

Conclusions

Work Package 6.1

Prepared by

Timwood AB

Stockholm, March 2, 2004

In collaboration with:

JAAKKO PÖYRY
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Illustration of how Work Packages with base information and Conclusions and Action programme are linked together.

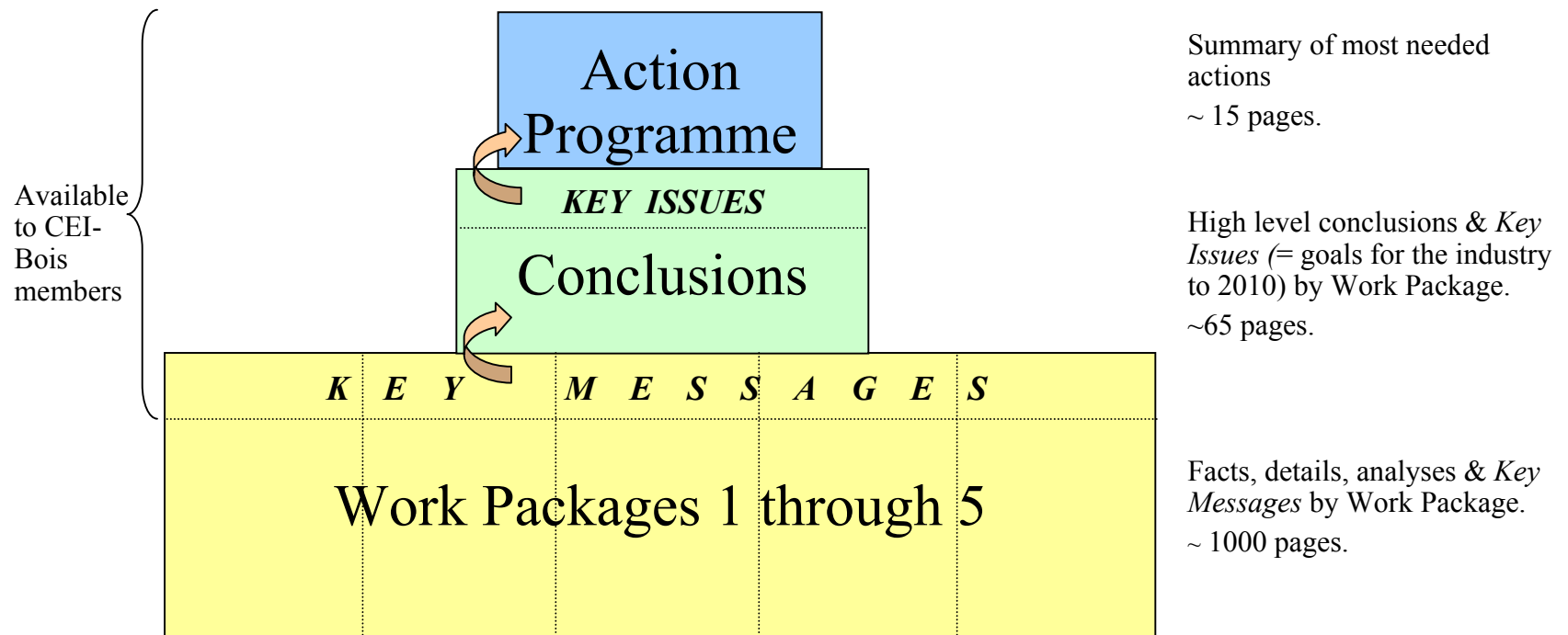


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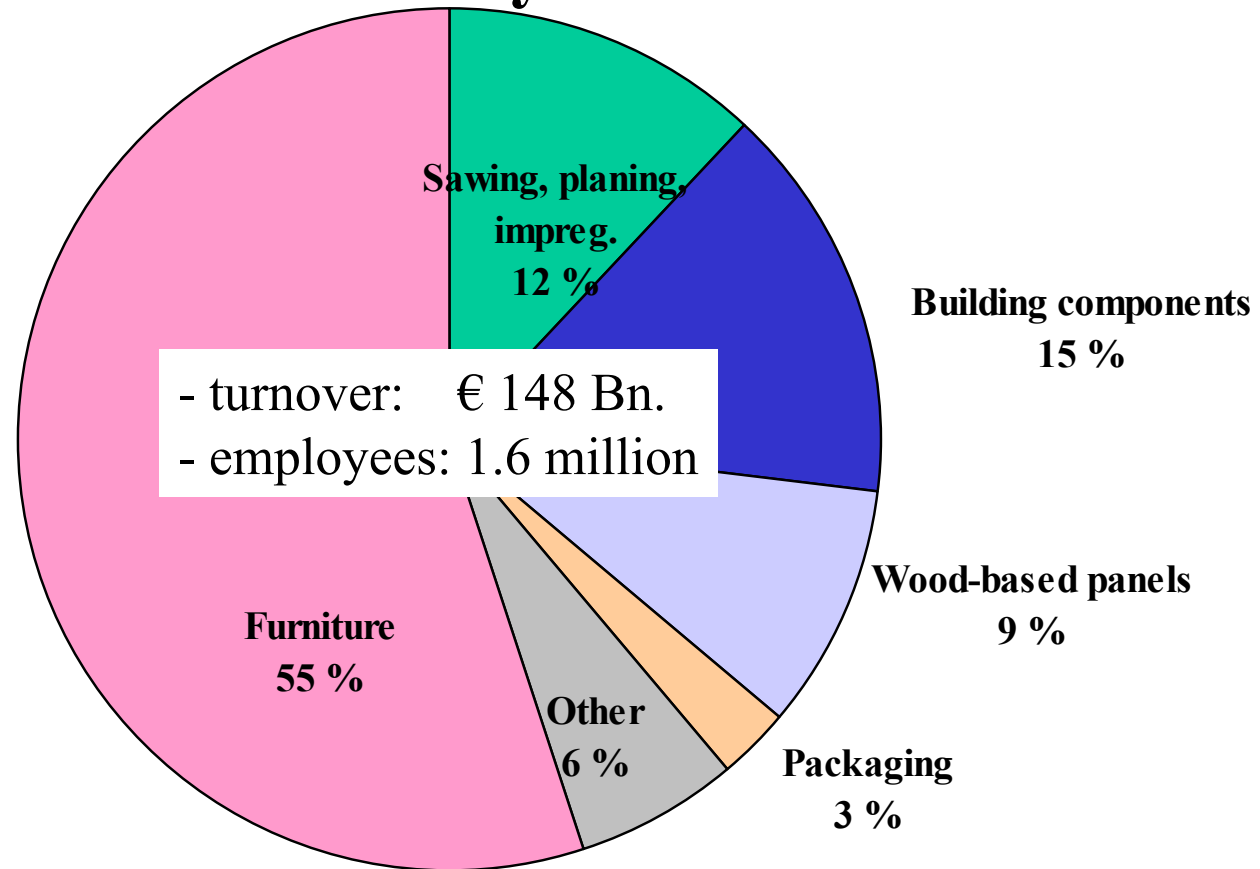
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Woodworking industries in the European Union, 2001

Turnover by sector



Source. EuroStat, analysed and processed by CEI-Bois

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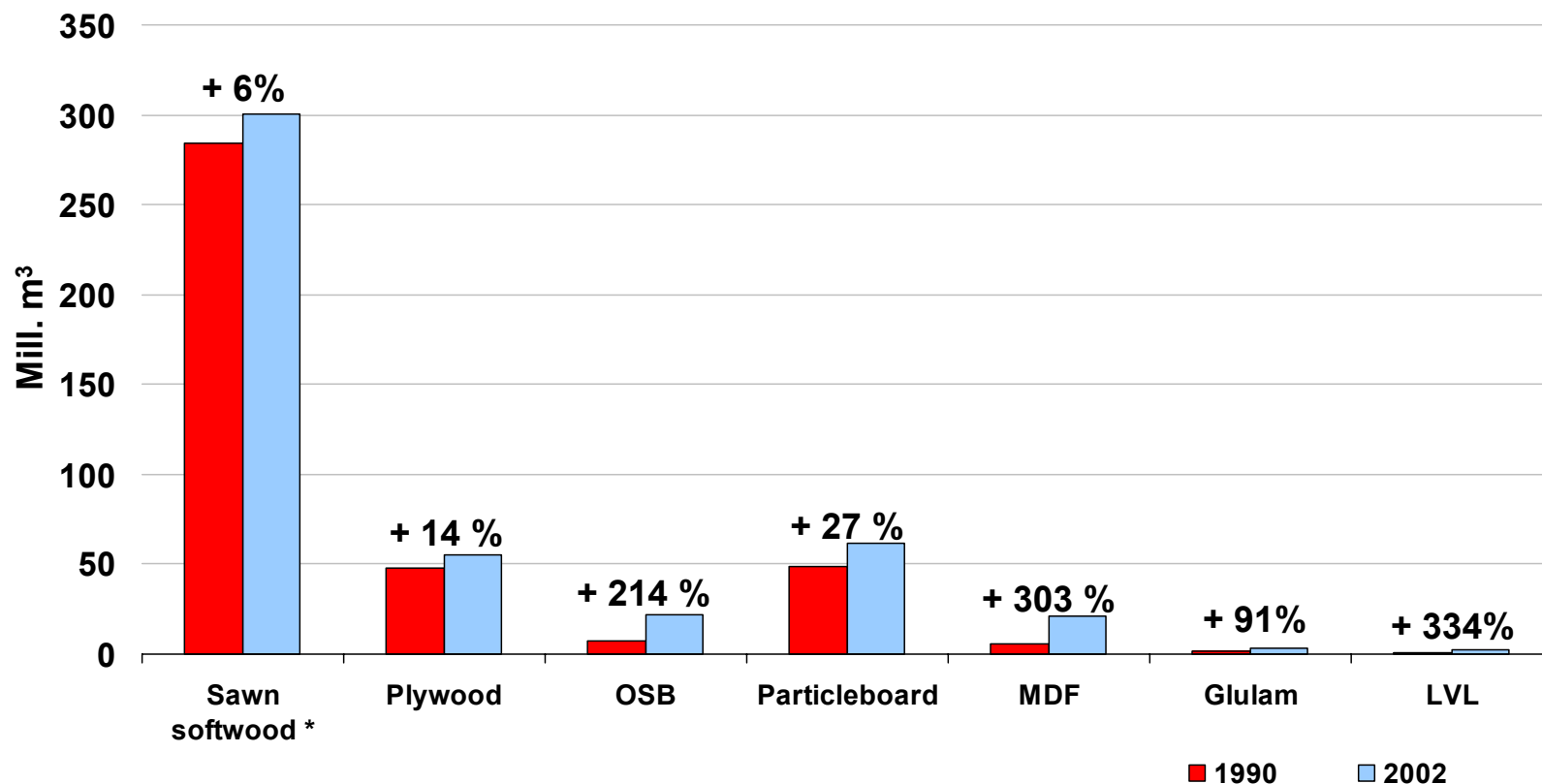
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Strong growth for several smaller product lines, but major decline for sawn softwood, which still holds ~2/3 of the volume.

Changes in global production of wood products 1990 and 2002 in million m³



* Excluding former Soviet Union due to non-reliable data.

Source. FAO, Timber Bulletin, WWPA, COFI, Timwood

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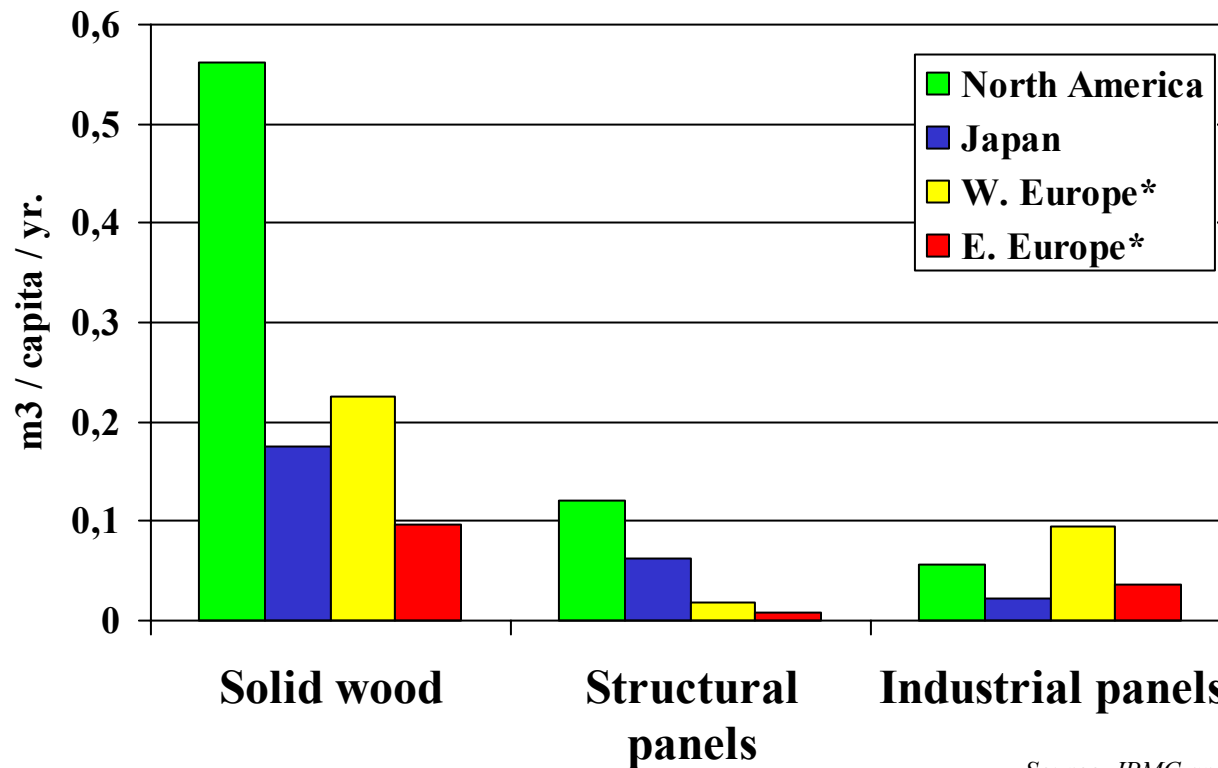
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Wood products per capita consumption: Europe trails leading regions, except for industrial panels

Per capita consumption in selected world regions, 2002



* Definition: W. Europe = EU15 + EFTA. E. Europe = CEEC.

