

Vivre dans l'anthropocène au XXIème siècle

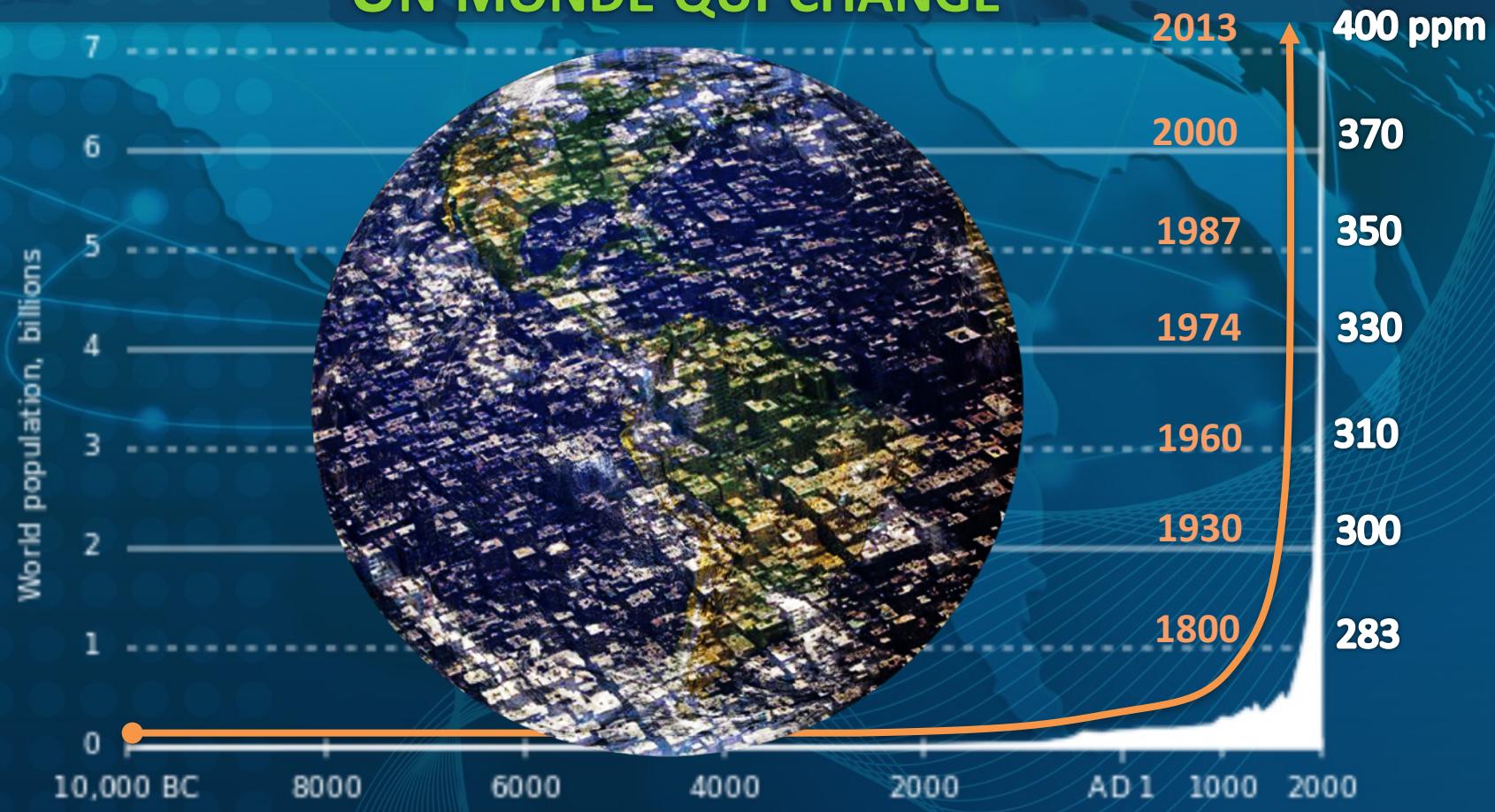
20 avril 2017

Comité Stratégique
Ville de Paris

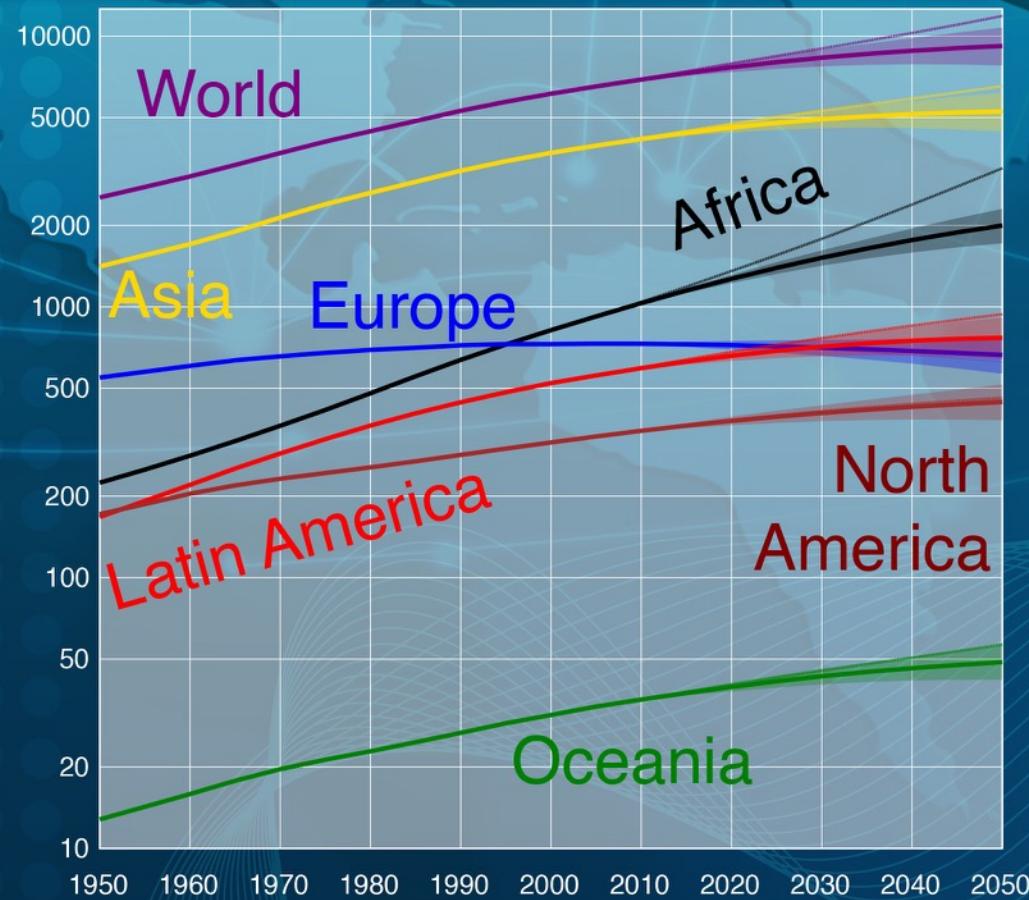
Pr Carlos Moreno
Président du Comité Scientifique du Forum « Live in a Living City »
Envoyé spécial Ville Intelligente de la Maire de Paris

DE L'HOLOCÈNE À L'ANTHROPOCÈNE

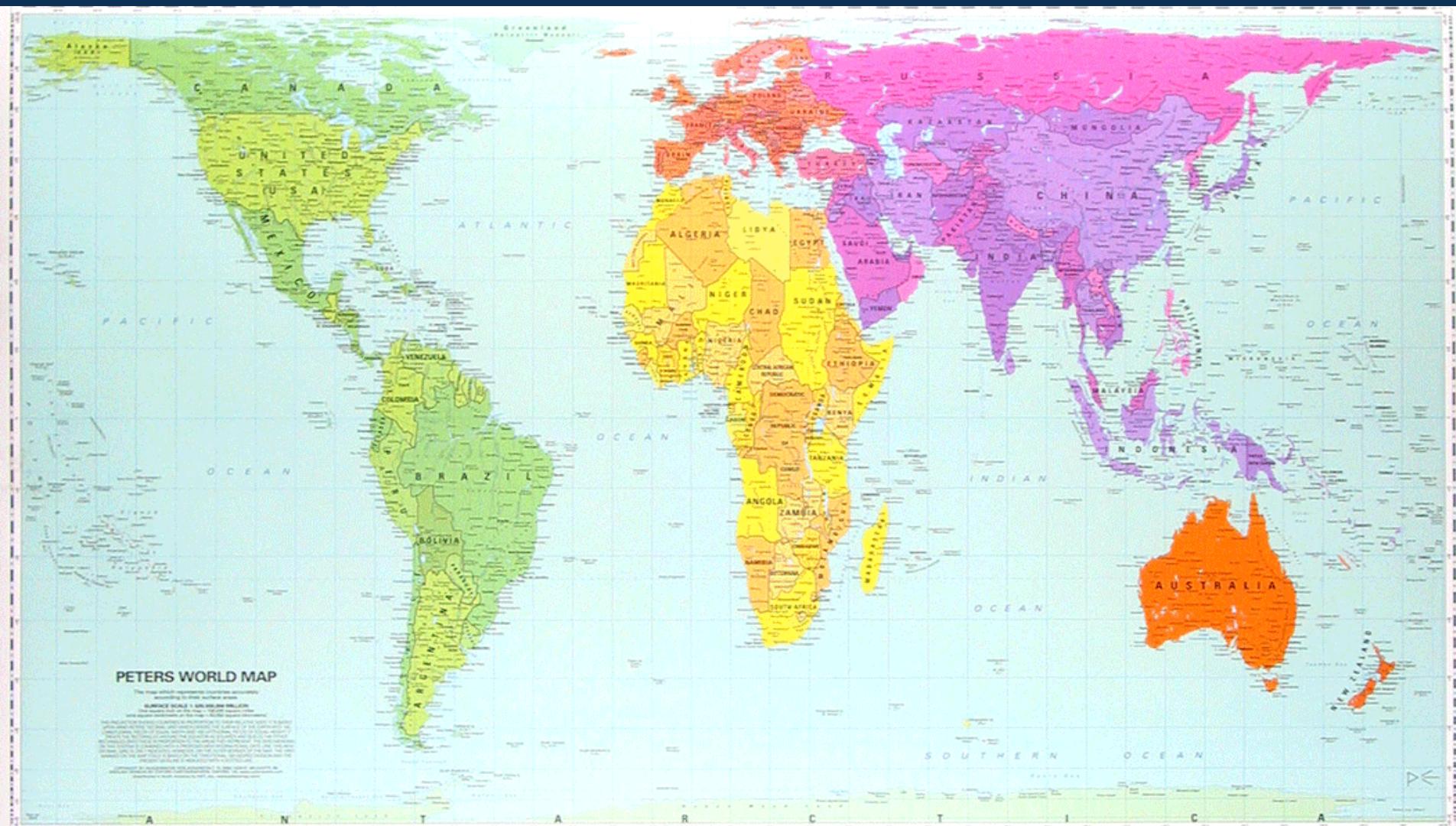
UN MONDE QUI CHANGE



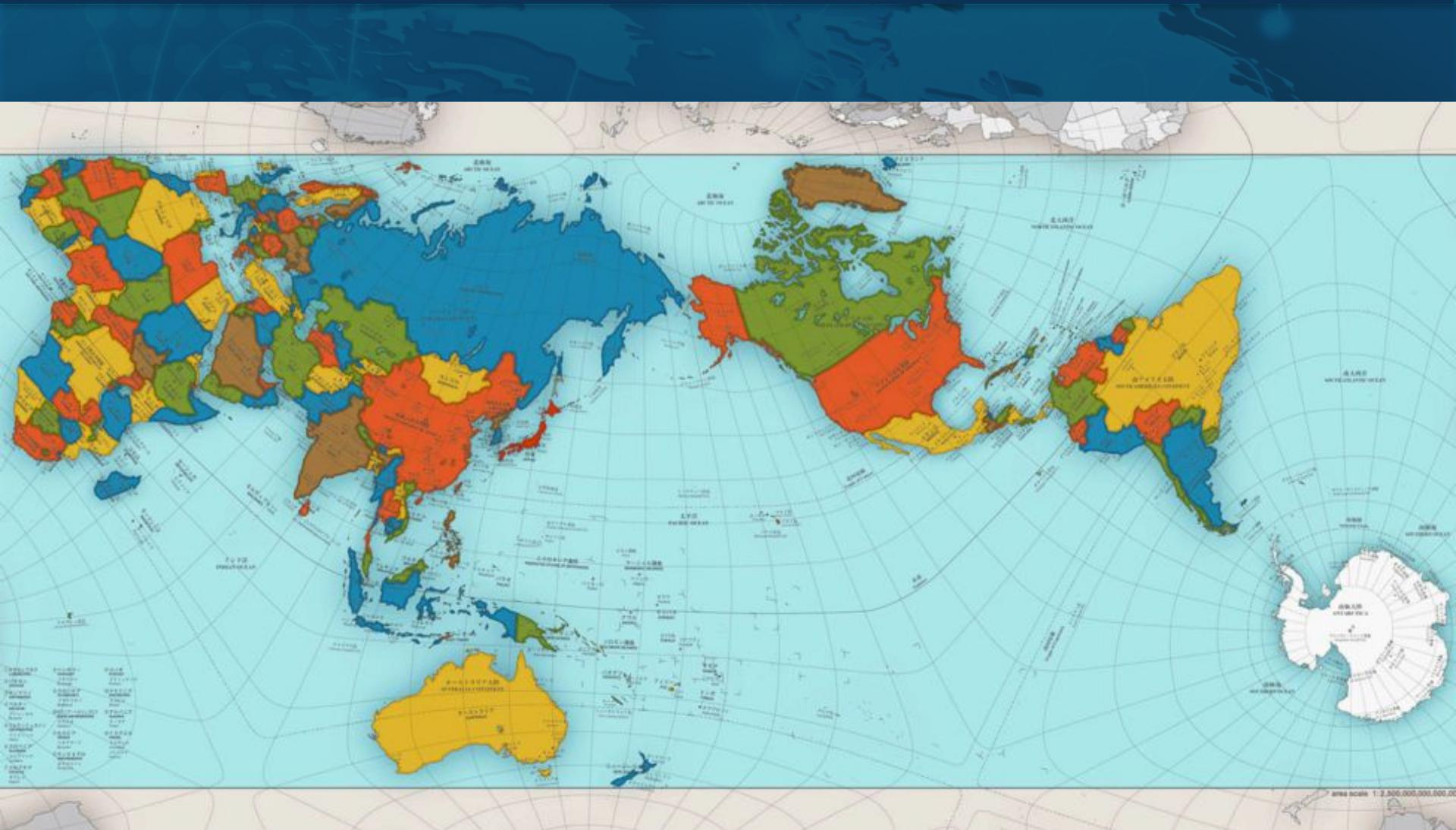
1950 - 2050



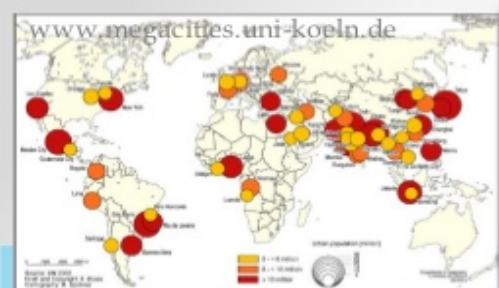
QUEL MONDE EST LE NÔTRE ?



