



Target of unfair attacks. Facts about the paper and printing industries

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Prof dr. Endrédy Ildikó – Prof dr. Patkó István

Contents

- Relevance of the topic.
- Environmental protection in paper and printing industries.
- Data and facts about world's forest.

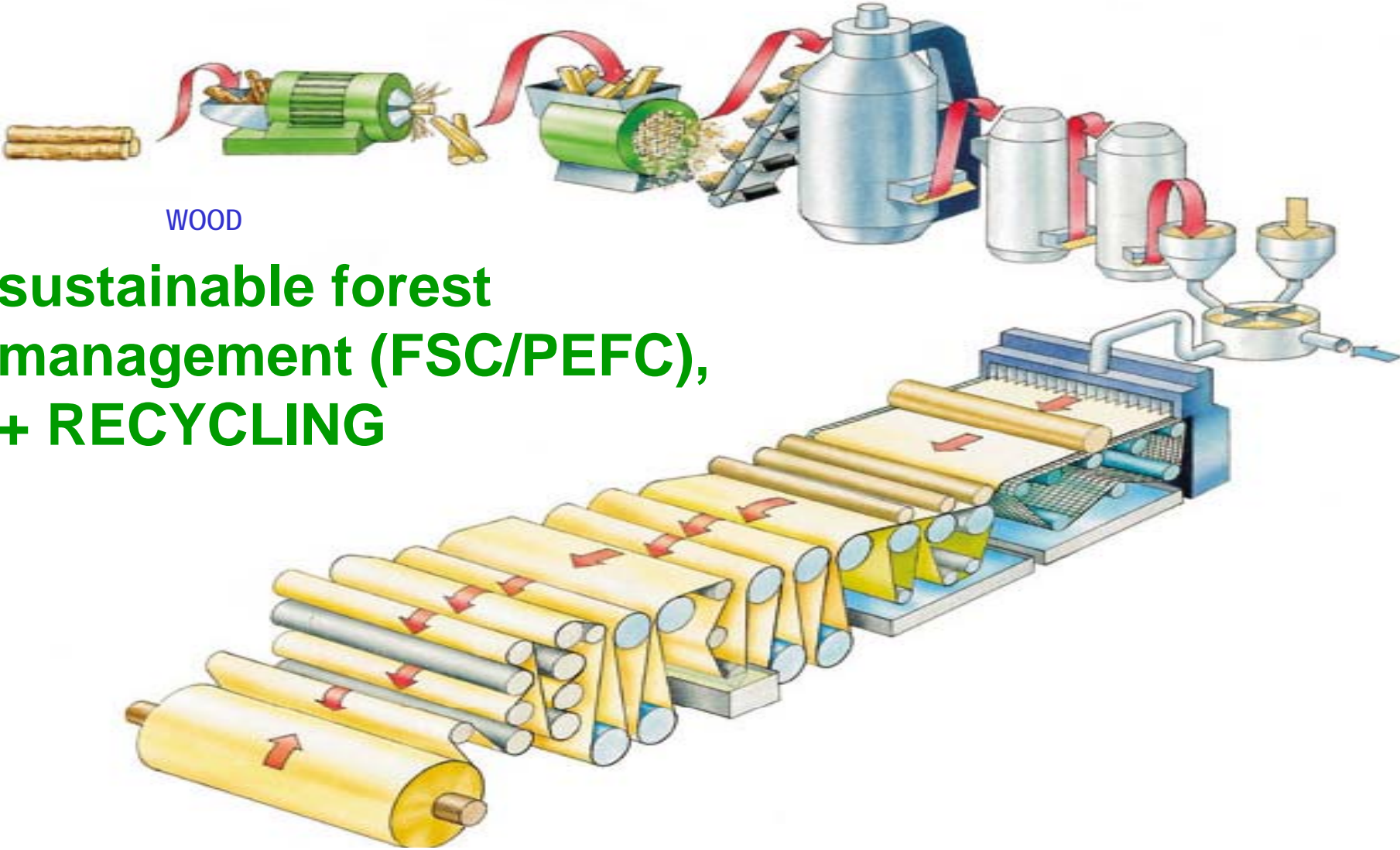
Introduction



*„Paper = wood removal =
= greenhouse effect =
= global warming =
= climate change =
= destruction”*



