

Pierre Ozer

A group of people, including men, women, and children, are wading through floodwaters in an urban area. The water is murky and reaches up to their thighs. Some people are wearing colorful clothing, while others are in more practical, weather-appropriate attire like raincoats and head coverings. In the background, there are buildings and a red metal gate. The overall scene depicts a community affected by flooding.

# Introduction aux risques et catastrophes

## PRELUDE

2020

**Nous vivons dans la pelure d'un fruit...**



# ... et nous sommes de plus en plus nombreux ...

Number of people living worldwide since 1700 in billions

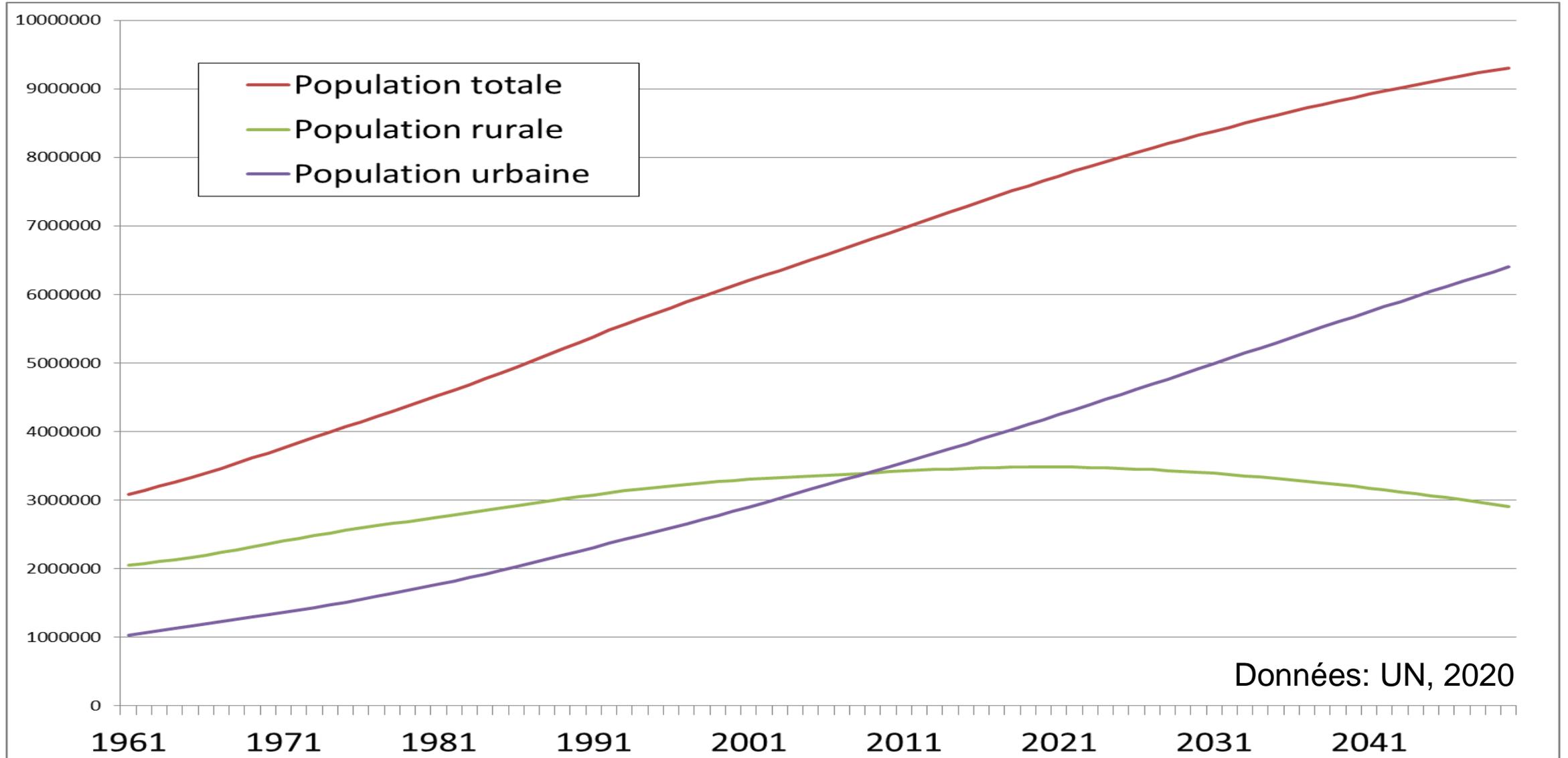


Source: United Nations World Population Prospects, Deutsche Stiftung Weltbevölkerung

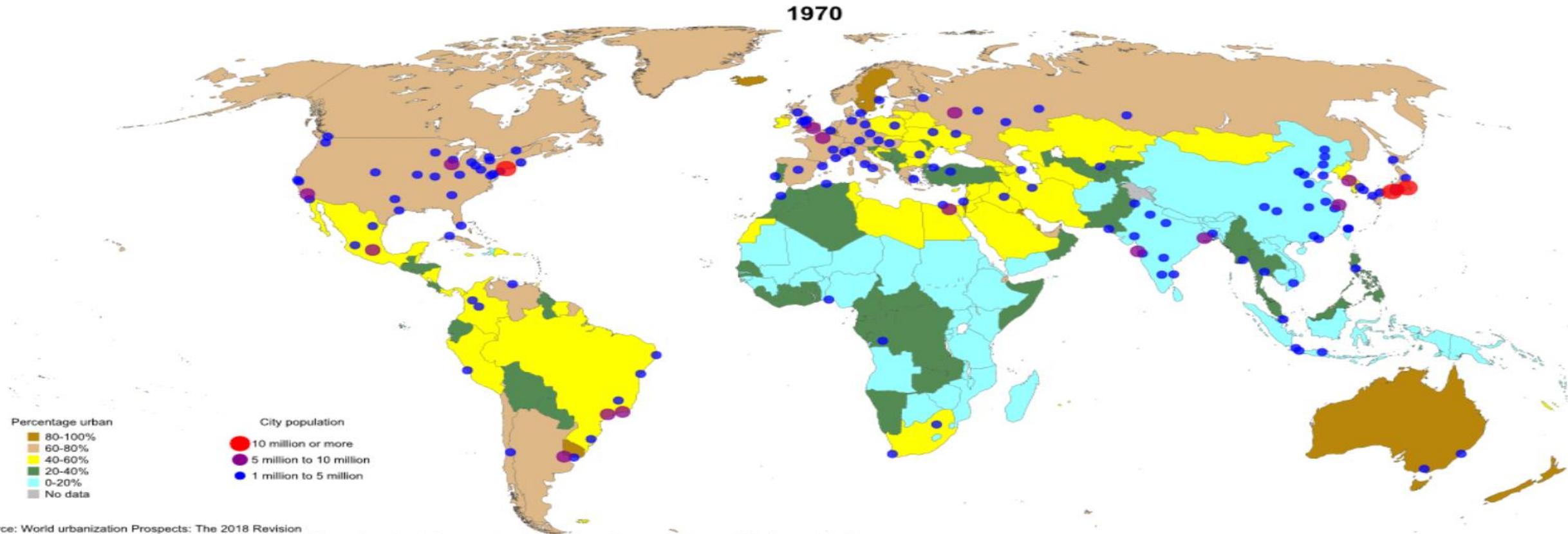
For further information please visit: [www.knowledge.allianz.com](http://www.knowledge.allianz.com)

# ... et de plus en plus concentrés ...

Population mondiale (x1000) de 1961 à 2020 et prévisions (2021-2050)



# ... et de plus en plus concentrés ...



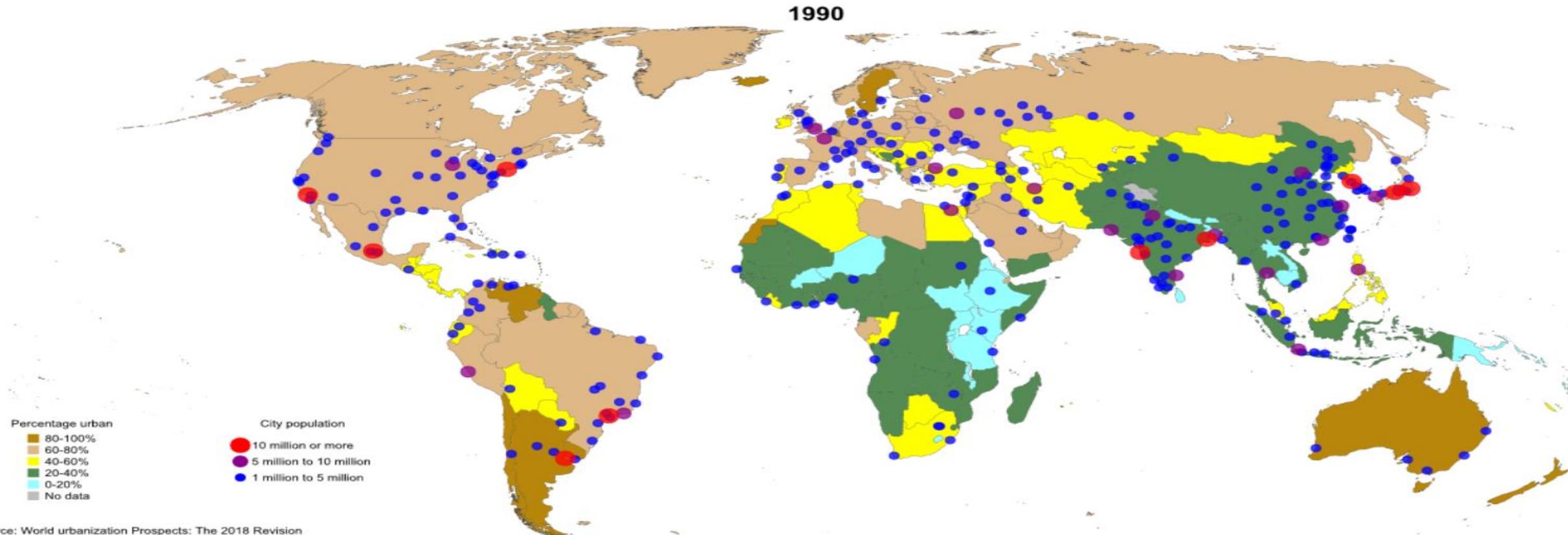
Data source: World urbanization Prospects: The 2018 Revision

The designations employed and the presentation of material on this map do not imply the expression of any opinion whatsoever on the part of the Secretariat of the United Nations 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 line represents approximately the Line of Control in Jammu and Kashmir agreed upon by India and Pakistan. The final status of Jammu and Kashmir has not yet been agreed upon by the parties. Final boundary between the Republic of Sudan and the Republic of South Sudan has not yet been determined. A dispute exists between the Governments of Argentina and the United Kingdom of Great Britain and Northern Ireland concerning sovereignty over the Falkland Islands (Malvinas).