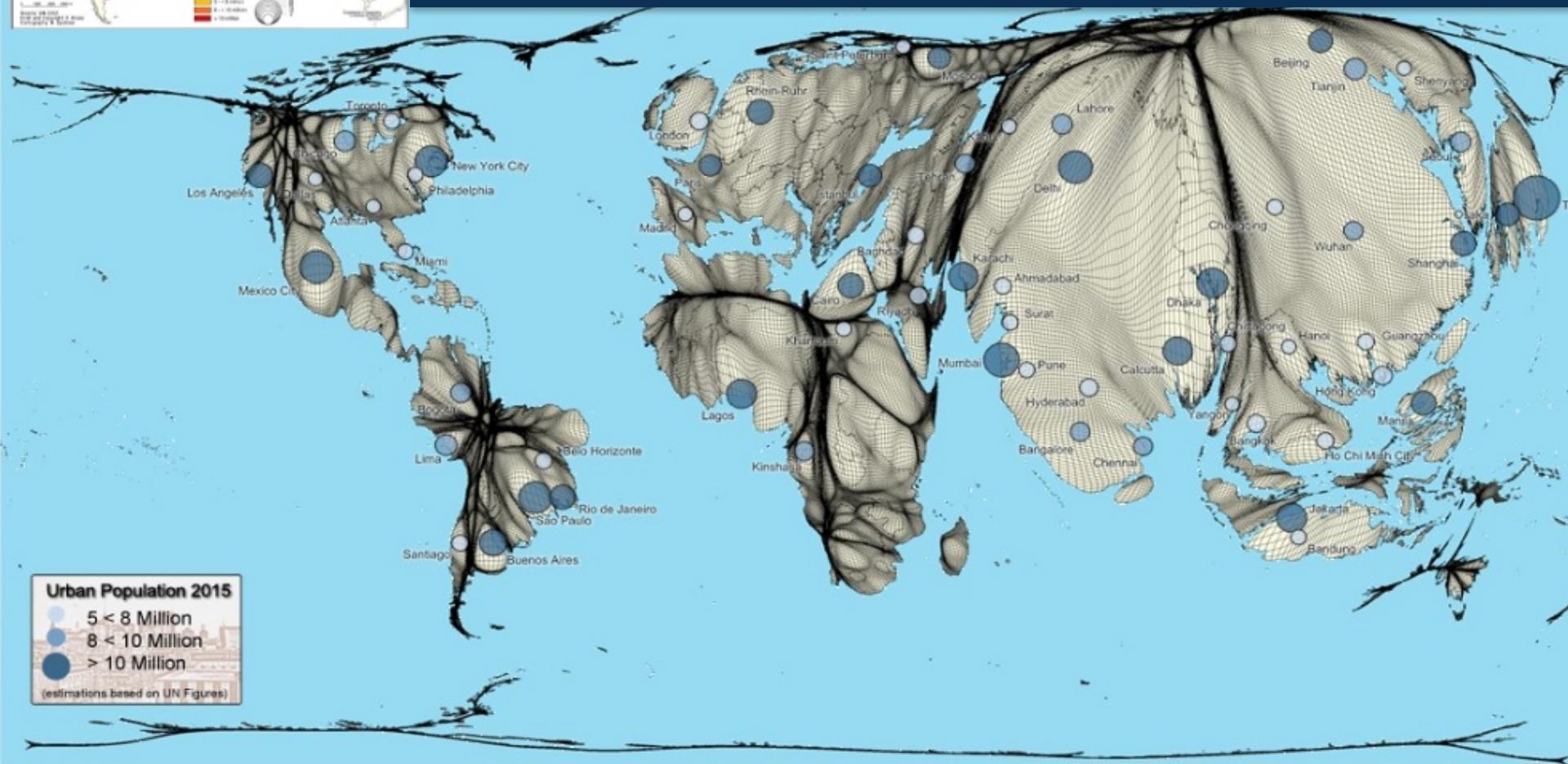
AUTAGRAPH BY HAJIME NARUKAWA

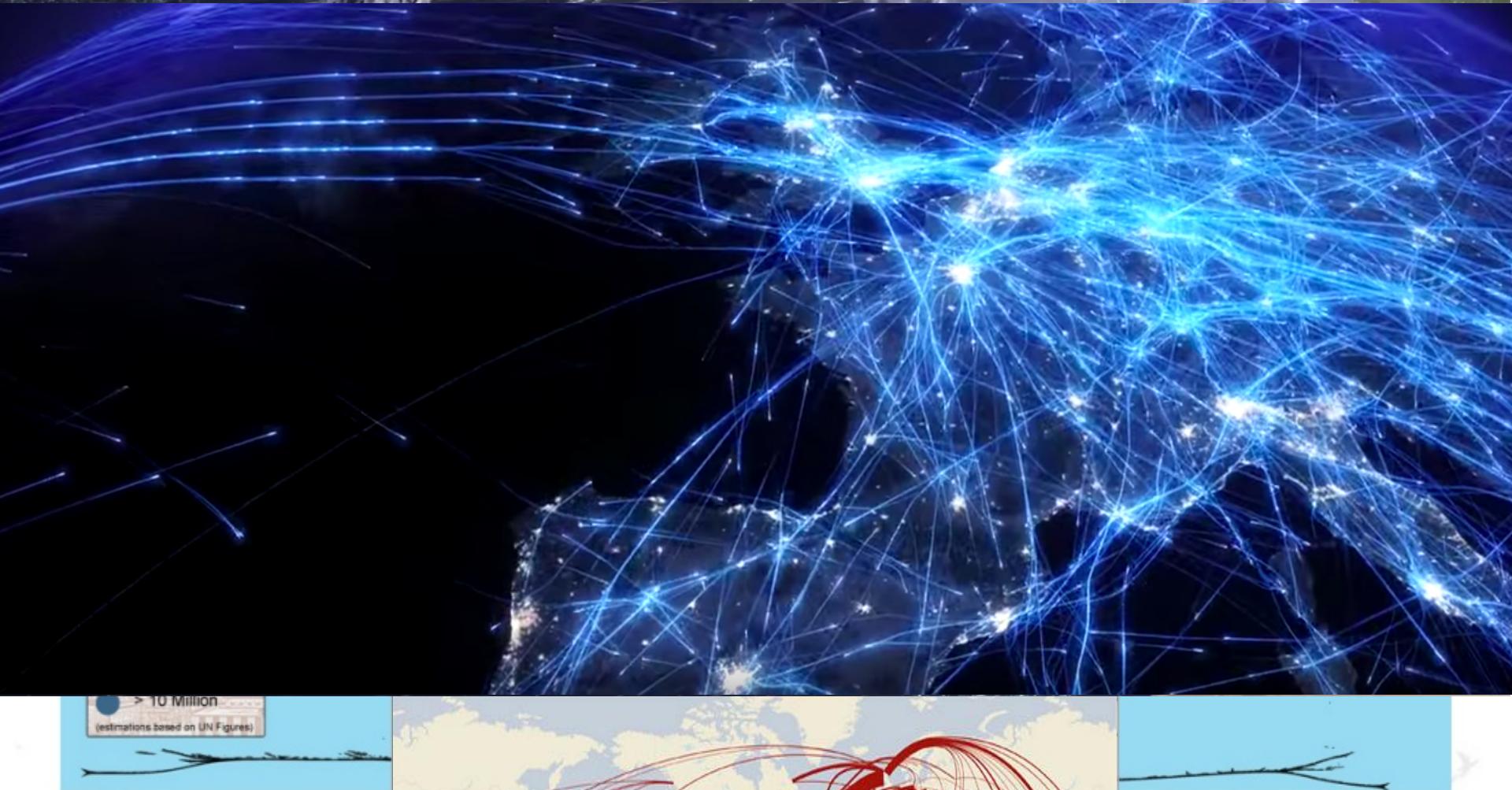


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UNE PLANÈTE URBAINE







2016

Source : www.rome2rio.com

UN MONDE QUI CHANGE

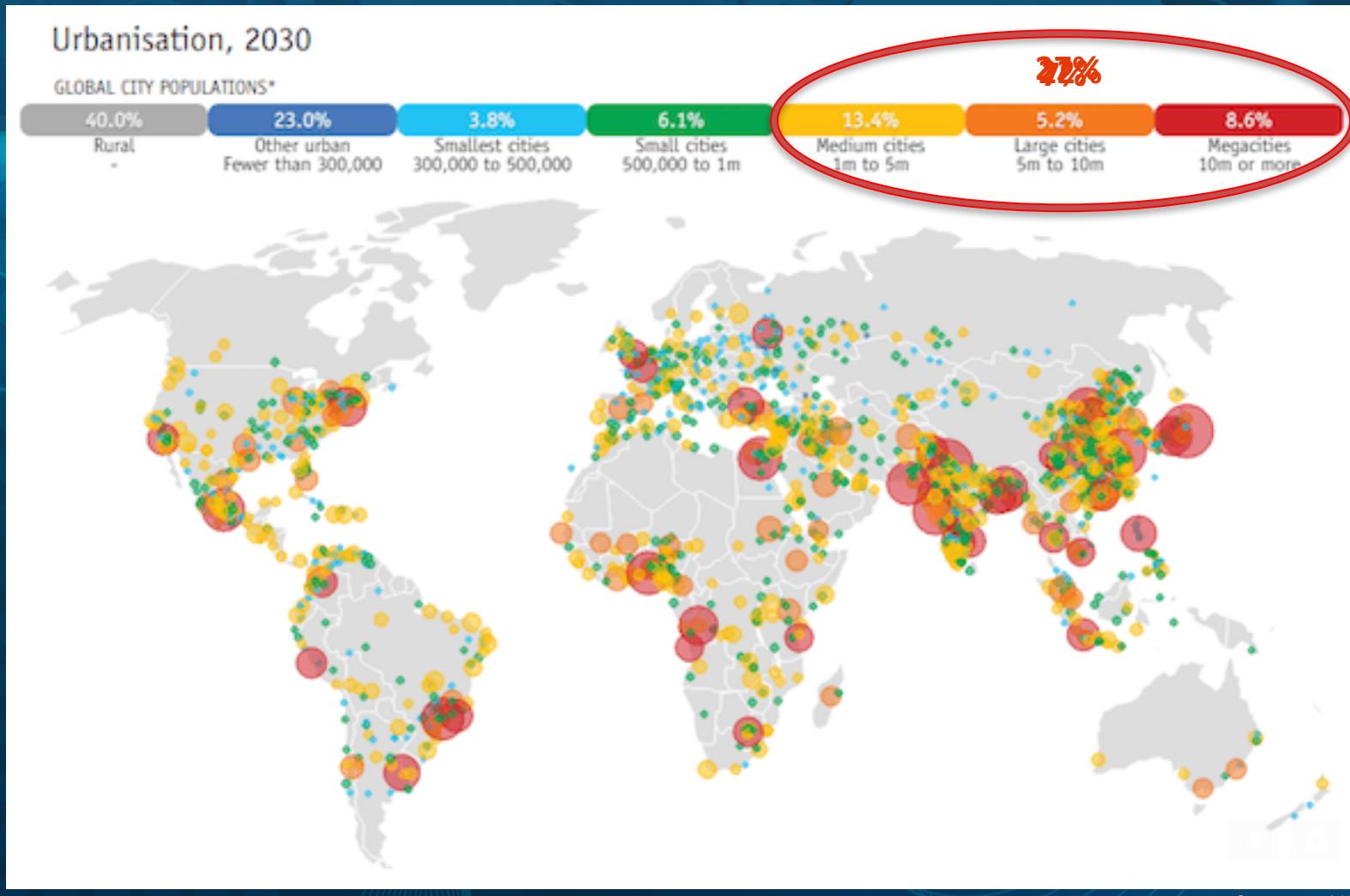


Plus de monde habite à l'intérieur de ce cercle qu'à l'extérieur

UN MONDE QUI CHANGE

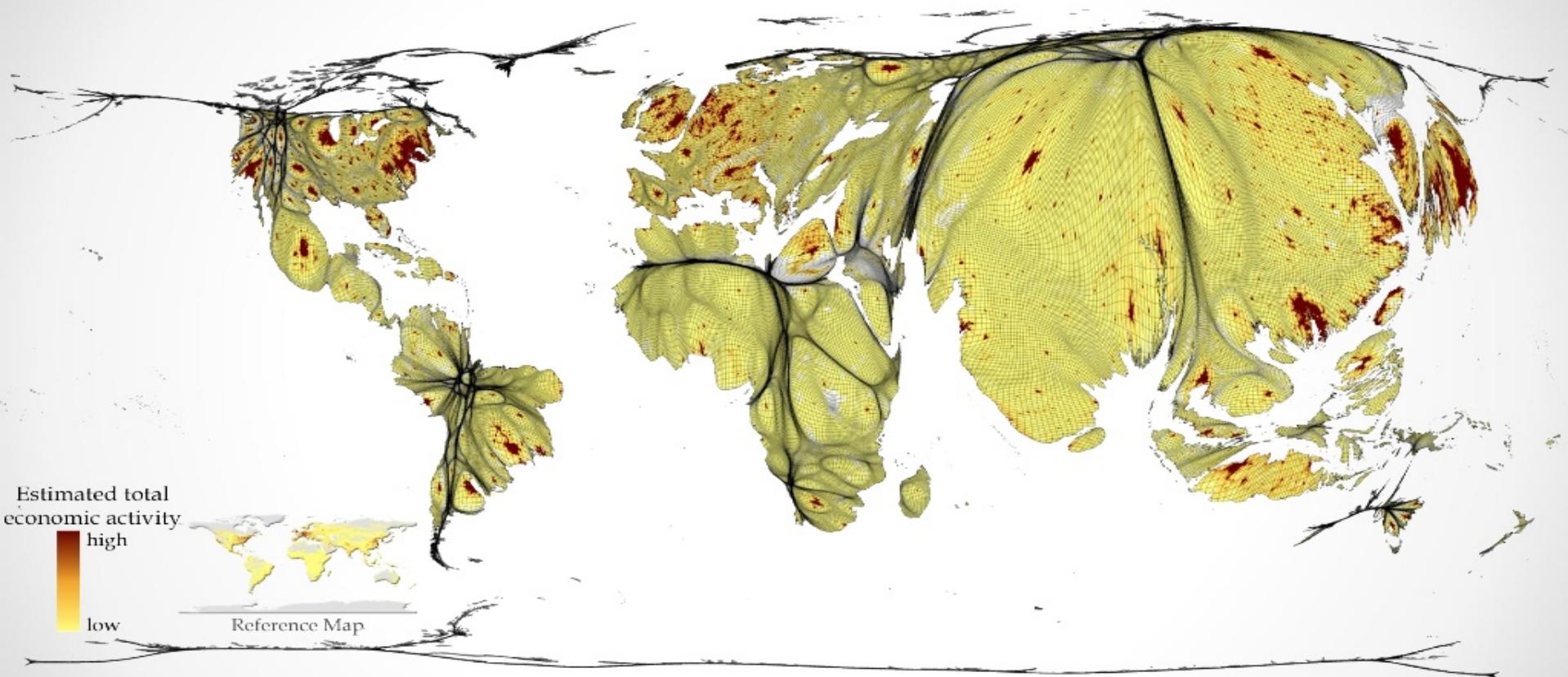


POPULATION MONDIALE URBAINE

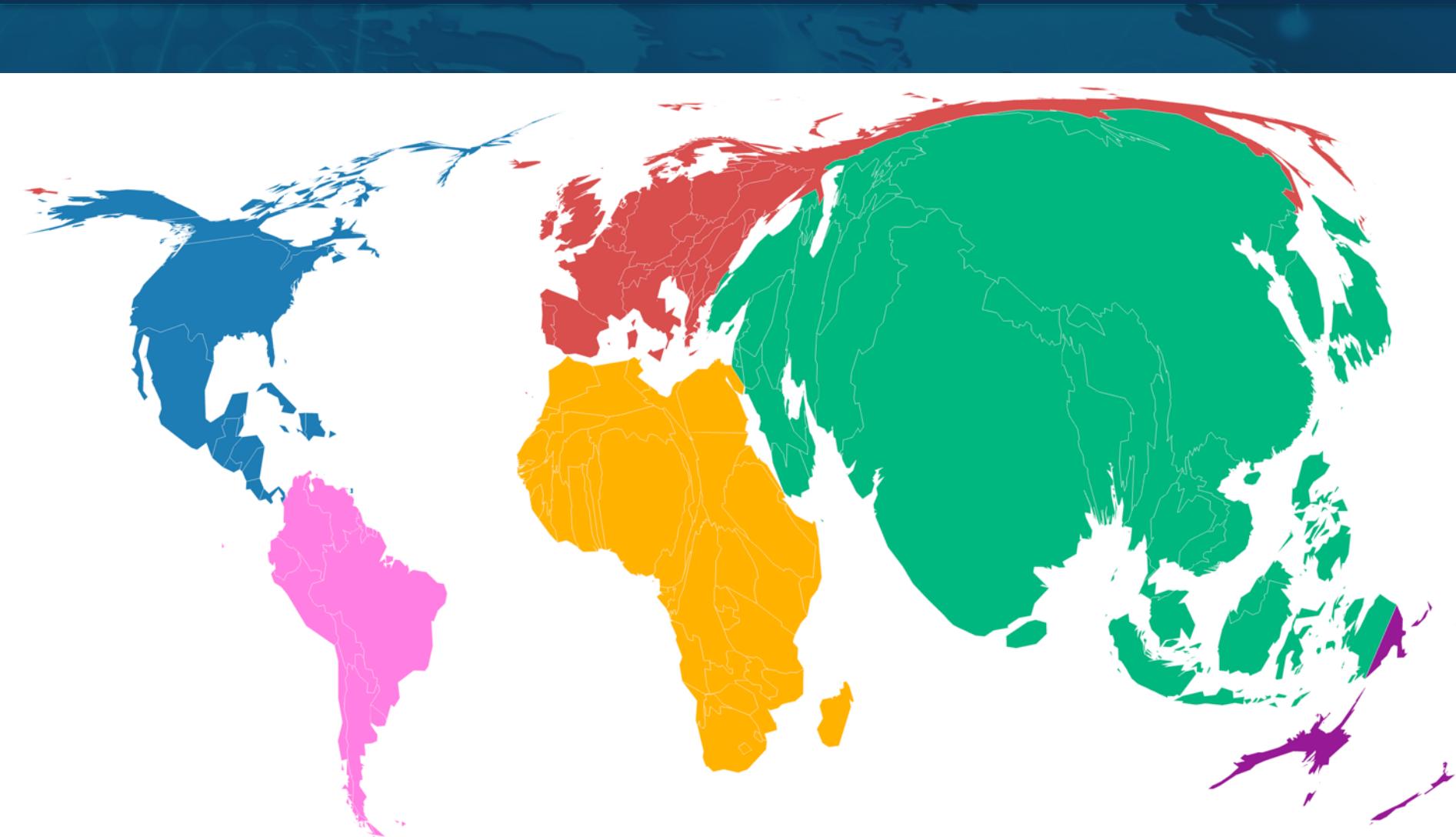


ACTIVITÉ ÉCONOMIQUE

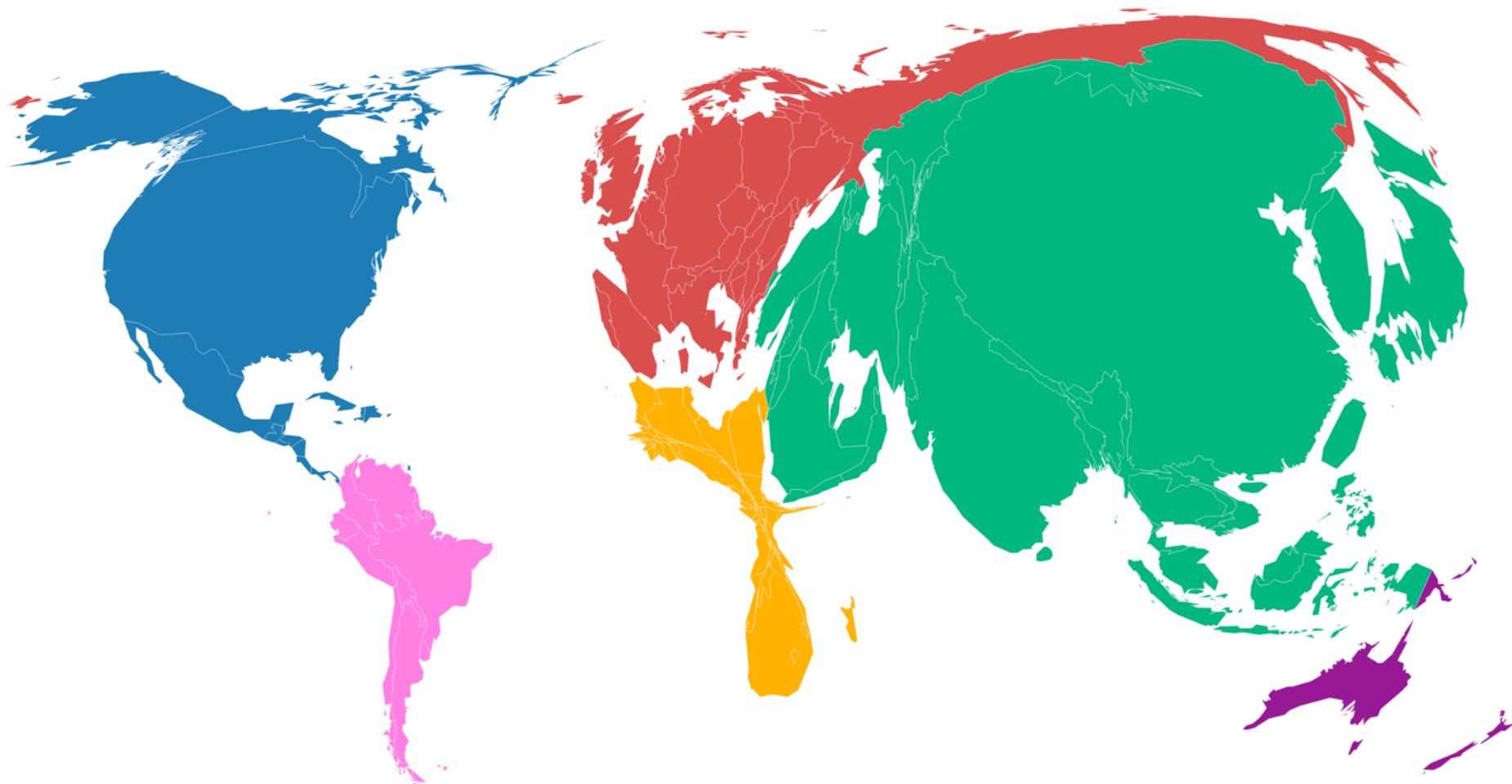
Wealth



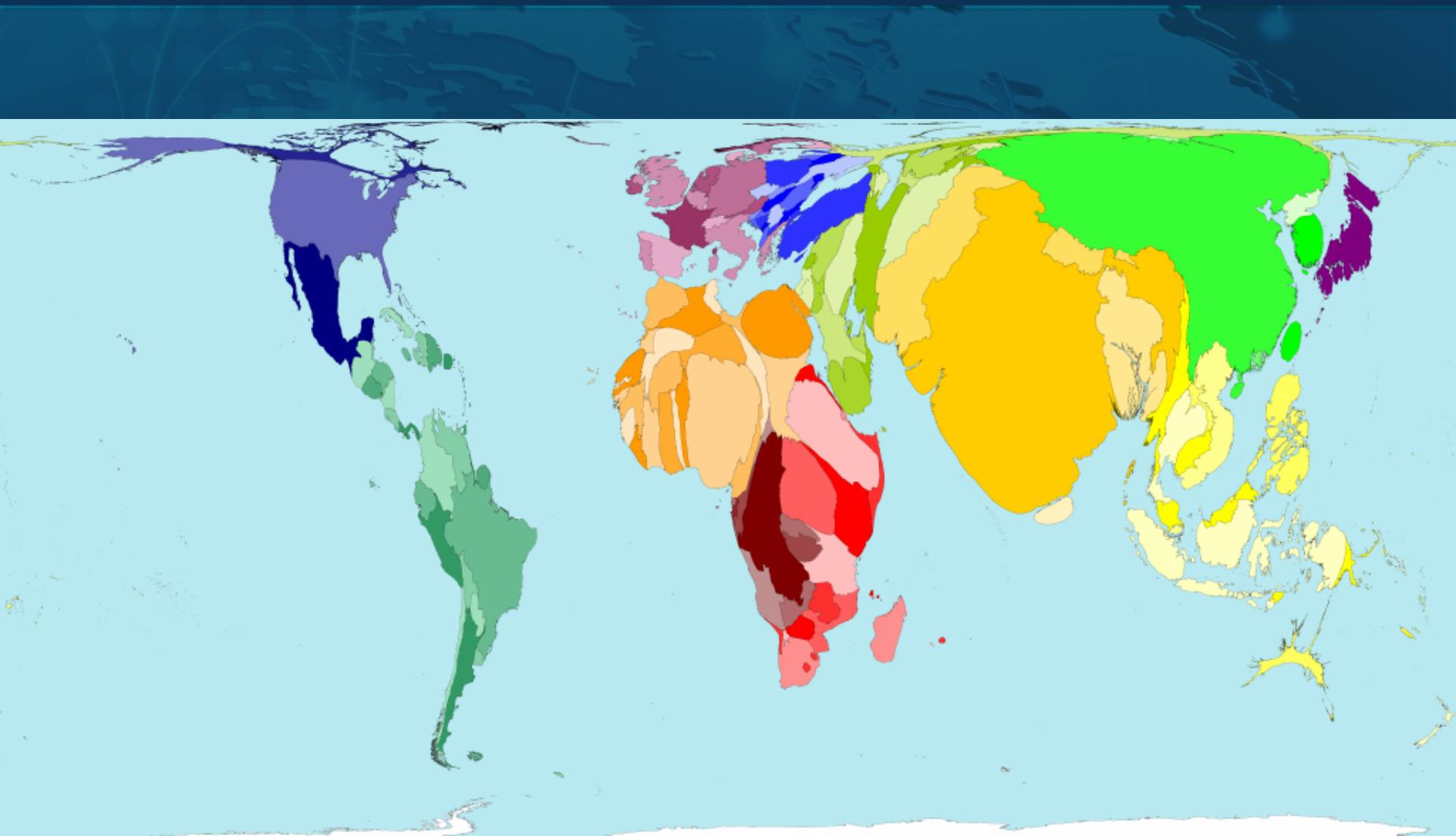
POPULATION MONDIALE AUJOURD'HUI

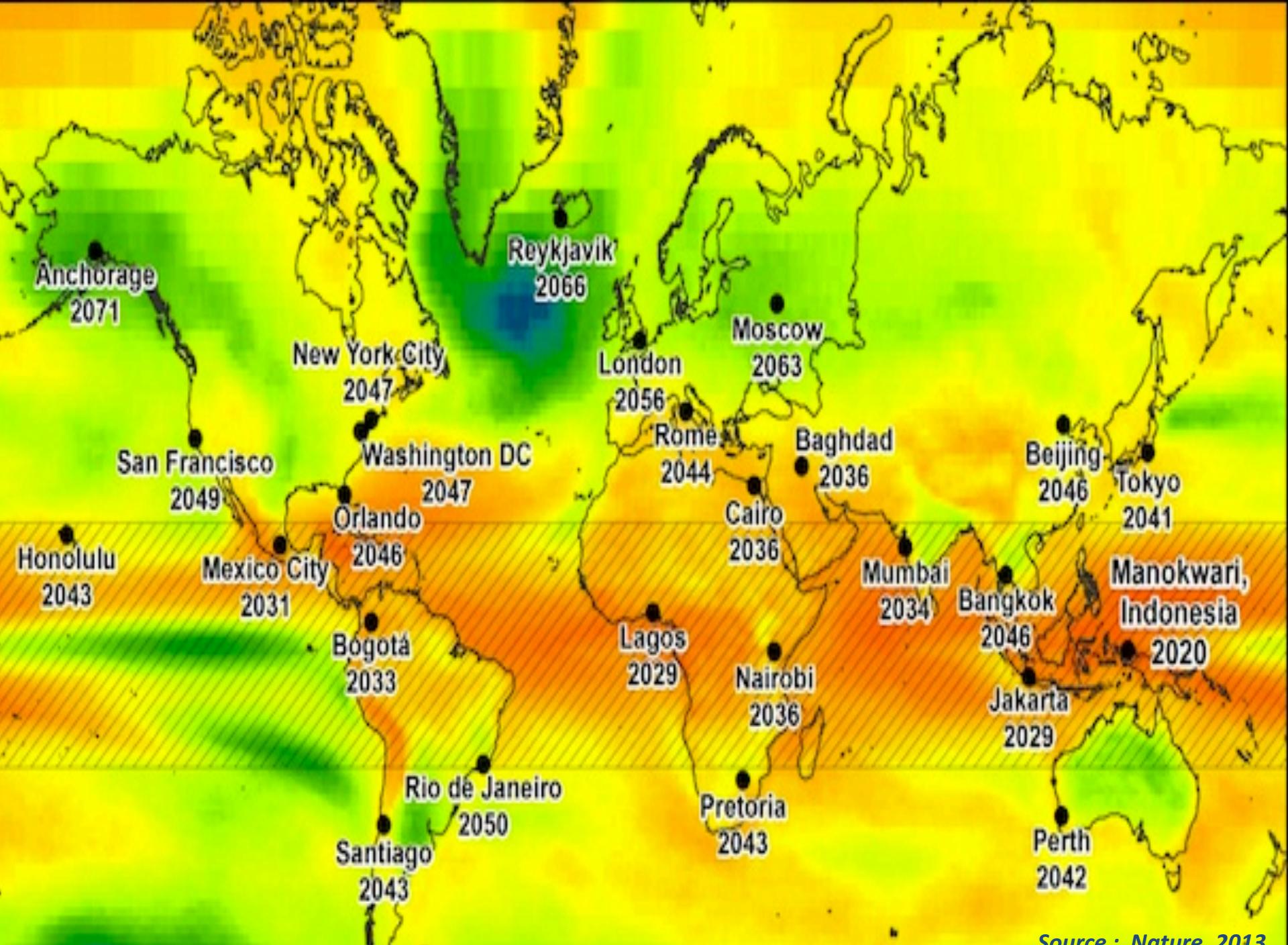


EMISSIONS DE CO₂



POPULATION 2050





Source : Nature, 2013

2030, 750 MÉTROPOLES = 60% PIB MONDIAL



2015, 139 VILLES = 44% PIB EUROPÉEN





PIB NEW YORK = PIB AUSTRALIE

PIB LOS ANGELES = PIB NETHERLANDS

PIB CHICAGO = PIB SWITZERLAND

