Czech University of Life Sciences Prague

Faculty of Economics and Management

Department of Statistics



Bachelor Thesis

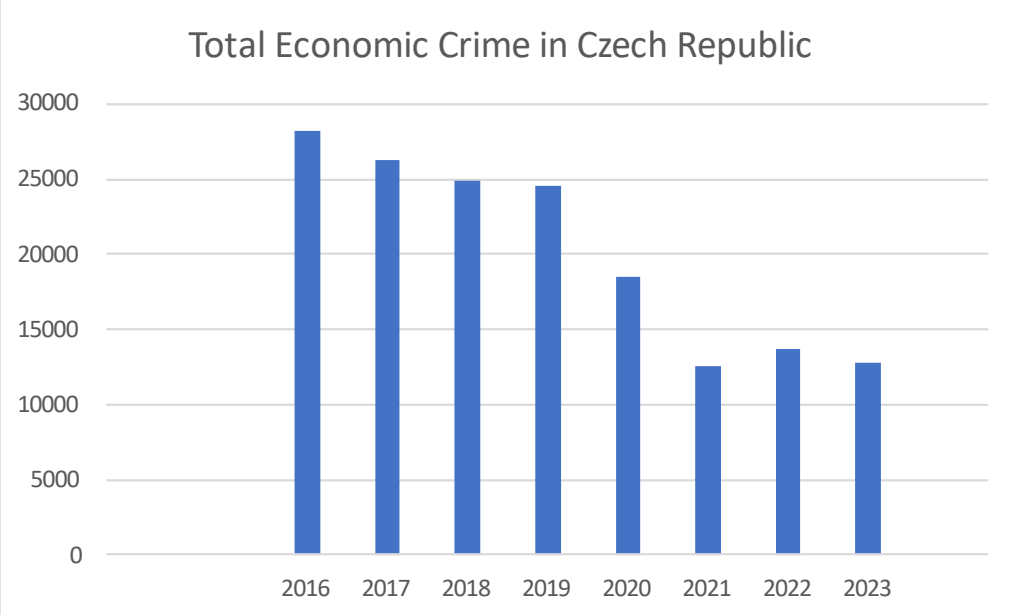
Crime Statistics and Business Environment: Analysis of Economic Crime in the Czech Republic

Kaung Khant Soe

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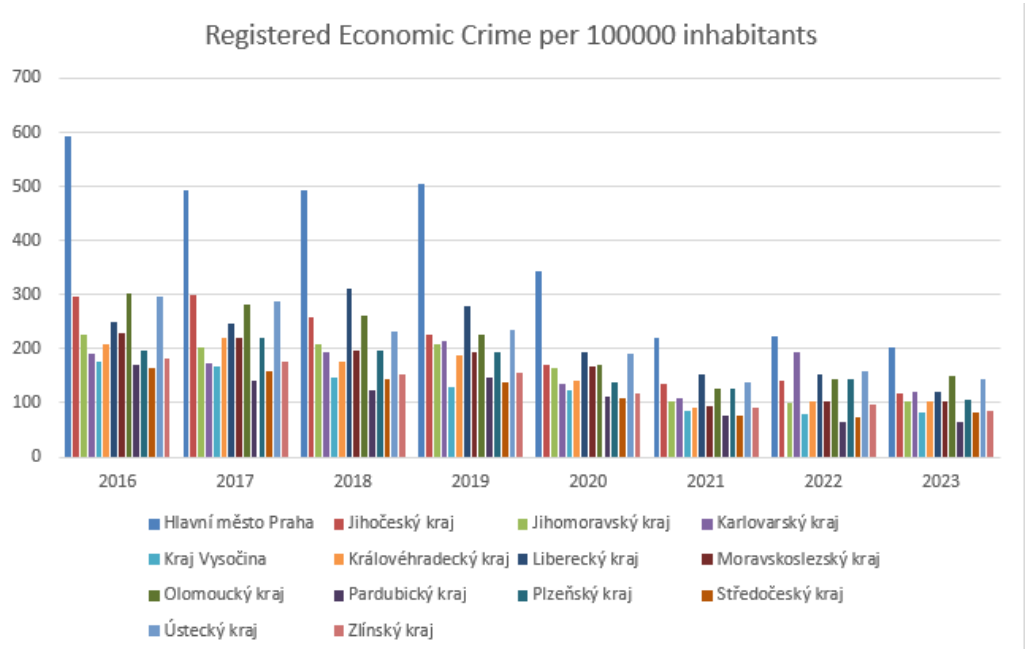
Appendices

Regions /Years	2016	2017	2018	2019	2020	2021	2022	2023
Prague, the Capital City	7,588	6,382	6,445	6,688	4,567	2,813	3,040	2,815
South Bohemian Region	1,886	1,911	1,657	1,448	1,089	870	919	761
South Moravian Region	2,655	2,389	2,477	2,482	1,970	1,211	1,217	1,258
Karlovy Vary Region	567	510	572	634	400	310	567	352
Vysočina Region	901	845	744	665	624	425	409	434
Hradec Králové Region	1,150	1,206	977	1,034	779	499	565	579
Liberec Region	1,102	1,084	1,375	1,239	857	673	687	549
Moravian-Silesian Region	2,754	2,645	2,364	2,315	2,007	1,118	1,219	1,236
Olomouc Region	1,923	1,785	1,659	1,434	1,072	793	904	948
Pardubice Region	877	734	637	766	583	390	339	339
Plzeň Region	1144	1275	1150	1145	823	726	866	651
Central Bohemian Region	2,204	2,129	1,981	1,913	1,510	1,050	1,049	1,186
Ústí nad Labem Region	2,436	2,371	1,911	1,919	1,565	1,113	1,300	1,166
Zlín Region	1,058	1,028	888	907	682	519	556	491
Total Economicl Crime in Czech Republic	28,245	26,294	24,837	24,589	18,528	12,510	13,637	12,765