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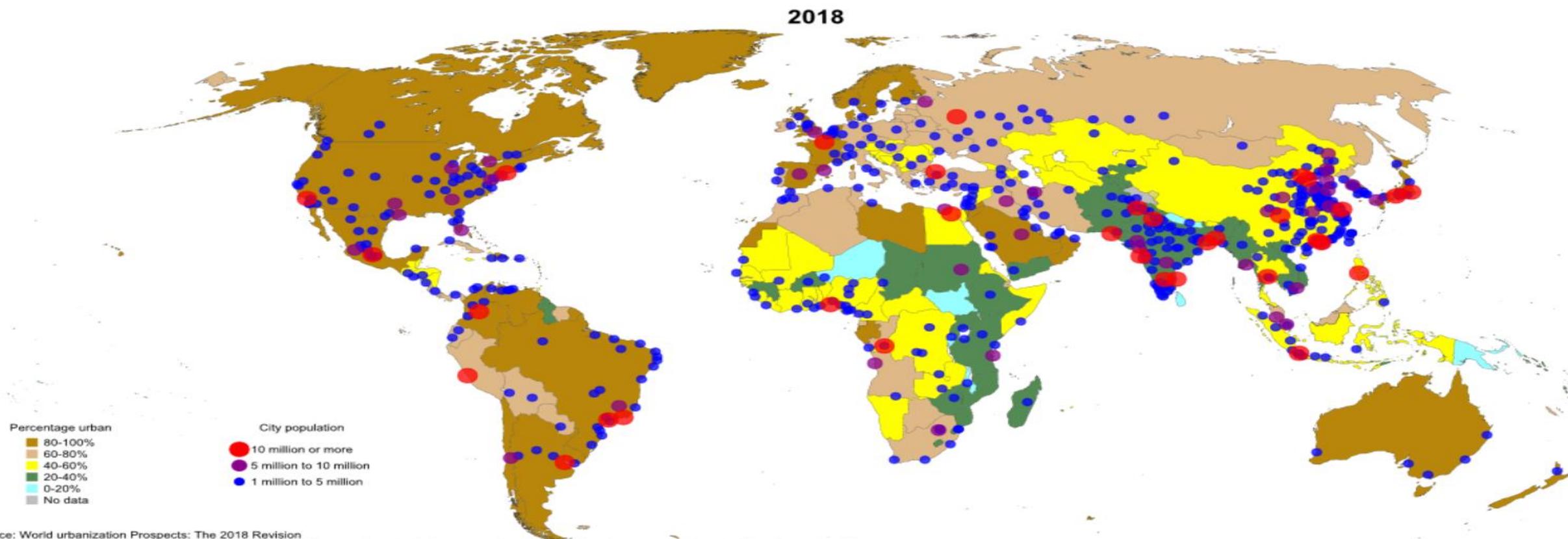


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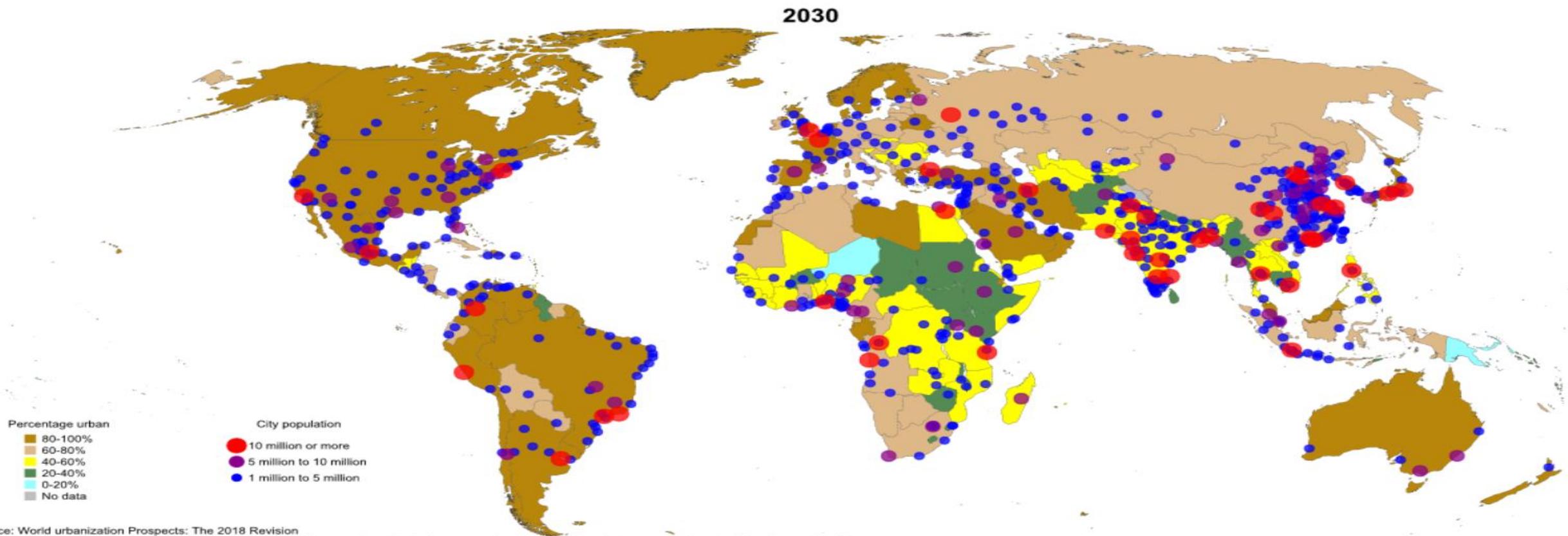


Data source: World urbanization Prospects: The 2018 Revision  
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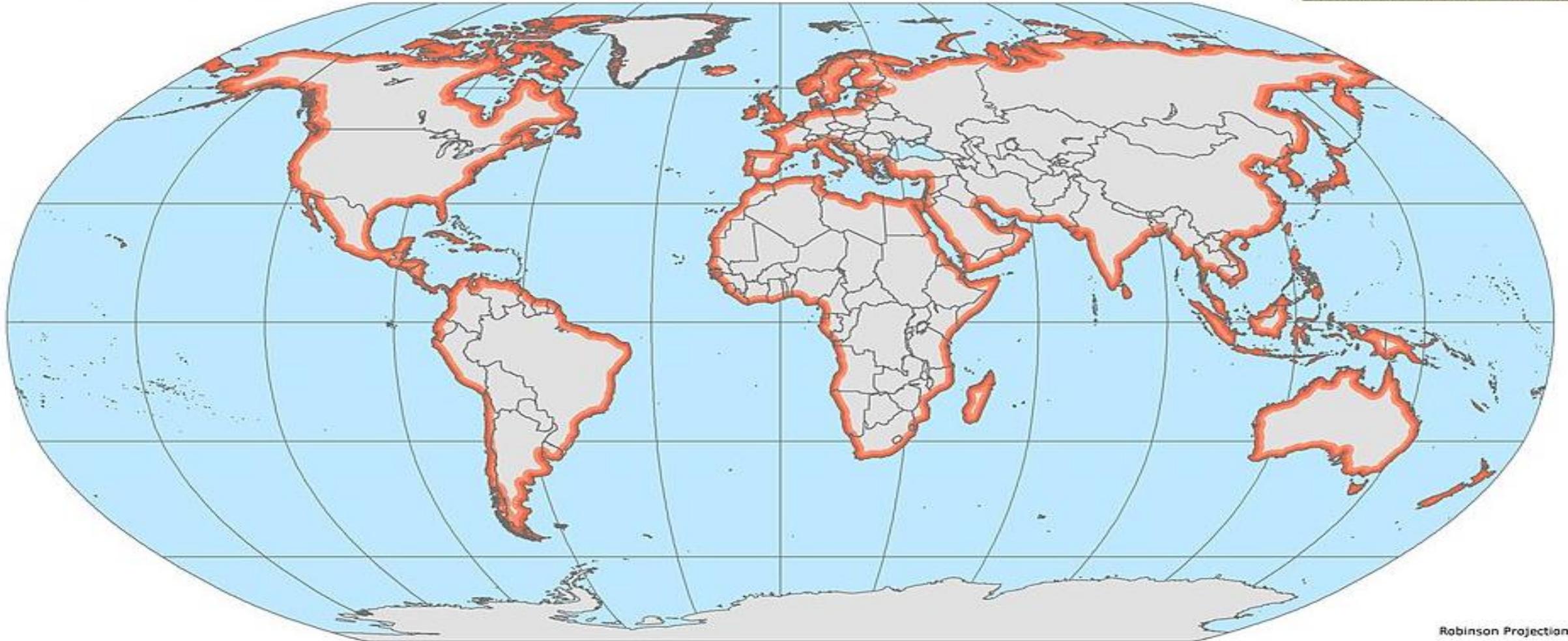
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# ... concentrés le long des côtes (50% de la population mondiale)...

National Aggregates of Geospatial Data Collection

PLACE III   
Population, Landscape, and Climate Estimates



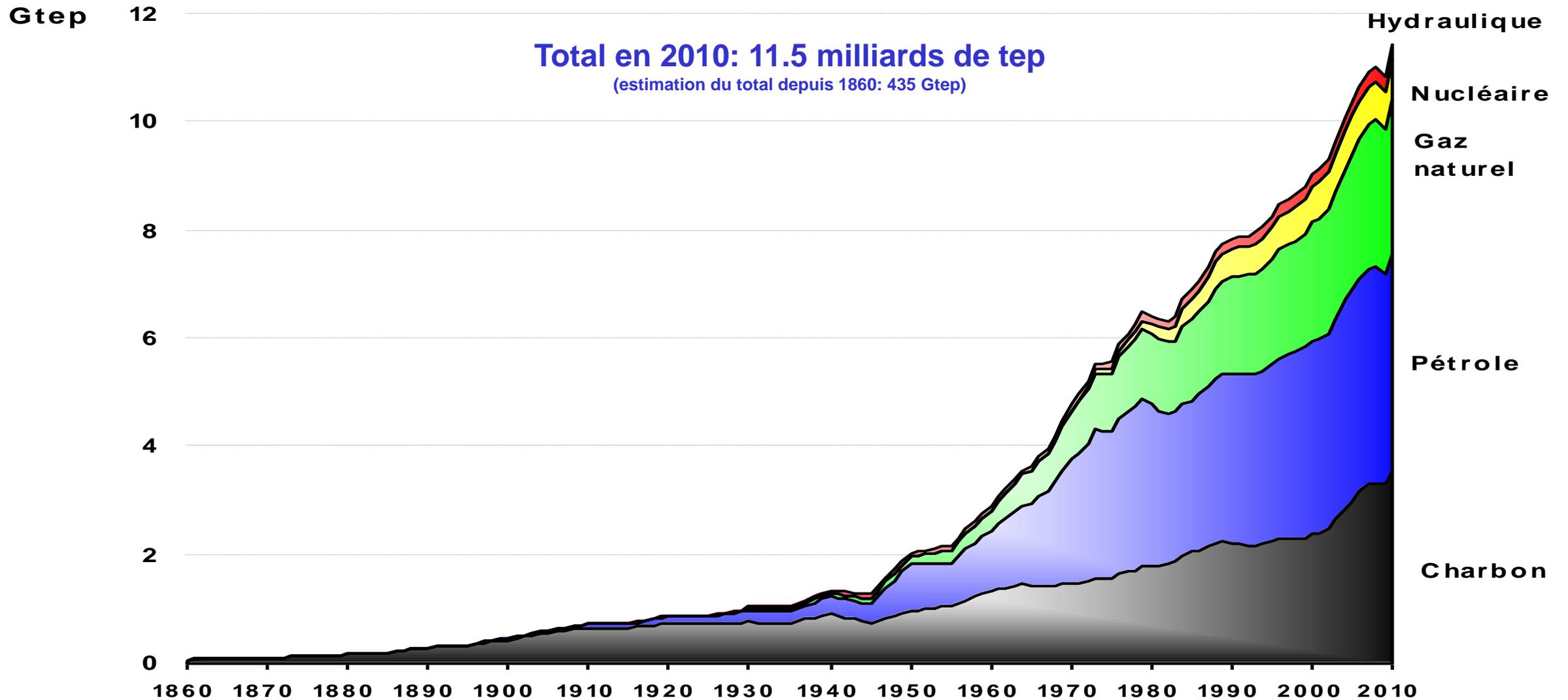
Coastal proximity zones (regions within 5, 10, 100, or 200 km of a coast) were created from the GRUMPv1 shoreline vector layer. The vector layer was first converted into points and densified, then geodesic buffers (5 km, 10 km, 100 km, and 200 km) were created from shoreline vertices and dissolved into polygon features, finally, the polygons were clipped to include just the inland portions of the buffer zones.

