

# Mobilization of Wood Resources

**Gero Becker**

**UNECE /FAO Policy Forum:  
What is the future of wood to meeting UNECE region's  
energy needs?**

**Geneva - Wednesday, October 10, 2007**



# Mobilization of Wood Resources

## The mobilization gap (example: Western Europe)

	2003	forecast 2010
industrial use of roundwood	270 Mio m <sup>3</sup>	+ 50 Mio m <sup>3</sup>
direct energy use of roundwood	160 Mio m <sup>3</sup>	+ 25 Mio m <sup>3</sup>
<b>total demand</b>	<b>430 Mio m<sup>3</sup></b>	<b>505 Mio m<sup>3</sup></b>
		(Annual net increment 2010: 505 Mio m <sup>3</sup> )

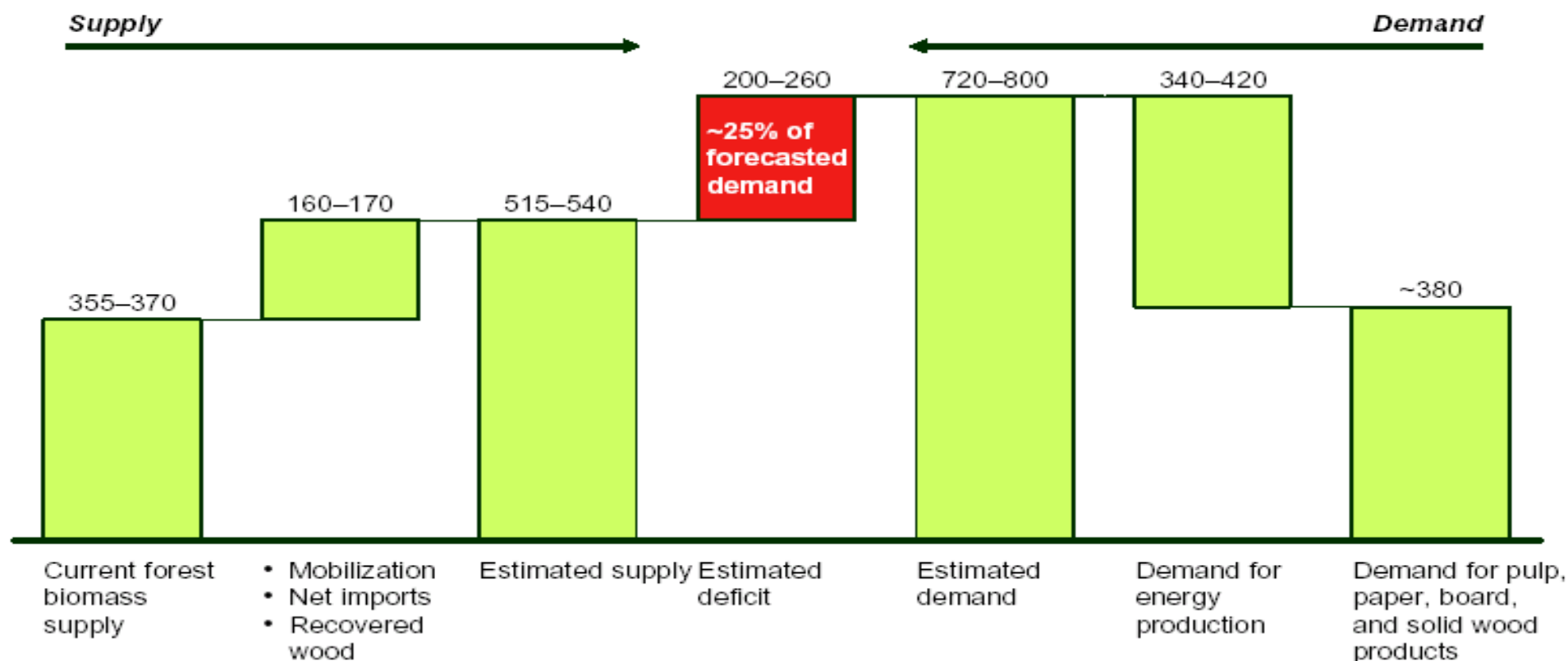
(Source K. Prins, Geneva 2007)

