Rome, 23rd June 2011 **Parallel Session**

Parallel Session 4

Competitiveness of the forest production sector: wood & non-wood products, supply chains, and strategies for a forest-based local governance

Rents transfer in the Romanian stumpage sale system: between state quasimonopoly and firms' oligopoly

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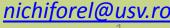
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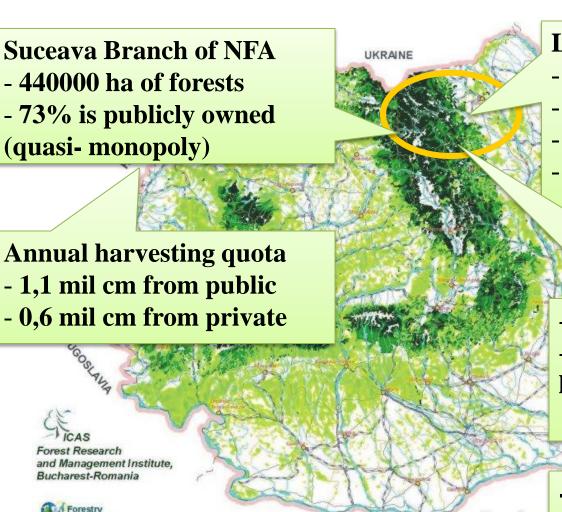
Content

- Background information
- Methodology
- Rents transfer in stumpage sale system
- Results
 - monopoly vs. oligopsony rents
- Conclusions





Background data



BULGARIA

Large wood processing company

- established in 2008
- demand of 1,3 mil cm/year
- 80% from internal markets
- quasi monopsony



- 420 harvesting SMES
- individual market shares of less than 1%
- local oligopsonies
- Potential demand of 4,3 mil cm annually





Methodology

- 66 interviews with market actors (2009-2010)
 - 15 representatives of NFA
 - 51 representatives of harvesting companies
- Data for main stumpage auctions from 1995 -2010
- Econometric analysis of 3396 tracts (standing timber) sold at auctions between May 2008 – and May 2010



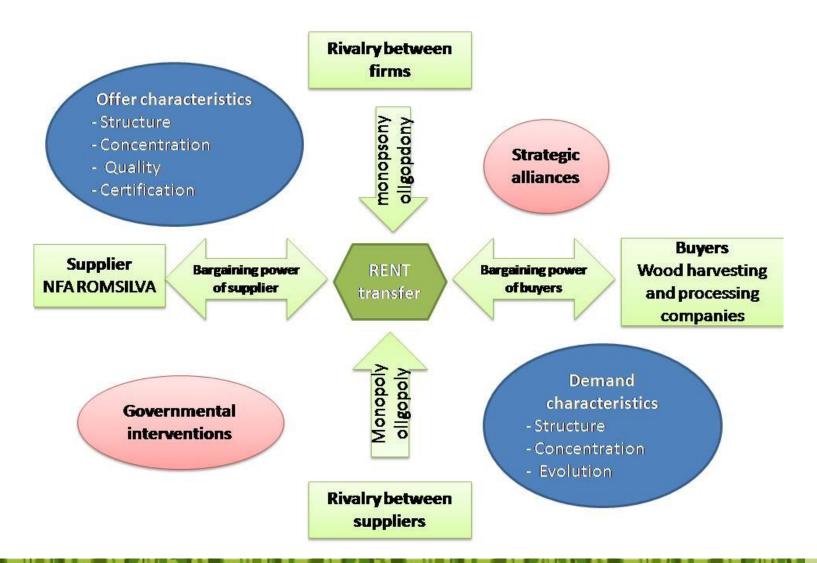
Rents and rent-seeking

- Forest markets as institutionally embedded
 - Market actors guided by rules of the games shaped by "rule makers" and "rule takers"
- Rent seeking inputs spent in
 - Political and bureaucratic arenas in order to change "the rules for the market"
 - and in market transactions in order to change "the rules within the market" (e.g. contractual provisions)



