DOES TAX EVASION SIGNIFICANTLY CONTRIBUTE TO OVERALL ECONOMIC CRIME IN SERBIA?

Goranka Knežević1*, Vladan Pavlović2, Kivanç Halil Arıç3

1Singidunum University, Belgrade, Serbia
2University of Pristina - K. Mitrovica, Faculty of Economics, K. Mitrovica, Serbia
3Sivas Cumhuriyet University, Faculty of Economics and Administrative Sciences, Department of International Trade and Logistics, Turkey

Abstract:
Tax evasion is one of the main types of economic crime conducted by entities and individuals. We have shown that number of individuals prosecuted for tax evasion contributed in 2014 with 28.67% of total prosecuted economic crime acts, and then it rose to 57.45% in the year 2018. That implies that the tax modernization project which covers the period from 2018 to 2023 is a project of great importance.

Keywords:
tax evasion, economic crime.

1. INTRODUCTION

At the global level economic fraud cost the economy 3.6 billion US $ (ACFE, 2020). Among economic crime, tax evasion is one of the main types of crime conducted by entities and individuals. In this article, we will focus on entities’ tax evasion. Tax evasion is one of the main problems in transition economies influencing not only governmental revenue and budget but also governmental spending and it raises inequality between honest taxpayers and tax evaders. In terms of not being caught tax evaders are exposed to low risk and high return in comparison with the honest taxpayers. Many researchers show interest in tax evasion trying to determine factors that influence it (Abdixhiku, 2013). There are micro and macro factors influencing tax evasion. Among macro factors, there are tax rates, tax structure, tax system, country general macroeconomic factors such as inflation, corruption level, political system, the legal system, and the possibility of individuals and firms to be detected. Among micro factors tax, morale, firm characteristics, profitability, leverage, capital intensity ratio, and other factors influence firms to evade taxes. In Serbia, as a transition economy, many factors influence tax evasion. Savić, Dragojlović, Vujošević, Arsić and Martić (2015) show that in 18 European countries including Serbia the efficiency of tax administration affects tax evasion. The main goal of this research is to investigate the influence of the number of employees in tax administration and employment rate on the grey economy level. The assumption is that an increase in the total number of employees in the tax administration will have a negative impact on the level of the grey economy. Ranđelović (2014) provides evidence on the impact of the change in income tax rates and the degree of its progressiveness on the scale of labor tax evasion in Serbia. Evading payroll taxes in Serbia are quite a common scheme of tax evasion. Our research was built on the theoretical assumption that the higher is the ability of being caught more efficient is the tax system.
If there are more individuals prosecuted the better are legal rules and law enforcement system implying a higher probability of being caught for tax evasion.

To develop this idea, our paper is structured as follows. Firstly, economic crime and tax evasion are defined contextually. After that, we developed an extensive literature review regarding tax evasion and its influencing factors, followed by the descriptive statistics and discussion of the results.

2. ECONOMIC CRIME AND TAX EVASION

There are many different aspects to defining tax evasion. Tax evasion is a criminal act that is part of economic crime. Economic crime is an illegal act committed within a business to gain economic advantages (Appelgren, & Sjogren, 2001: according to Sjogren, & Skogh, 2004 p.128). In the same book, there is a distinction made between white-collar crime as a term used by Sutherland in 1949 which describes criminals in respect of their profession and characteristics, while the term occupational fraud used by ACFE in its Report to the Nations is a much wider term covering corruption, asset misappropriation, and financial statement fraud. Occupational fraud is the use of one’s occupation for personal enrichment through the deliberate misuse or misapplication of the employing organizations’ resources of assets (ACFE, 2020).

Economic crime consists of many different violations of the Criminal Law such as fraud in performing an economic activity, insurance fraud, embezzlement in economic activity, abuse of trust in performing an economic activity, tax evasion, failure to pay withholding taxes, abuse of the position of a responsible person, misfeasance in public procurement, abuse in the process of privatization, restricting deals, taking bribes, giving bribe, bankruptcy fraud, false bankruptcy, damaging creditors, smuggling, unauthorized trade, unauthorized manufacturing, unauthorized use of another business name, damaging business image and credit standing, counterfeiting money, revelling business secrets, forging securities, forgery, and misuse of credit cards, forgery of trademarks, making and giving others means of falsification a money laundering. So, tax evasion is only one tax scheme conducted by fraudsters.