➔ **Mobilization gap: 75 Mio m<sup>3</sup>**

# Mobilization of Wood Resources

## 2. Current EC expectations may create a significant shortage of supply of wood/forest biomass for the overall forest-based industries

CEPI-16, wood supply and demand; million m<sup>3</sup> (under bark); 2020



Source: Green-X model "Economic analysis of reaching 20% share of renewable energy sources in 2020"; McKinsey/Pöyry team analysis

# Mobilization of Wood Resources

## The conceptual framework - objectives

- to intensify the use of currently underused forests
- to use forests, which are not at all used today
- to use nonforest wood resources of urban and rural landscapes
- to establish new forests



# Mobilization of Wood Resources

## The conceptual framework - targets

- to bring more wood to the market  
- m<sup>3</sup>
- to bring a greater area under regular use and effective management  
- ha
- to motivate more forest owners to use their forests intensively  
- no. of people

# Mobilization of Wood Resources

## Constraints

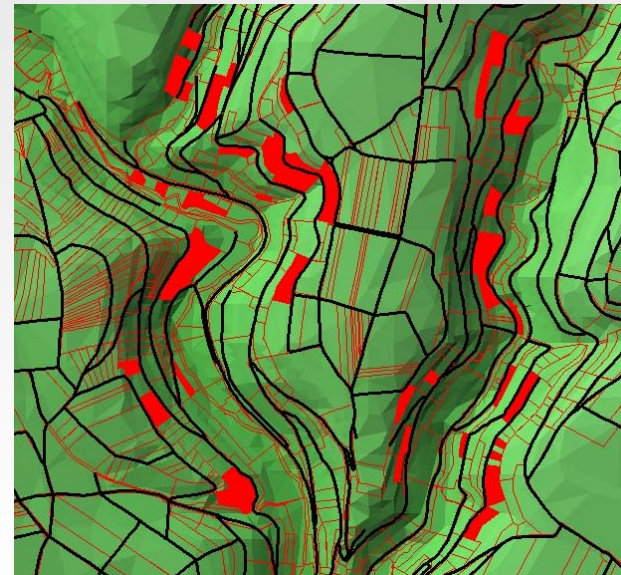
- **Forest Data:** location, area, type and quality of the stock, terrain, roads  
inventories
- **Legal framework:** owner, access to personal data, protected areas, certification, management restrictions, public versus private support activities  
laws and standards
- **Structural:** fragmentation, abandoned land, access  
forest policy instruments
- **Attitude and Mentality:** owners preference, public opinion  
information and motivation



# Mobilization of Wood Resources

## Instruments - inventories

- high resolution satellite / laser / multispectral
- GIS based and frequently updated
- DTM: terrain, roads, ownership borders
- link to growth and yields models



# Mobilization of Wood Resources

## Legal issues

- Who has access to forest owners data?
- harvesting restrictions in protected areas (Natura2000)
- Who may harvest abandoned land?
- bureaucracy obtaining harvesting permissions
- physical access (right of way)
- tax regulations (income peaks)
- role of state forest administration



# Mobilization of Wood Resources

## Motivation of private forest owners - psychology

- different types of forest owners
- classification of individual objectives
- social environment (what will my neighbour think?)



- ➡ respect individual views and values
- ➡ basic research is needed

# Mobilization of Wood Resources

## Information and Motivation - tools



Waldbauverein  
Bitburg e.V.



Eifel Wald und Holz  
Management GmbH

Bitburg, im März 2007

### Sehr geehrter Waldbesitzerin, sehr geehrter Waldbesitzer!

Mit knapp der Hälfte der Gesamtwaldfläche und einem Großteil der gesamten Holzvorräte hat der Privatwald im Gebiet des Waldbauvereins Bitburg eine besondere Bedeutung für die Forstwirtschaft. In Rheinland-Pfalz sind 50.000 Menschen in der Forst-, Holz- und Papierindustrie beschäftigt. Durch die Nutzung des Holzes aus unseren Wäldern können die Eigentümer Erlöse erzielen und tragen zur Wertschöpfung in unserer Region bei. Zahlreiche Kleinprivatwälder werden jedoch nur unregelmäßig bzw. überhaupt nicht bewirtschaftet. Eine nachhaltige Bewirtschaftung der Wälder gewährleistet jedoch erst die Multifunktionalität des Waldes und trägt zur Stabilität unserer Wälder bei.