Coastal regions within:

5 km 10 km 100 km 200 km



# ... avec des besoins énergétiques croissants ...

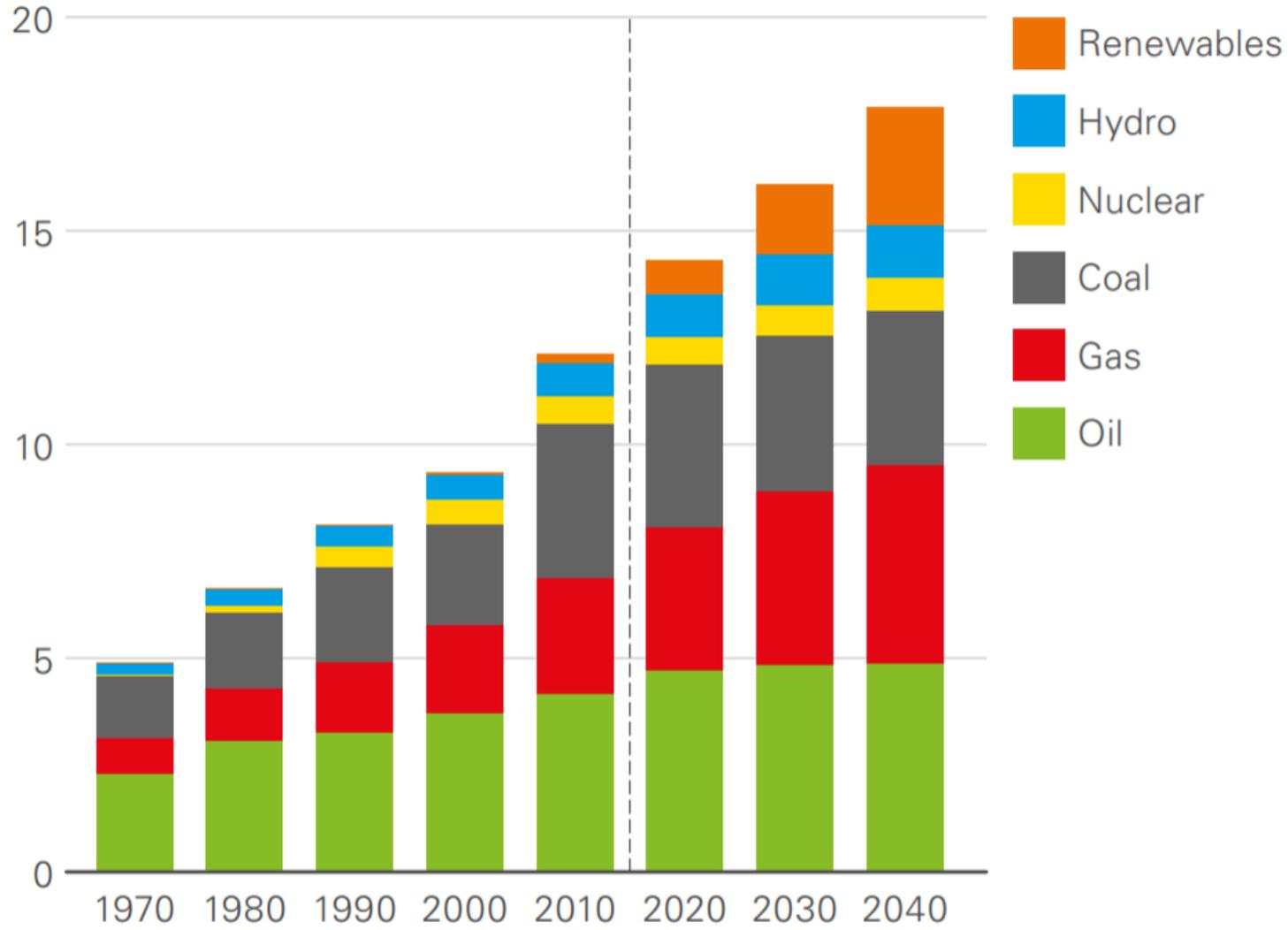


Source BP Statistical Review of World Energy June 2011, AIE  
(\* ) énergies commerciales uniquement: hors bois, déchets, énergies solaire et éolienne, géothermie...  
nucléaire = chaleur nucléaire = production électrique d'origine nucléaire / 33%  
hydraulique = production d'électricité hydraulique

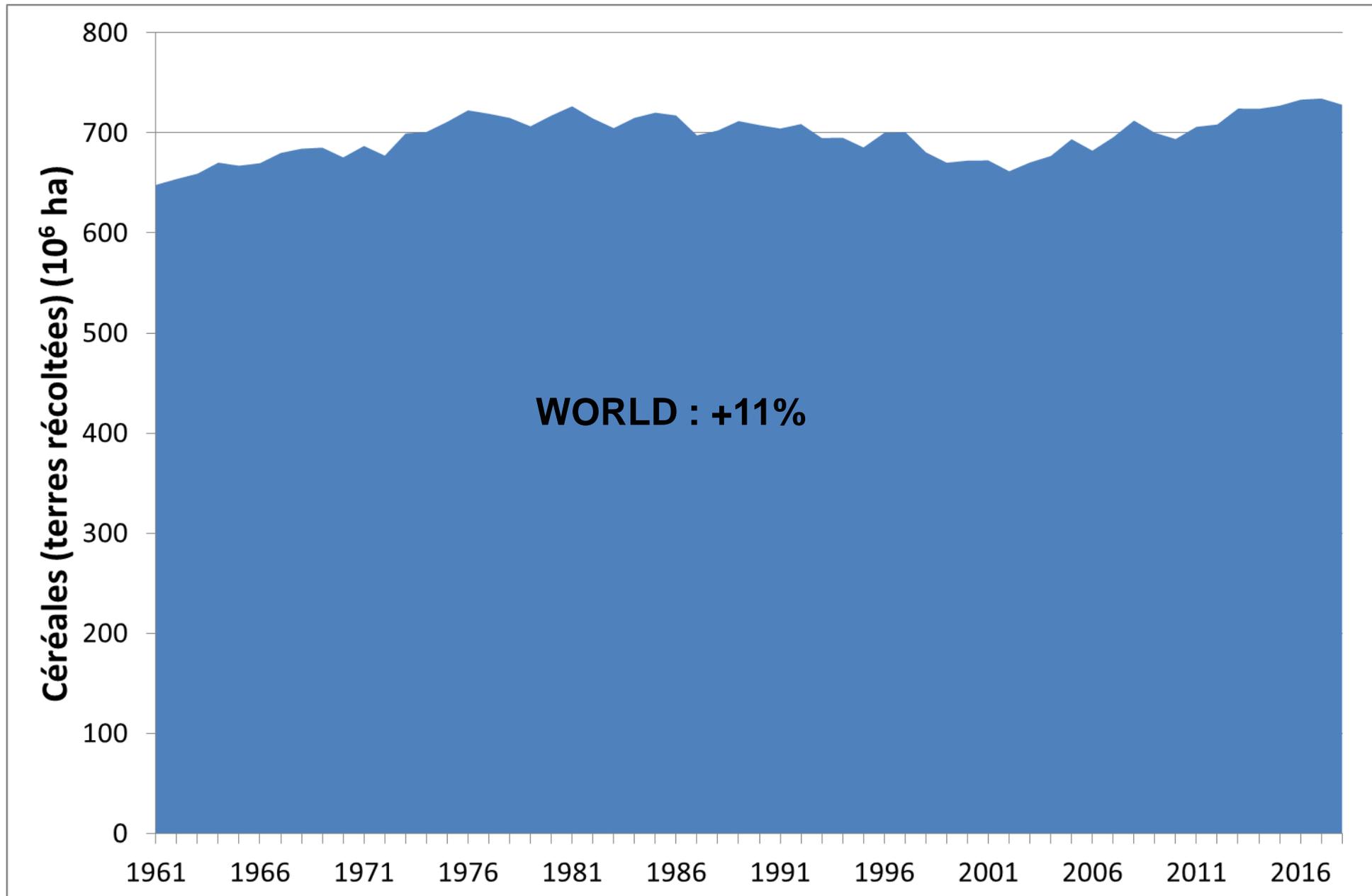
# ... avec des besoins énergétiques croissants ...

