

# **Weltweite Verstaedterung Chancen und Herausforderungen**

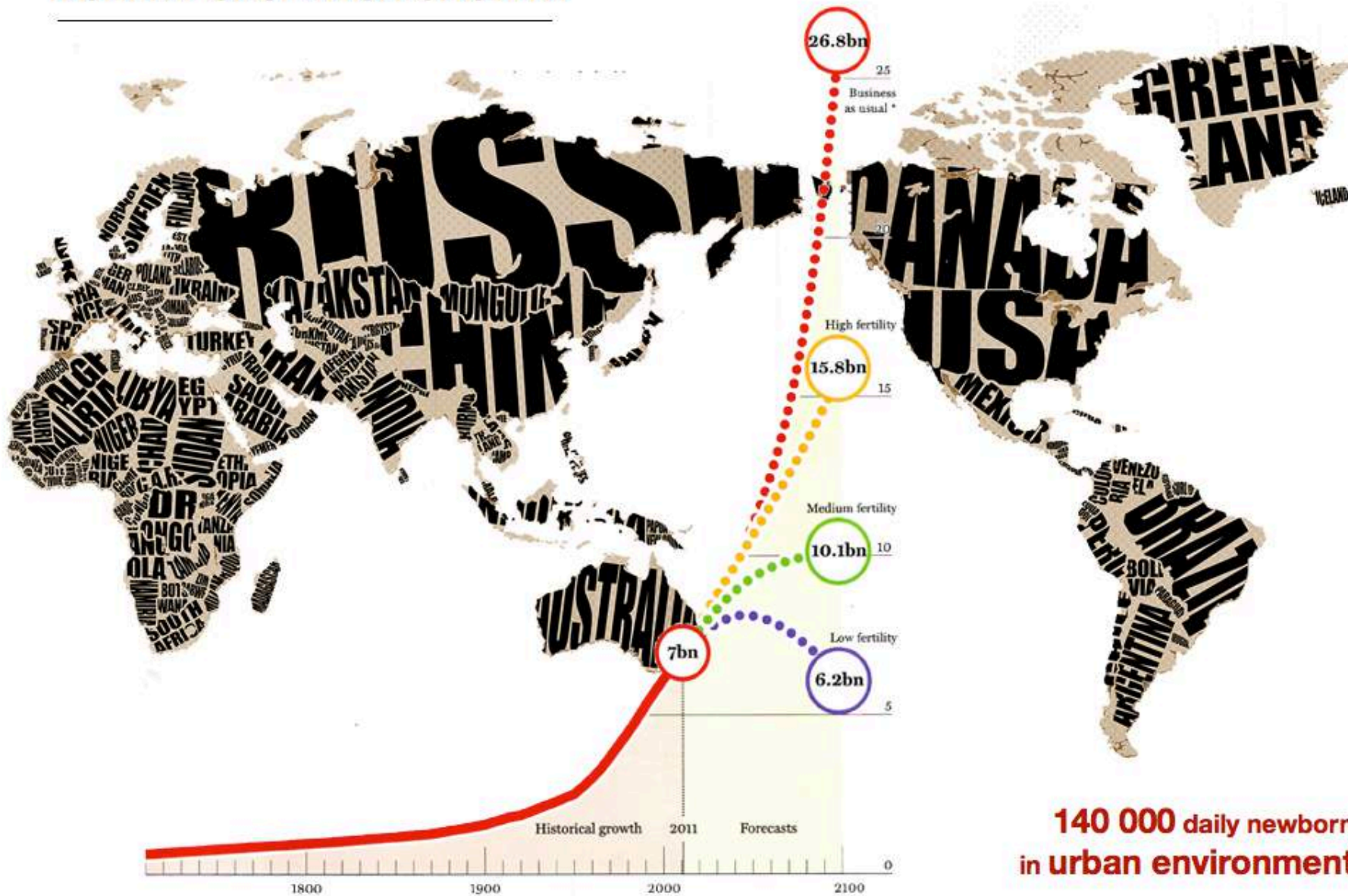
**Michael Schindhelm**

Deutsche Bank Forum, Berlin  
November 7, 2014



# WORLD POPULATION GROWTH

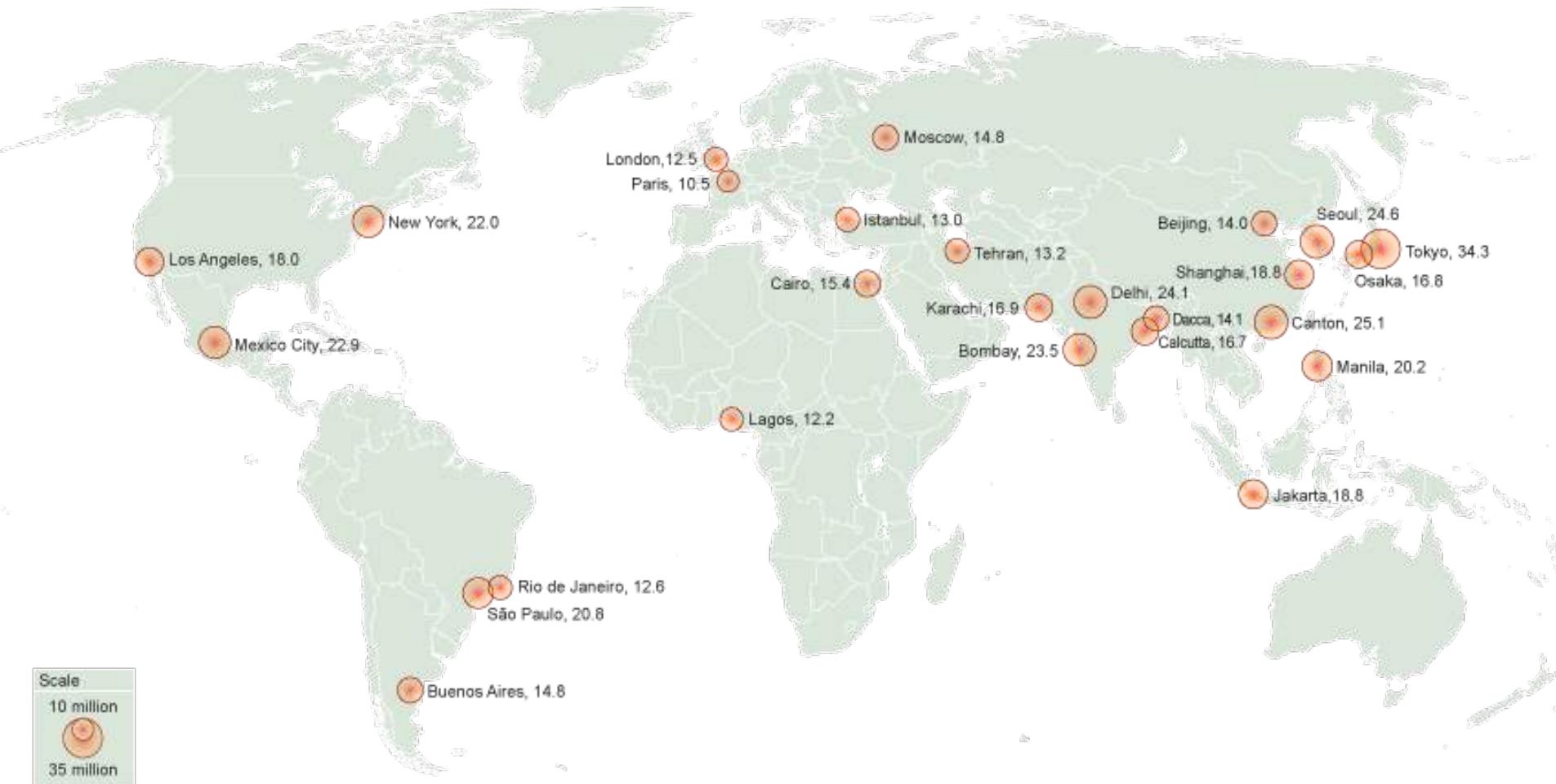
Projections for the world's population by the end of this century



**140 000 daily newborn  
in urban environment**



## World Megacities, 2011



Source: Th. Brinkhoff: *The Principal Agglomerations of the World*, 2011-01-01











20 million

This is an aerial photograph of a sprawling, densely populated urban area, likely a large metropolitan region. The image shows a vast expanse of tightly packed buildings, streets, and infrastructure, extending far into the distance under a hazy sky. The text '20 million' is superimposed in a large, orange, 3D-style font across the middle of the image, indicating the population size of the area shown.







