The Need for a Danube Post-Covid 19 Strategy for Economic Survival

Romeo-Victor Ionescu¹

Abstract: EU27 is facing to a new crisis generated by the Covid-19 pandemic. This crisis is different from the previous ones because it achieved a maximum degree of complexity. The specialists point out as components of this crisis: social, political, medical and economic elements. As a result, EU27 is expected to decrease its GDP growth rate by 7.4% in 2020 following the outbreak of the Covid-19 (Clark, D., 2020). A forecasted economic recovery in 2021 will be not able to balance the present economic recession in the EU27.

Keywords:

1. Introduction

EU27 is facing to a new crisis generated by the Covid-19 pandemic. This crisis is different from the previous ones because it achieved a maximum degree of complexity. The specialists point out as components of this crisis: social, political, medical and economic elements. As a result, EU27 is expected to decrease its GDP growth rate by 7.4% in 2020 following the outbreak of the Covid-19 (Clark, D., 2020). A forecasted economic recovery in 2021 will be not able to balance the present economic recession in the EU27 (see Figure 1).

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Figure 1. Real GDP growth rate forecast (%)

According to Figure 1, the forecasted economic recovery in 2021 will be not enough to cover the decrease from 2020.

The EU Danube Member States are facing to the same situation connected to the pandemic's impact in 2020. The effects of the pandemic on these economies varies a lot. The decrease in real GDP in 2020 achieves 9.1% in Croatia, compared to 5.5% in Austria (see Figure 2).



Figure 2. Real GDP Growth Rate Forecast in EU Danube States (%)

The present research deals to the idea that the economic recession in the EU Danube States would lead to a common position in passing recession and why not a common economic strategy able to valorise the advantages which come from their status as Danube states.

In order to support the above approach, the present paper proposes a model of maximization the national economic output in order to obtain maximum of economic efficiency under the pandemic's impact.

The objective of the research are:

O1: Identifying the elements which are essential in improving the national economic recovery capacity during the present crisis.

O2: Quantifying each element of influence and building an adequate database.

O3: Realising a hierarchy of the most important regional actors according to their economic recovery capacity.

2. Literature Review

Evan that the present pandemic crises is acting now, there are a lot of scientific researches which are trying to explain and to quantify the pandemic's impact on the economic development. Some of the most representative such papers are presented in Table 1.

No	Authors	Model's characteristics	Author's criticism				
1.	Haleem,	The authors point out the idea of	The approach that COVID-				
	A., Javaid,	interdisciplinary researches in	19 pandemic is a public				
	М.,	order to fight against the	health emergency of				
	Vaishya, R.	Coronavirus (COVID-19). The	international concern is a				
	and.	number of infectionsand	correct one. The solution of				
	Deshmukh,	proportionate fatalities are being	this challenge has to be				
	S.G., 2020.	reported both from developed and	multi-disciplinary and trans-				
		under developed countries. As	national. Unfortunately, the				
		aresult, there is an urgent	authors limited their				
		requirement for conducting	approach to the research in				
		academic research on several	the biological and the				
		aspects of this highly contagious	medical sciences and didn't				
		disease, to find effective means of	take into account the				
		containment and treatment of the	economic solutions in				
		disease, for now, and in future.					

Table 1. Literature Review.

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No	Authors	Model's characteristics	Author's criticism
		The authors identified some opportunities for academic research related to COVID-19 and have also provided suggestions to contain, prevent and treat this viral infection.	fighting against this pandemic.
2.	Peterson, K. O. & Thankom, G.A., 2020	The authors analyse the connection between the health crisis and the economic crisis. They concluded that the virus encouraged social distancing which led to the shutdown of financial markets, corporate offices, businesses and events. On the other hand, the same virus led to flight to safety in consumption and investment among consumers, investors and international trade partners. The main conclusion of this research is that the increasing number of confirmed coronavirus cases did not have a significant effect on the level of economic activities as the economic, social and medical policies did have.	The first limitation of this research is the short analysed period. Moreover, the study was not able to cover different aspects of the pandemic's impact on socio- economic environment. This is why the authors mentioned that they will continue this analysis which will be focused on the banks and financial institutions' reaction to the economic policy developments during the coronavirus crisis.
3.	Goodell, J.W., 2020	The paper analyses the high impact of the COVID-19 pandemic on the economic and the social elements of the human society. Moreover, it realises a comparision between this pandemic and other epidemics and pandemics. Using the literature review, the author points out the possible directly or indirectly impacts of COVID-19 on the financial markets and the institutions.	The conclusion of the paper that the COVID-19 pandemic is causing a direct global destructive economic impact is too hard. The costs of this pandemic are very difficult to quantify now. This is why the author considers that the answers will be found by academics for many years to come.
4.	Malis- zewska, M., Mattoo, A. and van der Mensbrugg he, D., 2020	The authors analysed the potential impact of COVID-19 on GDP and trade, using a standard global computable general equilibrium model. The results of the model implementation consist of: the underutilization of the labor and the capital, the increase in	Even the analysis in this paper is complex, the authors didn't take into consideration the financial shocks and the decrease in demand and FDI.

