



# International Forestry Plantations

## Sustainable Future or Unsustainable Past

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# Content

- » Introduction
- » Definitions and a bit of history
- » What are the drivers for plantations?
- » What are the main concerns?
- » What mistakes have been made?
- » How can we do it better ?
- » Certification – green badge or green wash?

# Not Content

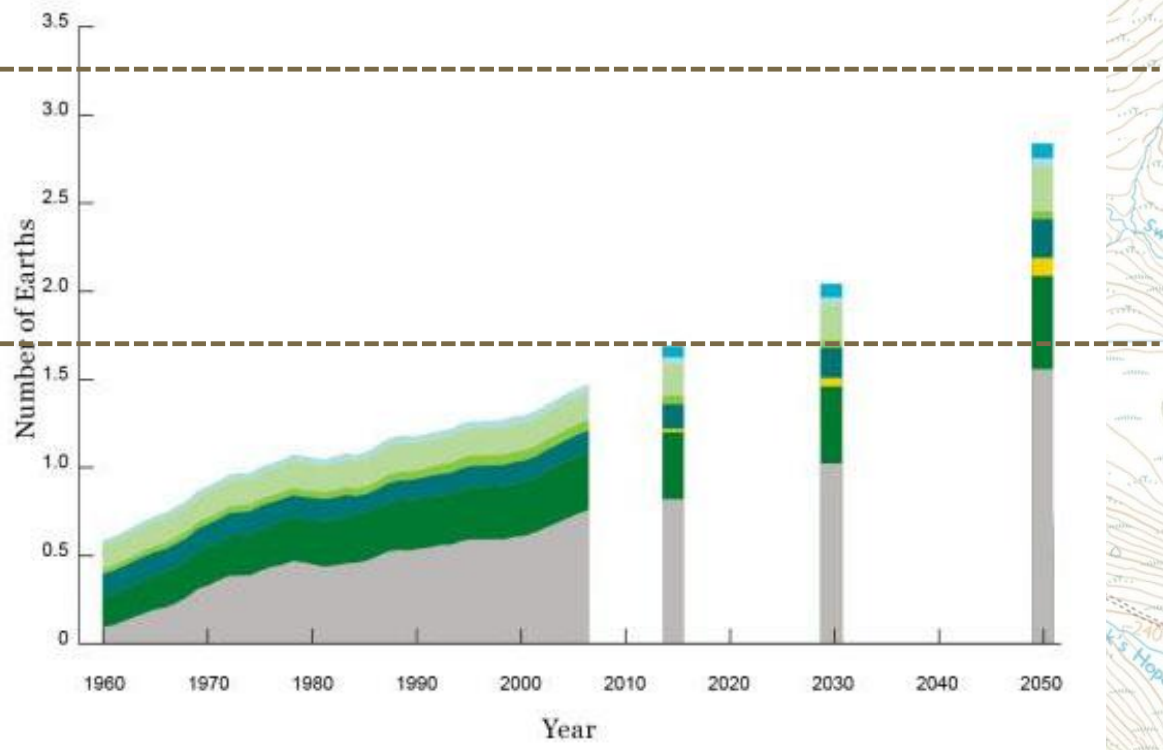
- » What am I not going to talk about – because I don't know
  - Oil-palm and Acacia, South East Asia Plantations
- » What I am not going to talk about, but know a little about and happy to answer questions
  - Tropical timber, Trees and GMOs, Drax and Biomass



# Key points

- » Land sharing vs land sparing
- » Sustainability – it's a journey, it's a way of thinking and working, its not a destination.
- » Think global, act local – Scottish land-use challenges are replicated globally.
- » Think global, act local – most forest products are globally traded.
- » What should you be aware of and where to find more information?

