



# TIMBER TRADE IN LEGISLATION AND STRATEGIC DOCUMENTS – A HISTORICAL OVERVIEW

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**WOODEMA 23.05.2014**

# GOAL OF THE PROJECT:

*“Economic efficiency of timber trade from the transaction costs perspective”*

... is to identify timber trade structures and their institutions, which could and help firms to reach their economic goals.

Formal institutions are rules that are ready observable through written documents or rules that are determined and executed through formal position such authority or ownership (Zenger et al. 2002).

PROJECT  
PART 1. Econometric  
modelling of timber  
market 1990 - 2012

PROJECT  
PART 2. Legislation and  
documents analysis  
1990 - 2013

PROJECT  
PART 3. Analysis of timber  
market structures  
and identification of  
its institutions via in  
person interviews  
(given time)



# METHODOLOGY



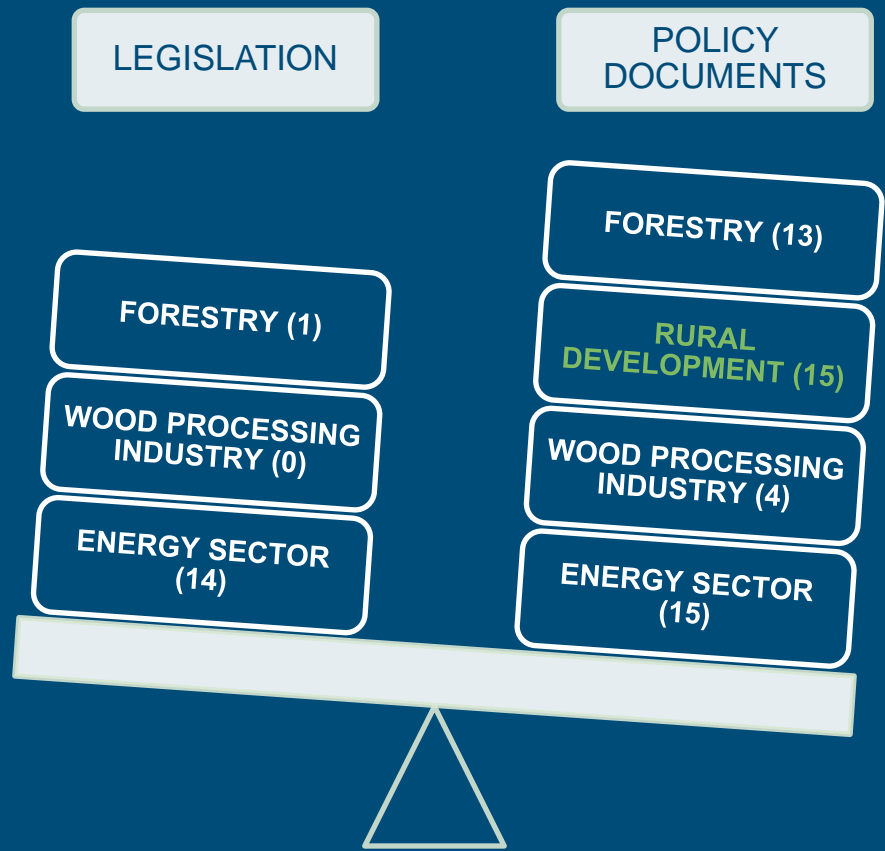
**STEP 1:** Case study approach with single-case design with two units of analysis (Yin, 2003)

**STEP 2:** Target sample based on three criteria: type of document (Krott, 2001), time issue of document, and sectorial character

**STEP 3:** Content analysis based on following techniques: frequency analysis and document analysis (Lamnek, 2010).



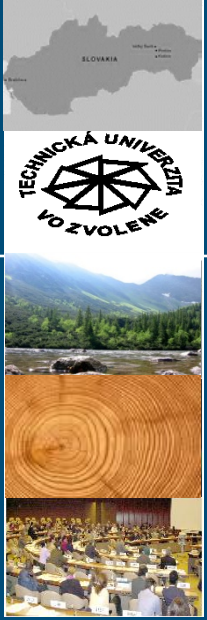
# METHODOLOGY



Legislation included legal acts as laws passed in Parliament and Governance Regulations and Ordinances of Slovakia.

Public policy programs are documents containing statements on societal level about aims and measures in specific sectorial policies.

# METHODOLOGY



**STEP 1:** Case study approach with single-case design with two units of analysis (Yin, 2003)

**STEP 2:** Target sample based on tree criteria: type of document, time issue of document, and sectorial character (Krott, 2001)

**STEP 3:** Quantitative content analysis based on following techniques: frequency analysis and document analysis based on pre set categories (Lamnek, 2010).