PIB SEATTLE = PIB ISRAËL

PIB TEL AVIV = +54% PIB ISRAËL

PIB PARIS - ILE DE FRANCE > PIB ARGENTINA

Rang	Ville	Population habitants (année)		
1	Tokyo	37 730 064 (2014)		
2	Karachi	24 475 231 (2014)		
3	Manille	24 197 302 (2014)		
4	Shanghai	24 150 000 (2014)		
5	New York			2 900 (2014)
6	Lagos			5 689 (2014)
7	Séoul			
8	Mumbai			403 (2014)
9	Delhi			337 (2014)
10	Beijing			311 (2014)
11	Mexico	20 879 830 (2014)		281 (2013)
12	São Paulo	20 853 705 (2014)		
13	Djakarta	20 553 458 (2013)		
14	Le Caire	20 439 541 (2014)		
75	Colombo		5 837 294 (2014)	
76	Belo Horizonte		5 737 729 (2014)	
77	Hangzhou		5 695 313 (2014)	
78	Xian		5 624 154 (2014)	
79	Pune		5 518 688 (2014)	
80	Shantou		5 391 028 (2014)	
81	Detroit		5 314 163 (2014)	
82	Rangoun		5 209 541 (2014)	
522	Querétaro		1 004 896 (2014)	
523	Nice		1 003 947 (2014)	
524	Kota		1 001 365 (2014)	
525	Marrakech		1 000 800 (2014)	

Vers des hyper métropoles à 50 millions d'habitants