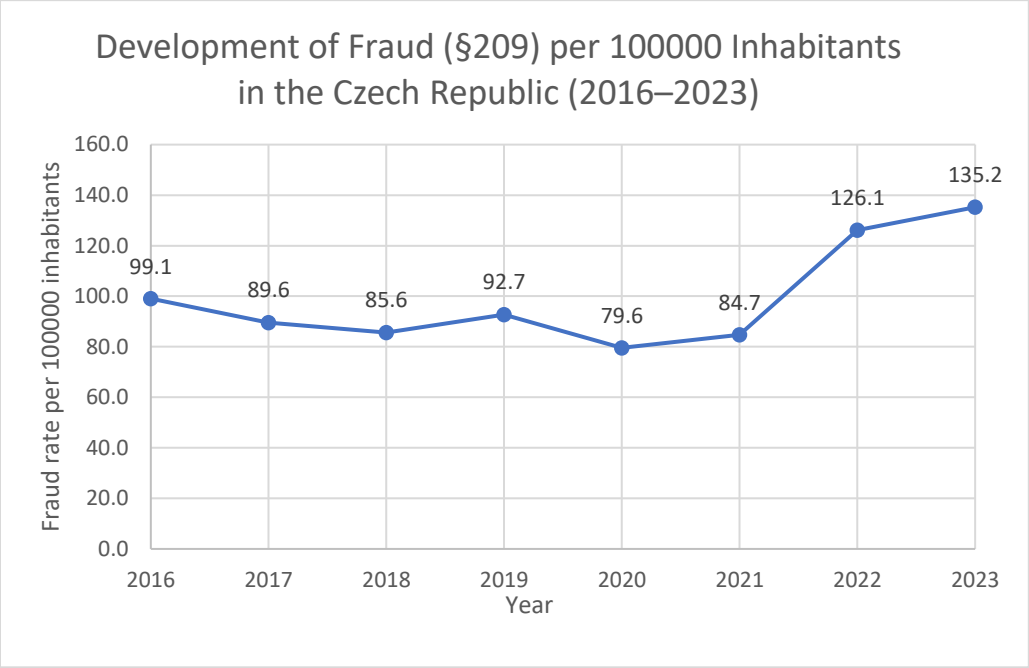
Appendix 1 Total Economic Crime Rate Data Table and Chart

	2016	2017	2018	2019	2020	2021	2022	2023
Hlavní město Praha	592.5773209	493.0039328	492.4990372	505.030292	342.0758544	220.5572186	223.9697759	203.2884342
Jihočeský kraj	295.2493965	298.5023337	258.0462303	224.8157458	169.2173581	136.5676316	140.8854474	116.2710751
Jihomoravský kraj	225.2267537	201.9088798	208.5601435	208.223398	164.8084583	102.231362	99.98356885	102.5474649
Karlovarský kraj	191.0705681	172.4802662	193.9666866	215.1603182	136.3740194	109.4594117	193.1231799	119.290897
Kraj Vysočina	177.0304469	166.0391892	146.0903168	130.4399849	122.6289766	84.32121423	79.45187916	83.79025407
Královéhradecký kraj	208.7857024	218.8394252	177.307217	187.4387063	141.429876	91.96749622	101.7528504	103.9592494
Liberecký kraj	250.0930473	245.6378881	310.8356166	279.2490252	193.6828212	153.8039628	152.9463886	121.8029499
Moravskoslezský kraj	227.6260684	219.3408	196.459899	192.8300538	168.2547613	94.90750763	102.465045	103.9350692
Olomoucký kraj	303.3481879	281.9112477	262.2958077	226.8933491	170.0178582	127.301623	143.0828013	149.7952167
Pardubický kraj	169.6039545	141.6067153	122.4256029	146.557431	111.502976	75.79909741	64.1121414	63.89475271
Plzeňský kraj	197.7087218	219.518746	196.6914783	194.1010241	139.2458391	125.4520854	143.0487555	106.1342672
Středočeský kraj	164.6026608	157.3778732	144.6690795	138.1086835	108.0116767	75.71256338	72.87804356	81.4594008
Ústecký kraj	296.5751415	288.7660155	232.8247576	233.7493072	191.5535297	139.316909	160.0321049	143.7431657
Zlínský kraj	181.2581164	176.3123954	152.3362514	155.6934538	117.5620864	90.66579087	95.77438586	84.54671938



