



TECHNICAL UNIVERSITY IN ZVOLEN



# DEVELOPMENT OF ROUNDWOOD DELIVERIES IN SLOVAKIA

Hubert Paluš  
Ján Parobek



WoodEMA, i.a.

*Innovation as the source of values in the forestry, wood processing and furniture manufacturing*  
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- the research deals with the analysis of roundwood deliveries in Slovakia over the past two decades of different roundwood assortments
- a high share of accidental felling is the main reason for the changes in supplied volumes of individual assortments



- forests cover approximately 2.0 million ha in Slovakia
- of 50% coniferous and 50% broadleaved tree species
- the total growing stock is approximately 452 million m<sup>3</sup>, (245 m<sup>3</sup> per hectare)
- in 2010 felling was 9.9 mil. m<sup>3</sup> (in the 1993 roundwood removals was only 5.2 mil. m<sup>3</sup> )



- income in forestry is sale of timber, which comprises more than 78 % of total sales in forestry



## METHODOLOGY

- analyse the past development of roundwood deliveries during the years 1993-2011
- the official statistical data published for forestry and the national classification of roundwood assortments

In particular, the following categories of roundwood assortments were analysed:

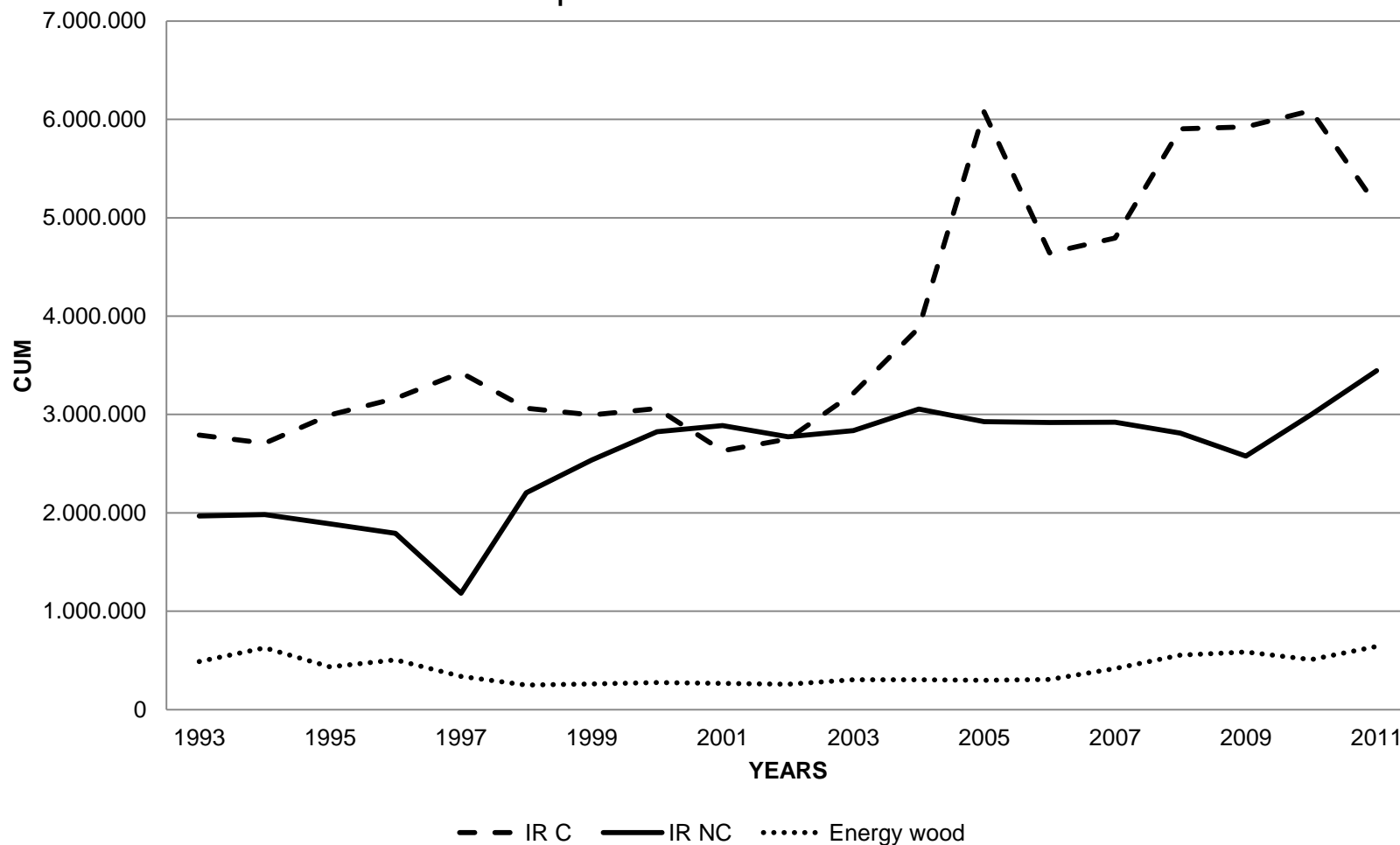
- coniferous veneer and sawlogs
- coniferous pulpwood
- coniferous other industrial wood
  