2 - Tokyo et la mégalopole japonaise



Une région peuplée :
Tokyo-Osaka-Nagoya
= 70 m. habitants.

Une région riche :
Tokyo-Osaka-Nagoya
PIB = 2400 Milliard \$.

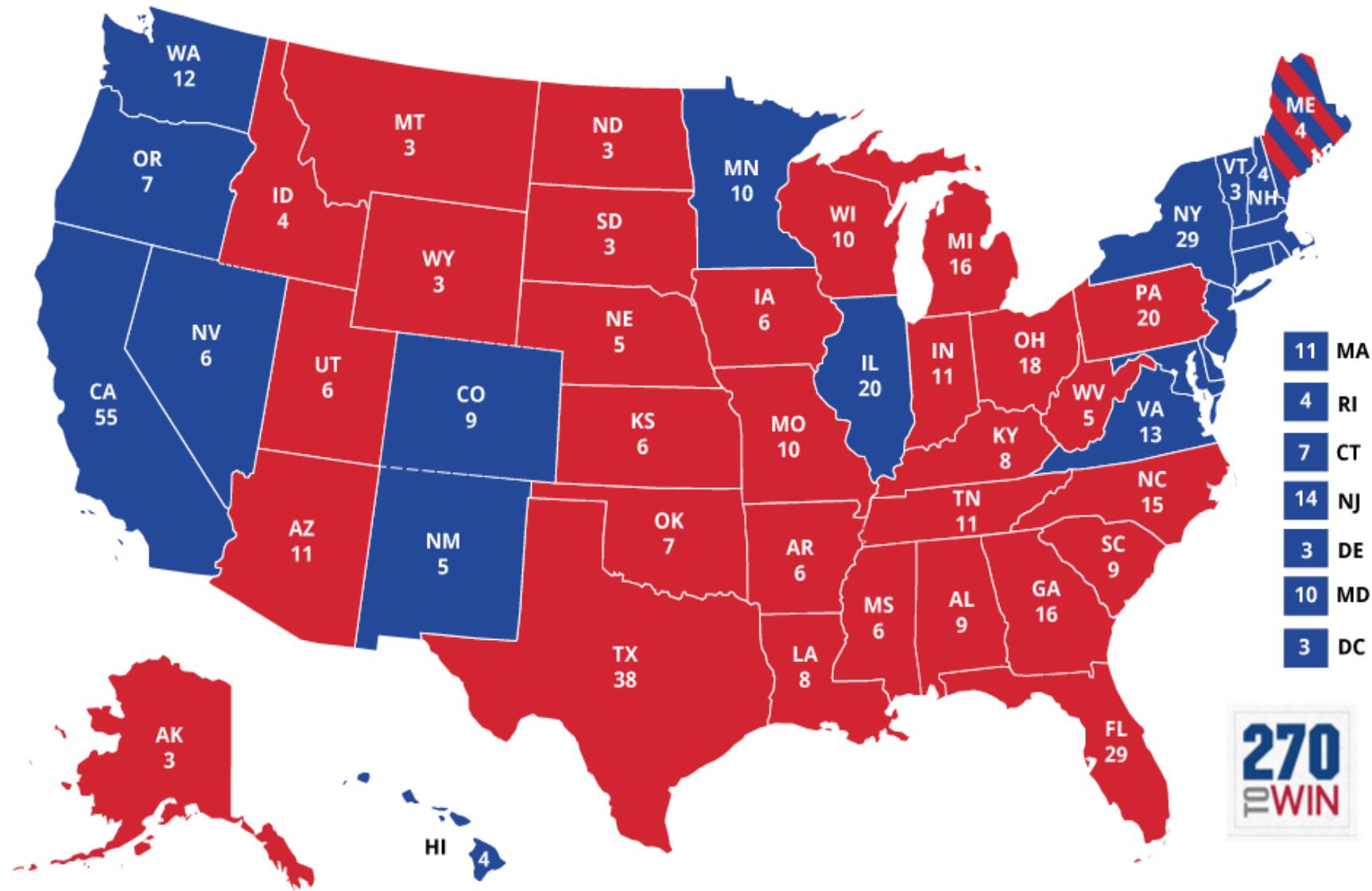
Une interface ouverte
sur le monde, qui organise
l'Asie Orientale.

Clinton

232

306

Trump



270
TO WIN

US Presidential Election 2016

Results mapped at county level showing the candidate with the largest vote share in each area

Overall result:

Trump
60,265,858 votes (47.3%)
290 electoral votes

Clinton
60,839,922 votes (47.8%)
228 electoral votes

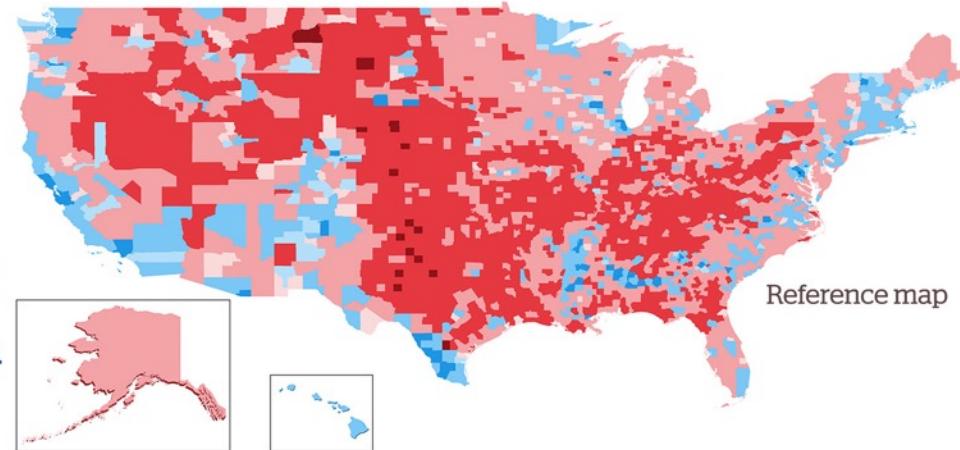
Other candidates
6,226,950 votes (4.9%)

Vote share
of candidate with most votes

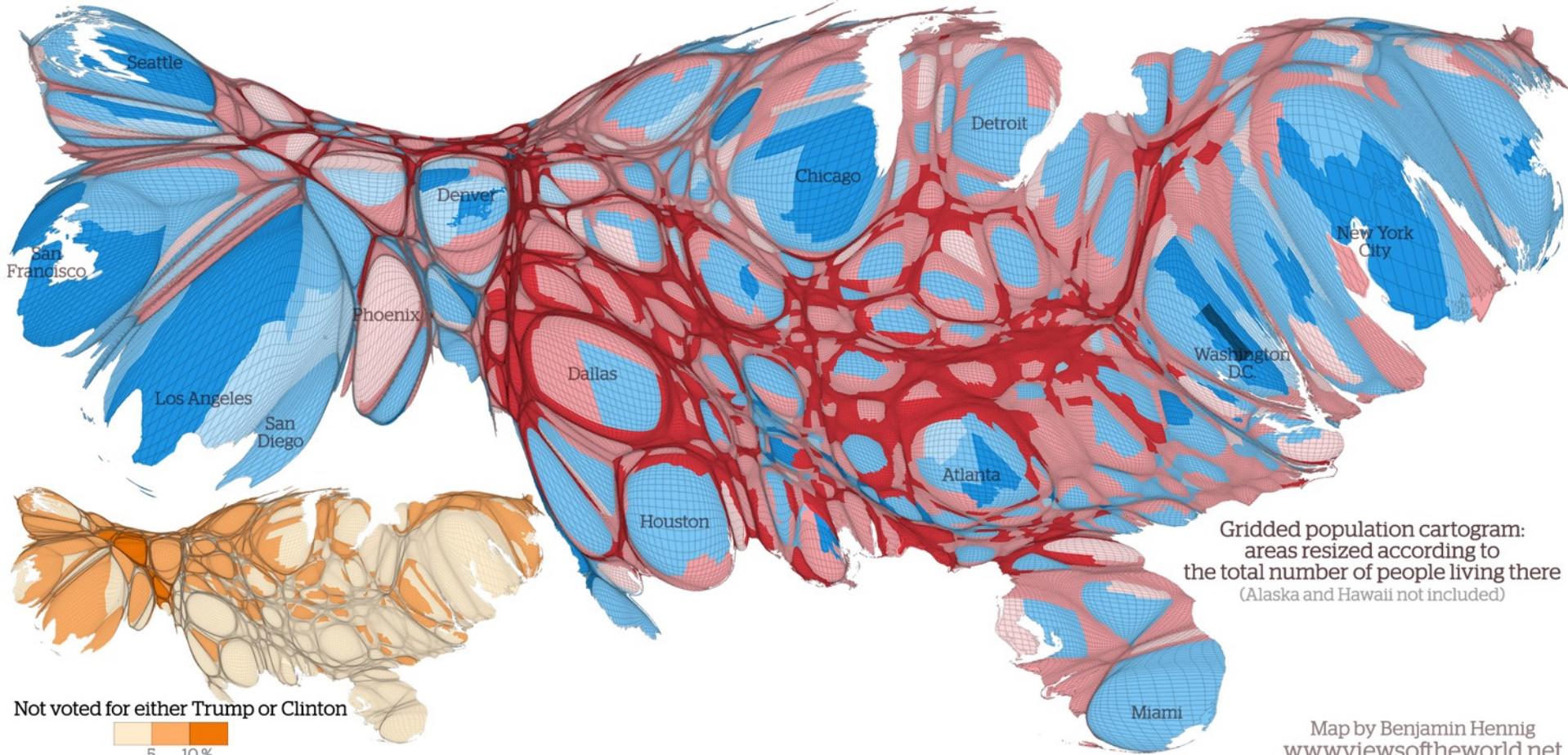
0 50 70 90%

Trump

Clinton



Reference map



Gridded population cartogram:
areas resized according to
the total number of people living there
(Alaska and Hawaii not included)