Source. JPMC analysis of various sources.

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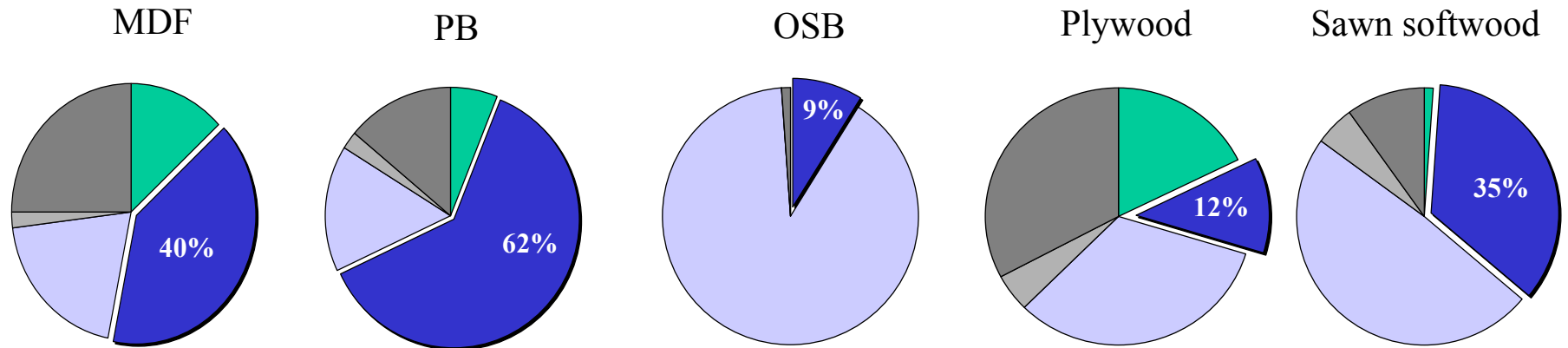
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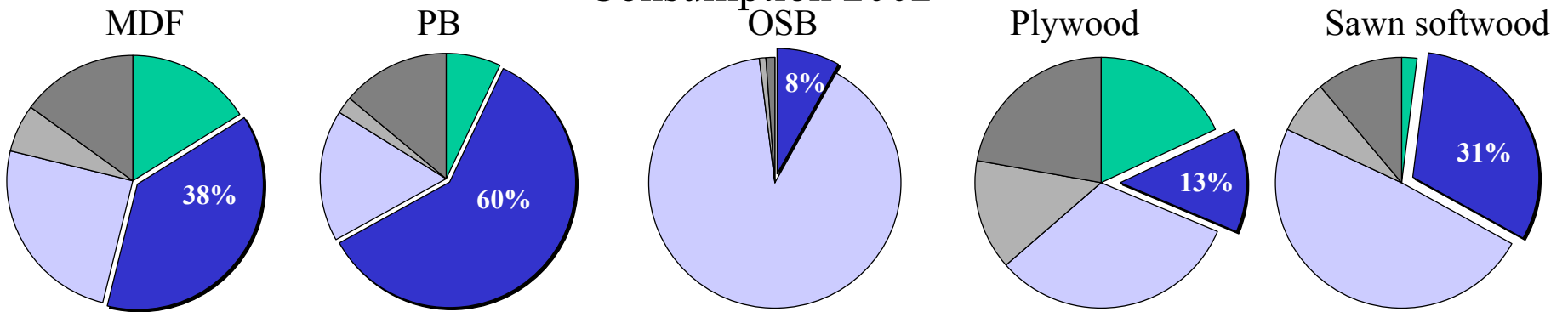
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Europe's share of global production and consumption of wood products during year 2002

Production 2002



Consumption 2002



■ China
 ■ Europe
 ■ North America
 ■ Japan
 ■ Other

Source: Timwood analysis

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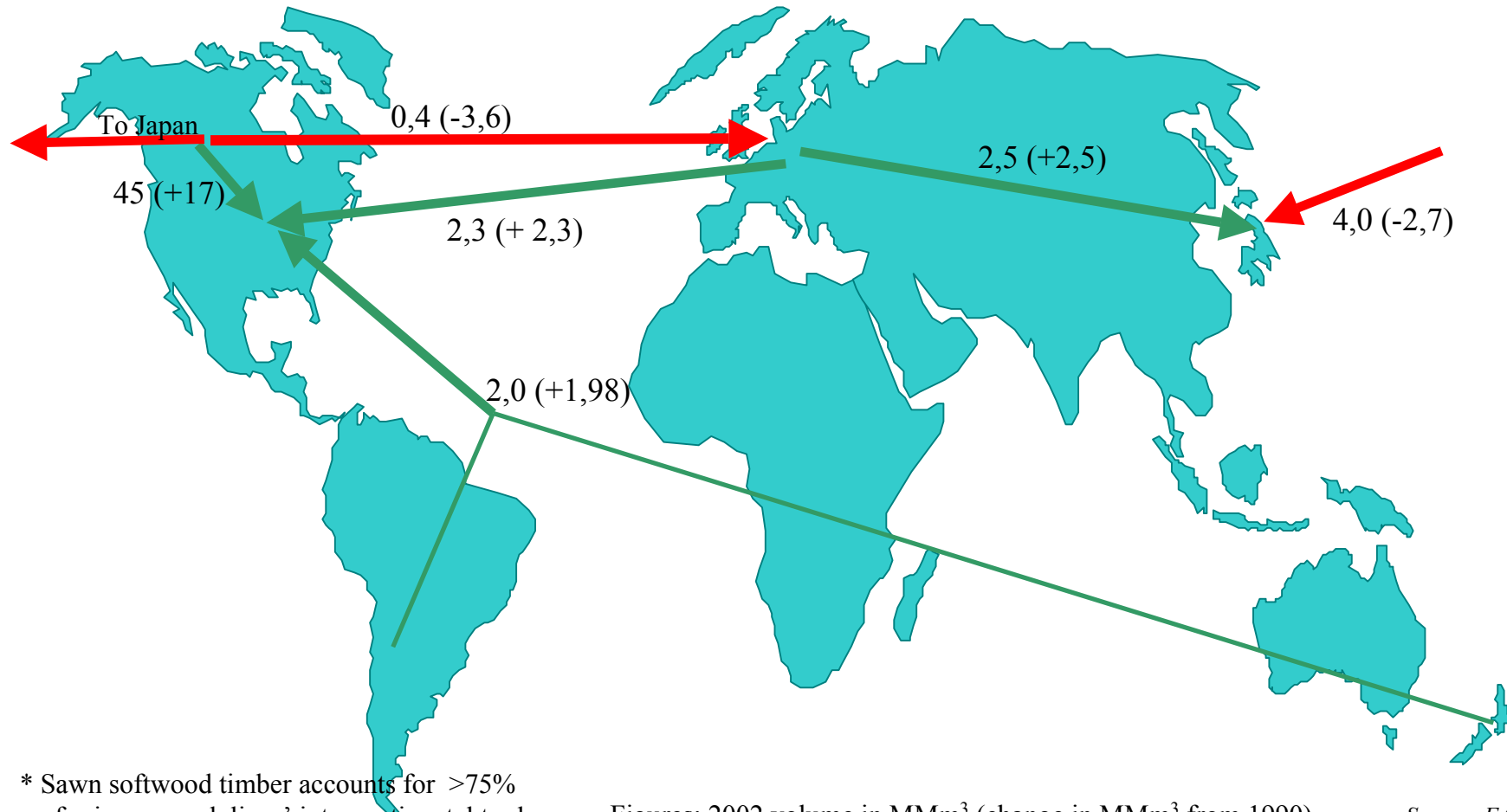


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Major regional changes in global trade of sawn softwood timber*, 1990 to 2002 in million m³



* Sawn softwood timber accounts for >75% of primary prod. lines' intercontinental trade.

Figures: 2002 volume in MMm³ (change in MMm³ from 1990)

Source: FAO

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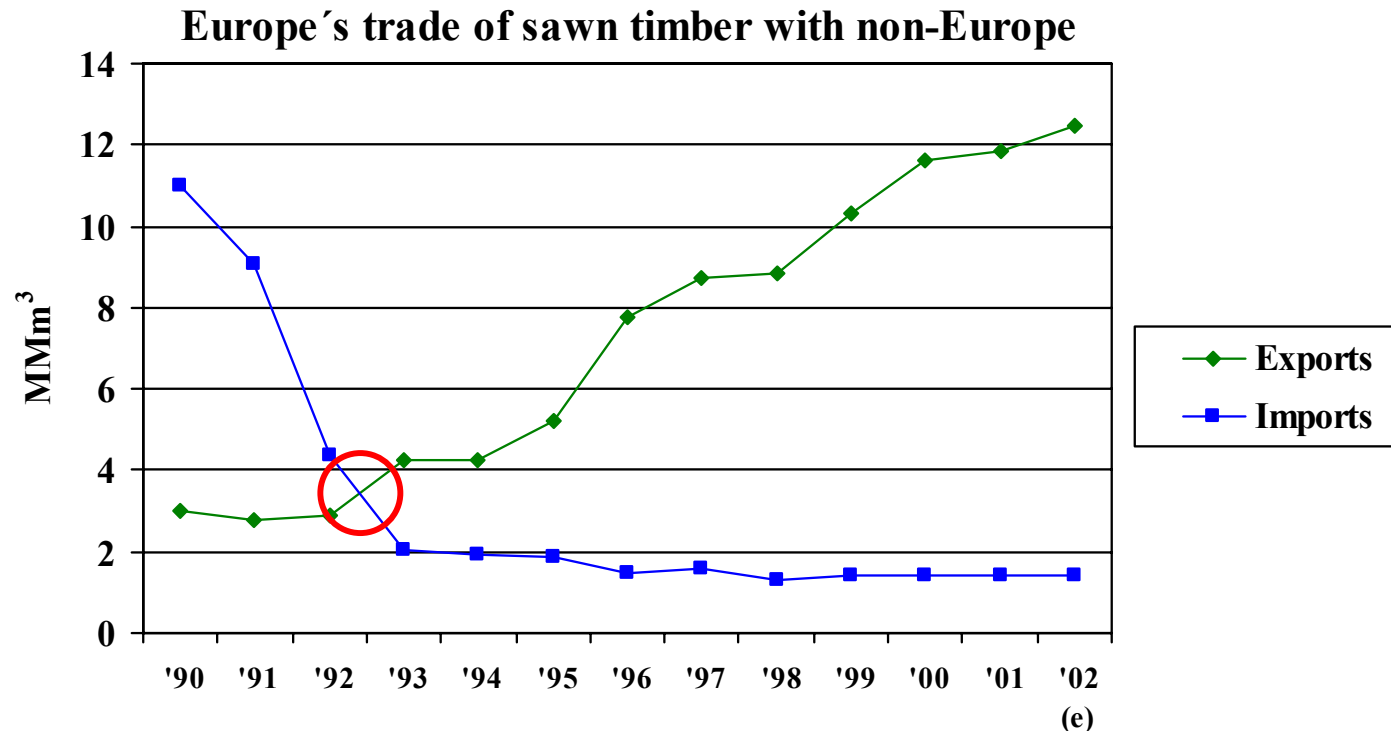


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Europe has moved from a net importer to net exporter of sawn timber



- A significantly stronger € to the USD would seriously jeopardise the sawmilling industry's decade-old export spree.
 - Less outspoken for other wood products from an export perspective – but could spur imports.
- A potentially lesser export further underlines the importance of creating an increase in European demand, especially in regions with currently low per capita consumption.

Source: UN Statistics division

Key messages – Europe’s interregional trade

- Strong build-up of Europe’s non-European market positions in the late 90’s largely fuelled by weak currency.
- Going forward, concern for currency exchange rates, primarily EUR to USD & CAD.
 - Future competitiveness for established market positions in Japan/Asia and the US. for primary wood products at risk.
 - European markets may increasingly be satisfied through imports.
 - Potential loss of finished goods exports.

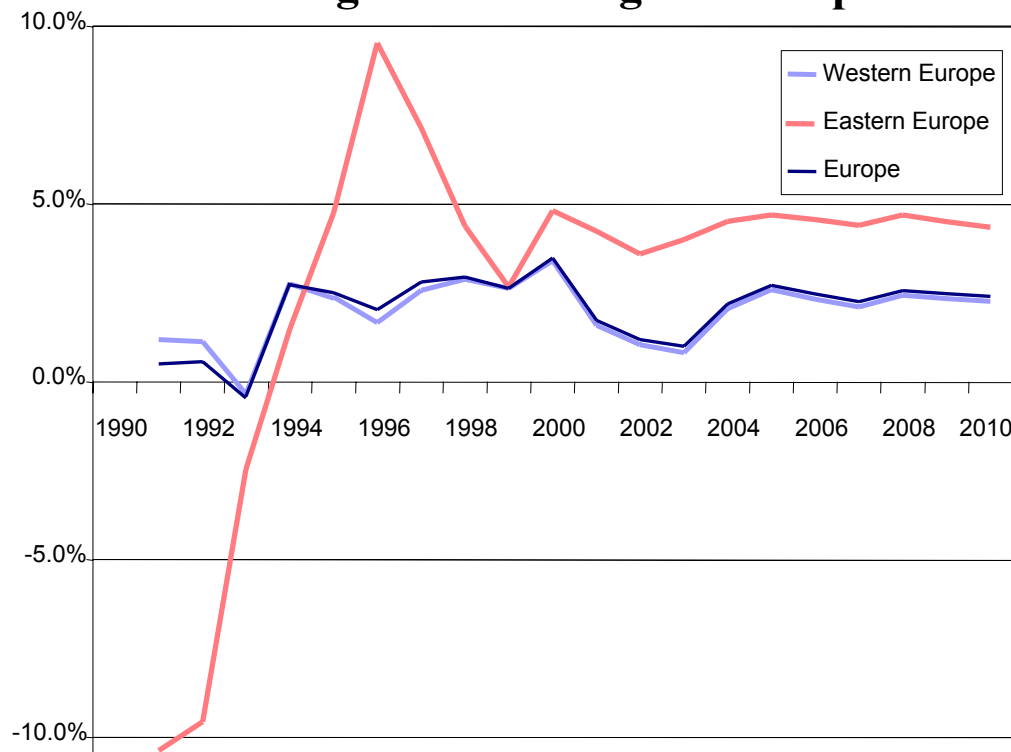
Primary product lines’ non-European export dependency:

Export dependency, 2002	LVL	Structural Glulam	Sawn SW	Plywood	OSB	MDF	PB
Share non-European export of total production	32 %	21 %	13 %	16 %	8 %	5 %	3 %
- equivalent to million m3	0,04	0,4	12	0,6	0,2	0,5	1

- Mitigating factors that both fend off imports and support exports; Quality, Service, Product development.

