

合理的な環境主義 エコモダニズム



キヤノングローバル戦略研究所研究主幹・
ブレークスルー研究所フェロー 杉山大志



CIGS The Canon Institute for Global Studies



大規模・集中・ハイテク

で豊かさと環境を両立

・都市 ・産業

・農業 ・エネルギー

「エコモダニズム」

人類は調和を乱して
破滅するのか？







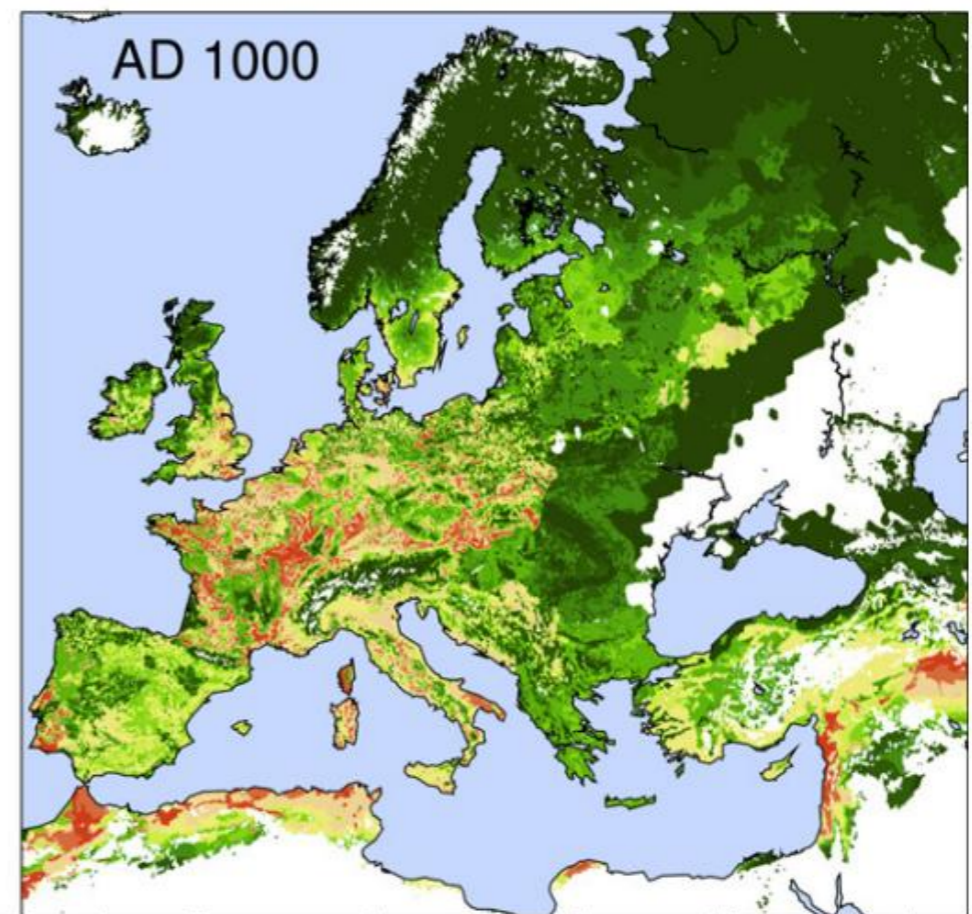
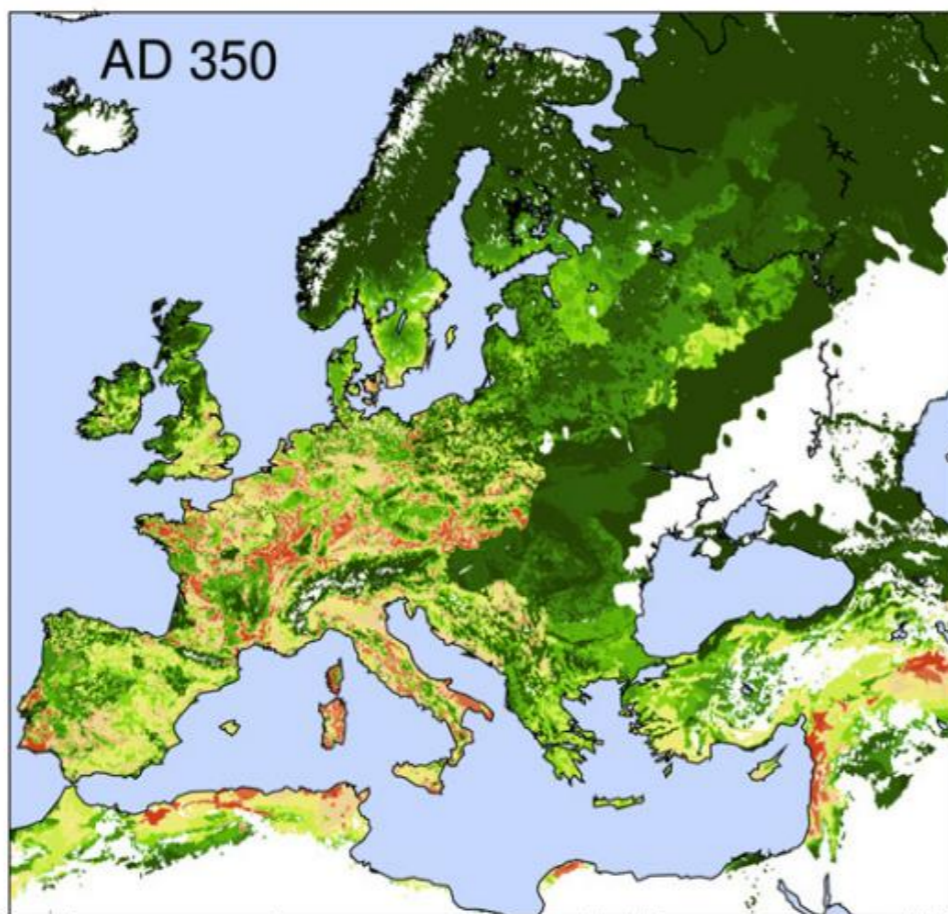
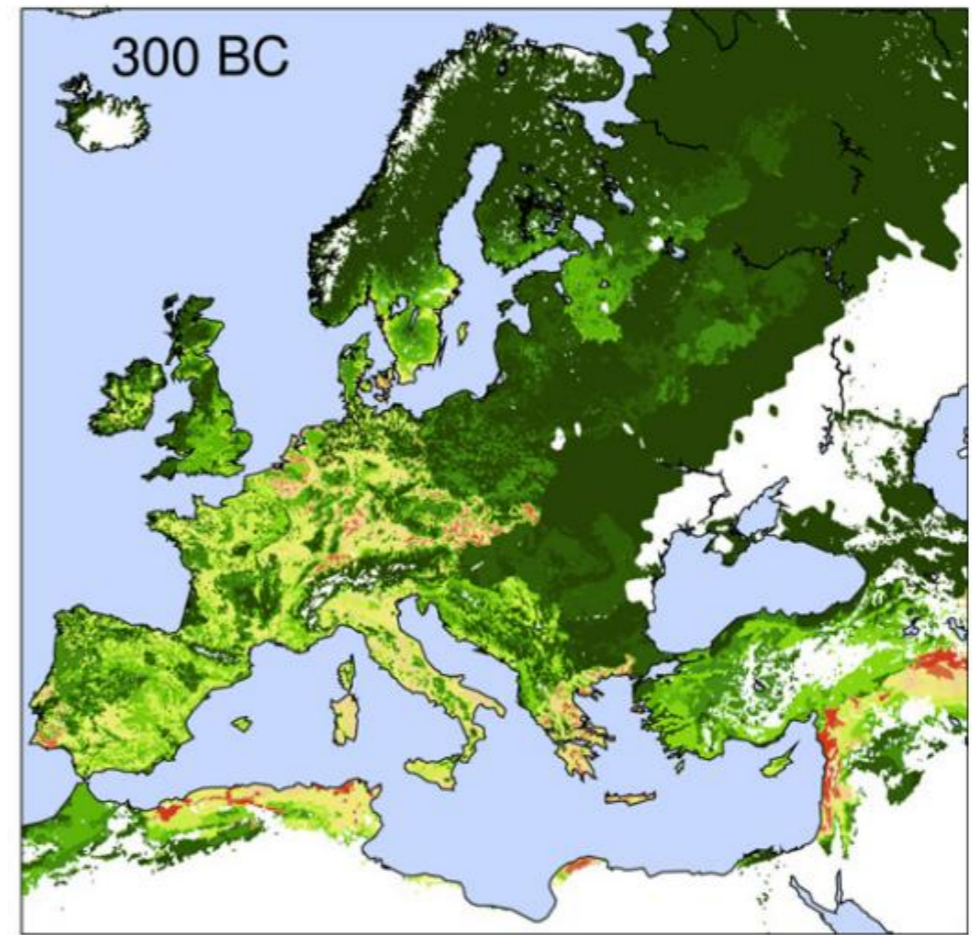
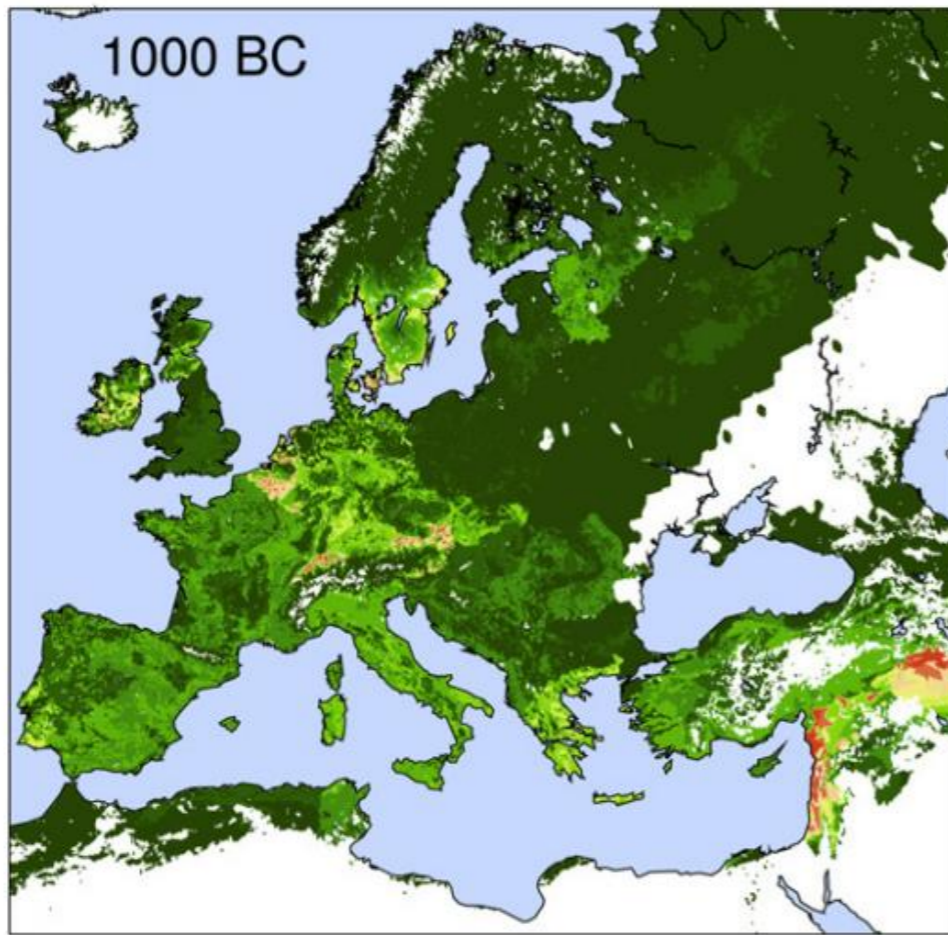


