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THE IMPACT OF INVESTMENTS IN PERMANENT ASSETS ON THE INCREASE IN THE NUMBER OF EMPLOYEES AND THEIR SALARIES BY ENTREPRENEURIAL SECTORS

INTRODUCTION

This study of the effect of the growth of permanent assets on the number of employees during the period from 2014 to 2020 in Serbia revealed a high correlation between these two trends and pointed out that new investments in permanent assets are the most significant generator of the number of employees (2, 23).

This paper aimed to identify the impact of investments in permanent assets on the number of employees by sector and its impact on employee salaries. We assume that higher investment contributes to the increase in the number of employees and their wages and contributes to better economic development of that sector.

Permanent assets include tangible, intangible, and biological assets, long-term investments, and long-term receivables. All these assets represent the manufacturing capital. The term 'fixed assets' is also used as the synonym for permanent assets.

LITERATURE REVIEW

Theoretical literature often points out that the volume and the sign of the change in fixed asset investments effect on employment depend on the production structure and the share of capital technology and labor. However, empirical studies of the interdependence of fixed asset investments and job creation are relatively scarce and limited. Fanhui Fan and Li Jing

SUMMARY

Key words: Marginal investments; a marginal number of employees; entrepreneurial sector; Serbia.

This work aimed to identify the impact of investments in permanent assets on the number of employees by sector and its impact on employee salaries. We draw the data from the Financial Statements Annual Bulletin published by the Serbian Business Registers Agency, representing aggregated data of all enterprises in Serbia and their analysis by sectors. The data set spans the period from 2013 to 2020. The results show a high positive correlation between investment in permanent assets and the number of employees in the manufacturing sector and information and communication sector, and a negative one in the agricultural industry. We did not find a significant correlation between investments in permanent assets and the number of employees with their salaries.

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(2011) found a high positive correlation between investments in fixed assets and industrial employment and a negative and low correlation between investments in fixed assets in agricultural production and employment in agriculture (4, 955).

For a better understanding of the effects of fixed asset investment, it is necessary to know their determinants. The results of most researchers show that the availability of financial resources has a significant impact on the volume of investments in fixed assets. Using a sample of high-tech firms in Portugal, Nunes et al. (2017) estimated that one percent growth of the firm's debt in the previous period affects the increase in the volume of fixed assets investments by 0.52 percentage points. On the other hand, the firm's age restricts investment in fixed assets (6, 178). Similar results have been found in other studies. For that reason, it is necessary to keep in mind that one of the essential preconditions for investments in fixed assets is long-term finance. According to Sommer (2021), firms with higher investments in fixed assets and long-term finance are more likely to increase employment by 0.77 percentage points. These firms are also more likely to invest in the training of production workers and the number of permanently employed workers, which contributes to improving the quality of employment (11, 16-18).

Due to the importance of the firm's access to long-term finance for the firm's development, considerable attention from analysts in the past years has been given to researching the effects of long-term credits, particularly in developing countries. However, several studies show that long-term credits have a positive impact on employment growth and salary growth in firms, but it is not statistically significant. In addition, the results indicate that short-term loans have a critical impact on employment growth (12, 230-232). Leon (2020) found similar results related to the effects of long-term credits and short-term credits on employment growth (5, 77).

The access to loans for investing in fixed assets varies depending on the size of the firm. Small and medium firms face several financial and institutional obstacles in external financing. However, the research results show that the access to loans for small and medium-sized enterprises, for finance investments in fixed assets among other things, contributes more to employment growth than is the case with large firms. According to Ayyagari et al. (2016), employment growth would be higher by 3.06 percentage points if a small or medium enterprise had access to a loan or line of credit from a financial institution, while employment growth in a large firm with access to a loan would be higher by 1.18 percentage point (1, 35). This can be explained

by the fact that small and medium enterprises tend to be more labor-intensive than large firms. It can be assumed that the relaxation of financing constraints faced by firms in the financial market would positively affect employment growth. The research study shows that firms facing severe financial barriers have 1.5 percentage points lower job creation rate than firms without financial constraints (3, 16). However, in the same study, the authors find that the impact of financial obstacles on job creation rate depends on the degree of working capital external financing. The results show that there is no statistically significant effect of fixed capital investments on employment growth between the firms facing financial barriers and firms which are more dependent on external funding (3, 22).

