



Keeping forests out of offset mechanisms

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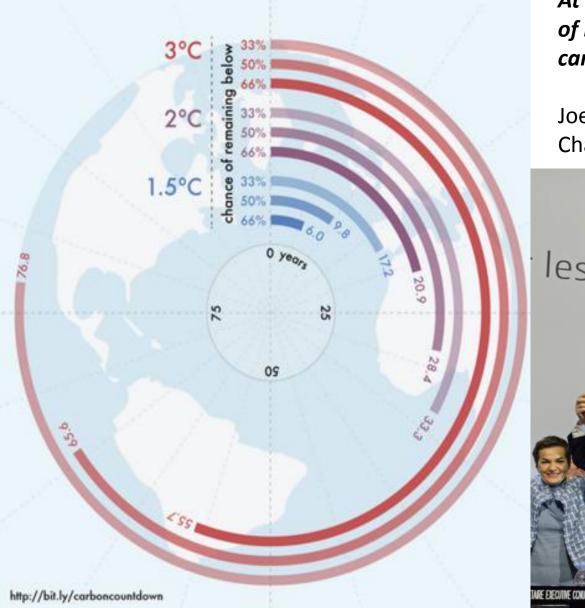
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caffree.

#### Carbon Countdown

How many years of current emissions would use up the IPCC's carbon budgets for different levels of warming?



"We have been overestimating the budget by 50 to more than 200%. At the high end, this is a difference of more than 1,000 billion tons of carbon dioxide"

Joeri Rogelj et al. Nature Climate Change, 2016.

Nations Unies les Changements Climatiqu

PRESIDENT

Paris, France

### Residence time of CO2 in the atmosphere

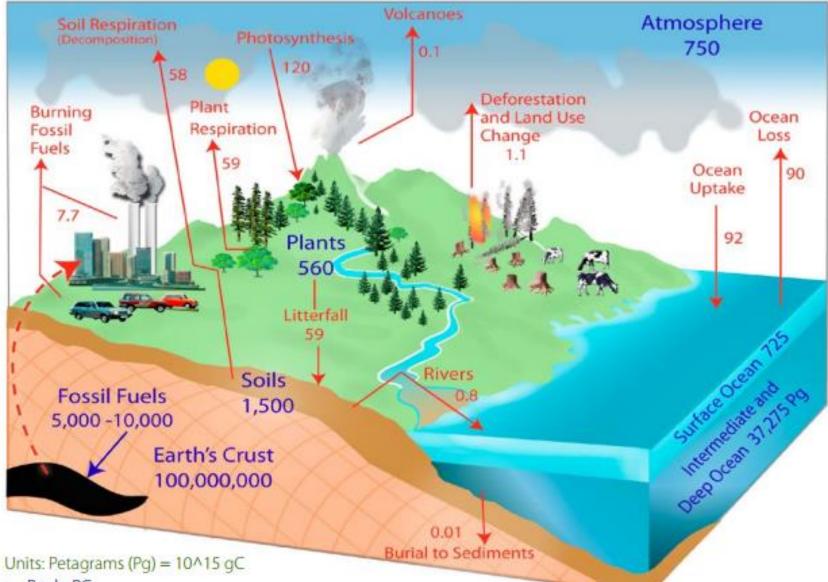
# Untangling the confusion around land carbon science and climate change mitigation policy

Brendan Mackey<sup>1\*</sup>, I. Colin Prentice<sup>2,3</sup>, Will Steffen<sup>4</sup>, Joanna I. House<sup>5</sup>, David Lindenmayer<sup>4</sup>, Heather Keith<sup>4</sup> and Sandra Berry<sup>4</sup>

Depletion of ecosystem carbon stocks is a significant source of atmospheric CO<sub>2</sub> and reducing land-based emissions maintaining land carbon stocks contributes to climate change mitigation. We summarize current understanding about h

lifetime conceals more than it reveals. CO<sub>2</sub> is taken up from the atmosphere by several distinct processes that have hugely different time constants<sup>7,8</sup>. Part of it is taken up by the land, and part dissolves in the ocean surface and mixes to the deep ocean. About 60% is removed from the atmosphere on a time scale of 100 years but it takes a very long time to remove the remaining fraction. A 'pulse' or unit of CO<sub>2</sub> emitted to the atmosphere is only fully removed from

The carbon cycle shown in petagrams, designed by the GLOBE Carbon Cycle Project.