Sie sind Eigentümer/in eines Waldes bzw. einer am Waldrand liegenden Fläche im Bereich der Gemarkungen Kyllburg/Malberg/Etteldorf/Wilsecker. Der Privatwald in diesem Bereich ist aufgrund schwieriger Wegeerschließung kaum sinnvoll zu bewirtschaften. In einer gemeinsamen Aktion wollen wir versuchen, die Wegeerschließung zu verbessern. Hierzu hat der Waldbauverein Bitburg zusammen mit den zuständigen Fachbehörden (Forstamt Bitburg, DLR Eifel Prüm) einen Wegeplan erstellt. Diesen Wegeplan möchten wir Ihnen gemeinsam vorstellen.

**Wir laden Sie ein zu einer Informationsveranstaltung  
am Samstag, dem 14. April 2007 um 9.00 Uhr  
in der Verbandsgemeindeverwaltung Kyllburg**

Beigefügt erhalten Sie einen Fragebogen. Wir bitten Sie, diesen Fragebogen auszufüllen und am 14.04. mitzubringen. Falls Sie nicht an der Informationsveranstaltung teilnehmen können oder möchten, bitten wir Sie, den Fragebogen an uns zurück zu senden.

Mit freundlichen Grüßen

Martin Lotze

Privatwaldbetreuer  
Forstamt Bitburg

Elmar Franzen

Geschäftsführer  
Eifel Wald und Holz Management GmbH



FOWAWI



# Mobilization of Wood Resources

## Motivation of private forest owners - FAQs

- Isn't it better to let the trees grow?
- What means harvesting to my forest and to the ecosystem?
- How will my forest and my roads look like after harvesting?
- Does harvesting contribute positively to the environment?
- How will my neighbour be affected?
- Can I actively work in my own forest?
- Can I still get enough firewood?
- I have no time – who can help me?
- Is the wood industry a fair partner?
- How much money will I get – or do I have to pay?

➡ **speaking the owner's language**

# Mobilization of Wood Resources

## Activities: encourage and support

- Institution building and qualification
- Mobilization activities by
  - Forest owners associations
  - Wood industry
  - Entrepreneurs/Contractors



