

Sustainable Forest Management for the mitigation of Climate Change

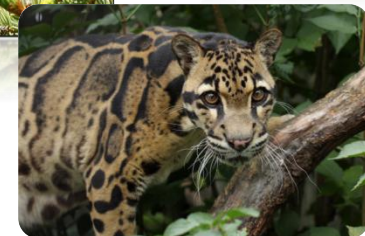
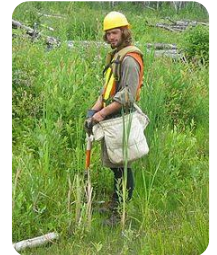
Antonio Brunori

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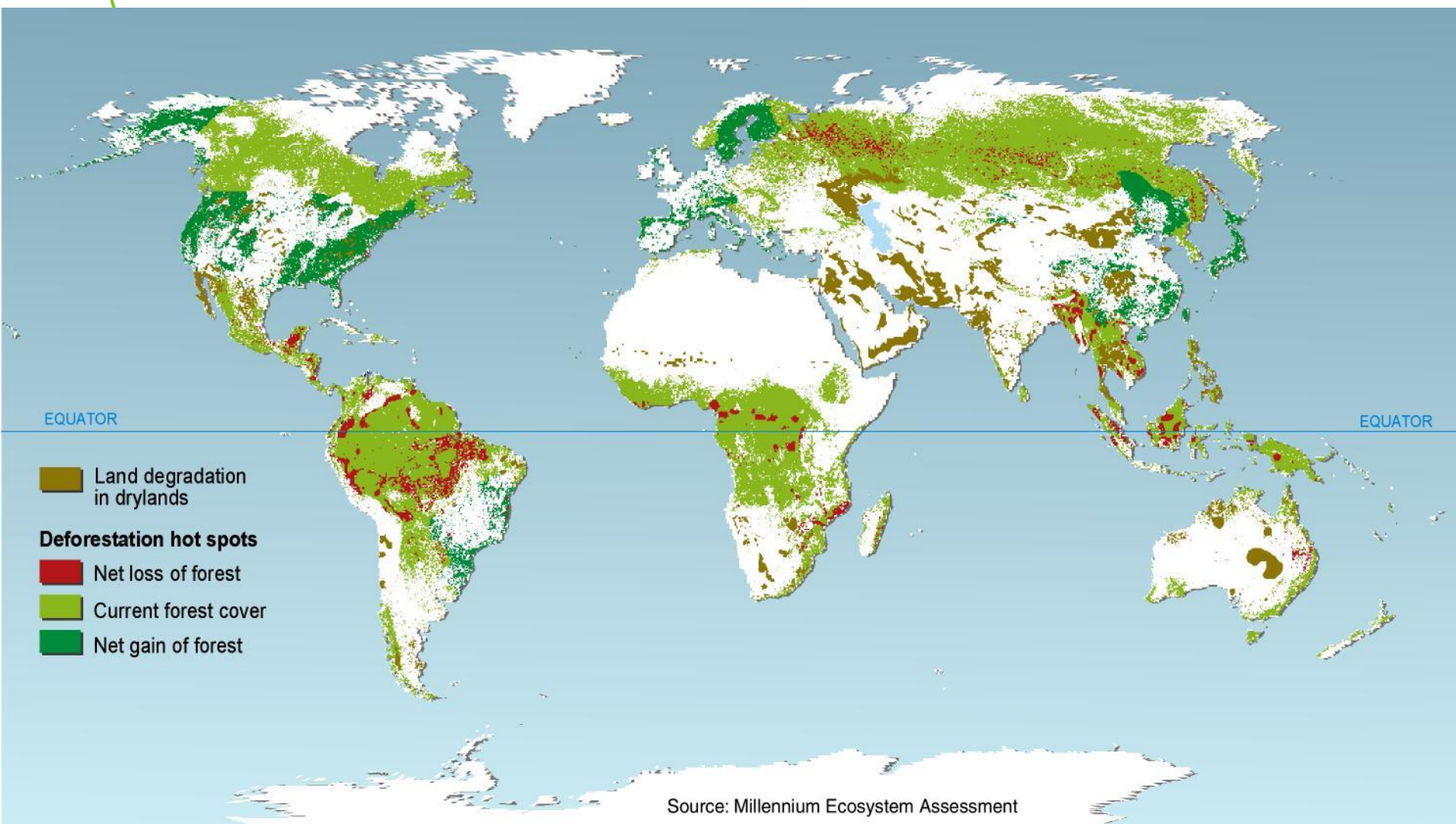