- non-coniferous veneer and sawlogs
- non-coniferous pulpwood,
- non-coniferous other industrial wood
  
- aggregated category of coniferous and non-coniferous energy wood.



- development of total deliveries and deliveries according to the geographical destination (using the share of export deliveries on the total deliveries)
- a share of energy wood on the total deliveries of roundwood was analysed to examine changing patterns in sale of wood due to changing demand requirements
- the development of the three main groups of assortments (logs, pulpwood and other industrial roundwood) on the total deliveries of coniferous and non-coniferous industrial roundwood



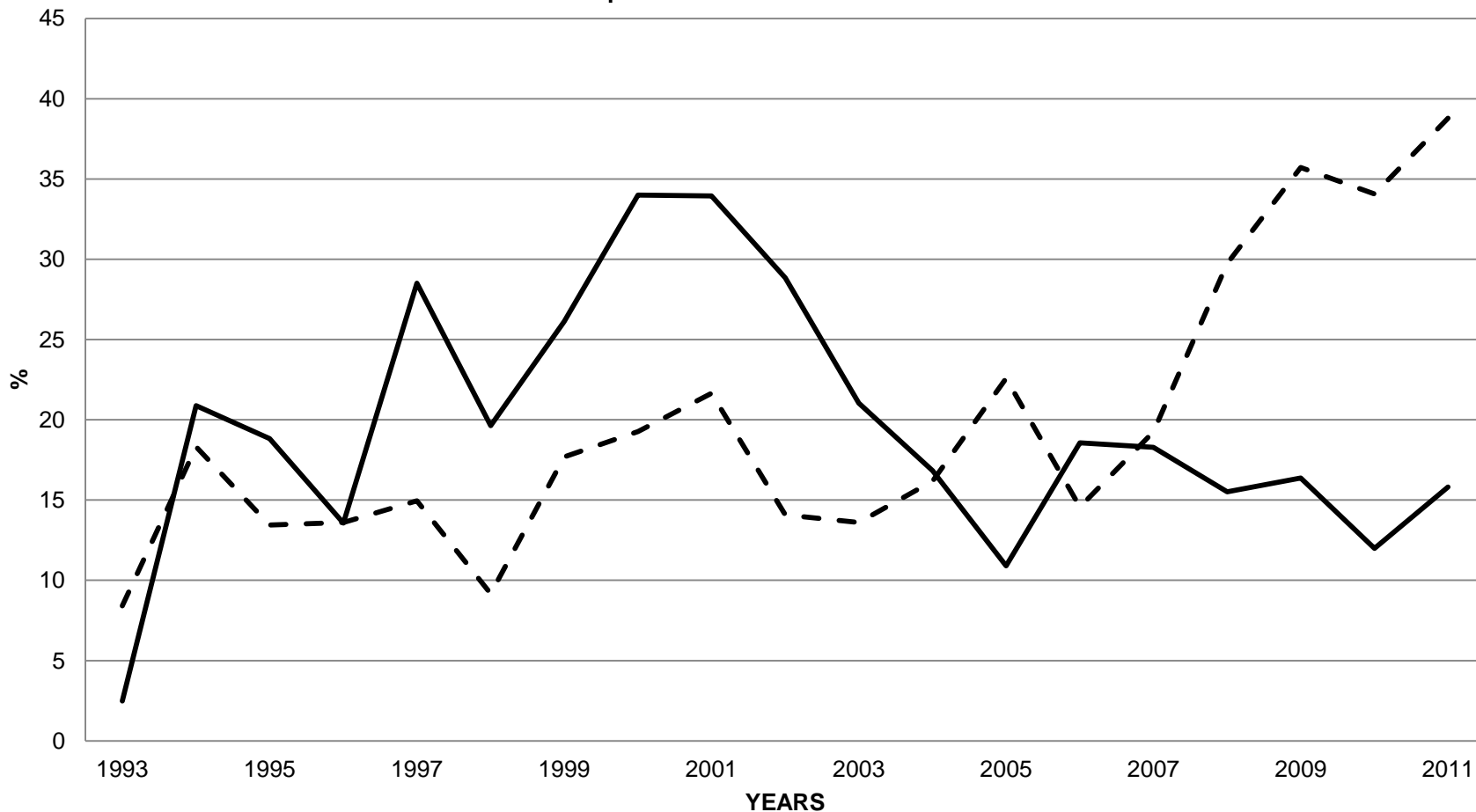
## The development of total roundwood deliveries