METHODOLOGY

To determine the sources of financing investments in permanent assets, we drew the data from the Financial Statements Annual Bulletin published by the Serbian Business Registers Agency, which represents aggregated data of all enterprises which submitted their financial reports, according to the Law on Accounting from 2013. The data set spans the period from 2013 to 2020. The data include data from financial statements of all enterprises and their analysis by sectors of activities. (7-10)

The first step was to calculate the aggregated statements of changes in financial positions of all enterprises in Serbia over the period from 2013 to 2020. The statement of changes in financial position is a statement of flows. It measures the changes that have taken place in the financial position of an entity between two balance sheet dates. It shows the source of funds and the application of funds during the period.

The calculated changes in the financial position showed to be a valuable source of data for further analysis. We selected three financial statement positions from the calculated data: (1) annual changes of the stated values of permanent assets, (2) annual changes of the stated values of own capital, and (3) annual changes of the stated values of long-term financial liabilities. One of the basic assumptions in financial analysis is that long-term (here permanent) assets shall be financed with long-term funds (own capital and long-term financial liabilities). Following that assumption, we compared the annual changes of own capital and long-term financial liabilities with the annual changes of the permanent assets. The second step of the research included the analysis of the same phenomena in ten entrepreneurial sectors,

which comprise about 85% of all enterprises. Finally, we compared the trends of change in value of gross annual salaries per employee with the trend of increase of permanent assets and the kind of investment in permanent assets. This was a qualitative analysis of quantitative data. Relevant statistics was initially performed in MS Excel and once again in STATA. Our database is based on MS Excel, and usually includes small series not longer than eight years. MS Excel statistical functions can be easily applied during the analysis. For its robustness, we check some results in STATA if we find it convenient.

All financial data are presented in thousands of Serbian dinars.

We are aware of the limited time series of analyzed data. We also believe that the accounting information of presented book values is fair enough for this analysis.

RESULTS AND DISCUSSION

The sources of financing permanent investment regularly come from the increase of own capital (either from profit or from new payments by the founders) and the long-term finance, mainly loans. Occasionally, during a period of crisis, short-term financing may be used for providing investment in permanent or long-term assets. The economy of Serbia experienced a period of crisis in 2014 due to a catastrophic flood that lasted for more than a month and caused severe consequences on the economy at that time. Due to the above-mentioned flood, entrepreneurial capital suffered severe losses and investments in permanent assets were generally financed with short-term liabilities.

During the period from 2015 to 2020, the increase in permanent assets was financed from own capital and from long-term liabilities, mainly loans. During the first part of that period, enterprises invested their own money in new permanent assets. In 2019 and 2020, the usage of long-term loans increased considerably to 36% in 2019 and 73% in 2020.

Table 1: Aggregated changes in permanent assets, own capital, and liabilities during the period from 2013 to 2020 – All enterprises in Serbia

	2014	2015	2016	2017	2018	2019	2020
Net increase in permanent assets	241.648.570	118.076.391	354.206.684	450.916.793	406.426.291	789.867.257	467.238.089
Increase campared to the previous							
year in %	3%	2%	5%	6%	5%	9%	5%
financed by:							
1. own capital	(260.078.509)	206.124.364	383.463.277	407.067.224	523.487.446	502.061.777	127.307.907
2. long-term liabilities	159.445.738			43.849.569		287.805.480	339.930.182
3. short-term liabiliteis	342.281.341	(88.047.973)	(29.256.593)	-	(117.061.155)	-	-
Ratio: Capital / Permanent assets	-108%	175%	108%	90%	129%	64%	27%

Source: Authors' calculation

Investments in permanent assets of all enterprises increased continually on an annual basis from 2014 to 2020 between two and nine percent. At the same time, except in 2014, enterprises' capital also increased. In 2015, 2016, and 2018, the increase in own capital was high enough to finance the increase in permanent assets. In 2017, 2019, and 2020 the funds needed for investments in permanent assets included own capital and long-term liabilities. The usage of long-term liabilities for financing permanent assets increased significantly in 2019 and 2020.