Appendix 2 Registered Crime per 100000 inhabitants Data Table and Chart

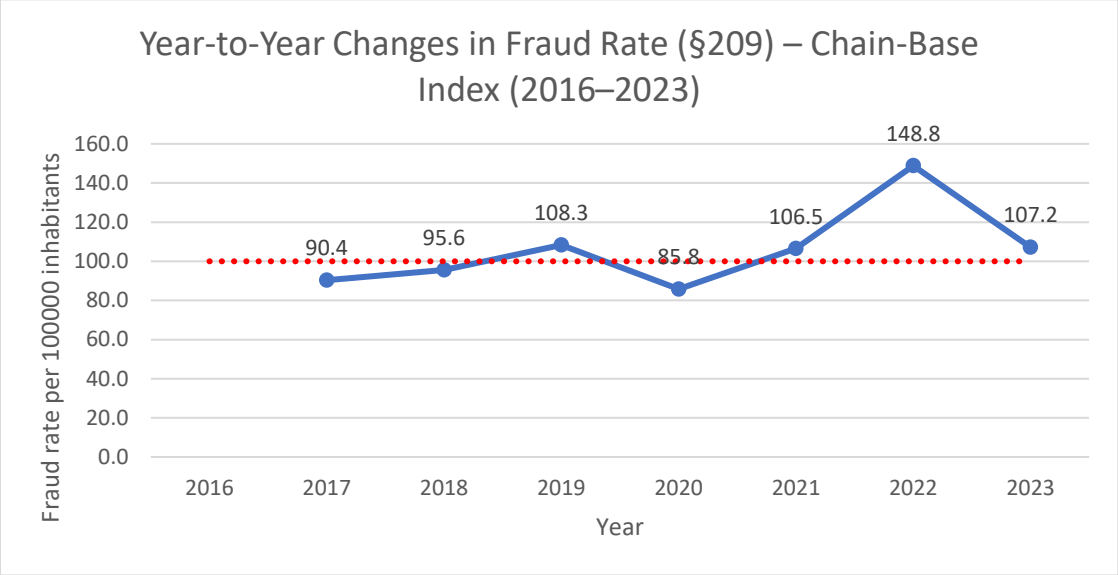
Year	Fraud cases (§209)	Population	Fraud rate per 100000 inhabitants
2016	10479	10578820	99.1
2017	9503	10610055	89.6
2018	9118	10649800	85.6
2019	9917	10693939	92.7
2020	8516	10701777	79.6
2021	8911	10516707	84.7
2022	13652	10827529	126.1
2023	14740	10900555	135.2



Appendix 3 Fraud Rate Data Table and Chart

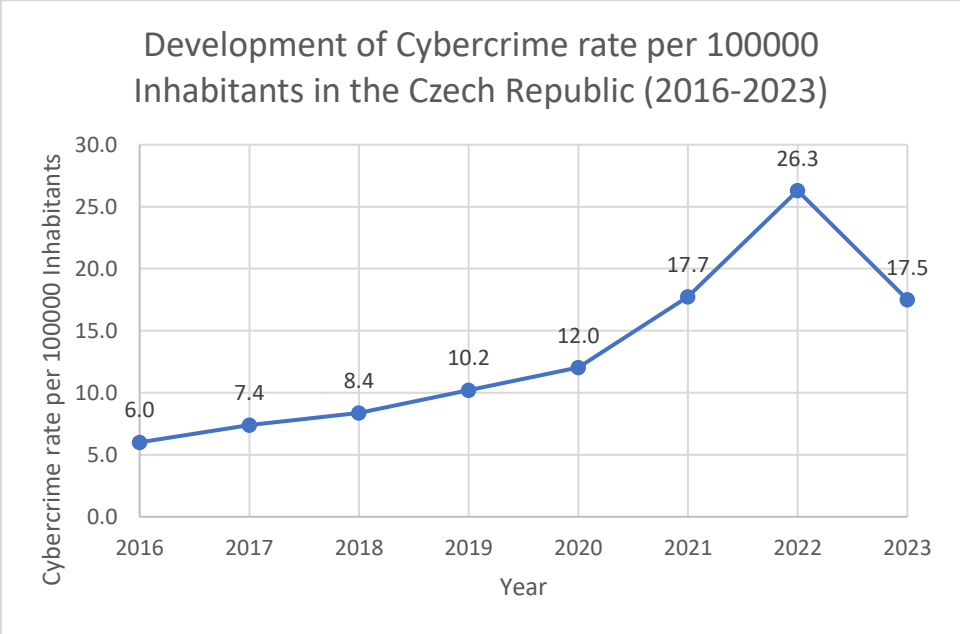
Year	Fraud rate per 100000 inhabitants	Chain-base Index	Fixed-base Index
2016	99.0564165		100
2017	89.56598246	90.4	90.4
2018	85.6166313	95.6	86.4
2019	92.73477247	108.3	93.6
2020	79.57556955	85.8	80.3
2021	84.73184619	106.5	85.5
2022	126.0860165	148.8	127.3
2023	135.2224726	107.2	136.5
2024	125.5877905	92.9	126.8

Appendix 4 Chain-base Index & Fixed-base Index Table of Fraud Rate in the Czech Republic



Appendix 5 Fraud Rate's Chan-Base Index Chart

Year	Cybercrime cases (TSK 865)	Population	Cybercrime rate per 100000
2016	635	10578820	6.0
2017	784	10610055	7.4
2018	893	10649800	8.4
2019	1092	10693939	10.2
2020	1287	10701777	12.0
2021	1866	10516707	17.7
2022	2848	10827529	26.3
2023	1909	10900555	17.5