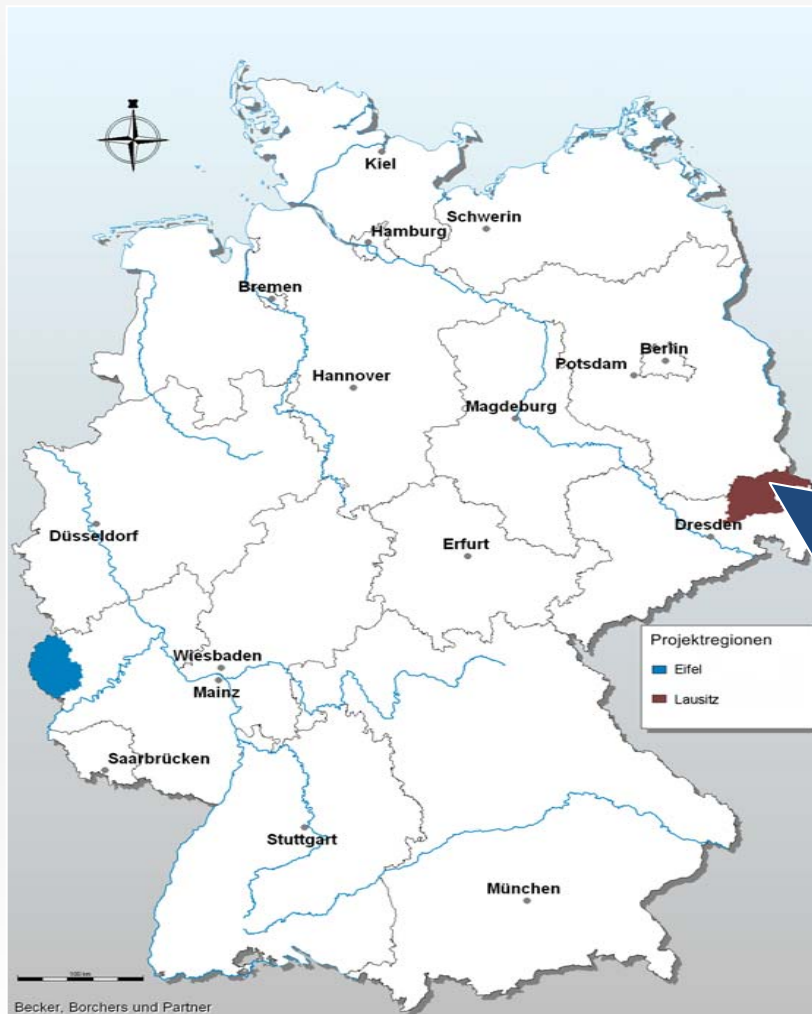
# Mobilization of Wood Resources

## Activities: encourage and support

- Financial incentives: bonus (€/m<sup>3</sup>) for mobilization
- Financial support - for independent consulting
  - for inventories and management plans
  - for better access
  - to establish new forests
- Taxation of nonutilized forests
- Establish a market place for exchange, buying or long term lease of forest land

# Mobilization of Wood Resources

## Examples – characteristics project region Lausitz

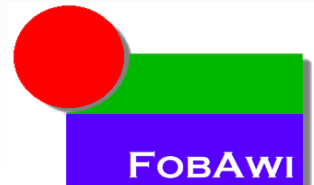