## REASERCH QUESTIONS



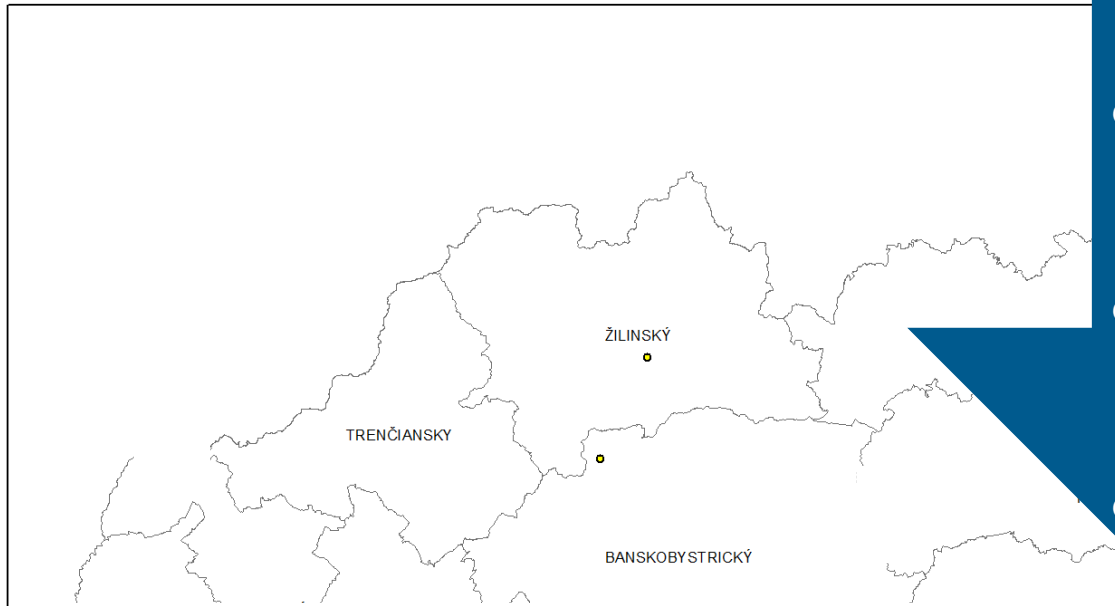
**HOW MANY TIMES AND IN WHICH  
CONTEXT IS TIMBER OR TIMBER TRADE  
USED?**

**WHICH INFLUENCES ARE ASSOCIATED  
WITH TIMBER OR TIMBER TRADE?**

*... timber is characterized as  
(industrial) roundwood,  
biomass or wood fuel (based  
on FAO, 2014)*

*... trade is characterized via  
various market structures (as  
defined by transaction cost  
theory), which in turn could be  
further described by demand  
and supply among others*

# TIMBER DEMAND 1990-2012



≈ 198 companies with 20 and more employees (1990)

≈ 250 companies with 20 and more employees (2000)

≈ 196 companies with 20 and more employees (2002)

≈ 78 companies with 20 and more employees employed 14 113 employees (2012)

≈ all (700?) wood processing industry employed 21 039 employees (2012)