New Orleans, 2005



大規模な環境破壊は
産業革命前に起きた

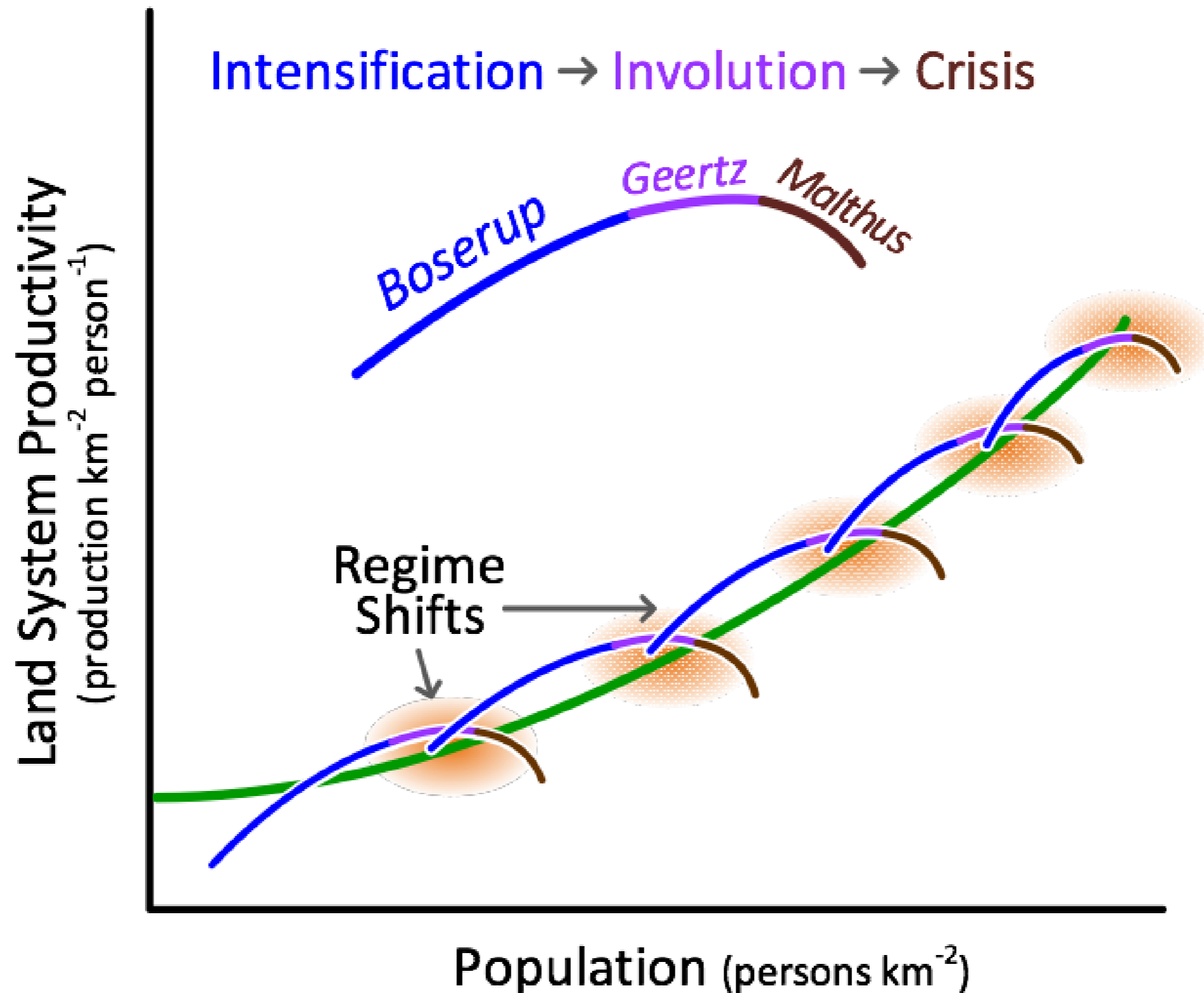




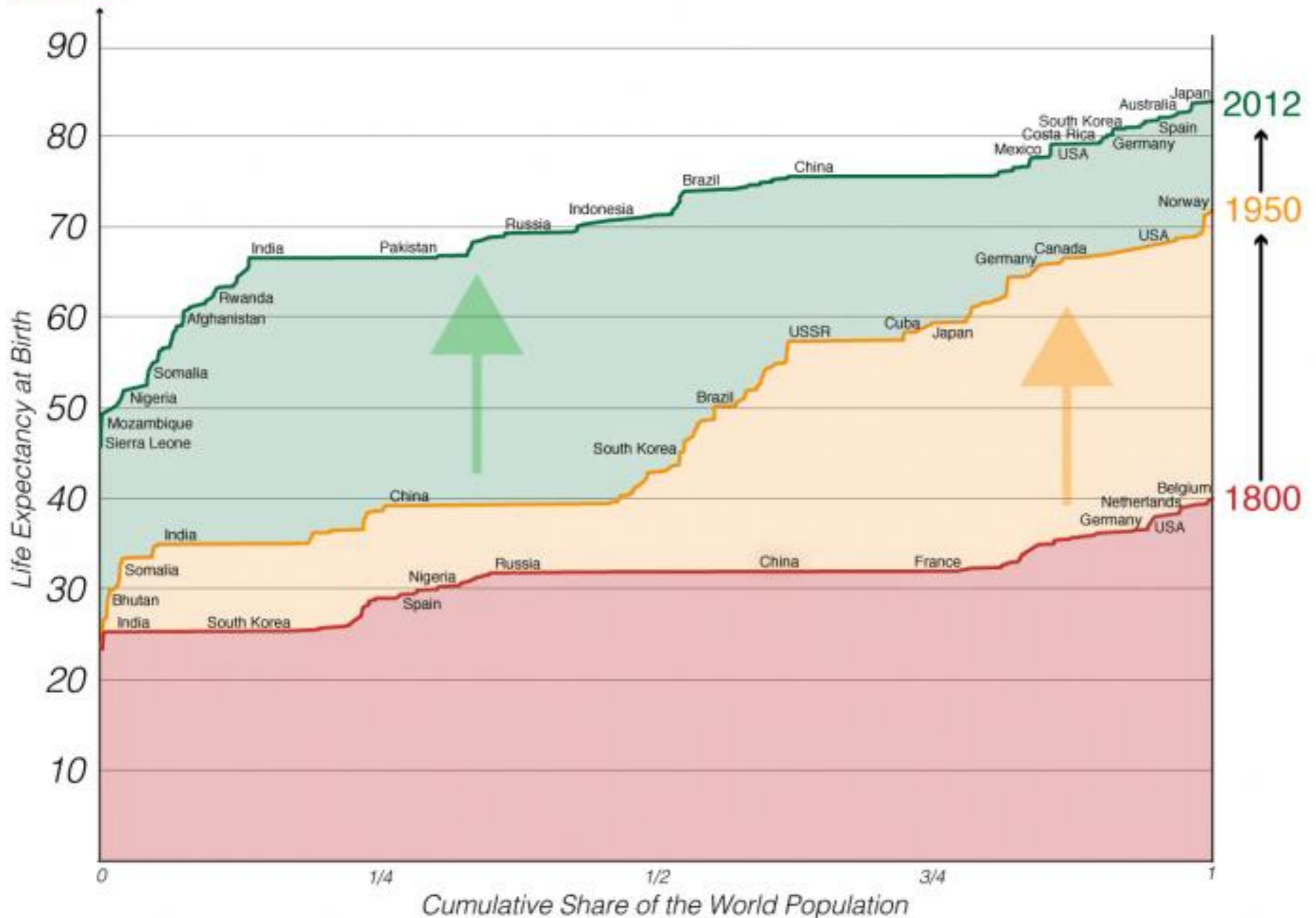


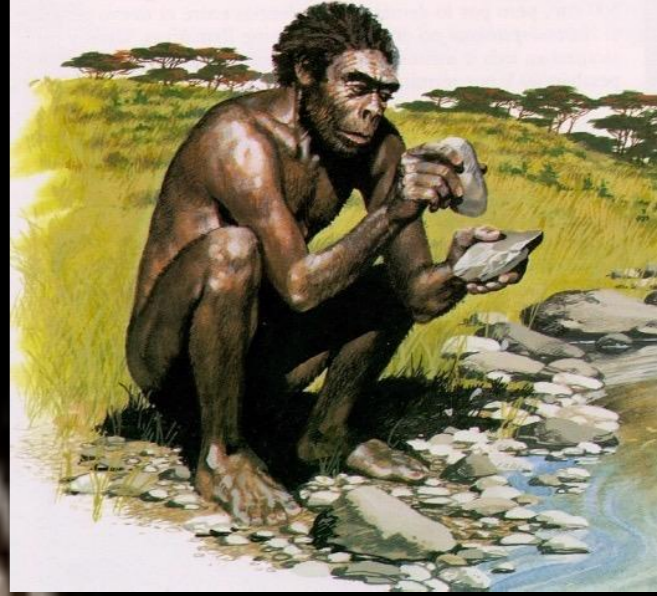
人類と技術は不可分

Land Use Intensification: A General Model

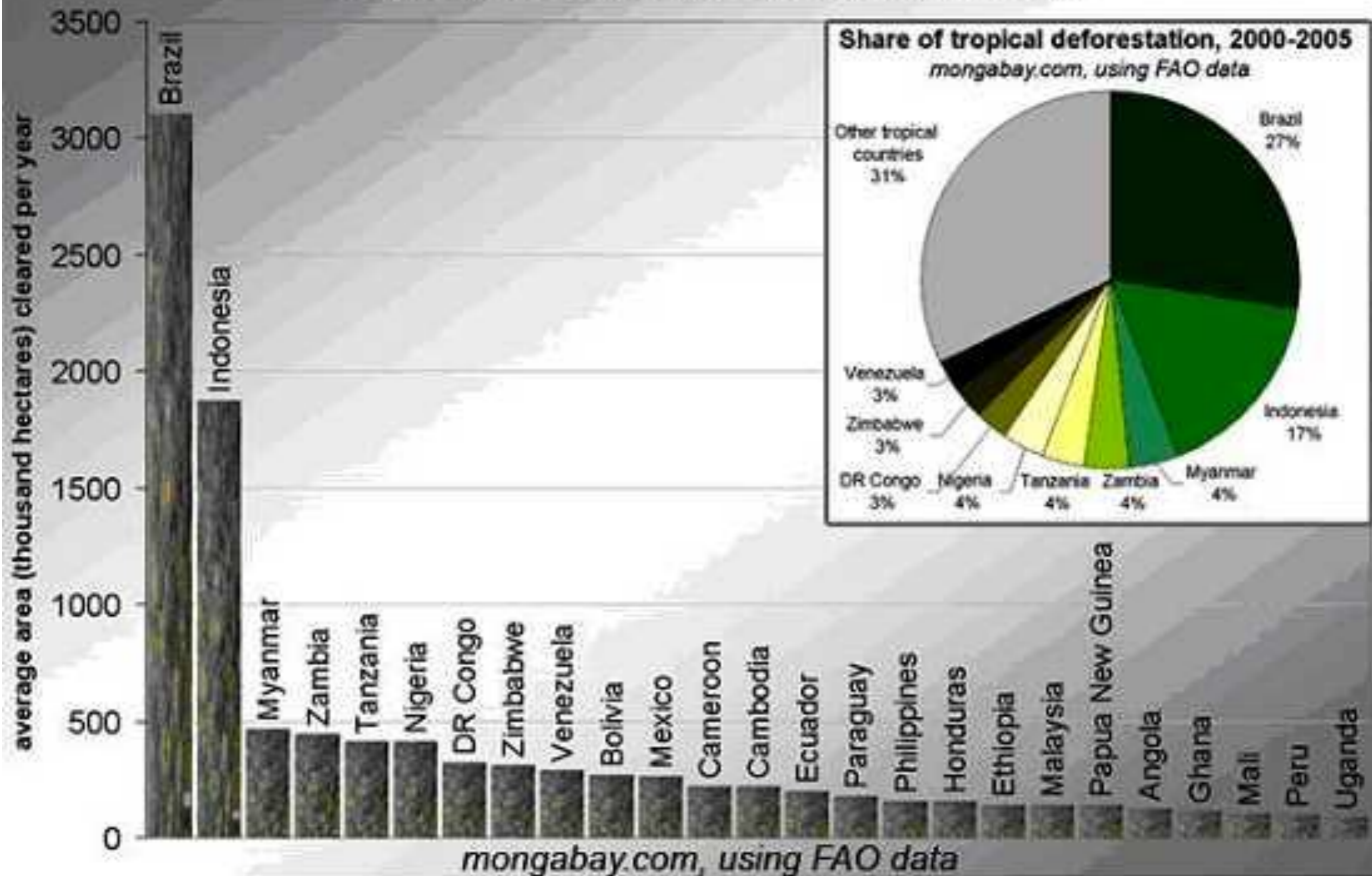


The Life Expectancy of the World Population in 1800, 1950 and 2012 – Max Roser