Not voted for either Trump or Clinton

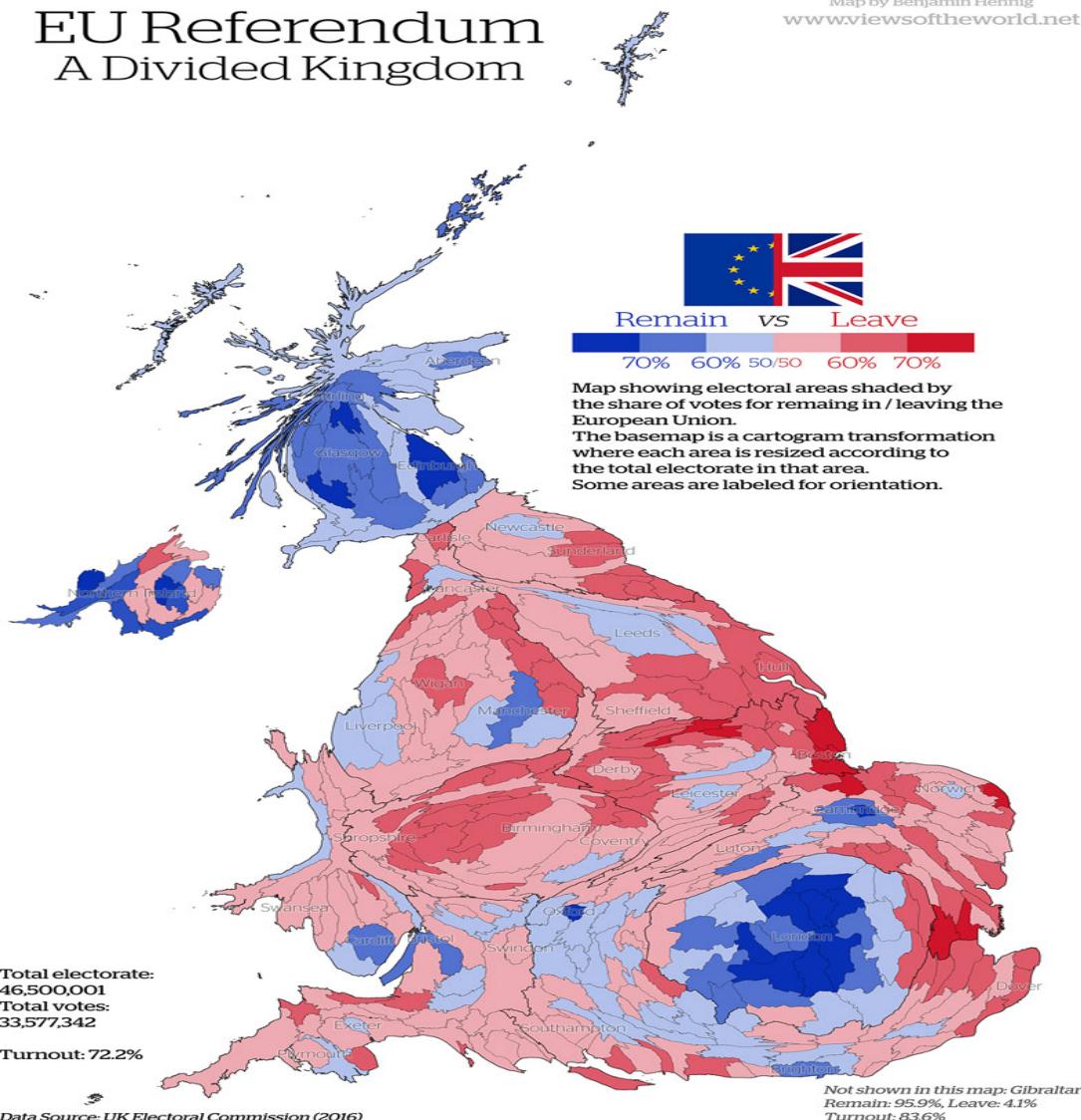
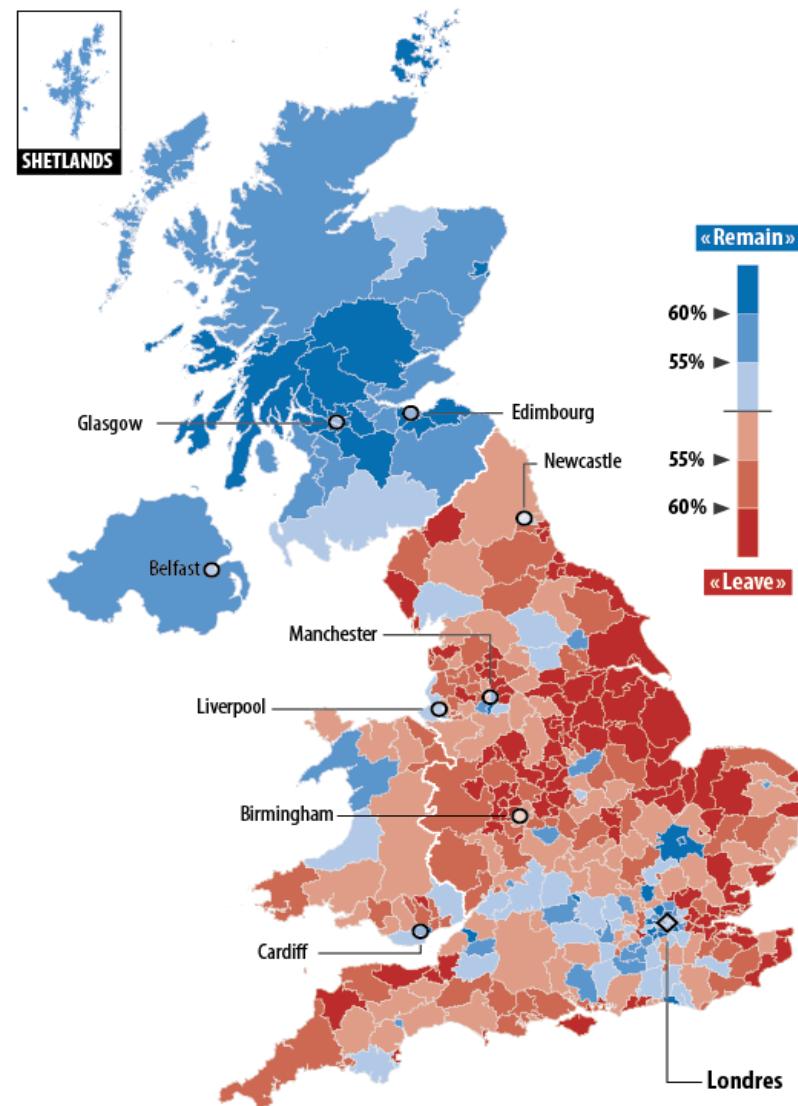
5 10 %