# China and India Rising

Why the Rise of China and India is Inevitable Jagdish N. Sheth



# China's Rise

## Stock of Inward Foreign Direct Investment, 1980-2003

China has risen from negligible in 1980 to a 6-percent share. ... could be in second place by 2020.

Trillion US \$

2.0

1.5

1.0

.5

1980 1985 1990 1995 2000 2003

US

UK

Germany

China

France

Source: UN, World Investment Report 2004.

## Share of World Manufacturing, 1980-2003

It could easily surpass Japan in a few years.

Percent

35

30

25

20

15

10

5

1980 85 90 95 2000 03

US

Japan

China

Germany

Source: Global Insight.

## Share of World's Exports, 1980-2003

It should also overtake Japan in trade ...

Percent

20

15

10

5

1980 85 90 95 2000 03

US

Germany

Japan

China

Source: Global Insight.

## Growth in Demand for Oil, 2000-2020

... and nearly match the US as a dominant driver of additional oil demand.

Million barrels/day

8

7

6

5

4

3

2

1

US

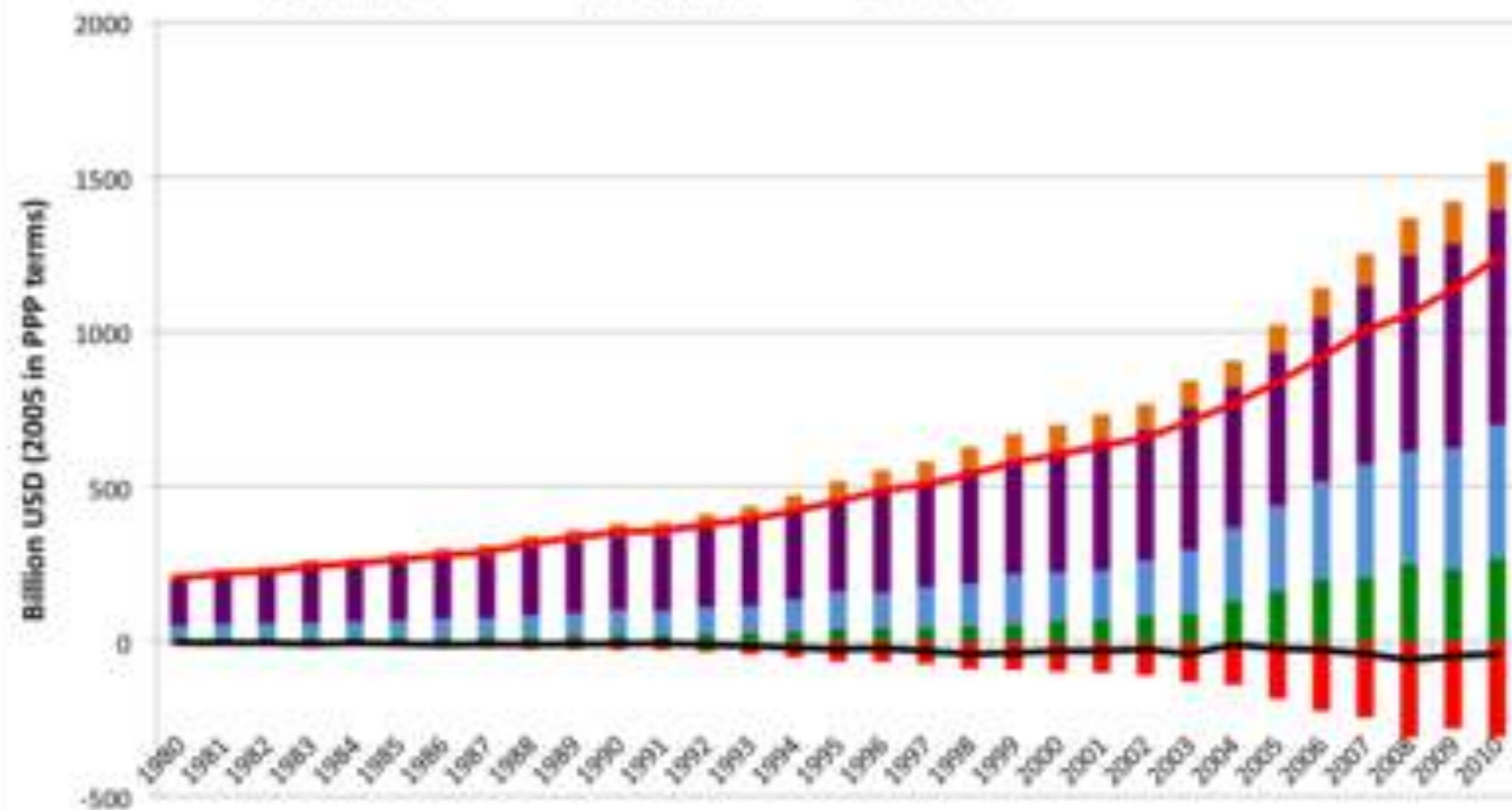
China

Western  
Europe

Japan

Source: US Energy Information Administration.