<b>Forest area</b>	<b>85.000</b>
private forest	45.000
state owned forests	23.000
municipal forests	10.000
	6000

<b>number of forest owners</b>	<b>11.325</b>
below 1 ha	5.700
1 - 10 ha	5.200
10 to 100 ha	400
more than 100 ha	25

<b>actual harvest</b>	<b>&lt;1,0 fm/ha/a</b>
(statistics of the Federal Forests)	
<b>potential</b>	<b>3,5 fm/ha/a</b>

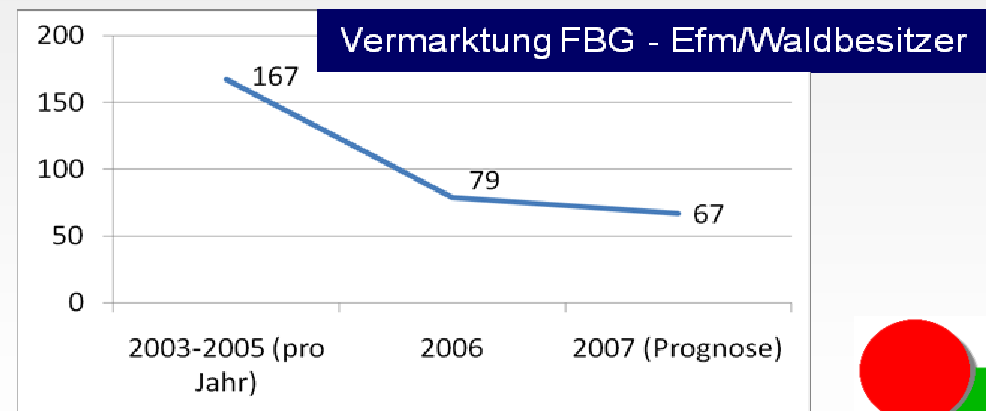
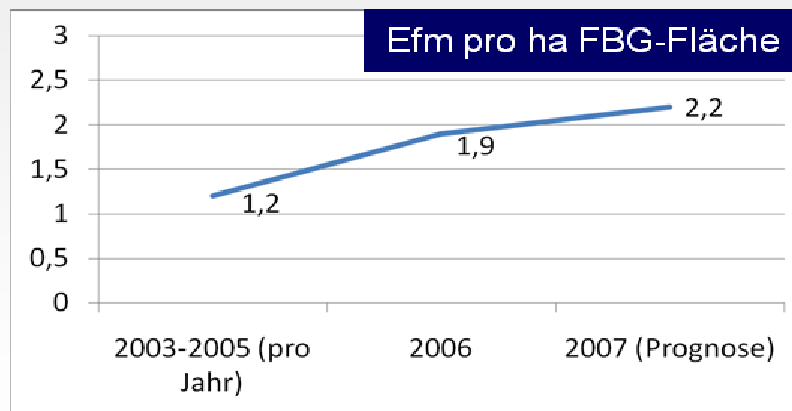
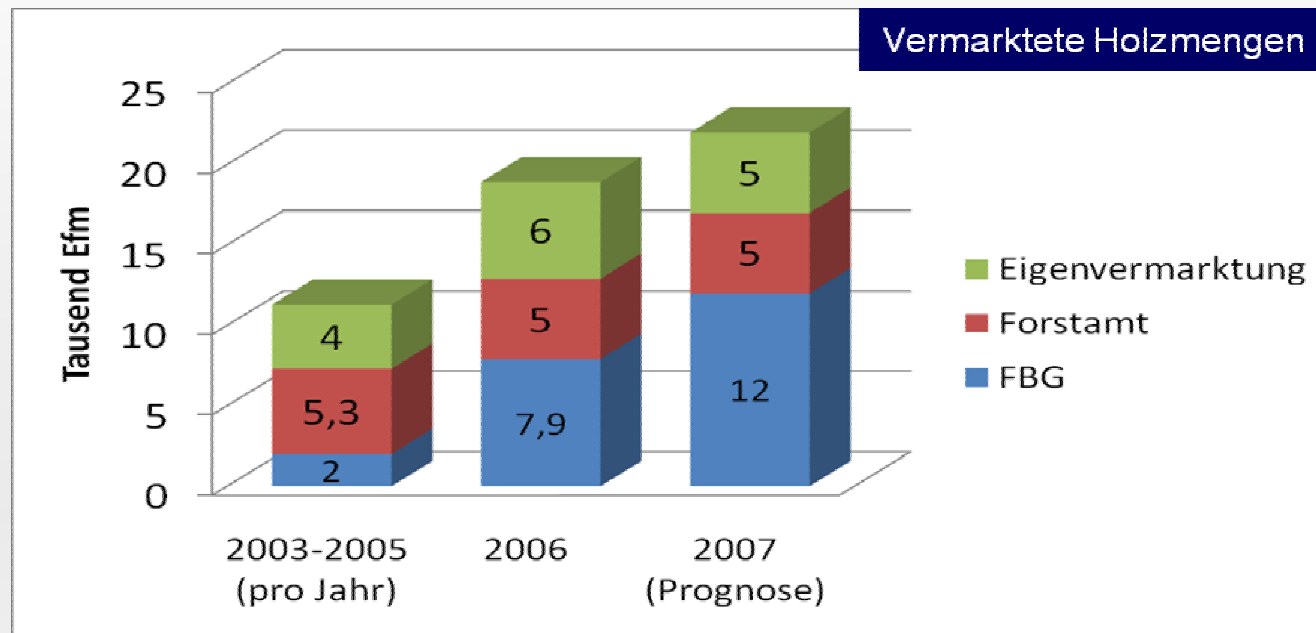
<b>FOAs</b>	
numbers	2
members	183
area [ha]	1.294
degree of organisation	?