Tropical deforestation rates, 2000-2005



WILDLIFE POPULATION DECLINE BETWEEN 1970 AND 2010

CNN/INEZ TORRE



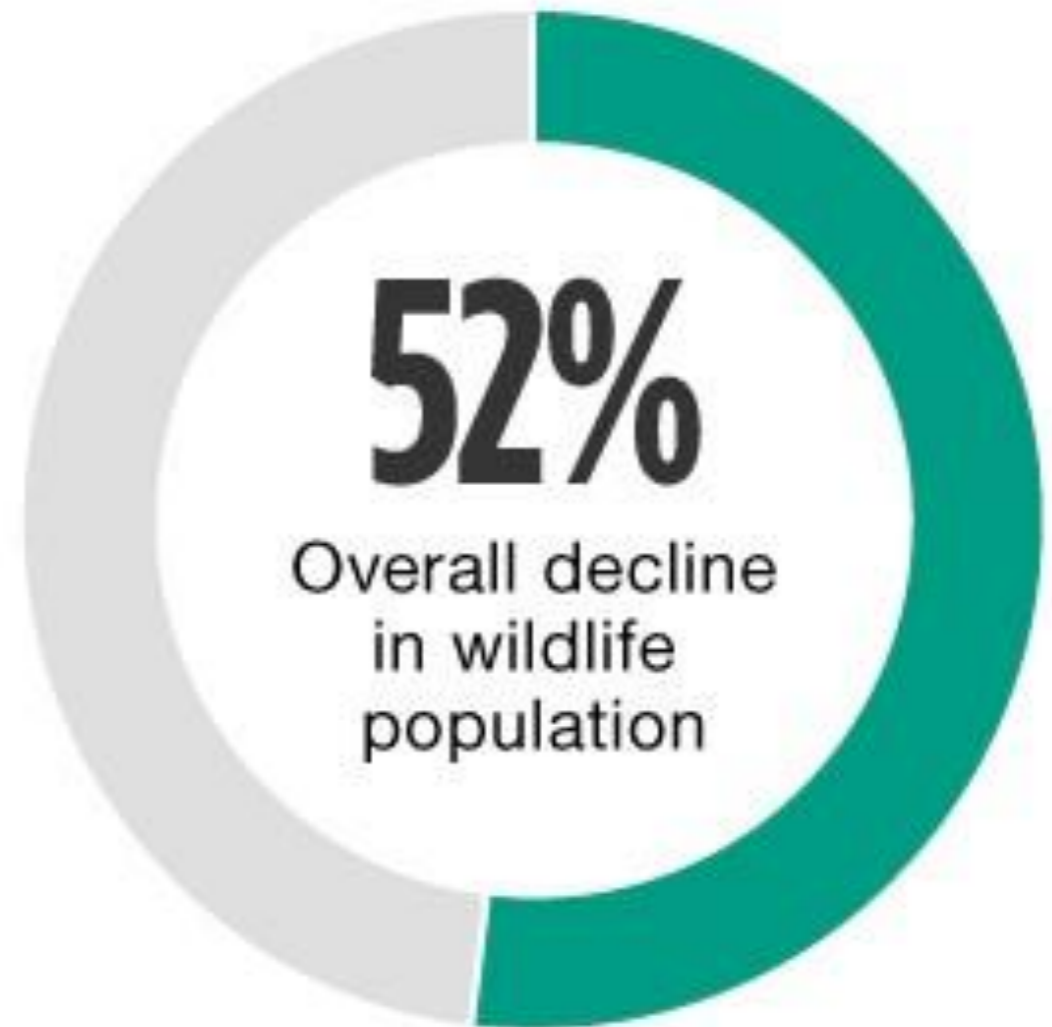
76%
Freshwater species



39%
Terrestrial species

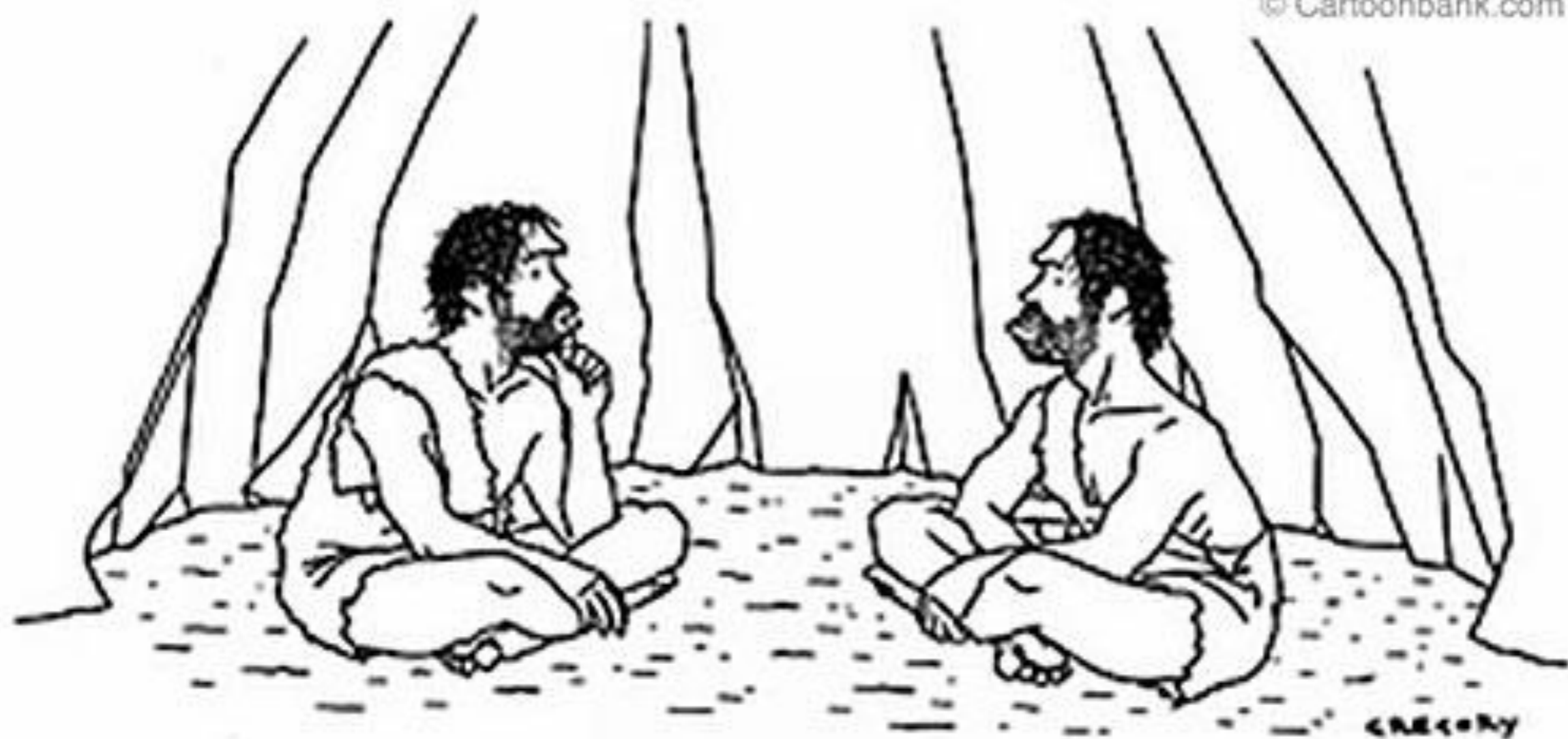


39%
Marine species



SOURCE: World Wide Fund for Nature (WWF)

技術で経済が発展する