## Evolution of India's Real GDP (1980–2010)





















Refugee camp > Somalia



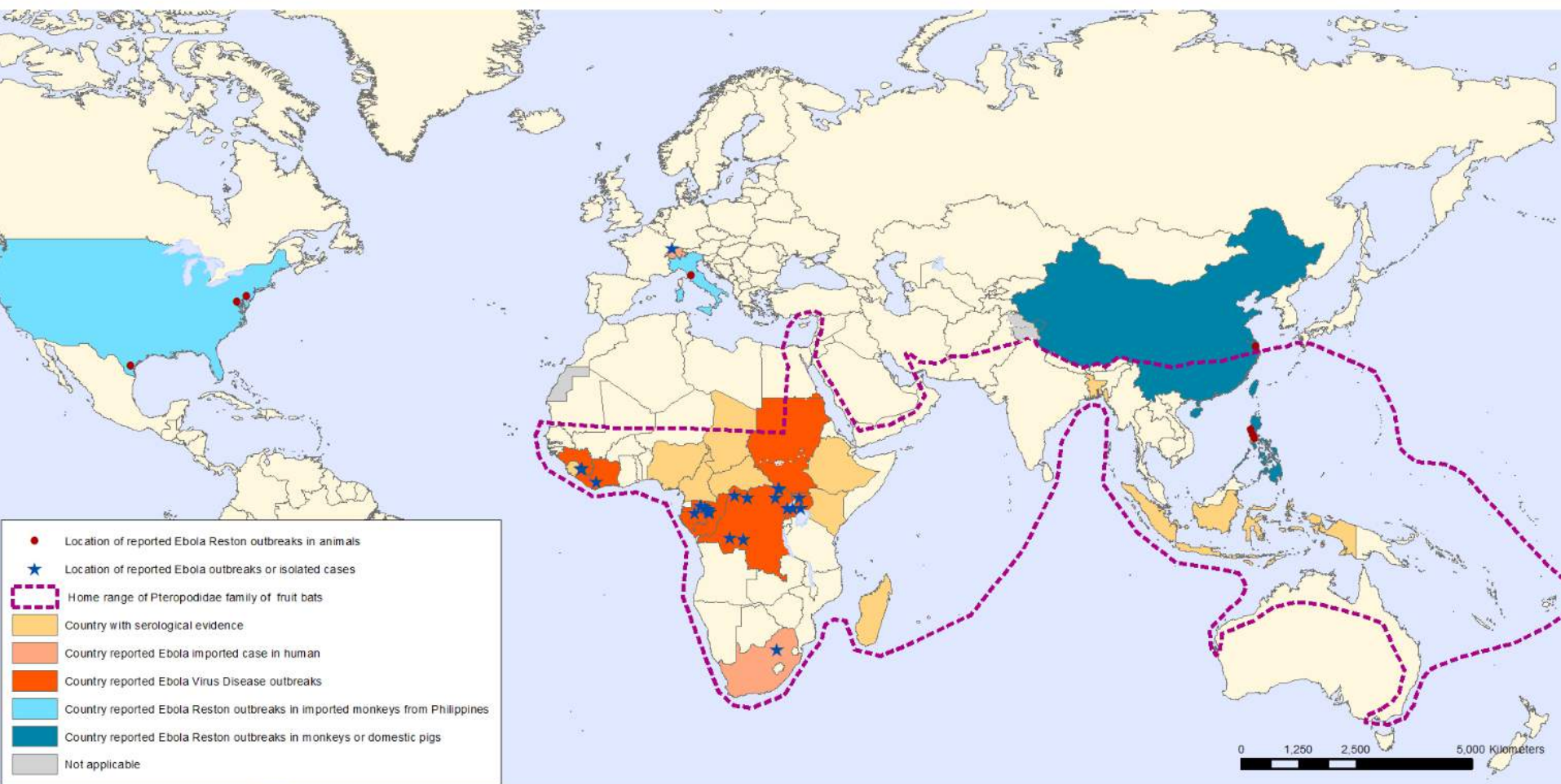




Epidemie?



## Geographic distribution of Ebola virus disease outbreaks in humans and animals



The boundaries and names shown and the designations used on this map do not imply the expression of any opinion whatsoever on the part of the World Health Organization concerning the legal status of any country, territory, city or area or of its authorities, or concerning the delimitation of its frontiers or boundaries. Dotted and dashed lines on maps represent approximate border lines for which there may not yet be full agreement.

Data Source: World Health Organization  
Map Production: Health Statistics and Information Systems (HSI)  
World Health Organization



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(65%), while the migrant population in the global South grew by around 24 million (34%). Today, about six out of every ten international migrants reside in the developed regions (Table 1).

**Table 1. International migrant stock (millions)**

	1990	2000	2010	2013
World	154.2	174.5	220.7	231.5
Developed regions	82.3	103.4	129.7	135.6
Developing regions	71.9	71.1	91	95.9
Africa	15.6	15.6	17.1	18.6
Asia	49.9	50.4	67.8	70.8
Europe	49	56.2	69.2	72.4
Latin America and the Caribbean	7.1	6.5	8.1	8.5
Northern America	27.8	40.4	51.2	53.1
Oceania	4.7	5.4	7.3	7.9

Source: United Nations (2013), *Trends in International Migrant Stock: The 2013 Revision*.

During the period 2000-10, the global migrant stock grew twice as fast than during the previous decade. During the 1990s, the global migrant stock grew at an average of about 2 million migrants per year. During the decade 2000-10, the growth in the migrant stock accelerated to about 4.6 million

## 2013 statistics [edit]

Airports Council International's full-year figures are as follows.<sup>[2]</sup>

Rank <span>↕</span>	Airport <span>↕</span>	Location <span>↕</span>	Code (IATA/ICAO) <span>↕</span>	Total passengers <span>↕</span>	Rank Change <span>↕</span>	% Change <span>↕</span>
1.	<span><span></span></span> Hartsfield–Jackson Atlanta International Airport	Atlanta, Georgia, United States	ATL/KATL	94,430,785	<span>—</span>	<span>▼</span> 1.1%
2.	<span><span></span></span> Beijing Capital International Airport	Chaoyang, Beijing, China	PEK/ZBAA	83,712,355	<span>—</span>	<span>▲</span> 2.2%
3.	<span><span></span></span> Heathrow Airport	Hillingdon, London, United Kingdom	LHR/EGLL	72,368,030	<span>—</span>	<span>▲</span> 3.3%
4.	<span><span></span></span> Tokyo International Airport	Ōta, Tokyo, Japan	HND/RJTT	68,906,636	<span>—</span>	<span>▲</span> 3.3%
5.	<span><span></span></span> O'Hare International Airport	Chicago, Illinois, United States	ORD/KORD	66,883,271	<span>—</span>	<span>▼</span> 0.1%
6.	<span><span></span></span> Los Angeles International Airport	Los Angeles, California, United States	LAX/KLAX	66,702,252	<span>—</span>	<span>▲</span> 4.7%
7.	<span><span></span></span> Dubai International Airport	Garhoud, Dubai, United Arab Emirates	DXB/OMDB	66,431,533	<span>▲</span> 3	<span>▲</span> 15.2%
8.	<span><span></span></span> Paris Charles de Gaulle Airport	Roissy-en-France, Île-de-France, France	CDG/LFPG	62,052,917	<span>▼</span> 1	<span>▲</span> 0.7%
9.	<span><span></span></span> Dallas-Fort Worth International Airport	Dallas-Fort Worth, Texas, United States	DFW/KDFW	60,436,266	<span>▼</span> 1	<span>▲</span> 3.2%
10.	<span><span></span></span> Soekarno-Hatta International Airport	Cengkareng, Tangerang, Banten, Indonesia	CGK/WIII	59,701,543	<span>▼</span> 1	<span>▲</span> 3.4%
11.	<span><span></span></span> Hong Kong International Airport	Chek Lap Kok, Hong Kong, China	HKG/VHHH	59,609,414	<span>▲</span> 1	<span>▲</span> 6.3%
12.	<span><span></span></span> Frankfurt Airport	Frankfurt, Hesse, Germany	FRA/EDDF	58,036,948	<span>▼</span> 1	<span>▲</span> 0.9%
13.	<span><span></span></span> Singapore Changi Airport	Changi, Singapore	SIN/WSSS	53,726,087	<span>▲</span> 2	<span>▲</span> 5.0%
14.	<span><span></span></span> Amsterdam Schiphol Airport	Haarlemmermeer, North Holland, Netherlands	AMS/EHAM	52,569,250	<span>▲</span> 2	<span>▲</span> 3.0%
15.	<span><span></span></span> Denver International Airport	Denver, Colorado, United States	DEN/KDEN	52,556,359	<span>▼</span> 2	<span>▼</span> 1.1%
16.	<span><span></span></span> Guangzhou Baiyun International Airport	Huadu, Guangzhou, Guangdong, China	CAN/ZGGG	52,450,262	<span>▲</span> 2	<span>▲</span> 8.6%
17.	<span><span></span></span> Suvarnabhumi Airport	Bang Phli, Samut Prakan, Thailand	BKK/VTBS	51,363,451	<span>▼</span> 3	<span>▼</span> 3.1%
18.	<span><span></span></span> Atatürk International Airport	Istanbul, Turkey	IST/LTBA	51,172,626	<span>▲</span> 2	<span>▲</span> 13.6%
19.	<span><span></span></span> John F. Kennedy International Airport	Queens, New York City, New York, United States	JFK/KJFK	50,413,204	<span>▼</span> 2	<span>▲</span> 2.3%
20.	<span><span></span></span> Kuala Lumpur International Airport	Sepang, Selangor, Malaysia	KUL/WMKK	47,498,157	<span>▲</span> 7	<span>▲</span> 19.1%
21.	<span><span></span></span> Shanghai Pudong International Airport	Pudong, Shanghai, China	PVG/ZSPD	47,189,849	<span>—</span>	<span>▲</span> 5.2%
22.	<span><span></span></span> San Francisco International Airport	San Mateo County, California, United States	SFO/KSFO	44,944,201	<span>—</span>	<span>▲</span> 1.2%
23.	<span><span></span></span> Charlotte Douglas International Airport	Charlotte, North Carolina, United States	CLT/KCLT	43,456,310	<span>▲</span> 1	<span>▲</span> 5.4%