Drivers (I): GDP in E. Europe will grow 2x W. Europe

Average GDP Change in Europe



CAGR	90-95	95-00	00-02	02-05	05-10
WE	1,4%	2,6%	1,3%	1,8%	2,3%
EE	-3,4%	5,7%	3,9%	4,4%	4,5%
Europe	1,2%	2,8%	1,5%	2,0%	2,4%

Source: World Bank, IMF, Consensus Economics Inc., OECD Economic Outlook and National Economic Institutions – Analysed and processed by JPMC

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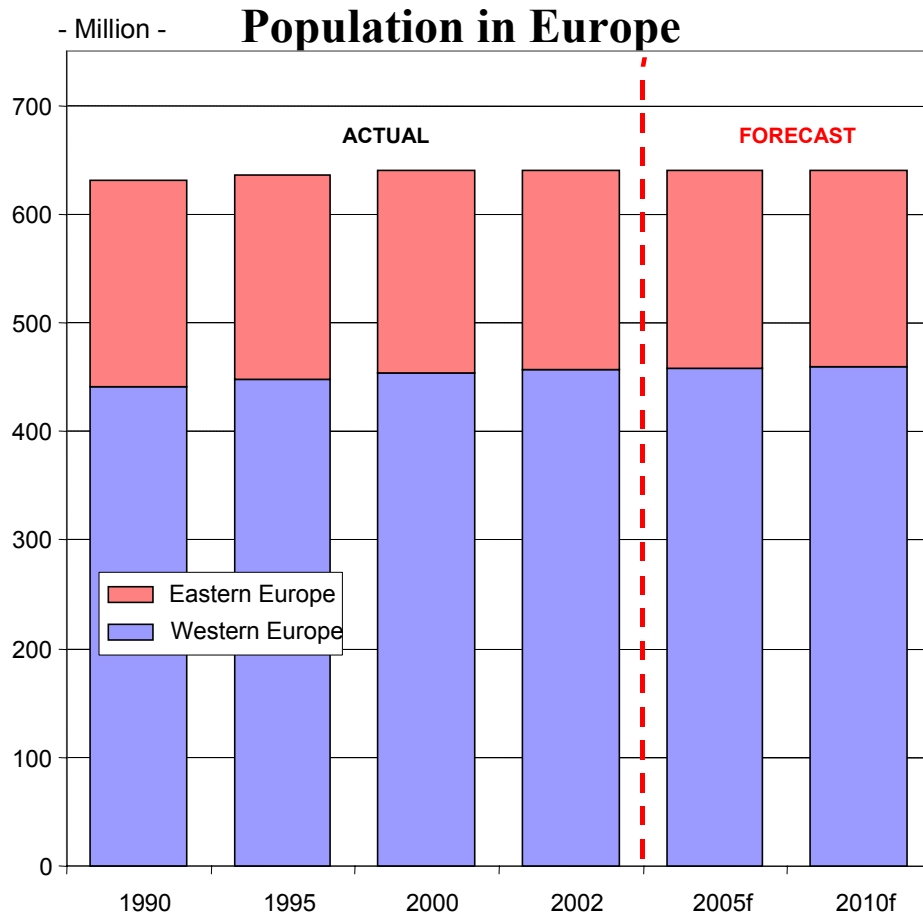


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Drivers (II): Flat population development



CAGR	90-95	95-00	00-02	02-05	05-10
WE	0,4%	0,3%	0,3%	0,2%	0,1%
EE	-0,2%	-0,3%	-0,4%	-0,3%	-0,3%
Europe	0,2%	0,1%	0%	0%	0%

- Age group 65+ years increases its share of total population.

Source United Nations Population Division, Jaakko Pöyry Consulting analysis.

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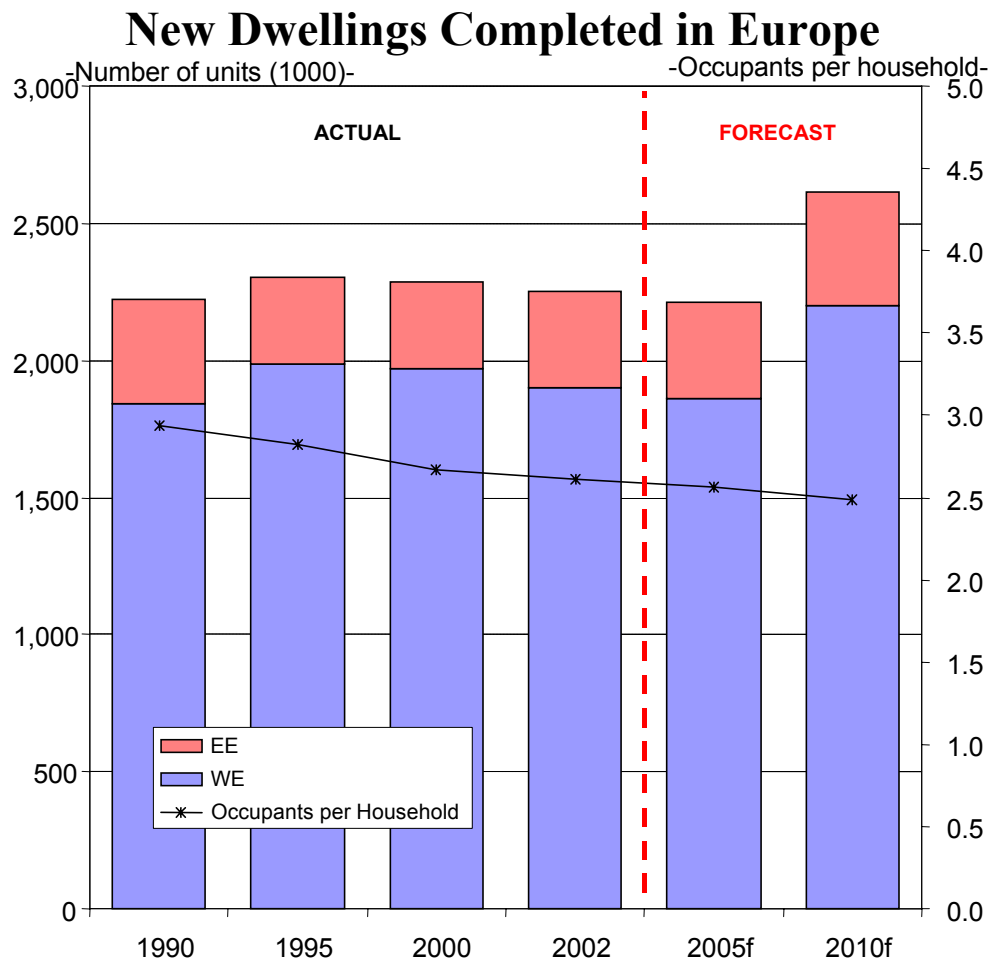


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Drivers (III): Short term flat housing starts



CAGR	90-95	95-00	00-02	02-05	05-10
WE	1,5%	-0,2%	-1,7%	-0,8%	3,4%
EE	-3,7%	-0,1%	4,9%	0,4%	3,2%
Europe	0,7%	-0,2%	-0,8%	-0,6%	3,4%

- 2005-2010: Both West and East will experience growth.

Source: Euroconstruct, National offices, Euromonitor

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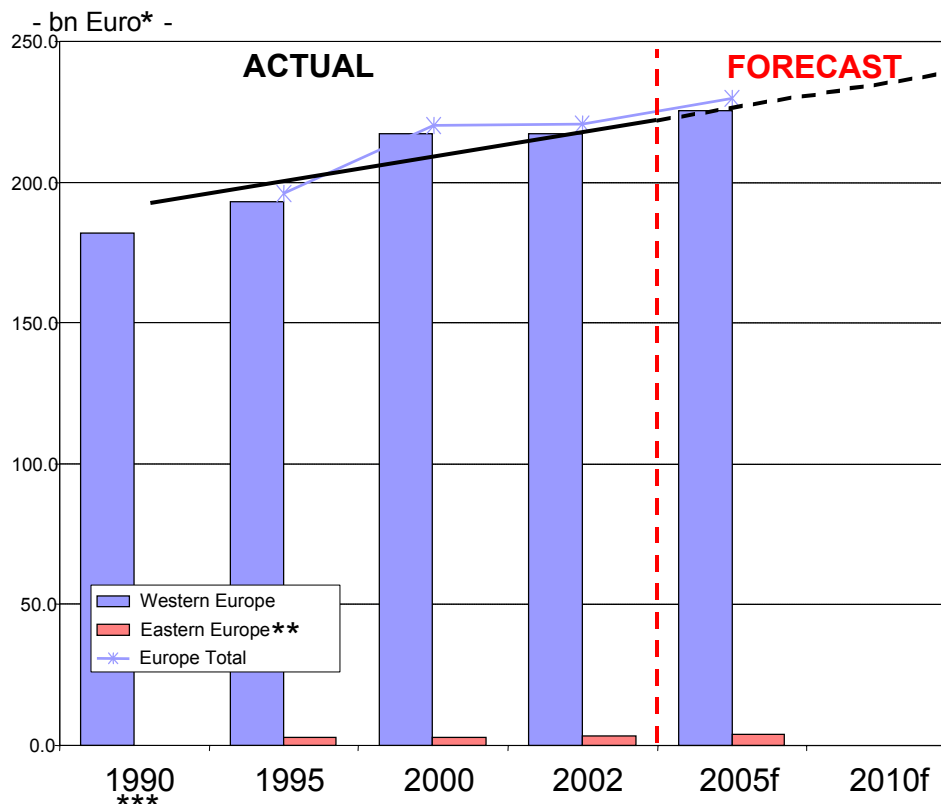
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Drivers (IV): Steady growth in RMI, West dominates.

Renovation and Maintenance in Europe - Residential



CAGR	90-95	95-00	00-02	02-05	Trend
WE	1,2%	2,4%	0,1%	1,2%	1,5%
EE		1,9%	3,3%	6,2%	3,7%
Europe		2,4%	0,1%	1,3%	1,2%

* Values in Billion Euro at 2001 Prices

**Eastern Europe includes Czech Republic, Slovakia, Hungary and Poland

***Data for Poland and Czech missing

Source: Euroconstruct

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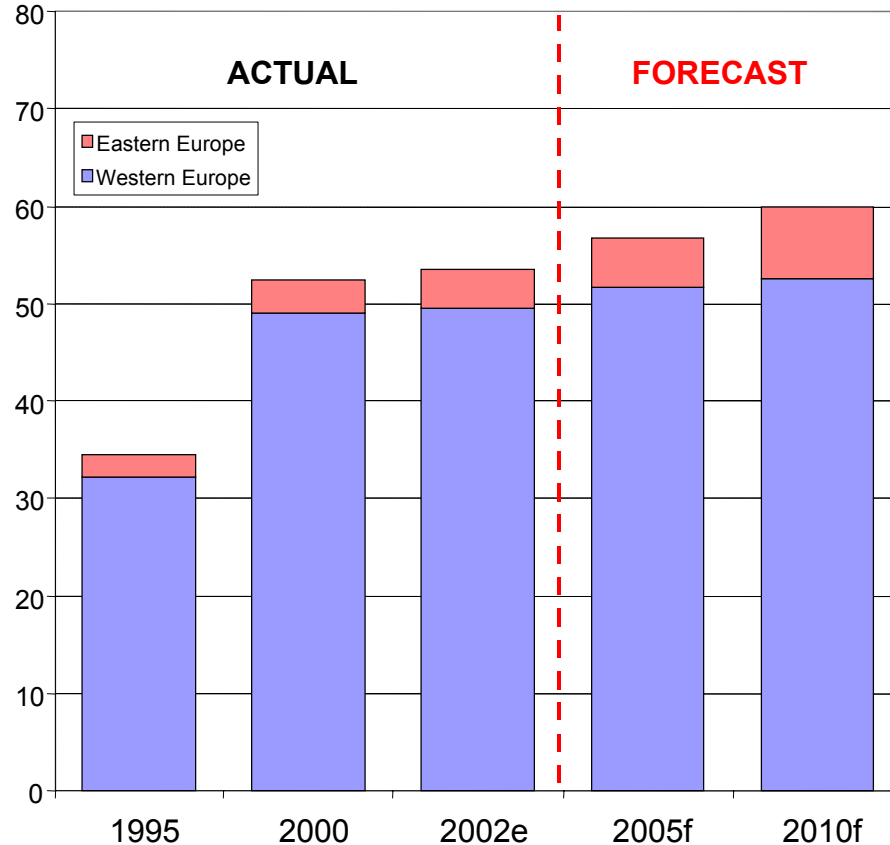
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Drivers (V): Furniture production flat in West, growth in East.