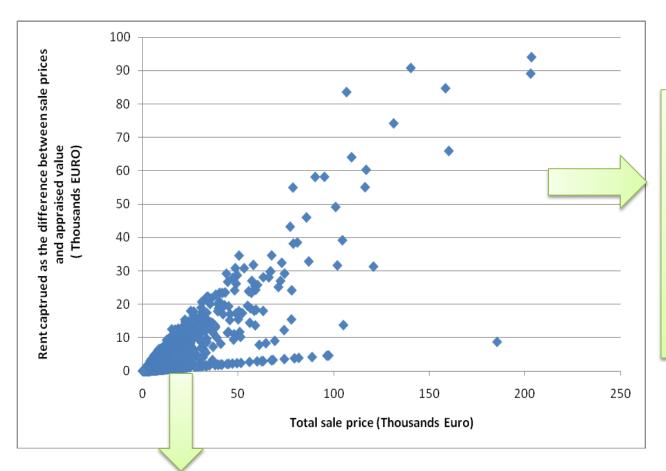


Rents transfer in the stumpage pricing system





Rents distribution through stumpage auctions



8 mil Euro the difference between the reserve price and the appraised value

(May 2008 – May 2010)

- 45 % of tracts have been sold after the first bid
- •- 20% of the companies bought 60% of the tracts

strategic alliances between SMES



NFA rent-seeking behavior

- The pricing policy integrates only the supply conditions and no factors from the demand side
- Unilateral implementation of contractual agreement
- Arbitrary selection of commercial strategies limiting the long-term planning for SMEs

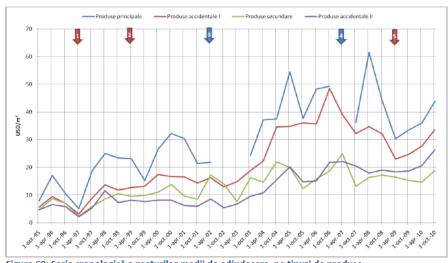


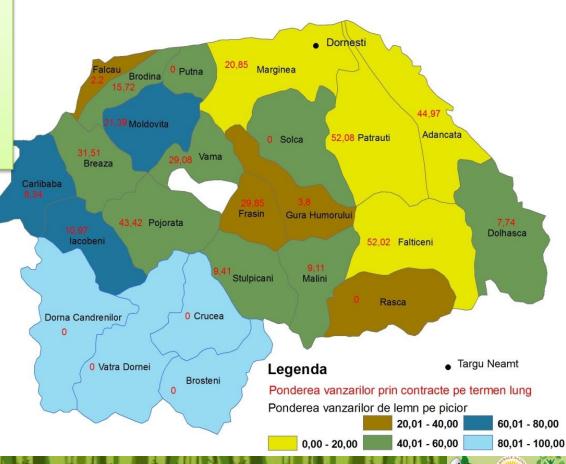
Figura 69: Seria cronologică a preturilor medii de adjudecare, pe tipuri de produse





The impact of commercial strategies on the level of competition

- Auctions for standing timber
- 2. Auctions for logs "at road"
- 3. Long term contracts for LWPCs



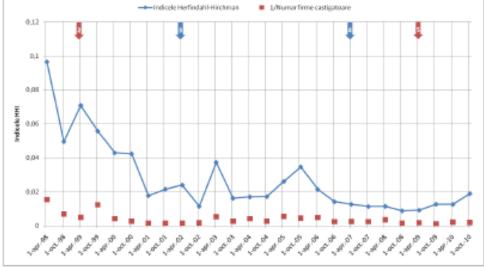


Oligopsony rents of SMEs

- Efforts spent by SMEs to limit the level of competition through strategic alliances
 - Bidder collusion in stumpage auctions
 - Keeping away the outsiders by intimidating practices

VS.

 offering prices for stumpage consistently above the residual value, thus divulging the premise for illegal activities



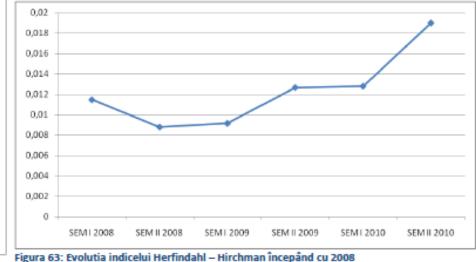
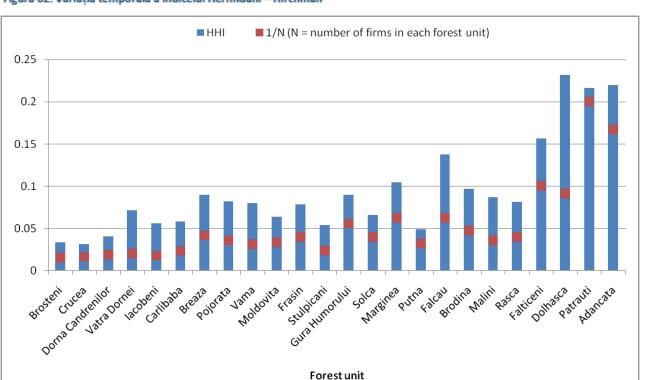