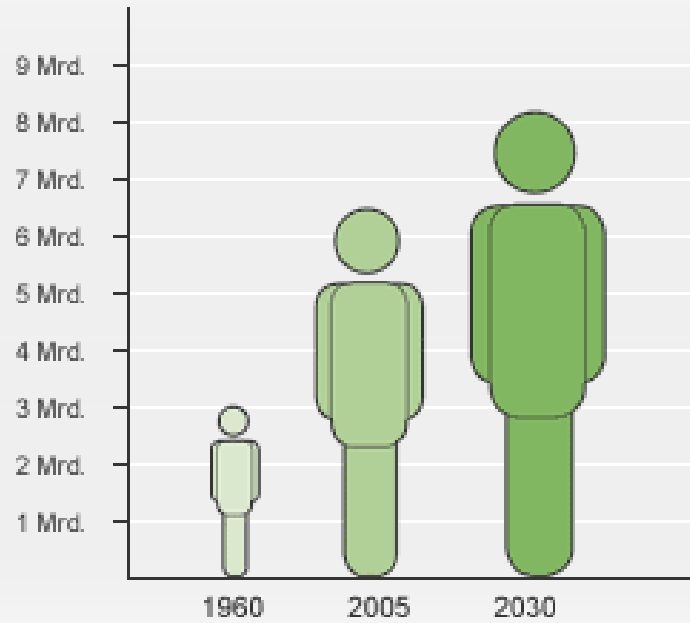
# We will run out of land in a matter of decades



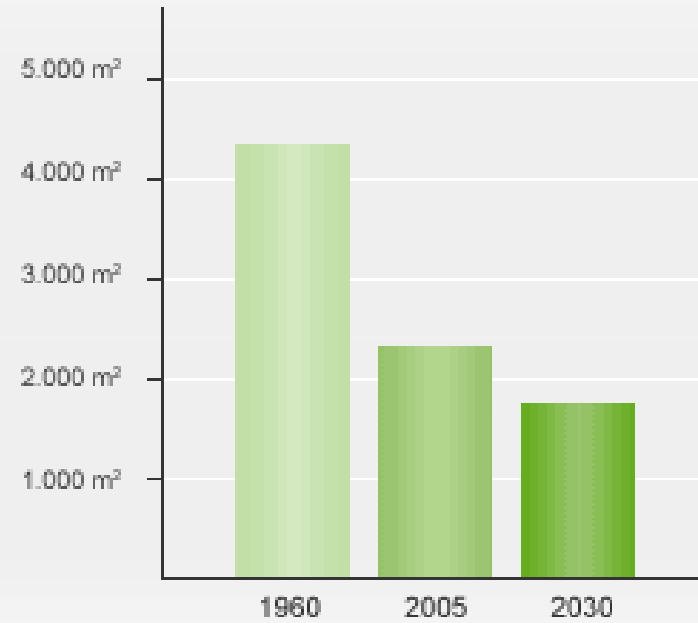
**Key**

- Biodiversity
- Built-up land
- Forest
- Fishing
- Grazing
- Biofuels
- Cropland
- Carbon