Production of Wooden Furniture in Europe

- Billion ECU / EUR -



CAGR	95-00	00-02	02-05	05-10
WE	8,8%	0,5%	1,4%	0,4%
EE	7,6%	7,9%	9,7%	7,6%
Europe	8,7%	1,0%	2,0%	1,1%

Source: National Statistical Offices, CSIL, JPMC – Analysed and processed by JPMC

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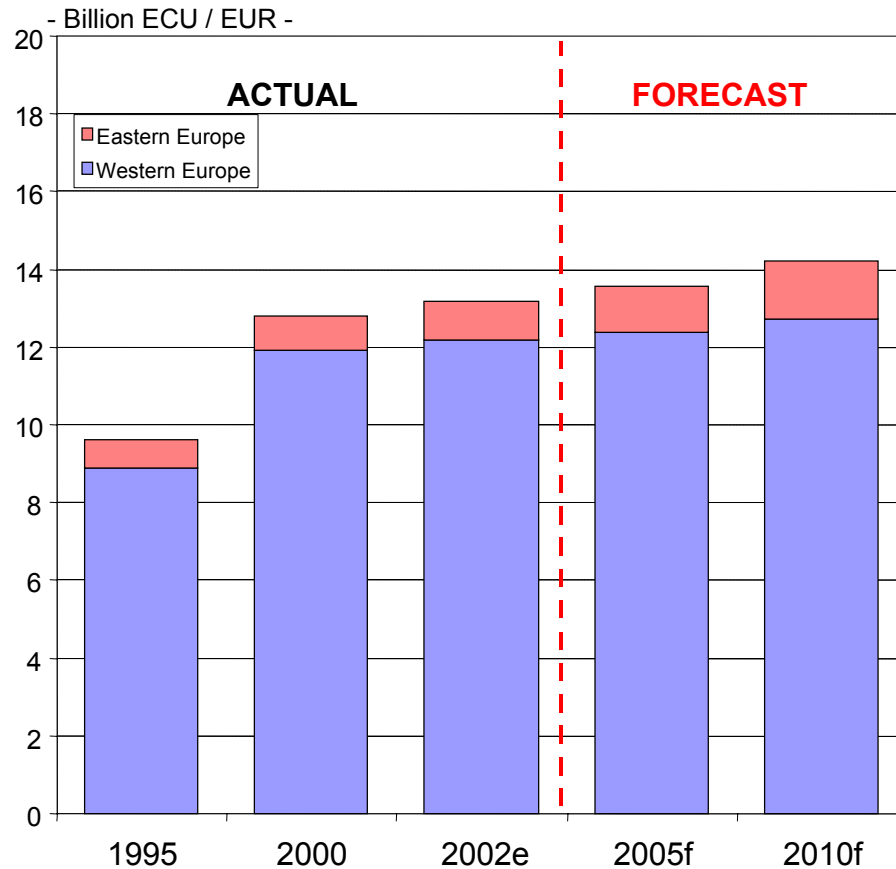
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Drivers (VI): Flat Joinery production in West, East growing.

Production of Wooden Joinery in Europe



CAGR	95-00	00-02	02-05	05-10
W-E	6.0%	1.1%	0.5%	0.6%
E-E	3.7%	6.9%	5.7%	4.5%
Total	5.9%	1.5%	1.0%	0.9%

Source: various stats analysed and processed by JPMC

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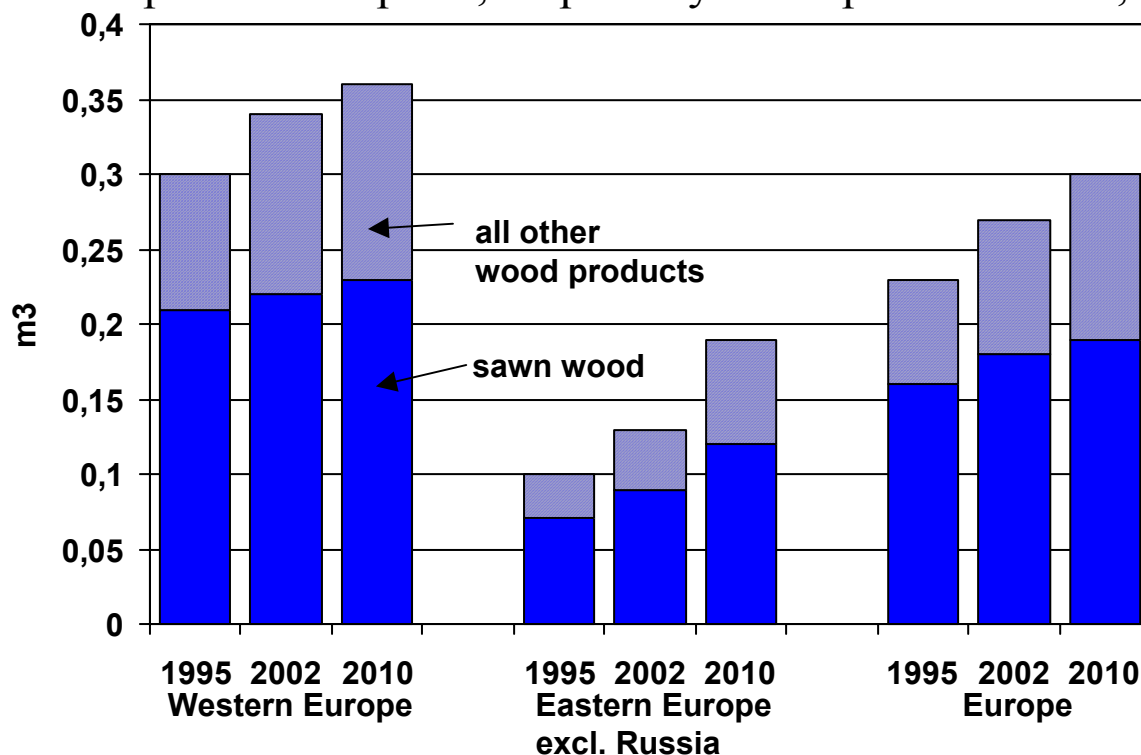
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Demand forecast – *Base Case*: Per capita consumption increases by a meagre 0.03 m³ from 2002 to 2010

Per capita consumption, all primary wood products 1995, 2002 and 2010



Total growth 2002 vs. 2010, million m ³		
Region	Sawn wood	All wood prod.
W. Europe	2,3	10
E. Europe	4,2	10
Europe	6,5	20

Sources: Jaakko Pöyry Consulting,
World Bank, FAO.
Timwood analysis.

- W. Europe's per capita consumption is 2.5x bigger than E. Europe's in 2002.
- E. Europe's per capita consumption expected to grow 7x faster than that in the West (CAGR 4.6% vs. 0.7%).

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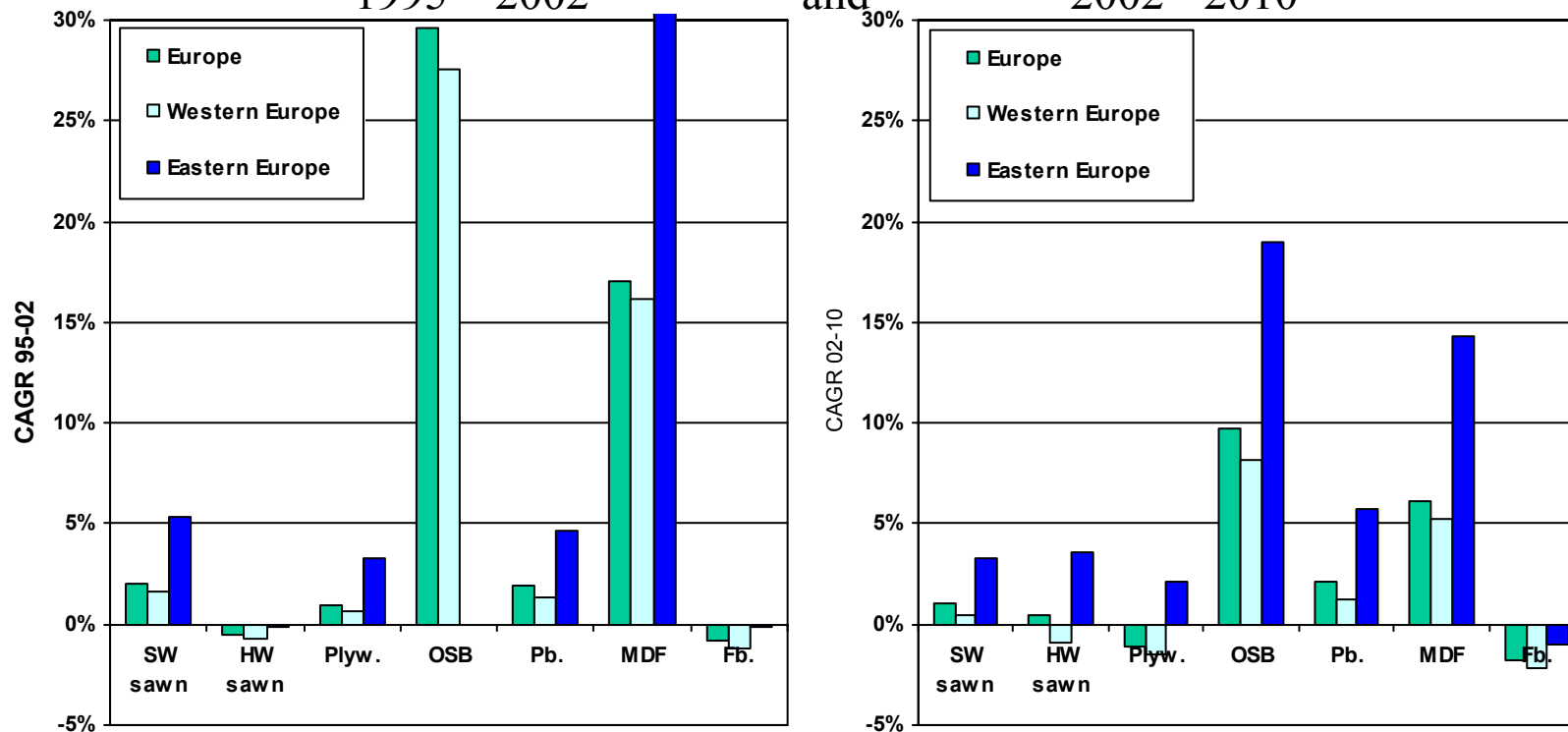
Demand forecast for primary product lines – *Base Case*: Reduced growth for most product lines to 2010

Growth rates by primary product line in Europe

1995 – 2002

and

2002 - 2010



Sawn softwood – the largest wood product type – will have a growth of 1% in Europe as a whole.

Growth to 2010 in E. Europe outpaces W. Europe in almost all product lines. However, 1% growth in W. Europe adds 1.3 MMm³ (all product lines) but only 0.25 MMm³ in E. Europe.

Source: Jaakko Pöyry Consulting.

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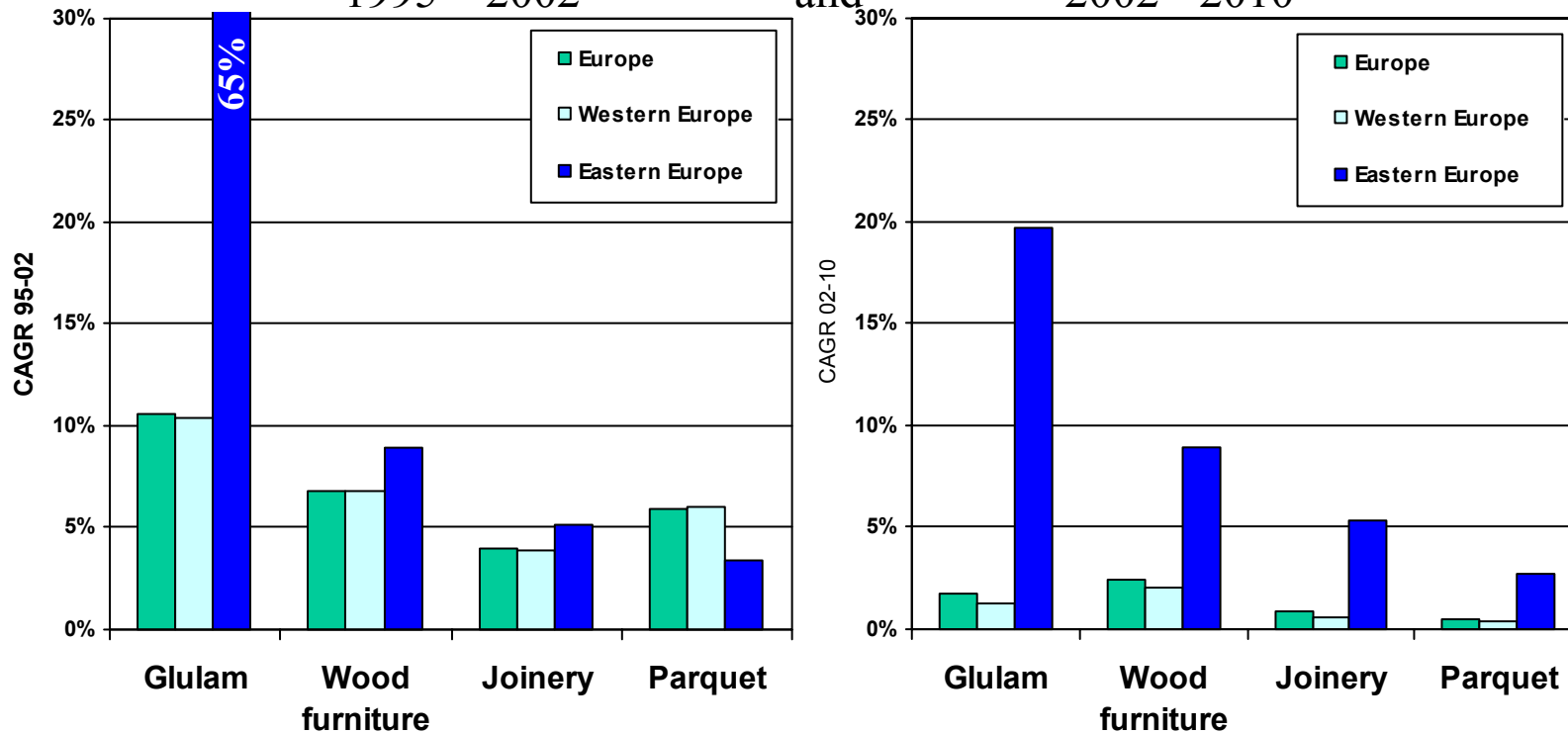
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Demand forecast for secondary product lines – *Base Case*: Reduced growth to 2010

