TECHNICAL UNIVERSITY IN ZVOLEN

THE POTENTIAL CLUSTERS AND REGIONAL INNOVATION PARADOXES IN THE FORESTRY SERVICE SECTOR IN SLOVAKIA

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INNOVATION SYSTEM AND FORESTRY SERVICE SECTOR

- In recent years, the overriding role of forestry is associated with the provision of a wide range of services.
- The emphasis in the process of providing forestry services has been put on quality and innovation.
- Innovation of providing forestry services are the result of the institutional process.
- The basic functions of that innovation system is cooperation.

METHODS

- Coefficient of localization (8 regions)

$$LQ = \frac{x_i / X}{y_i / Y}$$

Where:

x_i - number of contractor firms in the forestry service sector in the region,

X - total number of enterprises in the region,

y_i - number of contractor firms in the forestry service sector in Slovakia,

Y - total number of enterprises in Slovakia

- Evaluation of innovation activities in 2012 compared to 2011 based on changes in accumulated depreciations vs. capital investments

LQ

The classification of firms in the forestry service sector according to regions of Slovakia

Region	BB	BA	KE	NR	PO	TN	TT	ZA
Number of firms	5 777	380	3 177	804	6 120	1 976	609	2 883

The coefficient of localization for different regions of Slovakia in the forestry service sector

Region	BB	BA	KE	NR	PO	TN	TT	ZA
LQ	2,42	0,09	1,32	0,31	2,19	0,92	0,28	1

Innovation activities

Region	Value of assets (€)		
	Accounting period		Annual change
	2012	2011	
BB	35 716 277	33 808 277	**1 908 000**
BA	3 919 160	3 008 024	**911 136**
KE	20 245 995	20 846 969	**-600 974**
NR	10 343 729	10 550 791	**-207 062**
PO	32 356 435	30 305 171	**2 051 264**
TN	9 795 953	8 845 860	**950 093**
TT	6 537 300	6 767 908	**-230 608**
ZA	12 335 929	11 314 833	**1 021 096**
Total	131 250 778	125 447 833	**5 802 945**

Identification of regional paradoxes

Region	Innovation activity (mil. €)	Rank	LQ Ltd. companies.	Rank	Forest cover	Rank
BB	1.9080	7	2.5400	8	0.4910	6
BA	**0.9111**	**4**	**0.1900**	**1**	**0.3660**	**4**
KE	**-0.6010**	**1**	**1.0600**	**5**	**0.3960**	**5**
NR	-0.2071	3	0.5100	2	0.1520	2
PO	2.0513	8	2.2000	7	0.4920	7
TN	0.9509	5	1.0200	4	0.4920	7
TT	-0.2361	2	0.5600	3	0.1570	3
ZA	1.0211	6	1.5700	6	0.5590	8
Character of criterion	+ 1		+ 1		+ 1	

Synergic effect of innovation networks

Region	BB	BA	KE	NR	PO	TN	TT	ZA
Integral indicator	**21**	9	11	7	**22**	16	8	**20**
Rank	**2**	7	5	8	**1**	4	6	**3**

- There were three regions identified (BB, PO, KO) as potential clusters to be supported in terms of development of their innovation activities

THANK YOU FOR YOUR ATTENTION!

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