Forests Matter for all of us

- **Climate change:** Forests are the lungs of the earth.
 - Forests and wood products store carbon removing CO₂ from the atmosphere
- **People:** 1.6 billion people (1 in 5 persons) rely on forest resources for their livelihoods
- **Biodiversity:** Forests are home to 2 out of 3 living species
 - Sustainable forest management makes a difference
 - Certification is a critical enabler



Forests in the World (MEA 2005; FAO 2012)



Now: 4 Gha 10,000 anni ago: 6 Gha

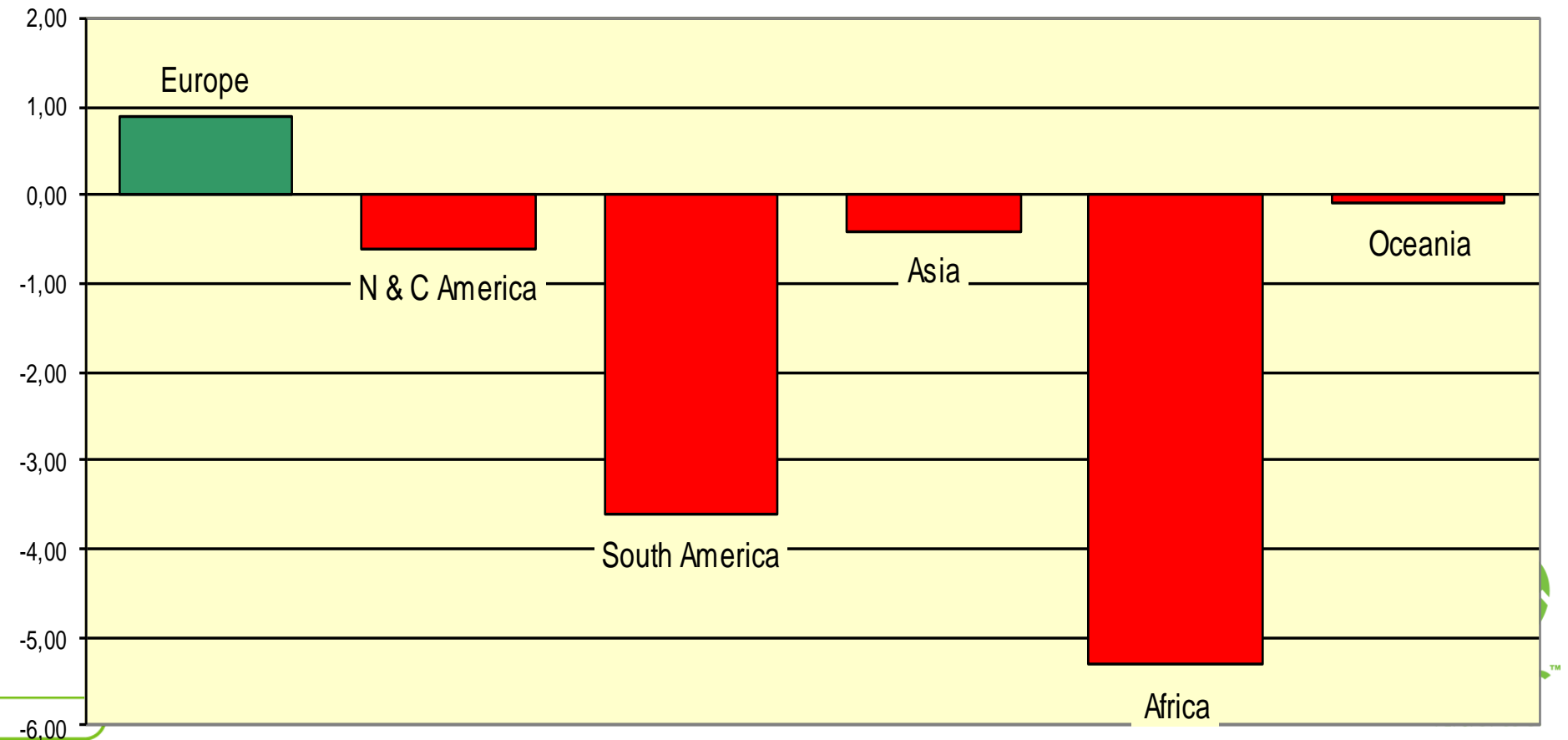




Change in forest surface

(Annual reduction 13 M ha: 2009-2018)
Data: FAO march 2019

Hectares
(Millions)
per year



How Deforestation Drives The Emergence Of Novel Coronaviruses



Jeff McMahon Senior Contributor ①

Green Tech

From Chicago, I write about climate change, green technology, energy.