## Primary energy consumption by fuel

Billion toe

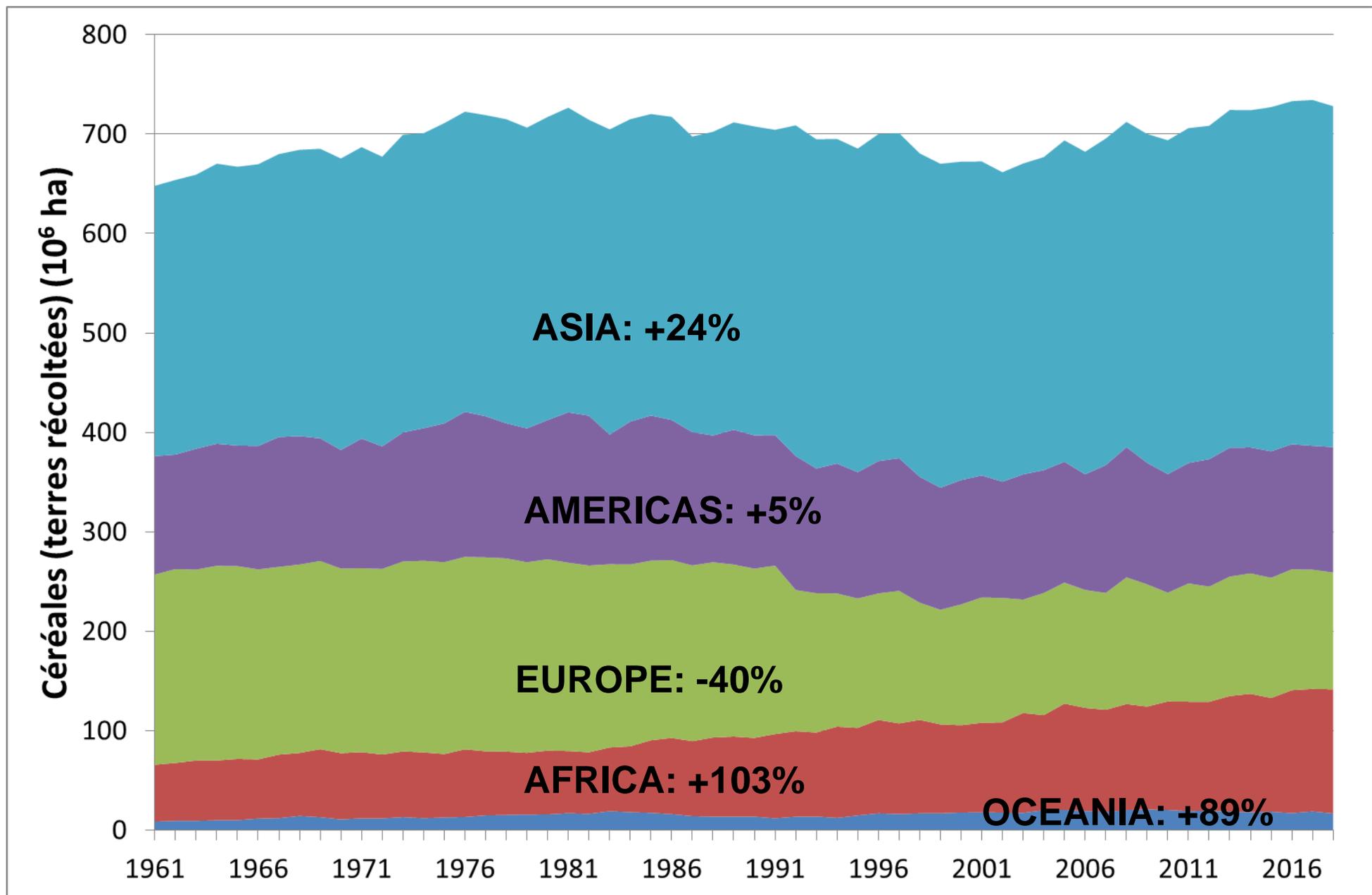


# ... avec des besoins alimentaires croissants ...



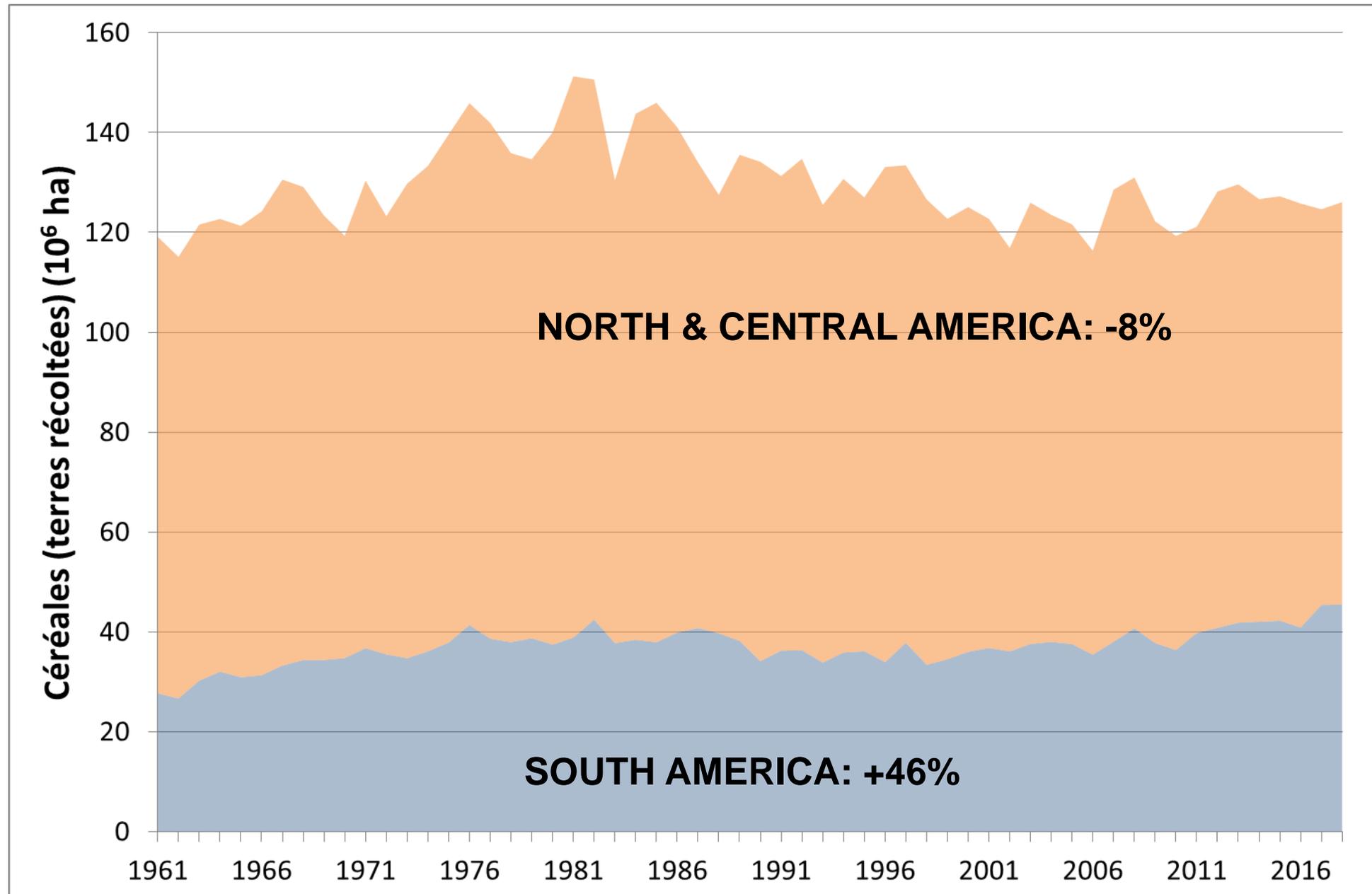
D'après  
FAOSTAT  
2020

# ... avec des besoins alimentaires croissants ...



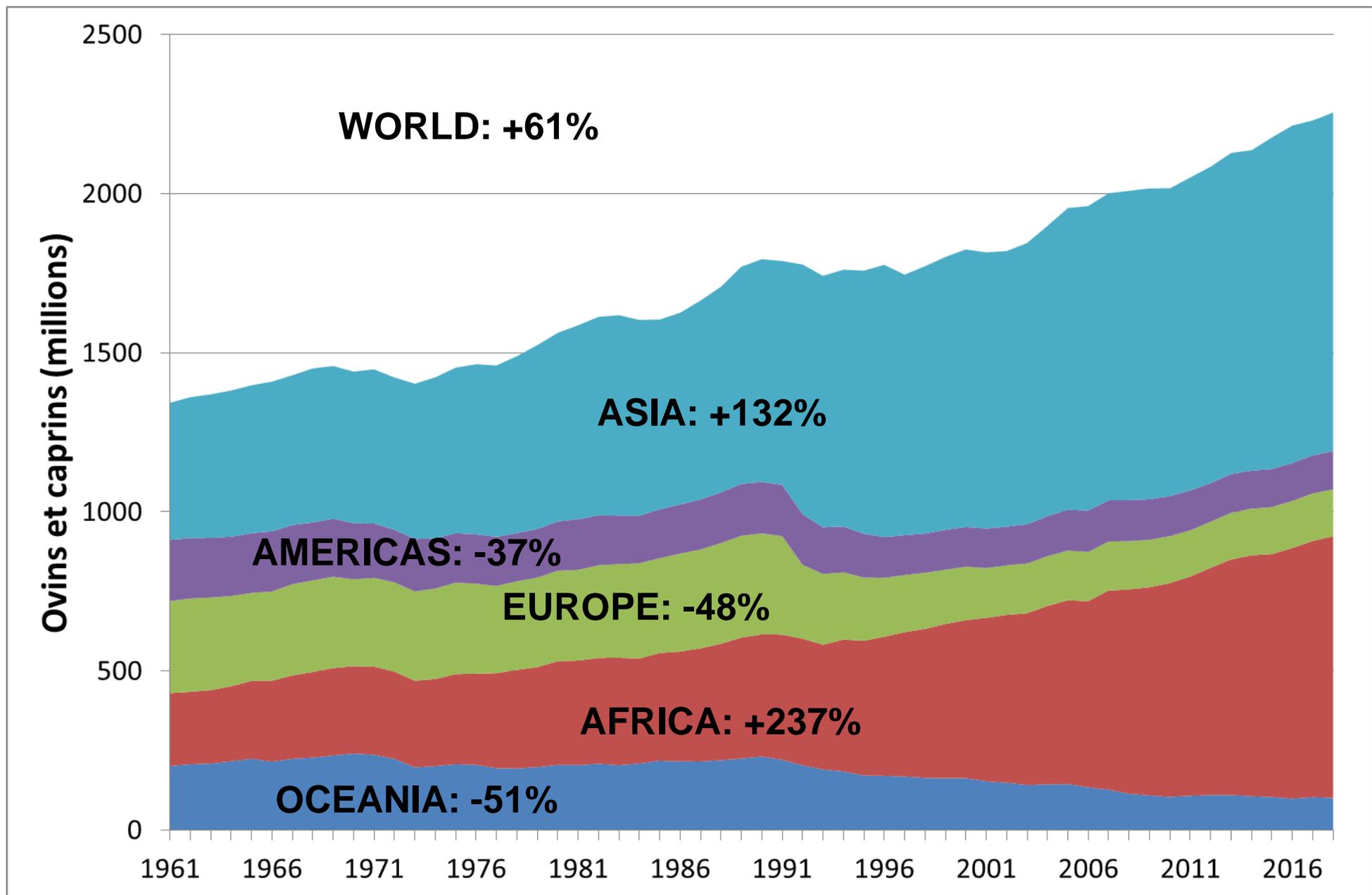
D'après  
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2020