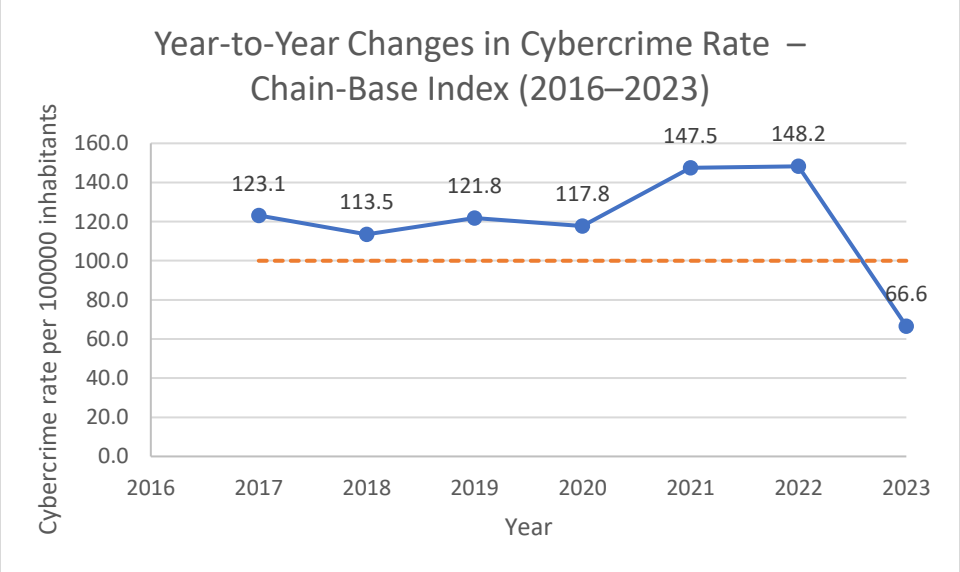


Appendix 6 Cybercrime rate's Data Table and Chart

Year	Cybercrime rate per 100000 inhabitants	Chain-base Index	Fixed-base Index
2016	6.0		100
2017	7.4	123.1	123.1
2018	8.4	113.5	139.7
2019	10.2	121.8	170.1
2020	12.0	117.8	200.3
2021	17.7	147.5	295.6
2022	26.3	148.2	438.2
2023	17.5	66.6	291.8
2024	12.1	68.9	201.1

Appendix 7 Chain-base Index & Fixed-base Index Table of Cybercrime Rate in the Czech Republic

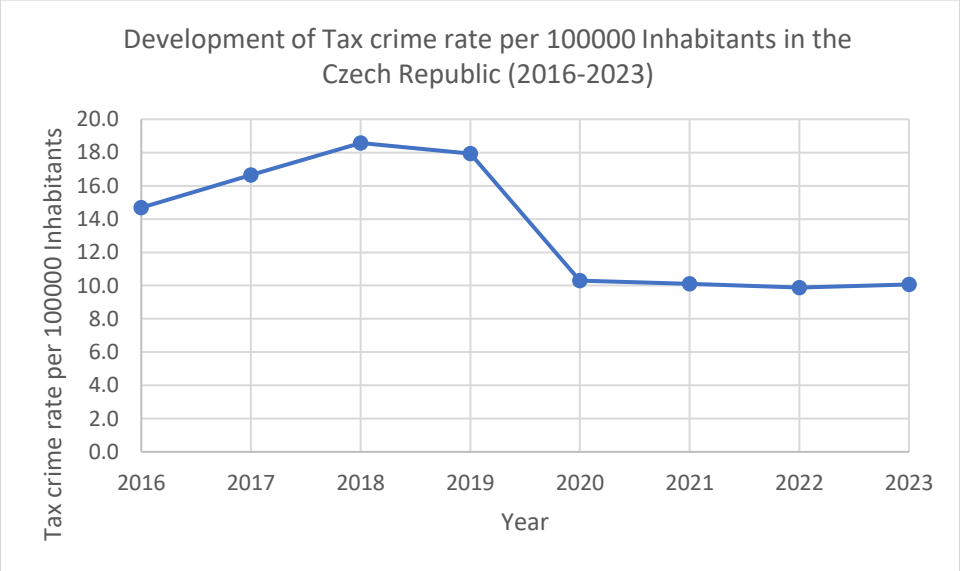
Appendix 8 Cybercrime rate's Chain base index Table