Map by Benjamin Hennig
www.viewsoftheworld.net

BREXIT

EU Referendum A Divided Kingdom

Map by Benjamin Hennig
www.viewsoftheworld.net



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DENSITÉ URBAINE



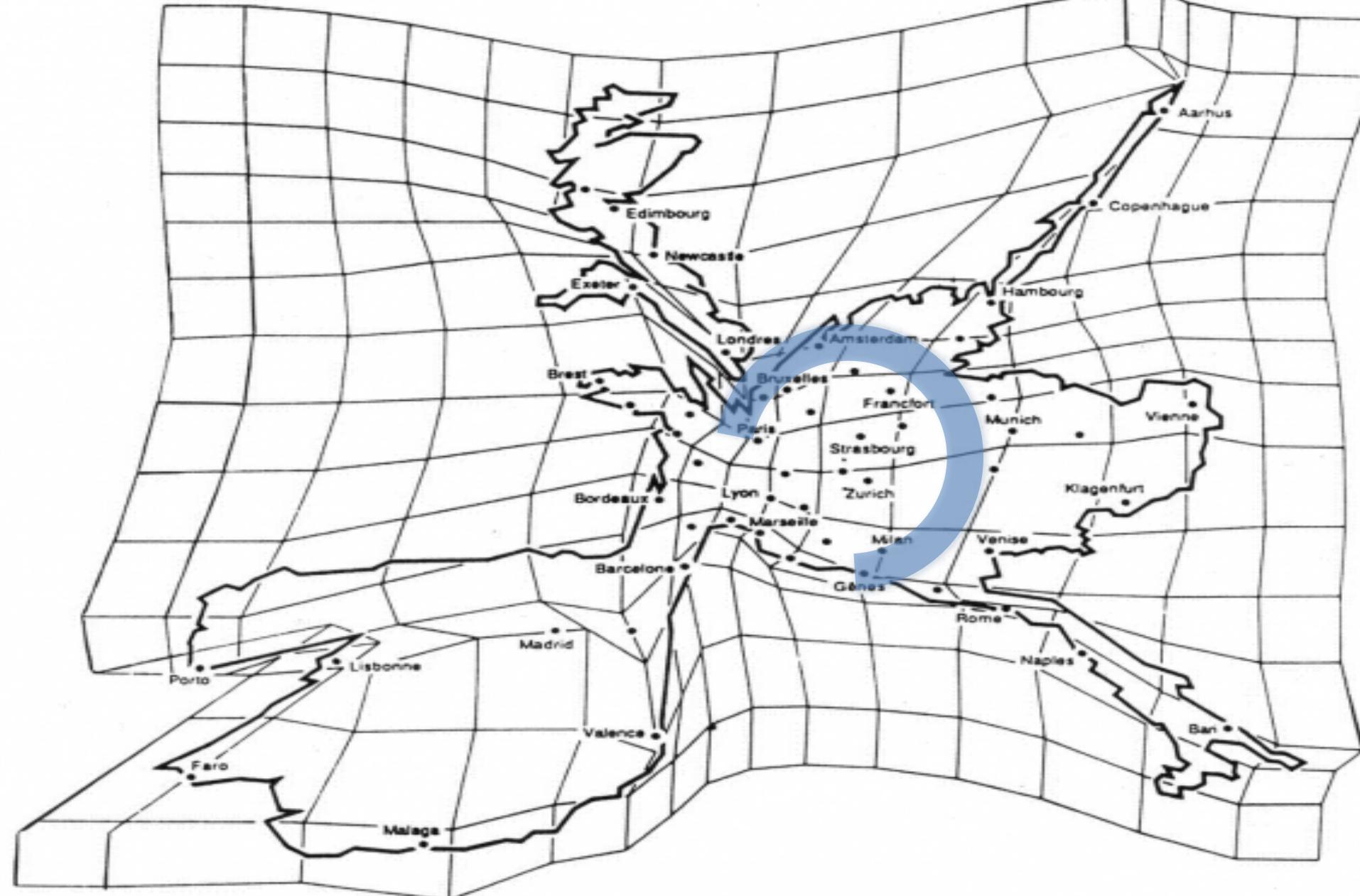
© Paul Kirby - LSE

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By Thomas Pesquet ESA

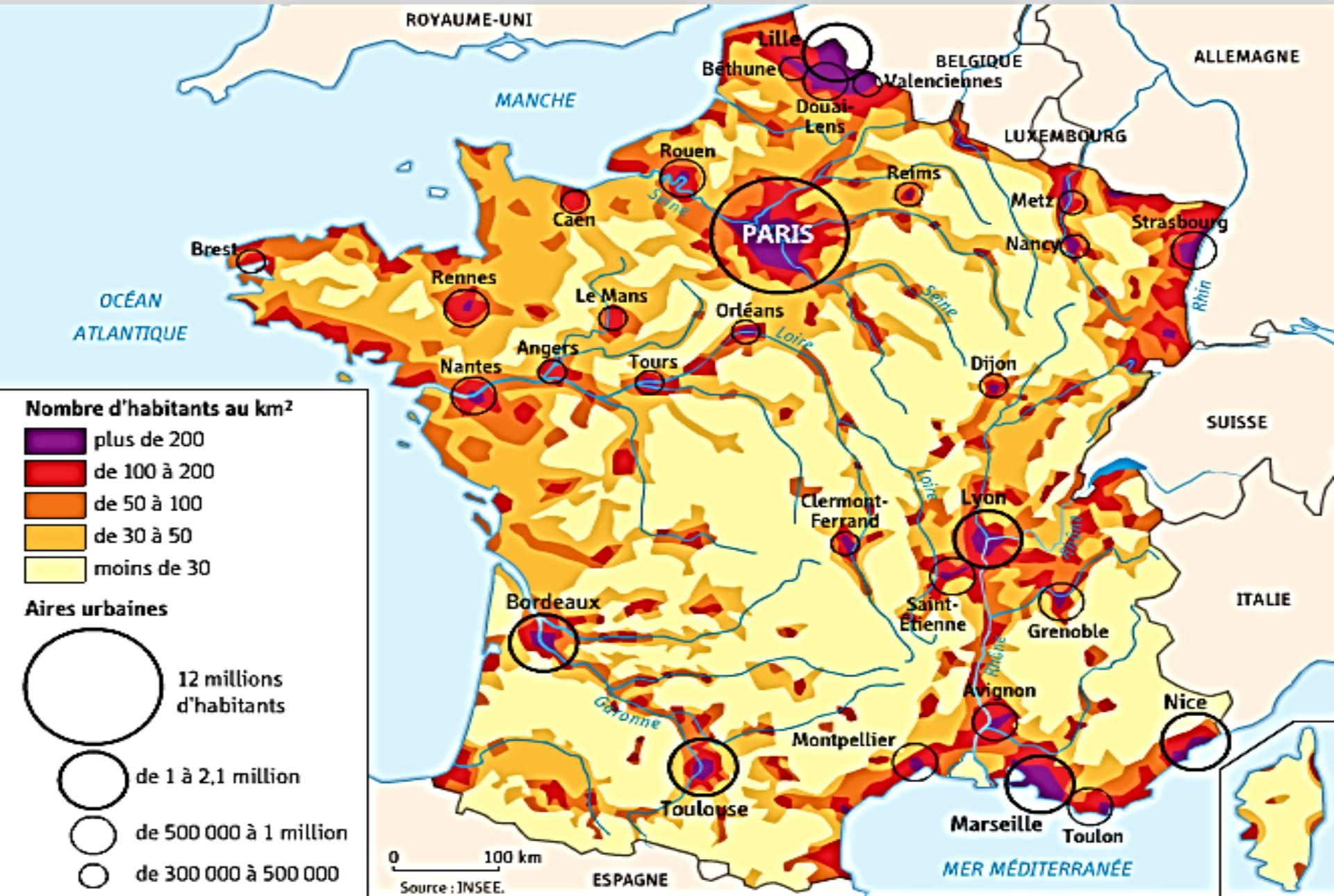
@CarlosMorenoFr





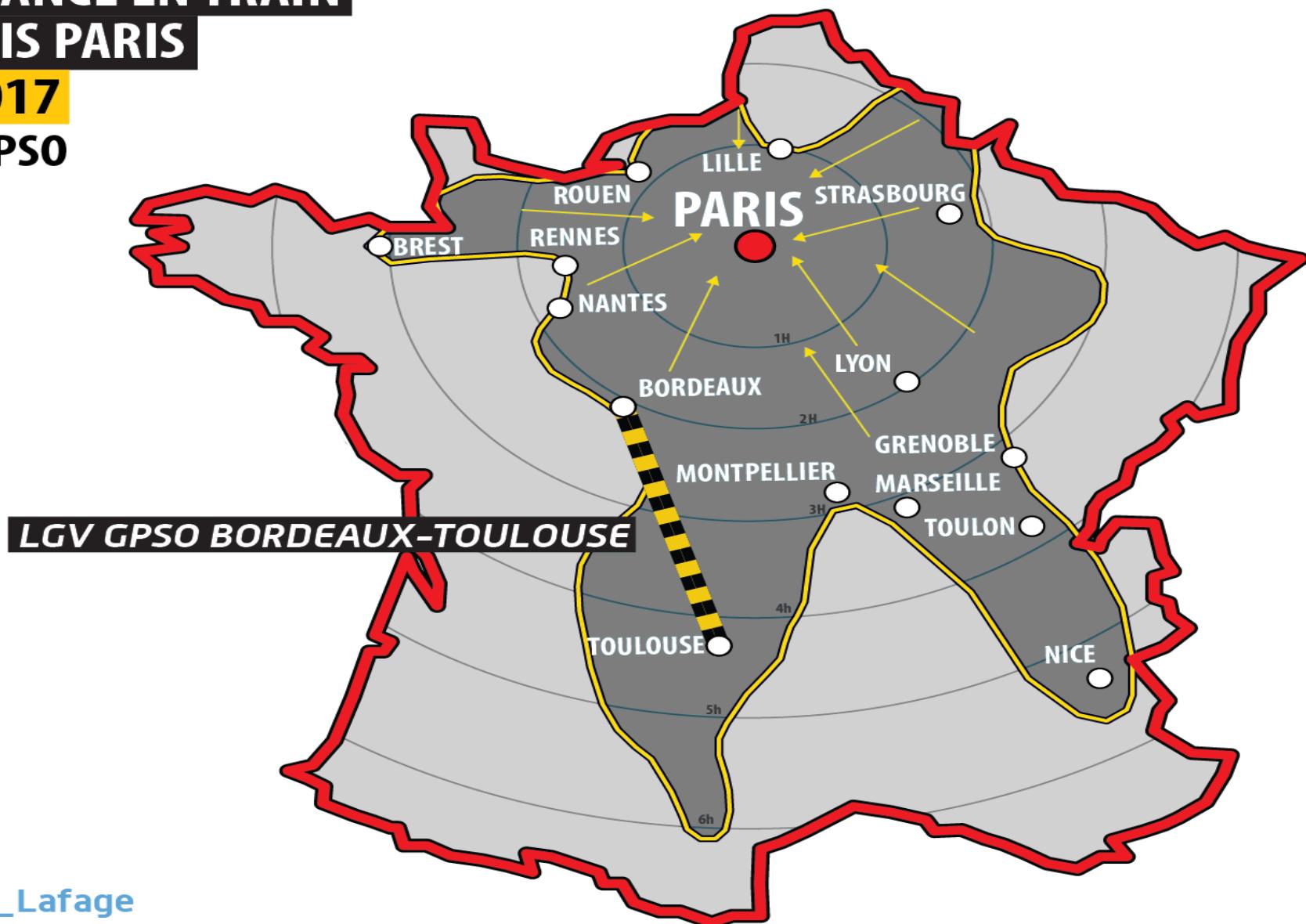
By Thomas Pesquet ESA

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LA FRANCE EN TRAIN DEPUIS PARIS EN 2017

#LGVGPSO



@M_Lafage

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DENSITÉ URBAINE FRANCE ALLEMAGNE

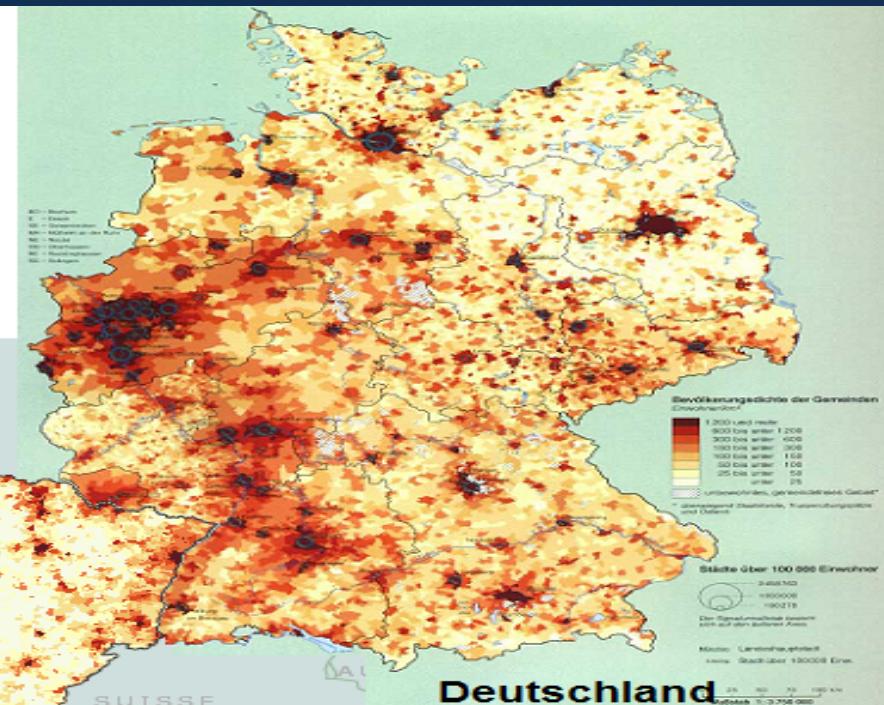
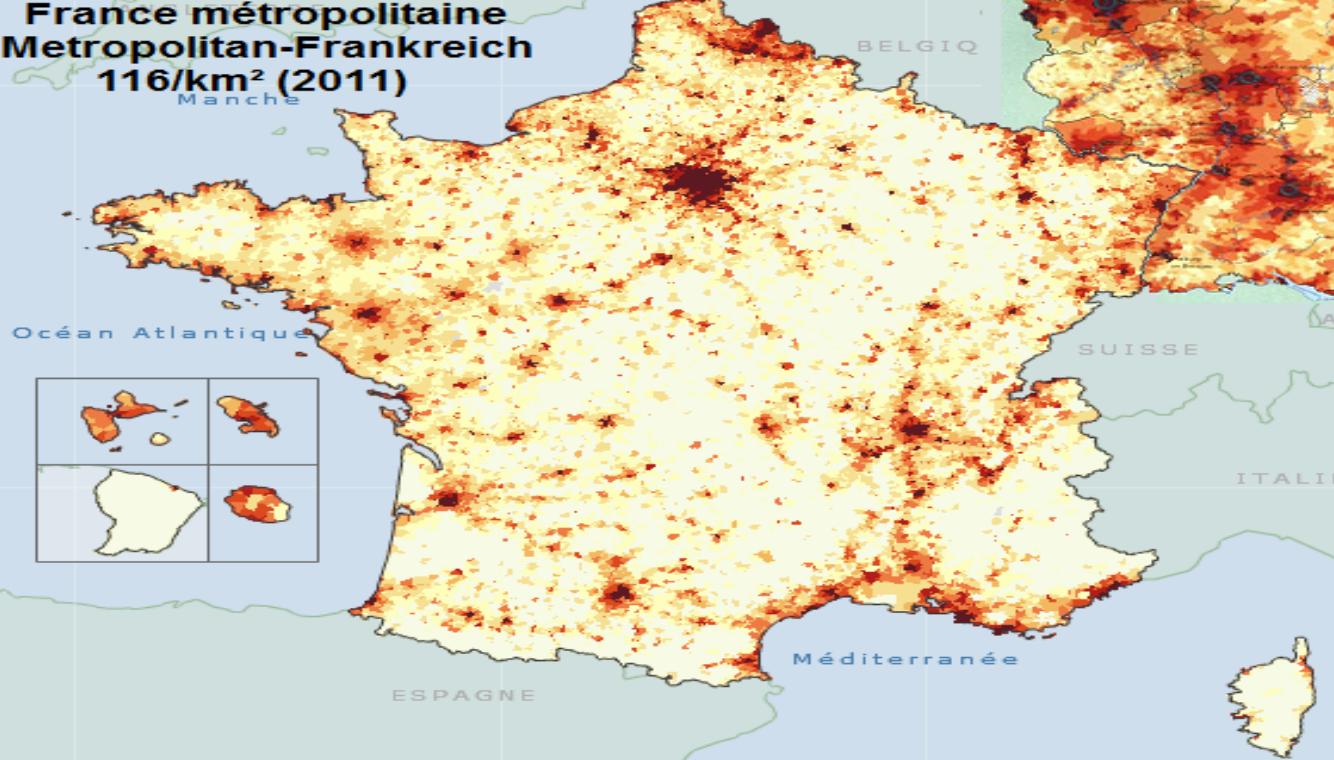
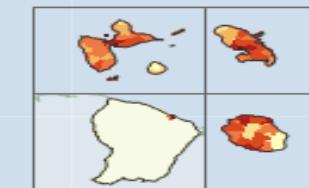
Densité de population Bevölkerungsdichte

(hbts/km² - Einw./km²)

0 à/bis 25
25 à/bis 50
50 à/bis 100
100 à/bis 150

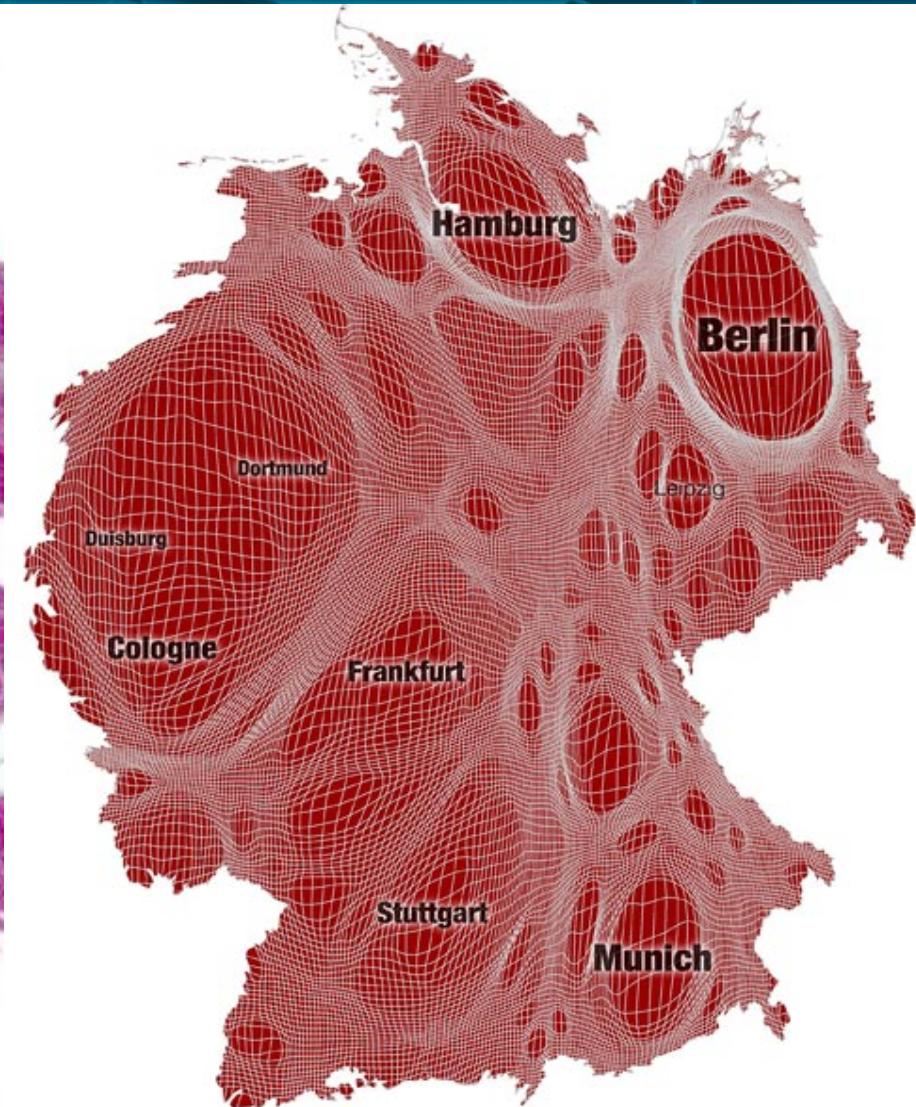
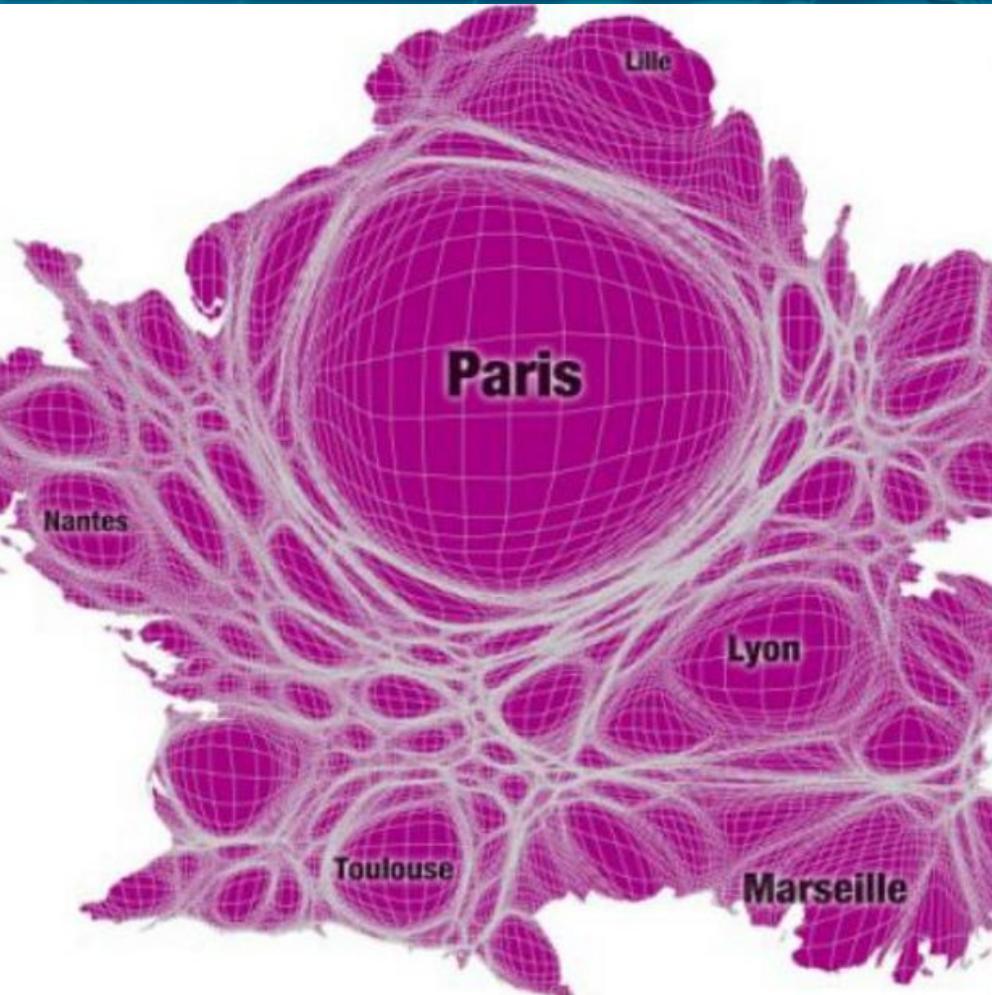
150 à/bis 300
300 à/bis 600
600 à/bis 1200
plus de/mehr als 1200

