

IMPORTANCE OF INTENSIVELY MANAGED PLANTATIONS FOR WOOD SUPPLY

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Main characteristics of the forest in the world

- Global surface : 3.4 billion ha
26% terrestrial landscape
- Tropical forest : -13 million ha / year
- Global population : +80 million / year
- Expected wood demand : +2% / year
- Forest world trade : 3.4 billion m³ per year
400 billion \$ (2% WGDP)
X 3.5 since 1960
23% of agricultural products exportation



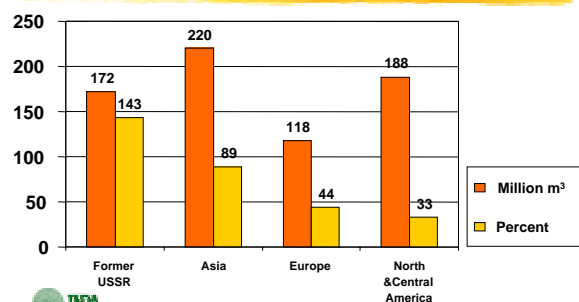
World forest surfaces, wood production and consumption

	Surfaces Million ha (% of the total)	Production (% of the world total)	Consumption (Million of tons)
Africa	398 (11.7)	15.7	52
South America	303 (8.9)	26.3	96
Asia	904 (26.6)	13.6	326
Europe	418 (12.3)	4.1	331
North America	901 (26.5)	15.6	573
Oceania	51 (1.5)	2.6	19
Former-USSR	425 (12.5)	22.1	283
Total	3400 (100.0)	100.0	1680

European Union :
2.8% of the world forest surface
12% of the world prod. of industrial wood



Expected increase of the industrial wood consumption by great region (1993 - 2010) (Source FAO)



Expected industrial wood consumption in 2010 Evolution since 1993 (Source FAO)

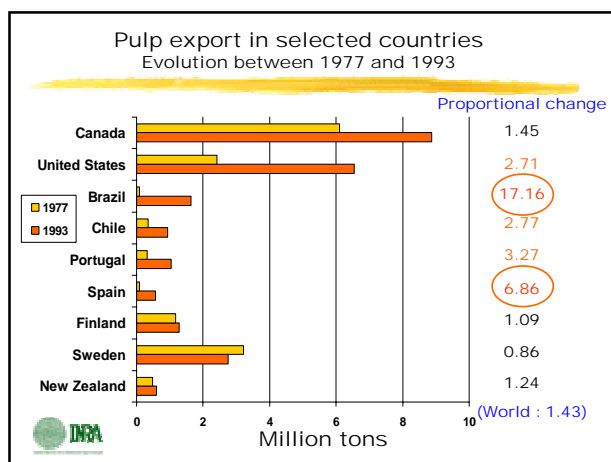
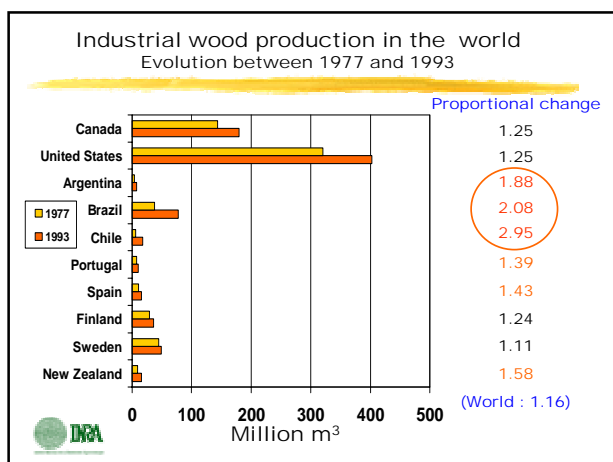
	Million units	1993	2010	Evolution
Total volume	m ³	3500	4700	+ 34 %
Round industrial wood	m ³	1500	2300	+ 53 %
Sawn logs	m ³	430	630	+ 46 %
Fibre boards	m ³	132	256	+ 94 %
Paper	tons	252	480	+ 90 %
Wood pulp	tons	166	225	+ 35 %
Recycled paper pulp	tons	94	250	+ 166 %



Towards a forestry which meets industrial needs

- Rising costs associated with increasing scarcity of accessible old-growth forest.
- Technological improvement that have increased productivity and yields on intensive managed plantation : location, species, genotype.
- Increased social pressure to protect old-growth forests.





Industrial plantations and natural forests

Statistics on countries providing a large proportion of their industrial wood from plantations

Country	Forest area (million ha)		Share of plantation (%)	
	Natural	Plantation	Total area	Total production
Argentina	34	0.78	2.2	60
Brazil	546	7.00	1.2	60
Chile	7	1.45	17.1	95
New Zealand	7	1.20	16.1	93
Zambia	9	0.12	1.3	50

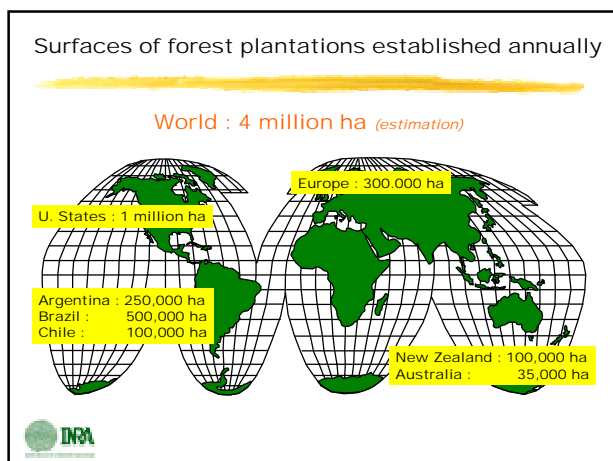
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Industrial plantations and natural forests

- Annual growth rate of usable timber in natural forest ranges about 1 - 3 m³ per ha
- Annual consumption of round industrial wood : 1.5 billion m³

Growth rate (m³/ha/year)	Required surface (billion ha)	% World forest
1	1.5	44
3	0.5	15
5	0.3	9
10	0.15	4

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CONCLUSION

- Rising role of intensively managed plantations
- Intensively managed plantations contribute to stabilise "heavy" industry
- Intensively managed plantations can serve a protective function for native forests
- Specialised distribution of forest areas

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