Pulp and paper industry



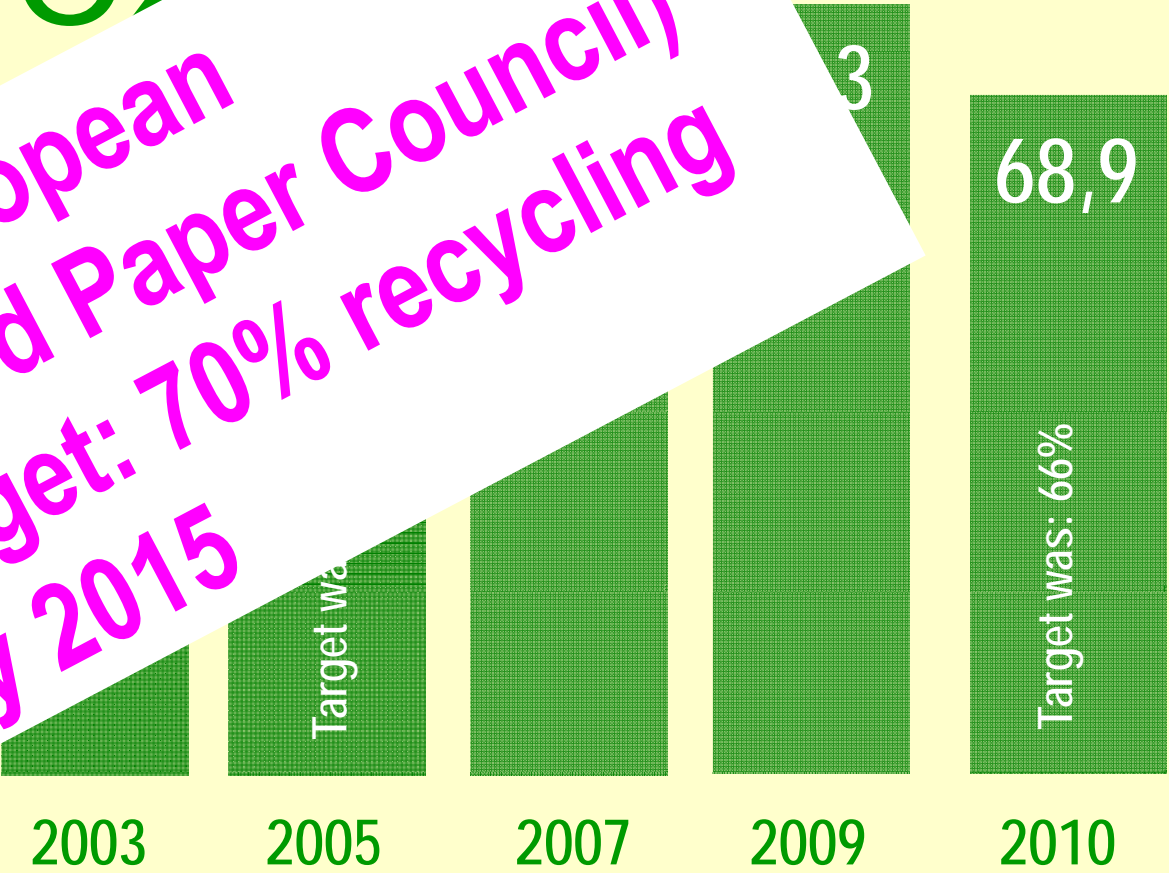
WOOD

**sustainable forest
management (FSC/PEFC),
+ RECYCLING**

European paper recycling



**ERPC (European Recovered Paper Council)
new target: 70% recycling rate by 2015**



(Source: European Recovered Paper Council 2010)

(Global recycling rate, 2009: 55,6% ICFPA, 2011)