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No	Authors	Model's characteristics	Author's criticism
		international trade costs, a decrease in the travel services, and a redirection of the demand away from activities that require proximity between people.	
5.	Bennedsen, M., Larsen, B., Schmutte, I. and Scur, D., 2020	The authors used a survey of 10642 small, medium and large companies from Denmark. The data from this survey were analysed in order to quantify the impact of the COVID-19 pandemic on the government policies for supporting these companies. A dedicated model was built in order to quantify the effects of the public aids to each category of companies.	The authors pointed out the relationship between taking up labour aid and reporting lower layos and more furloughs, while the relationship for firms taking up cost aid is mixed. But the same authors were not able to find a connection between the fiscal aids and the firms' evolution.

The above short literature review supports the need of a new model able to quantify and to improve the EU Danube States' economic recovery capacity.

3. Methods and Methodology

The present analysis takes into consideration six important indicators which have maximum impact in the national defence capacity against the complex crisis in 2020 and afterwards: GDP (PPP)/capita, net export, hospital beds/1000 inhabitants, employment, and general government gross debt. The whole approach is based on the following *hypotheses:*

H1: Some from above indicators (GDP (PPP)/capita, net export, hospital beds/1000 inhabitants and employment have to be as large as possible.

H2: The general government gross debt has to be positive as less as possible, because it quantifies the dependence of the economic entities by the loans.

H3: In order to simplify the analysis, it is assumed that all above five indicators have the same contribution to the national/regional recovery capacity against the present complex crisis.

According to the above presentation, the propose model is basically a maximization function as:

 $Y = [max] \sum_{i=1}^{7} (gdp_i * a_i + nexp_i * b_i + hb_i * c_i + L_i * d_i) - [min] \sum_{i=1}^{7} ggd_i * e_i + \varepsilon \quad (1)$ If: $cab_i > 0$ (2) and $\varepsilon \neq 0$. (3)

In the above equation: gdp - GDP/capita; nexp – net export; hb - Hospital beds/1000 inhabitants; L - employment; ggd - general government gross debt; i – all seven EU Danube States; ε - correction element; a, b, c, d, e, f - coefficients that express the weight of each indicator in achieving the ability to to achieve the economic recovery. According to H3:

 $a = b = c = d = e \tag{4}$

In order to start the analysis, a dedicated database was built using the latest official statistical data (European Commission, 2020). The data used by this analysis cover 2011-2020 (see Appendix). The database covers 10 years and is representative for a correct analysis. The statistical official data were completed with ARIMA forecasting procedure, using IBM-SPSS25 software.

According to the data from the Appendix, the socio-economic and medical performances in 2020 are worst compared to the previous year. The implementation of the model for 2020 leads to the following results:

$$\begin{split} Y &= (51109 + 26088 + 51410 + 34771 + 31070 + 22807 + 24870) * 0.2 + (14.6 - 6.0 \\ &+ 232.1 + 1.8 + 5.7 + 1.404) * 0.2 + \\ (722.7 + 719.2 + 781.3 + 562.9 + 691.0 + 801.3 + 530.1) * 0.2 + \\ (4090 + 8324 + 40387 + 2579 + 4592 + 3114 + 1620) * 0.2 &- (300.1 + 76.7 + 2346.7 + 49.6 + 90.7 + 12.7 + 43.0) * 0.2 = 48425 + 49.84 + 961.7 + 12941.2 \\ &- 583.9 = 61793.84 \end{split}$$

The value of the total impact of the Covid - 19 pandemic on the Danube EU Members State has to be compared to forecasted one for 2021. In order to do this, a forecasting procedure under IBM-SPSS 25, which uses ARIMA conditions, will be applied.

4. Results and Discussion

The forecasted data for GDP/capita in 2021 are presented in Figure 3.



Figure 3. The Forecasted data for GDP/Capita in 2021 (USD)

According to Table 2, all Danube EU Member States will face to a drop in their economic development in 2020. It will be followed by a relative economic recovery in 2021. Unfortunately, this last recovery will be not enough to cover the drop in 2020. The most official optimistic approaches talk about a complete recover only in 2020, if the pandemic will not develop under a new wave.

The second forecasted indicator is Net export of goods. It represents the difference between the value of the exported goods and the value of the imported goods in a year (see Figure 4).