# Migration



Sheikh Zayed Road, Dubai, 1990



Sheikh Zayed Road, Dubai, 2005







1968:  
59,000

1985:  
370,788

2006:  
1,204,000



## Population

1,600,000 (2008) – set to increase to 3.5 million by 2010

94 % expatriates – from over 200 nations

## Language

Arabic and English – Hindi, Urdu, and most European languages also widely used

## Religion

Muslim, Hindu and Christian, various others

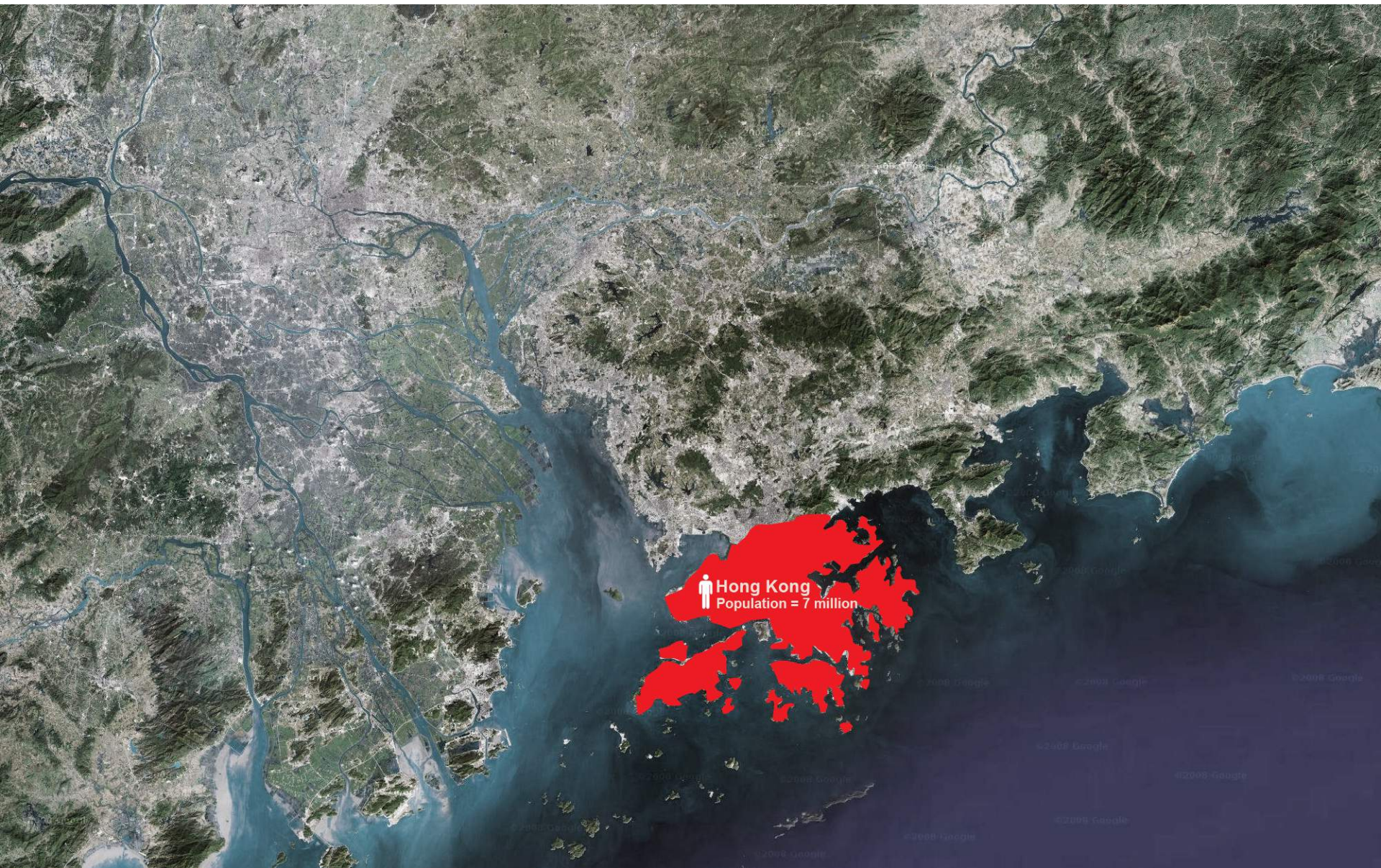












Hong Kong

Population = 7 million



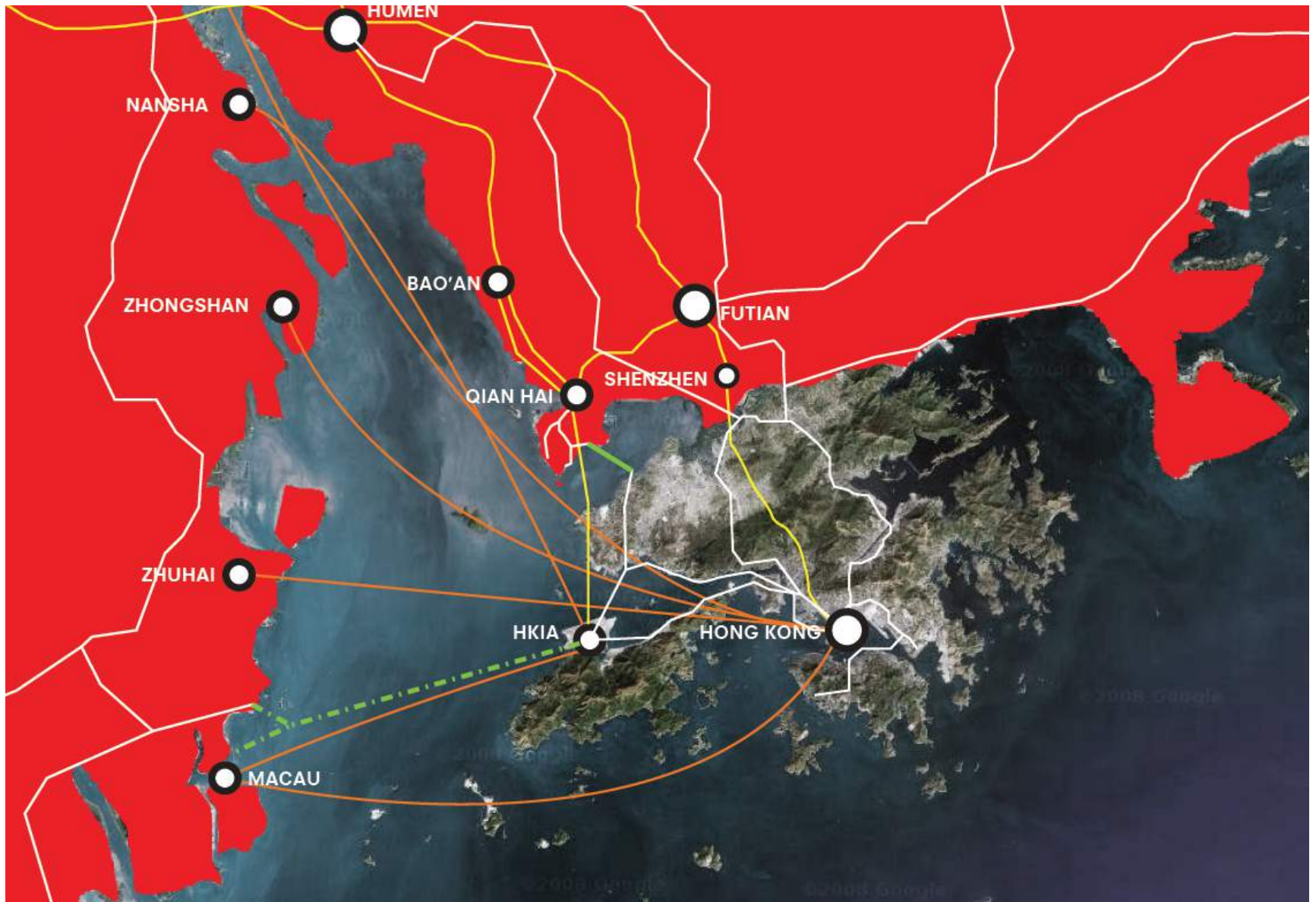


 HKSZ  
Population = 19 million





 **PRD**  
Population = 53.2 million







XLR EXPRESS  
TRAIN  
10,000 / HR

This is an aerial photograph of a coastal urban area. On the left, there is a large body of water filled with numerous shipping containers and some small boats. A red line, representing a proposed high-speed rail route, runs diagonally from the top center towards the middle right of the image. The land area is a mix of developed urban space with buildings and parking lots, and undeveloped or industrial areas with large open lots and some structures. A red text box is overlaid on the image, pointing to the rail line.