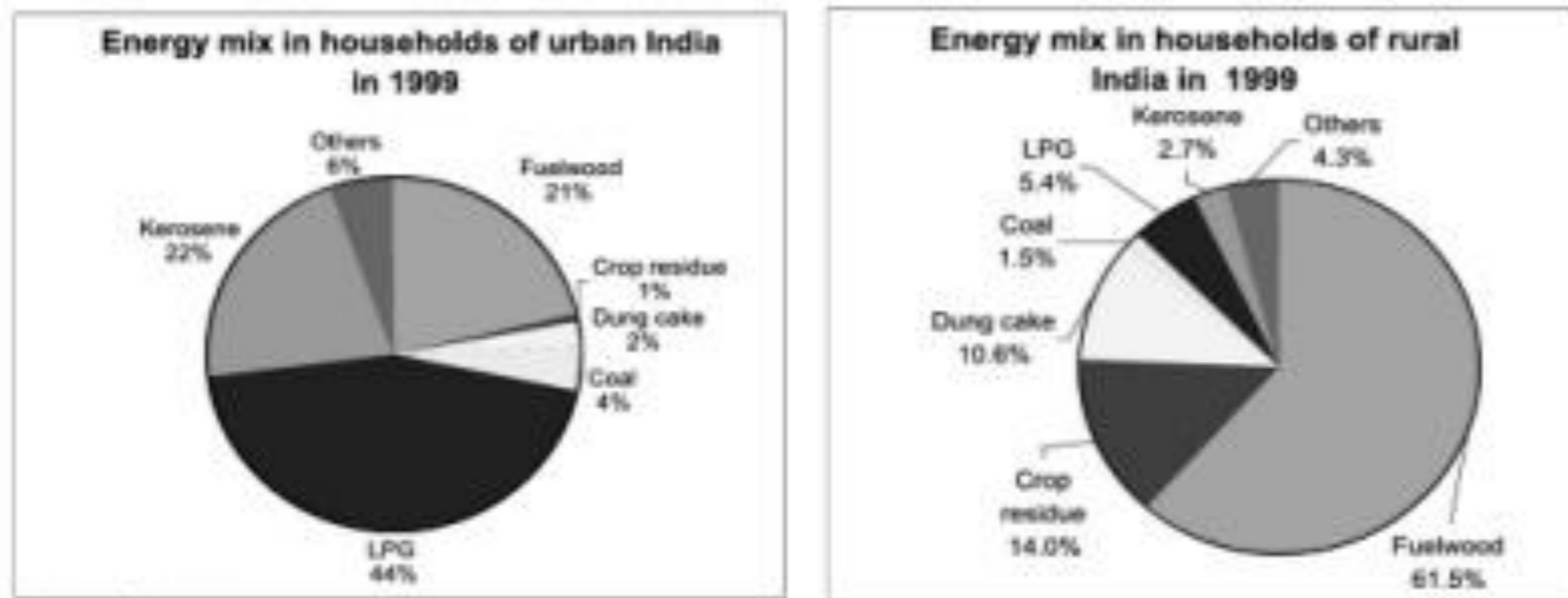


“Something’s just not right—our air is clean, our water is pure, we all get plenty of exercise, everything we eat is organic and free-range, and yet nobody lives past thirty.”



CIFOR in India

Figure 4.2 (a) Composition of energy consumption for cooking in urban India and 4.2 (b) in rural India (Source: NSSO 2001)