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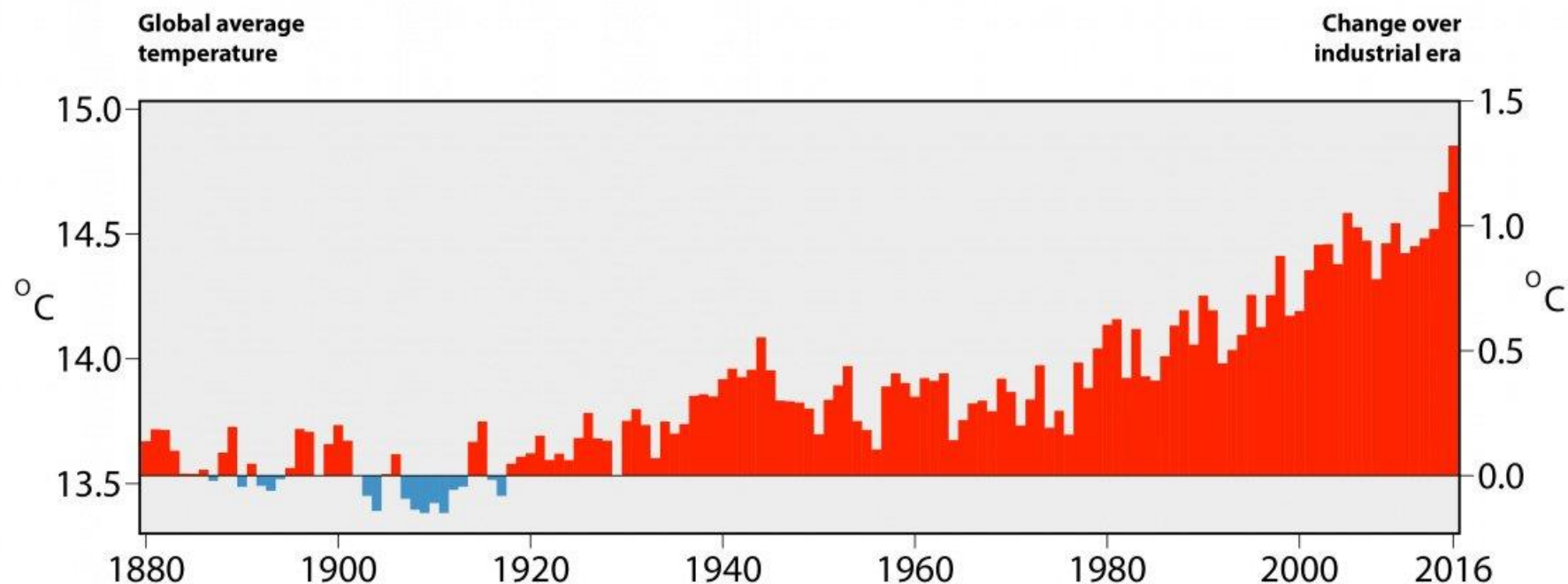
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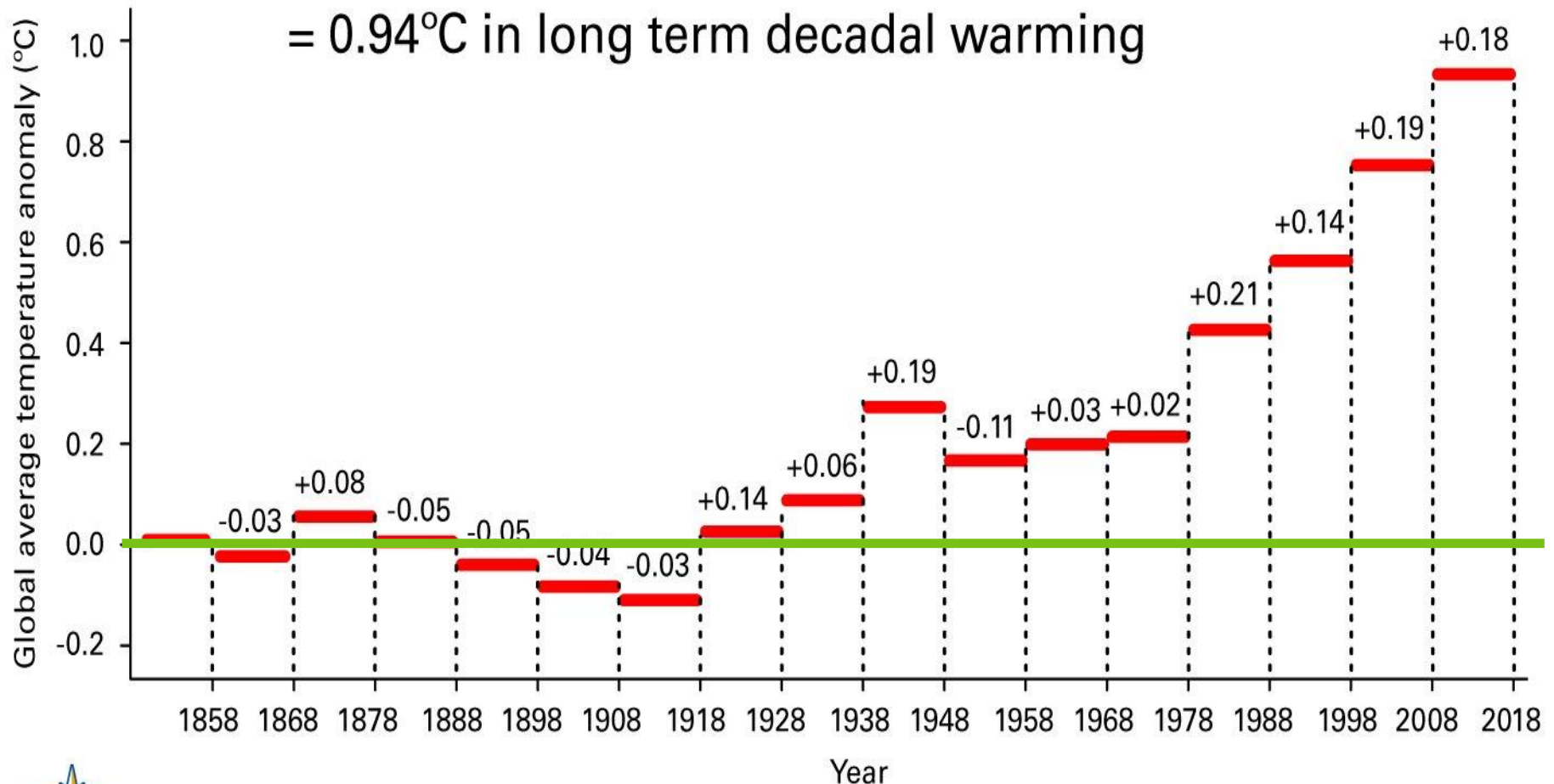
Scientists approach a bat cave in Queen Elizabeth National Park in Uganda in this 2018

ANNUAL GLOBAL SURFACE AIR TEMPERATURES FROM 1880 TO 2016



Sources: Copernicus Climate Change Service, ECMWF, for data from 1979;
Met Office Hadley Centre, NASA and NOAA for blended data prior to 1979.