France métropolitaine
Metropolitan-Frankreich
116/km² (2011)



Deutschland
Allemagne
225/km² (2011)

DENSITÉ URBAINE FRANCE ALLEMAGNE

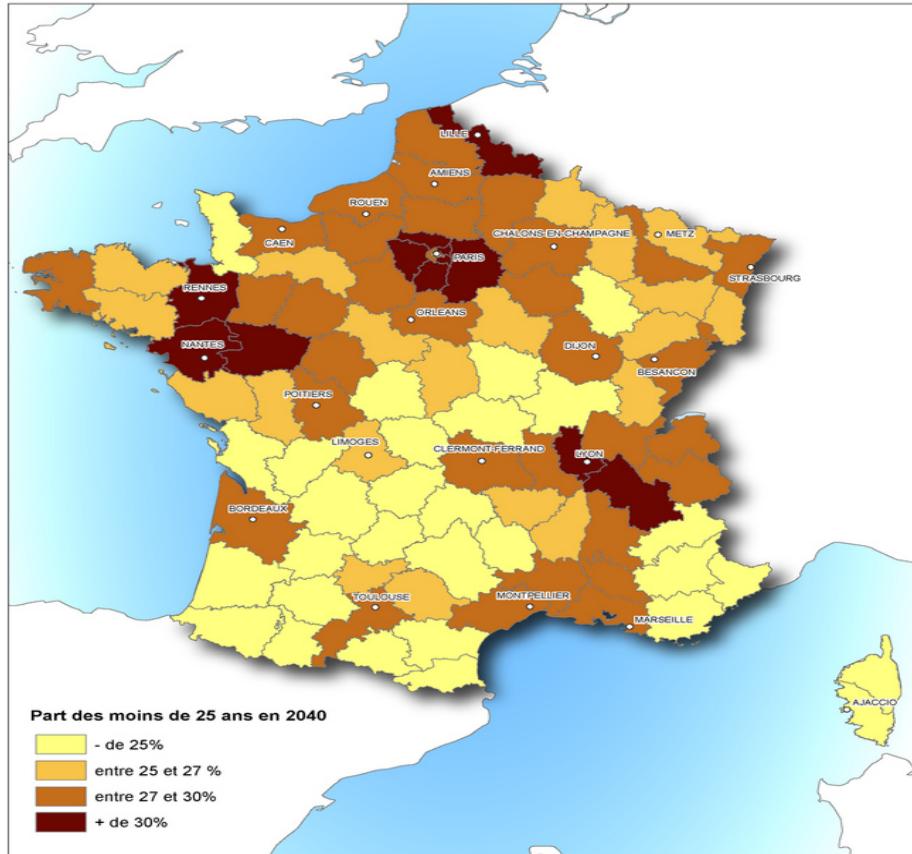


AGE DE LA POPULATION EN 2040



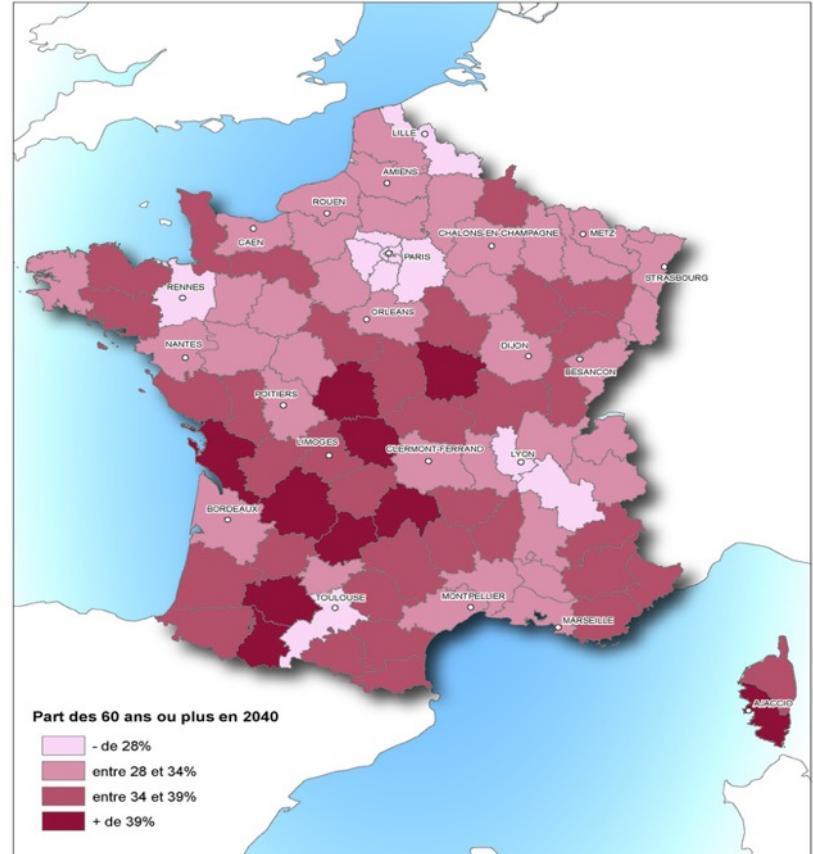
POPULATION

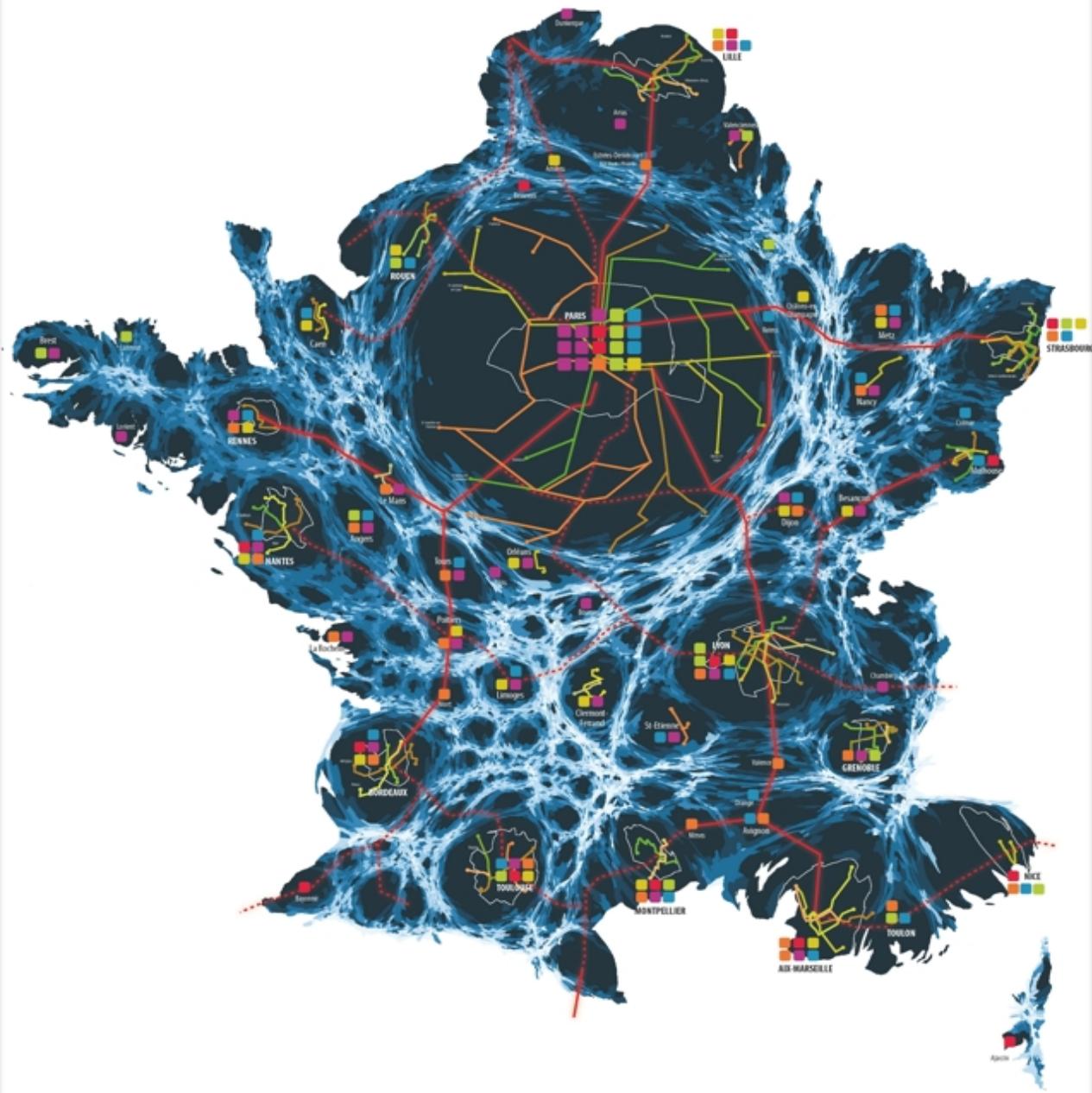
Population de moins de 25 ans projetée en 2040



POPULATION

Population de plus de 60 ans projetée en 2040



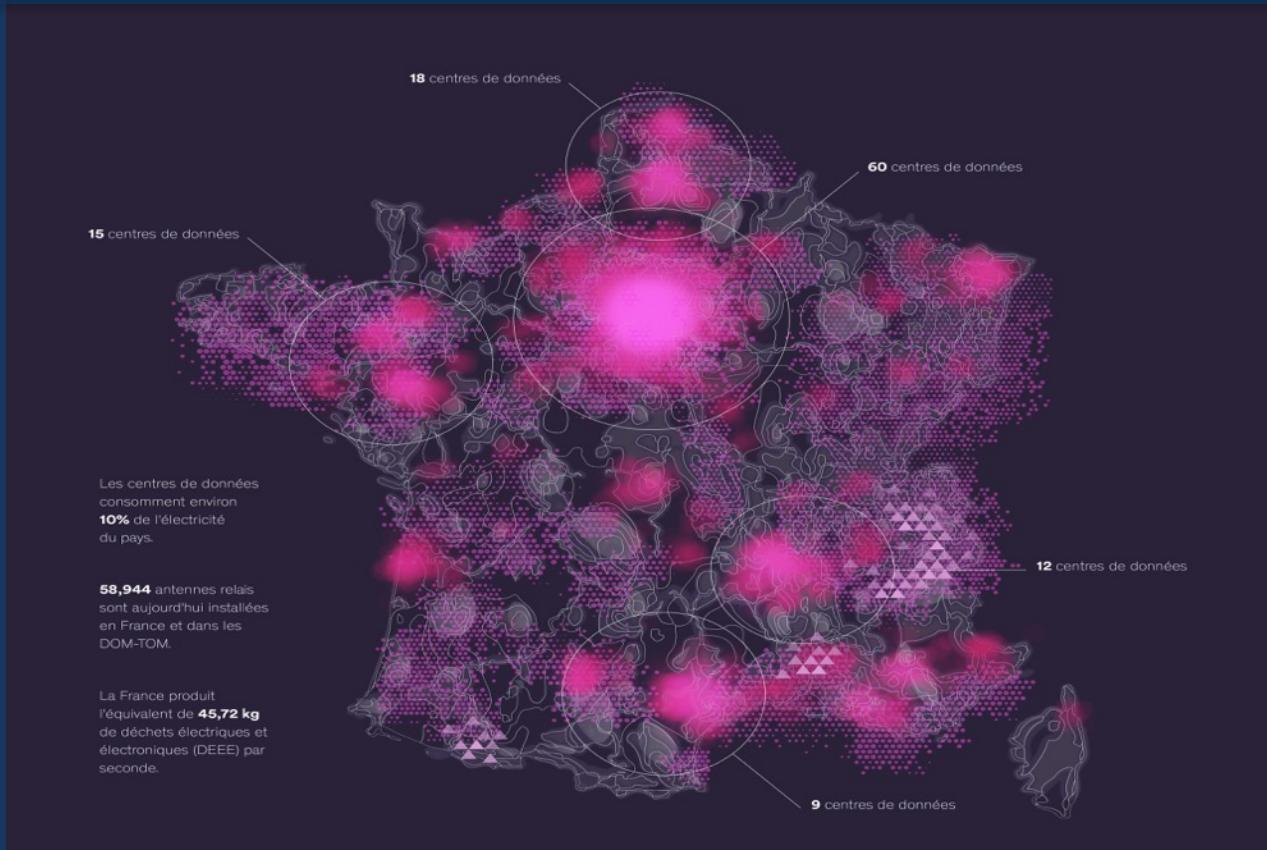


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LE DIGITAL TRAVERSE NOS VIES



NUMÉRIQUE, DATA ET TERRITOIRES



Smart Ma Ville?
スマート マ ヴィル



HABITAT III

THE UNITED NATIONS CONFERENCE ON HOUSING AND SUSTAINABLE URBAN DEVELOPMENT

2016

SUSTAINABLE DEVELOPMENT GOAL 11

Make cities and human settlements inclusive, safe, resilient and sustainable



TRANSFORMING OUR
WORLD:
THE 2030 AGENDA FOR
SUSTAINABLE
DEVELOPMENT



6 CITIES
AND
CIVIL
UNIONES

“And as the level of government closest to the people, municipalities have the capacity to transform lives and opportunities of citizens”

12 RELATIONSHIPS
AND
GOALS

UN HABITAT III



QUALITÉ DE VIE



Le Droit à la Ville ... Mais à quelle ville... ?