Pulp and paper industries

- 1 t paper needs

earlier

250 – 300 m³ water

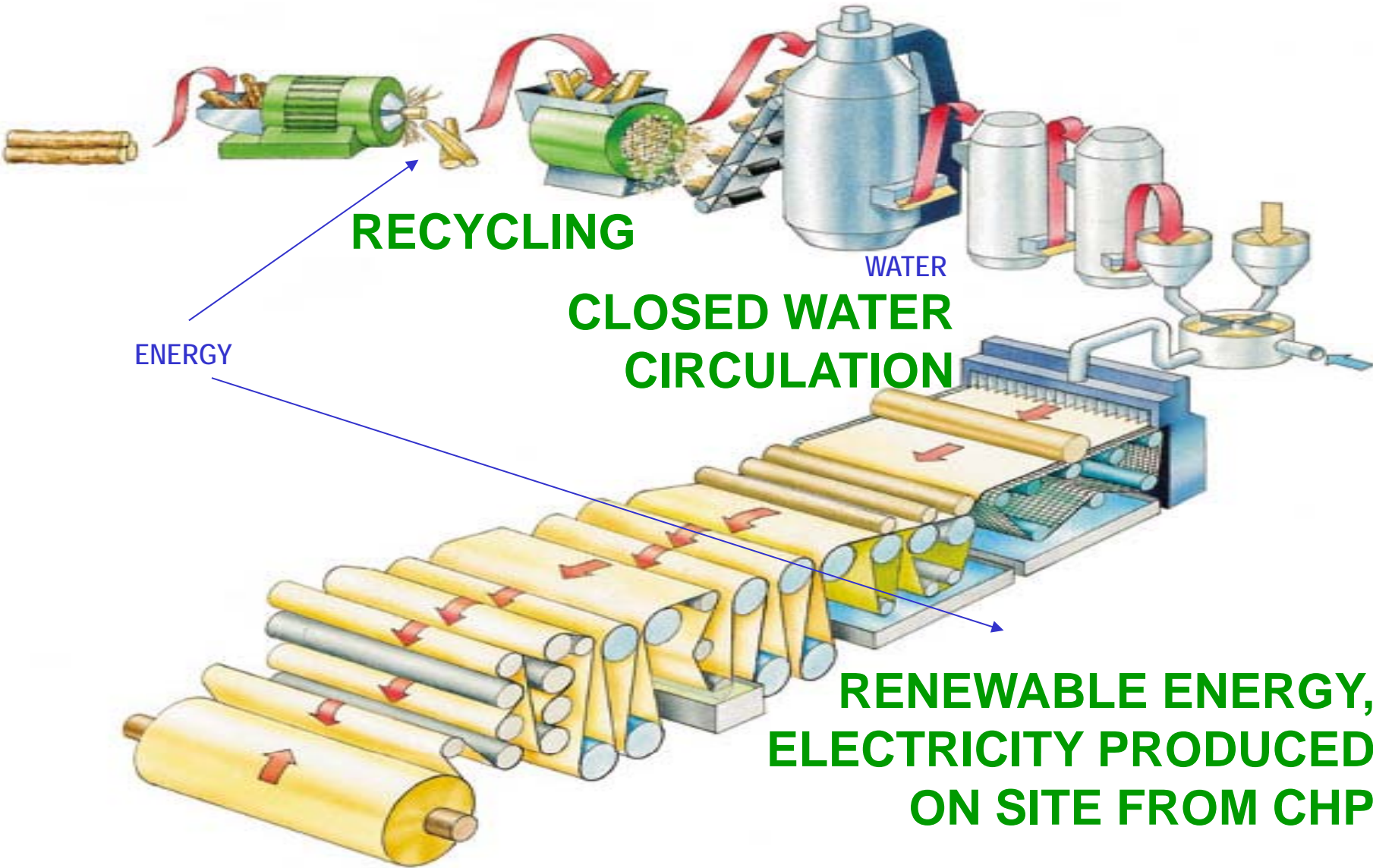
now

(closed water system)