APPROVED: APRIL 2008  
SCHEDULED COMPLETION: 2015  
40,000,000 PASSENGERS / YEAR







# Segregation





















Surveillance/Security









Pollution



















Ghost cities











Gap between Systems





























Identity?



# Architect Franchises

(WESTERN)

FRANK GEHRY

JEAN NOUVEL

ZAHA HADID

HERZOG & DE MEURON

NORMAN FOSTER

RENZO PIANO

OMA

(EASTERN)

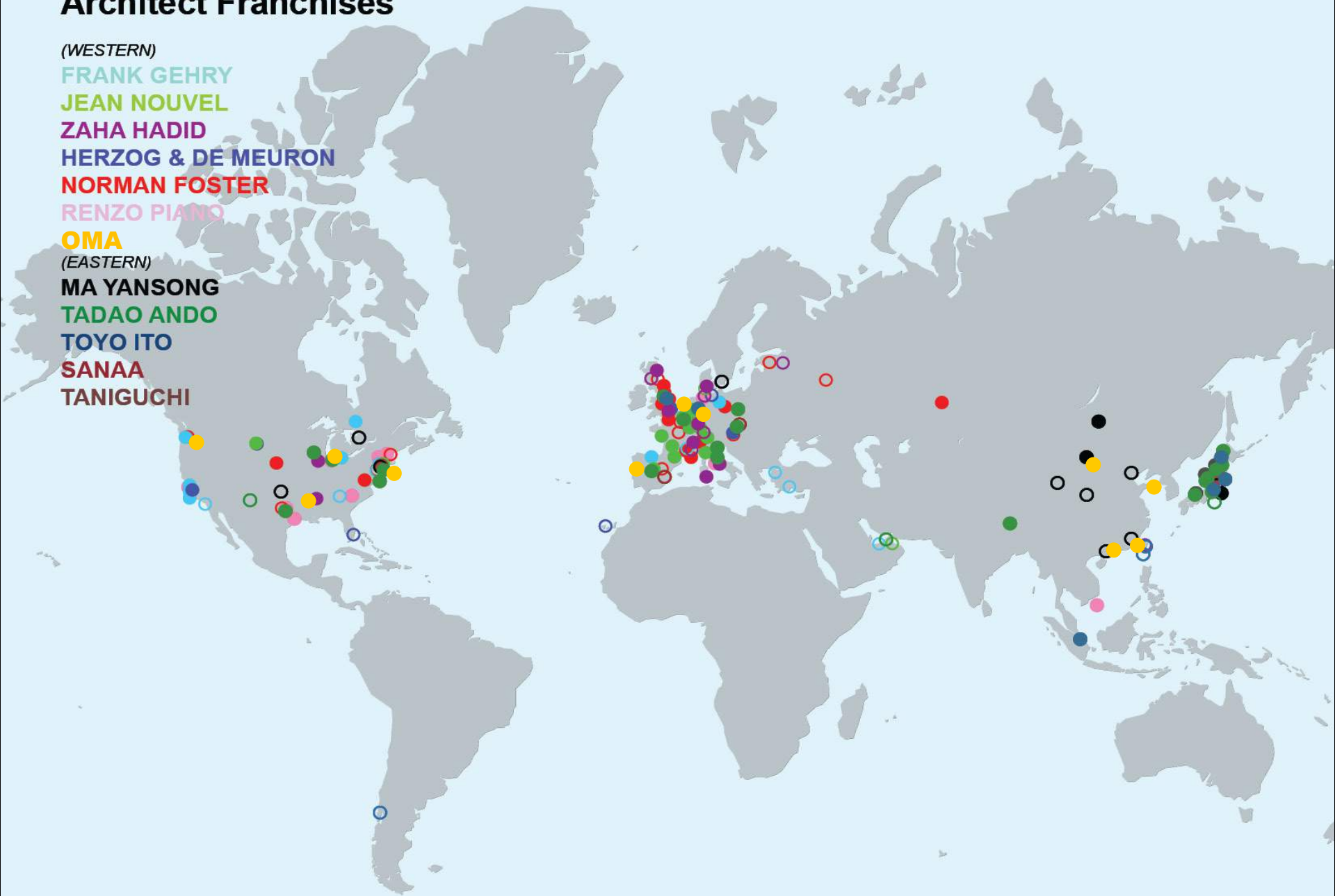
MA YANSONG

TADAO ANDO

TOYO ITO

SANAA

TANIGUCHI









# WHAT IS PUBLIC SPACE?

**What is the city but the people?**

*William Shakespeare, Coriolanus*













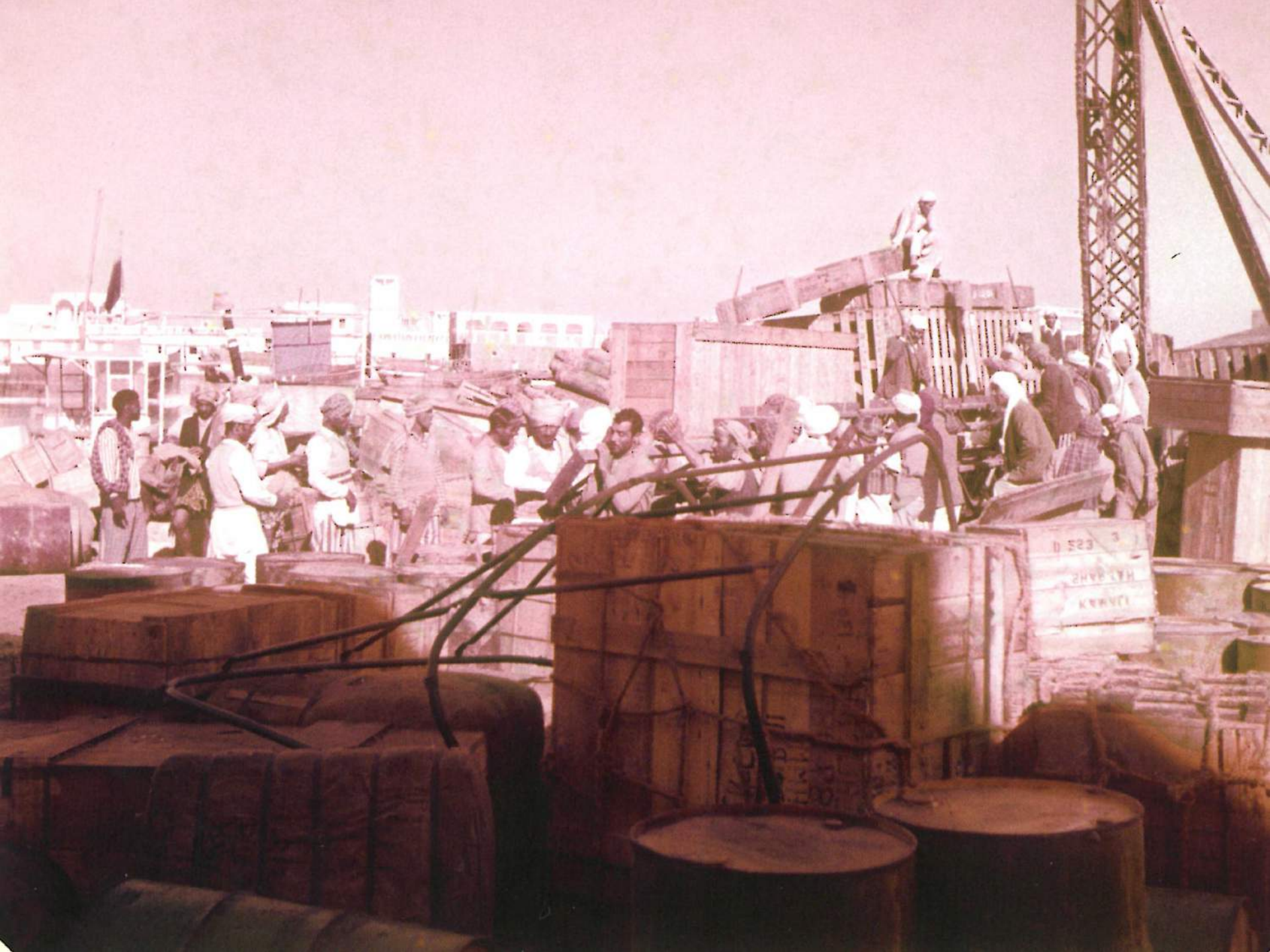








Image by Reineke Otten















Keep discovering.  
Let Emirates Holidays be your guide









Delicious starts  
right here.







