



Forest Products Market Interactions

Ed Pepke, Ph.D.

Forest Products Marketing Specialist
UNECE/FAO Timber Branch
Geneva, Switzerland



Capacity Building in Sharing Forest and Market Information
Prague & Krtiny, Czech Republic, 25 October 2005



Contents

- I. Forest products markets
 - Production, consumption & trade
 - Global
 - Regional (N. America, Europe, Asia, Central Asia)
 - Market sectors (logs, lumber, panels)
- II. Certification and certified forest products
- III. Need for international forest products market information



Major information sources

- UNECE/FAO TIMBER database on forest products
- FAOSTAT database on forest products
- UNECE Timber Committee market forecasts
- UNECE/FAO *Forest products annual market review, 2004-2005*
- *Global Forest Products Model*, by Buongiorno, et al.
- UNECE/FAO *European Forest Sector Outlook Study*
- FAO *State of the World's Forests, 2005*
- UN Comtrade analysis by European Forest Institute





I. Forest products markets



Capacity Building in Sharing Forest and Market Information
Prague & Krtiny, Czech Republic, 25 October 2005



A vertical strip on the left side of the slide shows a stack of cut logs, with some blue identification tags visible on the ends of the logs.

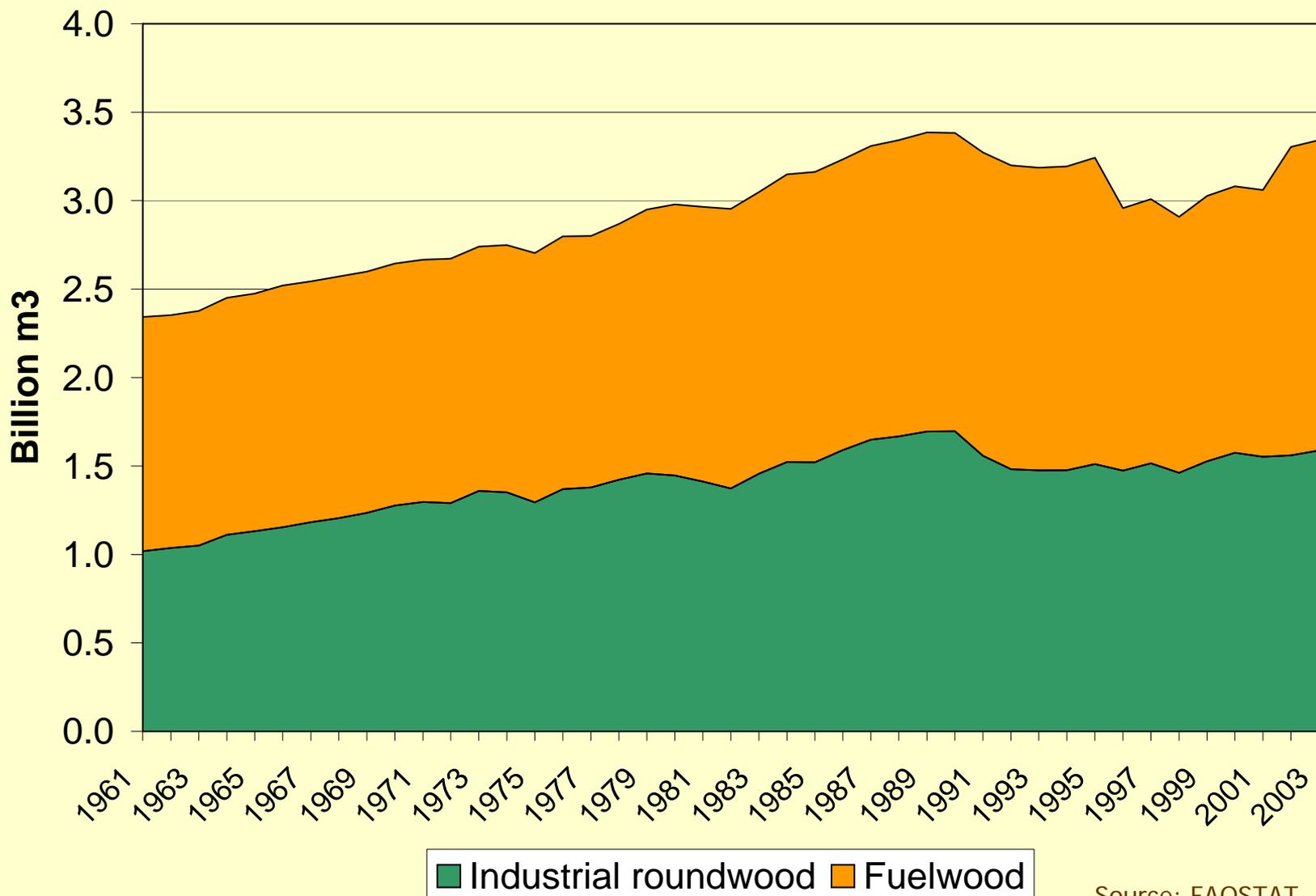
Sectoral analysis: Logs

UNECE/FAO definitions:

- “Roundwood” is industrial roundwood + fuelwood
- “Industrial roundwood” as sawlogs, veneer logs, pulp logs and other industrial roundwood



World production of roundwood, 1961-2003



Source: FAOSTAT



Capacity Building in Sharing Forest and Market Information
Prague & Krtiny, Czech Republic, 25 October 2005



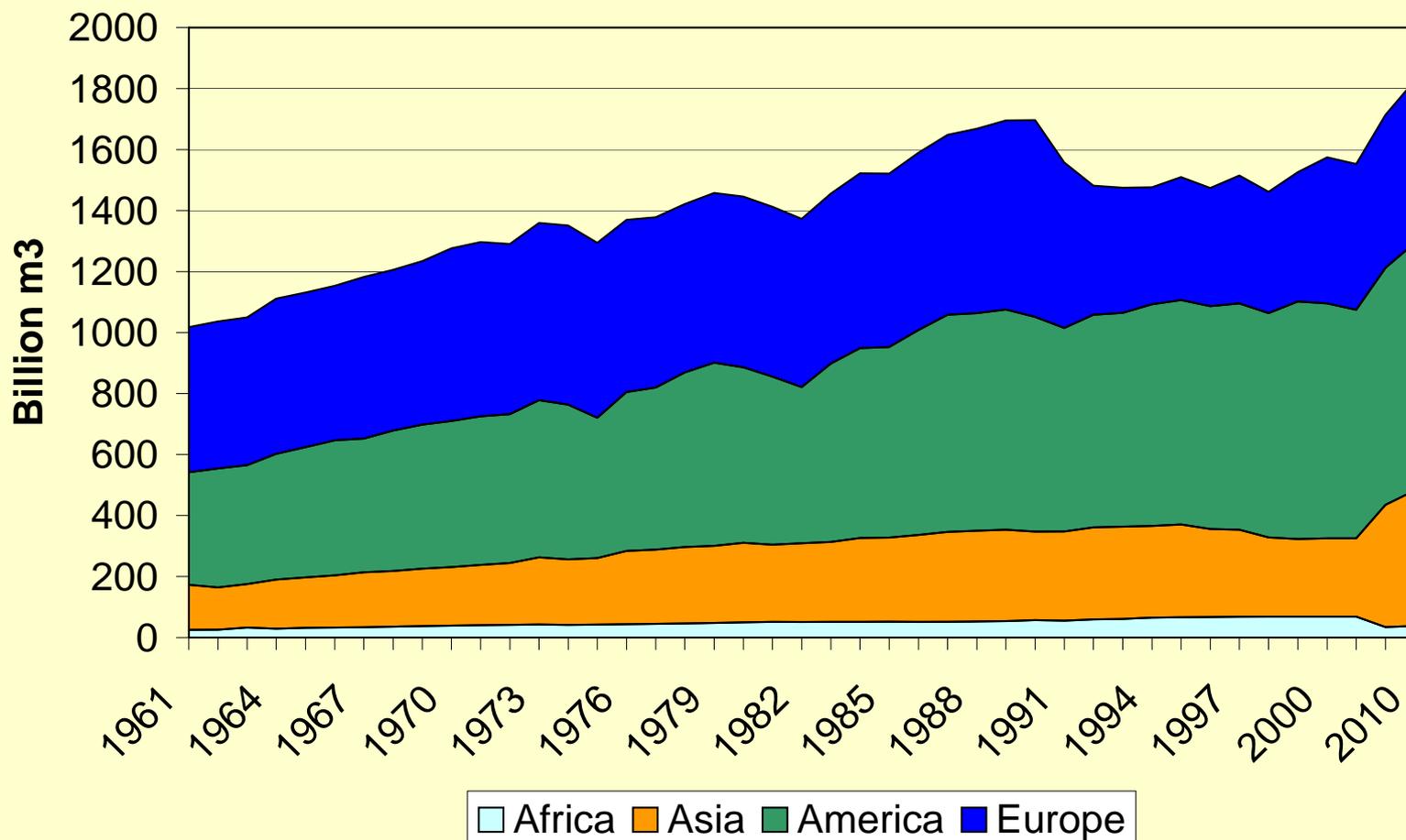
World roundwood utilization as fuel



- Over half used as fuel
 - Domestic heating
 - Cooking
- Mostly in developing countries
- Low value
- Modern wood energy
 - Small international trade
 - Growing market
 - Policy push in Europe



Regional production of industrial roundwood, 1961-2010



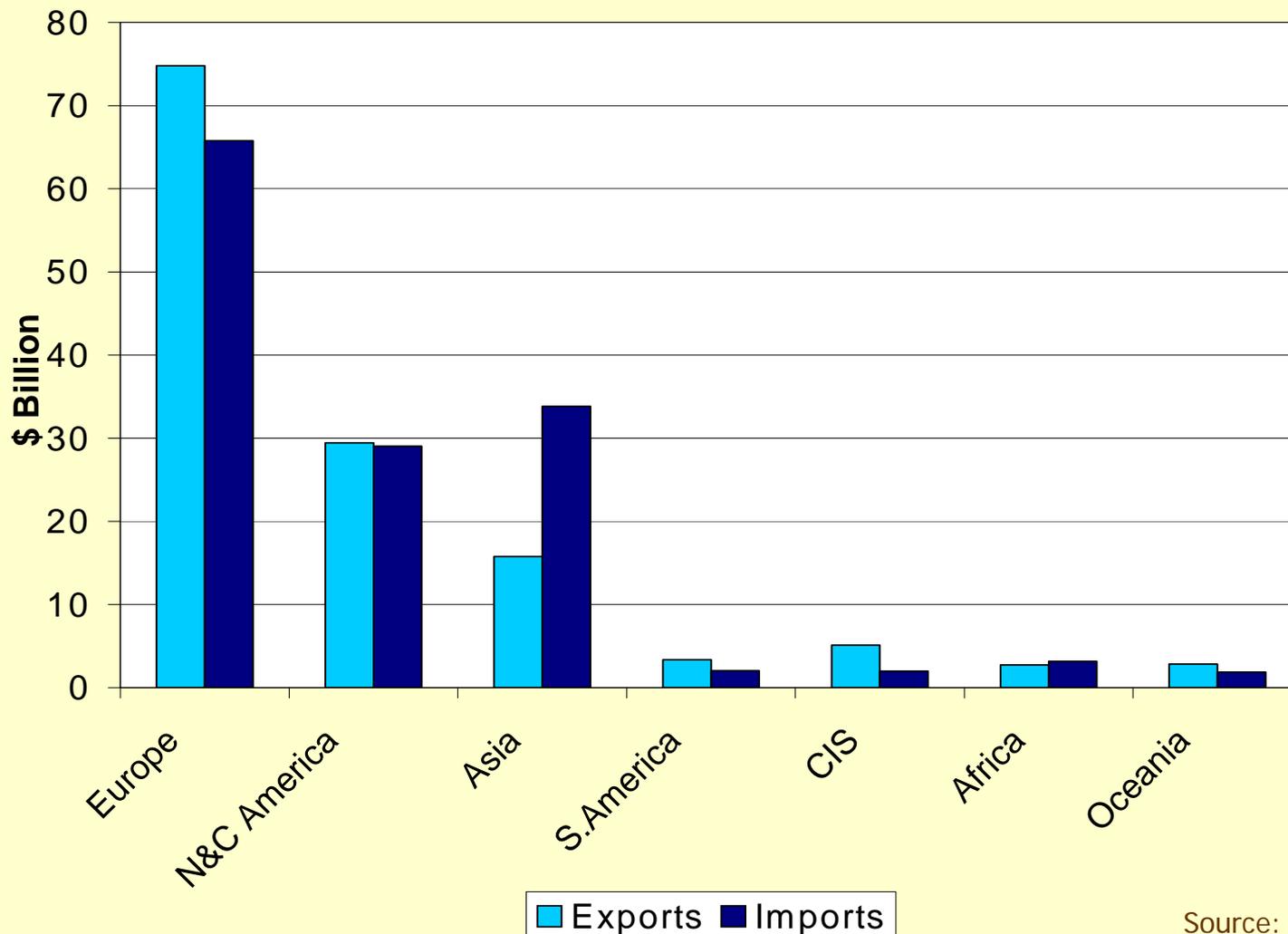
Source: FAOSTAT and FAO Global Forest Products Outlook Study



Capacity Building in Sharing Forest and Market Information
Prague & Krtiny, Czech Republic, 25 October 2005



Regional trade, all primary forest products, 2003



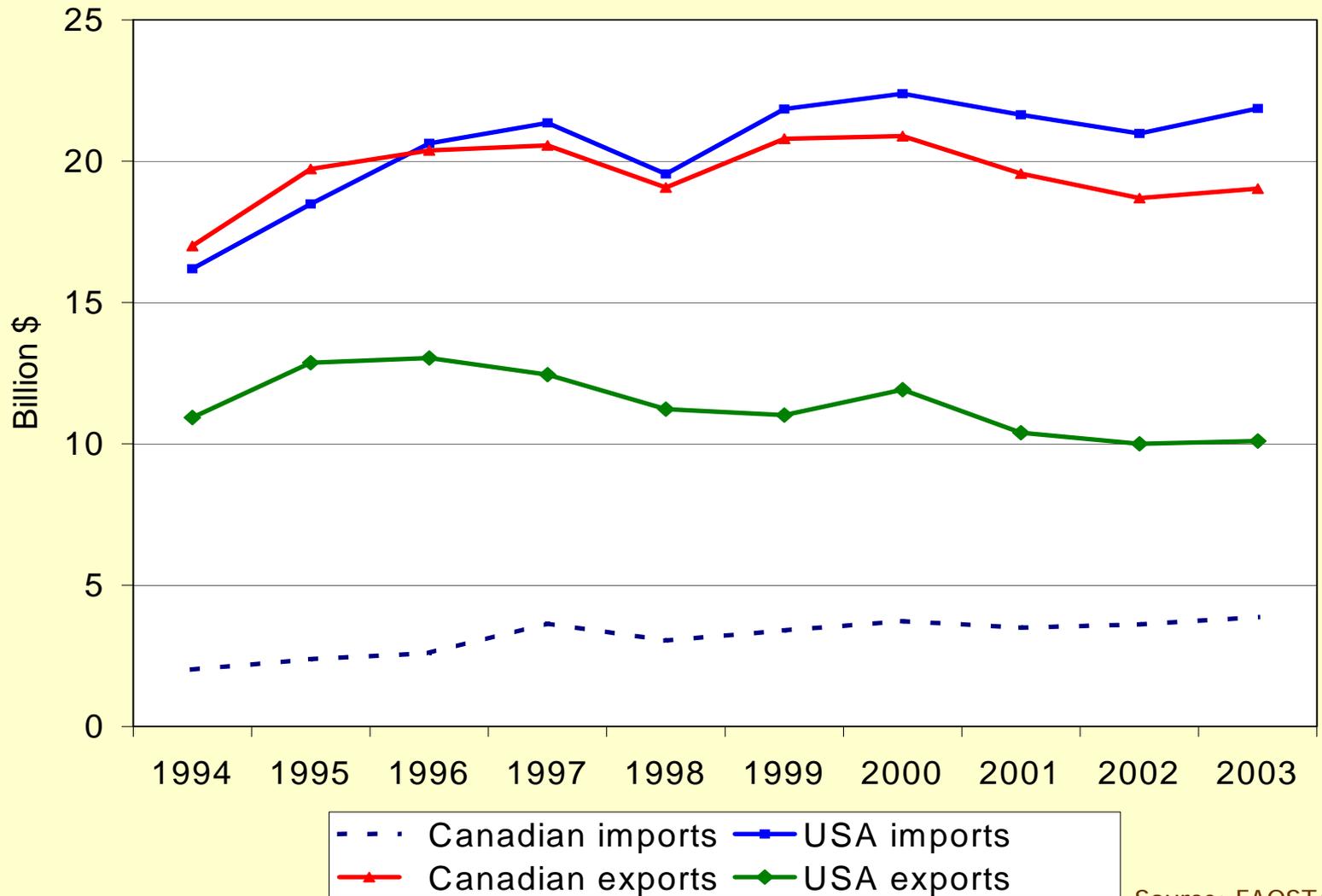
Source: FAOSTAT



Capacity Building in Sharing Forest and Market Information
Prague & Krtiny, Czech Republic, 25 October 2005



North American trade, all primary forest products, 1994-2003



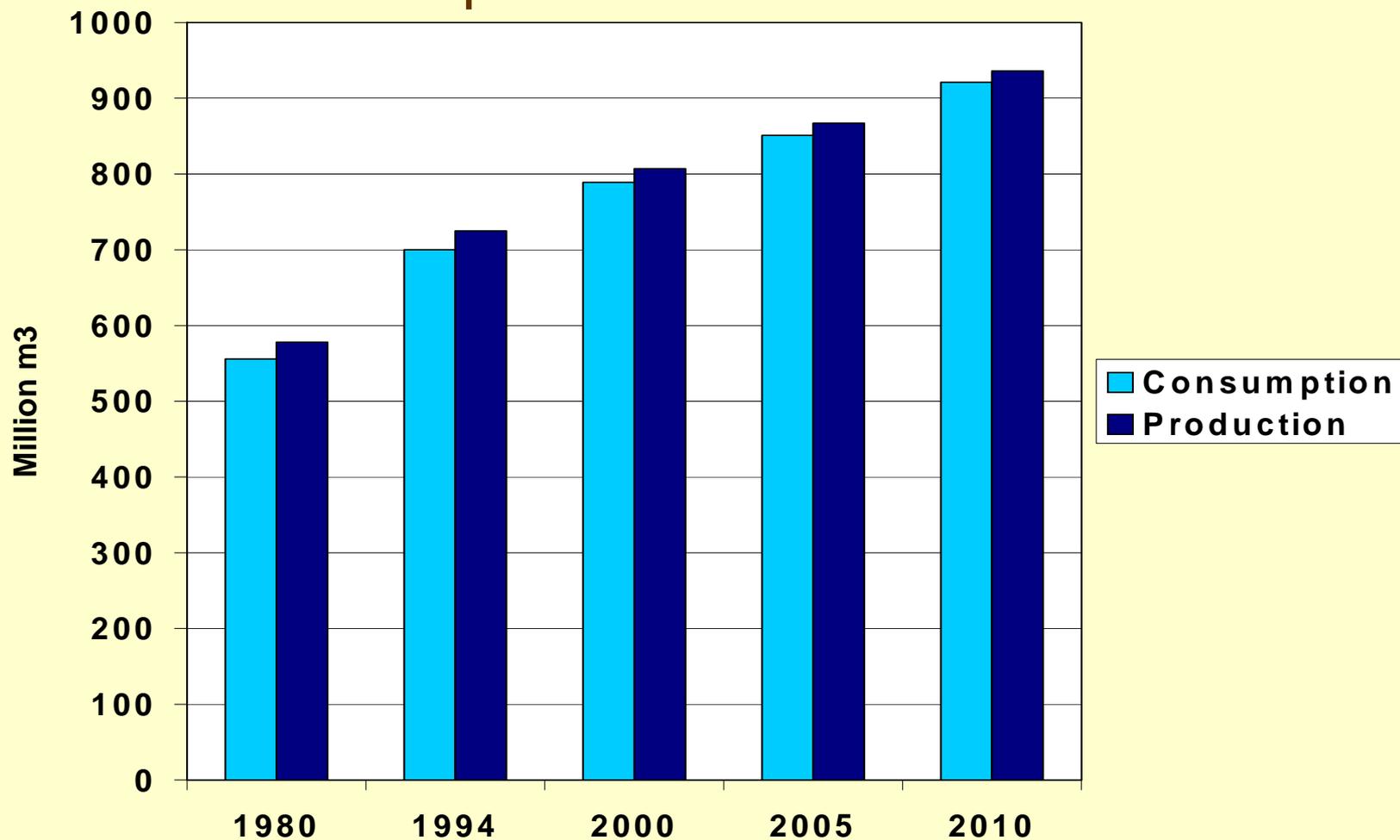
Source: FAOSTAT



Capacity Building in Sharing Forest and Market Information
Prague & Krtiny, Czech Republic, 25 October 2005



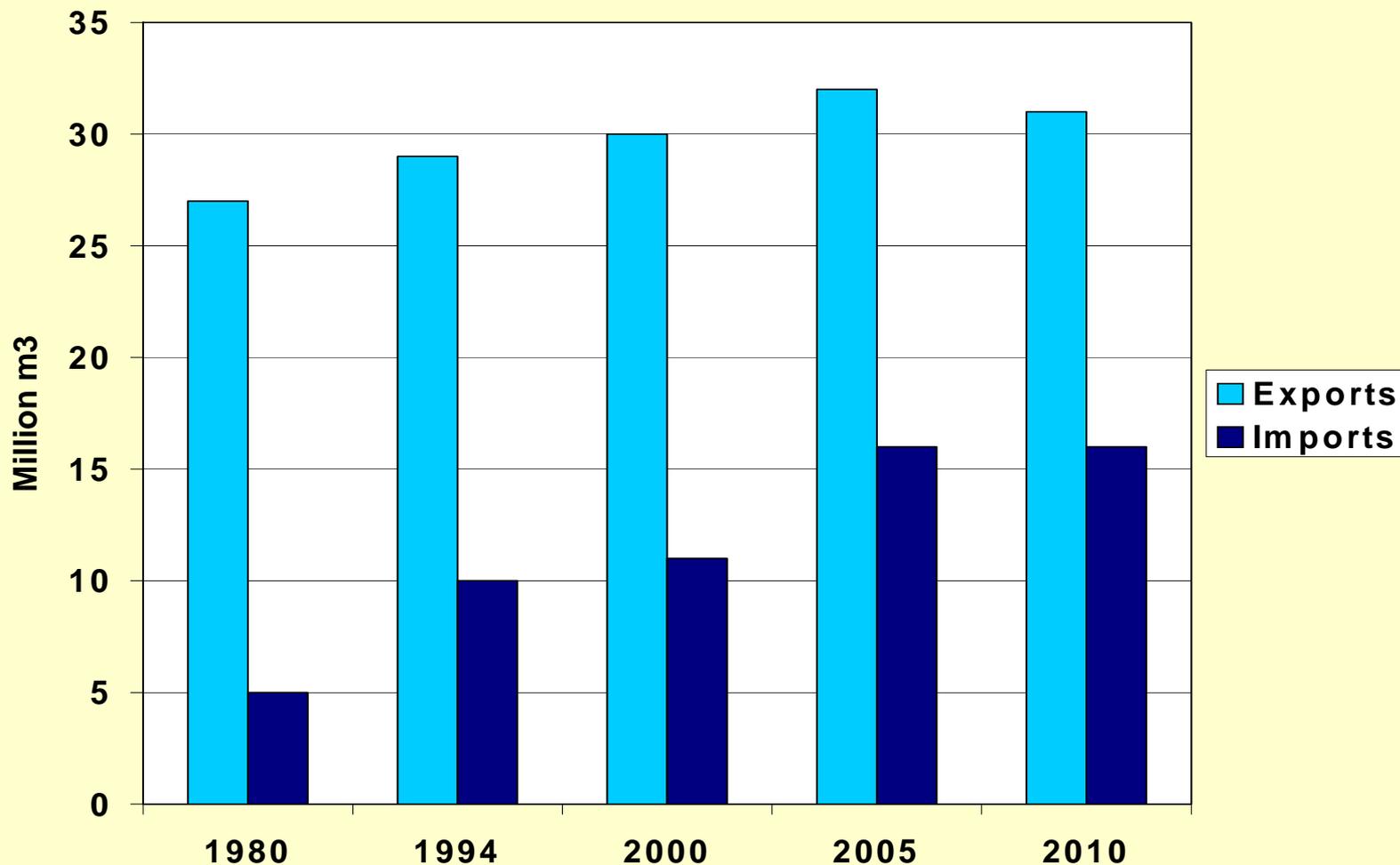
American industrial roundwood consumption and production to 2010