Growth rates by secondary product line in Europe
1995 – 2002 and 2002 - 2010



Source: Jaakko Pöyry Consulting

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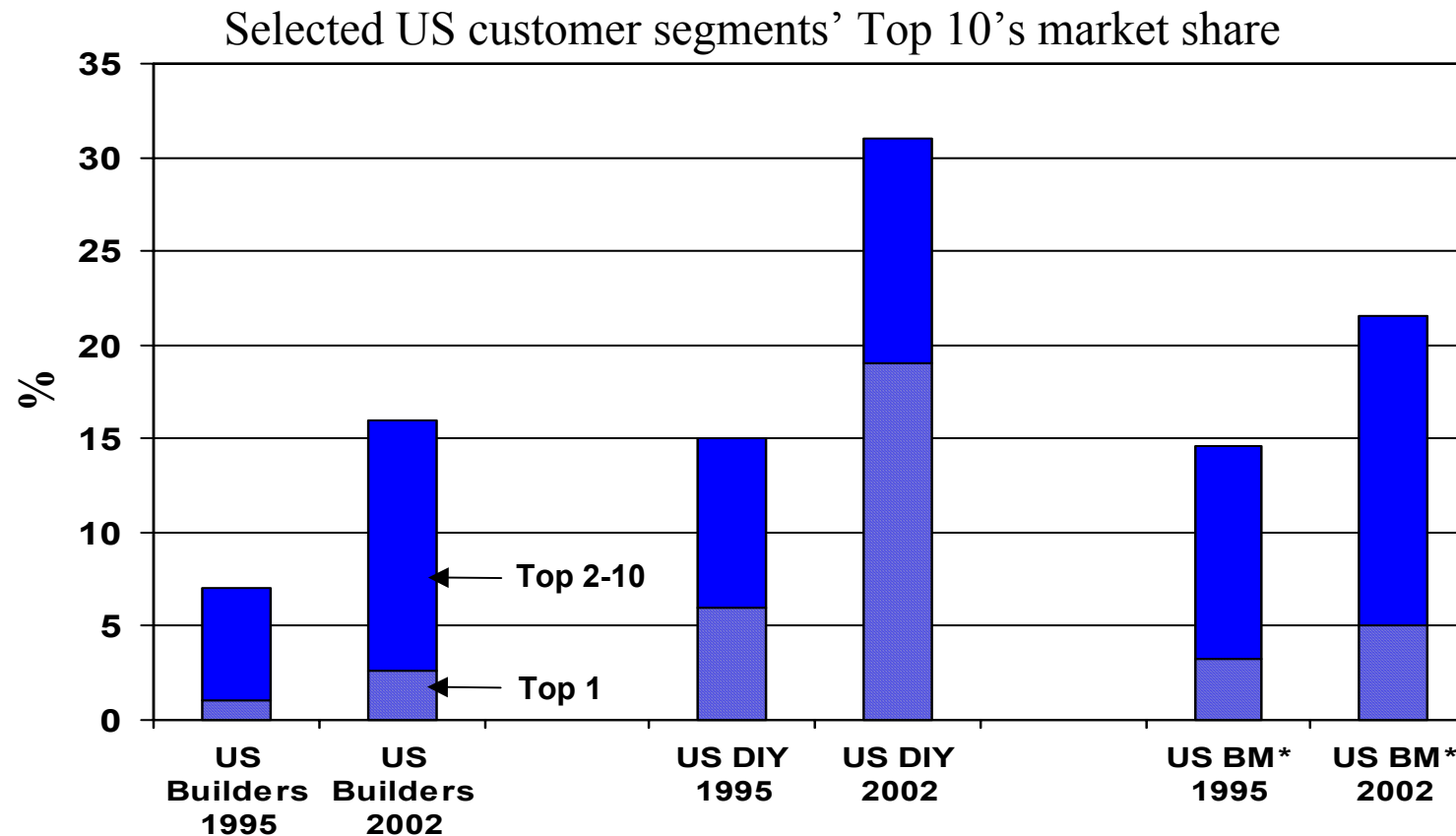


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Customers to the wood products industry are getting bigger



* Builders' Merchants

Sources: Timwood, Builders Magazine, Home Channel News, US Census.

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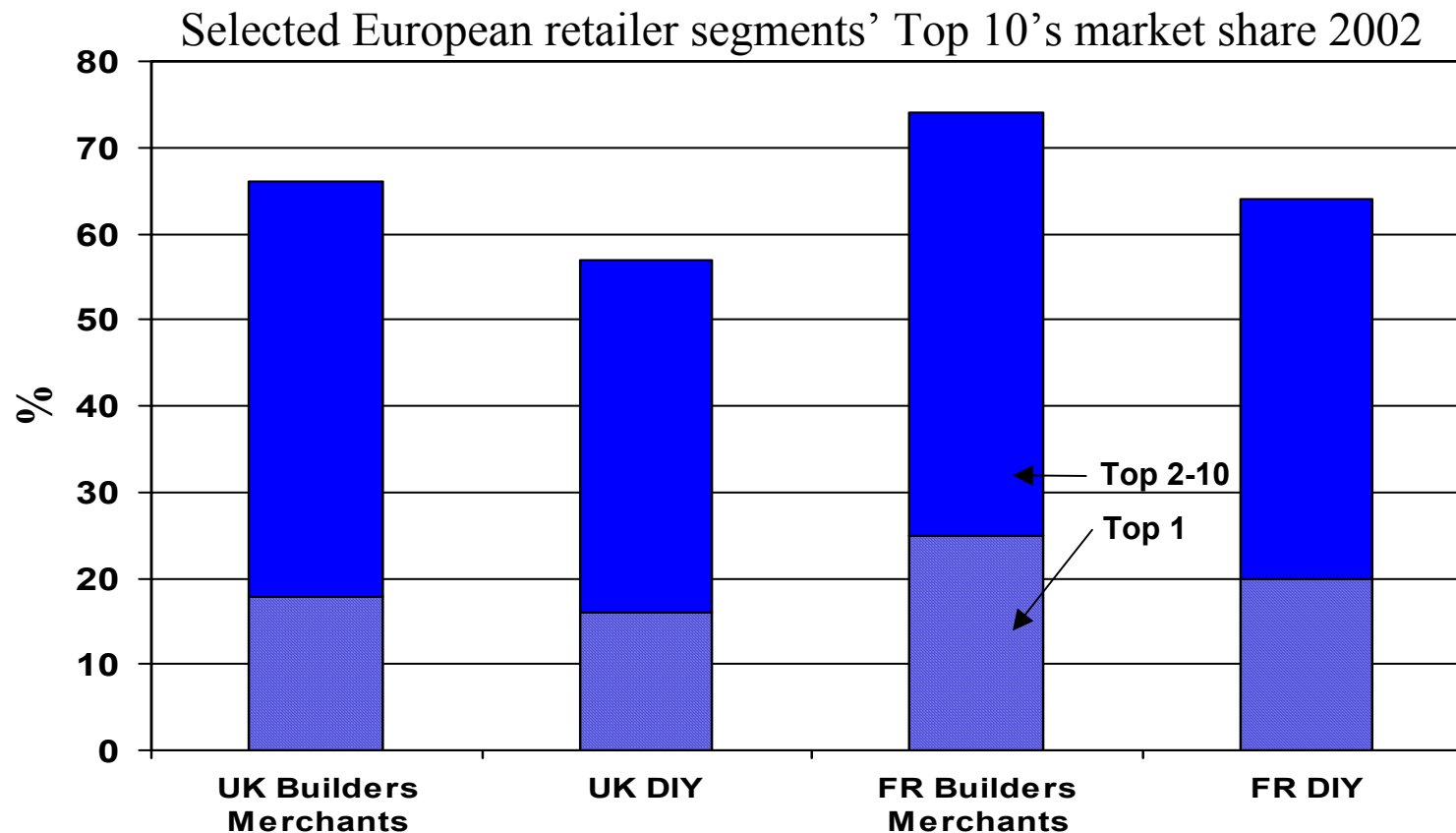


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Europe: Important distributors of wood products typically command a sizeable market share



Sources: Timwood, Unibal, Builders Merchants Journal, Fédération Française du Négoce des Matériaux de Construction.

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Market development – Drivers of Wood Consumption, Europe (excl. Russia)

- Outlook for demand drivers to 2010 does not support an overall significant increase in wood products consumption in W. Europe.
 - A substantial increase of wood consumption has to be actively created through increased market share from non-wood materials & new end-uses.
- Growth to 2010 in E. Europe outpaces W. Europe in almost all product lines.
 - BUT, 1% growth in W. Europe adds 1.3 MMm³ (all product lines) but only 0.25 MMm³ in E. Europe.

Market development – Wood Products, Europe (excl. Russia)

- *Key Issues* facing the industry to 2010:
 - Increase the per capita consumption of wood products aggressively in a profitable – and as now – sustainable and environmentally responsible way.
 - Improve industry competitiveness and value creation.
 - Expand sales to and/or develop new markets outside Europe.

Market development – Drivers of Wood Consumption, World (excl. Europe)

- North America:
 - Healthy drivers to 2010, i.e. population growth, strong housing & RMI market.
 - Outsourcing of production to low cost regions (e.g. SE Asia).
 - Available domestic wood supply may not keep up with domestic demand growth.
- Japan:
 - Poor outlook:
 - Declining population, continued reduction in housing starts – although increasing RMI activity partly will mitigate.
 - Proximity to low cost countries spur outsourcing.
- China:
 - Clearly increasing demand for wood products:
 - Most will be domestically produced from domestic and imported fibre.
 - Sawn timber production growth mainly from imported fibre.
 - Provides an export opportunity for Living With Wood products, less so for Building With Wood products which currently has “no” market – needs to be developed.

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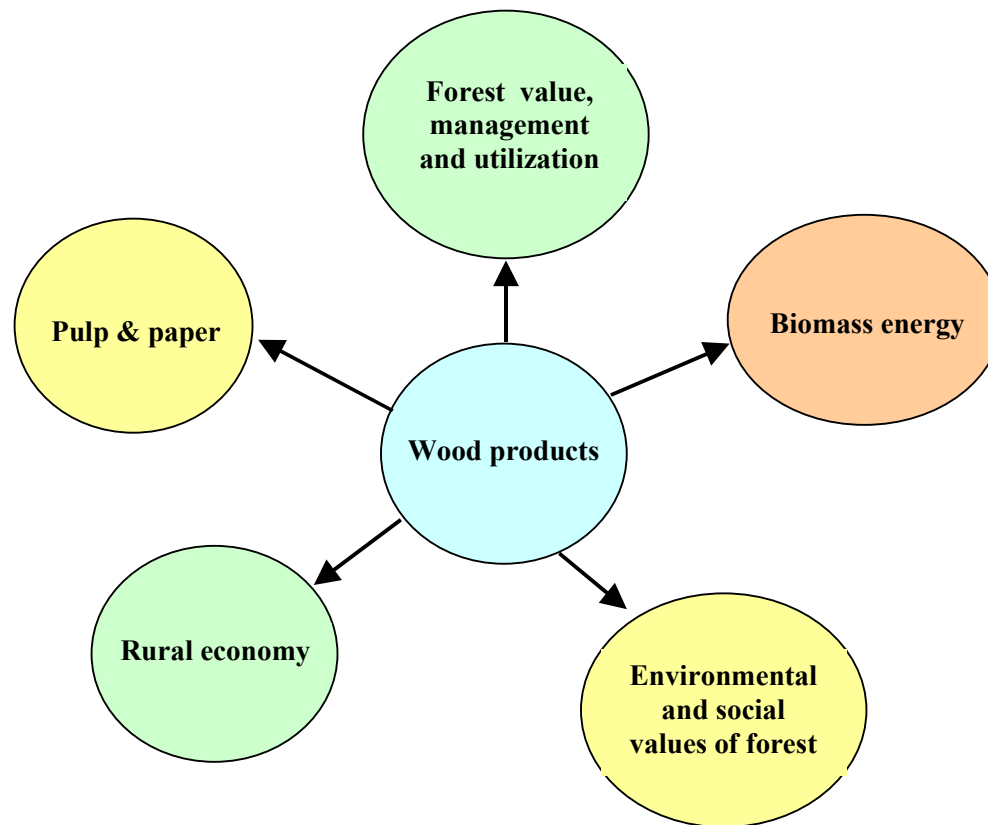
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Wood supply – Europe (excl. Russia)

- Forests produce more than what's needed under current scenario:
 - Cheaper wood raw material sources will be utilised first.
 - Expensive wood raw material sources may not be fully utilised.
 - Global log trade will grow, further increasing down-ward pressure on expensive wood sources → long term harmonisation of wood prices.
 - Improved manufacturing technology & market acceptance for new products reduce the demand / preparedness to pay a premium for “high quality” wood raw materials from certain regions in Europe.
- Key wood raw material utilisation conflicts:
 - Energy vs. wood products (e.g. particleboard) manufacturing.
 - Recreation / Conservation vs. wood raw material production.
 - Recycled wood vs. wood from harvest or residues from sawmilling.

Wood supply – Europe (excl. Russia)



- Solid wood fibre (saw & veneer logs) typically generates the highest return for the forest owner.
- What happens if the demand for solid wood fibre declines / stop growing, or if reduced capacity to pay* by the wood products industry due to poor profitability?
 - Higher pulpwood prices?
 - Negative impact on rural economies?
 - Lower forest value?
 - Reduced interest in reforestation?

* Estimation: if same average price for softwood saw logs as for pulpwood, then the European forest owners would lose ~€4 Bn./yr. in revenue.