**McDonalds on Strike**  
**Don't Eat Here**  
**we're not lovin' it**

**unite**  
UNION OF WORKERS

**TOOT  
IN**

**TOOT  
IN  
SUPPORT**  
unite.org.nz







A photograph of a human skull mounted on a wooden stick. The stick is also holding a rectangular sign with handwritten text. The skull is positioned at the top of the stick, and the sign is attached to it with a green pin. The background is a plain, light-colored wall.

2ND FACE  
OF YOUR  
GLOBAL-  
IZATION





Solutions?



# Quality of Life Survey

**Monocle** is a global affairs and lifestyle magazine, 24-hour radio station, website, and media brand. Described as a “meeting between Foreign Policy and Vanity Fair”, the magazine provides a globalist perspective on international affairs, business, culture, design, and fashion.



# Monocle Quality of Life Survey

## RANKING:

- 1 Copenhagen
- 2 Munich
- 3 Tokyo
- 4 Zürich
- 5 Helsinki
- 6 Vienna
- 7 Stockholm
- 8 Vancouver
- 9 Melbourne
- 10 Paris

A photograph of a modern building with a glass facade and a wooden pier extending into the water. The building has a dark, textured upper section and a glass lower section. The pier is filled with people sitting under umbrellas. The text "DEVELOPMENT IN ARCHITECTURE" is overlaid in white, bold, sans-serif font.

# DEVELOPMENT IN ARCHITECTURE



# DEVELOPMENT IN DESIGN



# GOURMET FOOD





# GREEN PUBLIC SPACE



# Monocle Quality of Life Survey

## KEY CATEGORIES:

- \_development in architecture
- \_design
- \_gourmet food
- \_public transportation
- \_bicycle culture
- \_harbour baths
- \_green public spaces
- \_trendy cafes





# selection of the most livable cities

The Organisation for Economic Co-operation and Development is an international economic organisation of 34 countries founded in 1961 to stimulate economic progress and world trade. It is a forum of countries committed to democracy and the market economy, providing a platform to compare policy experiences, seek answers to common problems, identify good practices and coordinate domestic and international policies of its members.

# OECD

## selection of the most livable cities

### RANKING:

1 Canberra  
Sydney  
Melbourne  
Perth  
New Hampshire  
Minnesota



# CIVIC ENGAGEMENT



# WORK-LIFE BALANCE







HOUSING





# OECD

## selection of the most livable cities

### KEY CATEGORIES:

- \_housing
- \_income
- \_jobs
- \_community
- \_education
- \_environment
- \_civic engagement
- \_health
- \_life satisfaction
- \_safety
- \_work-life balance

# The Economist

## the Liveability Ranking

The Economist is an English-language weekly newspaper. The Economist claims that it “is not a chronicle of economics”

Rather, it aims “to take part in a severe contest between intelligence, which presses forward, and an unworthy, timid ignorance obstructing our progress.” It takes an editorial stance of classical liberalism and economic liberalism which is supportive of free trade, globalisation, free immigration and cultural liberalism.



# THE ECONOMIST

## the Liveability Ranking

### RANKING:

- 1 Melbourne
- 2 Vienna
- 3 Vancouver
- 4 Toronto
- 5 Adelaide
- 6 Calgary
- 7 Sydney
- 8 Helsinki
- 9 Perth
- 10 Auckland

# CULTURE





# INFRASTRUCTURE





# ENVIRONMENT





# THE ECONOMIST

## the Liveability Ranking

### KEY CATEGORIES:

- \_healthcare
- \_culture
- \_environment
- \_education
- \_infrastructure



# MERCER

## Quality of Living ranking

Mercer is an American global human resource and related financial services consulting firm, headquartered in New York City. Mercer is one of the largest consulting firms in the world, based in more than 40 countries, and operating internationally in more than 130 countries with more than 20,500 employees.

Mercer is a subsidiary of Marsh & McLennan Companies.



# MERCER

## Quality of Living ranking

### RANKING:

- 1 Vienna
- 2 Zurich
- 3 Auckland
- 4 Munich
- 5 Vancouver

A photograph of a grand ballroom filled with people dancing. The room features a large, ornate chandelier hanging from the ceiling, and the walls are decorated with large floral arrangements. The floor is covered with a dense crowd of dancers, and the overall atmosphere is festive and elegant.

# CULTURE



**FREE-TIME**



# NATURAL ENVIRONMENT





# HOUSING



# MERCER

## Quality of Living ranking

### KEY CATEGORIES:

- \_Cosumer good
- \_ Economic environment
- \_ Housing
- \_Medical and health consideration
- \_Natural environment
- \_ political and social environment
- \_ Public services and transport
- \_recreation
- \_Schools and education
- \_Socio – cultural environment





# Human Development Index

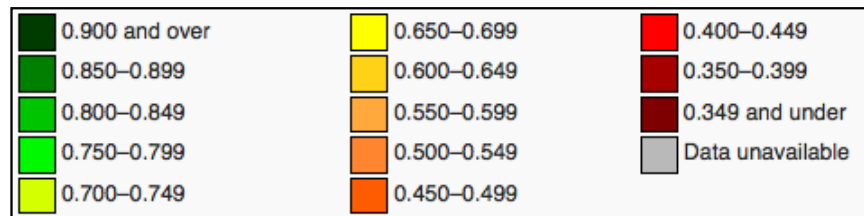
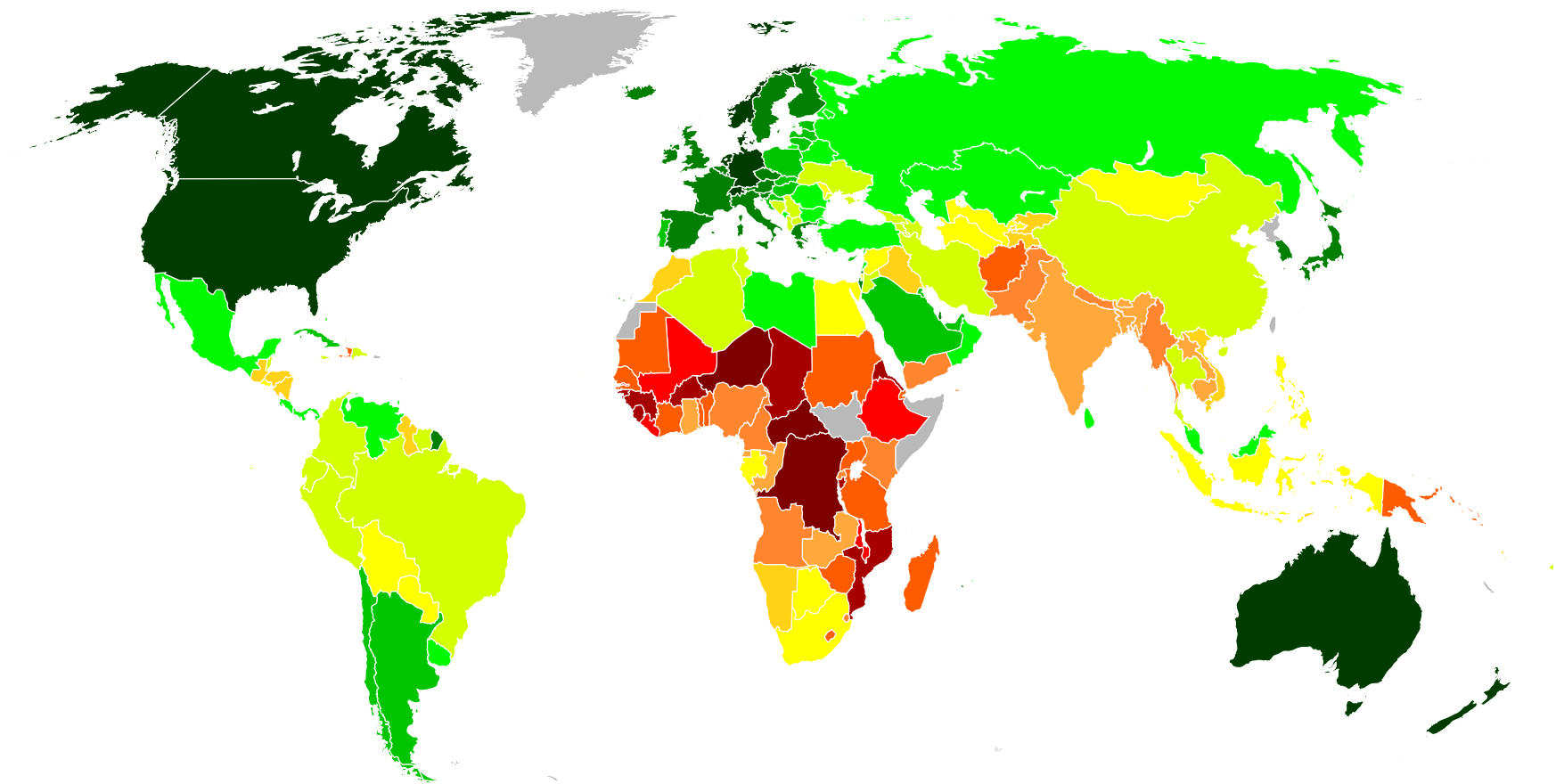
The Human Development Index (HDI) is a comparative measure of life expectancy, literacy, education, standards of living, and quality of life for countries worldwide. It is a standard means of measuring well-being, especially child welfare. It is used to distinguish whether the country is a developed, a developing or an underdeveloped country, and also to measure the impact of economic policies on quality of life.