Source: *Global Forest Products Model, 2003*



American industrial roundwood trade to 2010



Source: *Global Forest Products Model, 2003*



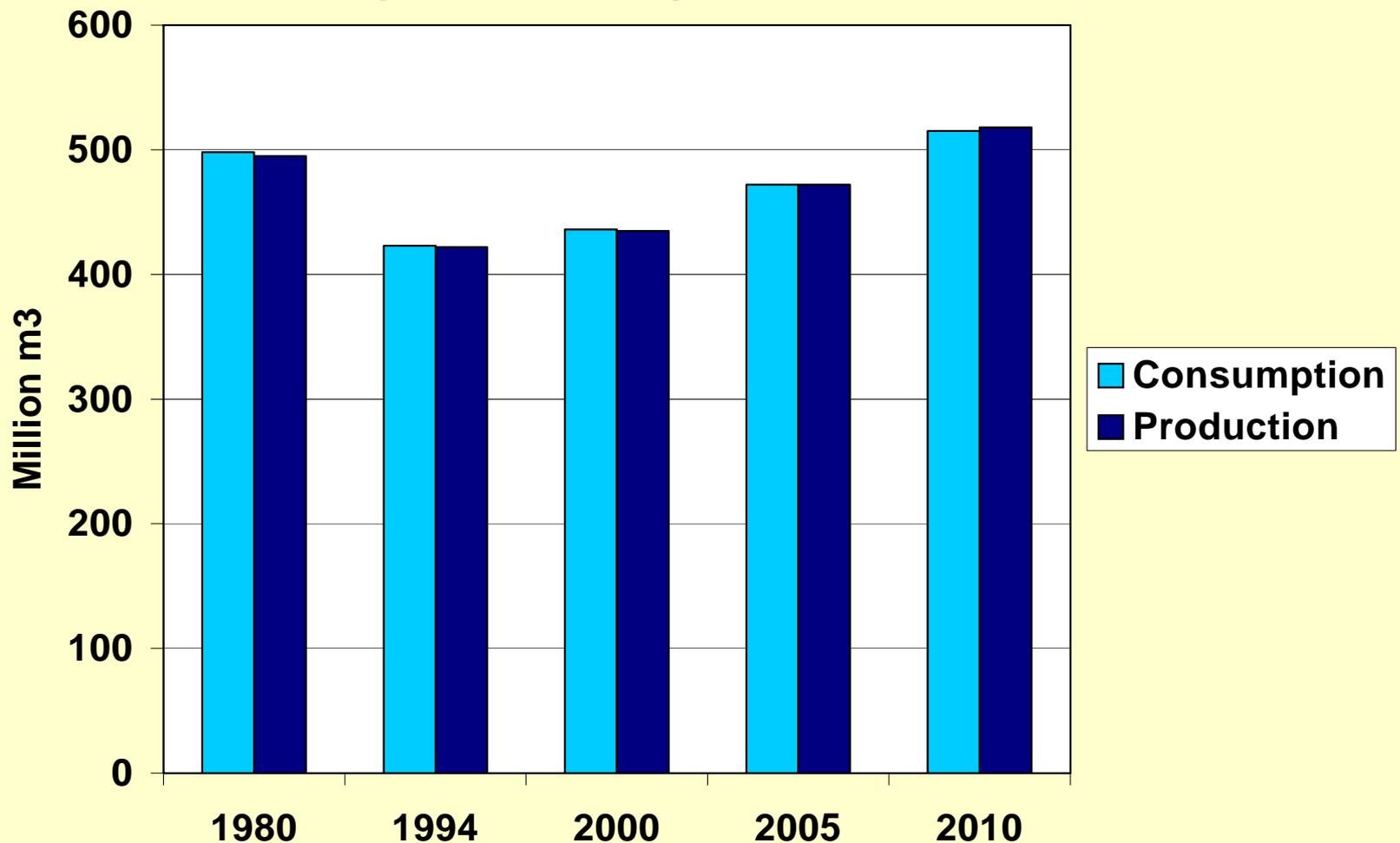
Factors affecting models *and markets*

- Gross domestic product (GDP)
- Population
- Costs and prices (labor, raw material, etc.)
- Technological change
- Government policies
- Socio-economic trends

Source: FAO *Global Forest Products Consumption, Production, Trade and Prices: Global Forest Products Model Projections to 2010*. By Zhu, S; Tomberlin, D; Buongiorno, J., 1998



European industrial roundwood consumption and production to 2010



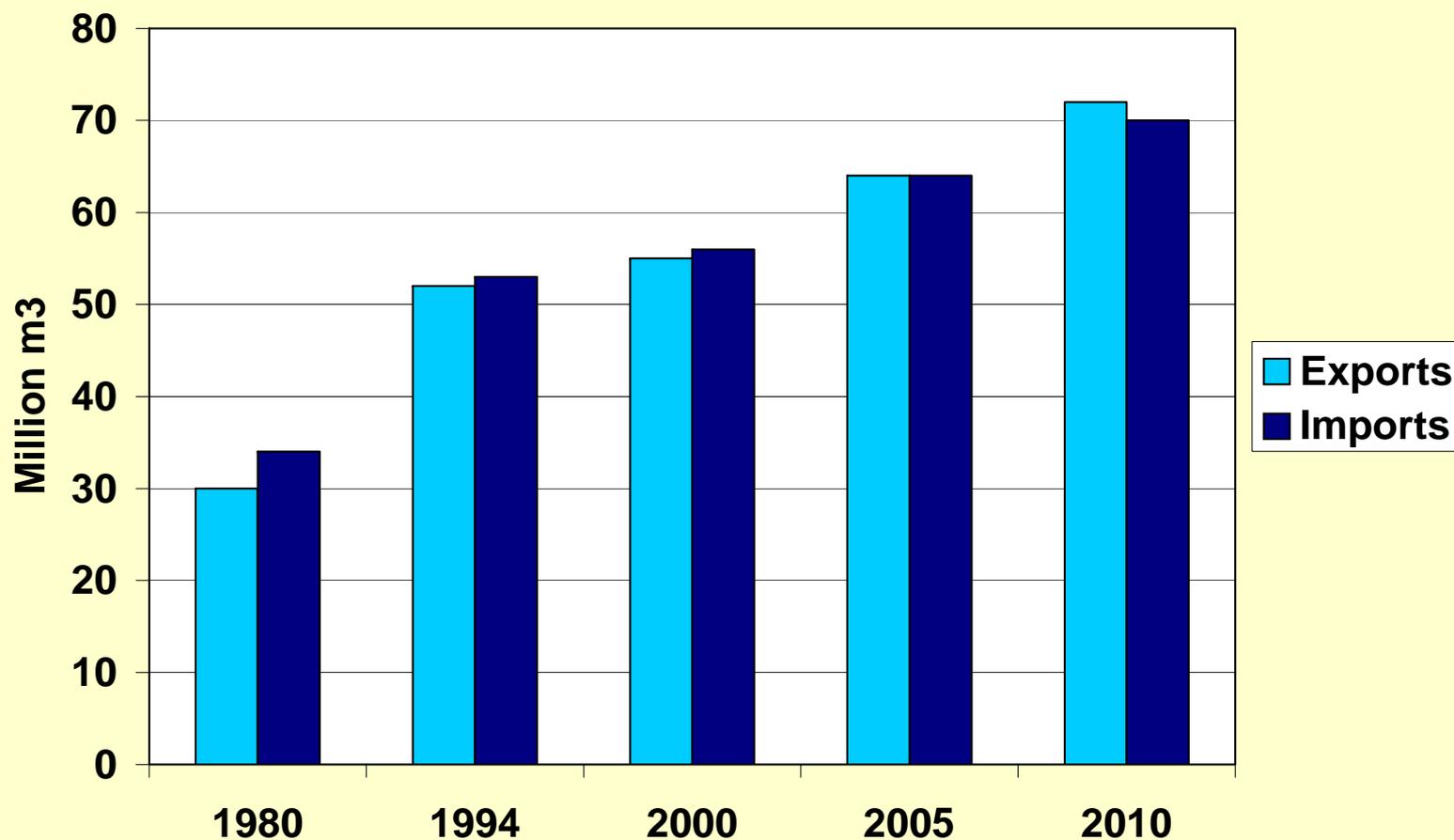
Source: *Global Forest Products Model, 2003*



Capacity Building in Sharing Forest and Market Information
Prague & Krtiny, Czech Republic, 25 October 2005



European industrial roundwood trade to 2010



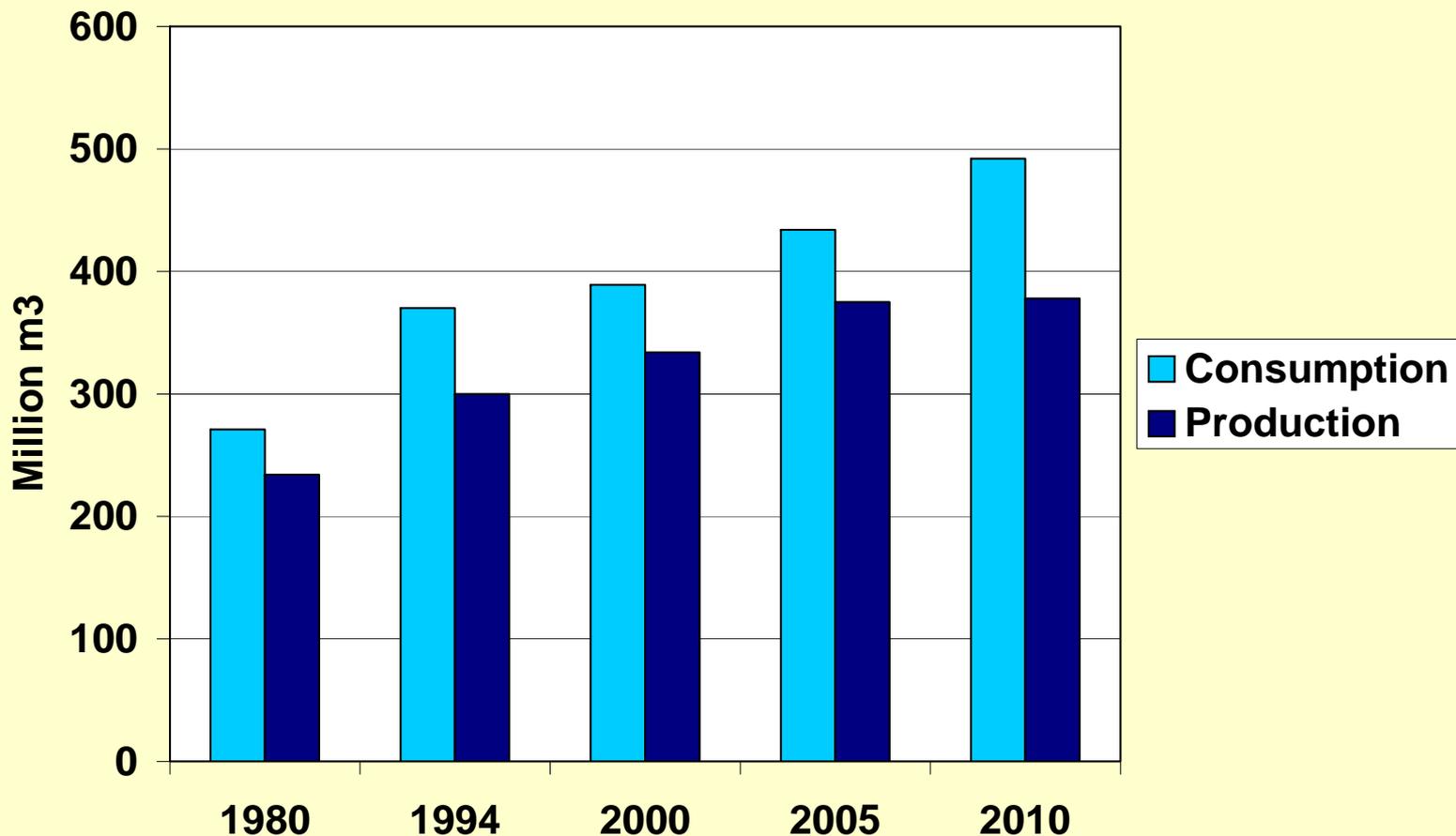
Source: *Global Forest Products Model, 2003*



Capacity Building in Sharing Forest and Market Information
Prague & Krtiny, Czech Republic, 25 October 2005



Asian industrial roundwood consumption & production to 2010



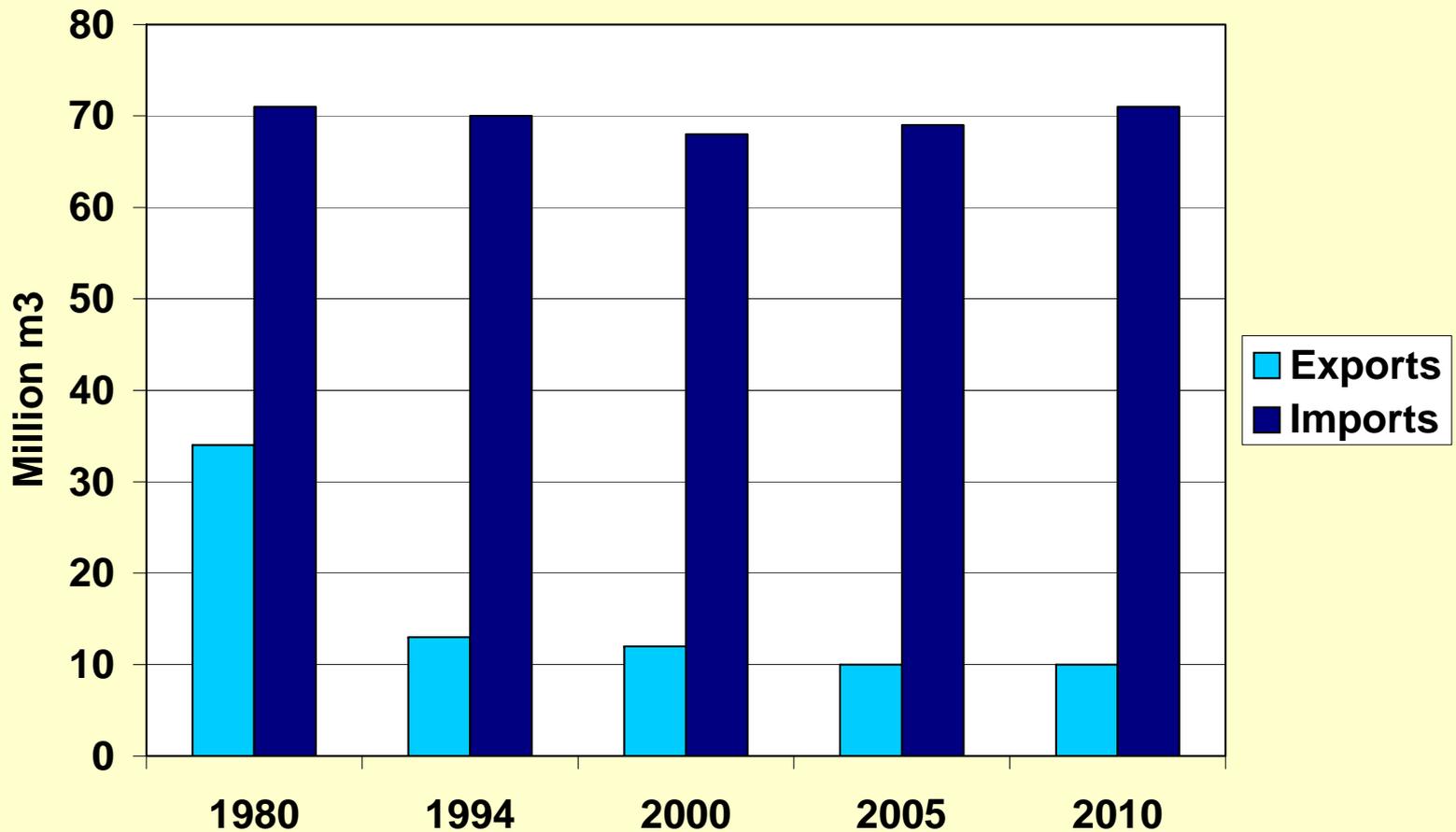
Source: *Global Forest Products Model, 2003*



Capacity Building in Sharing Forest and Market Information
Prague & Krtiny, Czech Republic, 25 October 2005



Asian industrial roundwood trade to 2010



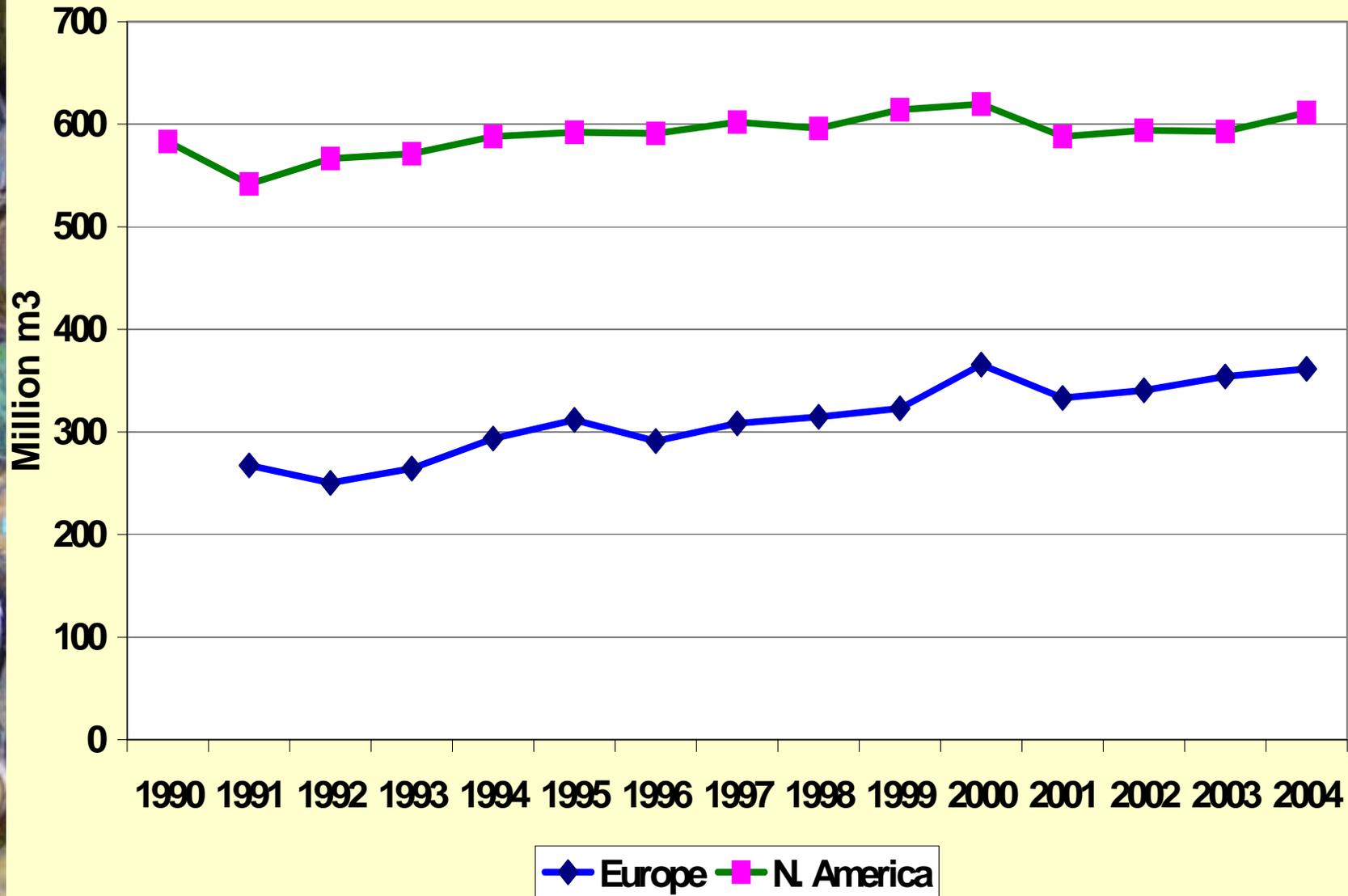
Source: *Global Forest Products Model, 2003*



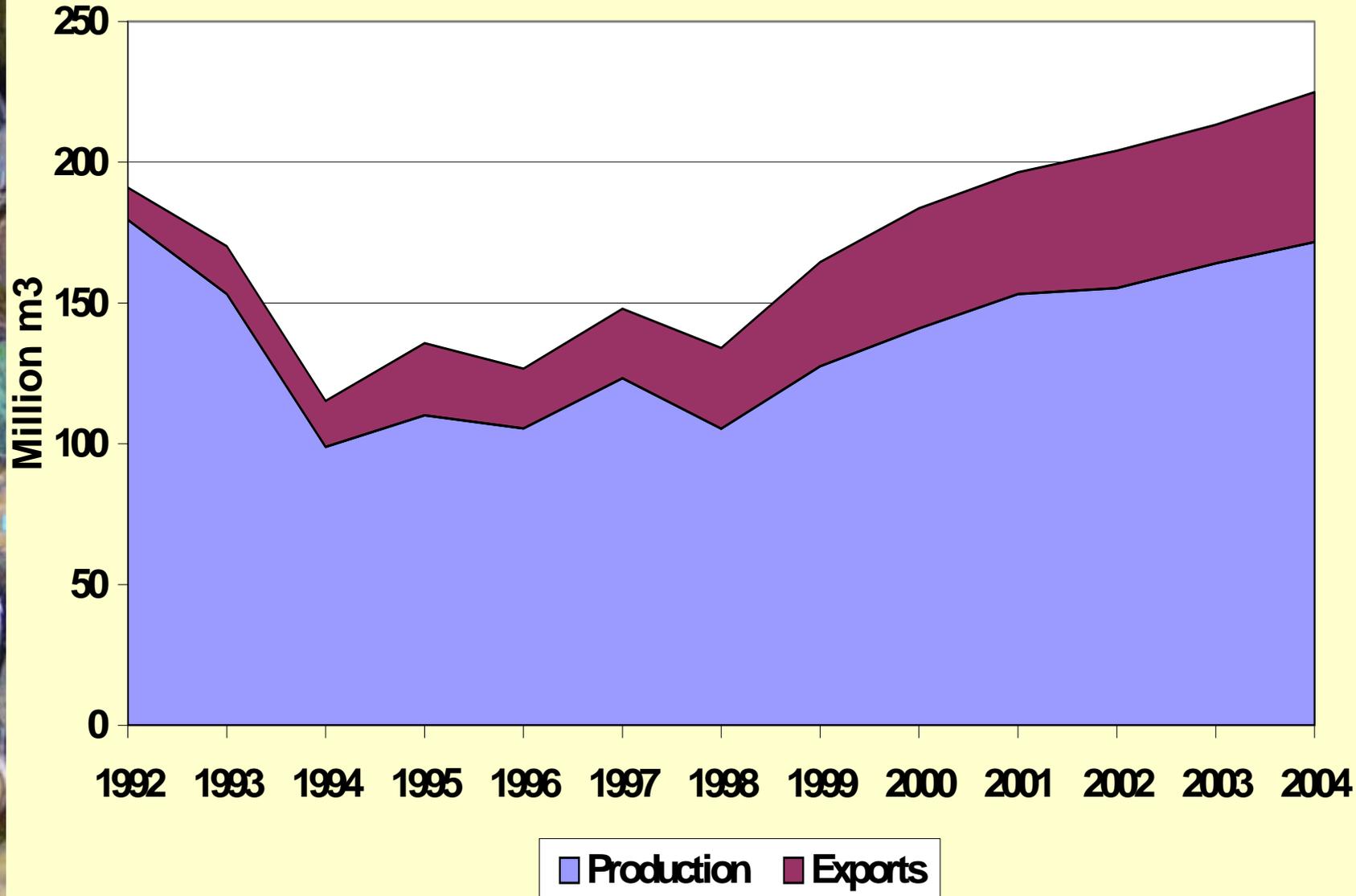
Capacity Building in Sharing Forest and Market Information
Prague & Krtiny, Czech Republic, 25 October 2005