Figura 62: Variatia temporală a indicelui Herfindahl - Hirchman



Herfindahl -Hirchman index

$$Ei = \Sigma r^2$$

Market concentration



Proxy indicators for strategic alliances

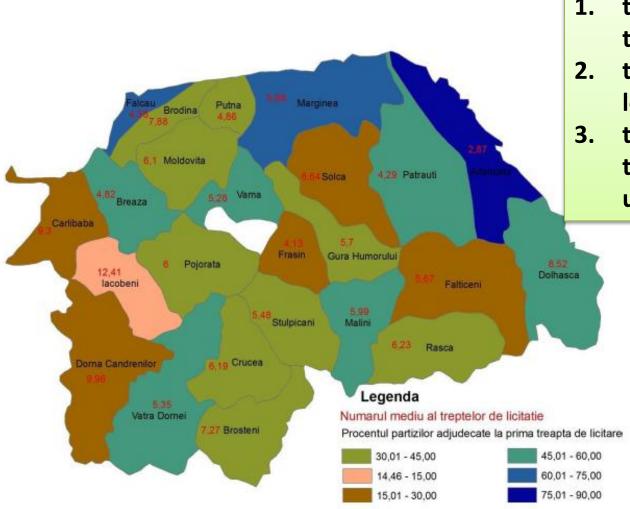


Figura 27: Distribuția zonală procentuală a volumului partizilor adjudecate la prima treaptă

the share of tracts sold after 1. the first bid

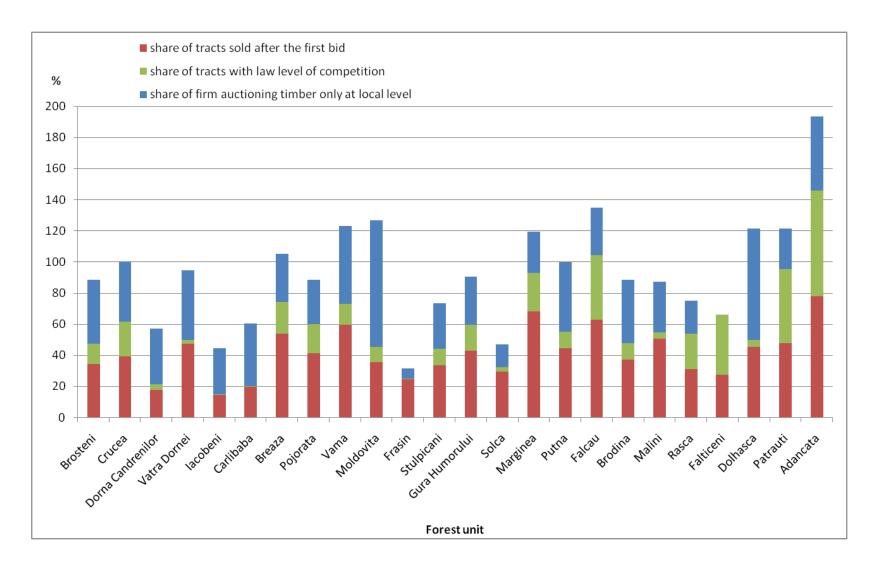
the share of tracts with low level of competition

the share of firm auctioning timber only on specific forest units





Identifying strategic alliances between SMEs







Max Price for standing timber

Residual value for stumpage

Max Price for logs

Average harvesting cost

	Max log price	Average harvesting	Max price for
		costs	stumpage
	RON/m³	RON/m³	RON/m³
Area 1	199	35	154
Area 2	253	28	225
Area 3	253	25	228

1 RON = 4.2 euro

- 74 tracts sold above the residual value

Conclusions

- Emerging timber markets are influenced by rent-seeking processes
 - (Quasi) monopoly rent-seeking from NFA
 - (Quasi) monopsony rent-seeking from LWPC
 - Oligopoly rent-seeking from SMEs
- The quality of forest management is affected
 - High pressure on forest resources, in order to assure the survival of SMEs on the market
- The utility of econometric tools in detecting illegal logging activities



- "rules of the game" created for wood markets are important in rural development
 - Lack of policies
 supporting the
 integration of SMEs
 in the NFA's long
 term planning of the
 timber commercial
 policies