### Share of export deliveries on the total deliveries

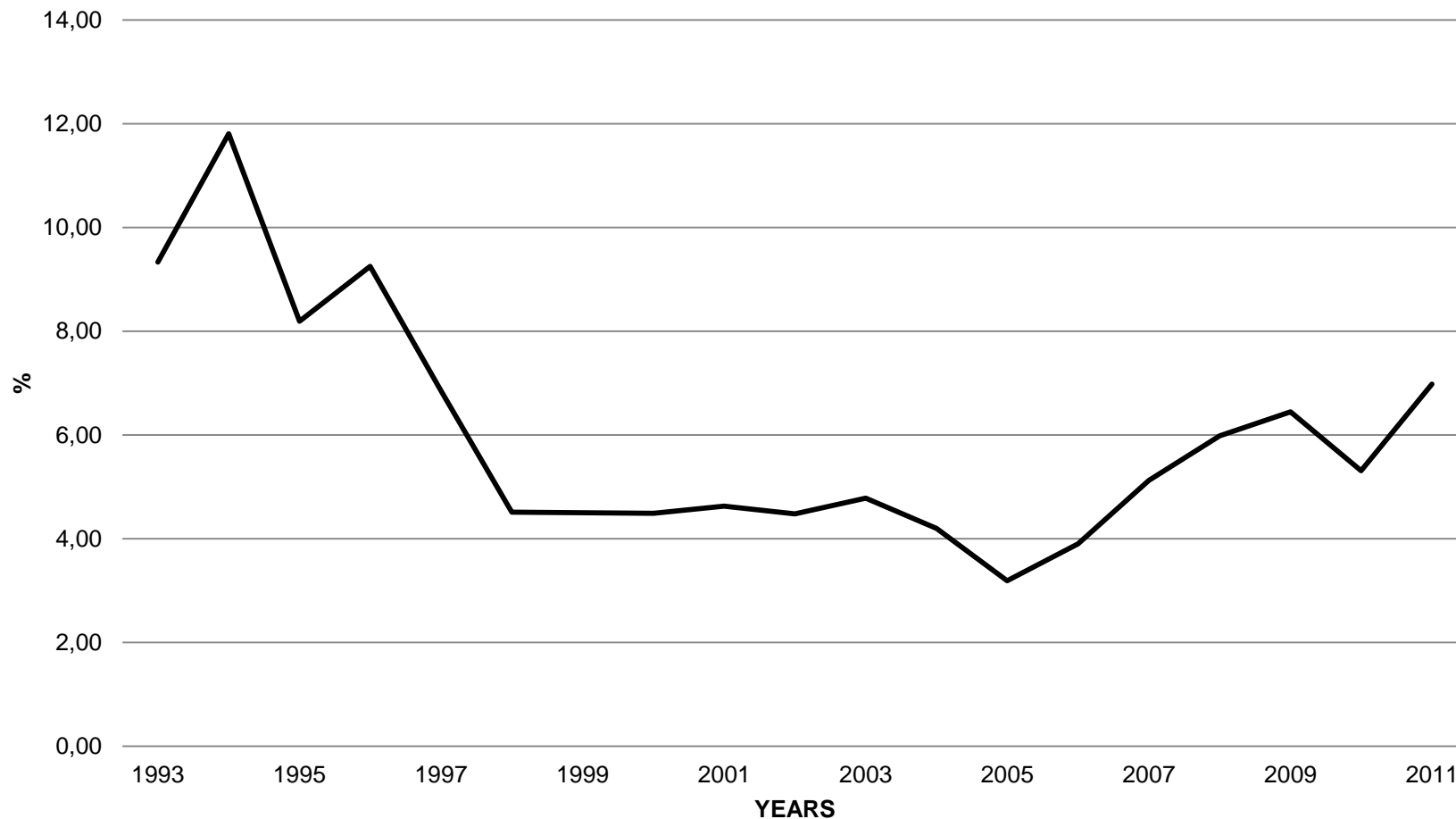


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