Industrial Roundwood Production, 1990-2004



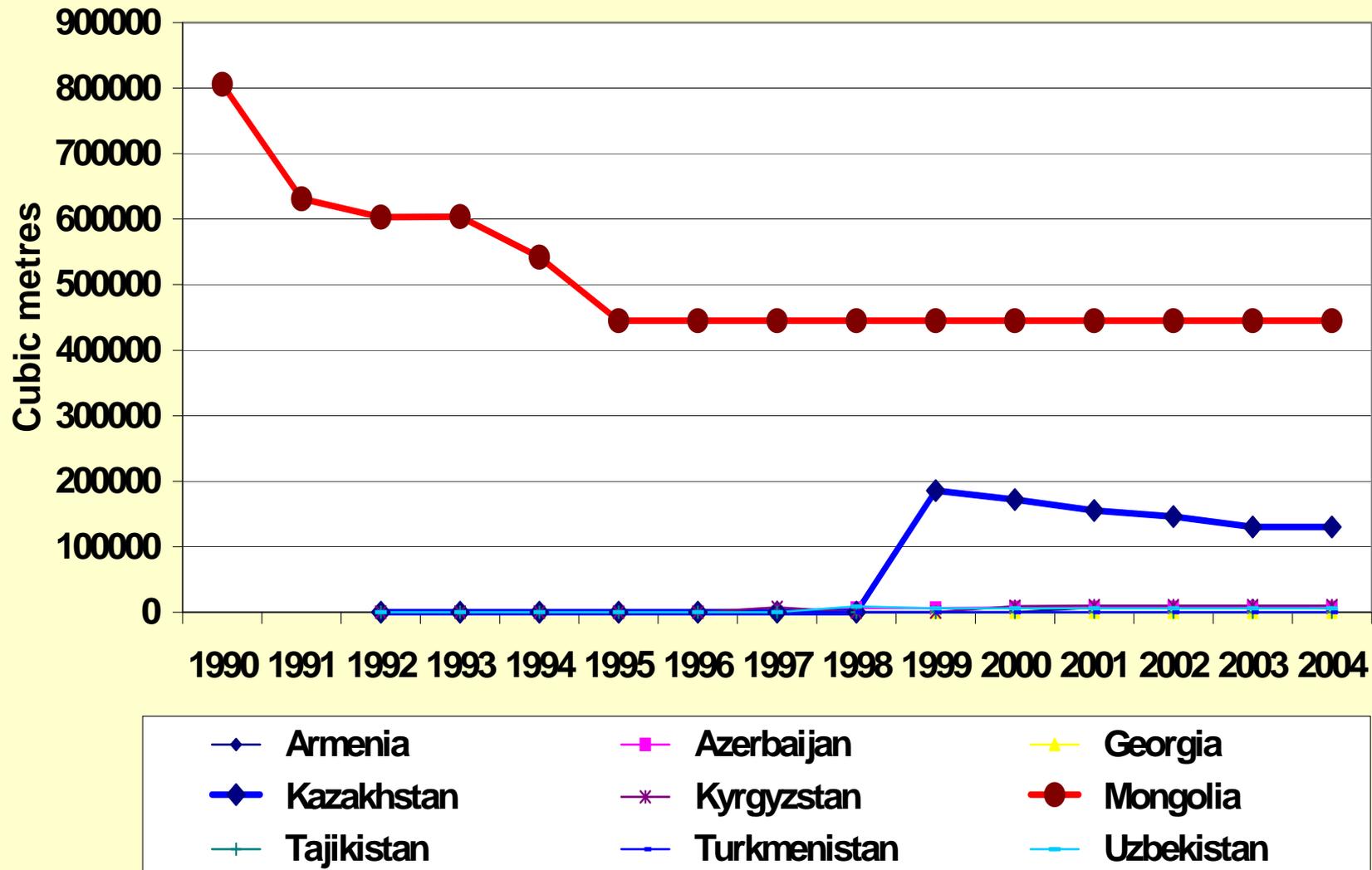
Industrial Roundwood Production and Exports from Former USSR, 1992-2004



Capacity Building in Sharing Forest and Market Information
Prague & Krtiny, Czech Republic, 25 October 2005

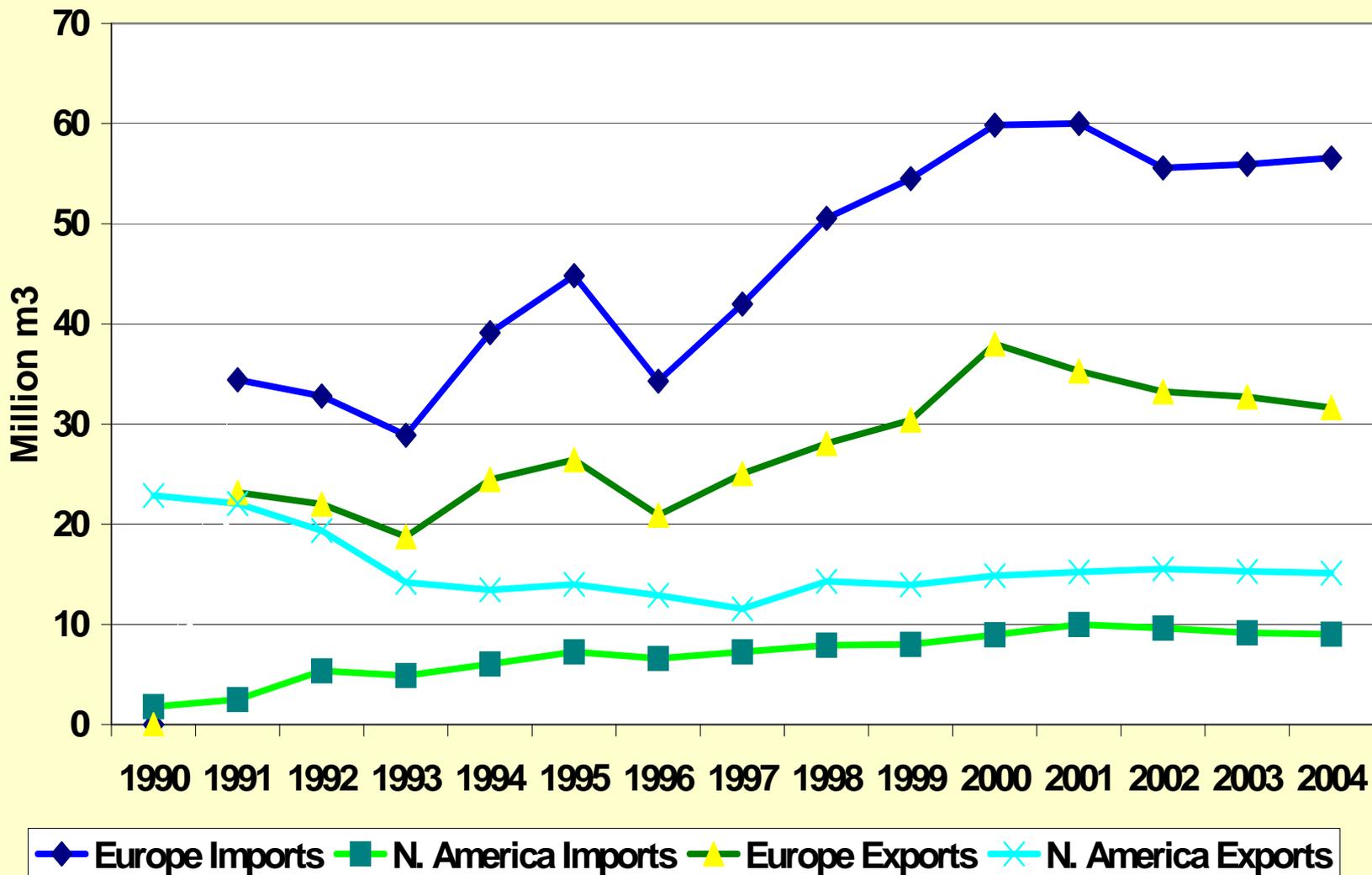


Industrial Roundwood Production, 1990-2004



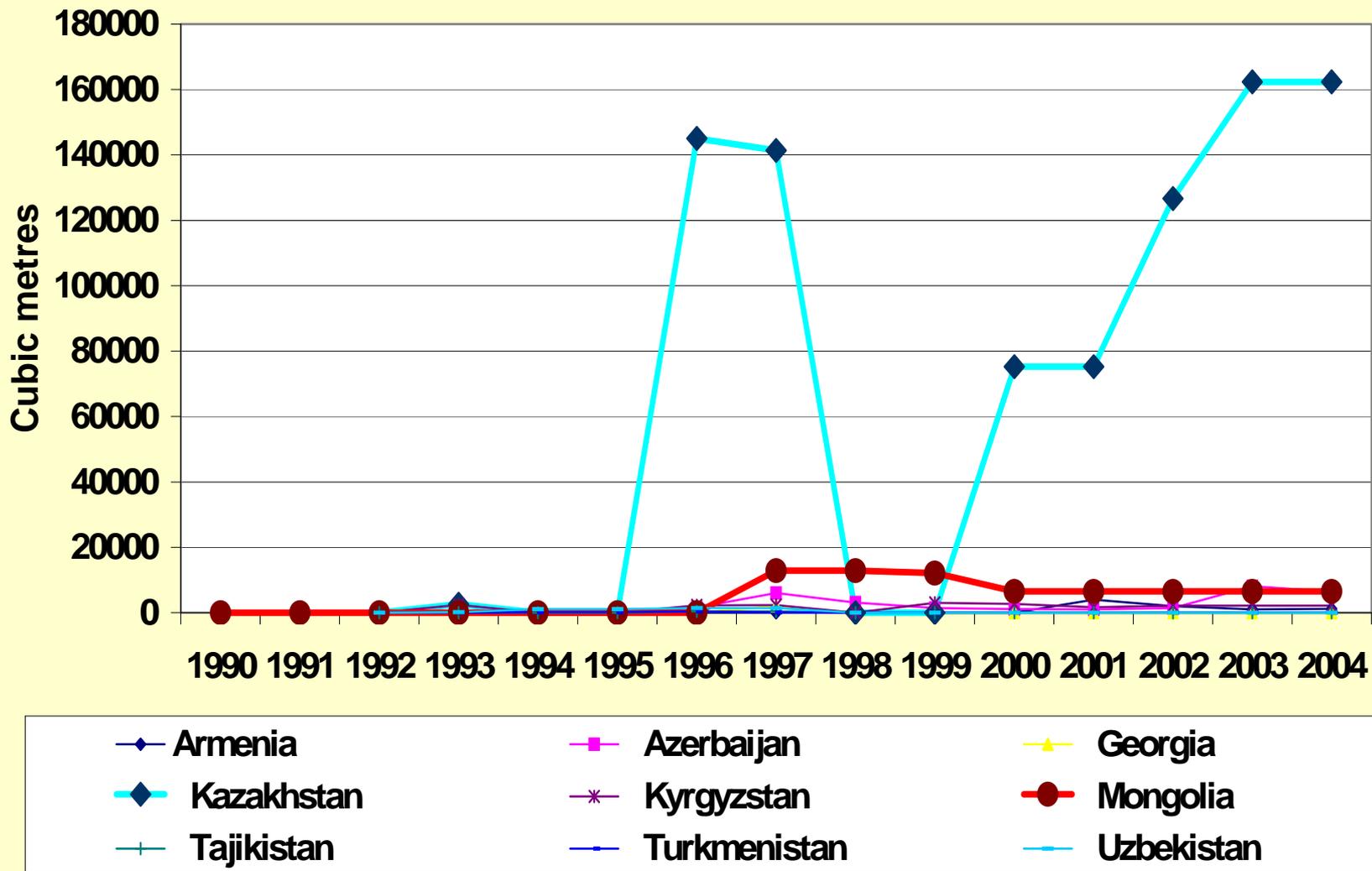


Industrial Roundwood Trade, 1990-2004



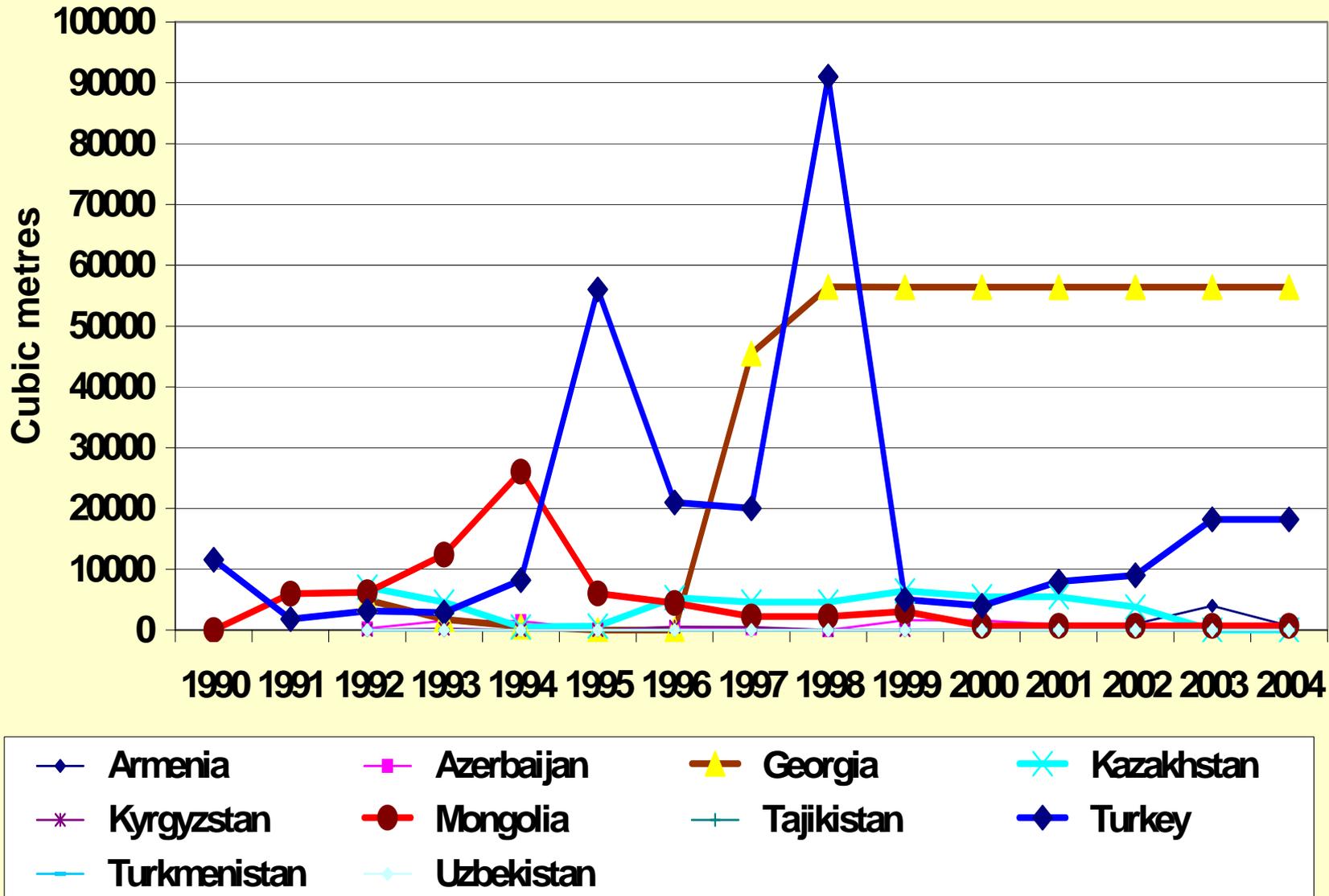


Industrial Roundwood Imports (without Turkey), 1990-2004

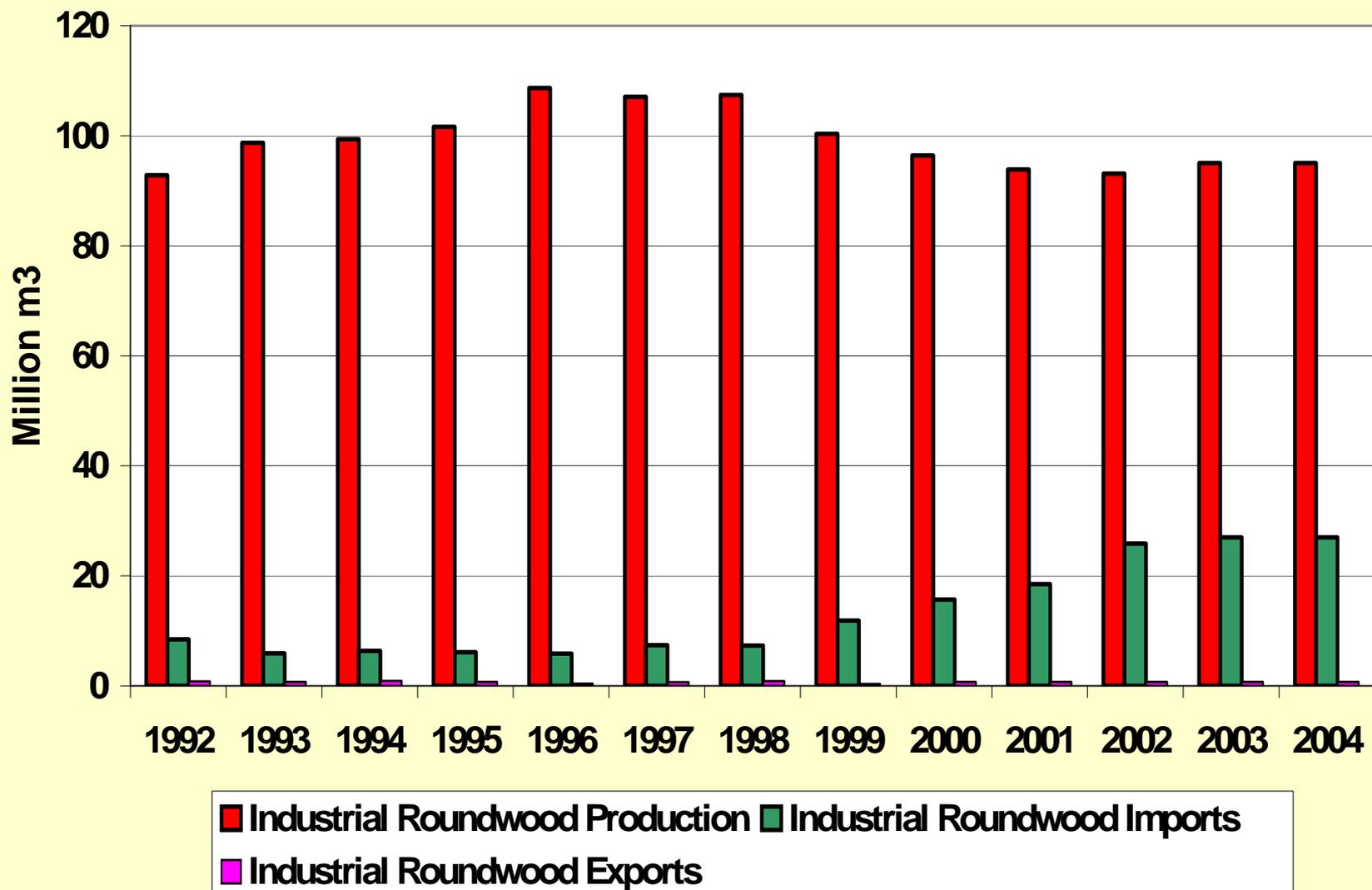




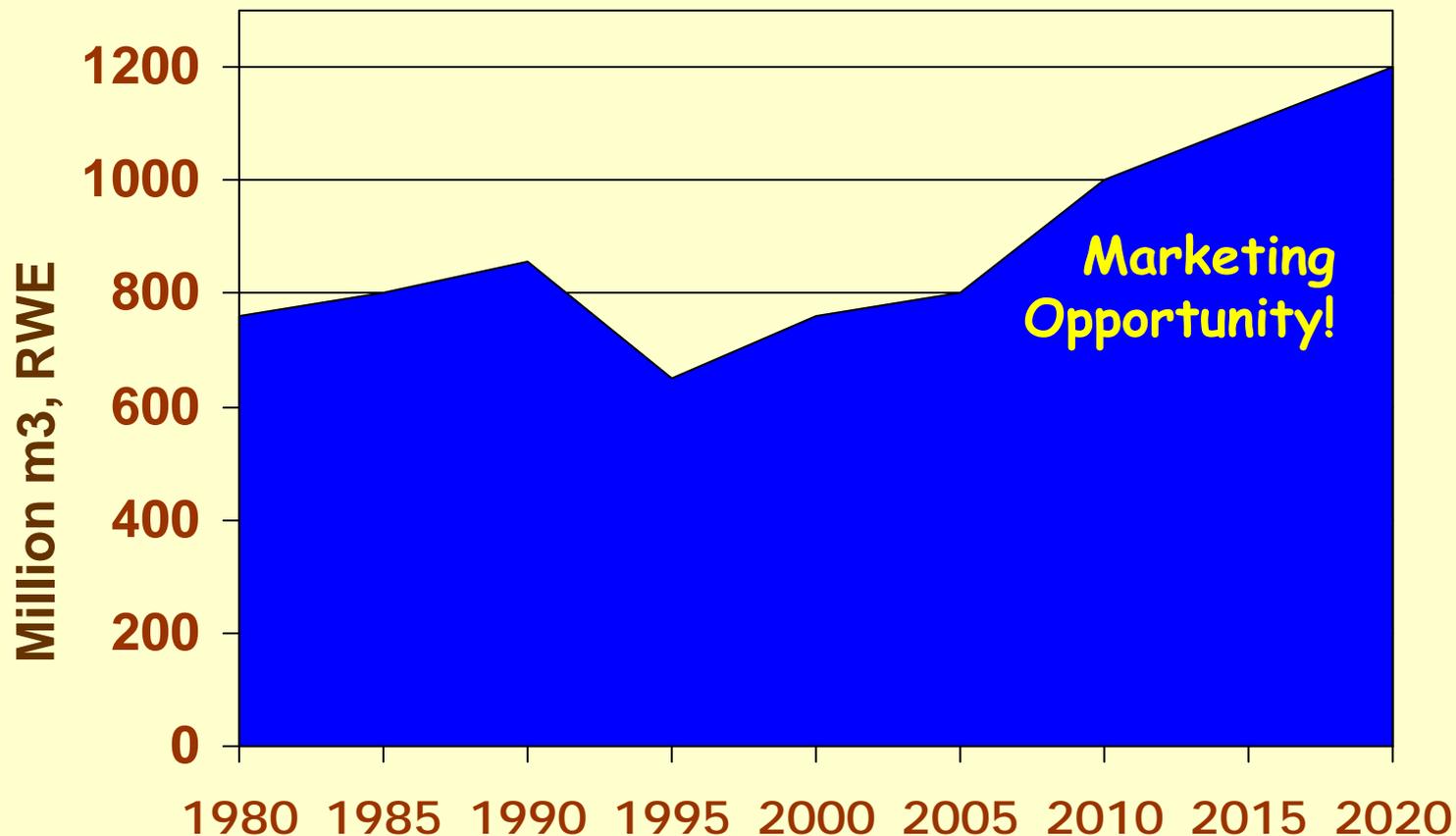
Industrial Roundwood Exports, 1990-2004



China's Industrial Roundwood Market, 1992-2004



European primary wood products demand, 1980-2020



RWE=RoundWood Equivalent.

Source: European Forest Sector Outlook Study, 2005.