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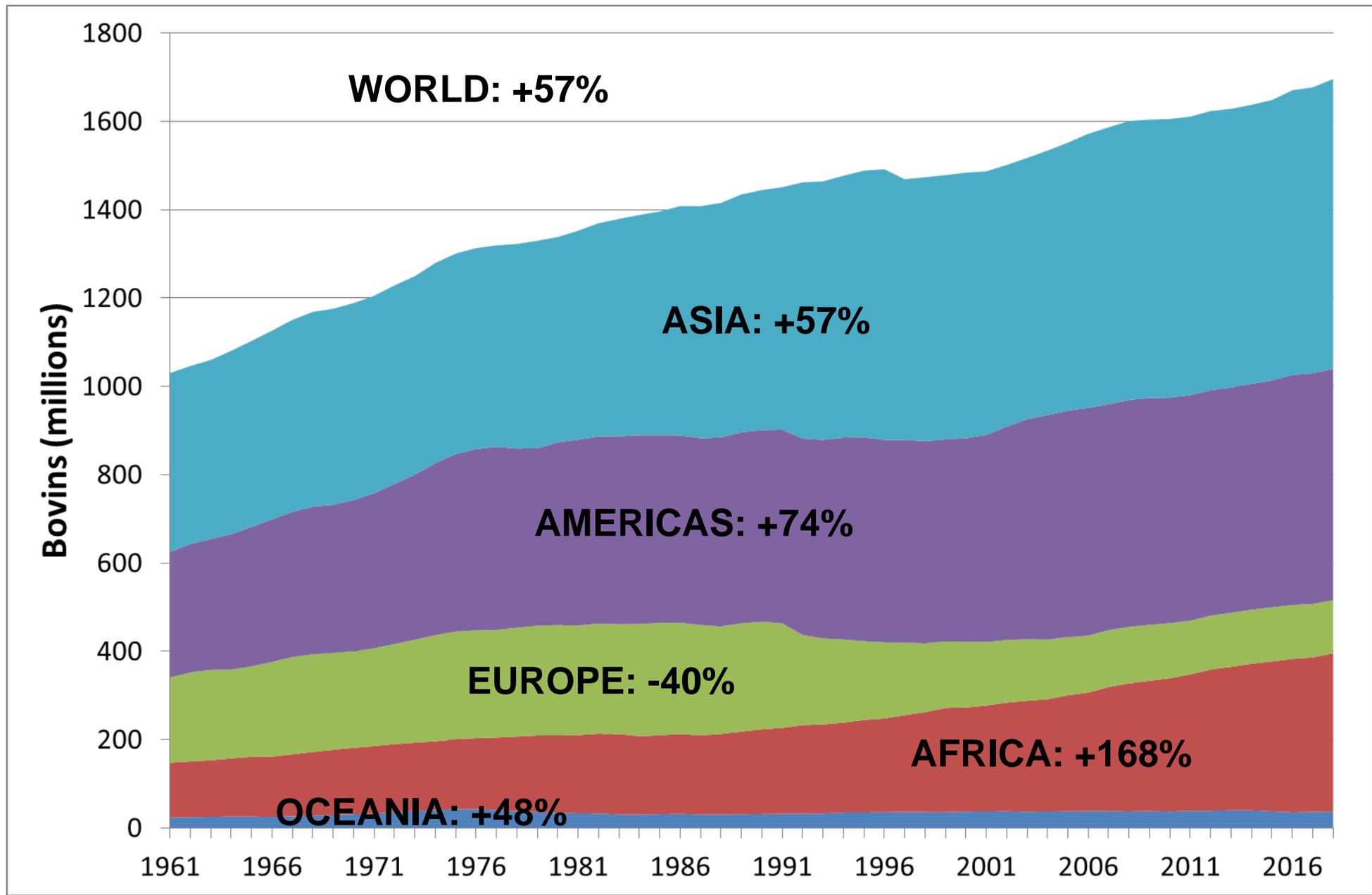
D'après  
FAOSTAT  
2020

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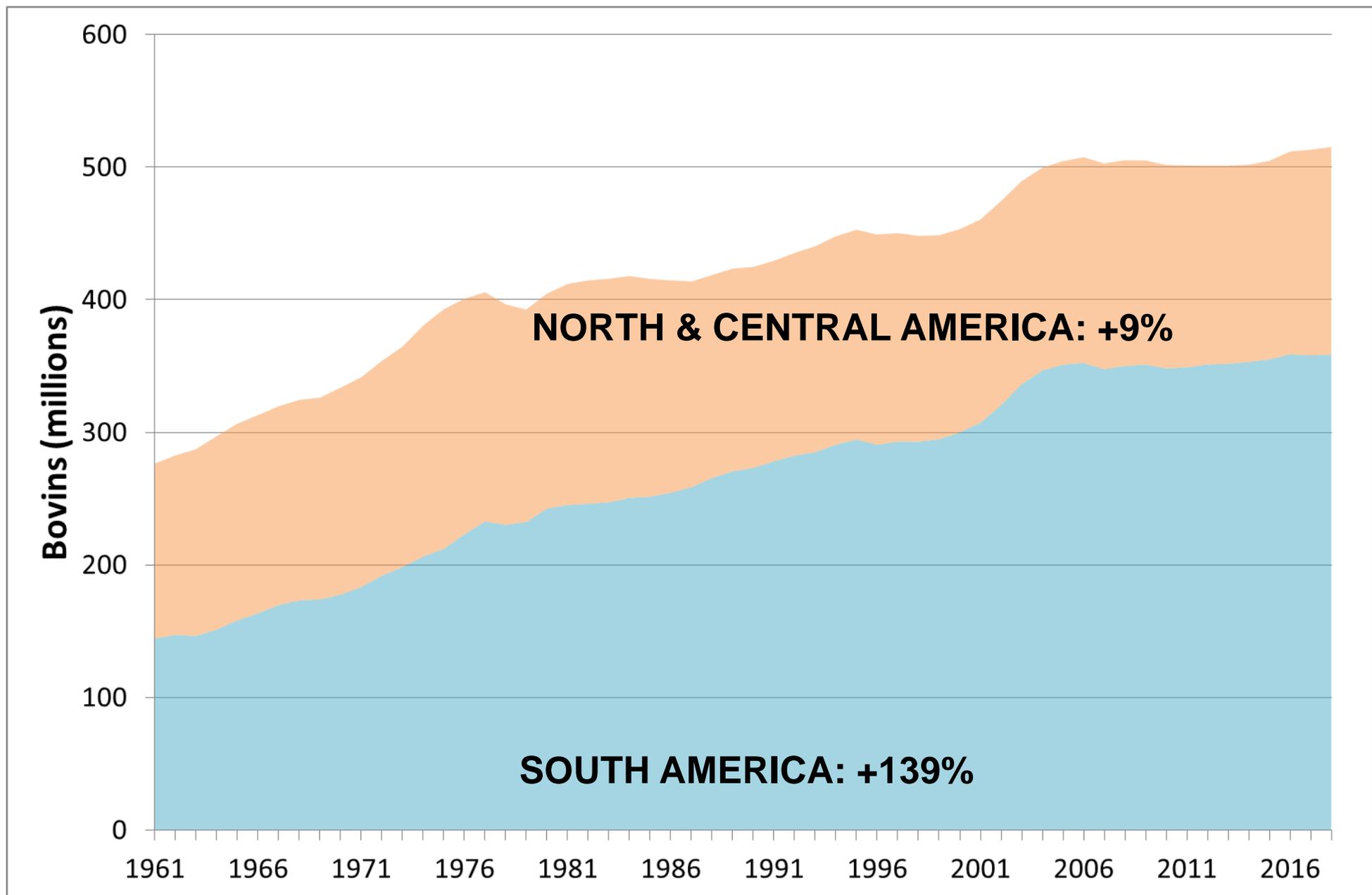
D'après  
FAOSTAT  
2020

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D'après  
FAOSTAT  
2020

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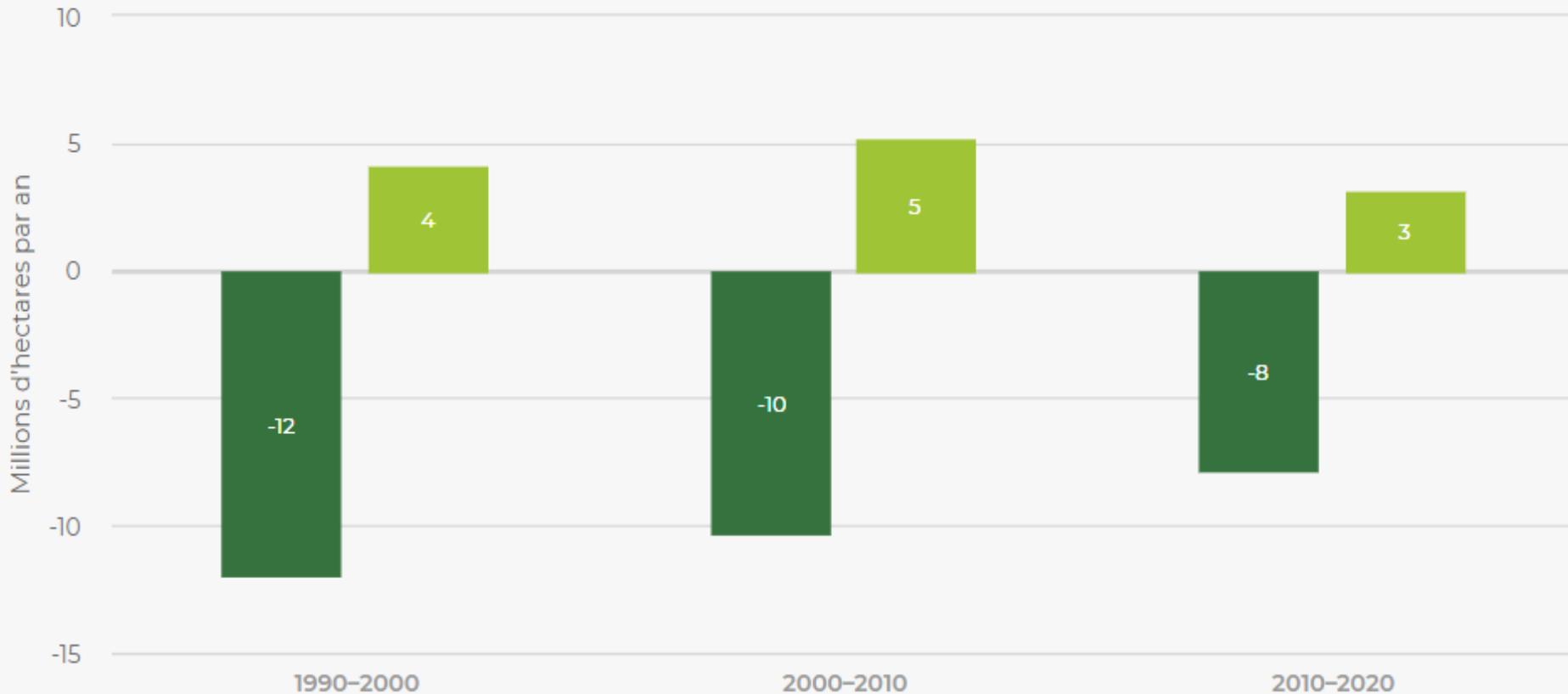
**NORTH & CENTRAL AMERICA: +9%**