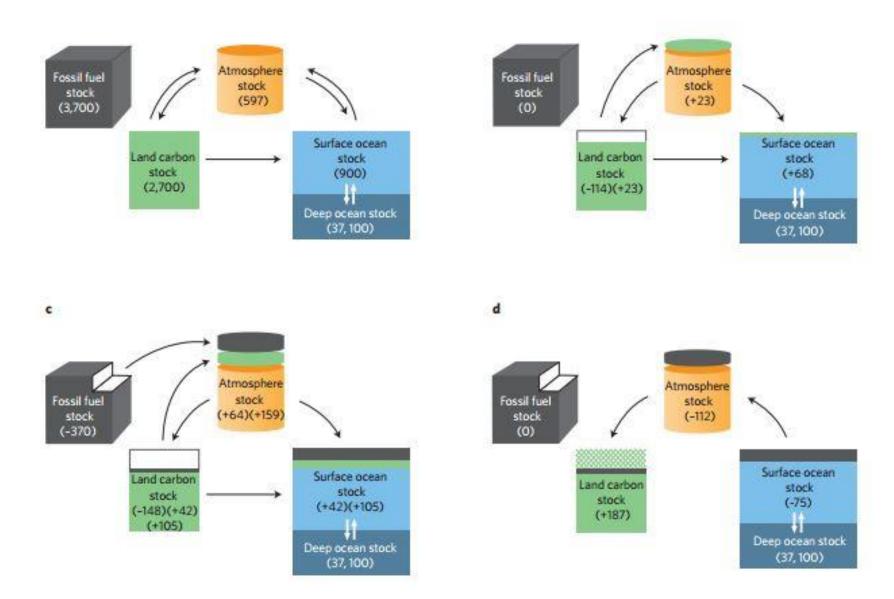


- Pools: PG
- Fluxes: Pg/year

Data Sources: Adapted from Houghton, R.A. Balancing the Global Carbon Budget. Annu. Rev. Earth Planet. Sci. 007.35.313-347, updated emissions values are from the Global Carbon Project: Carbon Budget 2009.



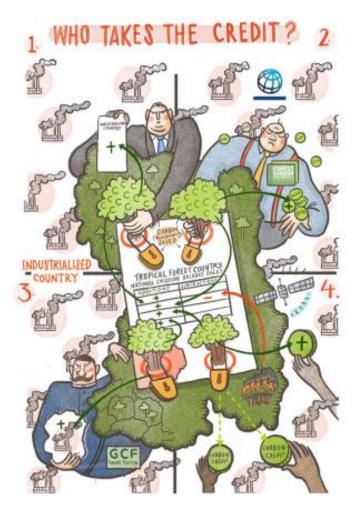
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Source: Mackey et al. Untangling the confusion around land carbon science and climate change mitigation policy, Nature Climate Change, 2013

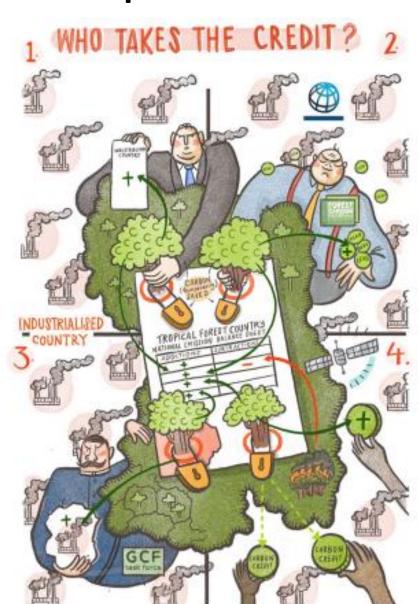
# ICAO GMBM – principles?

- No double-counting:
- 100 countries include
- land-use and forests
- www.fern.org/double-counting
- Permanent
- Do no harm



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### 2003, Portugal: 417,000 ha affected



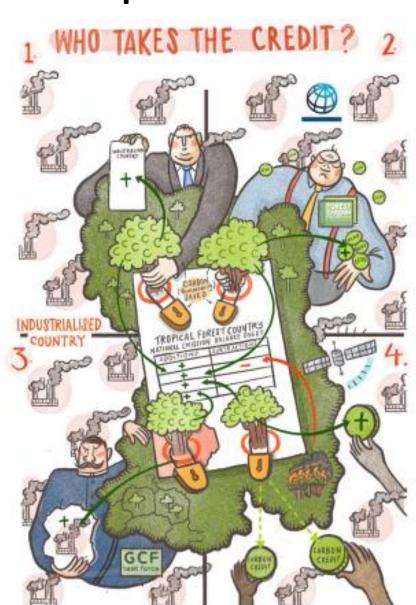
# Where is the forest tipping point?

#### 2012, UK: Ash Die-back 130,000ha affected



# ICAO GMBM – principles?

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- Permanent
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#### Land-based offset projects are never conflict-free!

Because the 'product' being created and traded is the <u>absence of an activity</u>

(emissions are avoided that otherwise *would have been* released; forests are protected that otherwise *would have been* destroyed) – *permanent surveillance and monitoring* necessary





In Brazil, deforestation in indigenous community forests from 2000 to 2012 was less than 1 percent, compared with 7 percent outside them.

Indigenous community forests contain 36 percent more carbon per hectare than other areas of the Brazilian Amazon

#### Source:

http://www.wri.org/sites/default/files/sec uringrights-full-report-english.pdf

### **Recognising rights**



#### Improving governance

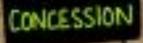
#### www.fern.org/storiesfromtheground



- VPA in Indonesia led to 75% decrease in illegal logging In Liberia, VPA led
- to cancellation of 2million ha of illegal concessions and head of the Forestry Development Authority has been jailed

"Half of all recent tropical deforestation has been illegal conversion for commercial agriculture"

Forest Trends, 2014





**EU Action Plan on Deforestation** 

- Almost 70 per cent of deforestation in the tropics is for commercial agriculture, 50% of this is illegal
- EU imported beef, soybeans, palm oil and leather from illegally deforested land in 2012 worth 6 billion EUR
  - EU imports 36% of deforestation embodied in internationally traded agricultural commodities



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