# Human Development Index

## KEY CATEGORIES:

- \_A long and healthy life:  
Life expectancy at birth
- \_ Education index:  
Mean years of schooling and  
Expected years of schooling
- \_ A decent standard of living:  
GNI per capita (PPP US\$)







# Happy Planet Index

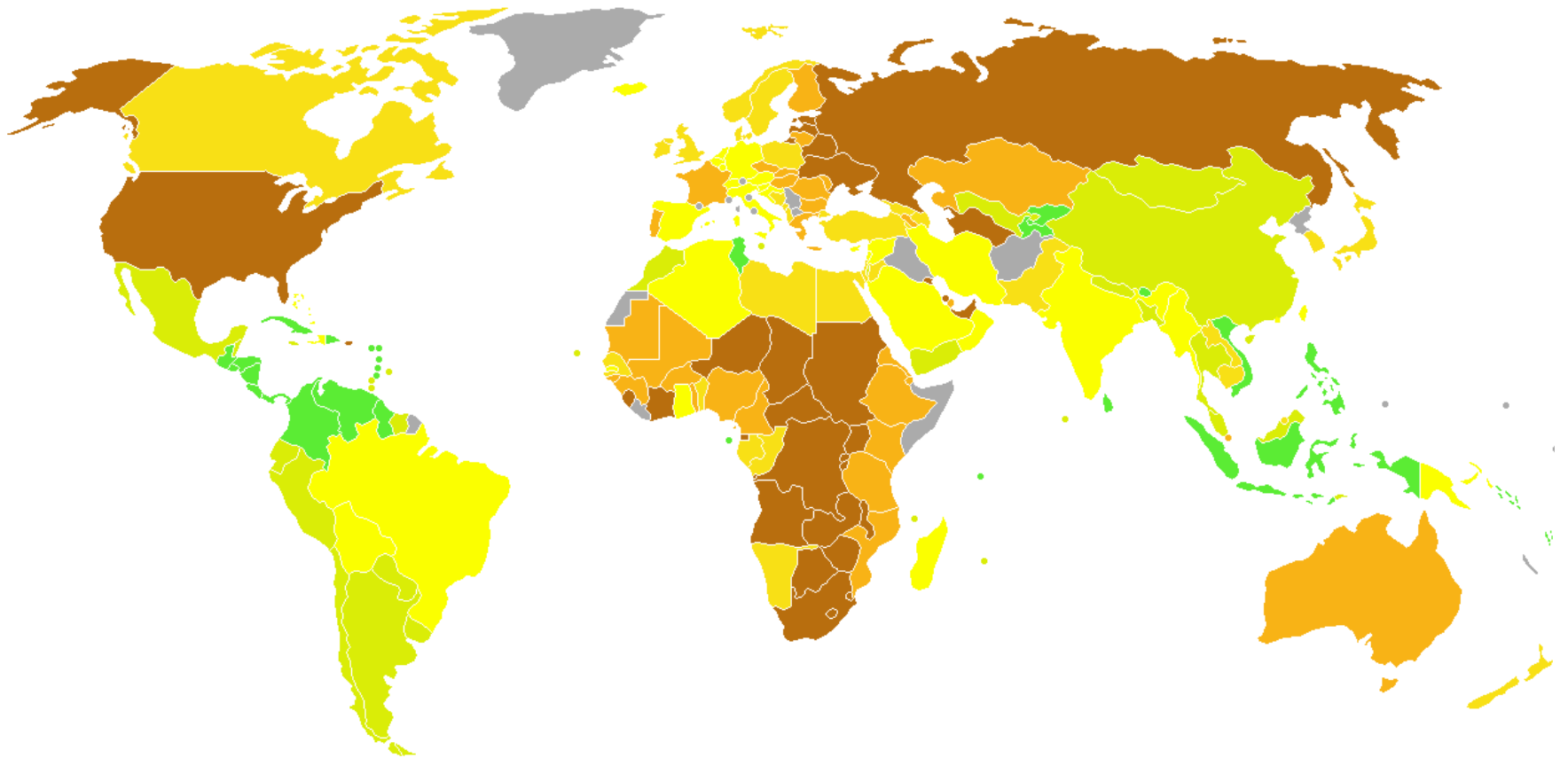
The Happy Planet Index (HPI) is an index of human well-being and environmental impact that was introduced by the New Economics Foundation in July 2006. The index is weighted to give progressively higher scores to nations with lower ecological footprints. The index is designed to challenge well-established indices of countries' development, such as Gross Domestic Product (GDP) and the Human Development Index (HDI), which are seen as not taking sustainability into account.



# Happy Planet Index

## KEY CATEGORIES:

- \_ subjective life satisfaction
- \_ life expectancy at birth
- \_ ecological footprint per capita



Map showing countries shaded by their position in the Happy Planet Index. The highest-ranked countries are bright green; the lowest are brown.