Analyzed by sectors, the most significant shares of the investments in permanent assets changed on an annual basis. In 2014, 39% of investments in permanent assets were related to the construction sector, and 18% to transportation and storage. This phenomenon may be attributed to the recovery from the consequences of the catastrophic flood that year. The most significant investments over the period were realized in the manufacturing sector (16%), transportation and storage sector (14%), construction sector (11%), and agriculture, forestry, and fishing sector (10%).

Table 2: Net increase/decrease in permanent assets by sectors

									1-	J - Information	
	A - Agriculture,						G - Wholesale	H-	Accomodation	and	
	forestry and		C -	D - Electricity,	E - Water	F-	and retail	Transportatio	and food	communicatio	
Period	fishing	B - Mining	Manufacturing	gas, steam	supply	Construction	trade	n and storage	service act.	n	All enterprises
2014-2013	23.313.614	23.496.534	(10.189.046)	15.213.774	(2.041.440)	95.133.814	(8.159.683)	43.012.464	6.276.930	4.354.654	241.648.570
Share	10%	10%	-4%	6%	-1%	39%	-3%	18%	3%	2%	100%
2015-2014	83.387.558	(45.936.151)	48.136.506	(32.889.592)	5.918.066	(4.461.752)	8.773.953	(82.945.718)	8.081.121	19.008.609	118.076.391
Share	71%	-39%	41%	-28%	5%	-4%	7%	-70%	7%	16%	100%
2016-2015	8.394.312	(604.611)	39.416.255	27.180.098	8.047.633	32.510.080	(1.502.327)	32.776.808	(3.781.609)	5.690.685	354.206.684
Share	2%	0%	11%	8%	2%	9%	0%	9%	-1%	2%	100%
2017-2016	105.418.721	1.803.147	101.174.021	131.771.456	952.608	31.554.245	30.579.040	31.090.919	8.768.878	10.167.622	450.916.793
Share	23%	0%	22%	29%	0%	7%	7%	7%	2%	2%	100%
2018-2017	44.143.459	20.087.561	39.547.783	80.388.981	(21.530.391)	40.439.724	47.096.614	89.054.391	6.108.260	46.047.343	406.426.291
Share	11%	5%	10%	20%	-5%	10%	12%	22%	2%	11%	100%
2019-2018	(9.644.602)	32.390.668	109.576.439	36.817.881	40.302.447	72.087.236	38.325.757	180.096.682	18.194.823	111.353.056	789.867.257
Share	-1%	4%	14%	5%	5%	9%	5%	23%	2%	14%	100%
2020-2019	21.287.784	58.468.846	130.183.075	(57.694.134)	17.356.442	36.055.020	51.082.420	92.631.845	24.237.663	31.226.849	467.238.089
Share	5%	13%	28%	-12%	4%	8%	11%	20%	5%	7%	100%
Total increase over											
the period	276.300.846	89.705.994	457.845.033	200.788.464	49.005.365	303.318.367	166.195.774	385.717.391	67.886.066	227.848.818	2.828.380.075
Share	10%	3%	16%	7%	2%	11%	6%	14%	2%	8%	100%

Source: Authors' calculation

In 2014 almost all enterprises financed their investments in permanent assets with their own capital. From 2015, the construction sector, transportation and storage sector, and accommodation and food services sector started to use long-term loans to finance investments in permanent assets.