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Wood supply – Europe (excl. Russia)

- *Key Issues* facing the industry to 2010:
 - Increase the per capita consumption of wood products aggressively in a profitable – and as now – sustainable and environmentally responsible way.
 - Improve industry competitiveness and value creation.
 - Expand sales to and/or develop new markets outside Europe.

Wood supply – World (excl. Europe)

- Major increase potential in regions such as South America, Oceania and Russia, while growing shortage in South and Far East Asia (e.g. China).
 - Will encourage:
 - Inter-regional log trade.
 - Globalisation of corporations.
 - Certain grades, e.g. pruned pine plantation wood (fast grown), will face difficulties in finding markets with sufficiently high capacity to pay.
 - Growth typically come from (fast grown) plantation type wood (except in Russia).

Wood supply – World (excl. Europe)

- *Key Issues* facing the industry to 2010:
 - Prepare to meet the future demand for raw material of wood-working industry from sustainable managed forests in a profitable way.
 - Balance the usage of wood raw material between various interests in the society.
 - Maintain and improve the competitiveness of the European wood raw material resources (especially in high cost regions) vs. non-European, cheaper wood sources.

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Barriers to Enhanced use of Wood in Europe

- At present there are overall no direct regulatory barriers to the enhanced use of wood and wood-based products throughout Europe.
- In practice functional (i.e. material independent) requirements cause limitations to wood and wood-based products being used.
 - Regulatory authorities may not fully be aware of the influences their regulations have on the use of different materials.
- Responses show that there are not only national but also regional differences in building regulations, which act as a barrier to joint actions across Europe. This weakens the competitiveness of wood products.

Barriers to Enhanced use of Wood in Europe

- Fire and sound insulation are believed to be the main regulatory limitations to the use of wood in residential buildings, particularly in multi-occupancy dwellings.
- Generally there is not enough guidance on wood structures. Professionals rely on available explanatory documents, which do not always give a full understanding of the underlying general requirement.
- In certain countries, regions and applications wood products are not traditional materials for use and that can affect the perception of their suitability.

Barriers to Enhanced use of Wood in Europe

- At present wood from sustainable managed sources is not required in the majority of European countries.
 - Respondents: Did not think that this will become a requirement in the near future.
 - Emerging trend: public procurement policies asking for wood from legal and sustainable sources.
- Europe is getting familiar with Eurocodes, but their use in every day design is still limited.
- There are no regulatory barriers to the use of novel wood products, such as LVL, Glulam, I-joists, etc.
 - Costly and time consuming certification procedures for technical performance due to general lack of codes and standards are seen as barriers.

Barriers to Enhanced use of Wood in Europe

- Non-regulatory barriers – according to the survey:
 - **Institutional**: Education, training and skills, safety, networking within and between the woodworking and construction industries, voluntary industrial standards, planning, life cycle assessment issues and sustainability issues.
 - **Technical**: durability, shortage of professionals and their knowledge, technical back-up, approvals, lack of interaction with other materials, construction process and availability.
 - **Economic**: costing and pricing, risk, investment by all sectors, insurance policies, lack of common methodology (e.g. in manufacturing), taxes, and supply chain.
- Other:
 - **Cultural**: Perception of wood as a suitable material for construction.

Barriers to Enhanced use of Wood in Europe

- *Key Issues* facing the industry to 2010:
 - At present there are no regulatory barriers to the enhanced use of wood- **BUT**- there are many regulatory limitations and other influencing barriers. How can these be overcome?
 - Take actions (prioritised) on a national and European level
 - Select relevant parties to be involved in this process.
 - Generate and disseminate technical proof and supporting information to the specifiers and end-users.
 - Raise the wood sector spending on R&D towards the EU target of 3% of GDP.

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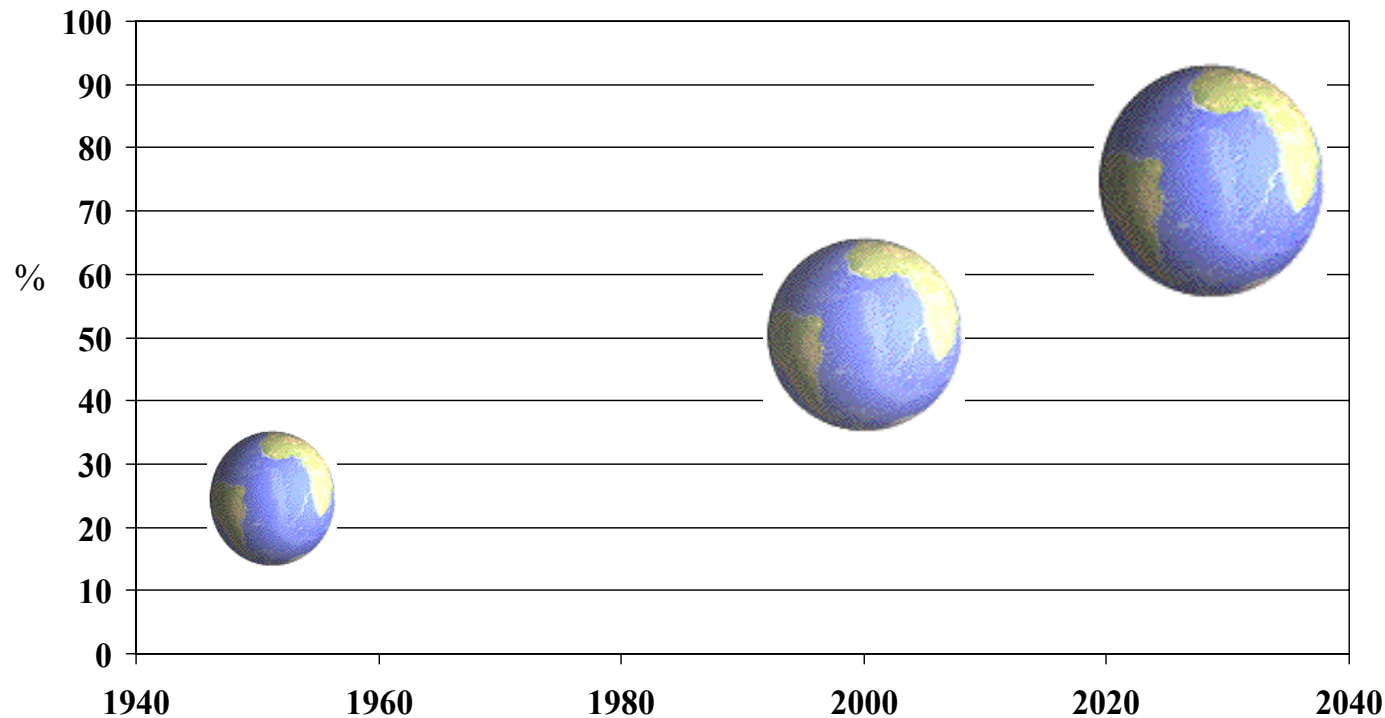
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Environment is one of the most important global issues of today – and it will not go away

Share of World's population involved in international trade



- With a strong growth in the share of World population that participates in trade, energy conservation and environmental responsible use of the resources are key ingredients in maintaining a long-term sustainable growth.

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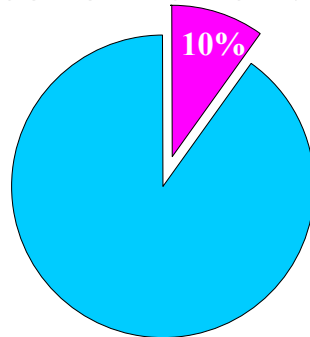
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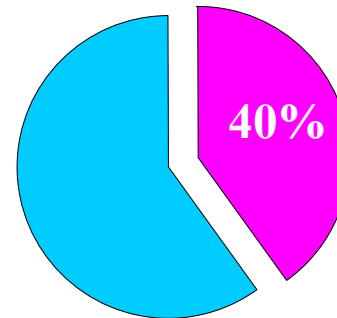
The global construction activity is significant user of resources

- Construction's share of Global resource usage / activities:

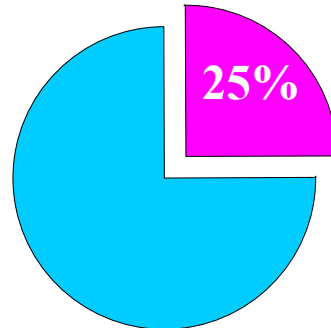
Economic activity



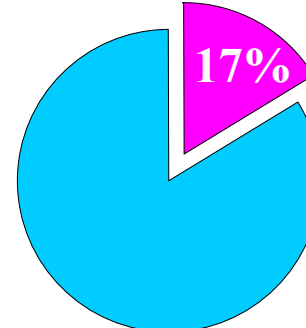
Material & Energy



Harvest



Fresh water

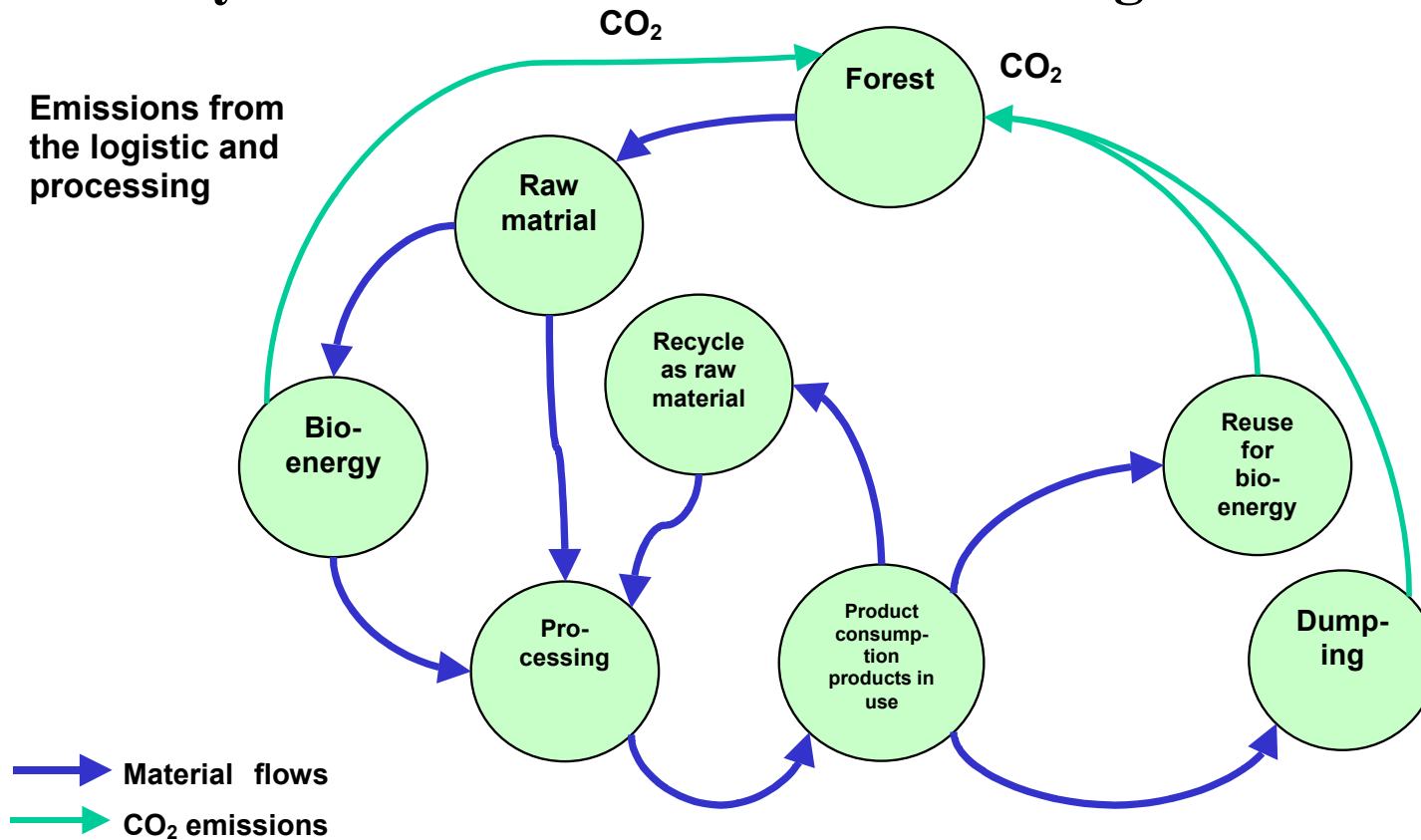


Sources: Forintek Canada Corp., Athena Institute.

Wood has a good story to tell!

- The Wood Environmental Scorecard:
 - Wood helps in mitigation of climate.
 - Wood is renewable.
 - Wood is energy efficient.
 - Wood is natural, feels pleasant, has an inviting texture, and creates wellness experiences.
 - Wood utilisation contributes to sustainable development .
 - Wood allows environmental reasoning in product design: rethink, replace, reduce, recycle, reuse, repair
 - Wood-based materials offer cost efficiency and competitiveness in building.