D. Pandey, 2002

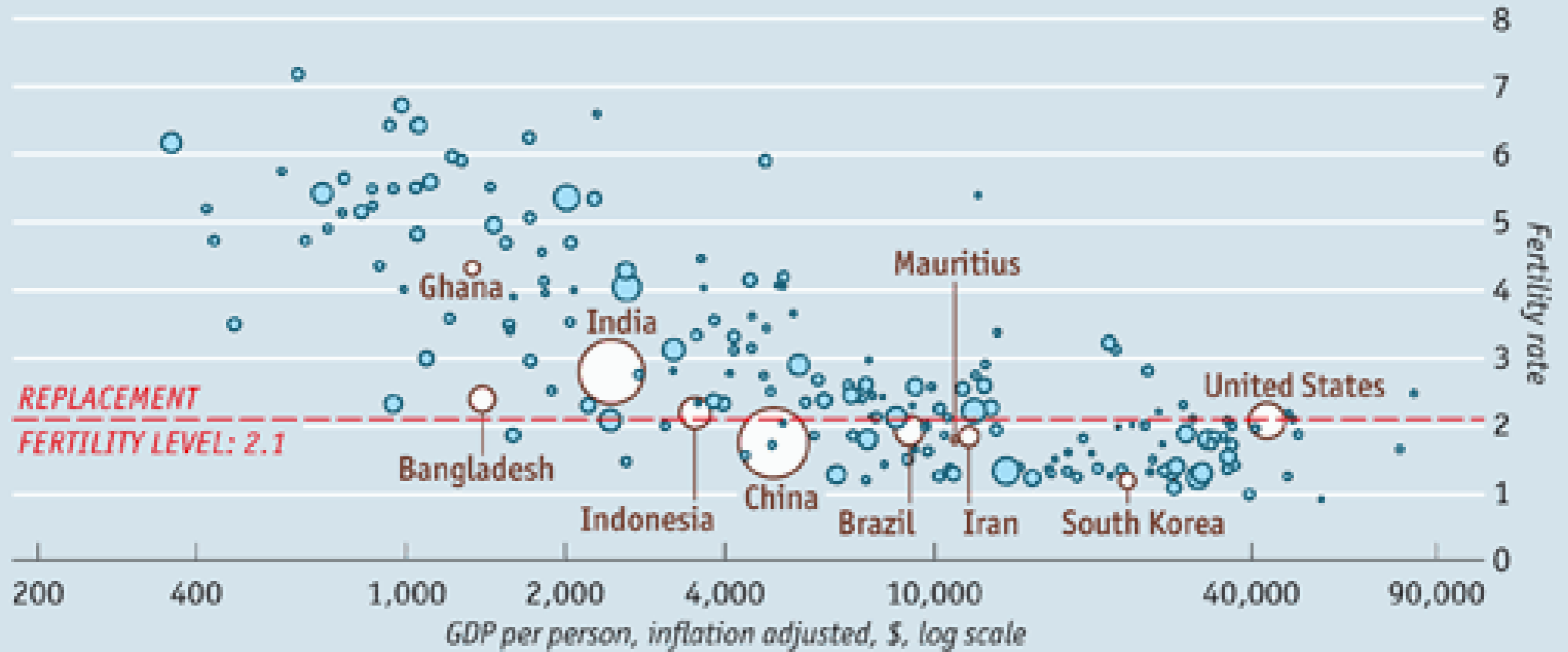
We have worked on questions of sustainable fuelwood provision



