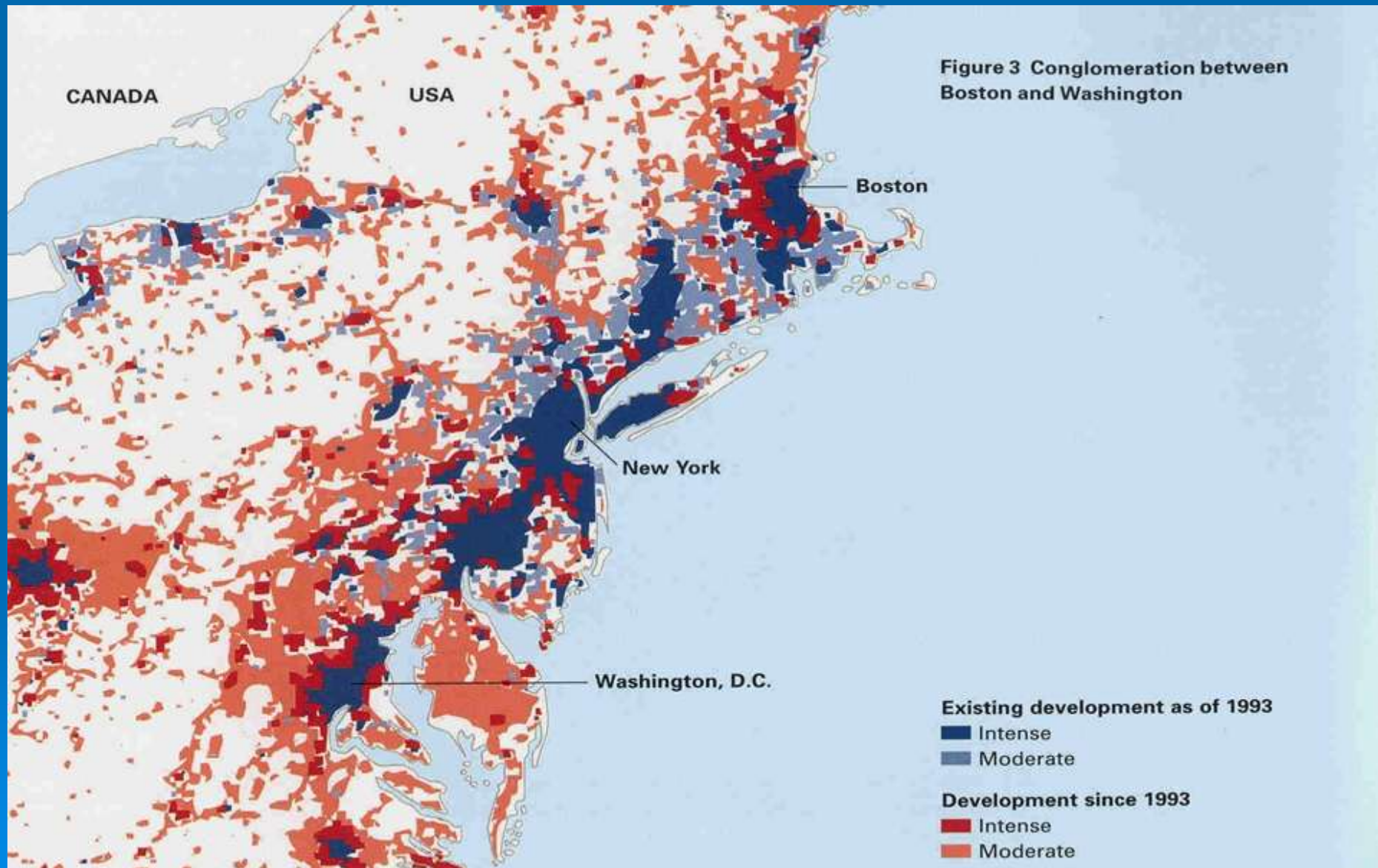
Vast Evacuation Site on a Super Levee in the Shirahige West District



Evacuation capacity

120,000 (66% of the population in the Arakawa Ward)

It is all about Distribution! e.g. The Megalopolis: An Urbanized Area with a Nebulous Structure!