Tax evasion is defined as a managerial decision not to fully report a taxable corporate profit to reduce tax payment (Sandmo, 2005). According to this author, tax evasion is a violation of the law, while tax avoidance is an action done within the legal framework. Alm, Martinez-Vazquez and McClellan (2016) define tax evasion as „illegal and intentional action taken by the individuals to reduce their legally due taxes...by underreporting income, overstating deductions, exemptions or credits, by failing to file appropriate tax returns or even engaging in barter... while in the corporate income tax returns firm can underreport income, overstate deductions or fail to file tax returns.”

In the above-mentioned definitions, it is obvious that legal perspective and academic perspective on defining tax evasion have one common aspect – at the corporate level tax evasion is done by using different transactions. In the context of corporations, tax evasion is done by using accounting techniques of recognition and measurement of accounting items such as revenues and expenses correlated with the preparation of false accounting documents (invoices and reports) to avoid legal tax obligations. If we take into consideration indirect taxes such as VAT (value-added taxes) those accounting transactions and its connection to the tax evasion is even more obvious (fail to register for VAT, underreport sales, present false invoices that allow a corporation to underestimate their tax liability). Therefore, all of these transactions to evade taxes are finally materialized in operating profit before taxes and influence the income tax base itself.

“Plan of income tax controls” issued by the Serbian Internal revenue Service in the year 2019 stated micro factors that are correlated with the huge risk of tax avoidance and tax evasion. This factor is the size of company measured by operating revenues and operating expenses and the % of operating profit in the total revenue. Efficiency of tax audit depends on risk factors and companies with higher operating profit are more included in the tax audit.
3. LITERATURE REVIEW

There is a wide variety of academic literature regarding tax evasion. Many articles explain the interrelationship between corruption and firm tax evasion. Alm et. al (2016) demonstrate that the corruption of tax officials is a statistically and economically significant determinant of tax evasion. In the article of Alon and Hageman (2013) explanations were made regarding the correlation between firm tax compliance and corruption in 5000 firms from 22 transition economies from the former Soviet Union. Abdixhiku, Krasniqi, Pugh and Hashi (2017) found that the tax evasive behavior of firms is positively influenced by low trust in government and judicial system. Authors also find that individual businesses such as sole proprietorship and micro entities are less visible to tax authorities and are much more involved in tax evasion. Pashev (2008) makes a correlation between tax compliance of small and medium-sized entities and corruption in Bulgaria.

McGee (2008) elaborates on the opinions of tax evasion in Asia and found that in Asia women are more opposed to tax evasion than men and older people also opposed more to tax evasion than younger people. Brink and Porcano (2016) show that multiple cultural and structural variables have a direct impact on tax evasion. Androniceanu, Ghergina and Ciobănașu (2019) found that the reduction of tax evasion generates a considerable increase of the macroeconomic indicators. Đurović-Todorović, Ristić and Đorđević (2018) show that the number of tax inspectors and the number of controls with irregularities have a positive, statistically significant impact on the volume of tax evasion in Serbia.

Irianto, Sudibyo and Wafirli (2017) try to assess the influence of size, leverage, capital intensity, and profitability on tax avoidance. Size has a positive influence on the effective tax rate, while profitability, capital intensity, and leverage have no significant influence. Aminah, Chairina and Sari (2018) found that profitability and political connections have influence on tax avoidance.

Allingham and Sandmo (1972) show that probability of detection influences tax avoidance, and it is dependent on the amount of income reported. Tax authorities believe that rich individuals are most likely to evade their taxes.

Erickson, Halon and Maydew (2004) stated that publicly listed firms main incentive is to report higher earnings at the expense of paying higher taxes.

Slemrod (2007) finds that business plays a central role in the tax system of any country. There is a huge non-compliance of US businesses in the area of corporate income taxes, so-called tax gap was estimated to be 30 billion US $ in 2001. But the estimated non-compliance rate of larger companies is lower, while for medium-sized companies tax gap is wider.

In the US tax gap is evaluated using US General Accounting office data – for small companies using IRS Taxpayer Compliance Measurement Program data, while for medium-sized companies the gap is calculated using operation audits and for large companies that are routinely investigated by the IRS calculations of tax gap or misrepresentation of tax reporting and non-compliance is directly calculated.