Life-cycle Assessment of Wood Building Products



Source: Indufor

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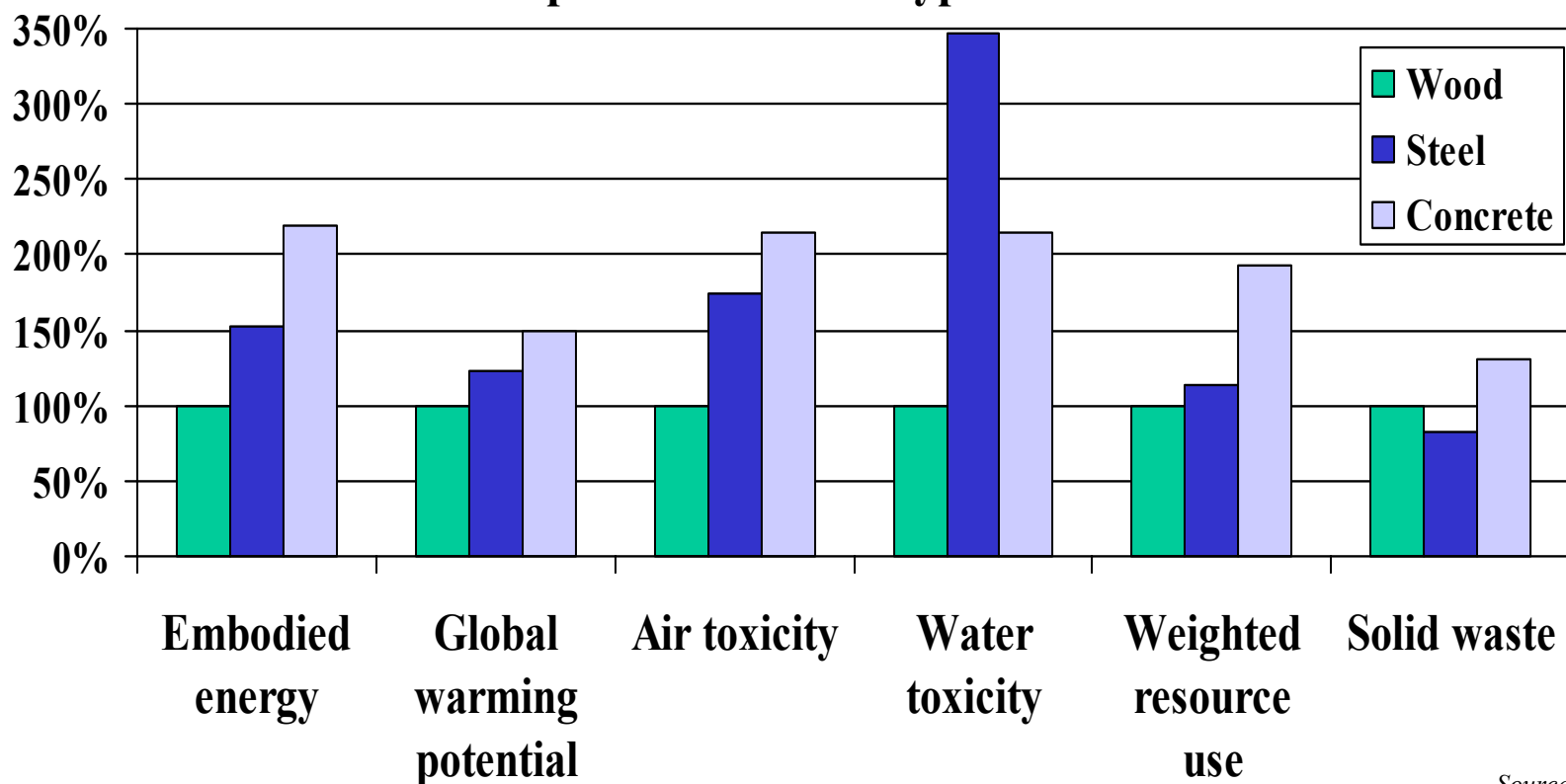
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Wood frame buildings have a lesser environmental footprint than buildings made of competing materials

Environmental impact relative to a typical wood frame home



Source: Indufor

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Environmental Analyses

- The environmental argument is undoubtedly one of the forest/wood products industry's strongest arguments.
- From an overview perspective, the whole environmental debate is complex.
 - Main stakeholders with often severely disparate interests:
 - Governments.
 - Industries.
 - Forest owners
 - Consumer groups / NGOs.
 - Scientific and Education communities.
 - No quick fixes / easy solutions exist.
 - Environmentally sound suggestions risk to be reduced to just “nice words with no real bite”.
- A rapidly increasing number of policies/instruments is emerging on the:
 - National level.
 - International level.
 - Interregional level.

Environmental Analyses

- Impact on the forest and wood working industry of the Kyoto Protocol towards 2010 vary in significance, but long-term (2010+) significance is expected to increase, e.g.:
 - Carbon sequestration in wood products may represent a market value of €1.8 Bn./yr.*
 - Wood products trap carbon when being in use, extending forest carbon sinks.
 - Bioenergy utilisation provides alternative use for what has typically been a raw material for some wood products.

* Estimation by *Indufor*: if increasing wood products consumption growth from 1% to 4%/yr., the market value of the additional 150 million tonnes of sequestered CO₂ is approx. €1,8 Bn. per year.

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Environmental Analyses

- *Key Issues* facing the industry to 2010:
 - Create an environmental agenda for the wood working industry.
 - €1.8 Bn./yr. in potential revenue for forest owners stemming from CO₂ sequestration.
 - Influence the public and policy makers to ensure that:
 - A sustainable forest management is not negatively impacted.
 - A sound utilisation of the forest resource is secured.
 - Make use of “Environment” as a supporting argument for increased usage of wood products, but;
 - Don’t be too technical – but still stick to accepted facts and sound logics.
 - Be aware of the risk of backfire when less cautious countries’ / regions’ forest resources are utilised in a less sustainable way.

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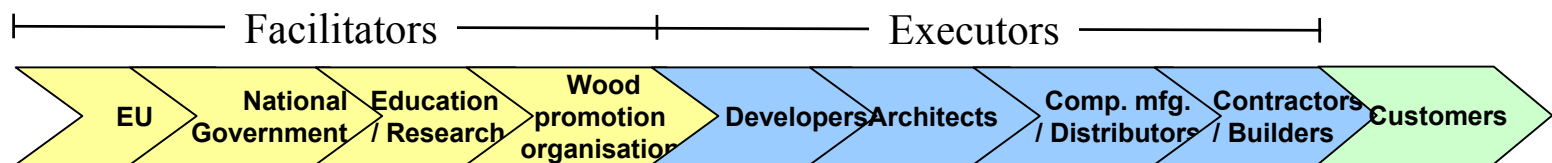
Perception of Consumers and Specifiers of Wood

- Compared with alternate materials, wood is:
 - perceived as:
 - Natural
 - Renewable
 - Economical
 - Sound absorbing
 - NOT perceived as:
 - Strong
 - Durable
 - Modern
 - Fire proof
- Wood vs. Environmental concern:
 - Sensitiveness / polarisation is decreasing in W & N Europe.

Changing Perception through Promotion

- Wood promotion in Europe:
 - Many activities, but too scattered and lack coordination on a European basis.
 - Partly a function of how “Wood–Europe” is organised today.
 - Good examples exist!
 - Wood campaign initiatives in Austria and UK demonstrate that perception of wood can be changed.
 - Pan-European level initiative to coordinate promotion, e.g. the European wood magazine *Building with Wood*.

All stakeholders in the wood products usage chain are important.



Value is a key factor when customers make their buying decision. Equation:

$$\text{Perceived Value} = \frac{(\text{Product's Function})}{(\text{Product's Cost})}$$

Perception of the Woodworking Industry

- *Key Issues* facing the industry to 2010:
 - Capitalise on the generally positive perceptions of wood among consumers with the help of wood-competent building and construction professionals, and less restrictive building regulators, and make wood products the preferred choice, easy-to-use material in:
 - Structural applications (Building with Wood).
 - Appearance applications (Living with Wood).
 - Packaging & Transports.
 - Attract, develop and retain competent people in the industry.
 - Consolidate and reinforce the country and industry based wood promotion activities into a coherent influence with a measurable wood consumption impact on:
 - Product sector.
 - Prioritised area and geography.

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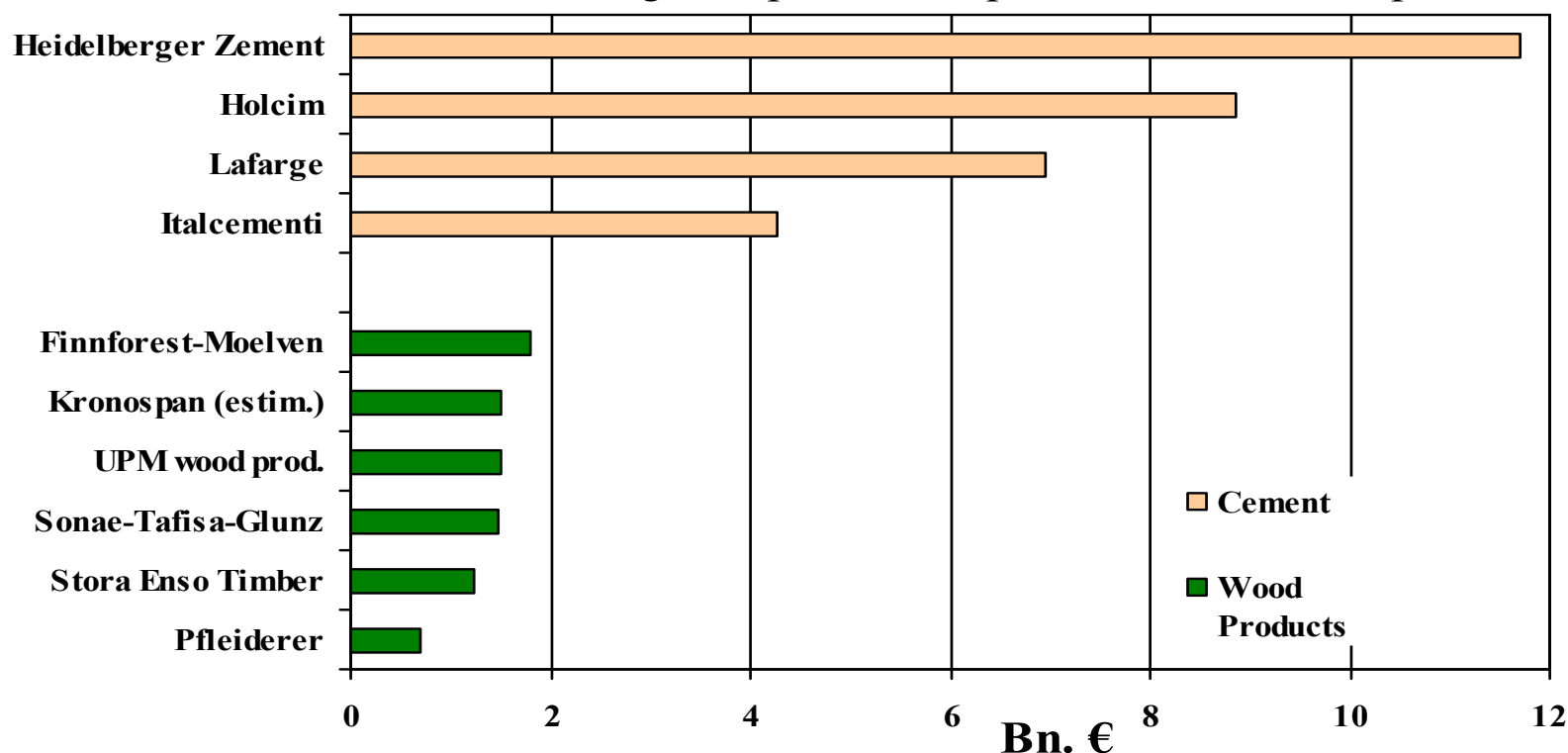
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Key drivers of the industry structure consolidation

- Customers are consolidating – becoming bigger and more demanding to serve, e.g. wider product range and or more elaborate services.
- Shift in “Balance of Negotiation Power” between suppliers and customers, in favour of customers.
- Strong competition with other material producers.
- Scale of economies.
- Capital intensity.
- Consolidation of related pulp & paper business.
- Interest from financial institutions to participate in transformation of industry structure.

In comparison with competing material producers, the biggest European wood products companies are small

2002 sales for leading European wood products and cement producers



- Europe is home to world's two biggest *steel* companies (Thyssen Krupp and Arcelor) with sales of €34 Bn. and €27 Bn. respectively.

Source: Annual reports

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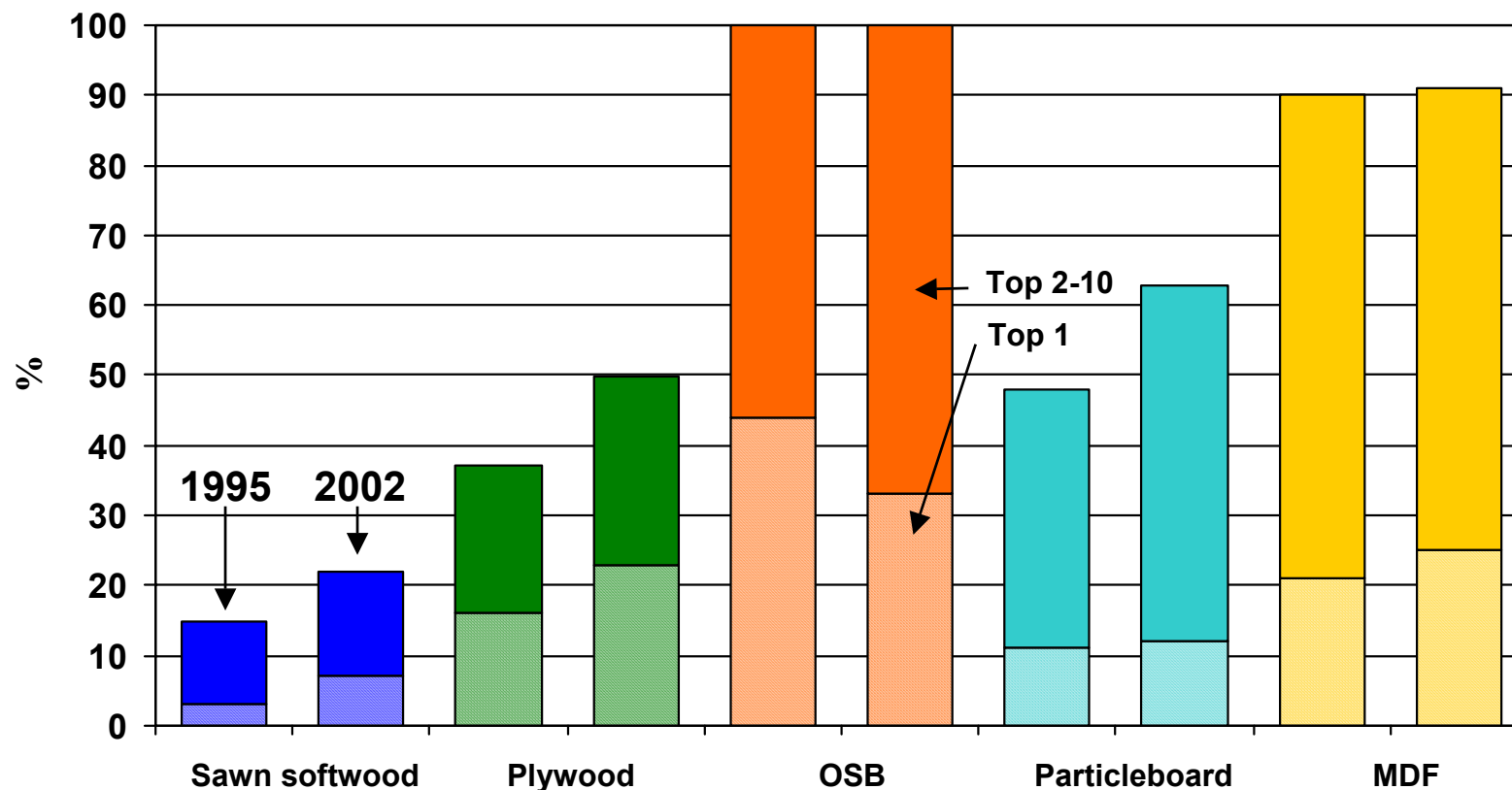
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The European wood producing industry is consolidating

European Top 10 producer's share of European production



Sources: Jaakko Pöyry Consulting, FAO. Timwood analysis.