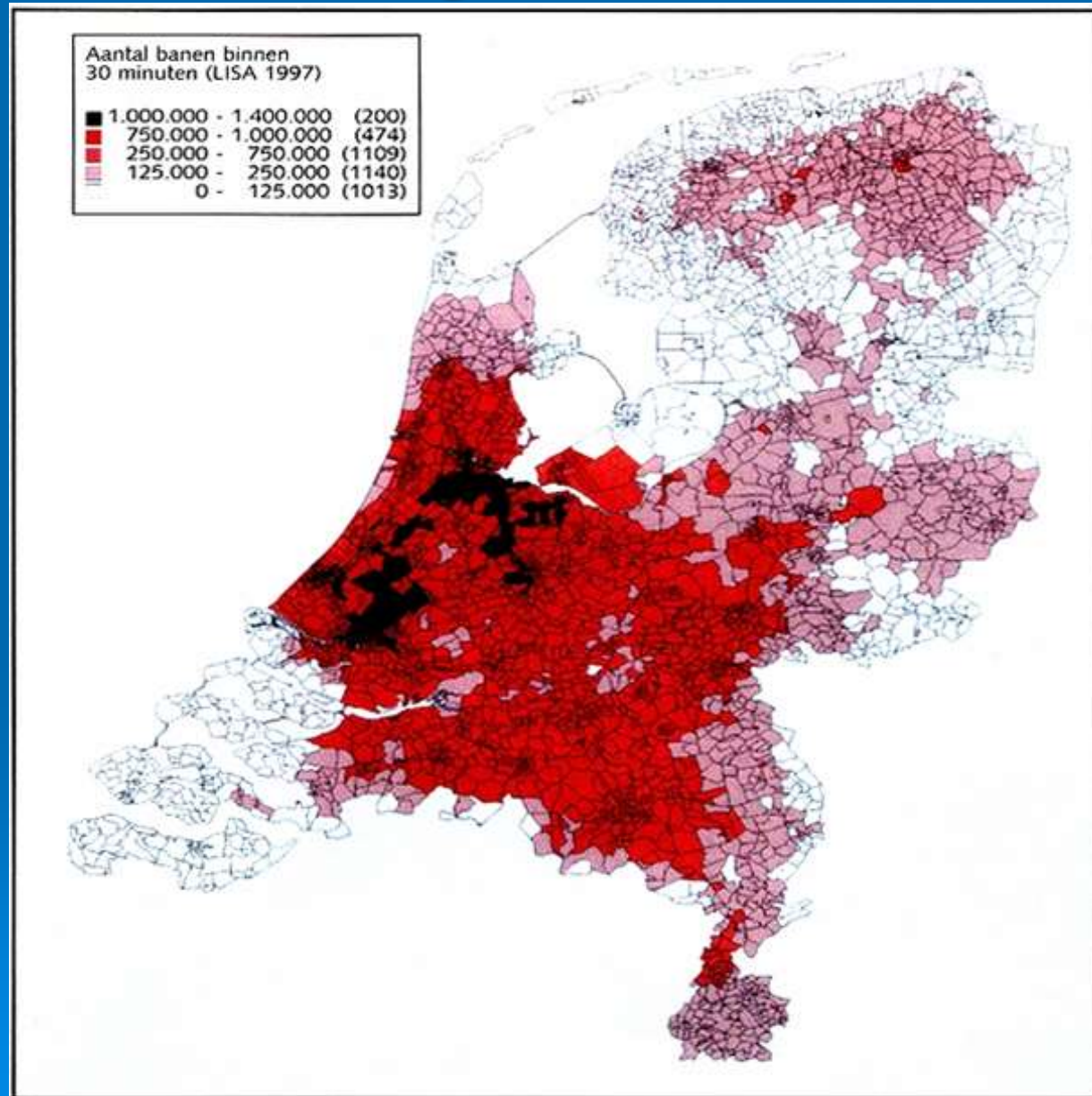


Distribution of Population and Activities: From Randstad to Central Urban Ring

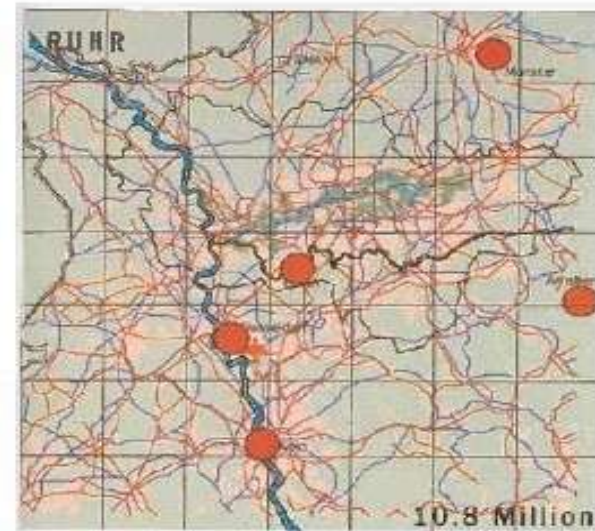
“HOLLAND”
CITY



Holland City: Access to Jobs

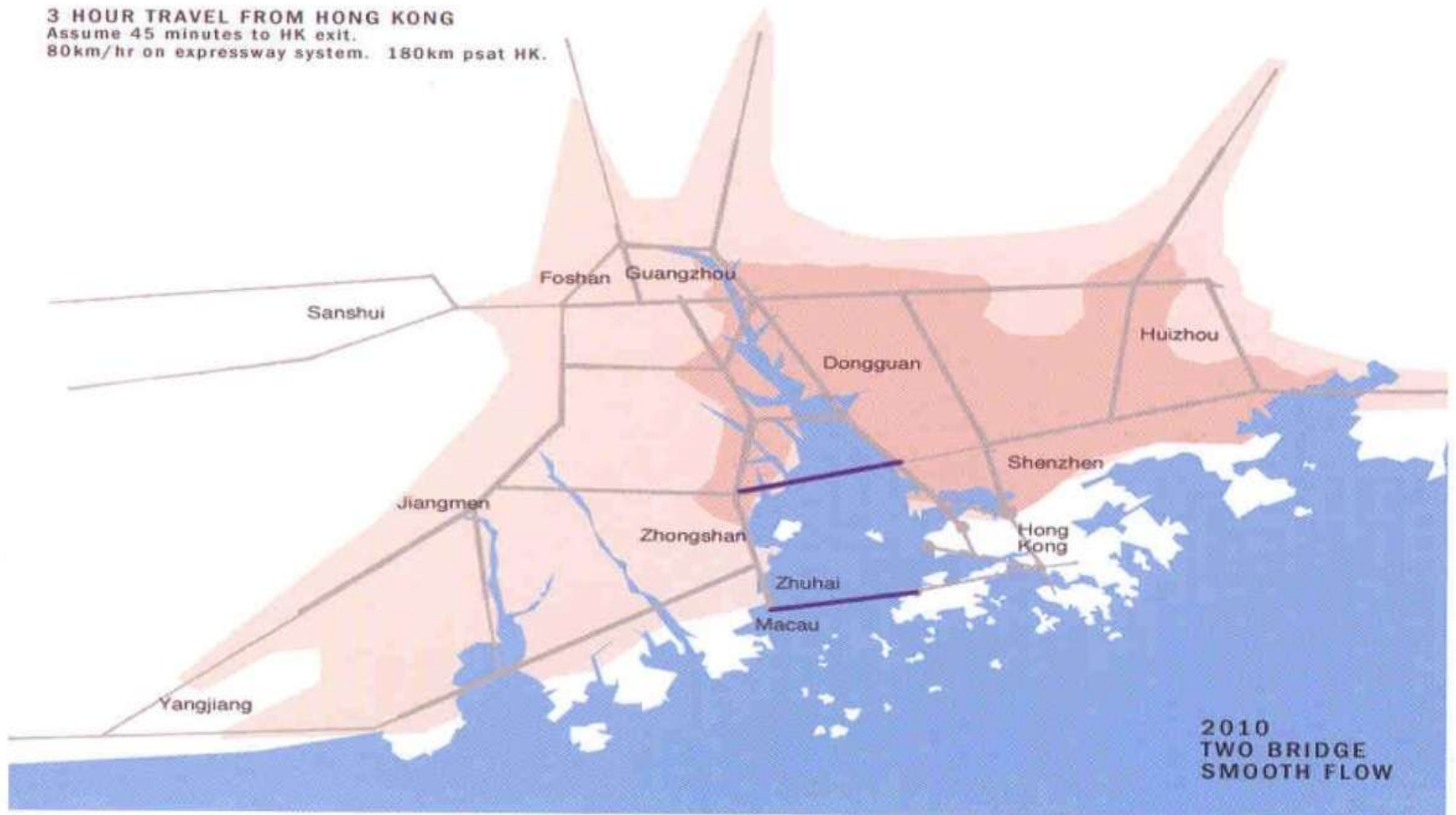


Different Urban Structures Compared



New Infrastructure Creating New Opportunities in Pearl City

3 HOUR TRAVEL FROM HONG KONG
Assume 45 minutes to HK exit.
80km/hr on expressway system. 180km psat HK.



Pearl City: China's Main Megacity

Superstad China

- huidige steden
- nieuwe superstad