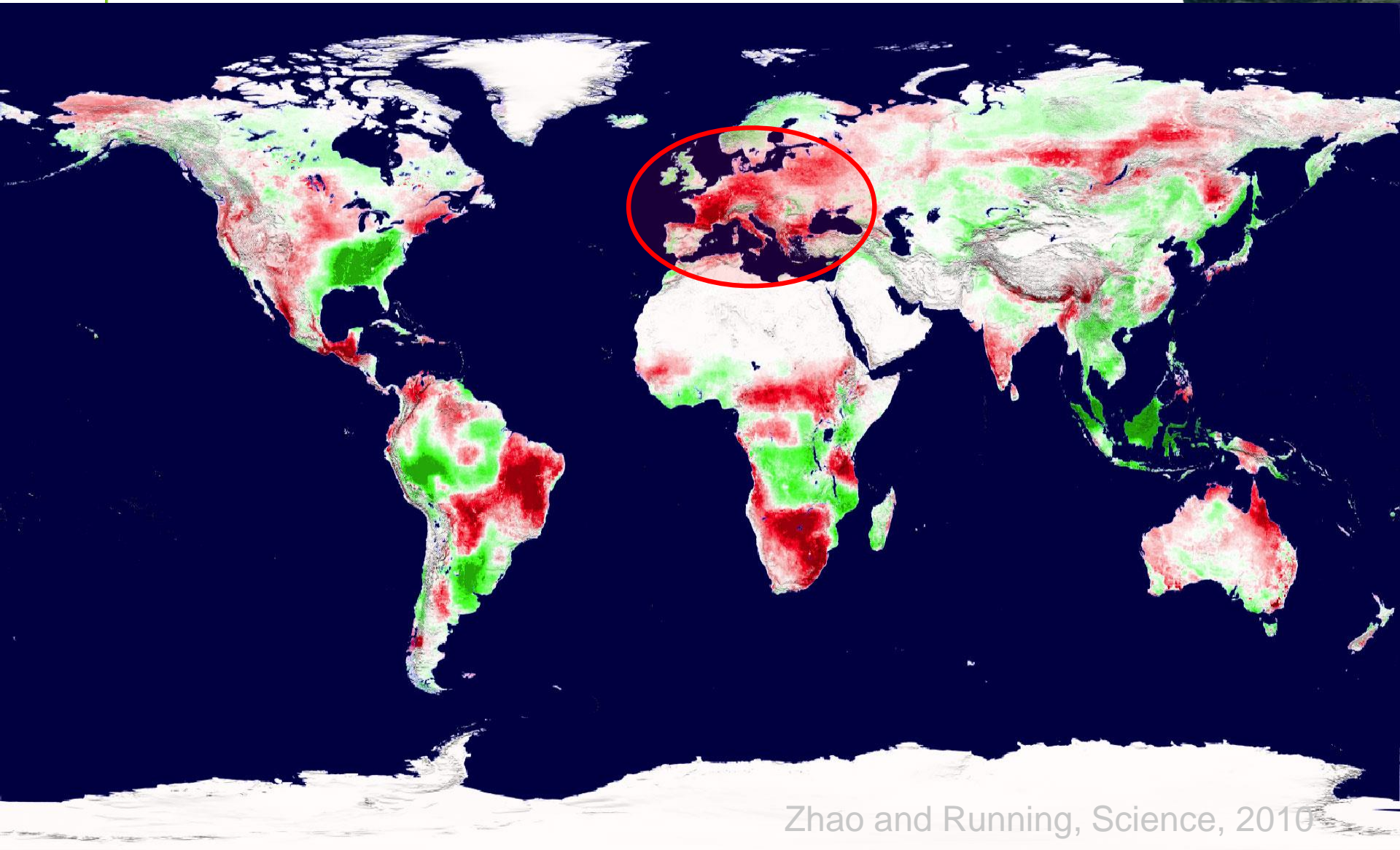
The «ten years challenge»



WORLD
METEOROLOGICAL
ORGANIZATION

WEATHER CLIMATE WATER

Reduction in primary production 2000-2009



Zhao and Running, Science, 2010

Where all emitted Carbon emitted has gone?