A vertical strip on the left side of the slide shows a stack of cut logs, with the circular ends of the wood visible. The logs are stacked closely together, and the wood grain is clearly visible on the cut surfaces.

Major influences on current European forest sector

- Expanding markets, but resources outgrowing markets
- Intensifying trade
- Recovery from transition to market economies
- Non-wood forest products increasing demand, value
- Renewable energy policy of EU and member countries
- Globalization of forest products trade
- Innovation of products and processing
- Recycling of paper, use of byproducts

Source: UNECE/FAO *European Forest Sector Outlook Study*, 2005





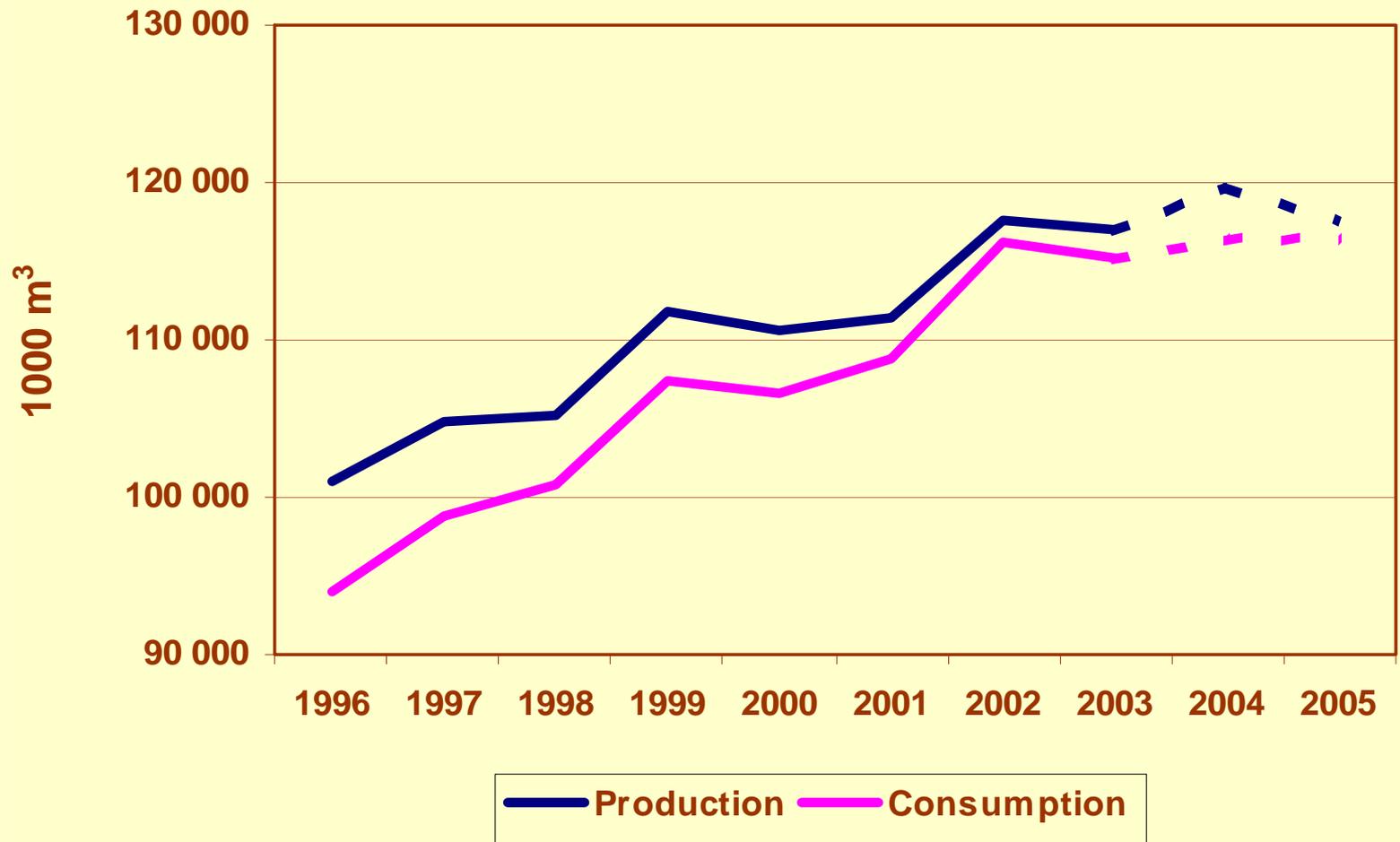
Sectoral analysis: Sawnwood



Capacity Building in Sharing Forest and Market Information
Prague & Krtiny, Czech Republic, 25 October 2005



N. American sawn softwood market, 1996-2005

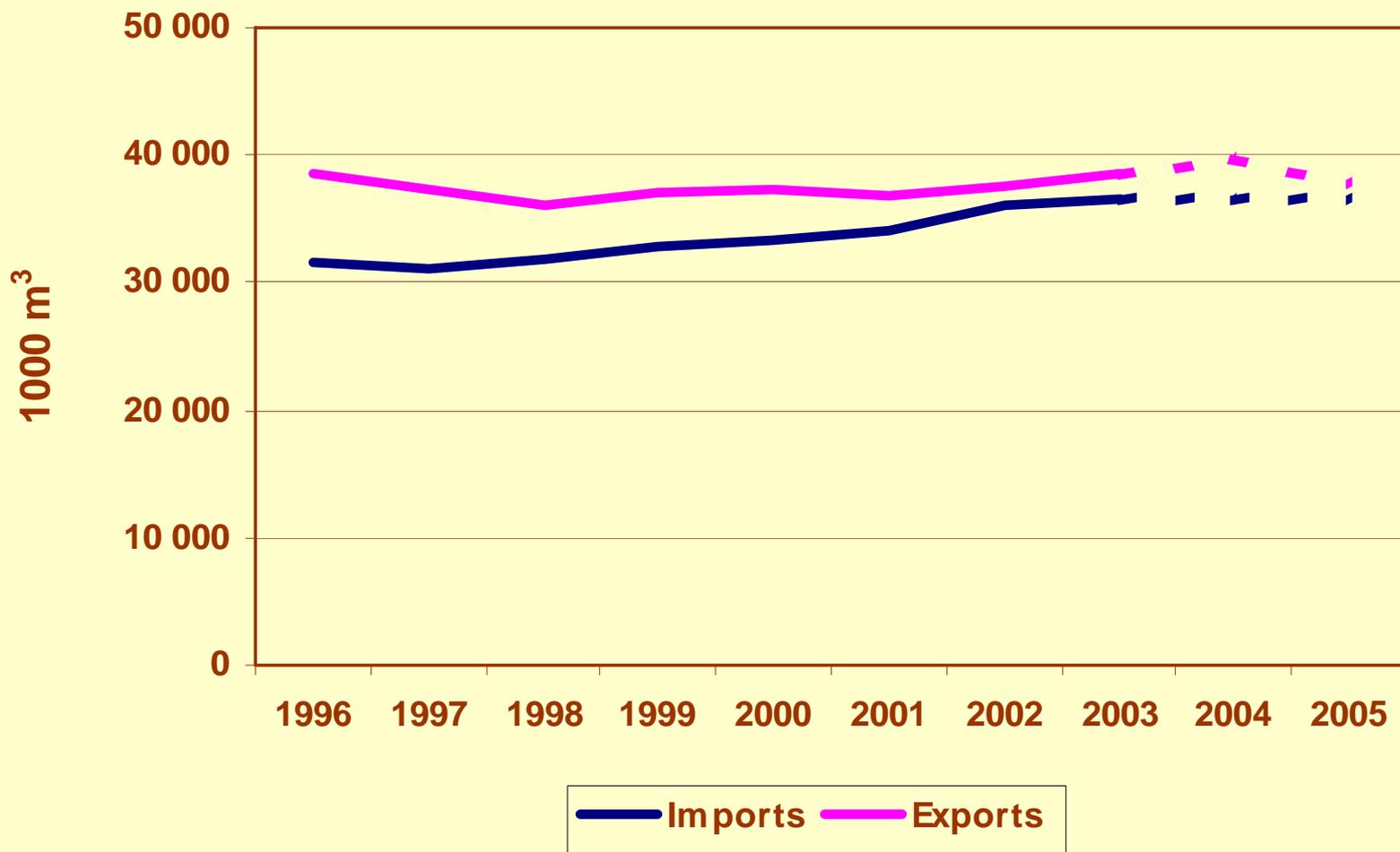


Source: UNECE Timber Committee forecasts, 10.2004





N. American sawn softwood trade, 1996-2005

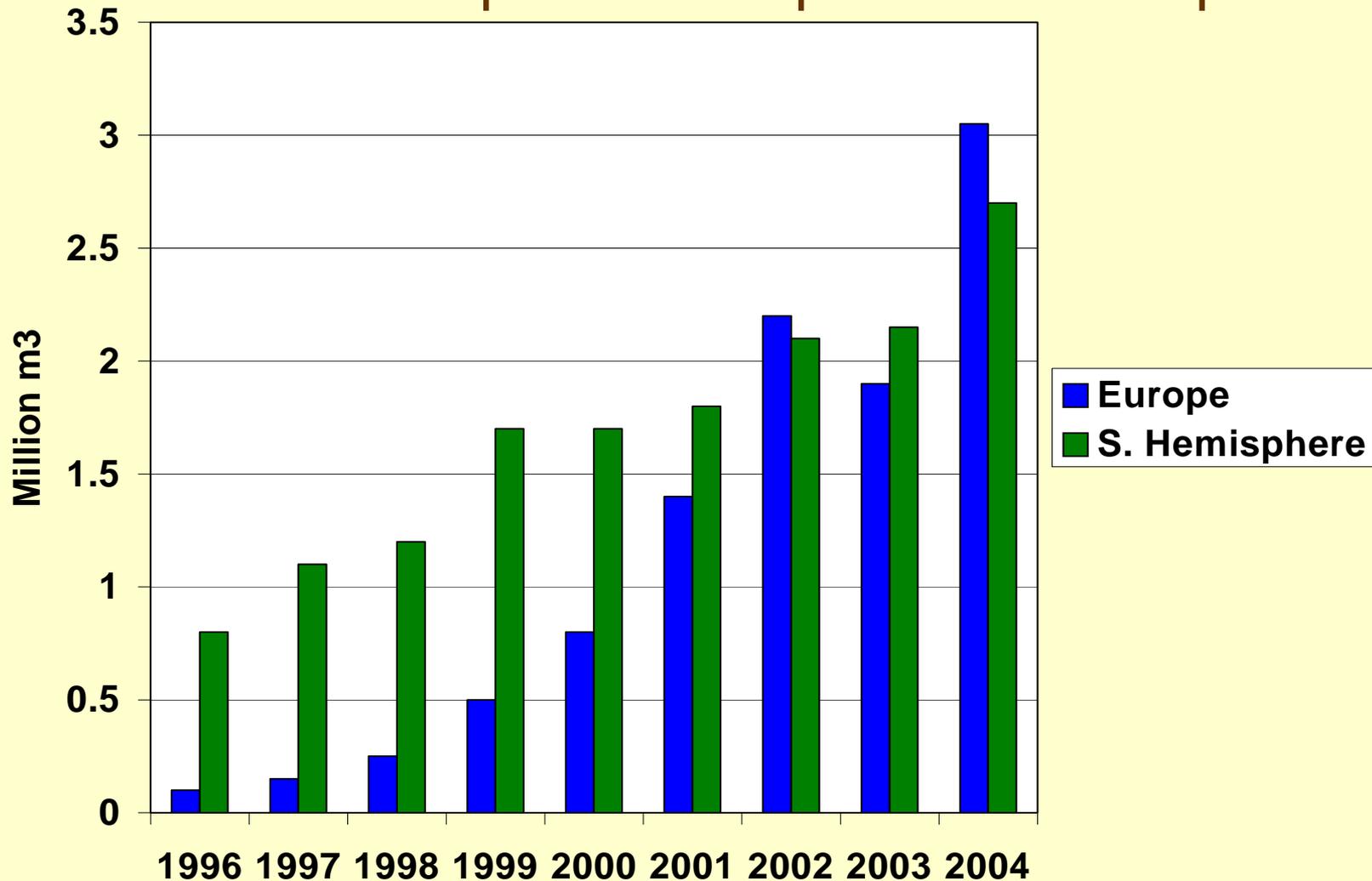


Source: UNECE Timber Committee forecasts, 10.2004





US sawnwood imports: Europe & S. Hemisphere



Sources: USDA-Foreign Ag. Svc. and *Wood Markets Monthly*, 2005



US sawnwood imports: Europe & S. Hemisphere

- Excludes Canadian imports
 - 98% of US imports in '96, but 87% 2004
 - Canadian-sourced imports up 8% 2004
- Offshore exporters aided by Softwood Lumber Agreement duties
- Imports of dimension softwood, some EWPs
- European-sourced imports
 - Increased 52% in 2004
 - Despite 45% rise in euro value vs. \$
 - “Semi-natural forests” vs. plantation

Sources: USDA-Foreign Ag. Svc. and *Wood Markets Monthly*, 2005



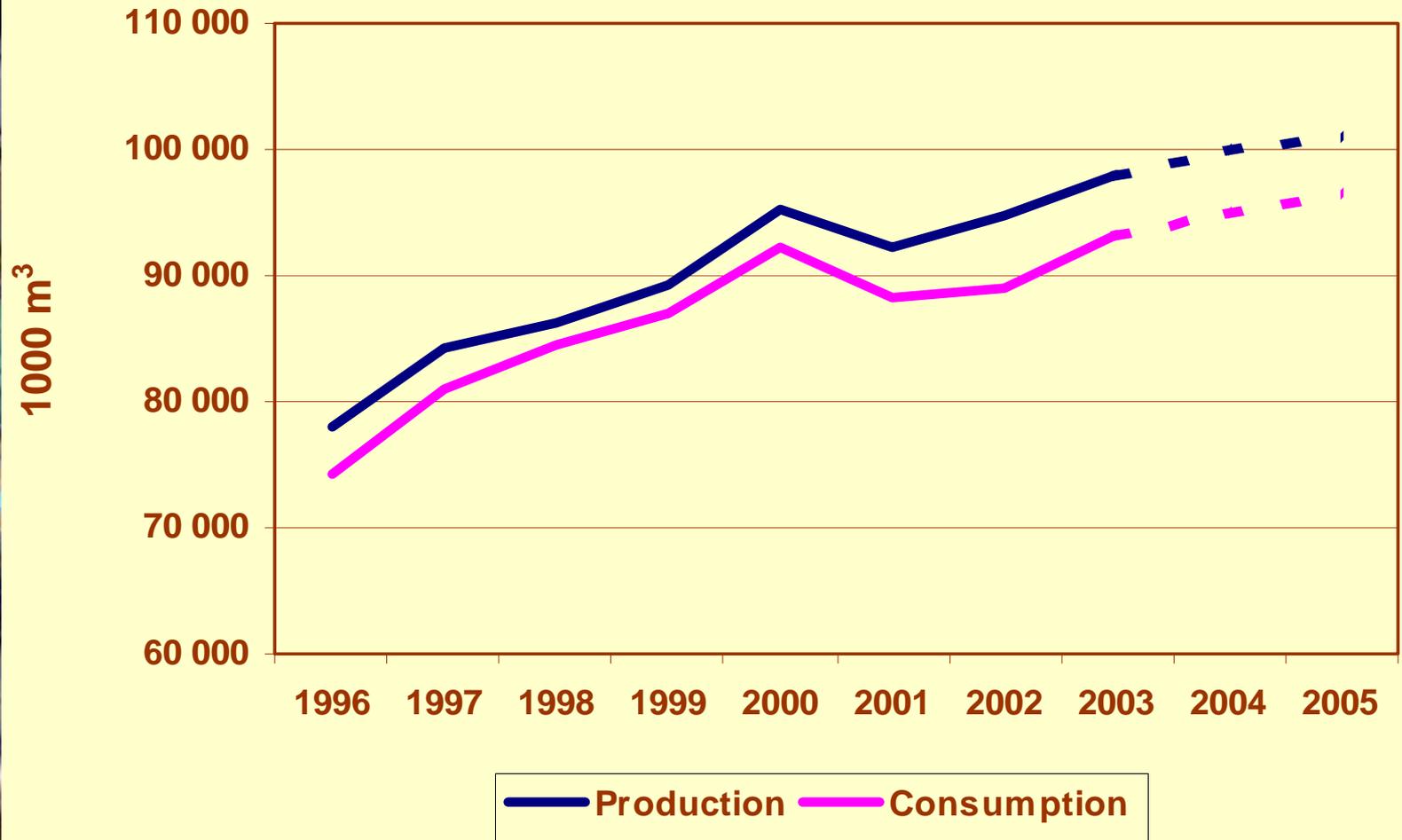
US sawnwood imports: Europe & S. Hemisphere

- Northern hemisphere sources in 2004
 1. Germany (up 73%)
 2. Austria (up 75%)
 3. Sweden (down 2%)
 4. Czech Rep., Lithuania, Russia, Finland, Estonia
- Southern hemisphere sources in 2004
 1. Brazil (up 37%)
 2. Chile (up 35%)
 3. New Zealand (down 3%)
 4. Argentina, Mexico, other

Sources: USDA-Foreign Ag. Svc. and *Wood Markets Monthly*, 2005



European sawn softwood market, 1996-2005



Source: UNECE Timber Committee forecasts, 10.2004

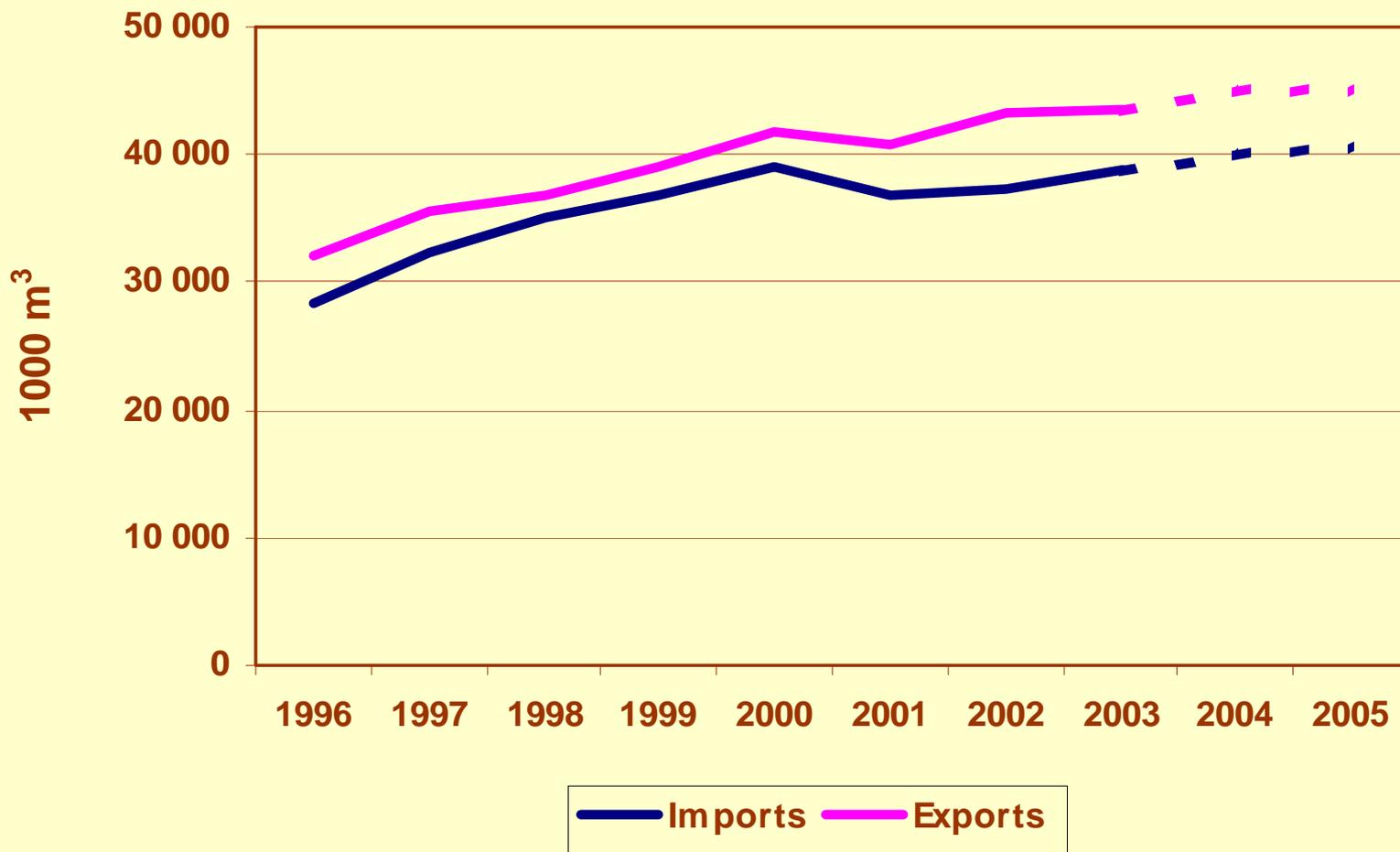


Capacity Building in Sharing Forest and Market Information
Prague & Krtiny, Czech Republic, 25 October 2005