Figure 4. The Forecasted Data for Net Export of Goods in 2021 (bn. Euros).

Some analysed countries (like Austria and Germany) continued to obtain advantage from the international trade of goods. These advantage can be used in order to improve their fight against pandemic and economic recession. Slovakia, Bulgaria and Hungary will maintain their terms of their trade balances for goods, while Romania and Croatia will face to a worse situation in 2021.

An important element in fighting against the present pandemic is the number of the hospital beds. As general trend, this number decreased during the analysed period. The evolution of this indicator in 2021 is presented in Figure 5.



Figure 5. The Forecasted Data for Hospital Beds/1000 Inhabitants in 2021.

According to Figure 5, only two Danube countries will succeed in increasing their number of the hospital beds/100000 inhabitants. This means that the other five states will be not able to face to a new wave of Covid-19 pandemic.

The employment represents an important element in supporting the economic recovery. The trend of this indicator in the Danube EU Member States is presented in Figure 6.



Figure 6. The Forecasted data for Employment in 2021 (Thousands Persons)

It is no doubt that all Danube EU Members States will force the employment increase in 2021 compared to the previous year, in order to produce more and to increase all the revenues.

Finally, the general government gross debt potentiates the economy's capacity to fight against the Covid-19 impact and economic recession, as well. The statistical data regarding this indicator in 2021 are presented in Figure 7.



Figure 7. The Forecasted Data for the General Government Gross Debt in 2021 (bn. Euros).

As a general point of view, the states which will be able to decrease their gross debt will obtain more instruments in fighting against Covid-19 pandemic and recession.

According to the data quantified for 2021, the implementation of the proposed model lead to the following values:

Y = (53664 + 27184 + 54443 + 37066 + 32934 + 24175 + 26735) * 0.2 + (14.7 - 6.4)0.5) 0.2 ++246.7 +1.8 +5.7 +1.4 _ * (717.2+727.6+775.6+559.3+689.2+818.3+521.9)0.2 +(4147+8374+40629+2631+4643+3148+1669)0.2 (291.1+83.2+2257.5+49.8+89.3+12.7+40.8) * 0.2 = 51240.2 + 52.68 + 961.82 +13048.2 - 564.88 = 64738.02

5. Conclusions

The above analysis leads to a single conclusion: the impact of the pandemic is a very important one and the economic restart will be more than difficult. The economic development in the EU Danube Member States will lead to great disparities. This disparities will be not eliminated in 2021 if the present trend will continue. In order to decrease the socio-economic disparities, to improve the labour market mechanisms and to ensure a better health care protection in this region, the solution would be a common strategy under the future German EU presidency. Unfortunately, the official statements of the German government pointed out the idea of a policy focused on the international relationship with China not to a consolidation of the economic region.

The theoretical model proposed in this paper was practically tested by case analysis on all EU Danube Member States, highlighting the validity of the model through statistical tests run through IBM-SPSS 25 software. In addition, the model is obviously useful for the regional / local decision-makers in order to mitigate the described above phenomena. From a theoretical point of view, the model is a useful exercise in universities and not only, but especially for entrepreneurs focused on developing their business across the Danube region. From the research point of view, the model is interesting because it brings a new approach in the field and offers possibilities for further extension of the analysis by increasing the number of variables taken into account.

The limitations of the study are related to the limited nature of the used data and the introduced variables during the conceptualization of the model. These can be further extended to adapt the model to the current crisis situation.

For our point of view, we will continue the research in order to apply this model to the same Danube region in the context of the new developments related to a new Covid-19 wave. As a result, the coefficients which express the weight of each indicator in achieving the ability to achieve the economic recovery and to fight against the pandemic (a, b, c, d, e) have to be changed.