Bron: The Telegraph



The Topography of the 'Polders' in the 'Green Heart' of the Randstad visualized

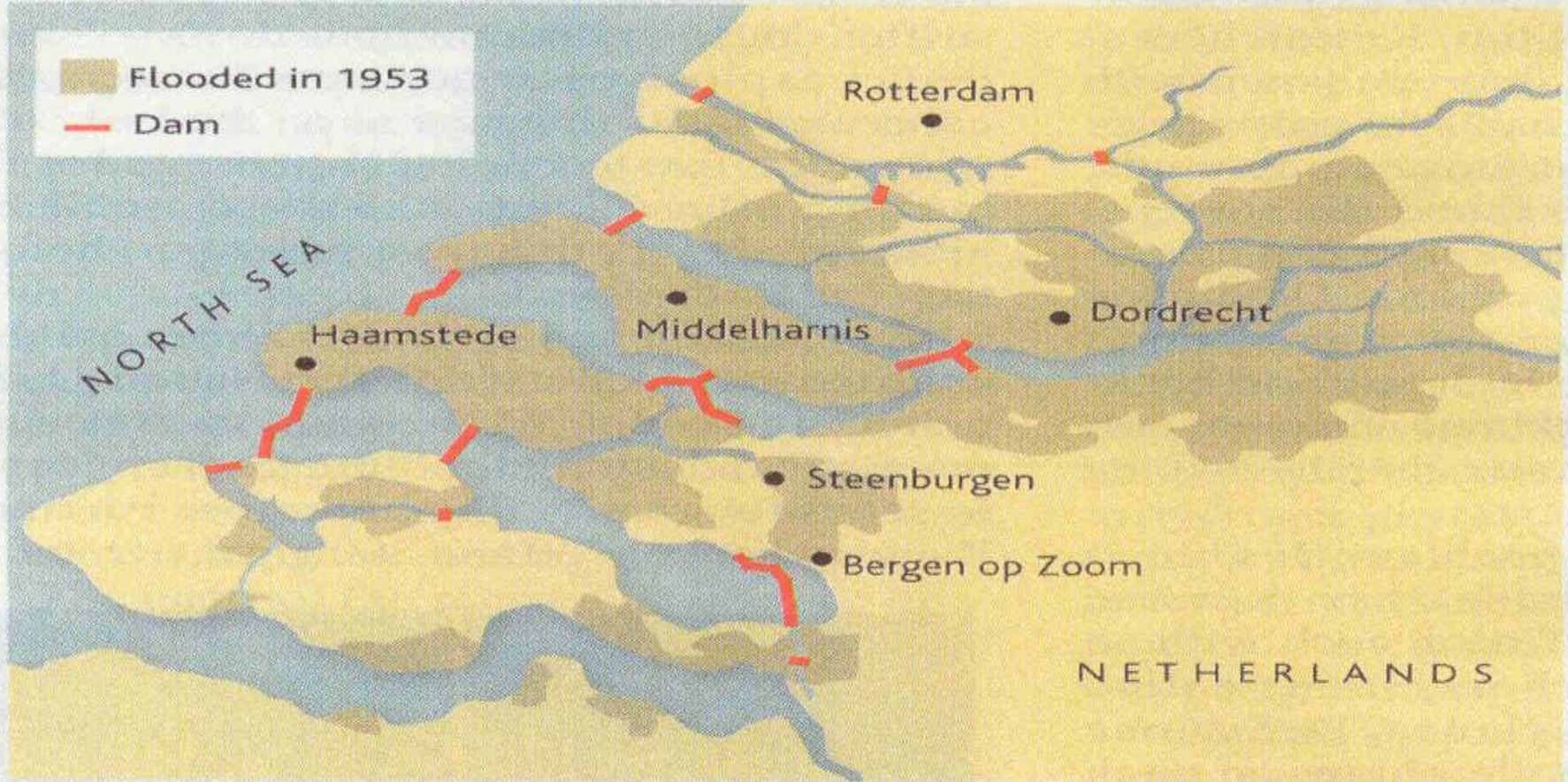
Tijdschrift Kon. Ned. Aardr. Gen. 1938. — Kaart N°. XI (5)

La lutte contre les eaux et la mise en culture
Dr. J. B. L. BOS et Dr. H. VAN VELTHOVEN



Le pays poldérien entre Rotterdam et Haarlem avec les grands assèchements. D'après un dessin de M. A. van der Zweep.

Delta Works: New Infrastructure Creating New Opportunities



Safety first. The Delta Works, a response to the 1953 flood in the Netherlands, consists of a series of dams including a storm surge barrier across the Eastern Scheldt (*above, right*).

'Glass City' in The Netherlands



An Emerging New World Order?

- 1. Global system/World Governance System*
- 2. World regions: EU, AU, Mercosur, NAFTA, ASEAN, etc.*
- 3. Worldwide Territorial Conglomerates*
- 4. States (sovereignty? Decentralized and delegated authority!)*
- 5. Subnational regions, incl. large urban regions!*
- 6. Local authorities /Municipalities*

The Organization of Our World

Many
Doors
Many
Windows:

Many
Opportu-
nities