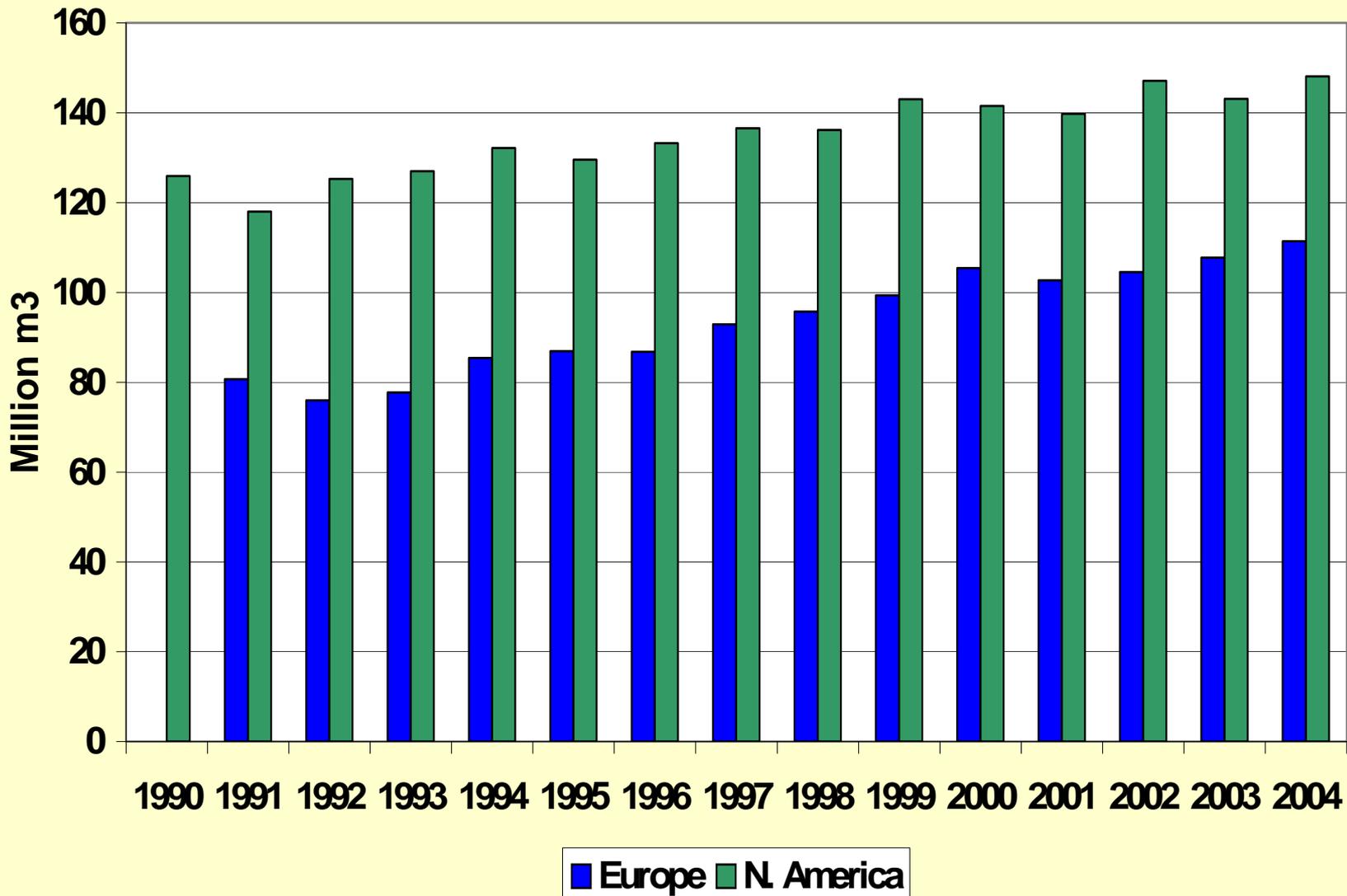
European sawn softwood trade, 1996-2005



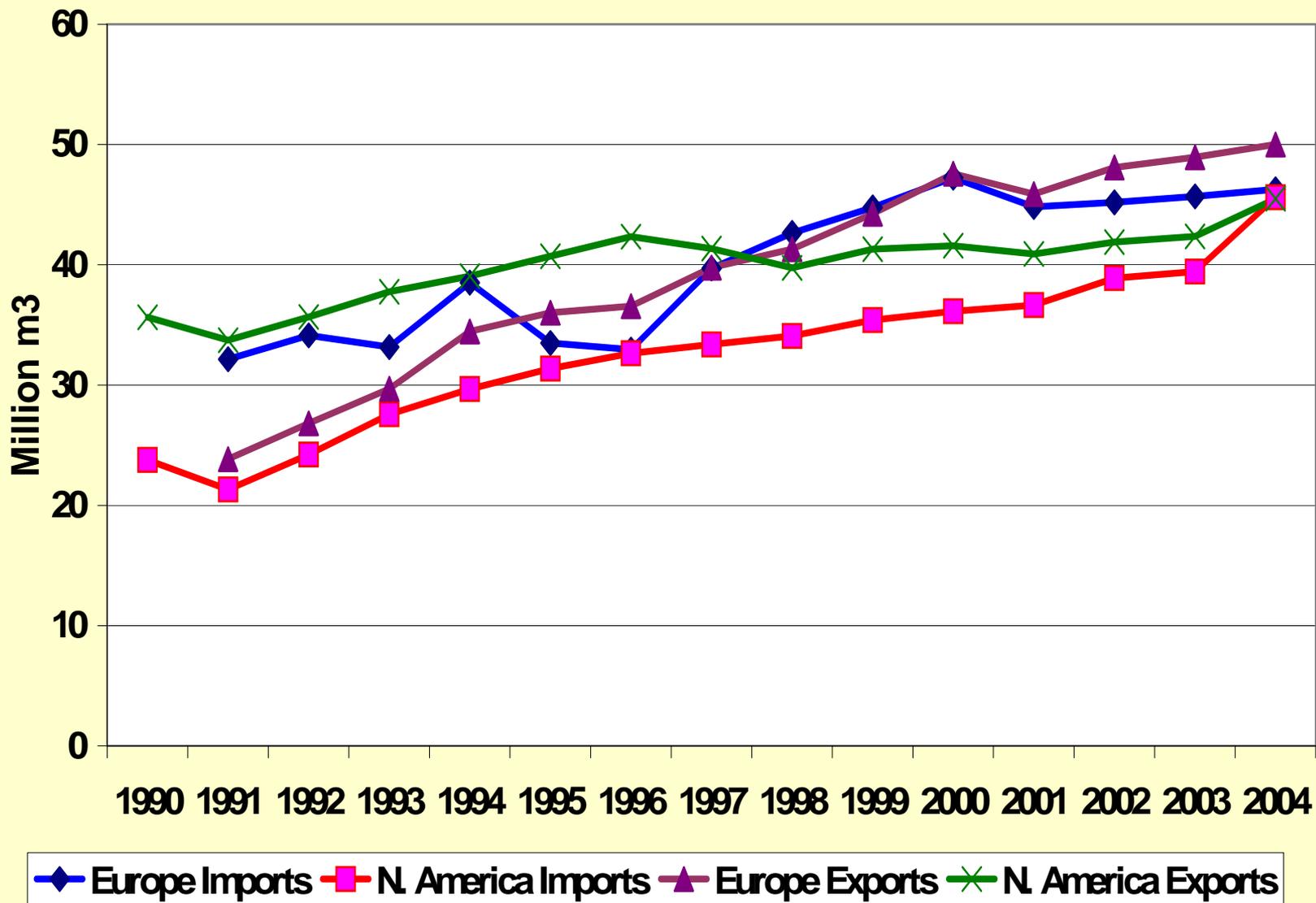
Source: UNECE Timber Committee forecasts, 10.2004



Sawnwood Production, 1990-2004

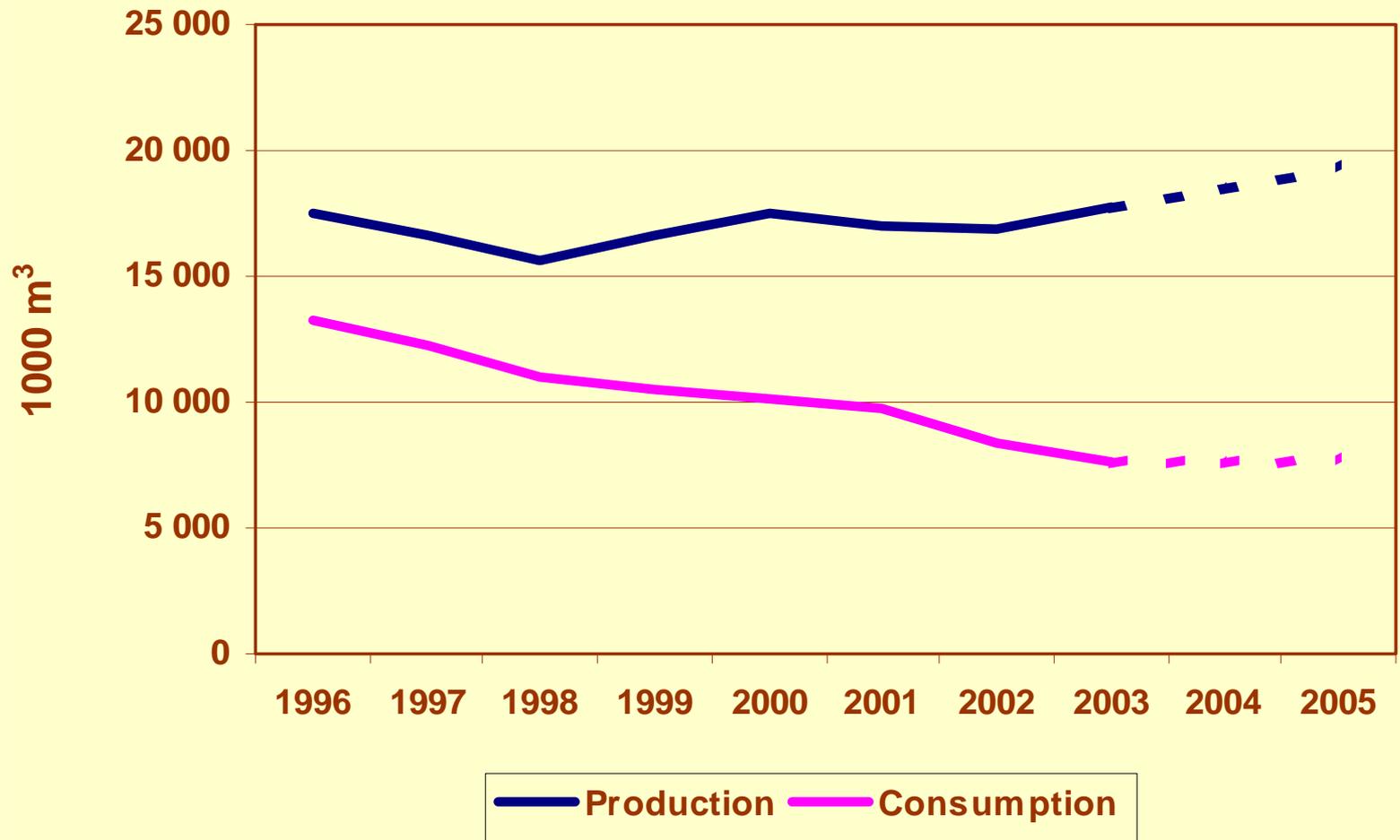


Sawnwood Trade, 1990-2004





Russian sawn softwood market, 1996-2005

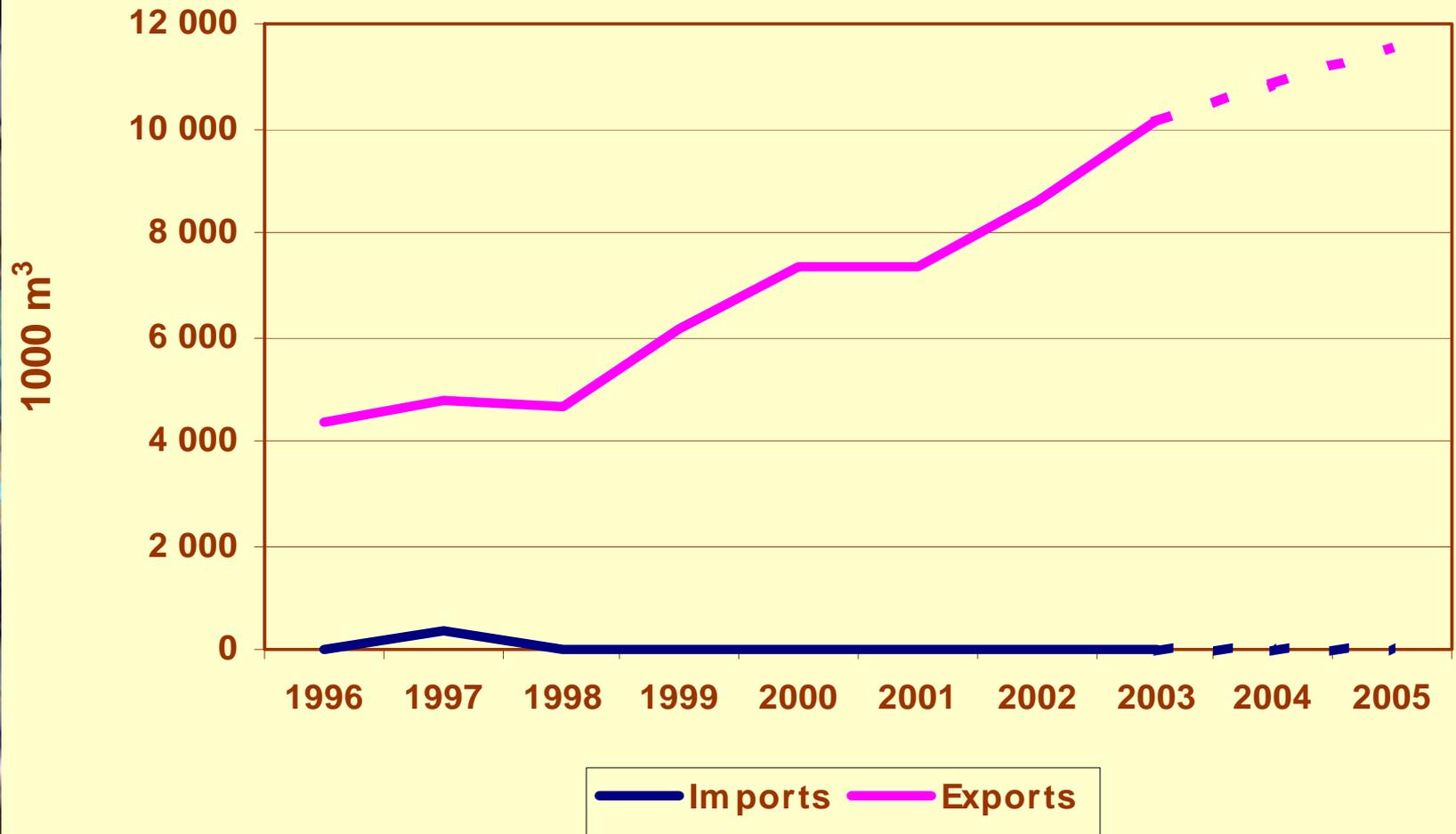


Source: UNECE Timber Committee forecasts, 10.2004





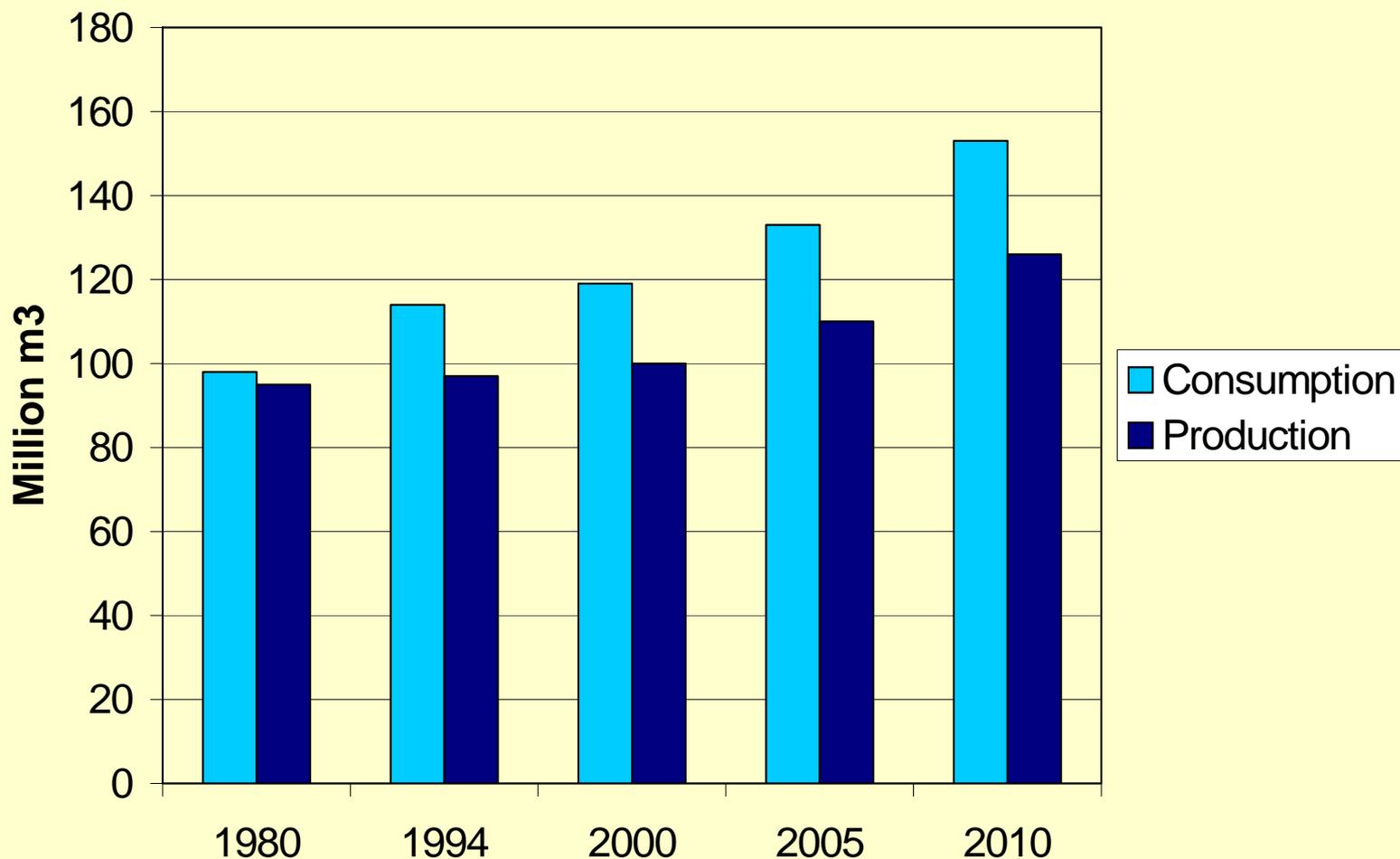
Russian sawn softwood trade, 1996-2005



Source: UNECE Timber Committee forecasts, 10.2004



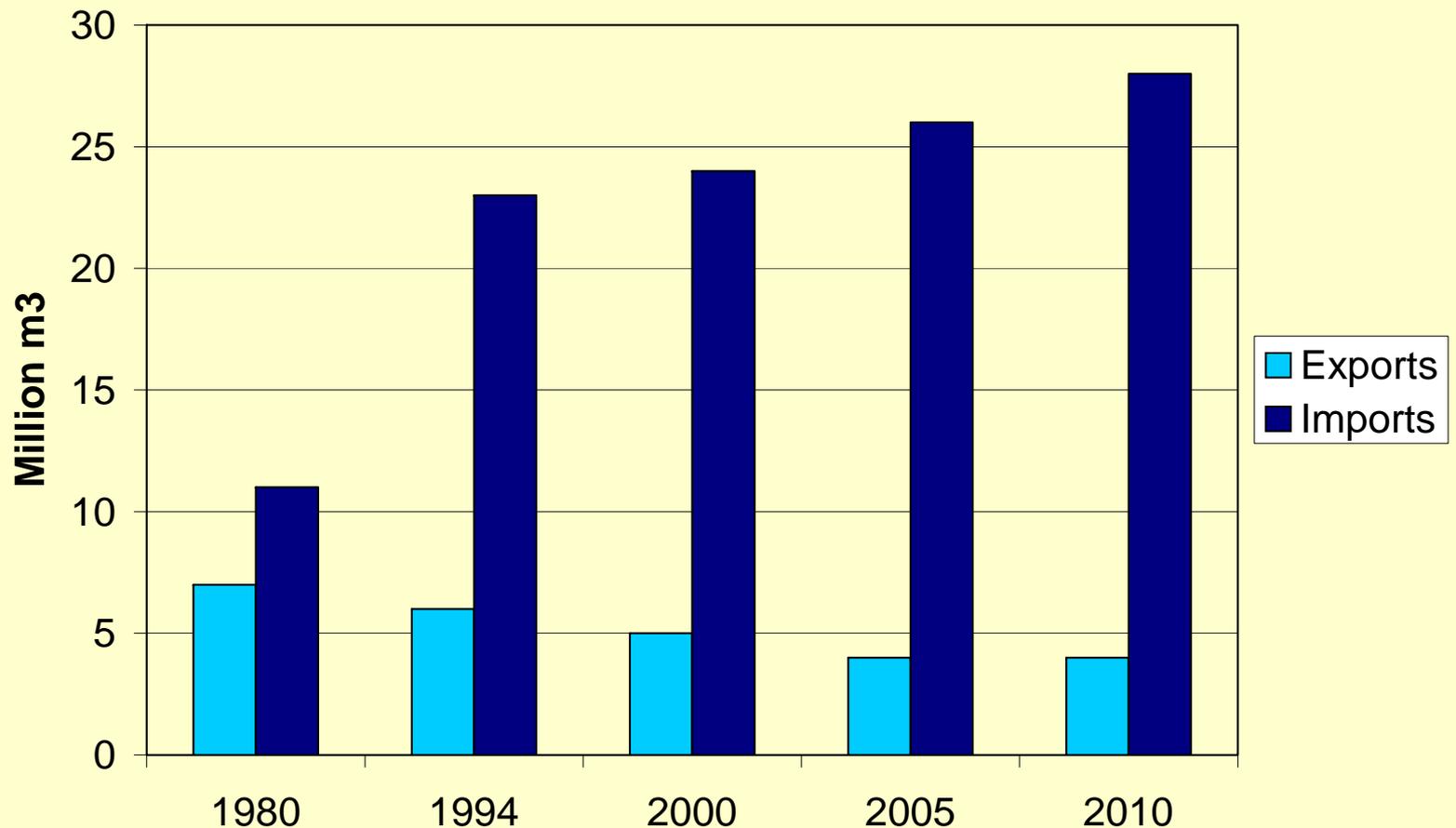
Asia sawnwood production and consumption to 2010