### Kategórie

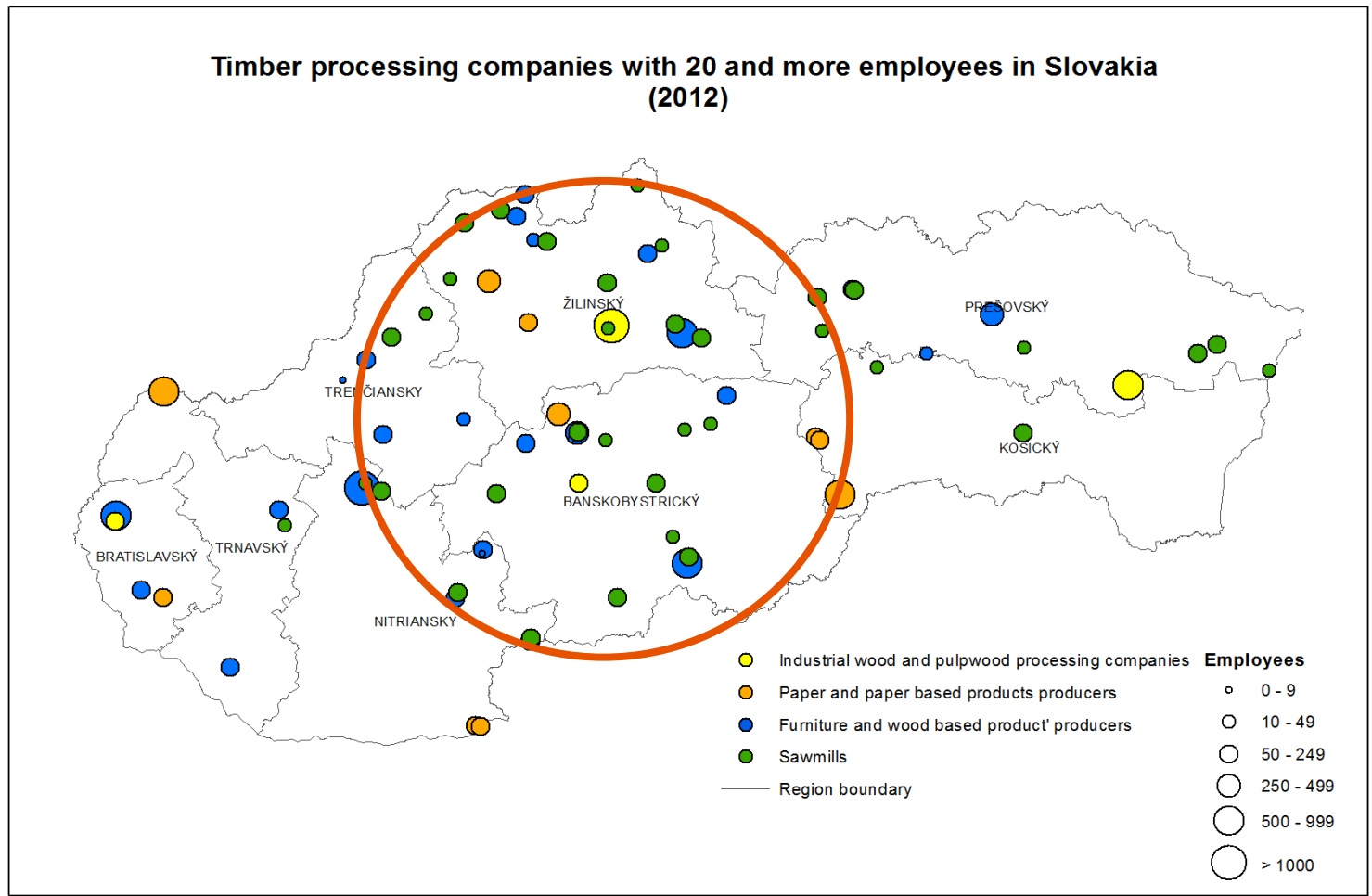
- 0 - 10000
- 10001 - 20000
- 20001 - 50000
- 50001 - 100000
- 100001 - 200000
- nad 200001