**SOUTH AMERICA: +139%**

D'après  
FAOSTAT  
2020

# ... avec des impacts structurels sur les ressources ...

Changement net annuel de la superficie des forêts naturellement régénérées et des forêts plantées, par décennie, 1990–2020

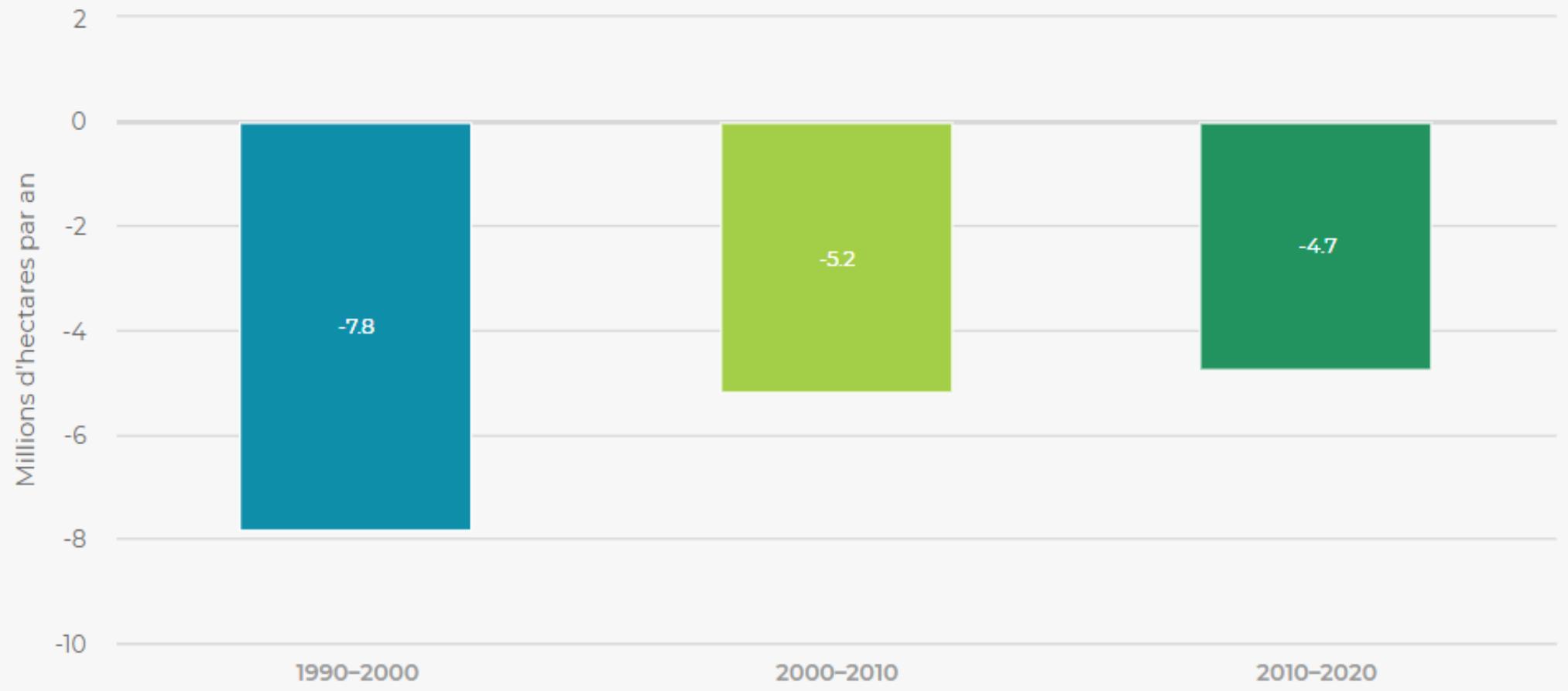


● Forêt naturellement régénérée ● Forêt plantée

SOURCE: FAO

# ... avec des impacts structurels sur les ressources ...

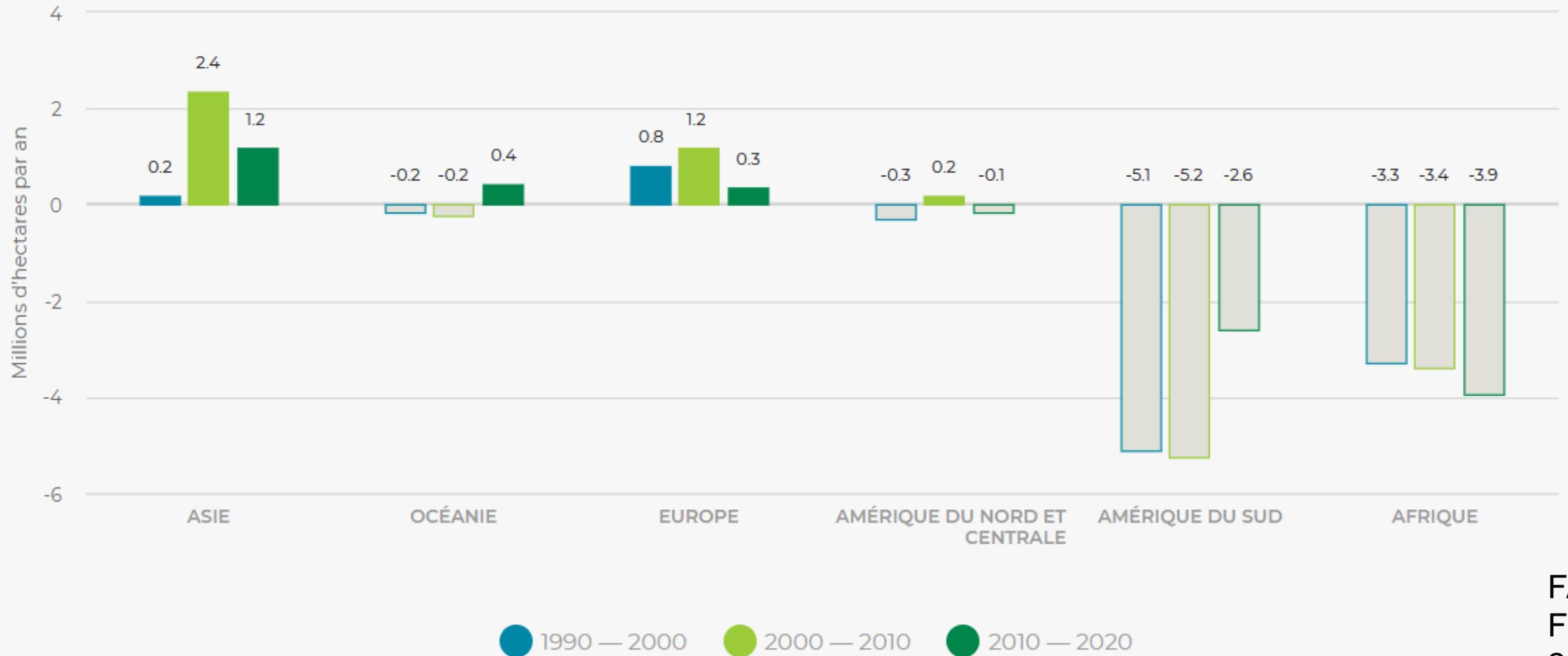
Changement net annuel de la superficie de la forêt, par décennie, 1990-2020



SOURCE: FAO

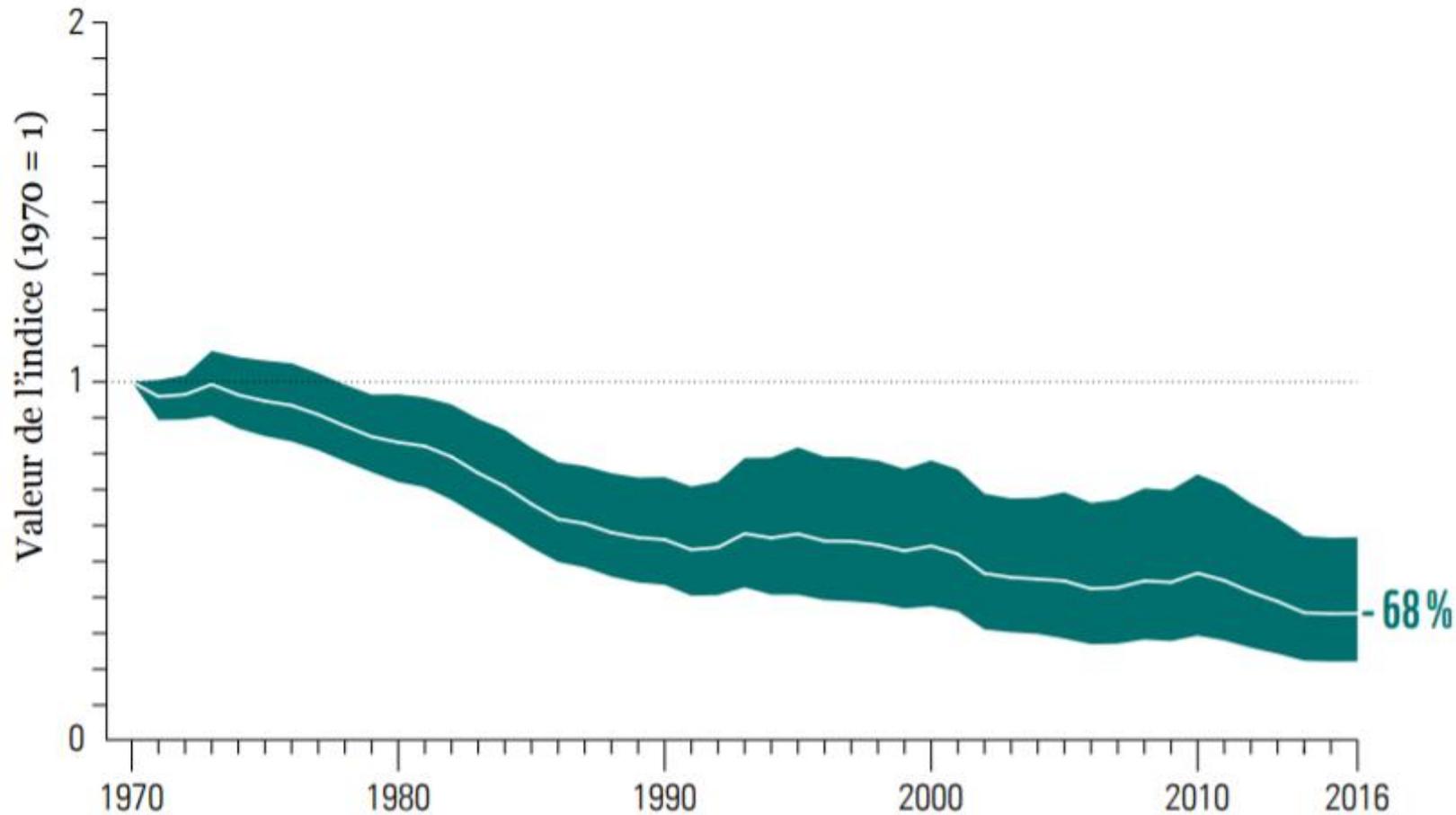
# ... avec des impacts structurels sur les ressources ...