Source: *Global Forest Products Model, 2003*



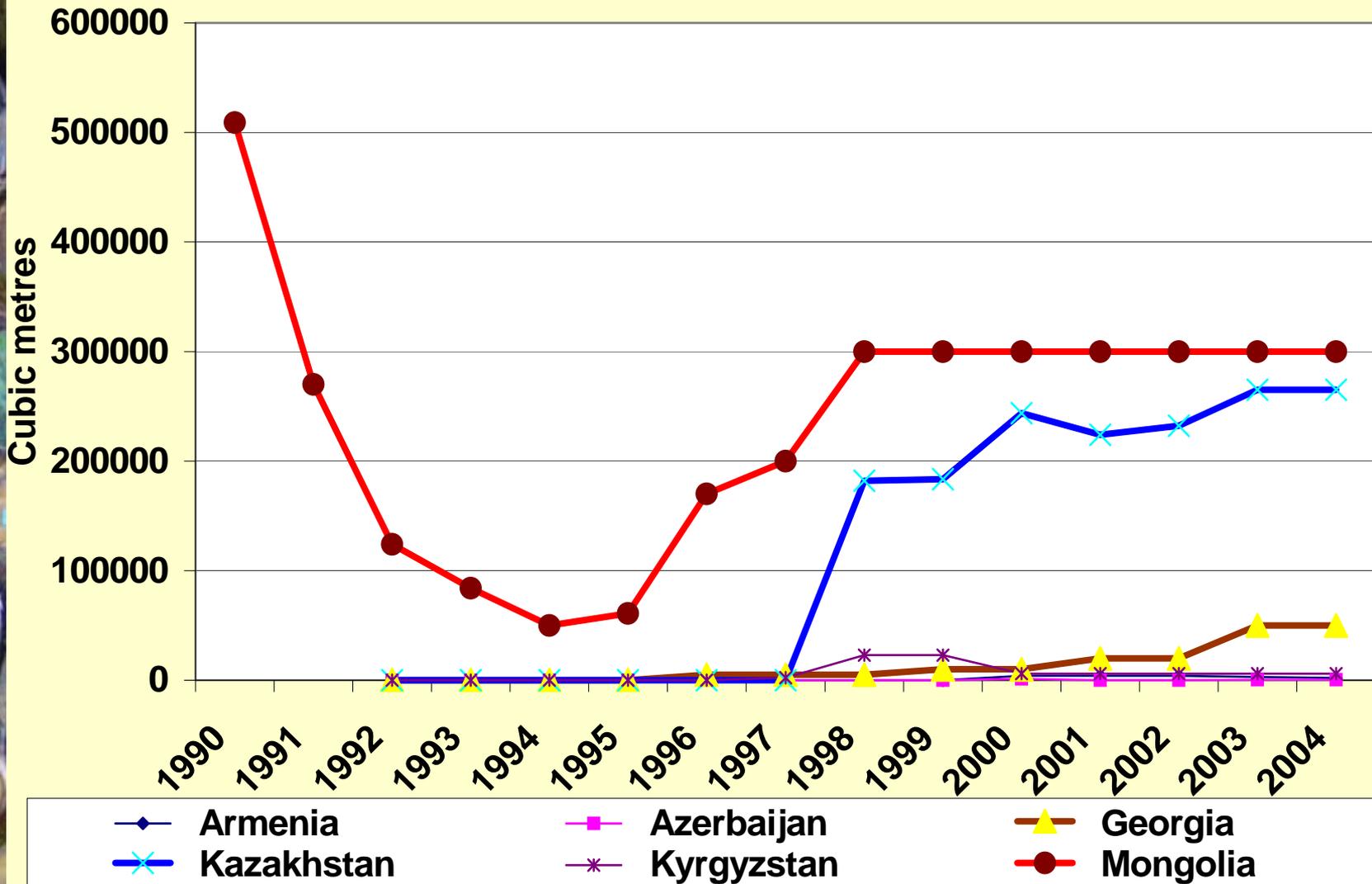
Asia sawnwood trade to 2010



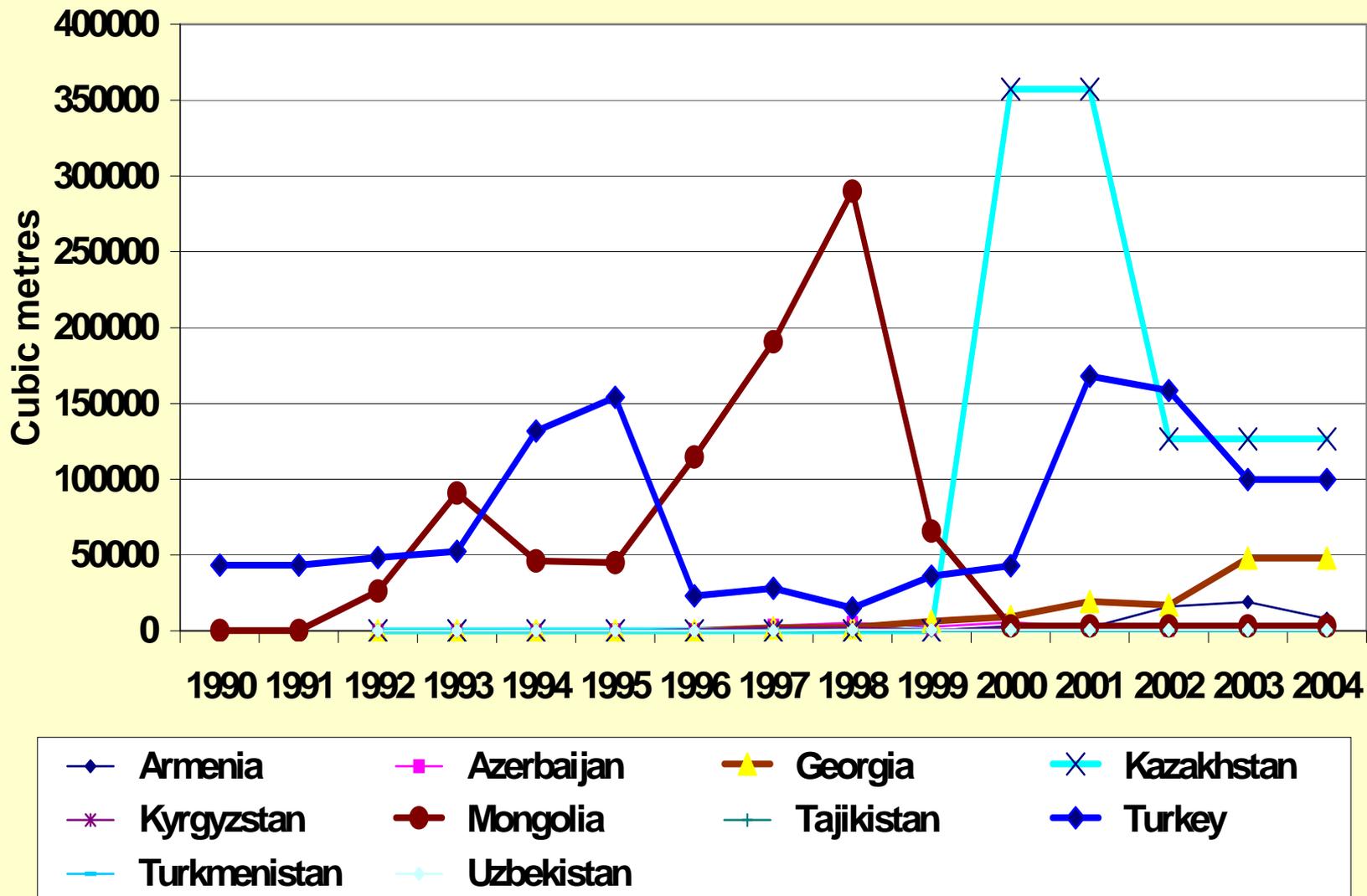
Source: *Global Forest Products Model, 2003*



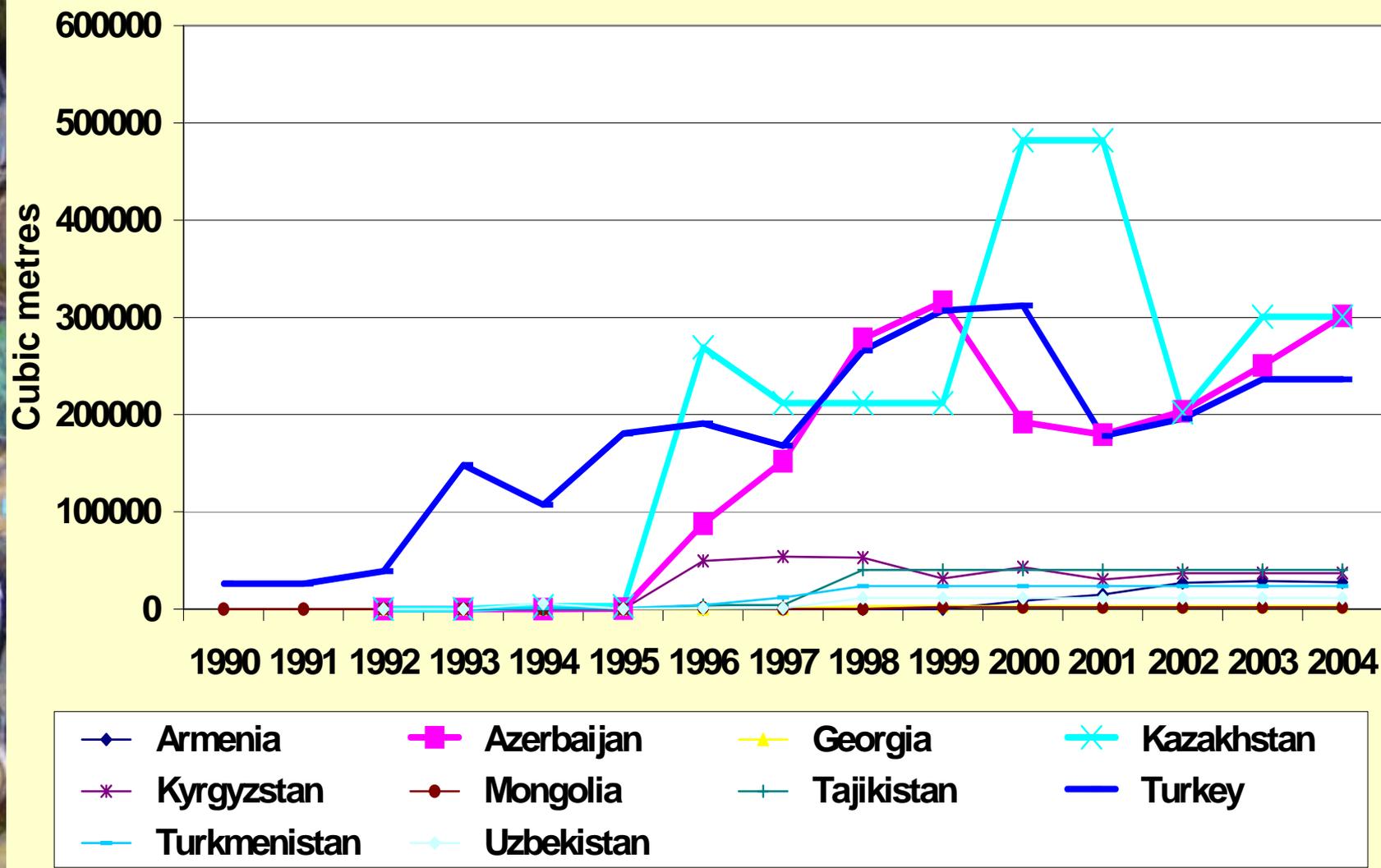
Sawnwood Production, 1990-2004



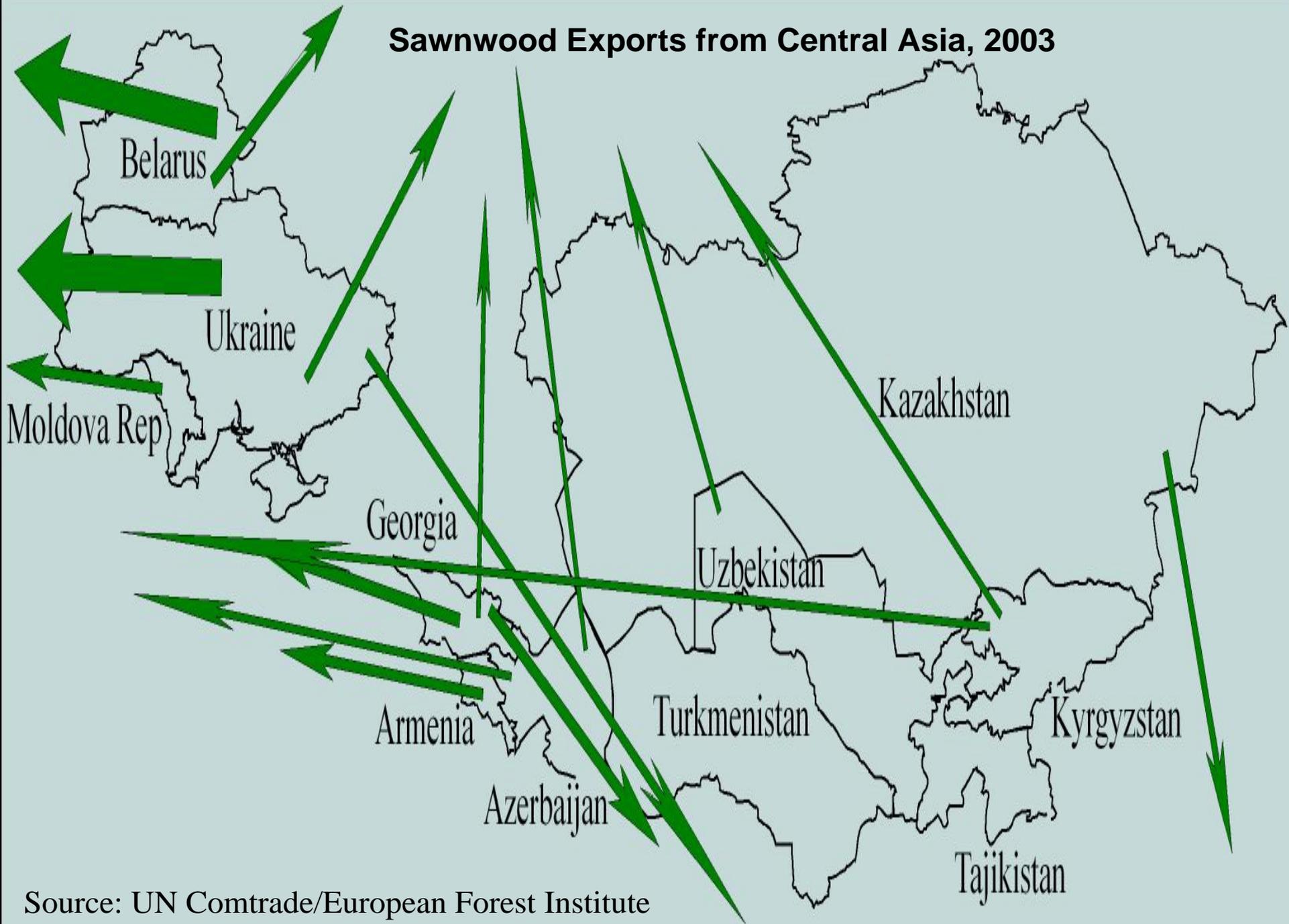
Sawnwood Exports, 1990-2004



Sawnwood Imports, 1990-2004

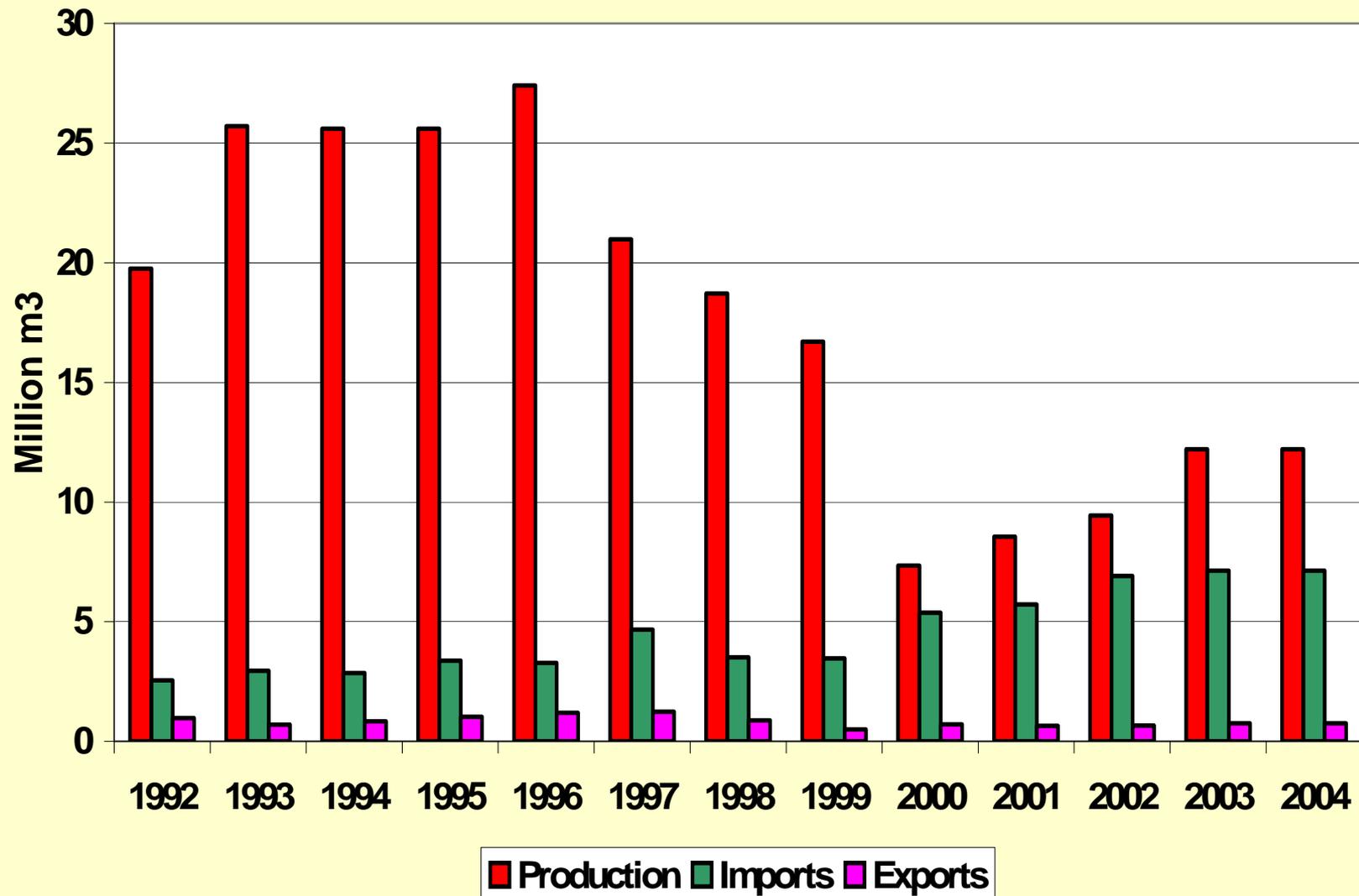


Sawnwood Exports from Central Asia, 2003



Source: UN Comtrade/European Forest Institute

China's Sawnwood Market, 1992-2004





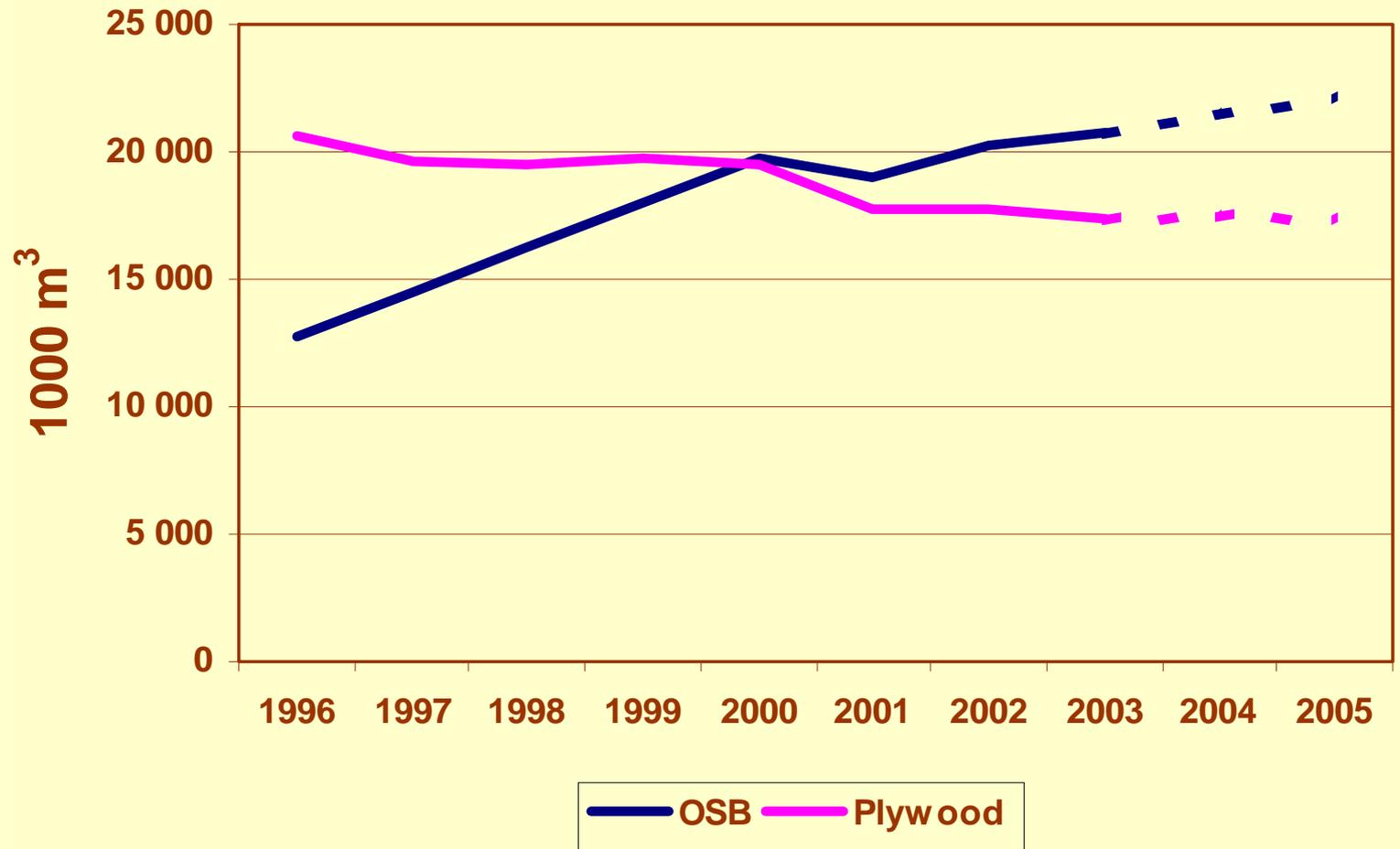
Sectoral analysis: Panels



Capacity Building in Sharing Forest and Market Information
Prague & Krtiny, Czech Republic, 25 October 2005



North America structural panel production, 1996-2005



Source: UNECE Timber Committee forecasts, 10.2004

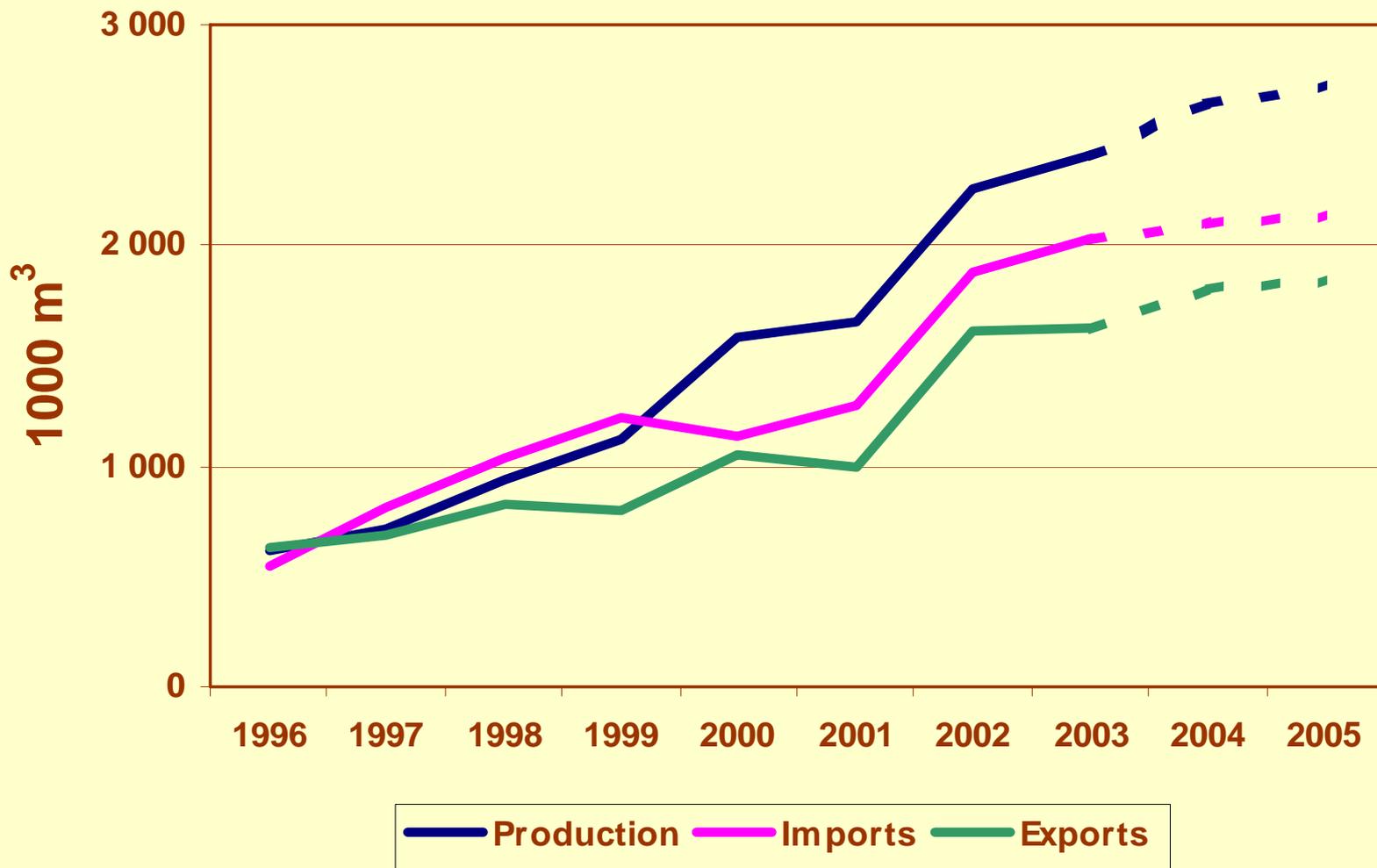


Capacity Building in Sharing Forest and Market Information
Prague & Krtiny, Czech Republic, 25 October 2005