Table 3: The structure of funds (own capital and long term liabilities) used to finance the increase of permanent assets, by sectors

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									1-	J - Information	
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	forestry and		c -	D - Electricity,	E - Water	F-	and retail	Transportatio		communicatio	All
Period	fishing	B - Mining	Manufacturing	gas, steam	supply	Construction	trade	n and storage	service act.	n	enterprises
2014-2013											
Own capital	30%		100%		100%	91%		100%	100%	100%	
Long term liabilities	6%					1%					66%
2015-2014											
Own capital	92%	84%	89%	100%	100%	100%	100%				100%
Long term liabilities	8%								38%		
2016-2015											
Own capital	100%		100%		41%	32%		9%	35%	100%	100%
Long term liabilities						68%		41%	44%		
2017-2016											
Own capital	99%	100%	100%	91%		51%	32%	50%	10%	100%	90%
Long term liabilities	1%				52%	49%	68%		9%		10%
2018-2017											
Own capital	20%	100%	100%	8%	100%	43%	100%	69%	80%	55%	100%
Long term liabilities	80%			61%		57%		31%			
2019-2018											
Own capital		100%	100%	100%	84%	66%	100%	15%	31%	21%	64%
Long term liabilities	100%				12%	34%		15%	43%	58%	22%
2020-2019											
Own capital	98%			100%		100%	100%		15%	100%	27%
Long term liabilities		39%	88%		100%			11%	85%		77%

Note: If the increase in own capital is higher than or equal to the increase in permanent assets, we assume that the total growth is financed by own money (100%). If an increase in own capital is less than the increase in permanent assets, an increase financed with long-term liabilities is allocated to the increase in capital up to 100%. If the sum of both percentages is less than 100%, the difference of growth of permanent assets is financed with short-term financial liabilities.

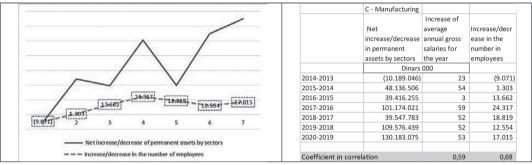
The most significant increase in the number of employees from 2014 to 2020 can be seen in the manufacturing sector, followed by the wholesale and retail trade sector, information and communication sector, and construction sector. On the other hand, mining and agriculture, forestry, and fishing sectors experienced significant negative migration of employees.

Table 4: Increase/decrease in the number of employees by sectors

									1-	J - Information	
	A - Agriculture,						G - Wholesale	н-	Accomodation	and	
	forestry and		C -	D - Electricity,	E - Water	F-	and retail	Transportatio	and food	communicatio	
Period	fishing	B - Mining	Manufacturing	gas, steam	supply	Construction	trade	n and storage	service act.	n	All enterprises
2014-2013	(1.656)	1.488	(9.071)	(610)	(1.104)	(3.404)	(3.234)	(56)	(799)	(650)	(18.839)
Share	9%	-8%	48%	3%	6%	18%	17%	0%	4%	3%	100%
2015-2014	(887)	(13.350)	1.303	9.595	(354)	(1.515)	6.279	799	3.676	4.653	14.839
Share	-6%	-90%	9%	65%	-2%	-10%	42%	5%	25%	31%	100%
2016-2015	(1.284)	(195)	13.662	3.539	97	759	8.653	1.634	(1.735)	-	45.157
Share	-3%	0%	30%	8%	0%	2%	19%	4%	-4%	0%	100%
2017-2016	9	(111)	24.317	(1.336)	(170)	769	4.247	1.427	3.909	2.462	45.050
Share	0%	0%	54%	-3%	0%	2%	9%	3%	9%	5%	100%
2018-2017	(101)	1.393	18.819	(1.006)	548	4.329	-	517	3.065	2.250	50.120
Share	0%	3%	38%	-2%	1%	9%	0%	1%	6%	4%	100%
2019-2018	(816)	709	12.554	(912)	113	6.086	13.961	1.114	3.030	2.510	43.135
Share	-2%	2%	29%	-2%	0%	14%	32%	3%	7%	6%	100%
2020-2019	(739)	2.138	17.015	(571)	(548)	3.543	4.502	2.023	(458)	11.729	43.592
Share	-2%	5%	39%	-1%	-1%	8%	10%	5%	-1%	27%	100%
Total 2014-2020	(3.827)	(9.305)	63.353	10.645	(144)	13.202	33.395	6.087	7.578	21.142	196.843

Source: Authors' calculation

To measure the impact of the investments in permanent assets on the number of employees, we used the coefficient of correlation. The correlation coefficient between the investments in permanent assets and the increase in the number of employees is significant only in the manufacturing sector – 0.69, while the one between the investments in the permanent assets and the growth of average annual gross salaries is 0.59.