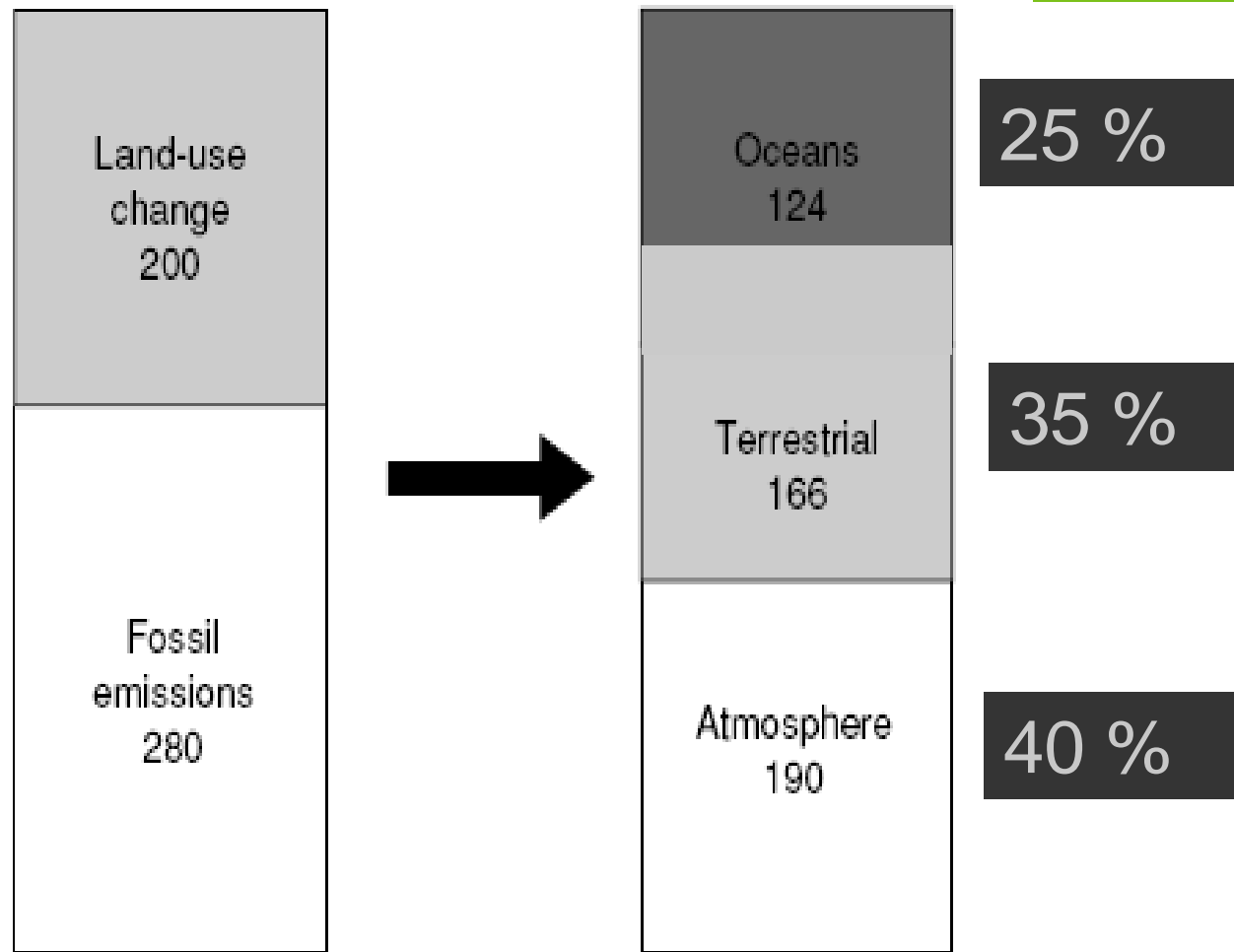


Fig. 1 Carbon sources and sinks over the last two centuries (PgC).

House et al, GCB, 2002

GLOBAL CARBON PROJECT

The Global Carbon Cycle (2007–2016)



88%
34.4 GtCO₂/yr



12%
4.8 GtCO₂/yr



17.2 GtCO₂/yr
46%



30%
11.0 GtCO₂/yr



24%
8.8 GtCO₂/yr

Budget Imbalance:
(the difference between estimated sources & sinks)

6%
2.2 GtCO₂/yr





Dudaim forest 1992



Dudaim forest 2004



Sistemi di Certificazione Forestale in Italia e nel mondo



www.pefc.it

*Programme for
Endorsement of Forest
Certification schemes*



www.fsc-italia.it

Forest Stewardship Council



PEFC addressing UN Sustainable Development Goals (SDGs)