HUMAN

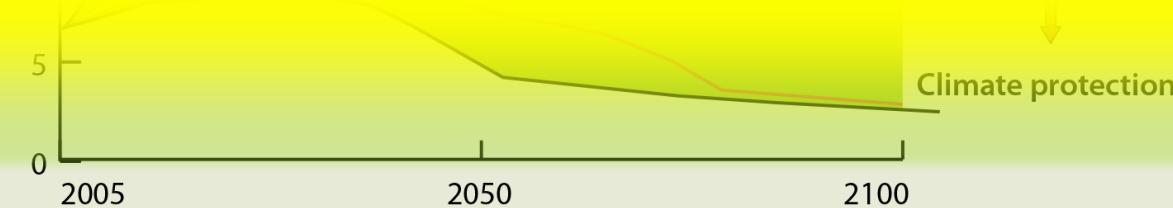
© Carmen Santana - ARCHIKUBIK

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The historical mitigation challenge

35
GtC

Durable Inclusive Résiliente Ma ville ?



Source: Edenhofer et. al. 2007

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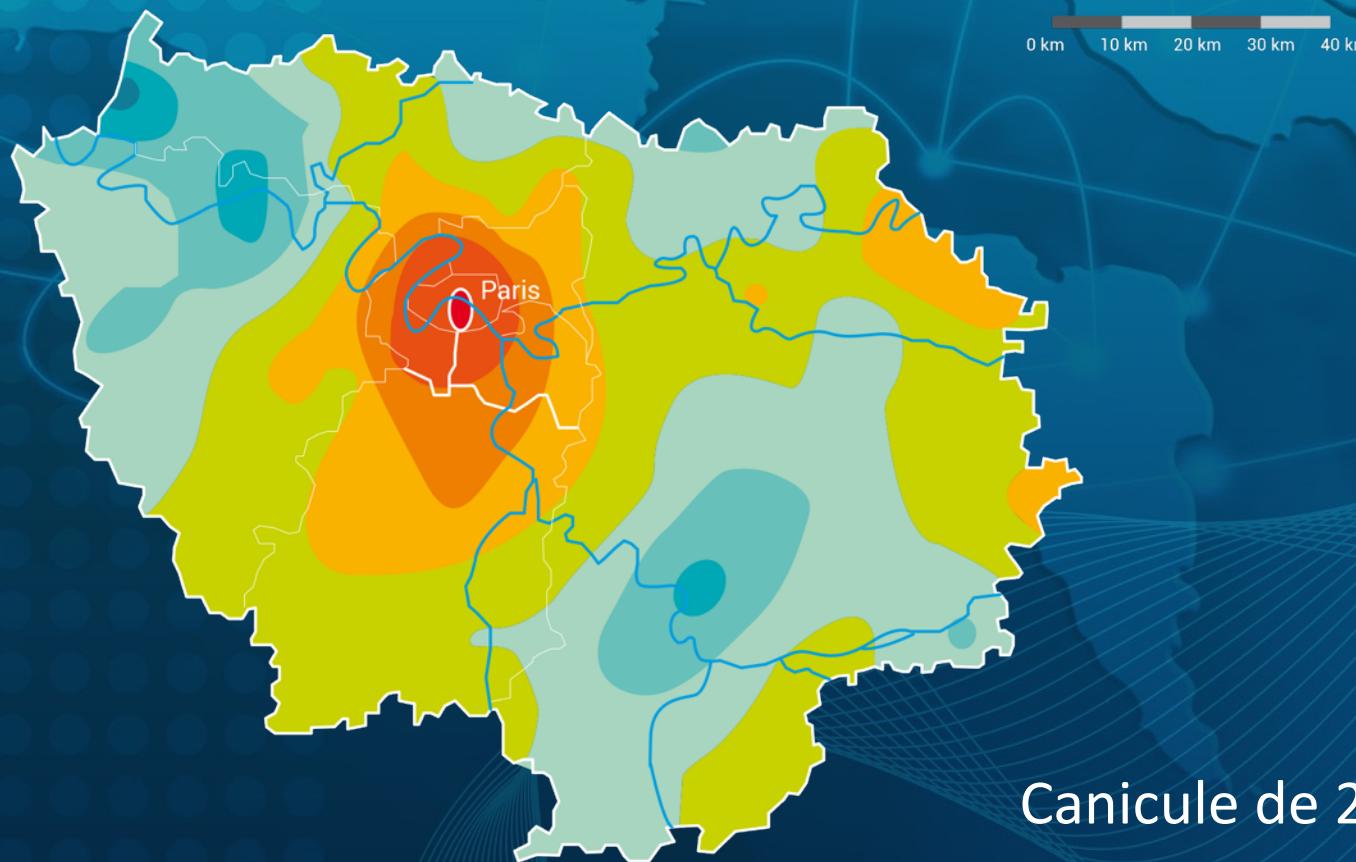
Due to recent
budget cuts, the
light at the end of
the tunnel has been
turned off.

DE NAIROBI À BEIJING





VULNERABILITÉ URBAINE



Canicule de 2003 à Paris



@CarlosMorenoFr

LINK BETWEEN AIR POLLUTION & HEART DISEASE

In 2004, the American Heart Association issued a scientific statement concluding exposure to air pollution contributes to cardiovascular illness and mortality



Over time, these pollutants reportedly aggravate or increase the process of disease in the arteries

Pollution particles smaller than 2.5 microns are tiny enough to enter the body, irritate the lungs and blood vessels around the heart

Short-term exposure can increase the risk of heart attack, stroke, arrhythmias and heart failure in susceptible people, such as the elderly or those with pre-existing medical conditions



"Lunch was delicious. Pollution was disgusting. Notice how dark it was. This photo was taken at noon." Hangzhou 2006
(From a private blog)



EL AUSTRAL EL DIARIO DE LA ARAUCANÍA

Temuco es la ciudad con peor contaminación del aire en América Latina

The London Evening Standard newspaper front page features a large headline "TOXIC LONDON" in bold capital letters. Below the headline is a photo of a man standing with his arms outstretched in front of a statue. To the right of the main headline, there is a sidebar with the text "Capital has more toxic particles in its air than other major Indian metros".



A large, tilted newspaper clipping from the London Evening Standard with the headline "DELHI IS INDIA'S ASTHMA CAPITAL" in large, bold, black letters. The article discusses high levels of Respirable Suspended Particulate Matter (RSPM) in Delhi, particularly near motorways, and links it to increased asthma rates. It quotes Meenal Dubey, a resident of New Delhi.

Demand for action over motorway air pollution

POLLUTED communities next to the M1 in Sheffield have made a renewed call for action to tackle emission levels.

The East End Quality of Life Initiative, which represents areas around Tinsley and Darnall, has spoken out after new research showed a link between exposure to air pollution and heart attacks.

Neighbourhoods close to the motorway experience spikes in pollution during rush hours.

A report by the Journal of the American Medical Association looked at 34 studies comparing the risk of a heart attack at various levels of inhaling industrial and traf-

fic-related air pollutants including carbon monoxide, nitrogen dioxide and small soot-like particles.

It said: "For most of the pollutants, an increase in concentration of 10 micrograms per cubic metre of air – the typical standard used to assess harm, and barely noticeable to a person breathing the air – was associated with a 1-3 per cent increase in the chance of having a heart attack in the next week."

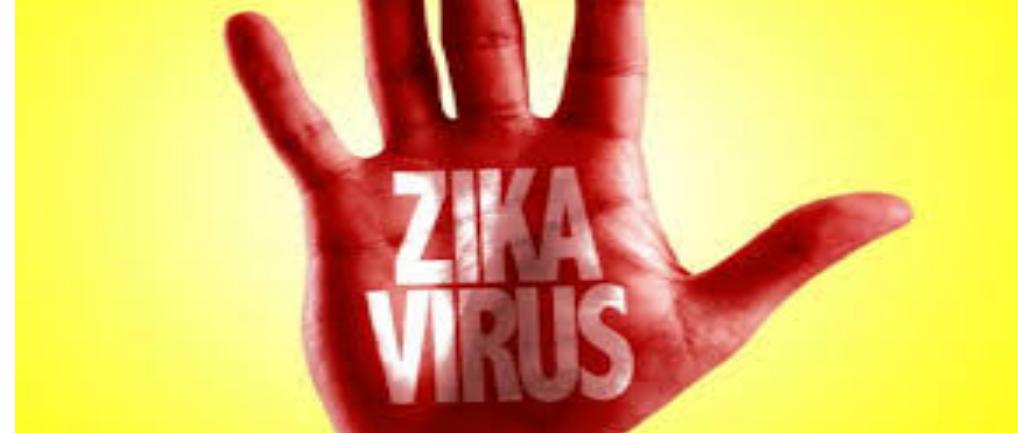
Neil Parry, of the quality of life initiative, said: "This is more evidence of the need to cut pollution in and around Tinsley and the rest of the city. The most vulnerable in our communities are worst affected."



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COP22 | CMP12 | CMA1

UN CLIMATE CHANGE CONFERENCE

مؤتمر الأمم المتحدة للتغير المناخي

+ՀԱՅ+ | +ՀՀՀ+ | ՀՀ ՀՅԻՒՆ | ՅԻՒՆ



UNFCCC COP 23

BONN

Conférence sur les Changements Climatiques 2015

COP21/CMP11

Paris, France







Métabolisme urbain



LES DÉFIS DE LA VILLE POUR TOUS



NOS LEVIERS DE TRANSFORMATION



SOCIALE



INNOVATION



URBAINE

RE INVENTER... LA VILLE POUR TOUS



HYBRIDATION SOCIALE TECHNOLOGIQUE DE LA VILLE



HYPER PROXIMITÉ ET LIEN SOCIAL

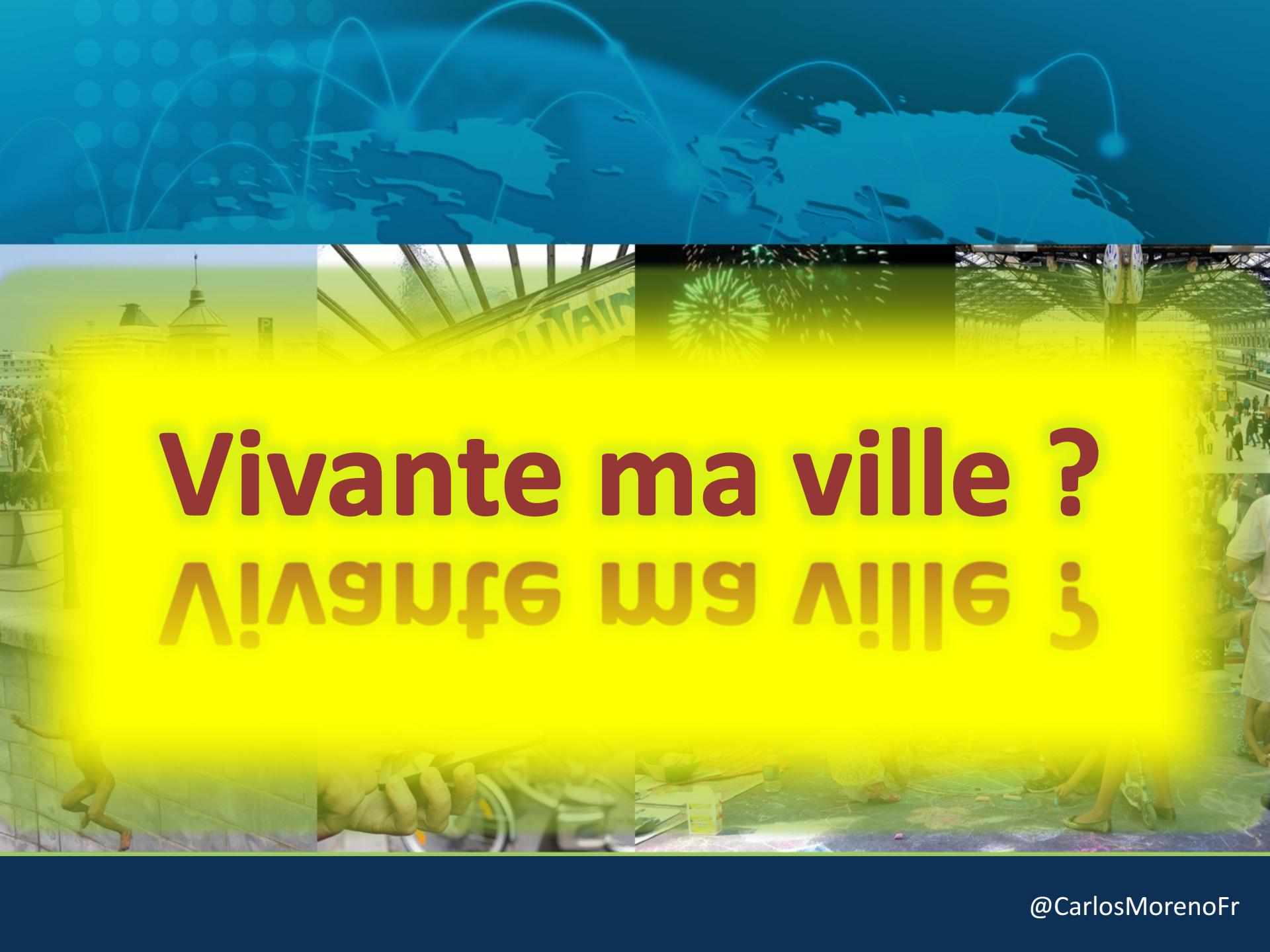


Collaborative ma ville?

collaborative my city?

why does it work





Vivante ma ville ?

ΛΙΛΑΝΤΕ ΜΑ ΒΙΛΛΕ ;



RE INVENTER

la vie dans nos villes



MERCI

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