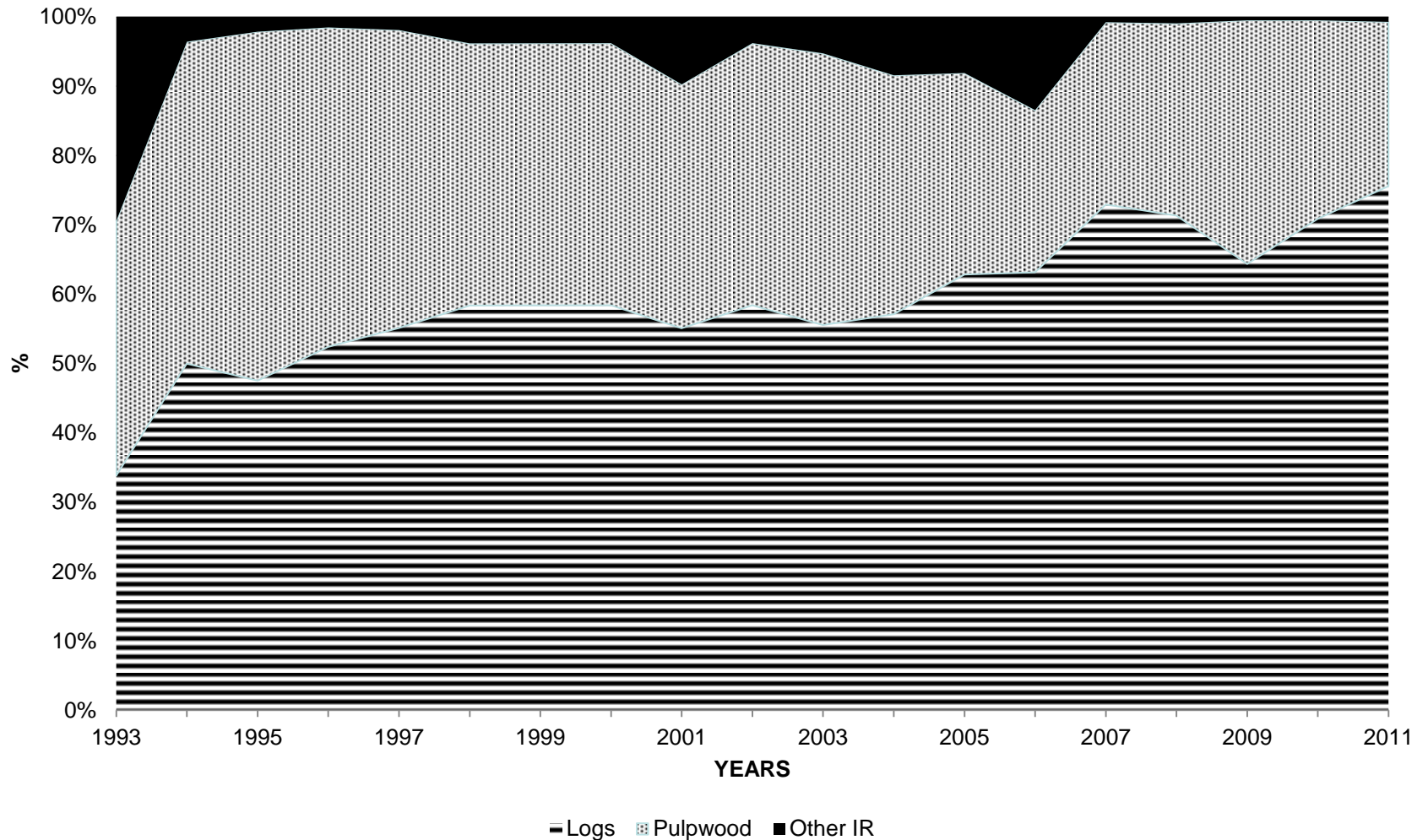
Share of energy wood on the total roundwood deliveries