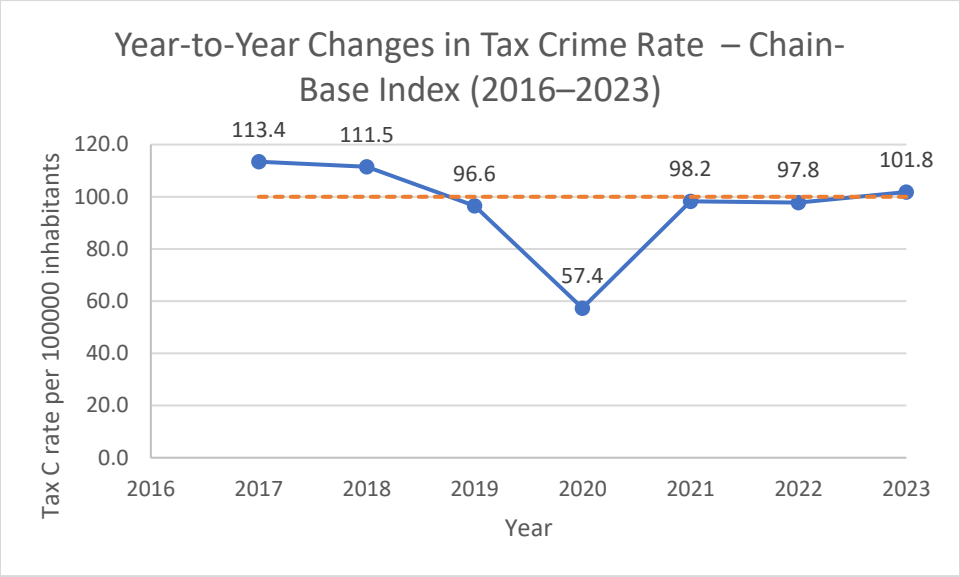
Appendix 9 Cybercrime rate's Chain base index Chart

Year	Tax crime (§ 240 & § 241)	Population	Tax crime rate per 100000 Inhabitants
2016	1553	10578820	14.7
2017	1767	10610055	16.7
2018	1978	10649800	18.6
2019	1918	10693939	17.9
2020	1101	10701777	10.3
2021	1063	10516707	10.1
2022	1070	10827529	9.9
2023	1097	10900555	10.1

Appendix 10 Tax Crime's Data Table



Appendix 11 Tax Crime's Chart



Appendix 12 Tax Crime's Chain base index Chart

Year	Fraud_rate	Cybercrime_rate	Taxcrime_rate
2016	99.1	6.0	14.7
2017	89.6	7.4	16.7
2018	85.6	8.4	18.6
2019	92.7	10.2	17.9
2020	79.6	12.0	10.3
2021	84.7	17.7	10.1
2022	126.1	26.3	9.9
2023	135.2	17.5	10.1

Appendix 13 Data Table for SPSS

Year	Taxcrime rate per 100000 inhabitants	Chain-base Index	Fixed-base Index
2016	14.7		100
2017	16.7	113.4	113.4
2018	18.6	111.5	126.5
2019	17.9	96.6	122.2
2020	10.3	57.4	70.1
2021	10.1	98.2	68.9
2022	9.9	97.8	67.3
2023	10.1	101.8	68.6
2024	10.0	99.8	68.4

Appendix 14 Chain-base Index & Fixed-base Index Table of Cybercrime Rate in the Czech Republic

Descriptive Statistics					
	N	Minimum	Maximum	Mean	Std. Deviation
Year	9	2016	2024	2020.00	2.739
Fraud_rate	9	79.6	135.2	102.020	21.0915

Appendix 15 Descriptive Statistics of Fraud rate Table from SPSS

Descriptive Statistics					
	N	Minimum	Maximum	Mean	Std. Deviation
Year	9	2016	2024	2020.00	2.739
Cybercrime_rate	9	6.0	26.3	13.072	6.4335

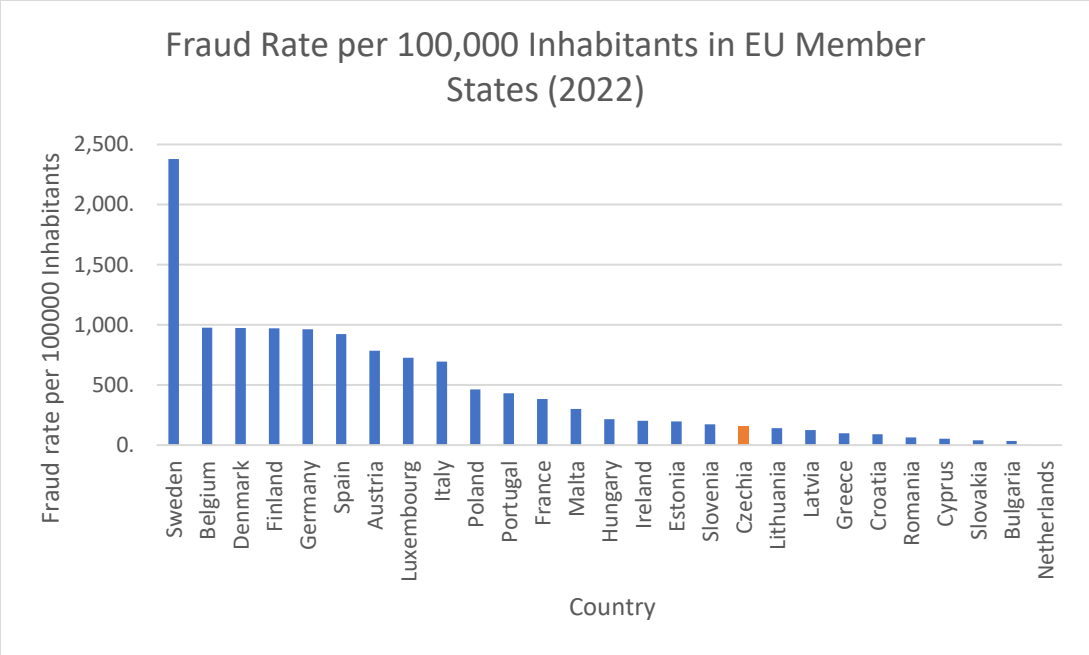
Appendix 16 Descriptive Statistics of Cybercrime rate from SPSS