Changement net annuel de la superficie forestière, par décennie et par région, 1990–2020



\*D'après la répartition régionale utilisée dans FRA 2020, l'Europe inclut la Fédération de Russie.

# ... avec des impacts structurels sur le vivant ...



## **Figure 1 : L'Indice Planète Vivante mondiale :**

*De 1970 à 2016. L'abondance moyenne de 20 811 populations représentant 4 392 espèces suivies dans le monde a diminué de 68 %. La ligne blanche indique les valeurs de l'indice, et les zones colorées l'intervalle de confiance entourant la tendance (écart : de -73 % à -62 %).*

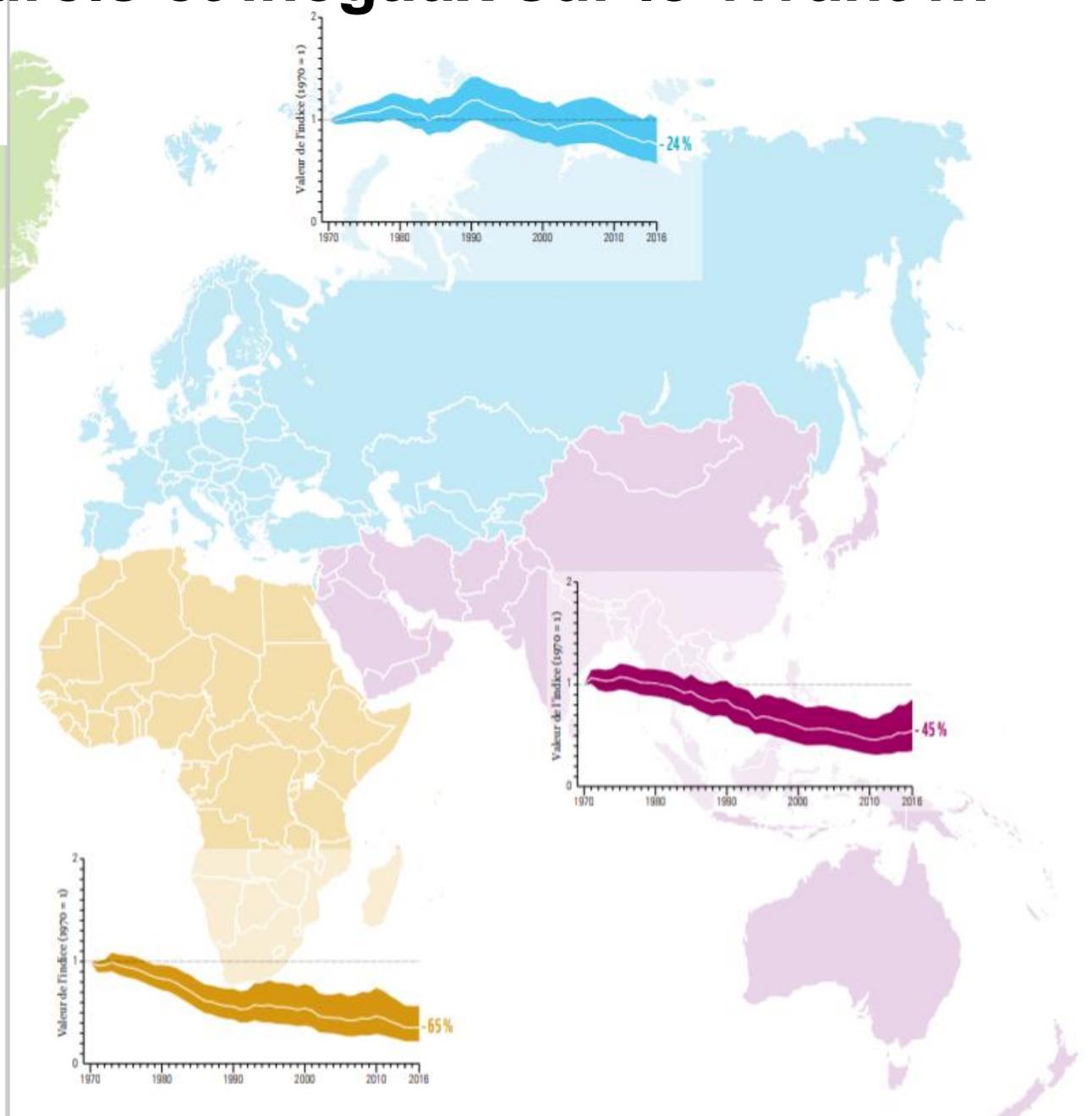
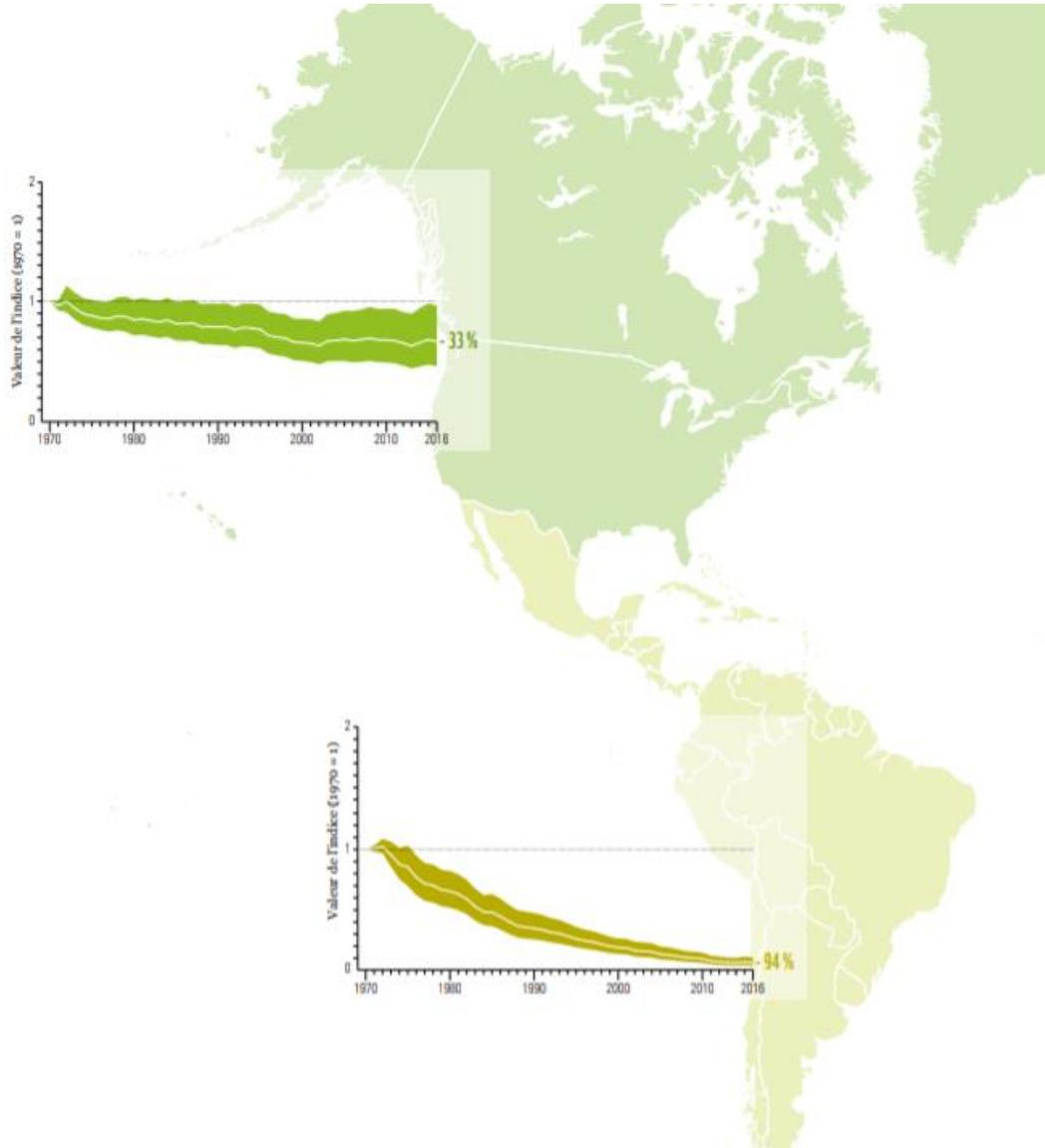
*Extrait de WWF/ZSL (2020)<sup>1</sup>.*