## World population growth



## Arable land per capita



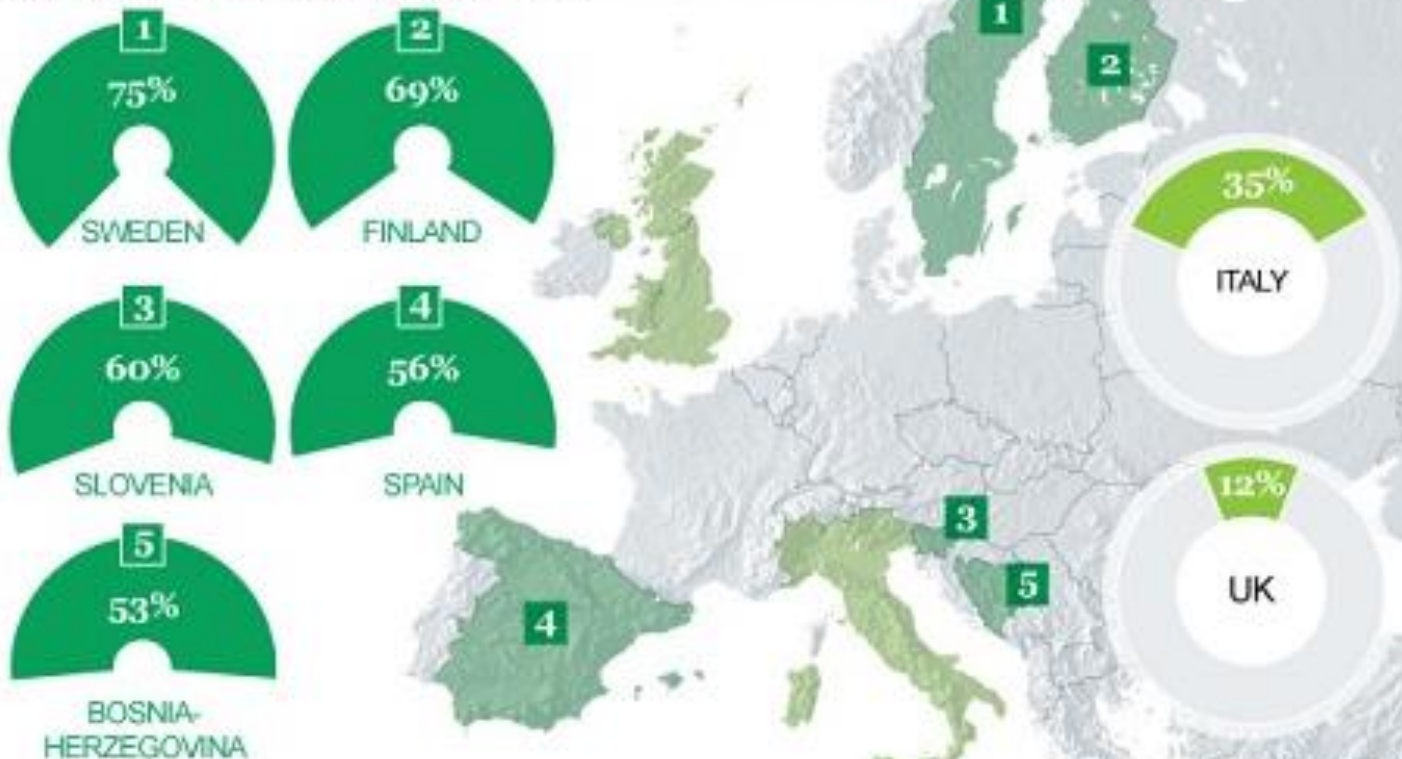
Source: FAO



# UK is the 2nd biggest timber importer in the world

## Top five most forested countries in Europe

Percentage of their territory covered in trees



Source - CIA World Fact Book

**Where do we find all this timber?**

»UK ?

Overseas ?

»Natural Forests?

Plantations ?