# Mobilization of Wood Resources

## Examples – success of mobilization - Lausitz



# Mobilization of Wood Resources

## Examples – characteristics project region Eifel

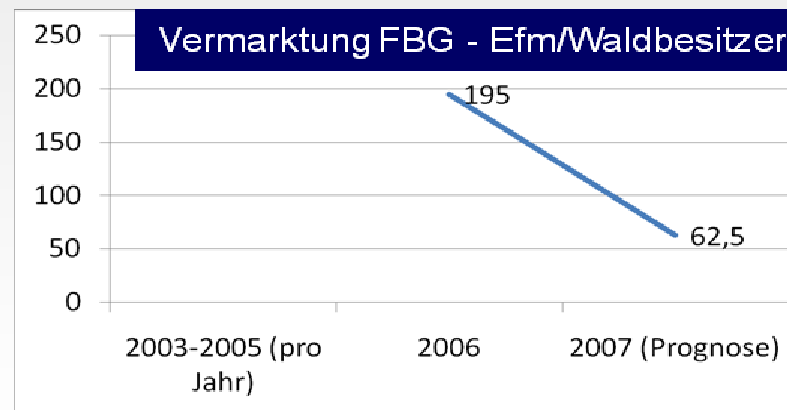
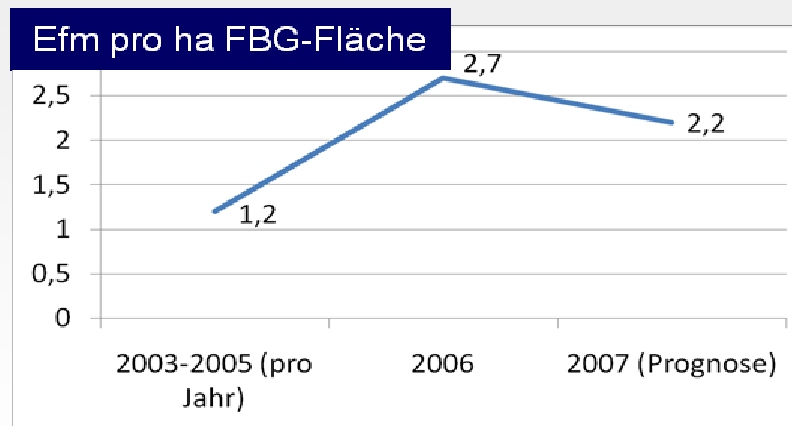
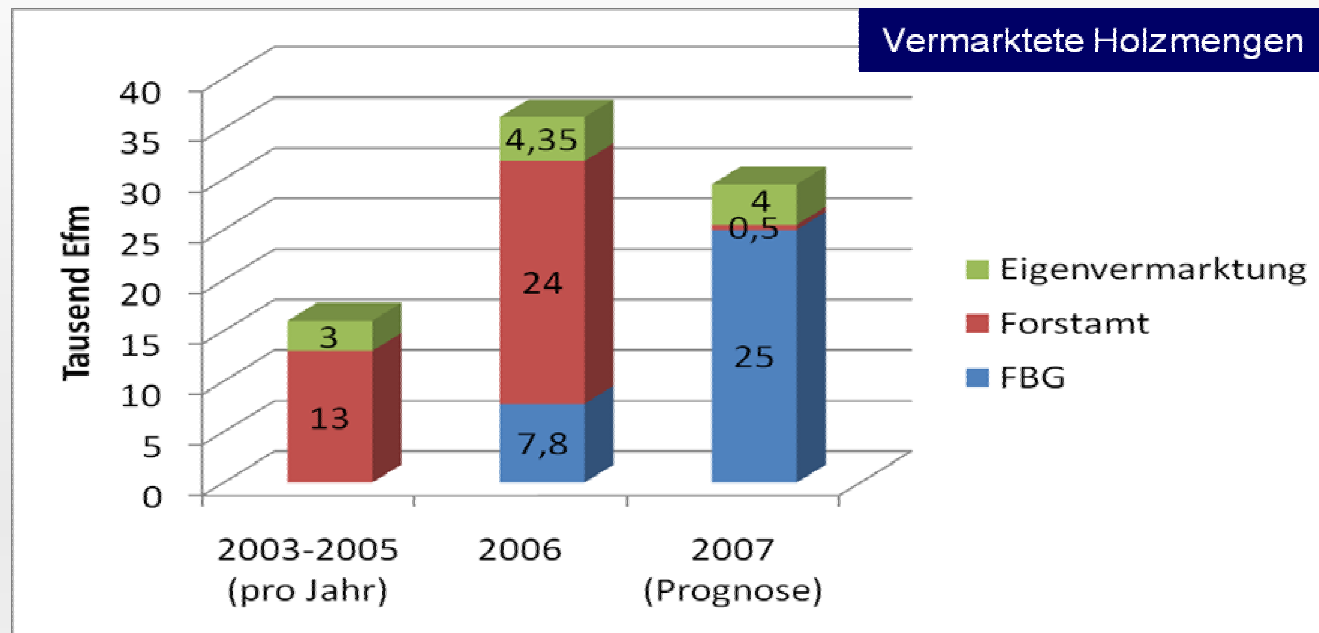
<b>Forest area</b>	<b>27.300</b>
private forest	13.100
state owned forests	3.200
municipal forests	11.000
<b>number of forest owners</b>	<b>22.810</b>
below 1 ha	10.000
1 - 10 ha	12.500
10 to 100 ha	300
more than 100 ha	10
<b>actual harvest</b>	<b>1,5 - 2 fm/ha</b>
(statistics of the Federal Forests)	
<b>potential</b>	<b>7-9 fm/ha/a</b>
<b>FOAs</b>	
numbers	1
members	1700
area [ha]	8000
<b>degree of organisation</b>	<b>61%</b>