Less is more

Fertility vs GDP, 2007

● Size of circle is proportional to country's population



Source: gapminder.org



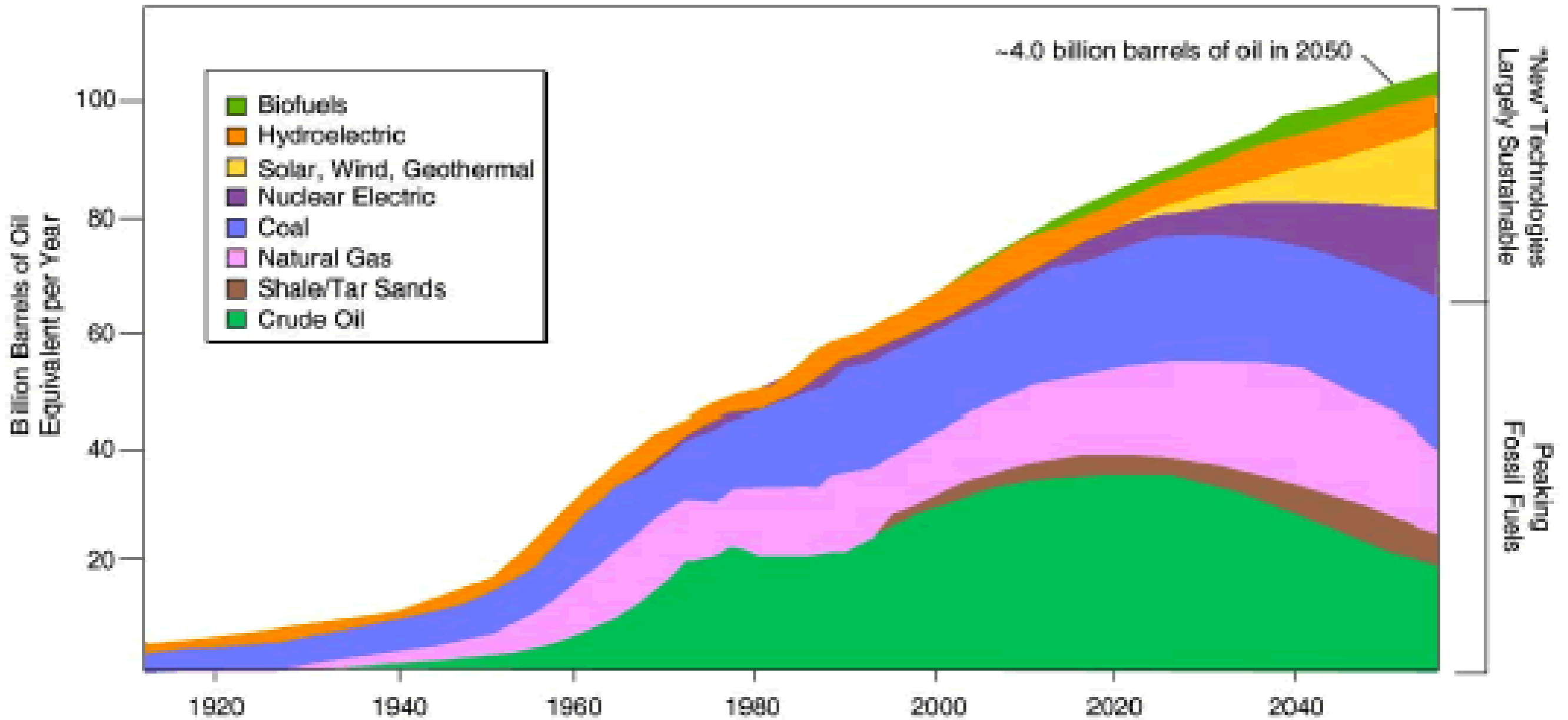






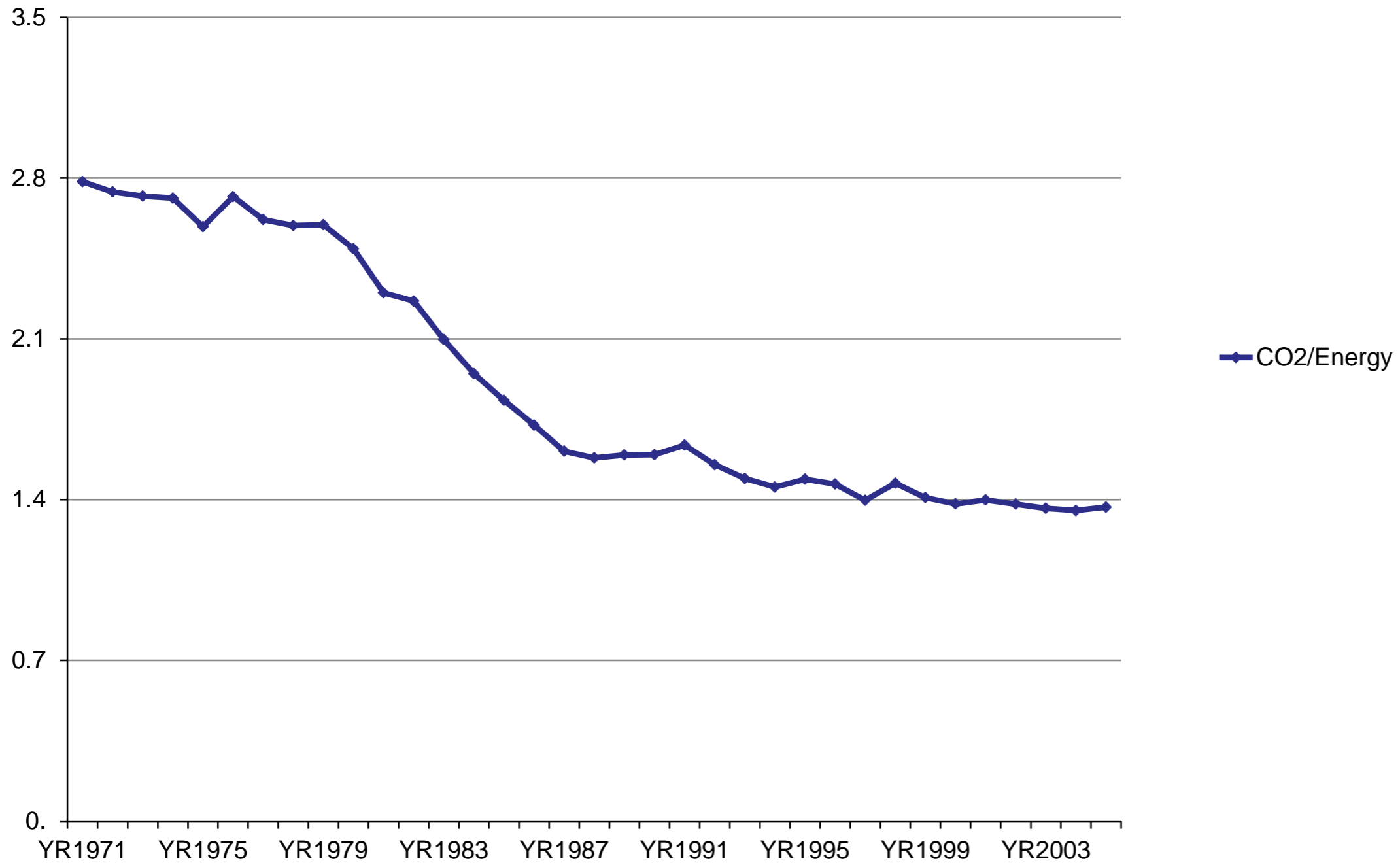
大規模集中エネルギー
が解決策だ

World Energy Demand—Long-Term Energy Sources

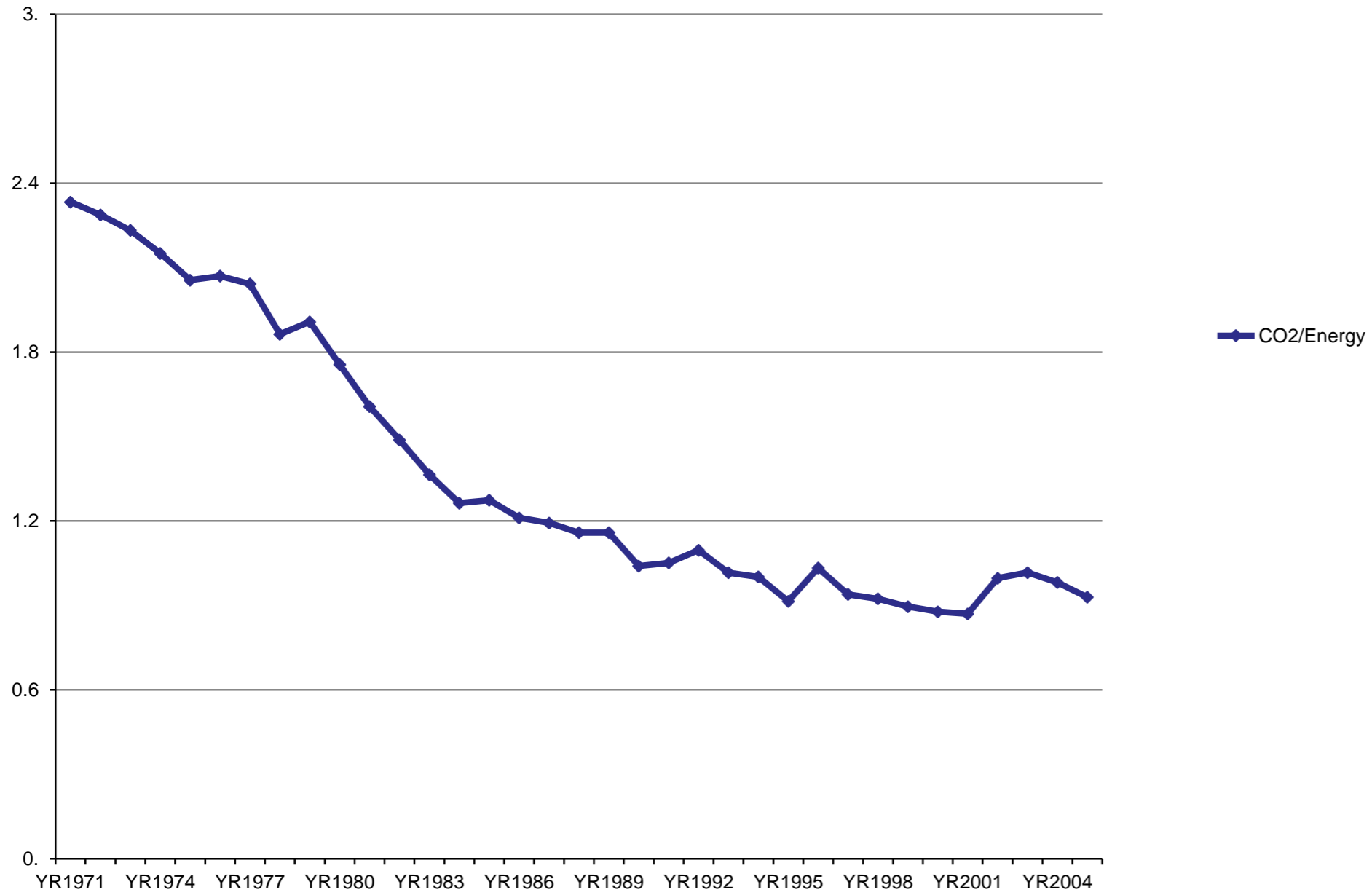


Sources: Lynn Orr, *Changing the World's Energy Systems*, Stanford University Global Climate & Energy Project (after John Edwards, American Association of Petroleum Geologists); SRI Consulting.