European OSB market, 1996-2005



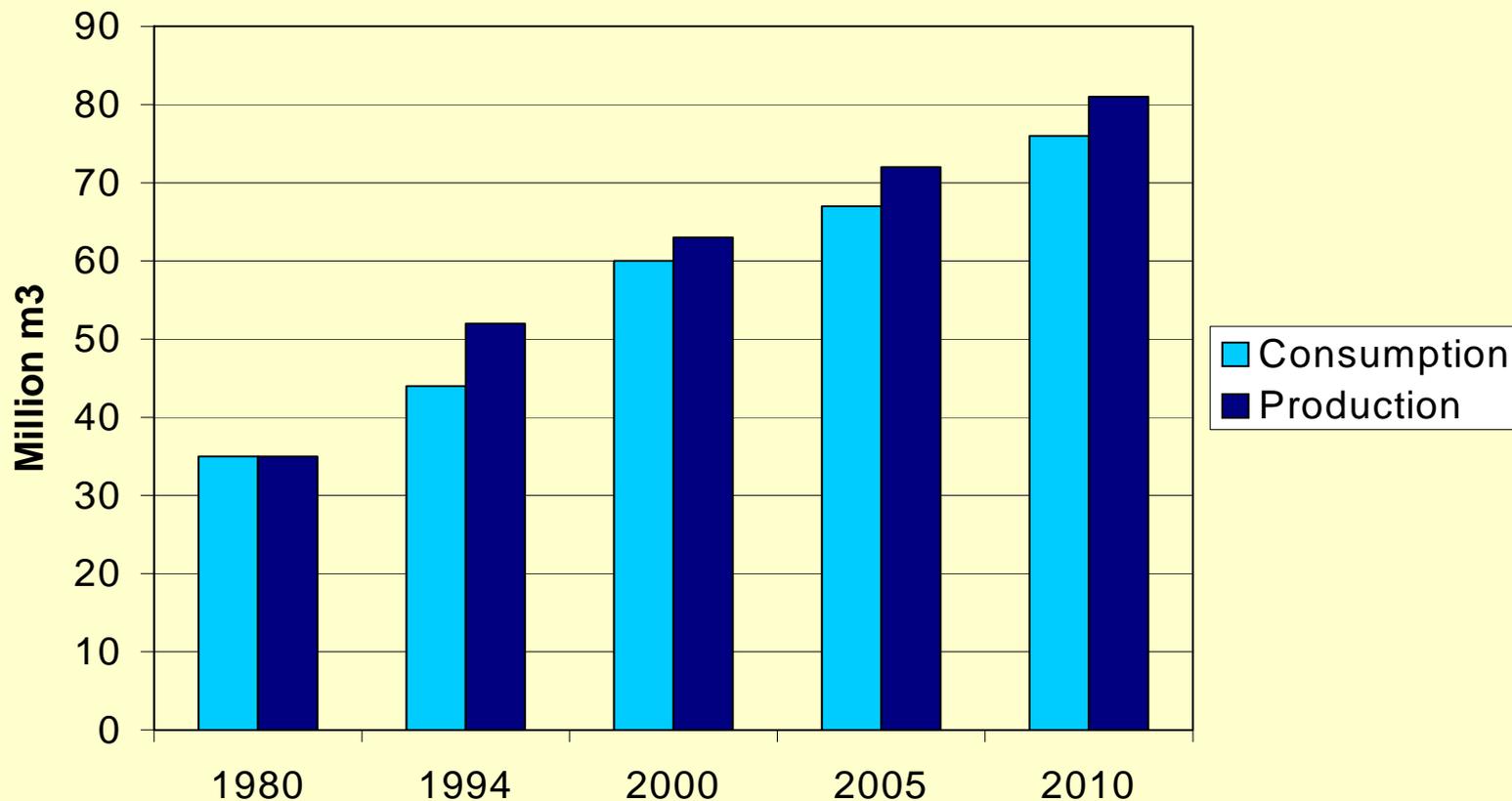
Source: UNECE Timber Committee forecasts, 10.2004



Capacity Building in Sharing Forest and Market Information
Prague & Krtiny, Czech Republic, 25 October 2005



America panel consumption & production to 2010



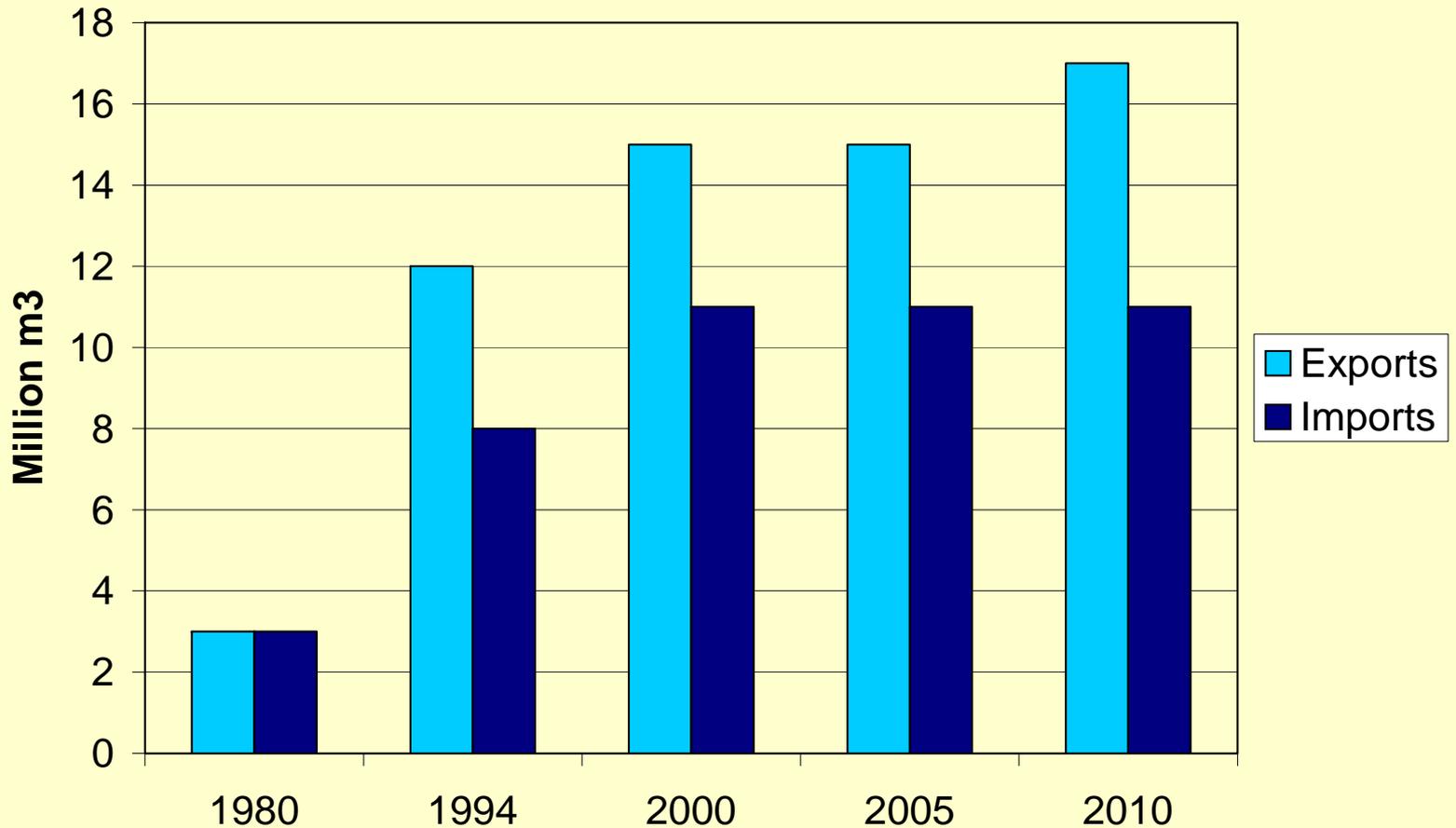
Source: *Global Forest Products Model, 2003*



Capacity Building in Sharing Forest and Market Information
Prague & Krtiny, Czech Republic, 25 October 2005



America panel trade to 2010



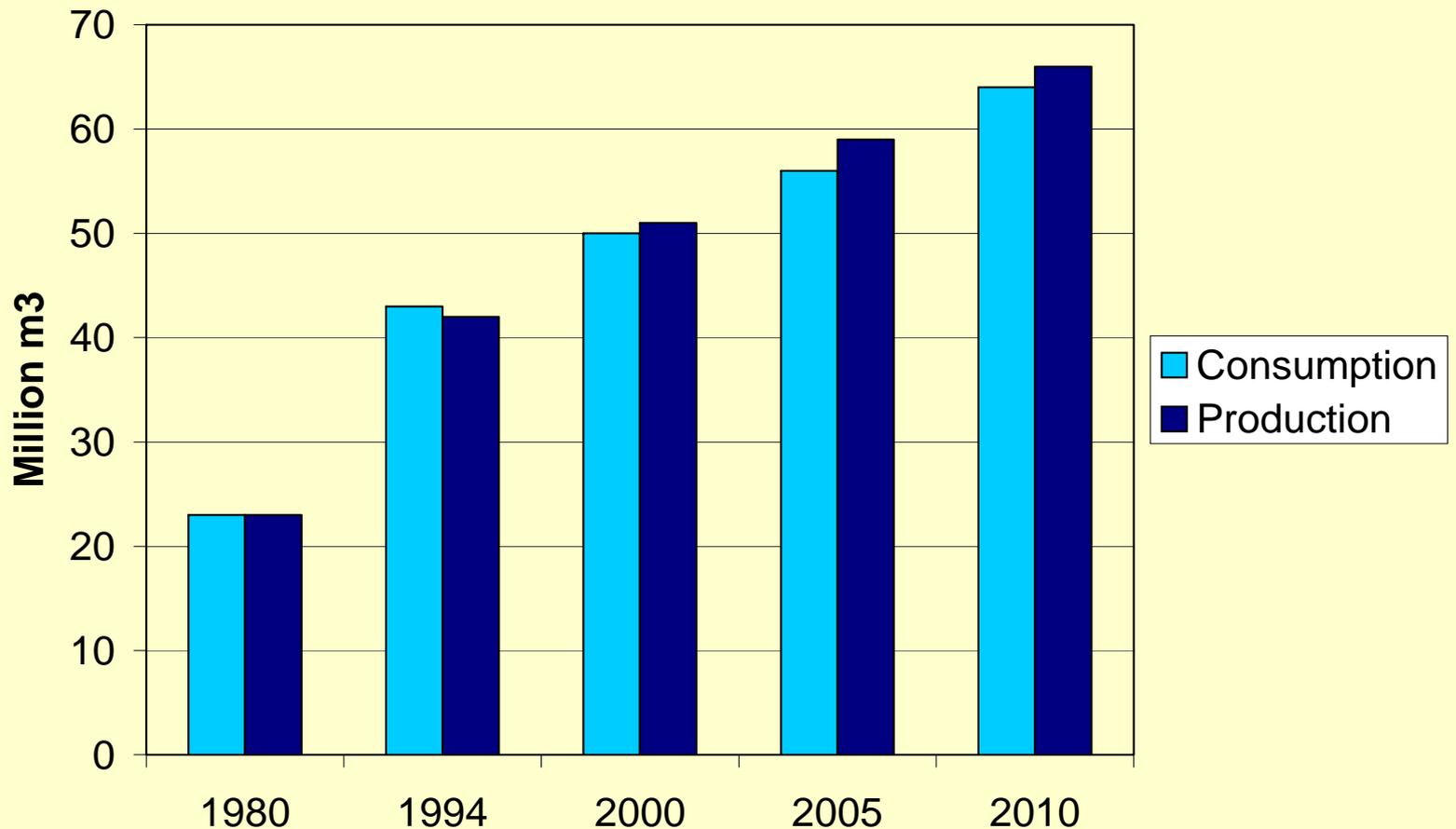
Source: *Global Forest Products Model, 2003*



Capacity Building in Sharing Forest and Market Information
Prague & Krtiny, Czech Republic, 25 October 2005



Europe panel consumption & production to 2010



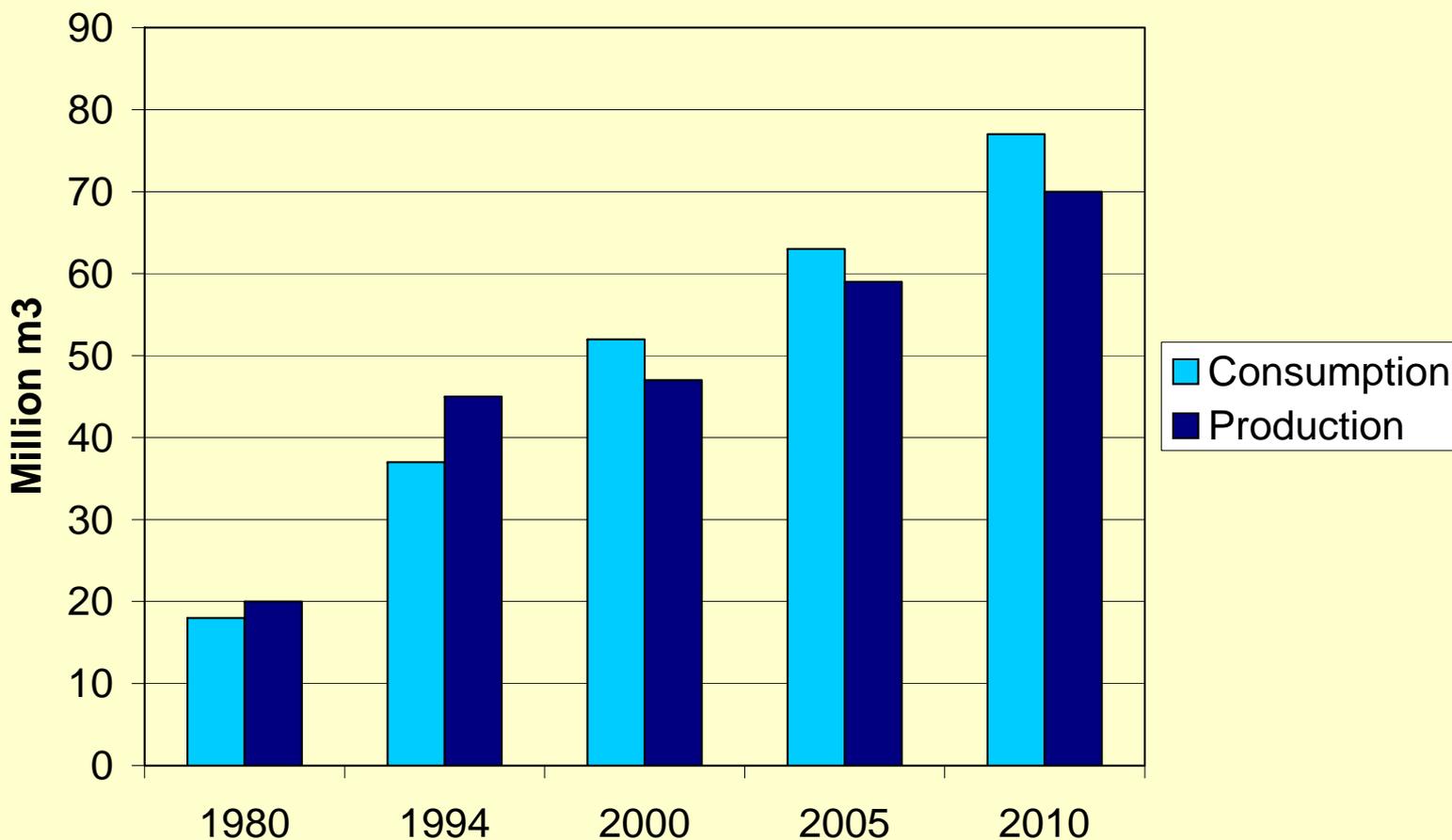
Source: *Global Forest Products Model, 2003*



Capacity Building in Sharing Forest and Market Information
Prague & Krtiny, Czech Republic, 25 October 2005



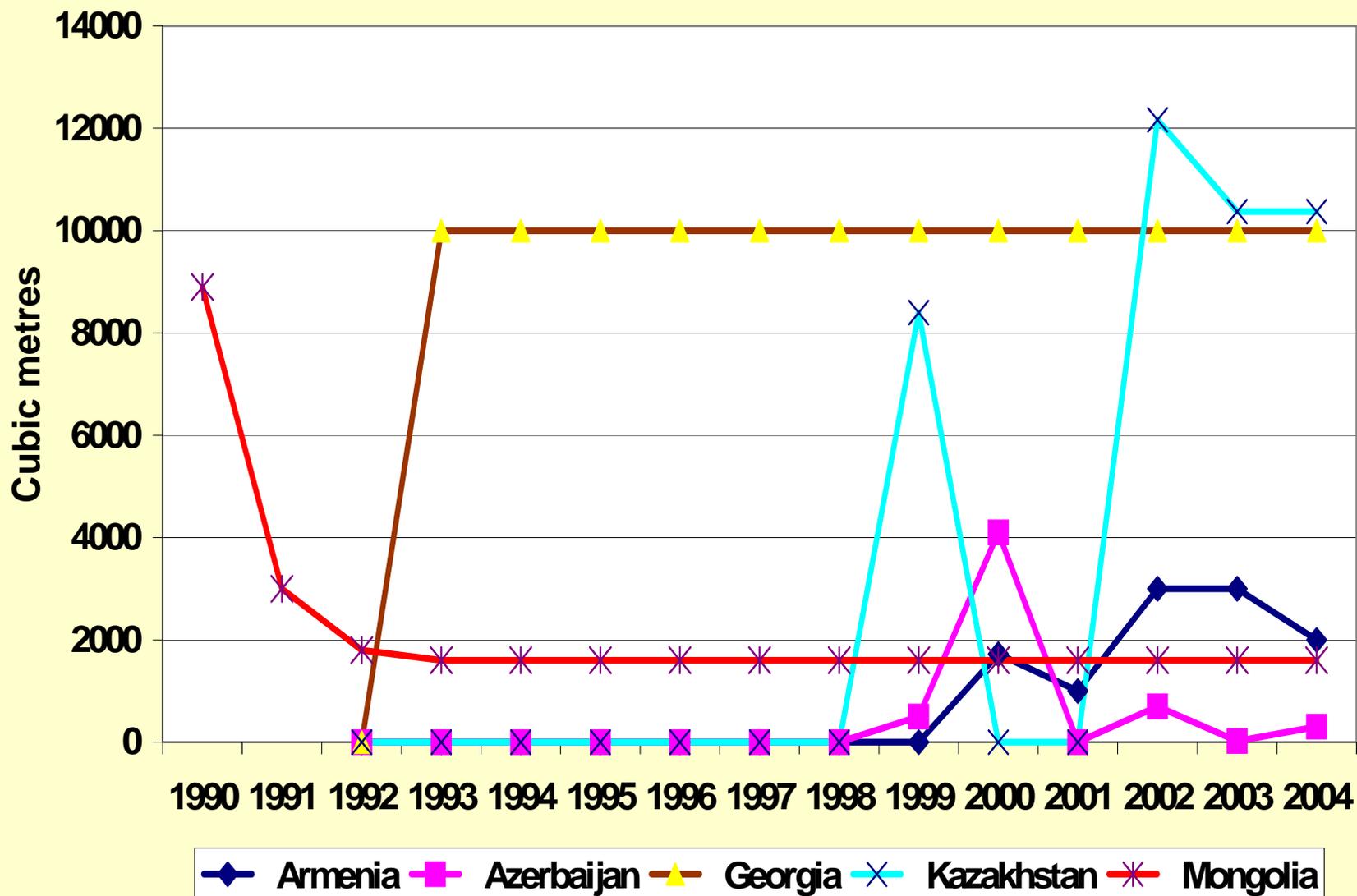
Asia panel consumption & production to 2010



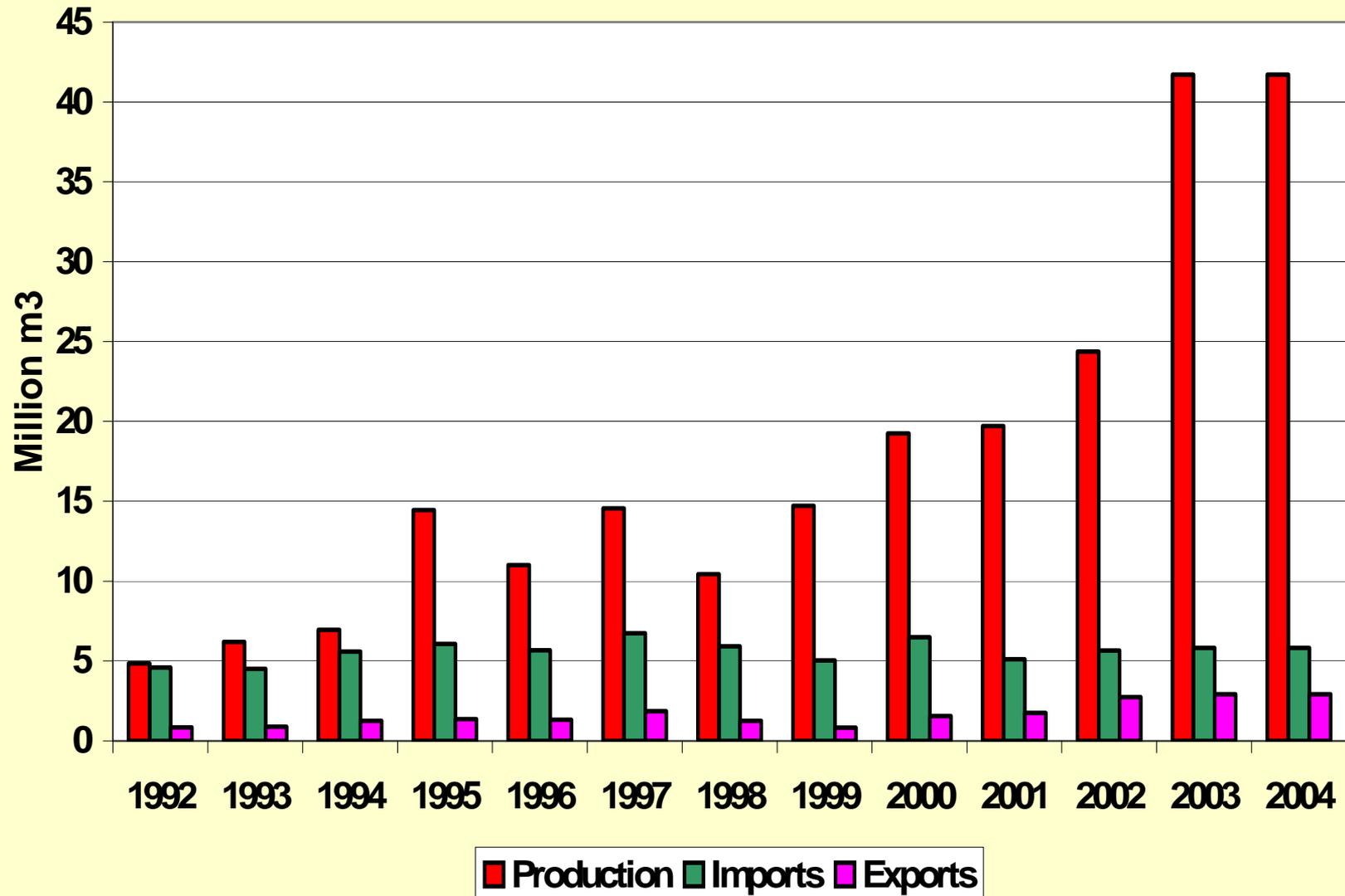
Source: *Global Forest Products Model, 2003*



Panels Production, 1990-2004



China's Panel Market, 1992-2004



Capacity Building in Sharing Forest and Market Information
Prague & Krtiny, Czech Republic, 25 October 2005



A vertical strip on the left side of the slide shows a stack of cut logs, with the circular ends of the logs visible. The logs are stacked in a way that shows their natural texture and color, ranging from light brown to dark brown.