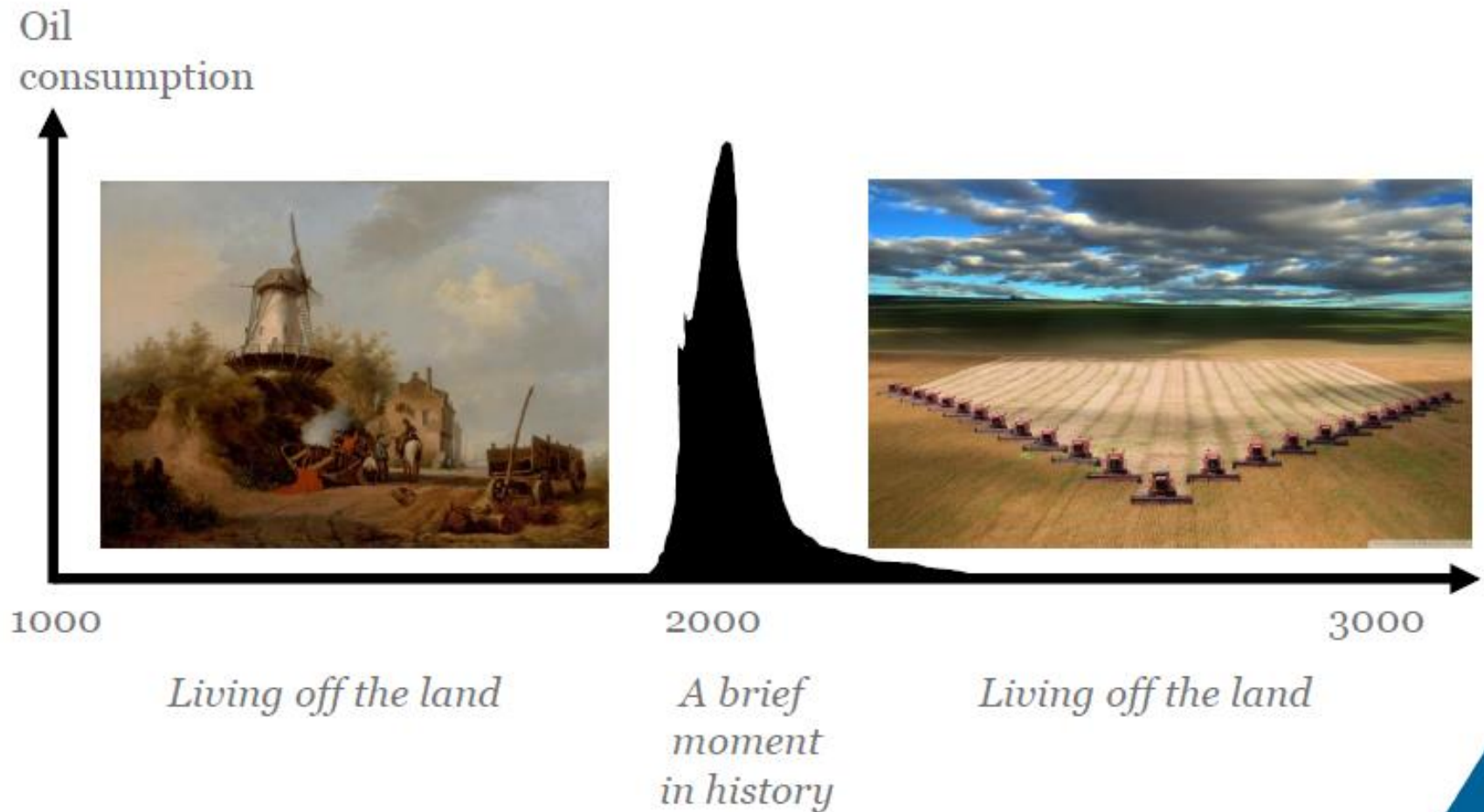
Of the 17, PEFC directly delivering against 14