According to the literature review given in the previous section, the following research question is developed:

**Does the tax evasion contribute more to the economic crime in Serbia than other types of fraud?**

The stricter legal system and better tax administration is more capable of dealing with tax evaders therefore more people will be prosecuted for tax evasion. Since 2015 Serbian Government adopted STA transformation program for the period 2015-2020 which is supported and coordinated by the World Bank Tax administration modernization project with the main goal of improving collectiveness of taxpayers and lowering the compliance burden for taxpayers. In the year 2016 Tax administration diagnostic report was issued showing that Serbian tax administration is less automated and there is a limited accuracy of data gathered per each registrant in the tax system. That is why tax modernization is one of the key goals of the Serbian Government. We do expect that by modernization of tax system in Serbia there will be less individuals prosecuted for the tax evasion in years to come.

First tax modernization project covers a period of six years from 2018 to 2023. The first component of this project brings changes in the legal environment in terms of decreasing number of loopholes in the tax legal system. The second is human resource change and capacity building and tax operations. The third is a management modernization and digitalization or ICT system building. The fourth component is a project management and change management. Reengineering of the existing business processes will be done during this project and activities included are: tax registration, tax accounting and audit control. In the year to come, we strongly believe that the tax system will be efficient and tax audits will help to find tax evasion areas, to decrease loopholes in those areas and to prosecute less individuals for this type of crime. Tax modernization reform should affect fraudsters in Serbia not to commit this type of crime and its contribution to the economic crime percentage in the future should be lower.
4. METHODOLOGY OF THE RESEARCH

Five years of observations of the tax evasion and economic crime data are included in this paper. Data are obtained from the Statistical Office of the Republic of Serbia.

Internal validity is the extent to which we achieve matching the structure of research design with the unambiguous conclusions. In this study, we use secondary sources of data that we think match the needs of our research. There is a low risk of bias or error in the research results because the secondary data source can be determined to be reliable (Statistical office of the Republic of Serbia).

5. RESULTS AND DISCUSSION

In Table 1 results regarding the comparison between prosecuted economic crime and prosecuted tax evasion are given.

Table 1. Comparison between prosecuted economic crime and prosecuted tax evasion in Serbia in the period 2014-2018

<table>
<thead>
<tr>
<th>Year</th>
<th>Prosecuted individuals for economic crime</th>
<th>Prosecuted individuals for tax evasion</th>
<th>% of tax evasion criminal acts in total economic crime</th>
</tr>
</thead>
<tbody>
<tr>
<td>2014</td>
<td>2748</td>
<td>788</td>
<td>28,67</td>
</tr>
<tr>
<td>2015</td>
<td>2570</td>
<td>778</td>
<td>30,27</td>
</tr>
<tr>
<td>2016</td>
<td>2375</td>
<td>643</td>
<td>27,07</td>
</tr>
<tr>
<td>2017</td>
<td>2015</td>
<td>649</td>
<td>32,2</td>
</tr>
<tr>
<td>2018</td>
<td>1683</td>
<td>967</td>
<td>57,45</td>
</tr>
<tr>
<td>Total</td>
<td>11391</td>
<td>3825</td>
<td>/</td>
</tr>
</tbody>
</table>

Source: Statistical office of the Republic of Serbia

Taking into consideration only economic crime it is obvious from Table 1 that number of individuals prosecuted for this type of crime decrease from 2014 - 2018. The number of individuals prosecuted for tax evasion decreases from 2014-2017 but shows a significant growth in the year 2018.

According to Table 1 % of individuals prosecuted for tax evasion increase from 28,67% in the year 2014 up to 57,45 % in the year 2018. Based on the results we can conclude that tax evasion is considered to be one of the most important criminal acts within the economic crime in Serbia in the 5 year period taken in observation.