Descriptive Statistics					
	N	Minimum	Maximum	Mean	Std. Deviation
Year	9	2016	2024	2020.00	2.739
Taxcrime_rate	9	9.9	18.6	13.137	3.7784

Appendix 17 Descriptive Statistics of Tax Crime Table from SPSS

Country	Fraud rate per 100K inhabitants(2022)	Rank (highest to lowest)
Sweden	2,379.66	1
Belgium	977.18	2
Denmark	973.59	3
Finland	971.77	4
Germany	962.81	5
Spain	923.85	6
Austria	784.38	7
Luxembourg	726.53	8
Italy	694.90	9
Poland	463.54	10
Portugal	431.49	11
France	382.33	12
Malta	299.82	13
Hungary	215.13	14
Ireland	202.69	15
Estonia	196.13	16
Slovenia	173.74	17
Czechia	153.09	18
Lithuania	141.41	19
Latvia	123.79	20
Greece	98.32	21
Croatia	90.31	22
Romania	64.43	23
Cyprus	52.83	24
Slovakia	39.05	25
Bulgaria	33.62	26
Netherlands	**No data available**	27

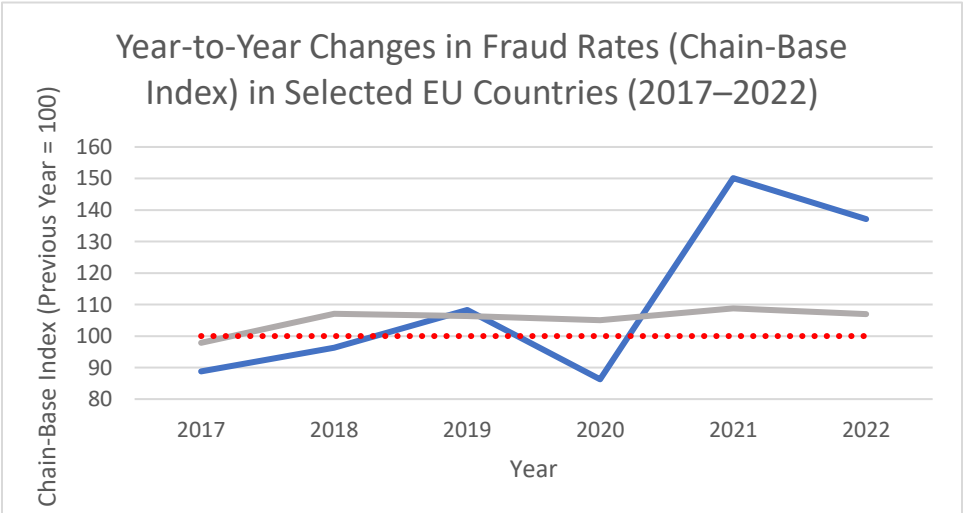
Appendix 18 Rank of EU Fraud Rate



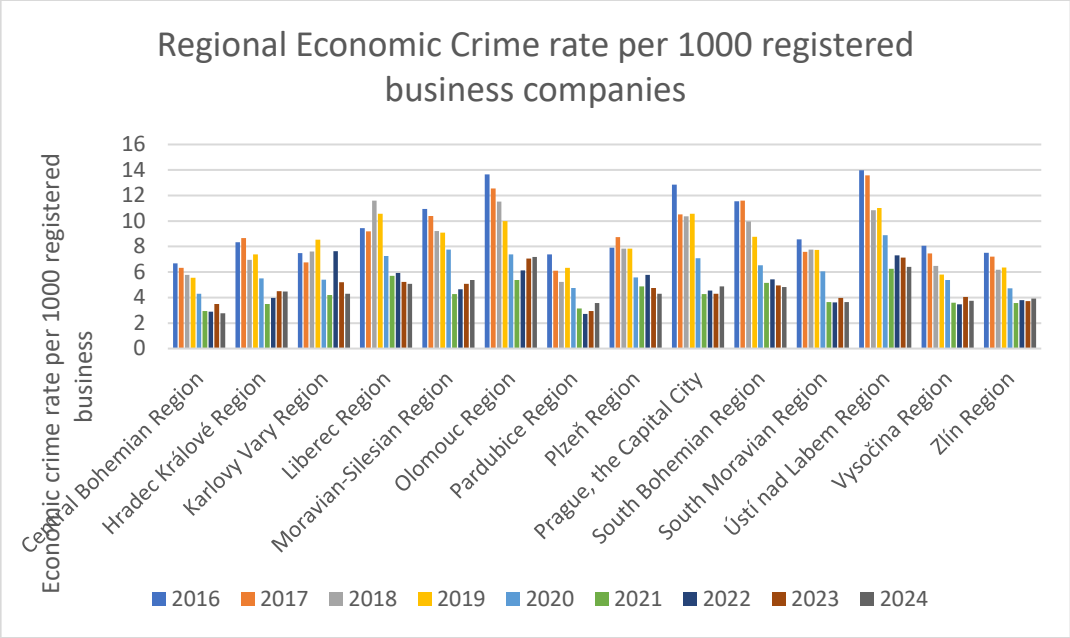
Appendix 19 Fraud Rate in EU members Chart