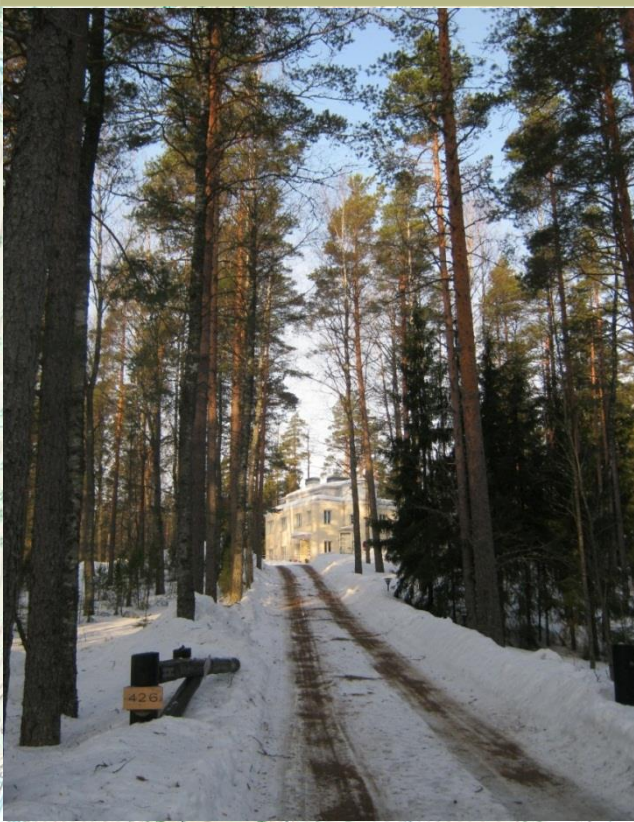




Finland 80 year rotation  
6 m<sup>3</sup> / hectare / year

UK 35 year rotation  
14 m<sup>3</sup>/ ha / year

Uruguay 9 year rotation  
28 m<sup>3</sup> / hectare / year



# Definitions – forests vs plantations



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# FORESTS BY NUMBERS

\*UNLESS OTHERWISE NOTED, THE INFORMATION ON THIS PAGE COMES FROM THE FAO<sup>6</sup>



Temperate forests in much of the northern hemisphere are expanding. Tropical forests and forests in some temperate regions of the southern hemisphere are shrinking.

## 31% OF THE WORLD'S LAND SURFACE IS FOREST

OVER HALF OF THE WORLD'S FORESTS ARE IN 5 COUNTRIES: CANADA, THE USA, BRAZIL, RUSSIA AND CHINA

1.31 Billion hectares of forests (around one-third of the world's forest cover) are classified as intact forest landscapes<sup>8</sup>

### FORESTS SUPPLY ECOSYSTEM SERVICES:

carbon sequestration; protection against floods, landslides, avalanches, ocean surges, and desertification; provision of clean water, medicines, crops, and fish; space for recreation and exercise; and places sacred to the world's various faiths<sup>9</sup>



**7%**  
OF TOTAL FOREST COVER IS PLANTED, YET THIS COULD PROVIDE AROUND TWO-THIRDS OF GLOBAL INDUSTRIAL WOOD PRODUCTION<sup>7</sup>

**1.6 BILLION PEOPLE**

**ARE SUPPORTED BY FORESTS**  
**300 MILLION PEOPLE LIVE IN FORESTS**  
INCLUDING 60 MILLION INDIGENOUS PEOPLE  
10 MILLION WORK IN FOREST MANAGEMENT AND CONSERVATION

**\$100 BILLION (USD)**



THE VALUE OF WOOD REMOVED FROM FORESTS PER YEAR 2003-2007

ABOUT 47% OF FORESTS ARE TROPICAL, 9% SUBTROPICAL, 11% TEMPERATE & 33% ARE NORTHERN BOREAL



THE TEN COUNTRIES WITH THE LARGEST ANNUAL NET LOSS OF FOREST AREA, 2000-2010 ARE 1. BRAZIL 2. AUSTRALIA 3. INDONESIA 4. NIGERIA 5. UNITED REPUBLIC OF TANZANIA 6. ZIMBABWE 7. DEMOCRATIC REPUBLIC OF THE CONGO 8. MYANMAR 9. BOLIVIA 10. VENEZUELA





WWF

REPORT

INT

2012



WWF LIVING FORESTS REPORT: CHAPTER 4

# FORESTS AND WOOD PRODUCTS

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# Problems with plantations



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# Problems with plantations





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# New Generation Plantations



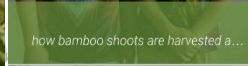
edible bamboo



carbon funding and bamboo



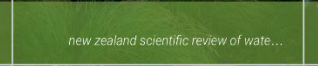
plantations and water



how bamboo shoots are harvested a...



china green carbon fund



new zealand scientific review of wate...



IDEAS



IDEAS



IDEAS



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# New Generation Plantations Project

MAINTAINING  
**ECOSYSTEM  
INTEGRITY**



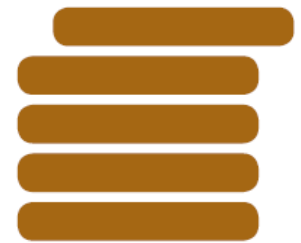
PROTECTING AND ENHANCING  
**HIGH CONSERVATION  
VALUES**



DEVELOPED  
THROUGH EFFECTIVE  
**STAKEHOLDER  
INVOLVEMENT  
PROCESSES**



CONTRIBUTING TO  
**ECONOMIC  
GROWTH  
AND EMPLOYMENT**





## Ecosystem Integrity

- National and international legislation
- Forest management certification
- Forest carbon certification
- Environmental impact assessment
- Best management practices