Bioeconomy is a vision



From bioeconomy to bioeconomy



Smart: best use of the territory

New forest based bioproducts



Dissolving pulp



Increasing demand in textile markets to replace e.g. cotton and polyester

Chemicals & Biofuels



Replacing plastics & increasing demand in transportation sector

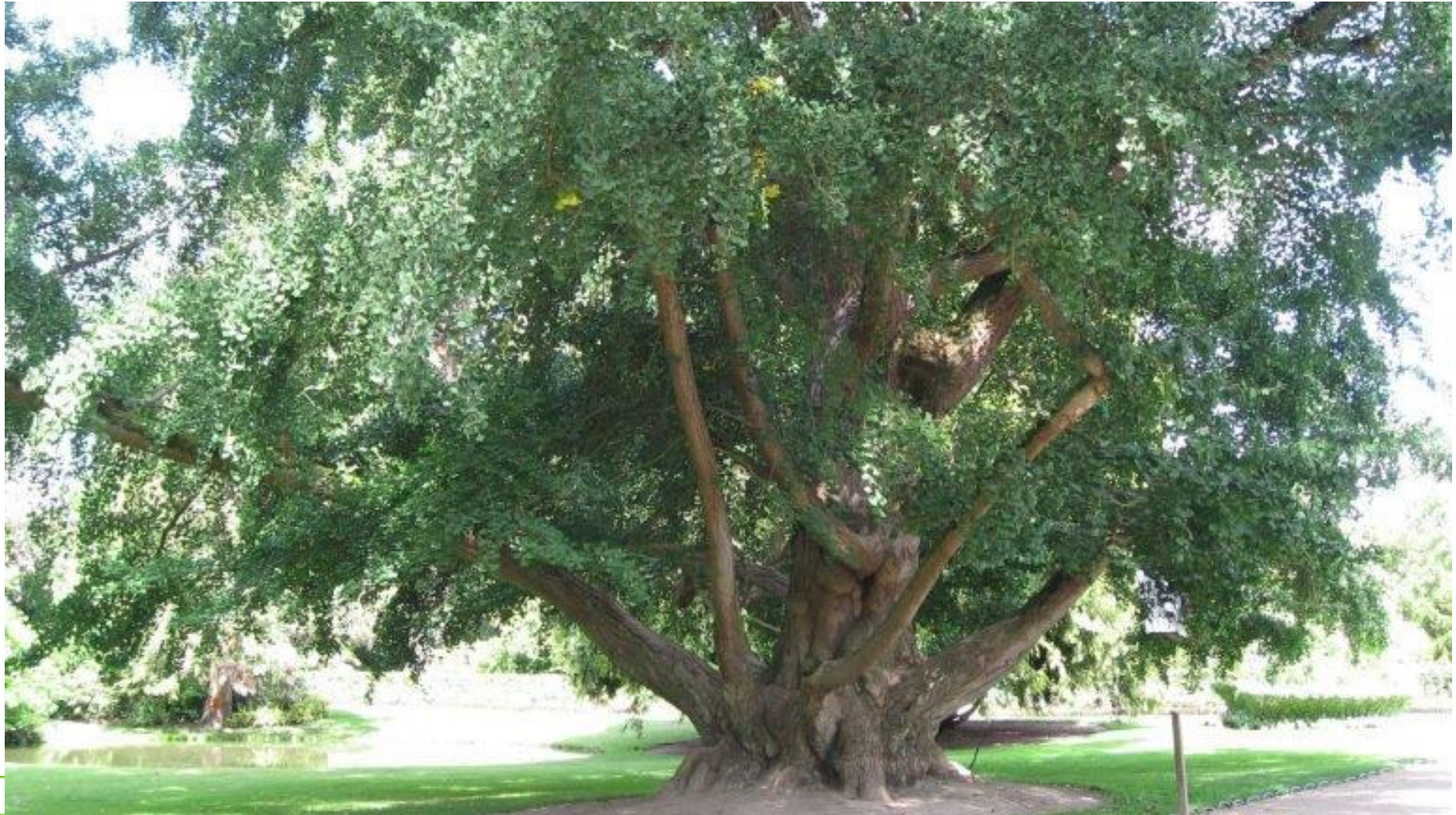
Construction materials



Increasing demand for low CO₂, healthy and cost competitive construction material

Hibakujumoku

Trees that survived at A-Bombs





Thank you!

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