Citybrand



MILANO 2015

NUTRIRE IL PIANETA  
ENERGIA PER LA VITA









**HOT. COOL. YOURS.**





*Passion lives here*

新加坡美食节

Singapore Food Festival 2010

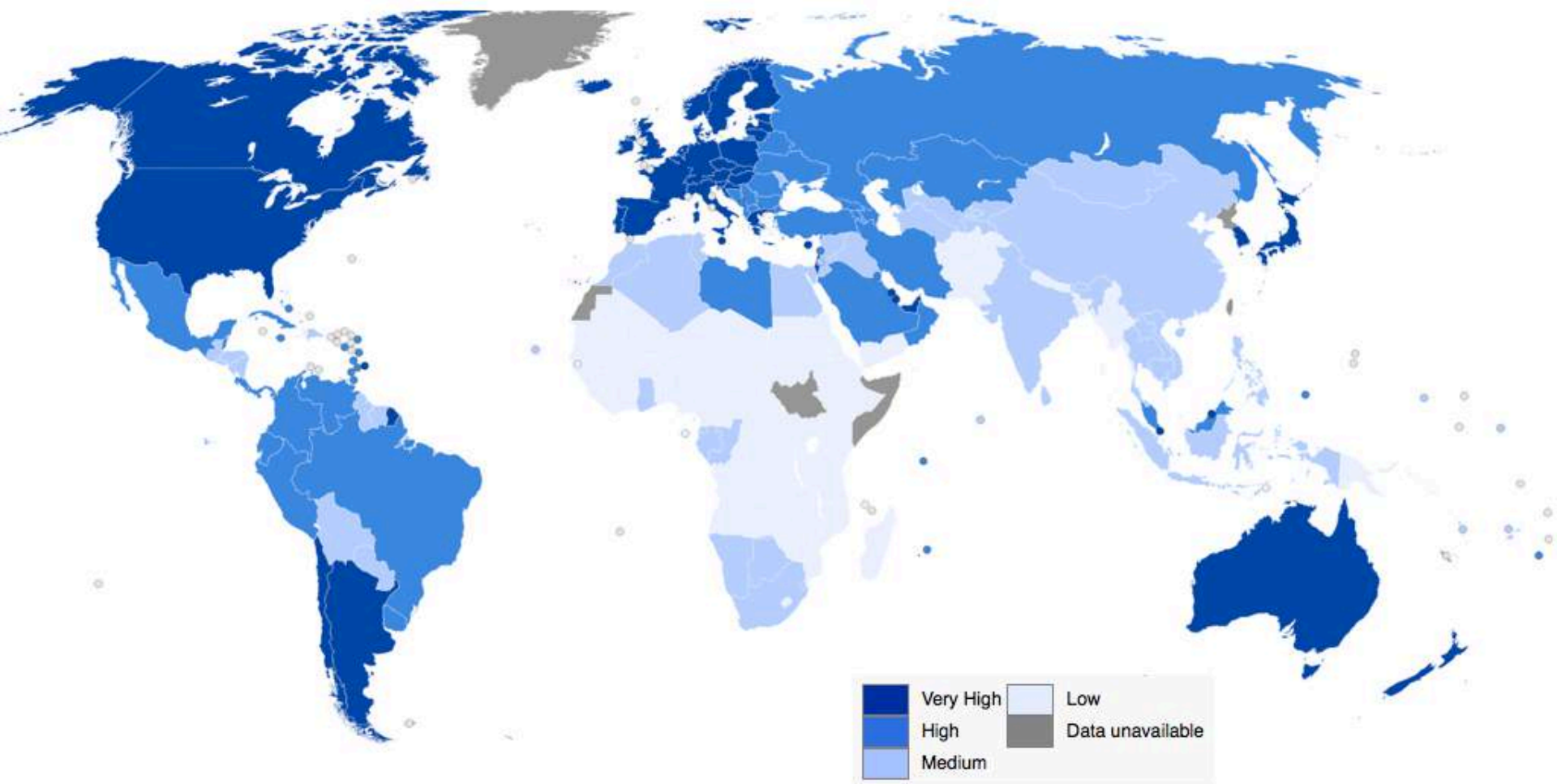
Lau Pa Sat  
Chinatown

YourSingapore.com





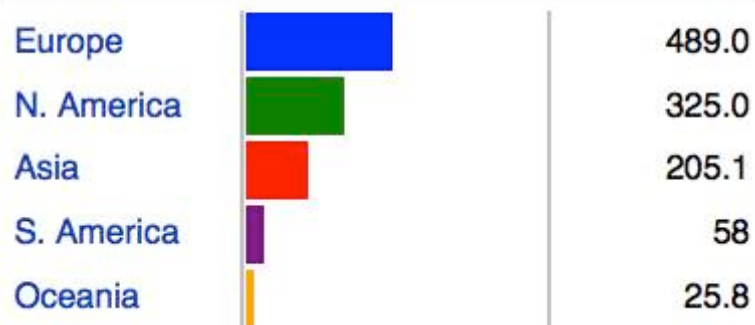
Responsibility?



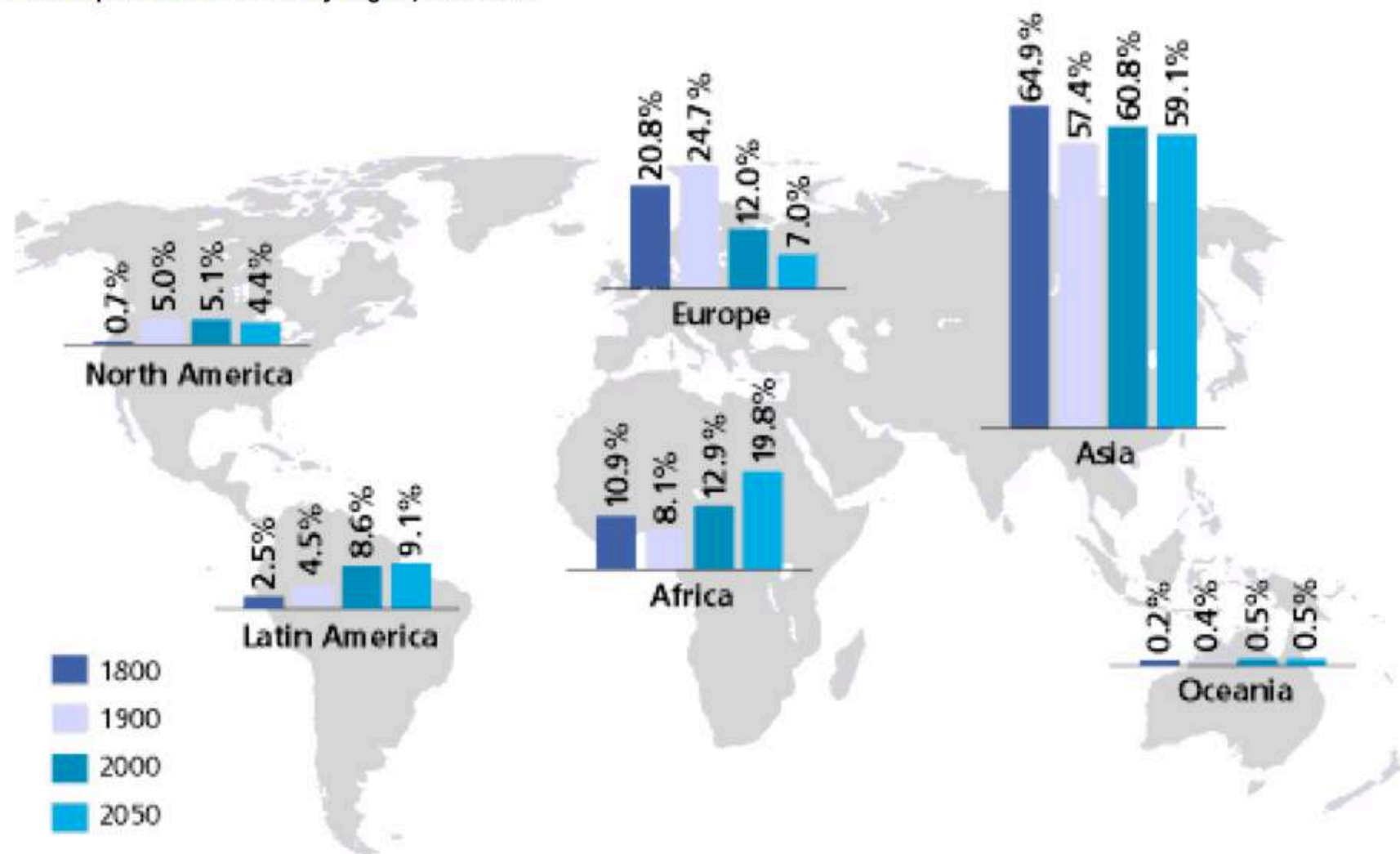
The United Nations Human Development Index (HDI) rankings for 2011



**2011 Very High HDI nations, by population  
size**



World Population Distribution by Region, 1800–2050



Source: DESA