Source: Authors' calculation

Figure 1: Movements in annual investments in permanent assets and annual increase in the number of employees in the manufacturing sector

Different phenomena were found in the agricultural sector and information and communication sector. Although investments in permanent assets in the agrarian sector continually increase, the number of employees in that sector constantly decreases. The coefficient of correlation between investments in permanent assets and the change in the number of employees is 0.55, i.e. investments of fifty million dinars (EUR 400,000) contribute to a decrease in the number of employees by one. On the other hand, investments of ten million dinars (EUR 82,000) in the information and communication sector contribute to the increase in the number of employees by one. The reasonable explanation for the ITC sector phenomenon is that this sector is based on knowledge, but the value of knowledge is not recognized in financial statements.

All sectors experienced an increase in salaries over the period. The highest growth in salaries was realized in the information and communication sector. Electricity, gas and steam and construction sectors were slightly above the average. The growth in salaries in the agriculture, forestry and fishing sector, and wholesale and retail trade were about average, in manufacturing, water supply, and transportation and storage sector were slightly below average, and in mining and accommodation and food service activities sectors were far below average. We have not noticed any correlation between the investment in permanent assets, the increase in the number of employees, and the increase in salaries.

Table 5: Annual increase in average gross salaries

									1-	J - Information	
	A - Agriculture,						G - Wholesale	н-	Accomodation	and	
	forestry and		C -	D - Electricity,	E - Water	F-	and retail	Transportatio	and food	communicatio	All
Period	fishing	B - Mining	Manufacturing	gas, steam	supply	Construction	trade	n and storage	service act.	n	enterprises
2014-2013	22	- 24	23	57	28	94	28	25	- 12	145	35
2015-2014	20	- 48	54	- 446	7	39	24	- 75	- 32	- 1	4
2016-2015	15	20	3	686	1	- 73	41	138	105	200	53
2017-2016	30	96	59	175	71	89	52	30	- 11	81	60
2018-2017	132	- 34	52	- 6	37	47	112	54	35	213	58
2019-2018	39	197	52	58	62	163	30	90	57	102	75
2020-2019	103	- 6	53	- 38	133	62	78	43	- 16	221	73
Total 2013-2020	361	202	296	487	339	421	366	306	127	960	359

Source: Authors' calculation

Statistical results calculated in Excel are additionally confirmed in STATA program by using absolute nominal values of permanent assets, the number of employees, and long-term liabilities (instead of changes as presented in tables 1 to 5).

Table 6: The correlation between employment, permanent assets, and long-term liabilities

	А	griculture	!	Manufacturing				ormation a	
Variable	EMP	PA	LTL	EMP	PA	LTL	EMP	PA	LTL
EMP	1.000			1.000			1.000		
PA	- 0.913*	1.000		0.980*	1.000		0.926*	1.000	
LTL	- 0.900*	0.949*	1.000	0.749*	0.800*	1.000	0.564	0.578	1.000

Note 1: EMP – Employees; FA – Permanent assets; LTL – Long-term loans.

Note 2: * Represents statistical significance at 5 percent

Source: Authors' calculation

The results in Table 6 show the correlation coefficient between the number of employees, permanent assets, and long-term liabilities in three entrepreneurial sectors calculated in STATA program. There is a positive, high correlation between employment and permanent assets in the manufacturing industry, statistically significant. The investments in permanent assets have been accompanied by an increase in the number of employees. In addition, the increase in long-term liabilities is connected with employment growth, and this relationship is statistically significant. The positive, high, and statistically significant relationship between the number of employees and permanent assets can be seen in the information and communication sector as well. The relationship between employment and long-term liabilities is positive but moderate, and it is not statistically significant.