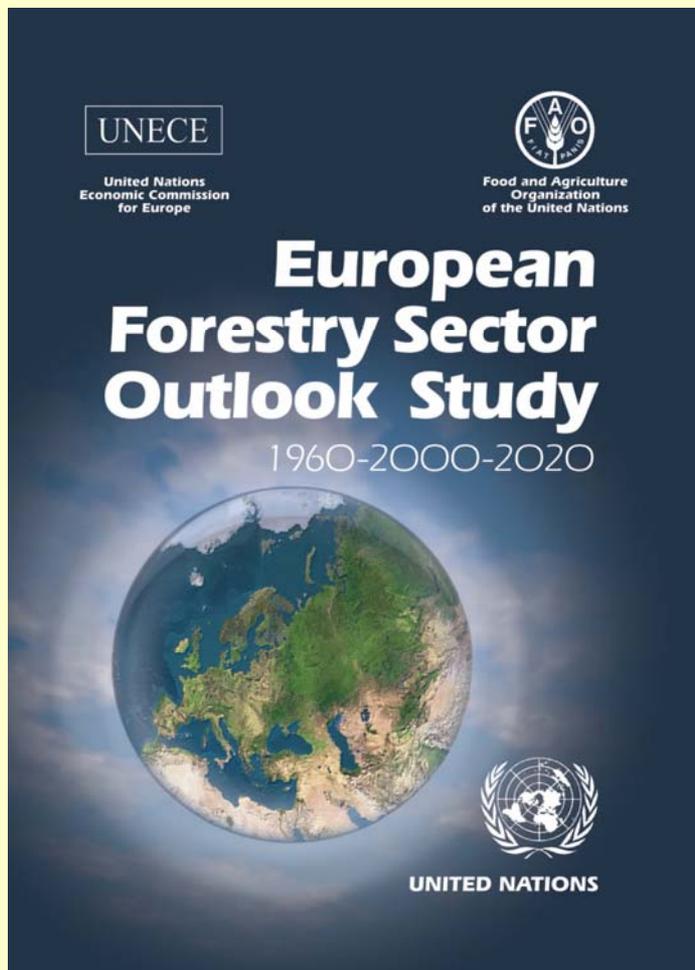
China's booming timber imports

- Housing construction
 - Only minority wood-based
 - Green and healthy communities
 - Affordable
- Renovation market for houses and municipal
- Infrastructure development
- Interior woodwork and furnishings
- Olympic-related construction (2008 Beijing)

Source: "China Forest Products Market Information", 2003



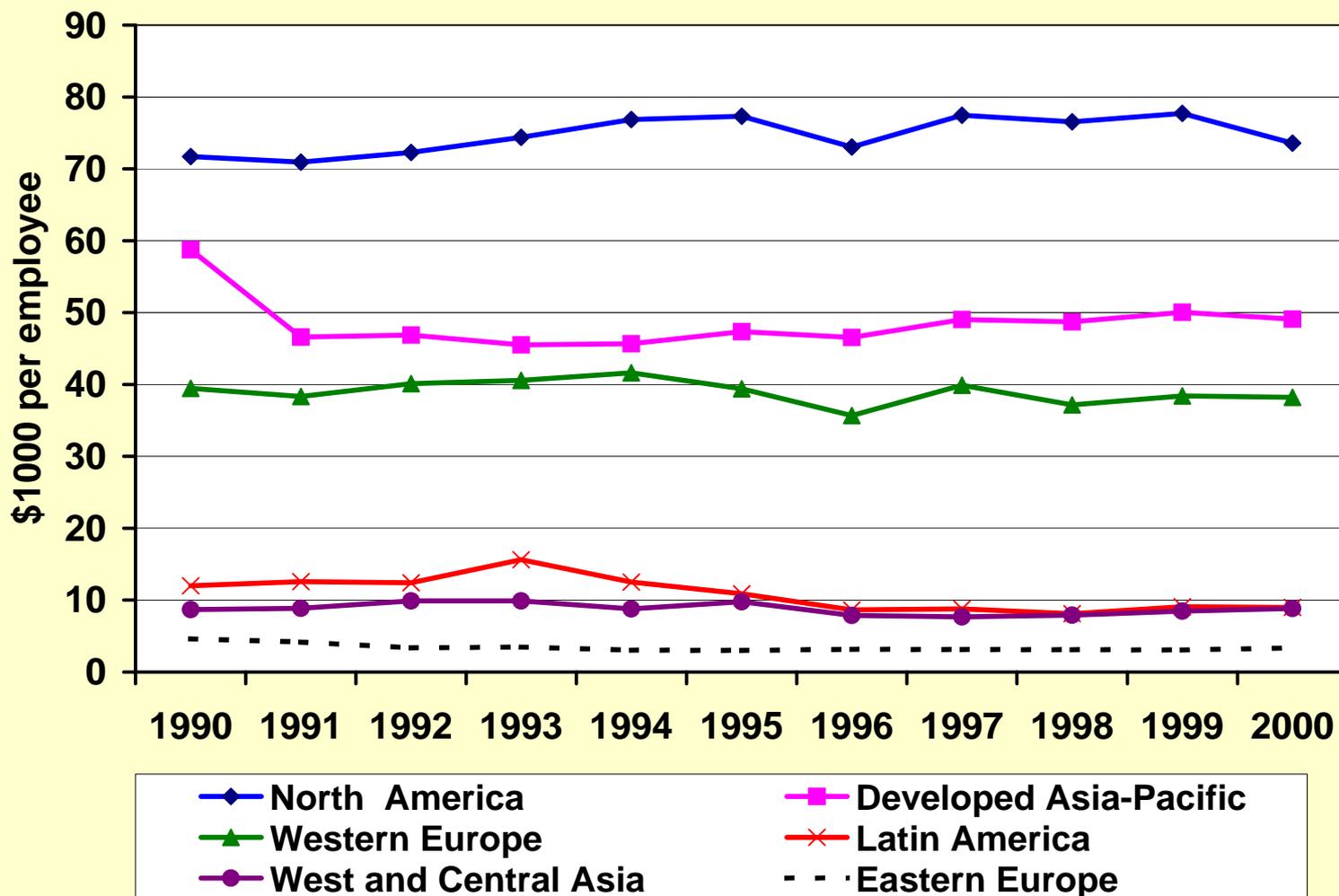
New EFSOS market conclusions



- Collapse in CIS and eastern Europe, 1990s
- Partial recovery
- Increased small log demand
- Increased recovered materials
- Intensifying trade
- Declining log prices
- Renewable energy



Productivity in wood industry by region



Source: *FAO Trends and current status of the contribution of the forestry sector to national economies, 2004*



Capacity Building in Sharing Forest and Market Information
Prague & Krtiny, Czech Republic, 25 October 2005



Summary: Key market issues

- Forest law enforcement, governance and trade (illegal logging and trade of illegally sourced products)
- Forest sector development policies
- Policies for promoting use of sustainably produced products
- Climate change policies
- Wood energy policy
- Trade policy, tariff and non-tariff barriers

Source: *Forest Products Annual Market Review, 2004-2005*





II. Certified forest products markets



Capacity Building in Sharing Forest and Market Information
Prague & Krtiny, Czech Republic, 25 October 2005



A vertical strip on the left side of the slide shows a stack of cut logs, with some blue markings on the wood.

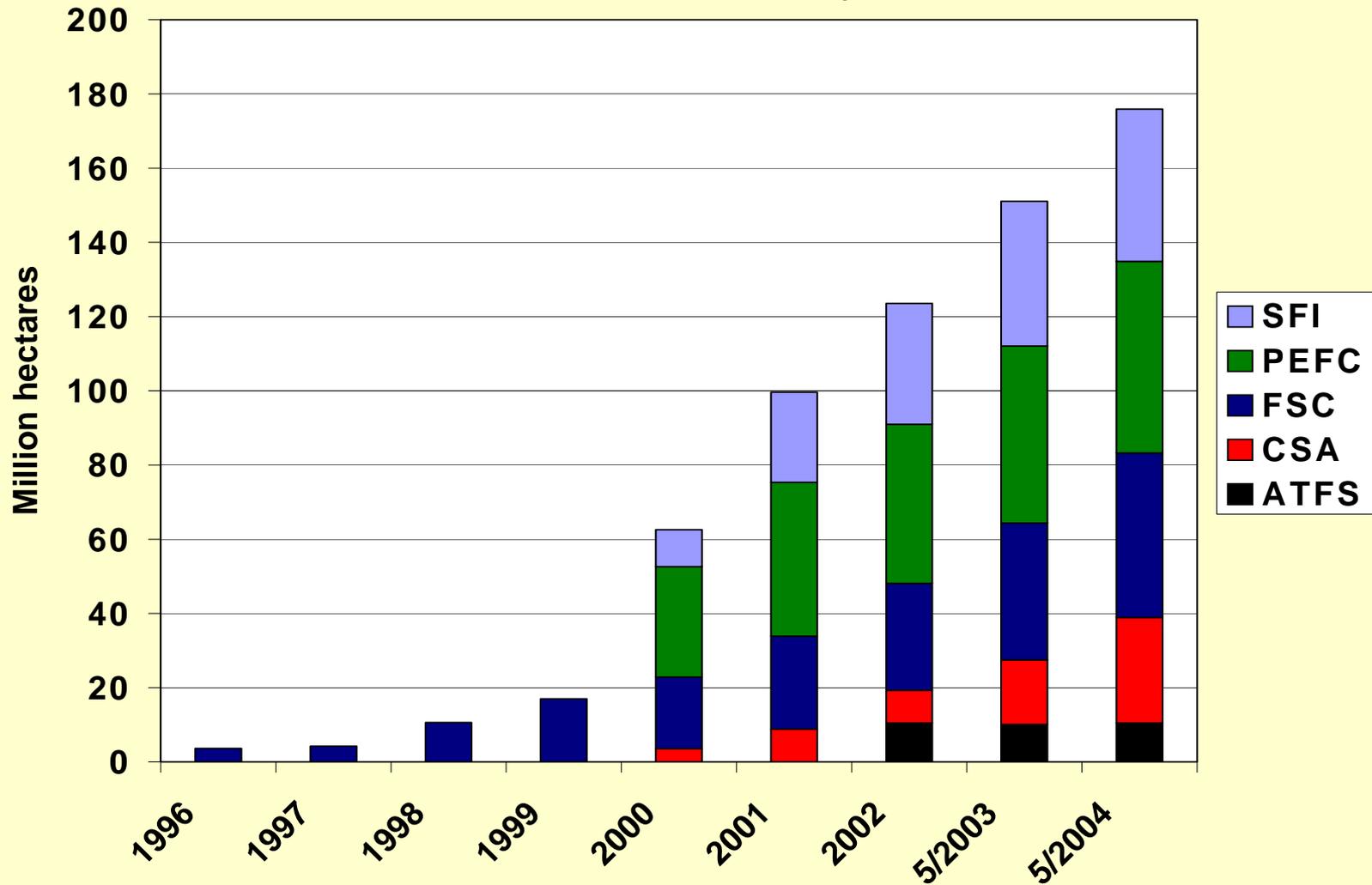
Certification of sustainable forest management

- Over 250 million hectares worldwide (6%)
- Over half of world's certified area in N. America
- Another 40% in Europe
- Only 1% in tropical forests





Area of certified forests, 1996-2004



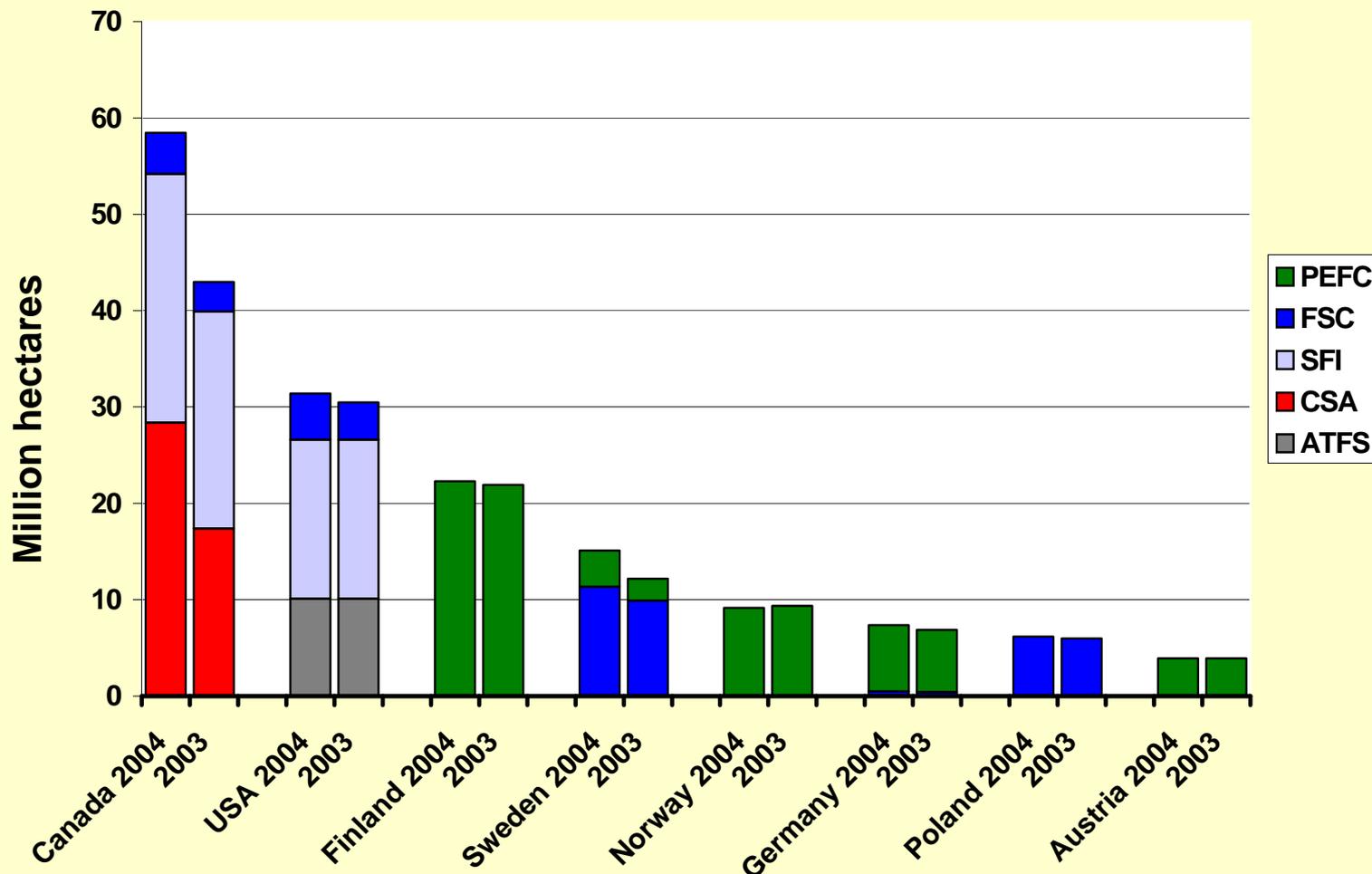
Source: *Forest Products Annual Market Review, 2003-2004*



Capacity Building in Sharing Forest and Market Information
Prague & Krtiny, Czech Republic, 25 October 2005



Top 8 countries certified forest area, 2003 and 2004



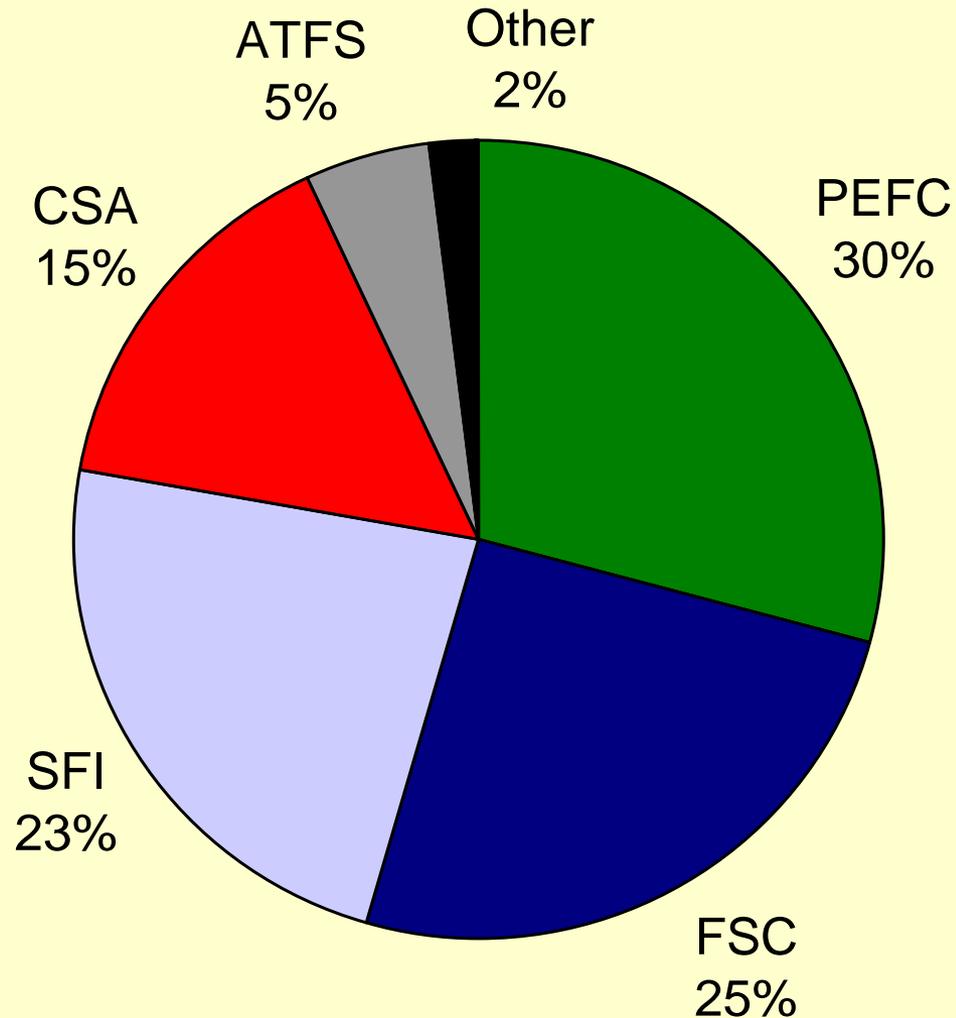
Source: Forest Products Annual Market Review, 2003-2004



Capacity Building in Sharing Forest and Market Information
Prague & Krtiny, Czech Republic, 25 October 2005



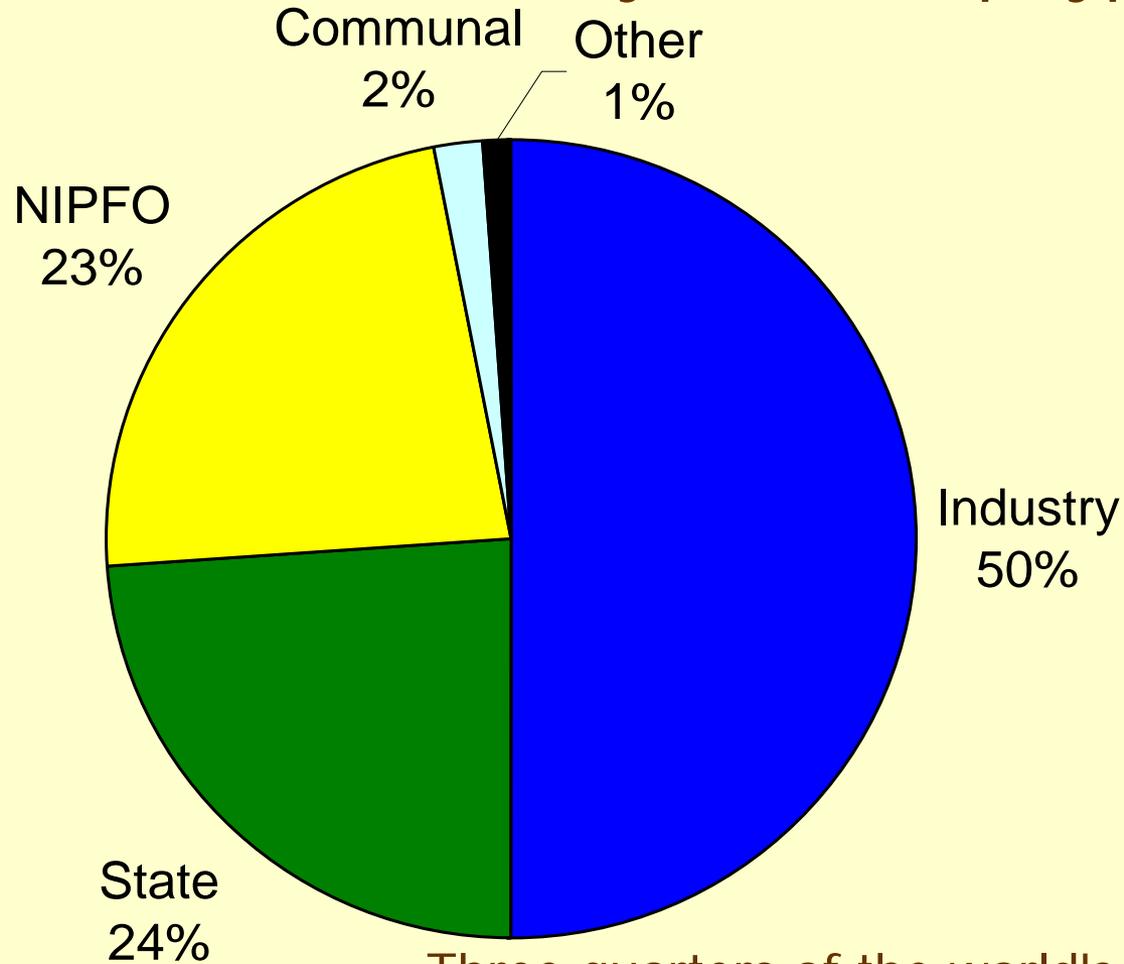
Certification schemes' market share



Source: *Forest Products Annual Market Review, 2003-2004*



Certified forests by ownership type



Three quarters of the world's certified forests are privately owned or managed

Source: Savcore Indufor, 2005



Certified forest products markets

- Growing demand via wholesalers & retailers
- Demand boost by government procurement
- Private consumer demand remains minor
- Chain-of-custody key current development
- Most certified timber sold without label
 - Potential over 300 million m³ (20% world roundwood production)
 - Lost opportunities for market promotion and PR

Source: *Forest Products Annual Market Review, 2003-2004*



Capacity Building in Sharing Forest and Market Information
Prague & Krtiny, Czech Republic, 25 October 2005



Certified forest products markets

- Certification system conflicts discredit forest products in the marketplace
- Variety of schemes necessary for different stakeholders' interests
- Impacts of forest certification locally significant
- Difficulties in certifying natural tropical forests, but less so for tropical plantations
- Markets developing slower than forest certification

Source: Savcor Indufor, 2005



Certification

- Introduced to combat deforestation in tropics
- Most certified forests are temperate & boreal
- Therefore, not an instrument to combat deforestation, but to promote sustainable forest management
- Mutual recognition between schemes an issue
- Potential additional roles
 - Verification mechanism in Kyoto Protocol
 - Indication of source, but not proof of legality

Sources: Savcor Indufor, and UNECE/FAO, 2005





III. Need for international forest products market information



Capitalizing on market opportunities

- Domestic market
 - Current needs
 - Developing demand for wood products
 - Or in low-forest countries, for non-wood goods and services
 - Information for government, trade associations, forestland owner associations, industry
- Export markets
 - Increasing imports in developed countries (example: USA)
 - Increasing imports in China, next India
 - Usually higher profitability than domestic, CIS market
 - Attracting foreign investment



Policy interactions

- Developing new policies to support forest sector
 - Forestland management
 - Infrastructure and institutions
 - Restitution of private land, and new private forestland owners and their associations
 - Market development (domestic and export)
- Monitoring policy effectiveness
- Trade association policies too



Forest resource interactions

- Country's current forest
 - What is its market potential
 - Wood products
 - Non-wood products
 - Services (watershed protection, recreation, eco-tourism, hunting & fishing)
- Planning forest management for future markets
 - What species are needed?
 - For fibre, pulpwood or logs?
- Resource is global, transportable





Discussion and Questions



8 9 2004



Capacity Building in Sharing Forest and Market Information
Prague & Krtiny, Czech Republic, 25 October 2005





Ed Pepke

Forest Products Marketing Specialist
UNECE/FAO Timber Branch
448 Palais des Nations
CH-1211 Geneva 10, Switzerland

Telephone +41 22 917 2872
Fax +41 22 917 0041
Ed.Pepke@unece.org
www.unece.org/trade/timber



Capacity Building in Sharing Forest and Market Information
Prague & Krtiny, Czech Republic, 25 October 2005