## Stakeholder Involvement

- » National and international legislation
- » Forest management certification
- » Social impact assessment
- » Best management practices



## High Conservation Values

- National and international legislation
- Forest management certification
- Environmental impact assessment
- HCV Resource Network toolkits
- Best management practices



## Economic Development

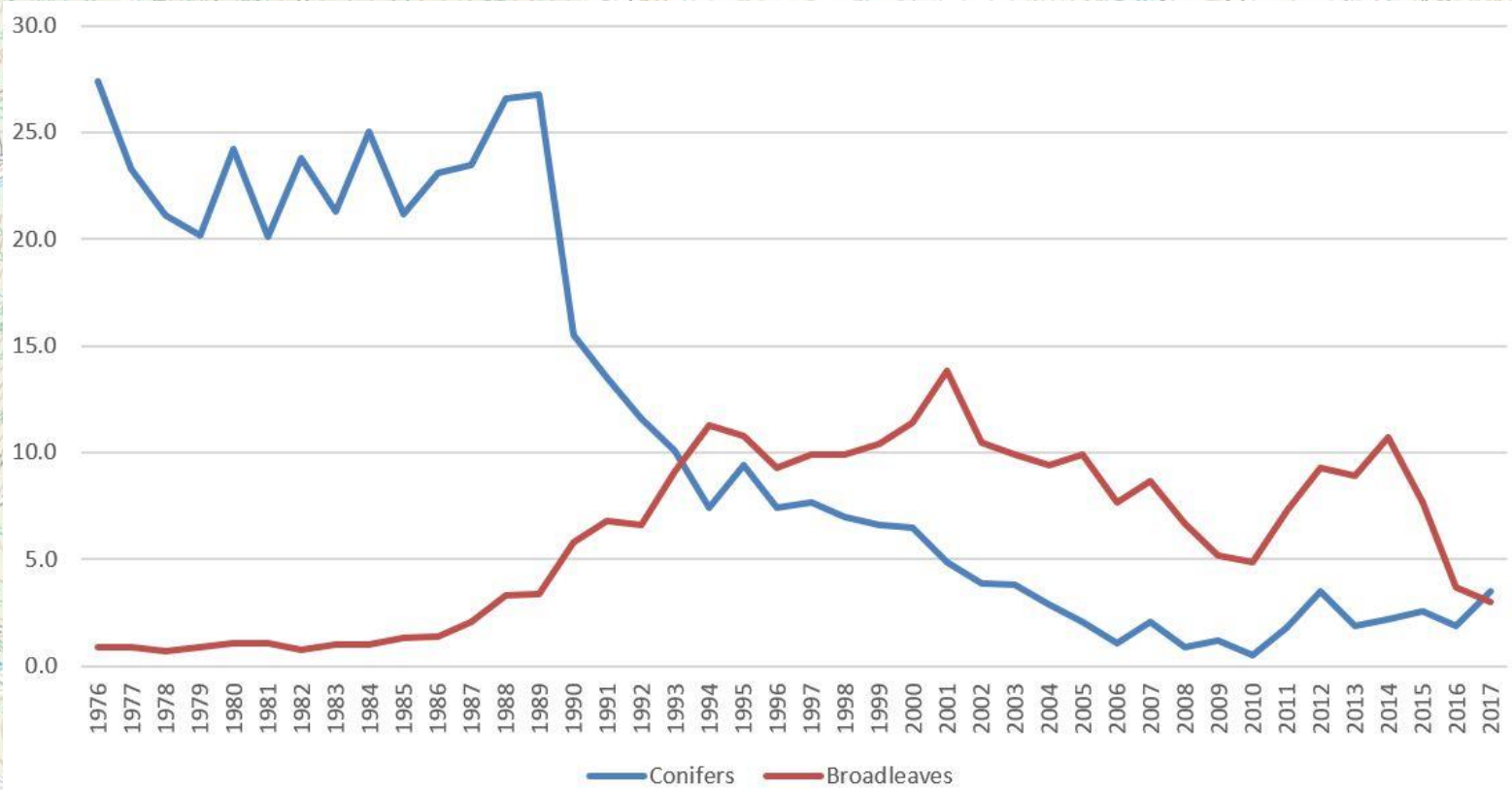
- International labour standards
- Labour and trade certification
- Economic impact assessment
- Forest management certification

## Sustainable Plantations

- Resource Efficient:
- FSC Certified
- Community Involved



# Productive v amenity woodland





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# Can we do this sustainably?