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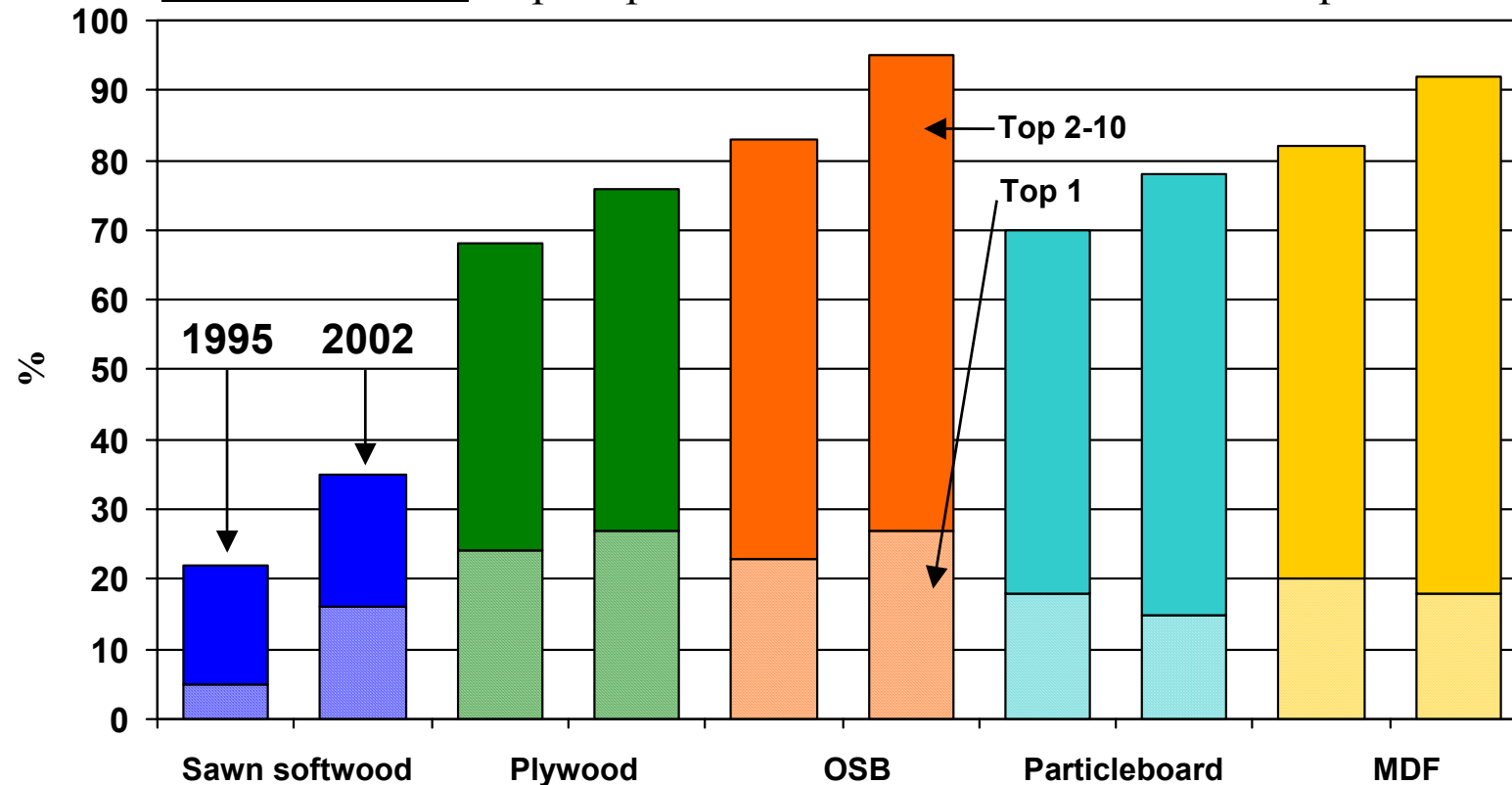
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The North American industry is more consolidated than its European counter parts

North American Top 10 producer's share of North American production



- The North American Top 10's market share typically exceeds that of the European Top 10 by 10-15%.

Sources: Jaakko Pöyry Consulting, FAO, Timwood analysis.

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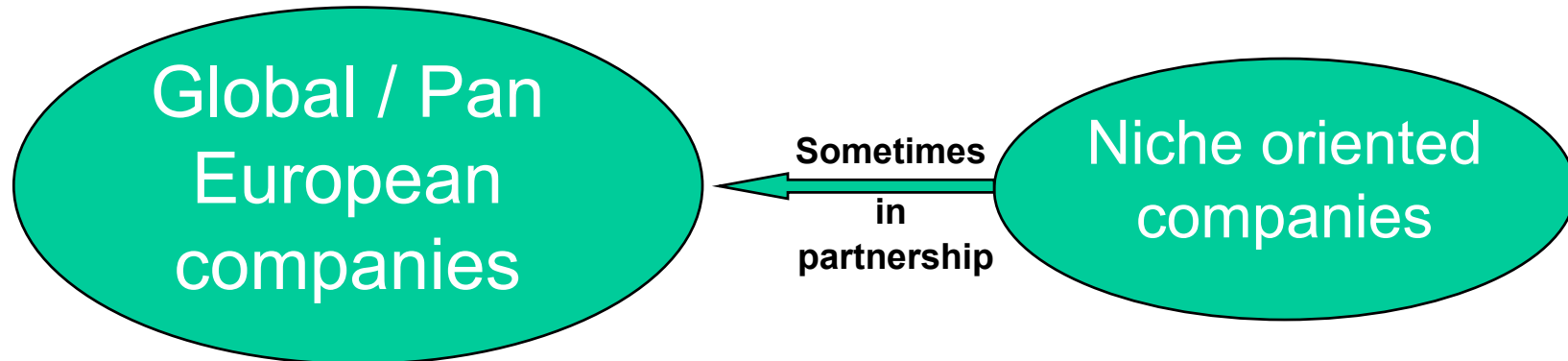
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Consolidation trends

- **Historic** consolidation trend:
 - Trend: Within a product line (e.g. bigger volume of the same product).
 - Panel industry partly an exception through vertical & horizontal integration and clustering.
 - Within a region (e.g. Europe).
- **Future** consolidation
 - Continues primarily within a product line and a region.
 - Attempts to add a wider product line portfolio.
 - Joint Venture in Marketing and Distribution to increase competitiveness.
 - Drivers:
 - Customers' demands on wider product ranges.
 - Increase control of own distribution.
 - System solutions.
 - R & D.
 - Possible spin-off of integrated forest products companies' wood products business.

The future development will likely lead to a polarisation of the wood products industry



- Production located according to low cost on Global/Pan European scale.
- Product portfolio including broad product range and system solutions:
- Global/Pan European marketing and distribution system.
- Purchase complementary products from sub-suppliers.
- Resources for own Research and Development (R&D).
- Build own brand names

- Defined by geography, product offering, quality, customer type, etc.
- High degree of customer adaptation, specialisation & product development.
- High degree of value adding as well as service level to customers.
- Sometimes in partnership with larger wood product companies using their marketing and distribution network.

“Pan-European” vs. “Niche” – both are needed!

- Although large pan-European companies* can dominate based on size, scale must not blind the fact that the best smaller companies* are vital for both the woodworking industry and the society, since they typically:
 - Through product development provide a greater variety than mass-produced and mass-retailed products.
 - Work in close co-operation in industry networks (clusters), generating strength, speed in action and re-action to market trends.
 - Offer a high degree of value adding or solution thinking with high service level.
 - Provide jobs in rural areas where few alternatives exists.
- A “Niche” company can be dominating in a local / regional market or in a particular product.

* Producers, retailers, end-users.

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Market development – Industry Structure

- *Key Issues* facing the industry to 2010:
 - Improve the ability to promote the interest of a diversified and fragmented industry.
 - Improve the relative competitiveness of European production capacity.
 - Improve the competitiveness of the Small & Medium sized Enterprises.
 - Ensure industry's contribution to rural development (social responsibility).

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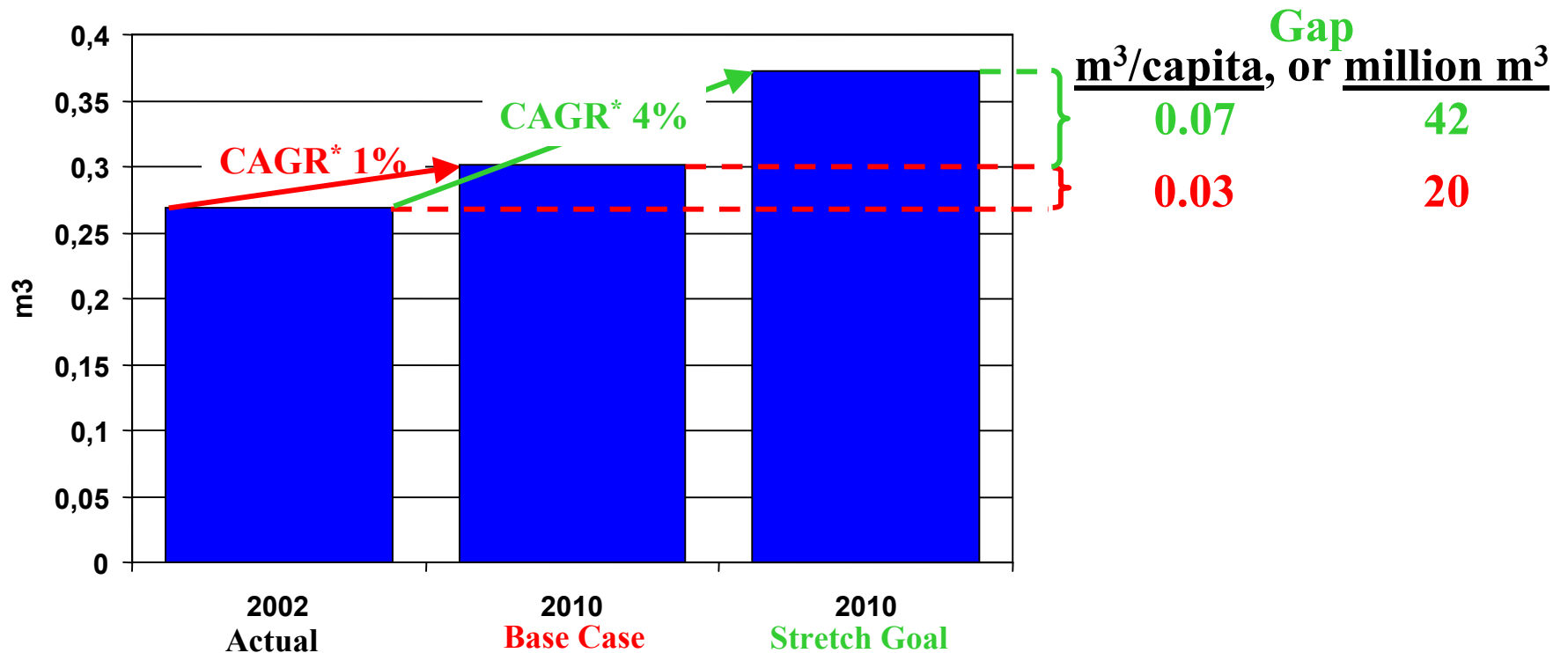
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Demand forecast scenarios – Gap attack!

Europe's per capita consumption, all *primary* wood products, 2002 vs. 2010



- Base Case growth would not be sufficient to support a healthy wood products industry, thus a Stretch Goal is needed. *This will require coordinated efforts to achieve.*

Sources: Jaakko Pöyry Consulting,
Timwood analysis.

* Compound Annual Growth Rate

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Why 4% as a stretch goal? Implications?

- 4% because:
 - compared to *Base Case* 1% it is an ambitious, but yet obtainable goal.
 - anything below 2.5% implies a growth rate that is less than the forecasted average GDP growth and market share loss.
- Implications - examples:
 - €1.8 Bn./yr. in potential market value stemming from increased CO₂ sequestration.
 - Preventing a potentially reduced payability for (softwood) saw logs in the range of €4 Bn./yr.

Typ	Product line, example	Growth 2002-2010, CAGR*	
		Base Case	Stretch Goal
Fast growing	MDF	~ 6%	15+%
- " -	OSB	~ 10%	20+%
Slow growing	Sawn timber	~ 1%	3-4%
- " -	Plywood	~ -1%	1-3%
- " -	Wood furniture	~ 1%	4+%

* Compound Annual Growth Rate

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