# TIMBER DEMAND



### Timber processing companies with 20 and more employees in Slovakia (2012)

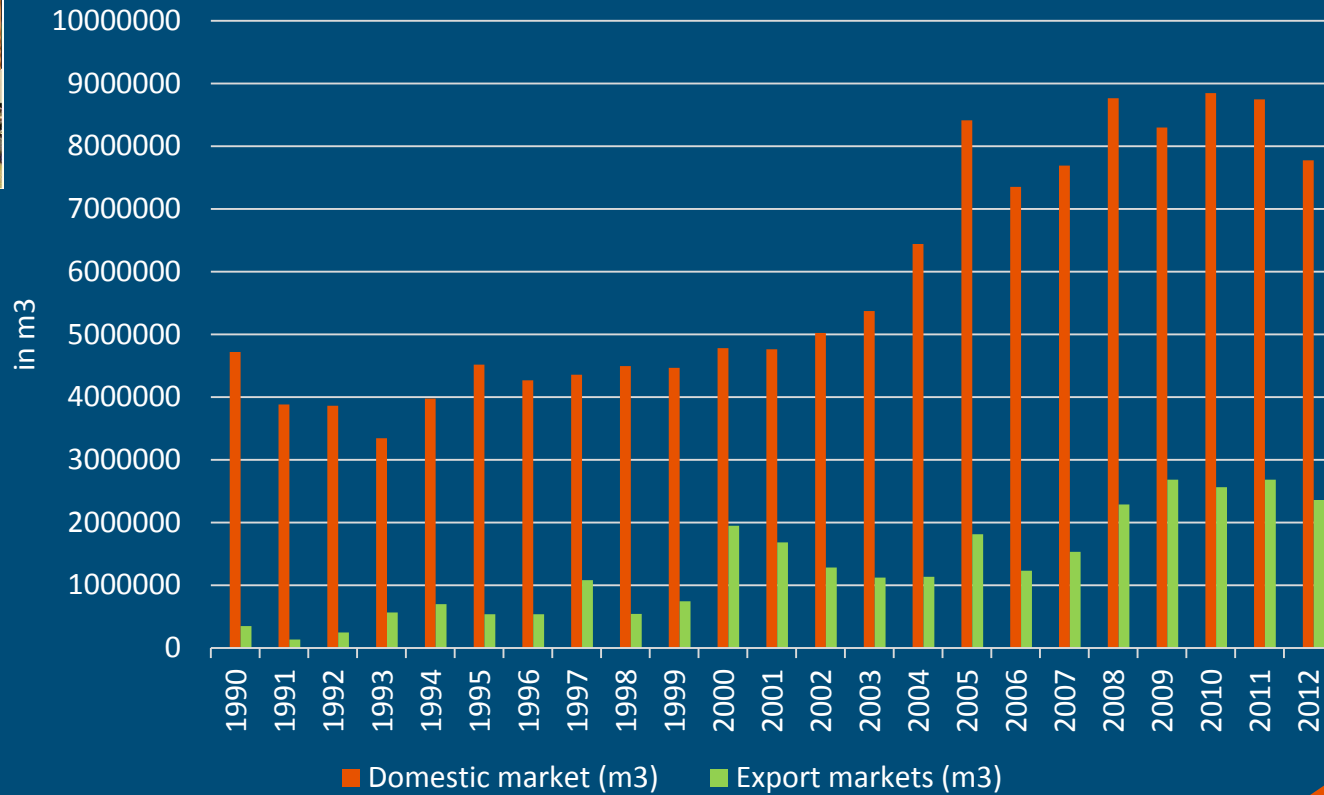




# TIMBER SUPPLY 1990-2012



## Timber supplied to domestic and foreign markets

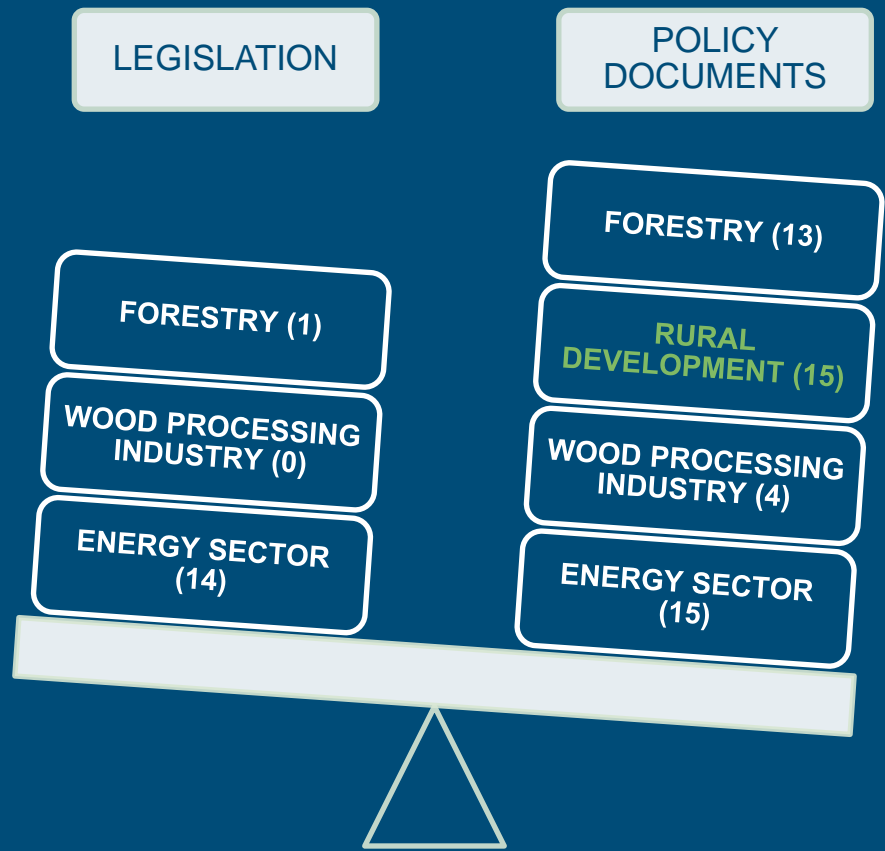


2,36  
million  
m<sup>3</sup>

7,8  
million  
m<sup>3</sup>



# METHODOLOGY



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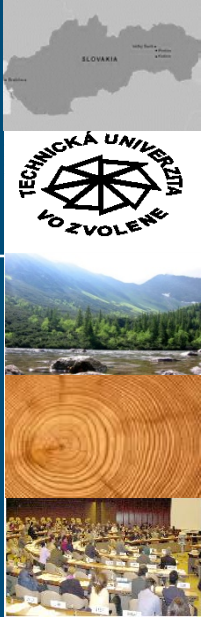
# PRELIMINARY RESULTS: Forestry