## Forest and Plantation Certification



SUSTAINABLE  
FORESTRY  
INITIATIVE

- » International forest management standards
- » Documented and agreed principles and criteria for sustainability.
- » Independently audited and verified.
- » FSC supported by Greenpeace and WWF.

# Certification

## » Positives

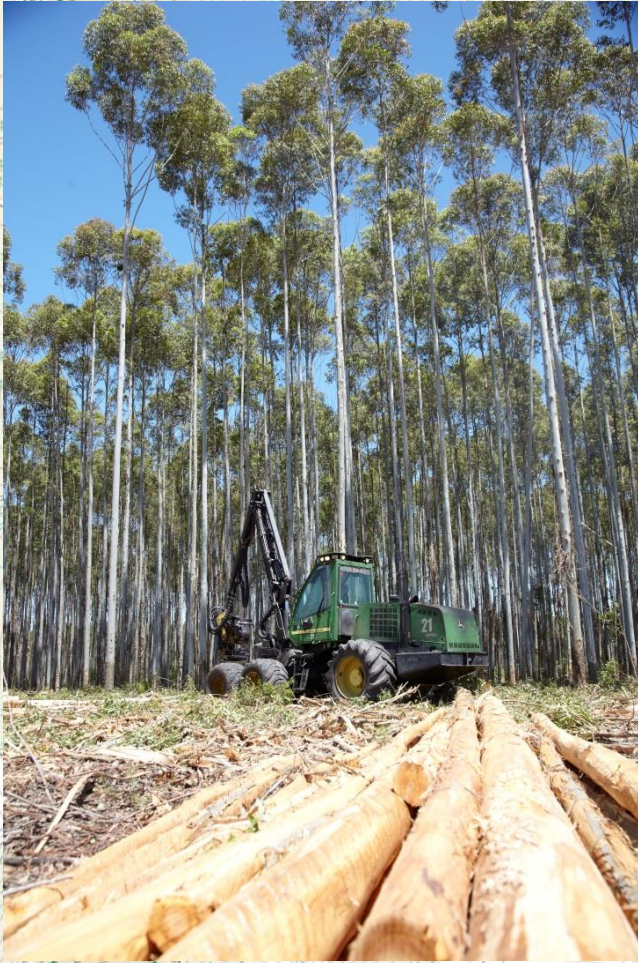
- » Well recognized standard & logo
- » Endorsed by NGOs
- » Market access
- » Makes buying the right timber simple ..

## » Negatives

- » A bit clunky
- » Process not outcomes
- » Slow to change
- » One size does not fit all
- » Reputation is easily damaged



# Plantations can be part of the solution



*“In the right place and managed sustainably, tree plantations can reduce the pressure to bring natural forest areas into production. Improvements in landscape planning and planting techniques could boost productivity even more.”*

Source:

WWF Living Forests Report, chapter 4, Forests and Wood Products

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# Forest Grabbing in Romania is destroying pristine nature and rural livelihoods

11 June, 2015 ARC Latest from EU Member States, Recent updates



Source: [www.agro-siri.info/gerald-schweighofer/](http://www.agro-siri.info/gerald-schweighofer/)  
Gerald Schweighofer: Forest Grabber

By Derek Freitas, Food Chains Campaign Coordinator for Eco Ruralis

Around two-thirds of Europe's last remaining old-growth forests are located in Romania. Despite this positive fact, the national government admits that illegal logging takes place. Every day an amount of 48 hectares is cut in Romania. This means more than 17,000 hectares are illegally cut each year! Who's doing it and what about legal deforestation?

Holzindustrie Schweighofer



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Thank you for listening !

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# Why me?