Table 2. Prosecuted individuals for the economic crime in the period 2014-2018

<table>
<thead>
<tr>
<th>Year</th>
<th>Prosecuted individuals for economic crime</th>
<th>Index (Base year 2014=100)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2014</td>
<td>2748</td>
<td>100</td>
</tr>
<tr>
<td>2015</td>
<td>2570</td>
<td>93,52</td>
</tr>
<tr>
<td>2016</td>
<td>2375</td>
<td>86,42</td>
</tr>
<tr>
<td>2017</td>
<td>2015</td>
<td>73,32</td>
</tr>
<tr>
<td>2018</td>
<td>1683</td>
<td>61,24</td>
</tr>
<tr>
<td>Total</td>
<td>11391</td>
<td>-</td>
</tr>
</tbody>
</table>

Source: Statistical office of the Republic of Serbia and authors’ own calculation

Table 2 shows that number of individuals prosecuted for economic crime constantly decreases compared with the base year (2014). In the year 2015 index of individuals prosecuted for this type of crime is 93,5 or it is a decrease of 6,48% compared with the base year. In the year 2016 index is 86,42 or it is for 13,58% lower number of individuals prosecuted than those in the base year. In the year 2017, this index is even lower and it is 73,32 meaning that the number of individuals prosecuted for an economic crime is 26,68% lower than in the base year. The same conclusion can be drawn for 2018 where the number of individuals prosecuted is 38,76% lower than in the year 2014.
Therefore, modernizing the legal system and preventive measures in the period 2014-2018 were effective in terms of reducing the number of people willing to commit this type of crime. If individuals are more aware of being caught they will less use their abilities to commit this type of crime.

Table 3. Prosecuted individuals for the tax evasion in the period 2014-2018

<table>
<thead>
<tr>
<th>Year</th>
<th>Prosecuted individuals for tax evasion</th>
<th>Index (Base year 2014=100)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2014</td>
<td>788</td>
<td>100</td>
</tr>
<tr>
<td>2015</td>
<td>778</td>
<td>98,73</td>
</tr>
<tr>
<td>2016</td>
<td>643</td>
<td>81,59</td>
</tr>
<tr>
<td>2017</td>
<td>649</td>
<td>82,36</td>
</tr>
<tr>
<td>2018</td>
<td>967</td>
<td>122,71</td>
</tr>
<tr>
<td>Total</td>
<td>3825</td>
<td></td>
</tr>
</tbody>
</table>

Source: Statistical office of the Republic of Serbia and authors’ own calculation

Table 3 shows the number of individuals prosecuted for the tax evasion and respective index numbers. It is shown that number of individuals prosecuted decrease in the year 2015 for only 1,27% which is much lower than individuals prosecuted for the economic crime in the same period, showing that tax evasion is much more rigid crime component than other types of economic crime. In the year 2015 decrease is 18,41% compared with the base year (2014), while in the year 2016 decrease is 17,64%. The last year taken into considerations shows an extreme and abrupt change in the number of individuals. The index is 122,71 meaning that more individuals are caught for tax evasion in this year than in the base year. The number increased for 22,71%, implying that preventive measures and efficient tax system started to show its effects in this year. This could be a result of all measures applied in the whole 5 year period in questions whose effects accumulated in the year 2018, so that is why large increase is shown. Serbia started to change its tax administration by educating more tax officials since the year 2014. This could also contributed to the results for the year 2018.

Table 4 shows that in a five year period a minimum number of individuals prosecuted for an economic crime is 1683 and a maximum of 2748, while the mean number is 2278. The standard deviation is 430 individuals, showing a large deviation from the sample mean.

For tax evasions situation is different. Mean number of individuals prosecuted is 765 while standard deviation is 132. Fluctuating number of individuals prosecuted for both types of crime support the idea of efficient tax administration in Serbia in the above mentioned period of time.

Both standard deviations are high implying that 5-year period taken into consideration in this descriptive analysis shows large variations in observing variables.

6. CONCLUSION

The research question has been confirmed by the data showing that tax evasion significantly contributes to the economic crime in Serbia in the last 5 years (the period from 2014 to 2018). According to the data, prosecuted individuals for tax evasion contributed in 2014 with 28.67% of total prosecuted economic crime acts, and then it rose to 57.45% in the year 2018. Therefore, by showing a double increase in the mentioned period, conclusion regarding more efficient legal system and tax administrative system can be drawn. Other researchers show that tax rate, audit probability and fine influence tax evasion (Kiri, 2016).
Allingham and Sandmo (1972) show that the increase in the probability of detection increases the reported income of companies. Tax administration modernization reforms started in 2015 in Serbia. Data in the year 2018 supported the idea that reform is efficient because 50% more individuals are prosecuted for tax evasion than in the year 2014. So, statistics confirm that reform has its effects in building the capacity of tax administration and decreasing loopholes in the legal system.

7. ACKNOWLEDGMENT

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8. LITERATURE