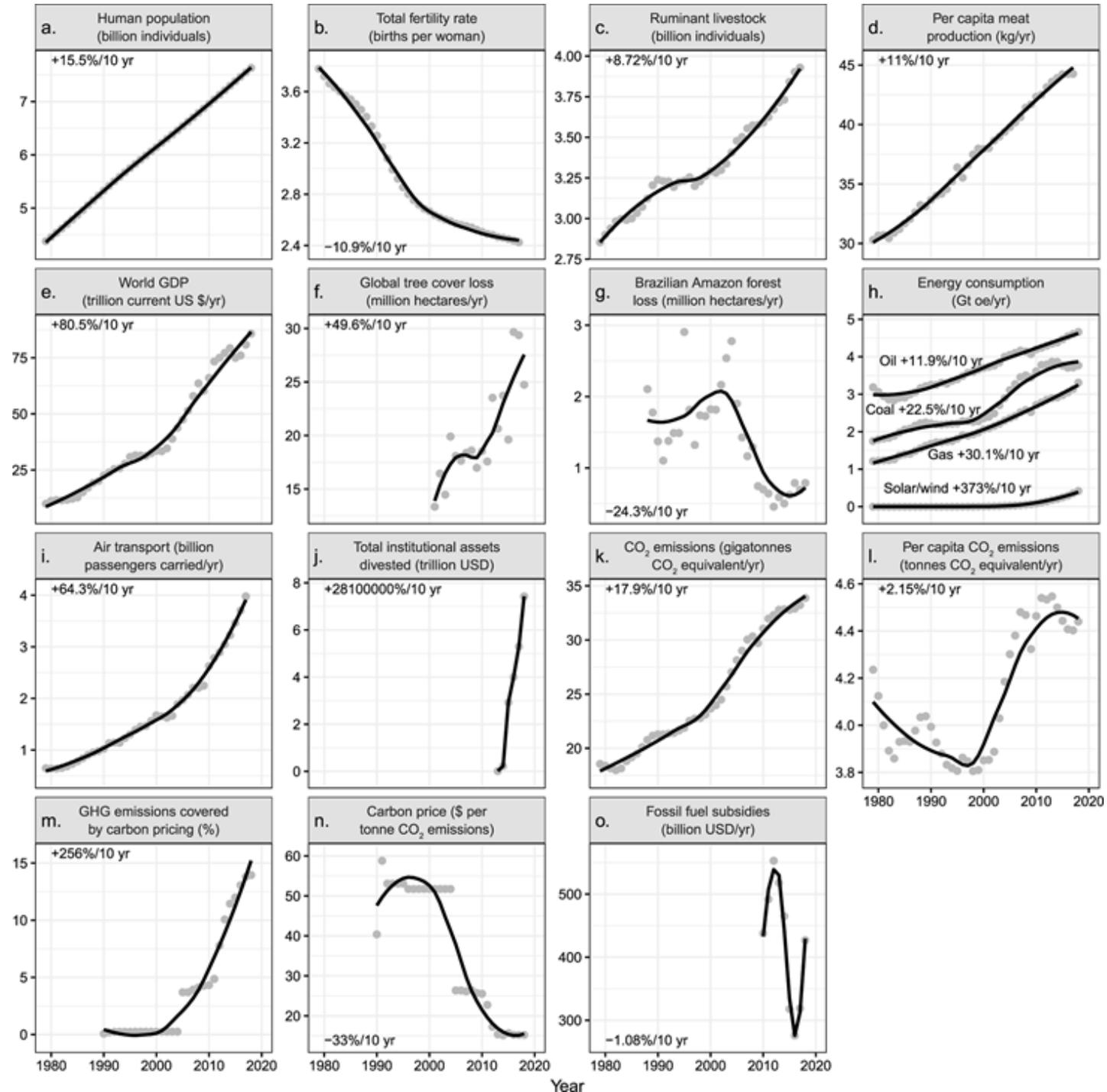
### *Légende*

-  Indice Planète Vivante global
-  Intervalle de confiance

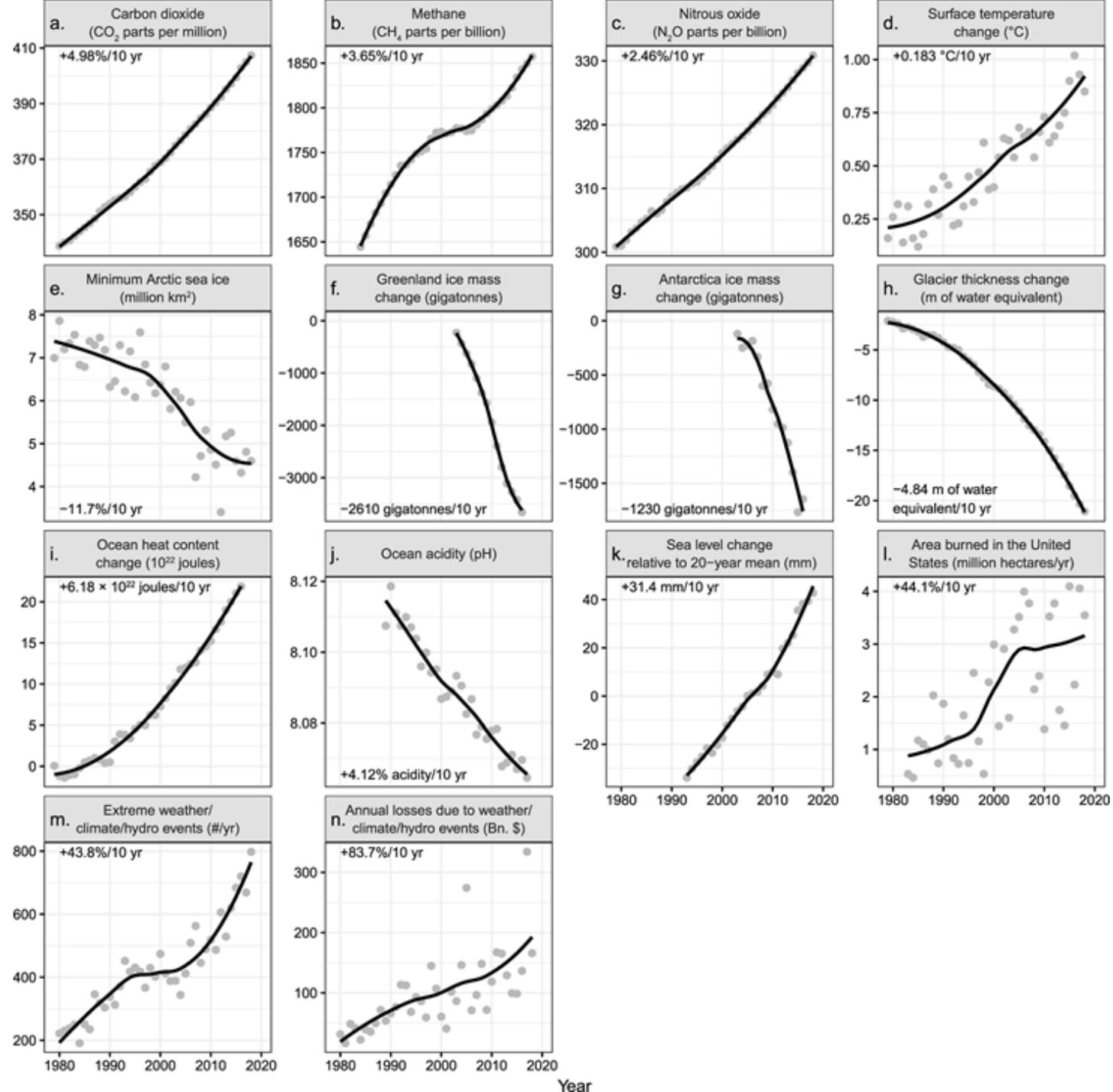
# ... avec des impacts structurels et inégaux sur le vivant ...

WWF (2020): Living Planet Report - 2020: Bending the curve of biodiversity loss

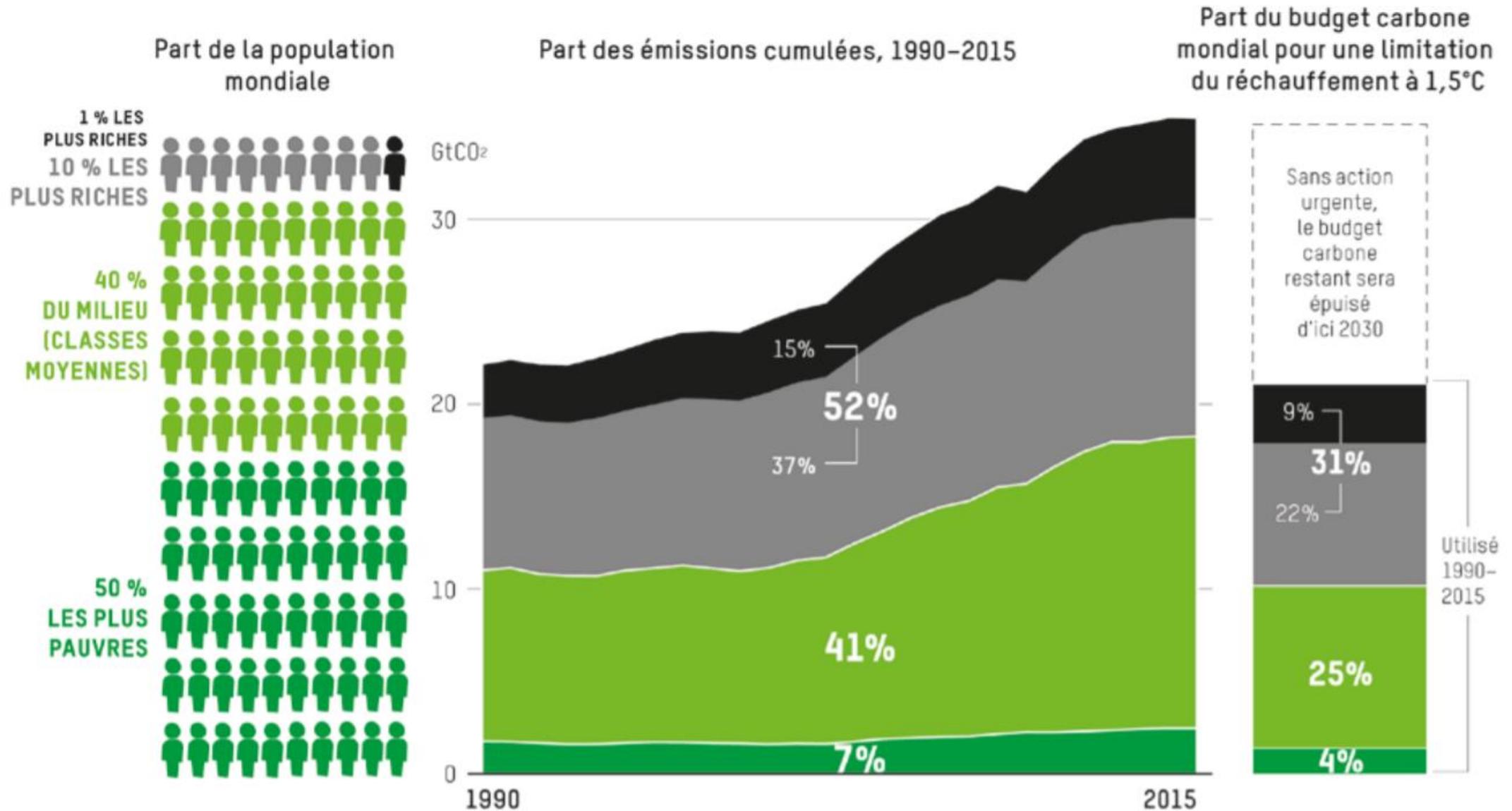




Ripple *et al.* (2020). *BioScience*, 70: 8-12.



# ... et, au final, de gigantesques disparités ...



Seuil de revenu par habitant-e en 2015 (PPA 2011) des 1 % les plus riches : 109 000 dollars ; 10 % les plus riches : 38 000 dollars ; 40 % du milieu (classes moyennes) : 6 000 dollars ; et 50 % les plus pauvres : moins de 6 000 dollars. Le budget carbone mondial en 1990 avait 33 % de chances de dépasser les 1,5°C : 1 250 Gt

# ... et, au final, de gigantesques disparités ...