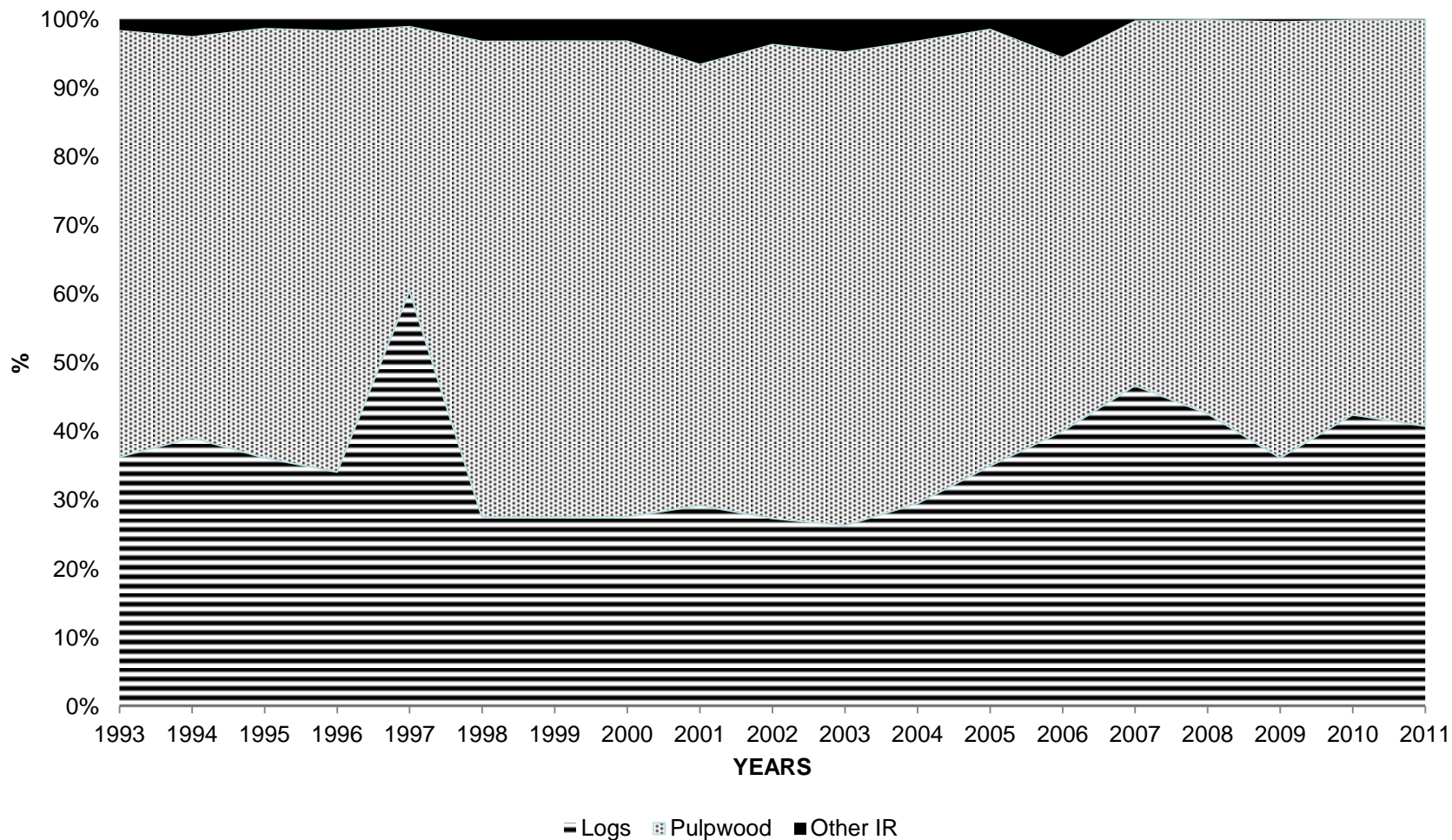


## Shares of the main groups of roundwood assortments of coniferous industrial roundwood





## Shares of the main groups of roundwood assortments of non-coniferous industrial roundwood





## CONCLUSION

This research dealt with the analysis of roundwood supplies in Slovakia. Based on simple indexes calculated from available data of roundwood deliveries it can be concluded that:

- there is an increasing trend in deliveries of coniferous and non-coniferous roundwood as a result of increasing felling and, in particular, accidental felling,
- since 2006, there has been a significant increase in the share of export of coniferous industrial roundwood on total deliveries; reaching approximately 40% in 2011,
- a share of energy wood on total deliveries of roundwood has increased during the last years (up to 7%),
- there are significant differences in the structure of coniferous and non-coniferous deliveries of industrial roundwood caused by the tree species characteristics themselves as well as by the changing demand conditions.



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*Thank you for your attention*

*Assoc. Prof. Hubert Palus, Phd .*

*Jan Parobek, PhD.*

*Technical University in Zvolen, Faculty of Wood Science and Technology,*

*Department of Marketing, Trade and World Forestry,*

*T. G. Masaryka 24, 960 53 Zvolen, Slovak Republic,*



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