Becker, Borchers und Partner

# Mobilization of Wood Resources

## Examples – success of mobilization - Eifel

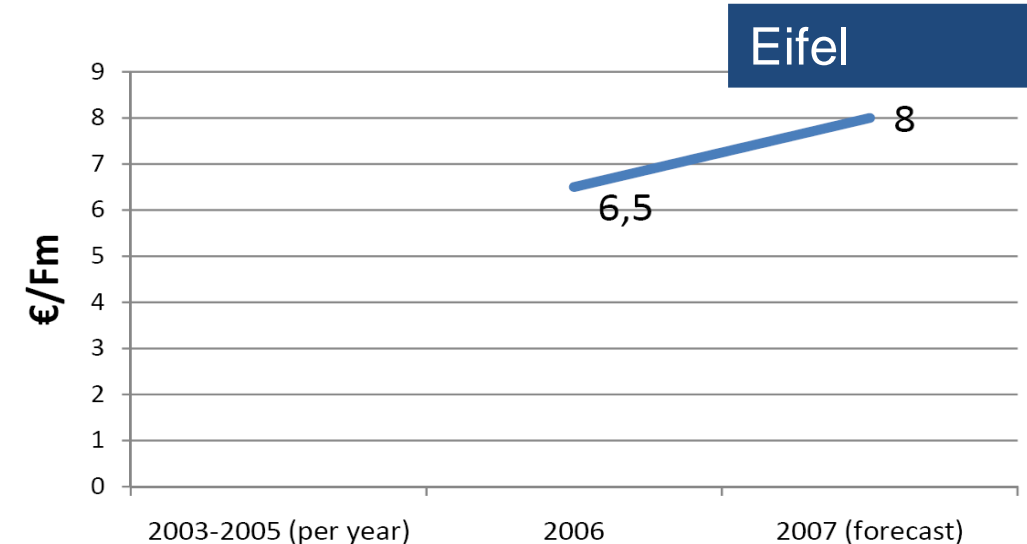
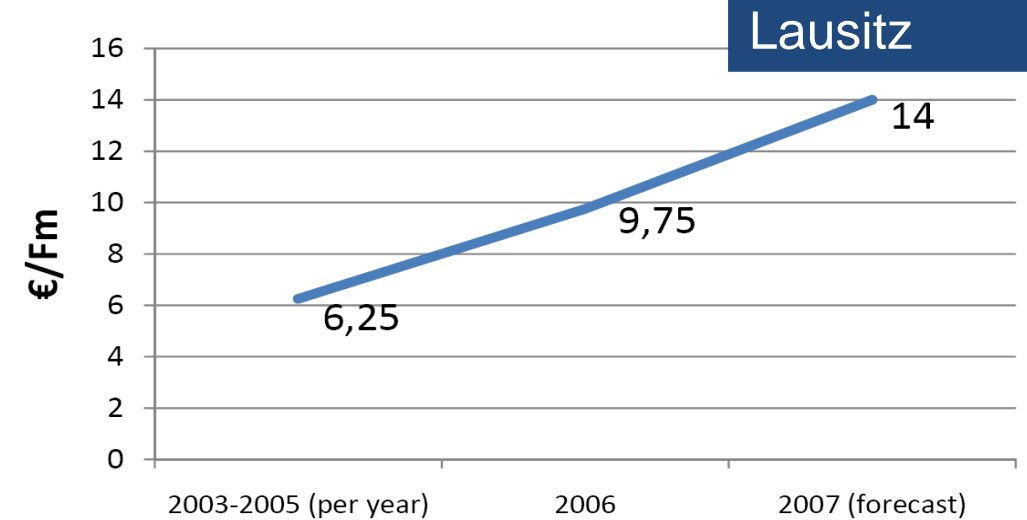


# Mobilization of Wood Resources

## Examples – costs of initial mobilization

### Wood merchandised via the FBG

- establish data base
- first contact
- identify area / parcels
- create harvesting units
- mark trees and borders
- Define storage places
- engage entrepreneurs
- control harvesting
- contract the wood to industry
- billing and payments
- follow-up contacts / controlling



# Mobilization of Wood Resources

## Initial mobilization is expensive

- Who has the interest?
- Who has the benefit?
- Who pays the bill?
  
- State (tax payer)
- Regional / local authorities
- Wood industry
- Forest owners themselves

**Joint efforts are needed!**



# Mobilization of Wood Resources

## Questions?

## Thank you for your attention!

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