However, the correlation coefficient between employment and permanent assets is negative, high, and statistically significant in agriculture. It means that investments in permanent assets are related to a decrease in the number of employees in agriculture. This result confirms that investment in permanent assets contributes to the improvement of agriculture technology but reduces the need for labor. In addition, the increase in the long-term liabilities is related to the decrease in employment. We can also see that the correlation between permanent assets and long-term liabilities is positive, high, and statistically significant, like in manufacturing, indicating the use of long-term finance for permanent asset investments. On the other hand, the correlation between permanent assets and long-term liabilities in the information and communication sector is positive but statistically insignificant.

Table 7: Partial correlation between employment and permanent assets

Agric	ulture	Manufa	acturing	Information and			
				commu	nication		
Partial	Significance	Partial Significance		Partial	Significance		
correlation	Value	correlation	Value	correlation	Value		
- 0.429	0.337	0.957	0.001	0.891	0.007		

Given that long-term liabilities have an impact on both the number of employees and permanent assets, it is necessary to determine the correlation between employment and permanent assets, excluding the impact of long-term liabilities. For that reason, the partial correlation coefficient was calculated in STATA. The results in Table 7 confirm a positive and high correlation between employment and permanent assets in the manufacturing and information and communication sectors, without the impact of long-term liabilities on both variables. We can conclude that the increase in the number of employees is related to investments in permanent assets, and this relationship is statistically significant at a 1 percent level. On the other hand, the partial correlation coefficient between employment and permanent assets in agriculture is negative and lower than the correlation coefficient. We can conclude that investments in permanent assets are related to the decrease in employment in agriculture, but this relation, without the impact of long-term liabilities, is statistically insignificant.

CONCLUSION

We assumed that the higher investment contributes to the increase in the number of employees and their salaries and contributes to better economic development of that sector.

Aggregated changes in permanent assets of all enterprises in Serbia show their continual increase. During the period from 2015 to 2020 permanent assets were financed with capital and from long-term loans. During the first part of that period, permanent assets were funded mainly with their capital. In 2019 and 2020, the usage of long-term loans increased considerably to 36% in 2019 and 73% in 2020.

UČINAK ULAGANJA U STALNA SREDSTVA NA POVEĆANJE BROJA ZAPOSLENIH I NJIHOVIH ZARADA U PREDUZETNIM SEKTORIMA

REZIME

Ključne reči: Marginalna ulaganja; marginalan broj zaposlenih; privredna društva; Srbija.

Cilj ovog rada je da prepozna učinak ulagania u stalna sredstva na broj zaposlenih po sektorima, i na visinu zarada zaposlenih. Podaci za rad preuzeti su iz Godišnjeg biltena finansijskih izveštaja koji izdaje Agencija za privredne registre Republike Srbije. Baza podataka obuhvata zbirne podatke svih privrednih društva u Srbiji i njihovu analitiku po sektorima delatnosti, za period od 2013. do 2020. godine. Rezultati ispitivanja pokazuju visoku pozitivnu korelaciju između ulaganja u stalna sredstva i broja zaposlenih u prerađivačkoj delatnosti i delatnosti informisanja i komunikacije, i negativnu korelaciju u delatnosti poljoprivrede. Nije utvrđena značajna korelacija između ulaganja u stalna sredstva i rasta broja zaposlenih sa rastom njihovih zarada.

The investments in permanent assets were accompanied by the increase in the number of employees and the increase in long-term liabilities, at a statistically significant level. The positive, high, and statistically significant relationship between the number of employees and permanent assets was also found in the information and communication sector. The relationship between employment and long-term liabilities is also positive but moderate, not statistically significant. In the agricultural industry, the correlation between the increase in employment and the increase in permanent assets is negative. It means that investments in permanent assets in agriculture resulted in a decrease in the number of employees in that sector.

We have not noticed a significant correlation between the investment in permanent assets, the increase in the number of employees, and their salaries.

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