France CO2/E, 1971-2005



Sweden CO2/E, 1971-2005





Land used for
energy, 2010

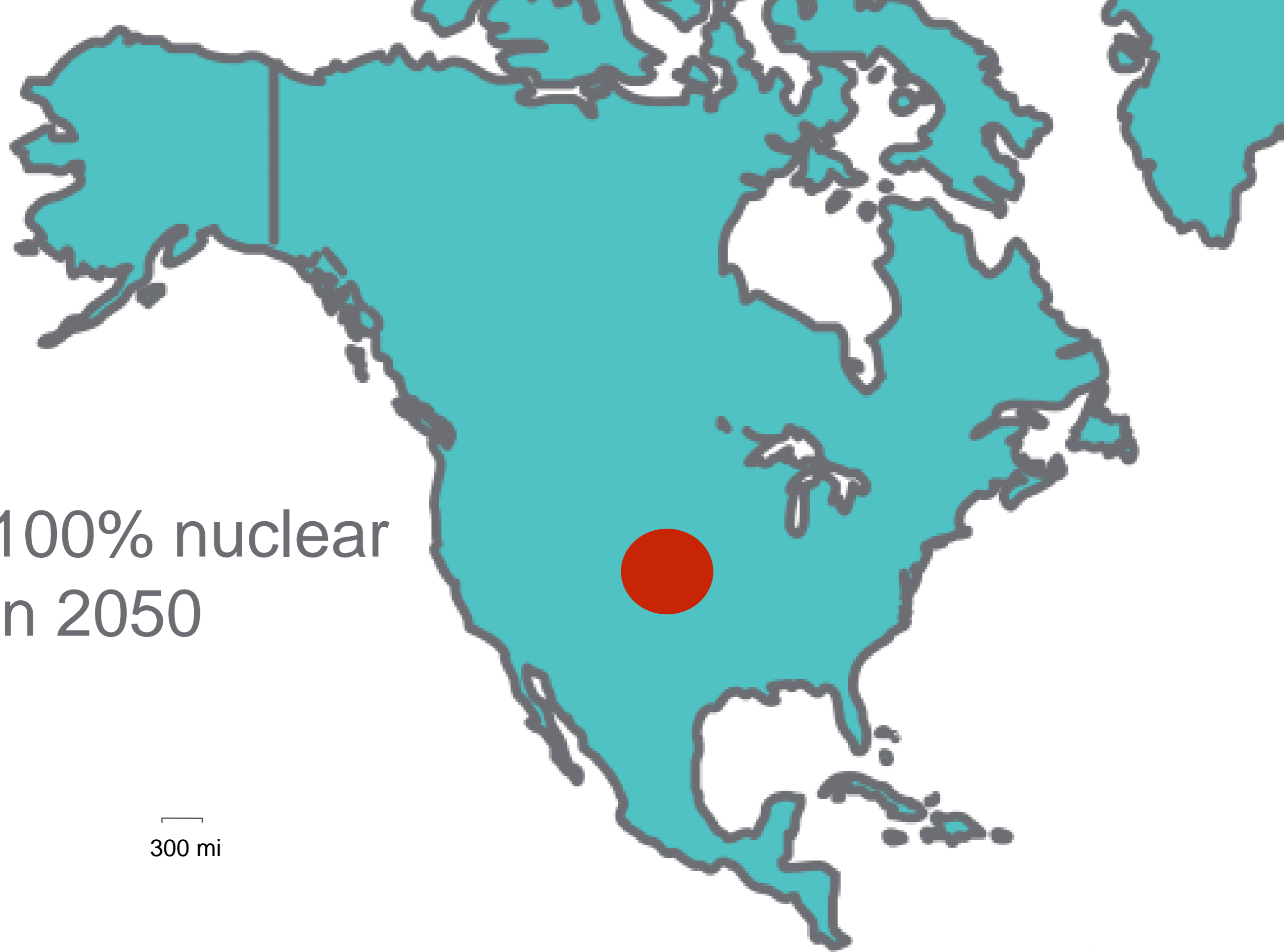
300 mi

Source: Breakthrough analysis based on Jacobson, M. Z. & Delucchi, M. A.
Providing all global energy with wind, water, and solar power. Energy Policy 39, 1154–1169 (2011).

100% nuclear
in 2050

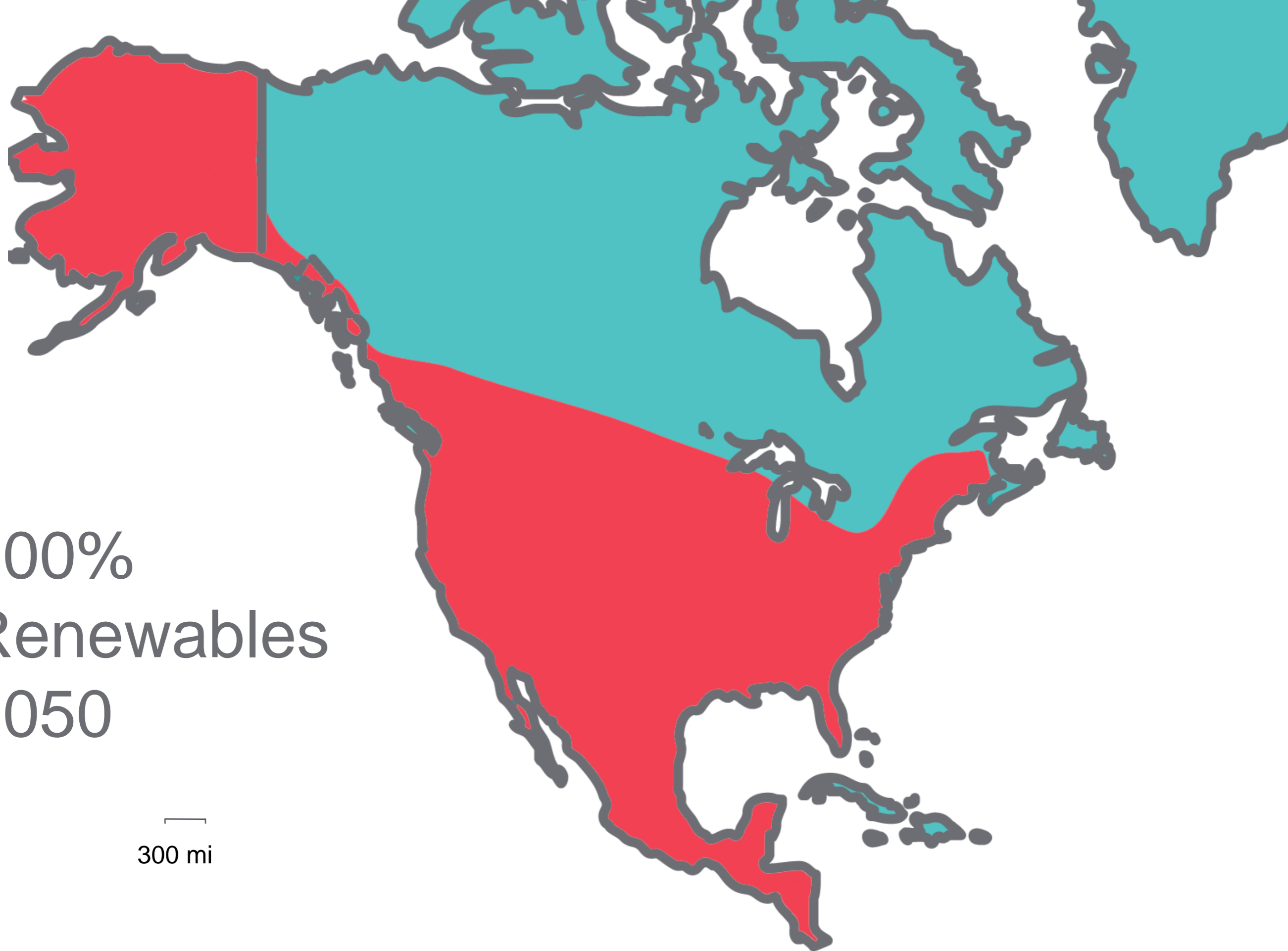
300 mi

Source: Breakthrough analysis based on American Nuclear Society data



100% Renewables 2050

300 mi



Source: Breakthrough analysis based on Jacobson, M. Z. & Delucchi, M. A.
Providing all global energy with wind, water, and solar power. Energy Policy 39, 1154–1169 (2011).

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