2 – 8 m³ water



Pulp and paper industries



Pulp and paper industries

- **Used energy**

- Renewable energy
 - CHP (combined heat power)

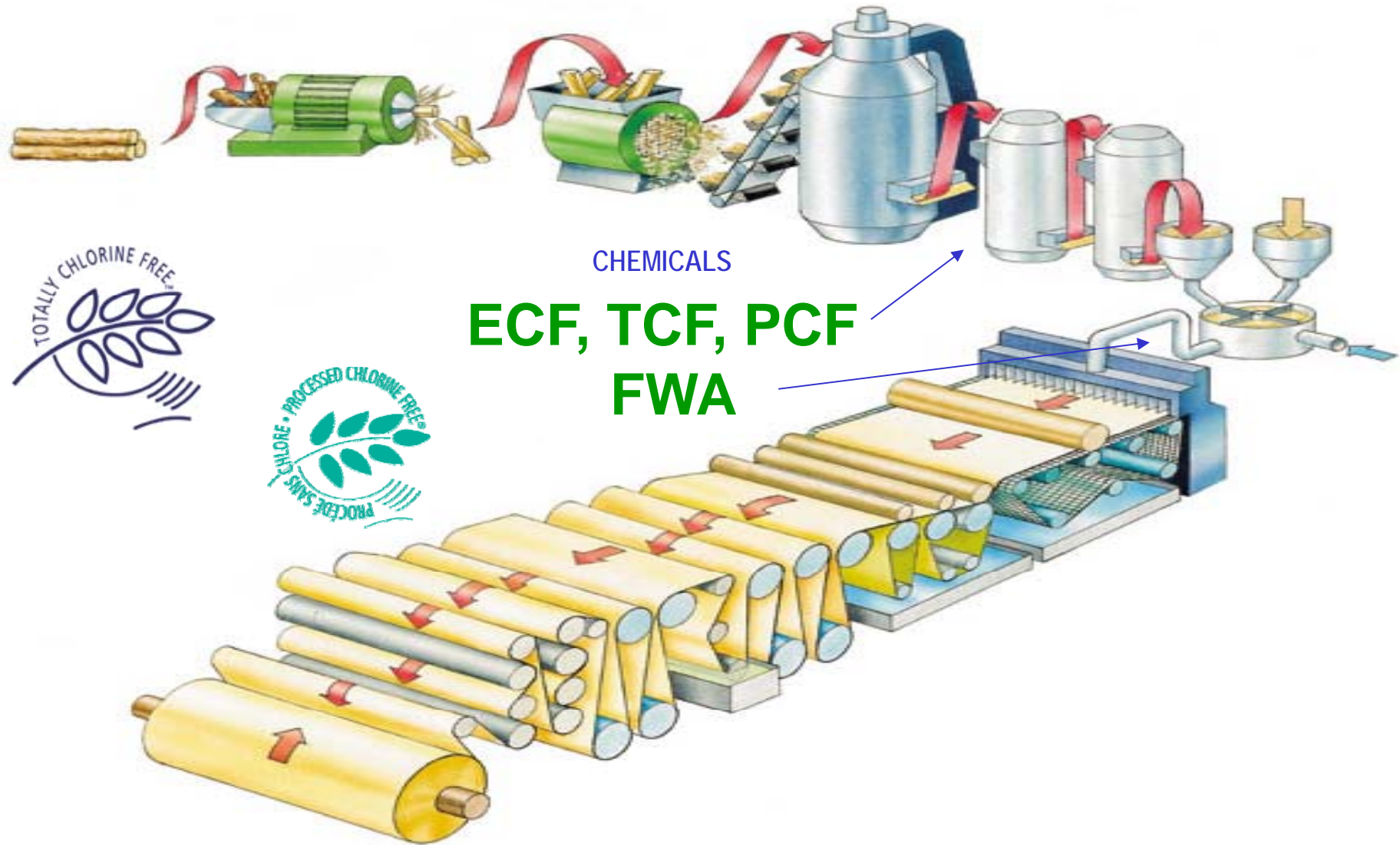
- **Europe**

- 54% of energy consumed is renewable energy

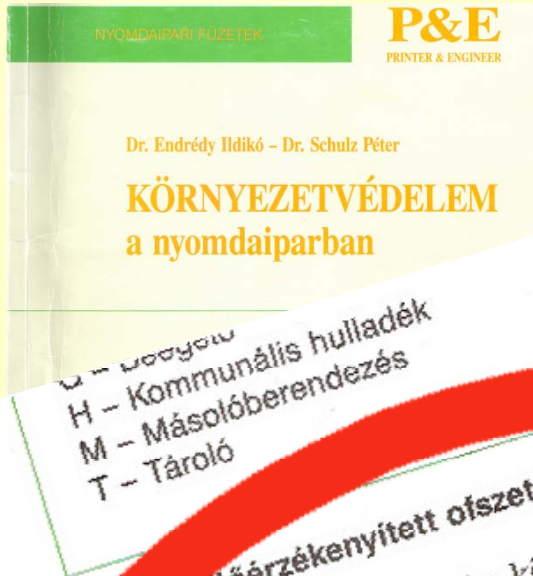
- 96% of electric energy consumed is CHP in-situ



Pulp and paper industries



Printing industry 20–30 years ago

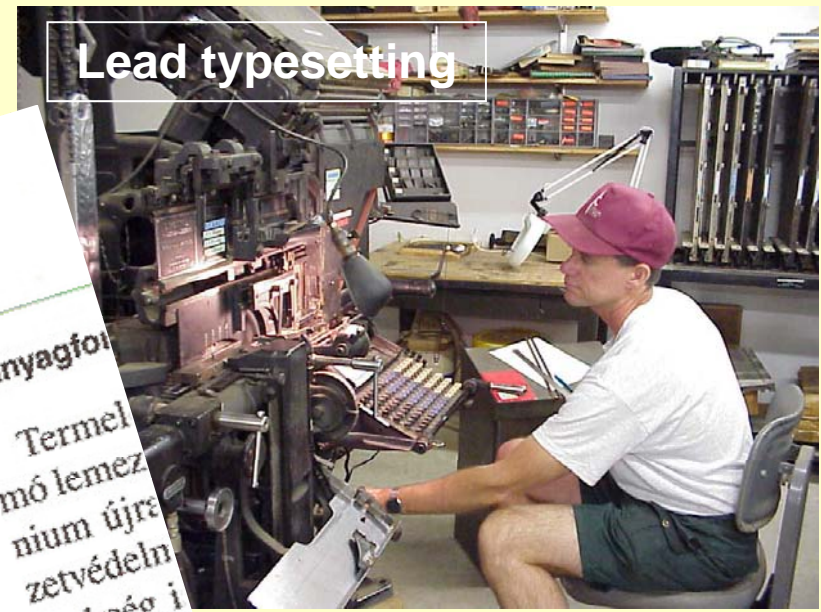


- H - Kommunális hulladék
- M - Másolóberendezés
- T - Tároló

Előérzékenyített ofset nyomólemezek

3. Előérzékenyített ofset nyomólemezek közvetlenül a közcsatornába kerülnek kb. 20%-át szelektív gyűjtés után szakcégek adhatják, s mintegy 10%-át a nyomdán belül semlegesítik a közcsatornába. Az elhasznált előérzékenyített ofset nyomólemezek kémiai oxigénigény-értéke egy nappal későbbi szennyvízkezelés során (pH=12-13). Az oldatok szárazanyag-tartalma izzítási maradéka nagy, de nem éri el az ezüst alapú filmanyagok elhasznált előhívóoldataiban mérhető értékeket. A szerves-

Farmer's reducer
 $K_3[Fe(CN)_6]$



Lead typesetting



Chromofag

Green raw materials and ingredients
Green technologies
Environmental awareness



Printing industry



FSC – Forest Stewardship Council
CoC – Chain of Custody

Now (2012) in EU27

FSC printing:

10.067 factories have FSC + CoC

among these

2558 book printers have FSC

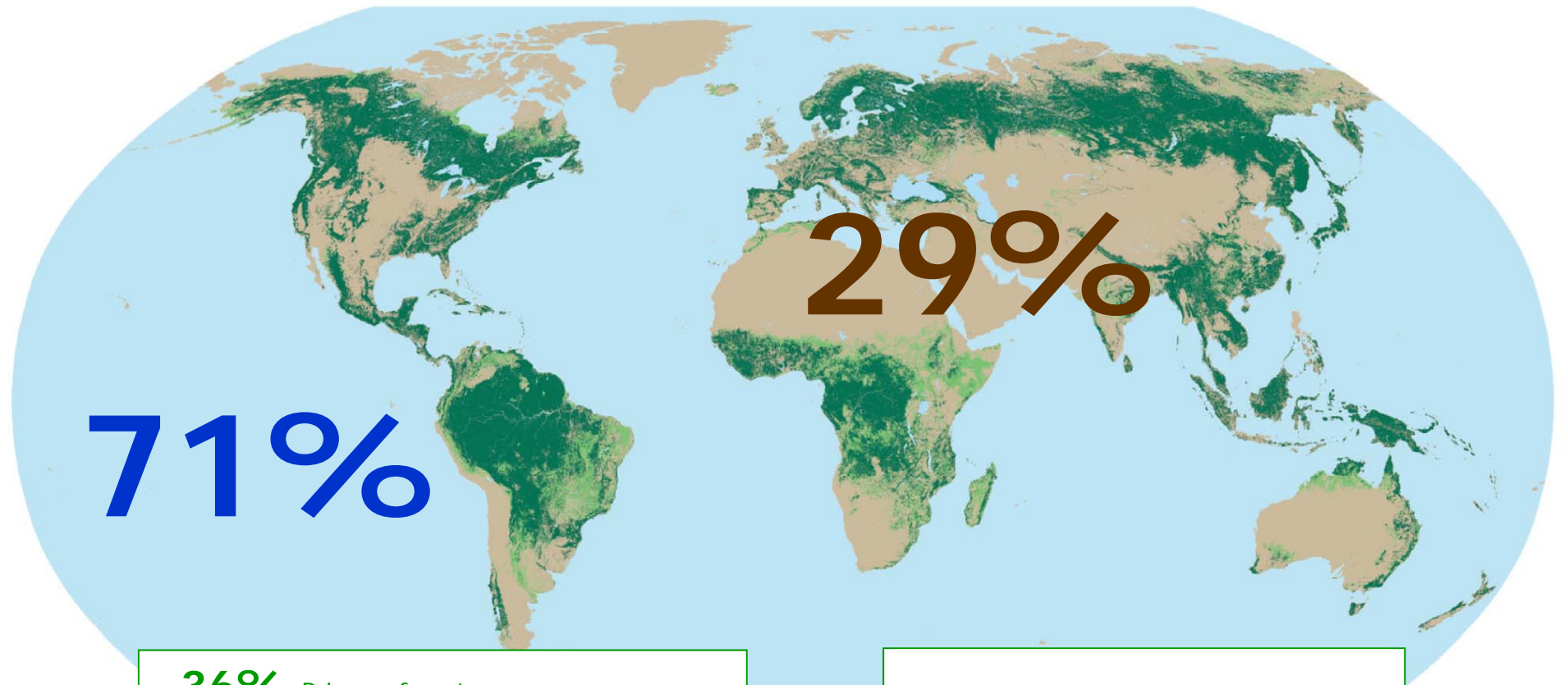
Printing industry

Factories with certification

UK	867
Germany	601
Italy	311
France	253
....	
Hungary	21

A photograph of a dense forest with tall, straight trees and a thick layer of ferns on the forest floor. The scene is misty, with a soft, diffused light filtering through the canopy. The text is overlaid in the center of the image.