Year	CZ Index	DE Index	PL Index	SK Index	EU Index
2017	88.7660944	100.8336	118.751747	123.6095	97.85909
2018	96.2528708	92.0556215	90.9952328	91.83596	107.1123
2019	108.238101	98.7996416	98.7996416	85.87968	106.316
2020	86.2745098	96.8395559	98.7200694	87.50602	105.0146
2021	150.121033	98.225662	128.42192	96.28611	108.7854
2022	137.140554	100.882239	99.1486995	111.5714	106.9471

Appendix 20 Chain Base Table of EU fraud rate



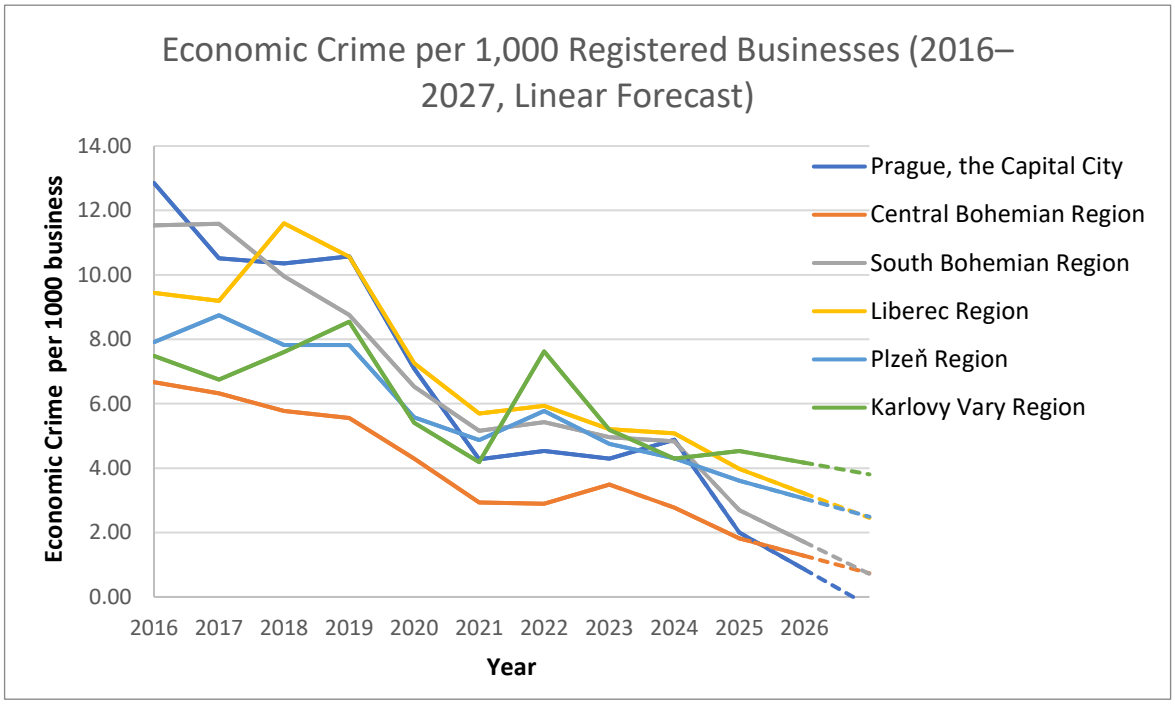
Appendix 21 Chain Base Chart of EU fraud rate



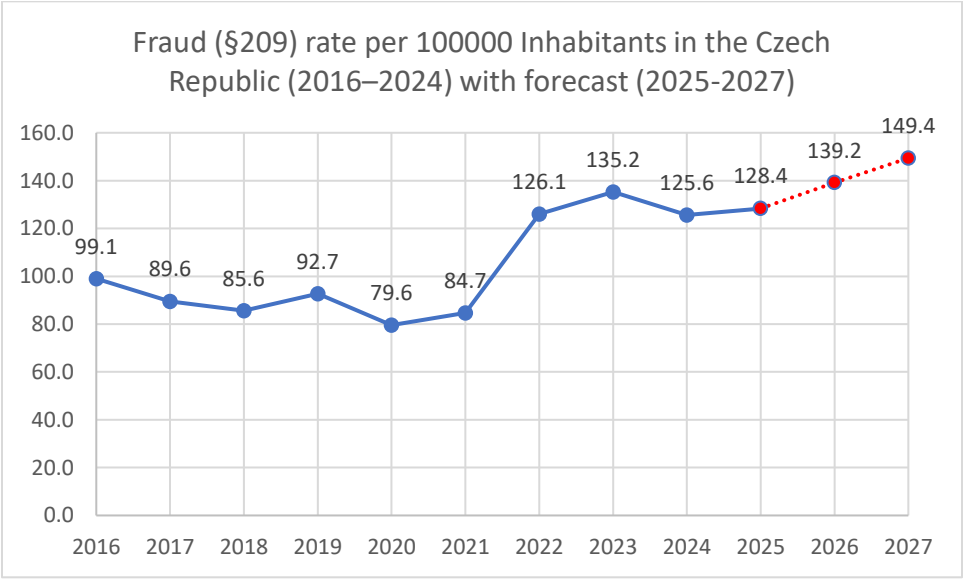
Appendix 22 The Regional Economic crime rate per 1,000 registered companies for the period 2016–2024.