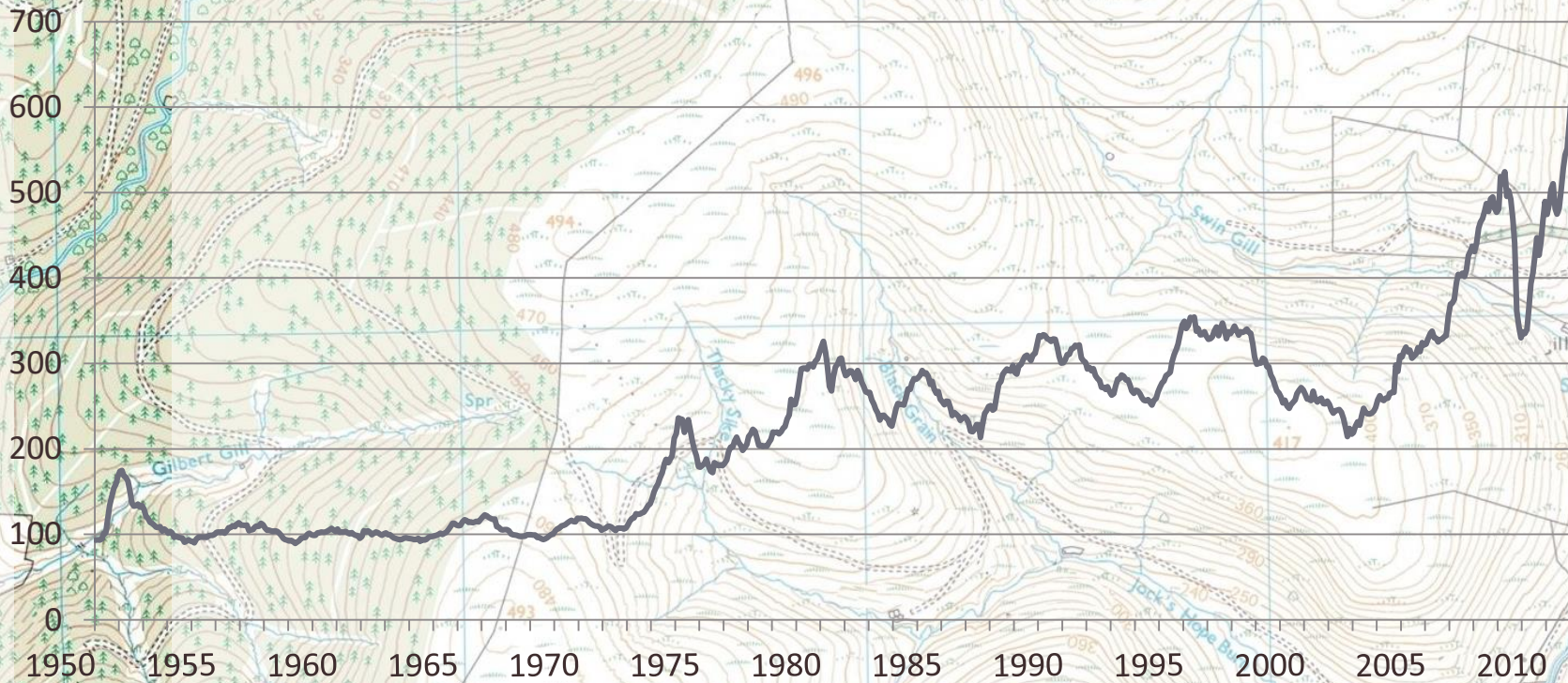


# Key points

- » Land sharing vs land sparing
- » Sustainability – it's a journey, it's a way of thinking and working, its not a destination.
- » Think global, act local – most forest products are globally traded.
- » If you don't like plantations – stop buying plantation products
- » What should you be aware of and where to find more information?

CRB BLS Raw Industrials index

# Increase in raw material costs will continue



CRB BLS Raw Industrials: Hides, tallow, copper scrap, lead scrap, steel scrap, zinc, tin, burlap, cotton, print cloth, wool tops, and rubber

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# So which material is.....?

- Stores CO2
- Renewable
- Reusable
- Recyclable
- Biodegradable
- Combustible

What other material should we build our homes with?

What other material should we print on?

# Why does this matter to us?