Facts about forests and raw material for paper manufacture



71%

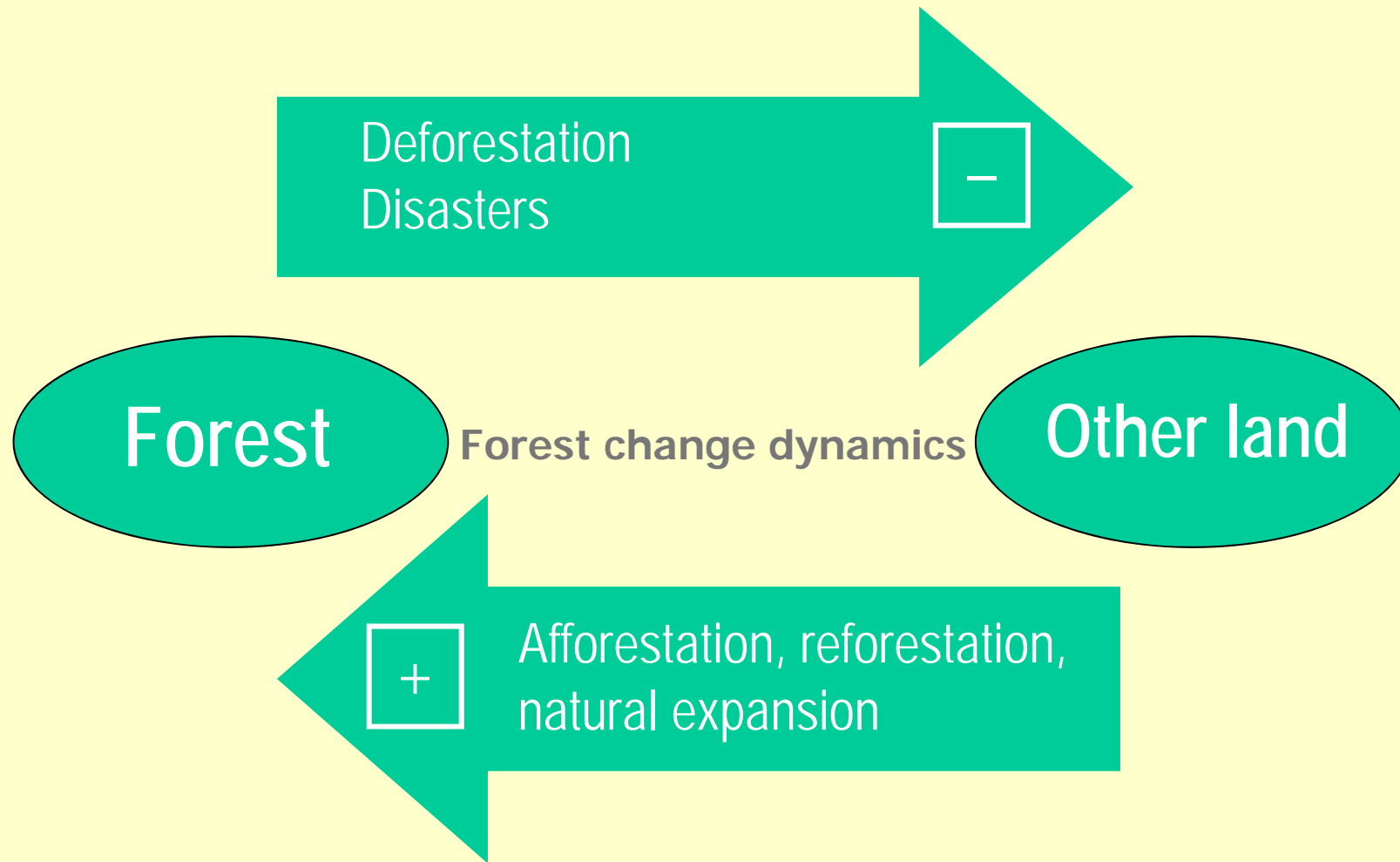
29%

36% Primary forests
57% Other naturally regenerated forests
7% Planted forests
(Source: FAO, 2010)



The forest is
31%
of the land – about 40 million km²
(Source: FAO, 2010)

Net change in forest area



Facts about global forest changes

Deforestation:

1990–2000: 160 000 km²/year

2000–2010: 130 000 km²/year

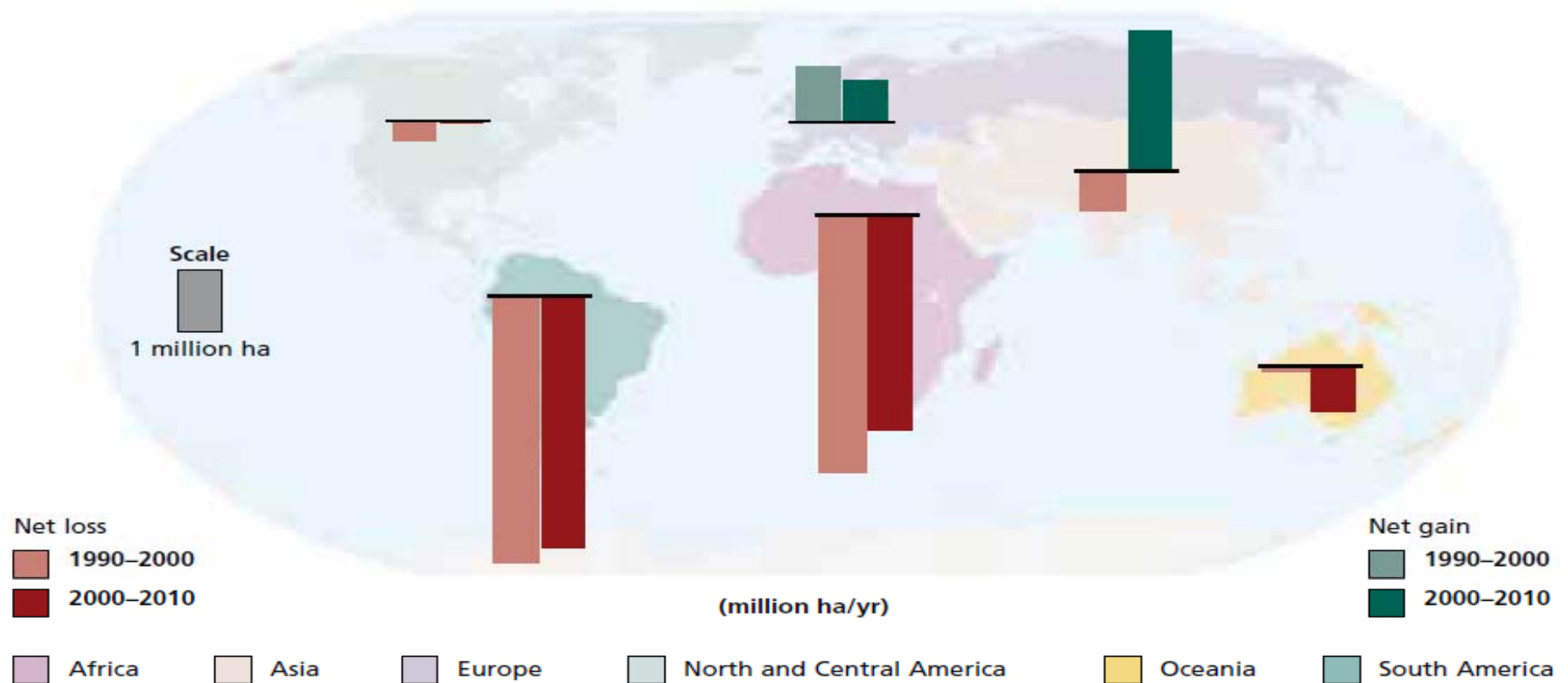
Net change (decreasing) in forest area:

1990–2000: 83 000 km²/year

2000–2010: 52 000 km²/year



Annual change in forest area by region, 1990–2010



The forest area in Europe continued to expand
2000–2010: 7000 km²/year

(Source: UN FAO Forest Resources, 2010)

Global recorded wood removals: approx. 3,4 billion m³

(0,7% of the total growing stock)



Wood removals

Global reported wood removals: 3,4 billion cubic meters per year



**Thank you for your
attention !**