Region	2016 rate	2024 rate	Absolute change	% change
Prague, the Capital City	12,85	4,88	-7,97	-62,04 *
Central Bohemian Region	9,45	2,77	-6,67	-58,43 *
South Bohemian Region	6,67	4,83	-1,83	-58,11*
South Moravian Region	11,54	3,64	-7,90	-57,55
Ústí nad Labem Region	7,91	6,40	-1,51	-54,22
Vysočina Region	13,98	3,74	-10,25	-53,65
Pardubice Region	13,66	3,56	-10,10	-51,77
Moravian-Silesian Region	10,93	5,38	-5,55	-50,80
Zlín Region	7,48	3,91	-3,58	-47,90
Olomouc Region	7,50	7,19	-0,31	-47,37
Hradec Králové Region	8,06	4,47	-3,58	-46,33
Liberec Region	7,38	5,08	-2,30	-46,20*
Plzeň Region	8,34	4,31	-4,03	-45,59*
Karlovy Vary Region	8,57	4,30	-4,27	-42,58*

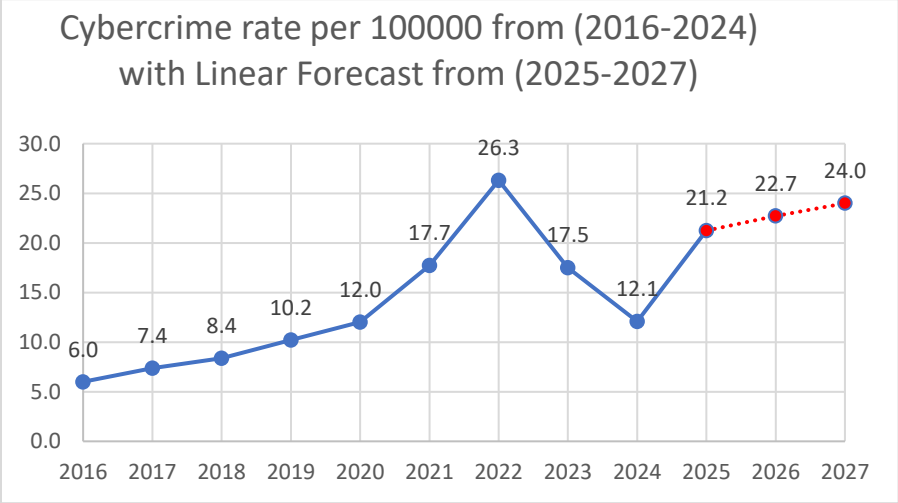
Appendix 23 Absolute change and Percentage change in Economic Crime rate per 1000 registered companies (2016-2024)



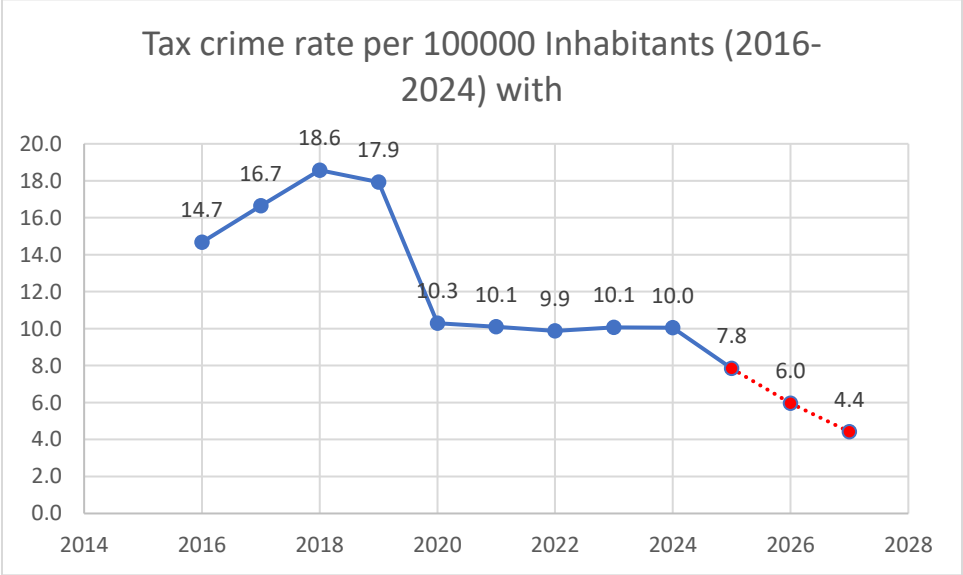
Appendix 24 The projected development of economic crime per 1,000 registered companies for the six selected regions over the period 2025–2027.



Appendix 25 Fraud Rate per 100,000 Inhabitants (2016–2024) with Linear Forecast (2025–2027)



Appendix 26 Cybercrime Rate per 100,000 Inhabitants (2016–2024) with Linear Forecast (2025–2027)



Appendix 27 Tax Crime Rate per 100,000 Inhabitants (2016–2024) with Linear Forecast (2025–2027)