## Forestry legislation

1977	Act no. 61/1977 of the Coll. On Forests
2005	Act no. 326/2005 of the Coll. On Forests

## Strategic forestry documents

1993	Strategy and Conception of the Forest Economy Development
1993	Principles of State Forest Policy in Slovakia
1994	Program of afforestation of agriculturally unused non forest soil
1996	Project of Forestry Development
1999	Program of Forest Economy Development in SR up to 2010
2000	Conception of Slovak Forest Policy till 2005
2006	Conception of Agriculture Development in 2007 – 2013 – forestry part
2007	National Forest Programme of the Slovak Republic
2007	Prognosis and visions of the development of Slovak agriculture, food economy, forestry and rural areas
2008	Indicative action plan of the National Forest Programme of the Slovak Republic
2008	Strategy of Forestry Development
2008	Forestry Strategy
2009	Vision, Prognosis and Strategy of the Slovak Forestry Development



# PRELIMINARY RESULTS: Wood processing industry

## Strategic documents targeting wood-processing sector

1999	Wood the raw material of the 21 <sup>st</sup> Century
1999	Program for the Support of Processing and Usage of Wood Resource
2000	Joint Conception of Forest and Wood Policy of Timber Production, Processing and Use in SR
2013	National Program of the Wood Potential Use in Slovakia



# PRELIMINARY RESULTS: Energy sector

## Legislation in energy policy

<b>2001</b>	<b>Act no. 276/2001 on regulation in network industries</b>
<b>2004</b>	Act no. 656/2004 on power industry
<b>2004</b>	Act no. 657/2004 Z. z. on heat energy
<b>2006</b>	Act no. 24/2006 on environmental impact assessment
<b>2007</b>	Government Ordinance no 317/2007 on rules for energy market functioning
<b>2009</b>	Act no. 309/2009 on the support of renewable energy sources and highly effective combined production
<b>2009</b>	Notice of the Ministry of Economy no. 599/2009 on execution of the Act no. 309/2009
<b>2009</b>	Notice of the Regulatory Office of Network Industries no. 490/2009 on the specifications for the support of RES
<b>2011</b>	Notice of the Ministry of Economy no. 373/2011 on the implementation of the act no. 309/2009
<b>2011</b>	Notice of the Ministry of Economy no. 372/2011 stating the calculation of annual heat production by energy production from biogas acquired by anaerobe fermentation
<b>2011</b>	Notice of the Ministry of Agriculture and Rural Development no. č. 295/2011 implementing § 19b / 2 of the act no. 309/2009
<b>2011</b>	Notice of the Regulatory Office of Network Industries no 219/2011 stating price regulation in heat energy
<b>2011</b>	Notice of the Regulatory Office of Network Industries no 225/2011 stating price regulation in electro energy
<b>2012</b>	Act no. 251/2012 on energy as amended



# PRELIMINARY RESULTS: Energy sector

## Strategic documents targeting energy sector

<b>1993</b>	<b>Energy Conception of SR do until 2005</b>
<b>1997</b>	Actualized Energy Conception of SR until 2005
<b>1999</b>	Program of Decreasing Energy Intensity and Alternative Energy Sources Utilization including Support and Development tin this Area
<b>2000</b>	Energy Policy of the Slovak Republic
<b>2003</b>	Concepcion of Renewable Energy Resources Utilization
<b>2004</b>	Concepcion of Agricultural and Forest Biomass Use
<b>2004</b>	Concepcion of Agricultural and Forest Biomass Use for Energy Purposes
<b>2005</b>	National Program of the Biofuels Development
<b>2006</b>	Energy Policy of the Slovak Republic
<b>2007</b>	Strategy oh the Higher Utilization of Renewable Energy Resources in SR
<b>2007</b>	Concepcion of Energetic Effectiveness of the SR
<b>2008</b>	Action Plan for Biomass Utilization 2008-2013
<b>2008</b>	Strategy of Energy Security
<b>2010</b>	National Action Plan for Energy from Renewable Sources
<b>2013</b>	Concepcion of Electricity Production Development from Small Renewable Energy Sources





- 47 legislation and political documents between 1989 and 2013 identified
- Most targeted energy sector
- Majority of energy sector documents focused on opportunities of biomass for energy generation
- General focus of documents was on how could be timber as a strategic renewable resource used in the wood processing industry or the energy sector.



# Thank you!

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