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Appendix

State	Indicator	20	201	2013	20	201	201	201	201	201	202
		11	2		14	5	6	7	8	9	0
Austr	GDP/cap	46	475	4821	48	496	507	519	532	540	511
ia	ita	80	03	6	93	73	16	84	32	84	09
	(PPP)	1			9						
	USD	1.4	1.4	1.4.1	1.4	1.4.1	14.0	14.0	14.4	14.6	14.6
	Net	14.	14.	14.1	14.	14.1	14.2	14.3	14.4	14.6	14.6
	export of	1	1		1						
	goods										
	(DII. Euros)										
	Euros)	76	767	764 5	75	753	742	736	733	778	722
	$\frac{10}{100}$	76	107	704.5	81	755.	1	730. 6	755.	720. 2	722.
	0	7.0			0.7	,	1	0	,	2	,
	inhabitan										
	ts										
	Employ	38	383	3864	38	391	399	404	410	414	409
	ment	02	5		76	8	8	8	2	8	0
	(thousan										
	ds										
	persons)										
	General	28	283	283.3	28	283.	309.	296.	285.	309.	300.
	governm	3.3	.3		3.3	3	6	8	4	4	1
	ent gross										
	debt (bn.										
D	Euros)	10	200	2004	01	224	226	254	265	077	2(0
Roma	GDP/cap	19	200	2084	21	224	236	254	265	277	260
Roma nia	Euros) GDP/cap ita	19 33 2	200 75	2084 6	21 64	224 79	236 12	254 17	265 87	277 53	260 88
Roma nia	GDP/cap ita (PPP)	19 33 2	200 75	2084 6	21 64 7	224 79	236 12	254 17	265 87	277 53	260 88
Roma nia	Euros) GDP/cap ita (PPP) USD	19 33 2	200 75	2084 6	21 64 7	224 79	236 12	254 17	265 87	277 53	260 88
Roma nia	Euros) GDP/cap ita (PPP) USD Net export of	19 33 2 - 5 8	200 75 -5.9	2084 6 -6.0	21 64 7	224 79 -6.4	236 12 -6.3	254 17 -6,2	265 87 -6.1	277 53 -6.0	260 88 -6.0
Roma nia	Euros) GDP/cap ita (PPP) USD Net export of goods	19 33 2 - 5.8	200 75 -5.9	2084 6 -6.0	21 64 7 - 6.2	224 79 -6.4	236 12 -6.3	254 17 -6,2	265 87 -6.1	277 53 -6.0	260 88 -6.0
Roma nia	Euros) GDP/cap ita (PPP) USD Net export of goods (bn.	19 33 2 - 5.8	200 75 -5.9	2084 6 -6.0	21 64 7 - 6.2	224 79 -6.4	236 12 -6.3	254 17 -6,2	265 87 -6.1	277 53 -6.0	260 88 -6.0
Roma nia	Euros) GDP/cap ita (PPP) USD Net export of goods (bn. Euros)	19 33 2 5.8	200 75 -5.9	2084 6 -6.0	21 64 7 6.2	224 79 -6.4	236 12 -6.3	254 17 -6,2	265 87 -6.1	277 53 -6.0	260 88 -6.0
Roma nia	Euros) GDP/cap ita (PPP) USD Net export of goods (bn. Euros) Hospital	19 33 2 - 5.8	200 75 -5.9 659	2084 6 -6.0 667.3	21 64 7 6.2	224 79 -6.4 679.	236 12 -6.3 684.	254 17 -6,2 689.	265 87 -6.1 702.	277 53 -6.0 710.	260 88 -6.0 719.
Roma nia	Euros) GDP/cap ita (PPP) USD Net export of goods (bn. Euros) Hospital beds/100	19 33 2 5.8 63 1.0	200 75 -5.9 659 .6	2084 6 -6.0 667.3	21 64 7 6.2 67 1.2	224 79 -6.4 679. 1	236 12 -6.3 684. 0	254 17 -6,2 689. 2	265 87 -6.1 702. 4	277 53 -6.0 710. 8	260 88 -6.0 719. 2
Roma nia	Euros) GDP/cap ita (PPP) USD Net export of goods (bn. Euros) Hospital beds/100 0	19 33 2 5.8 63 1.0	200 75 -5.9 659 .6	2084 6 -6.0 667.3	21 64 7 6.2 67 1.2	224 79 -6.4 679. 1	236 12 -6.3 684. 0	254 17 -6,2 689. 2	265 87 -6.1 702. 4	277 53 -6.0 710. 8	260 88 -6.0 719. 2
Roma nia	Euros) GDP/cap ita (PPP) USD Net export of goods (bn. Euros) Hospital beds/100 0 inhabitan	19 33 2 5.8 63 1.0	200 75 -5.9 659 .6	2084 6 -6.0 667.3	21 64 7 6.2 67 1.2	224 79 -6.4 679. 1	236 12 -6.3 684. 0	254 17 -6,2 689. 2	265 87 -6.1 702. 4	277 53 -6.0 710. 8	260 88 -6.0 719. 2
Roma nia	Euros) GDP/cap ita (PPP) USD Net export of goods (bn. Euros) Hospital beds/100 0 inhabitan ts	19 33 2 - 5.8 63 1.0	200 75 -5.9 659 .6	2084 6 -6.0 667.3	21 64 7 6.2 67 1.2	224 79 -6.4 679. 1	236 12 -6.3 684. 0	254 17 -6,2 689. 2	265 87 -6.1 702. 4	277 53 -6.0 710. 8	260 88 -6.0 719. 2
Roma nia	Euros) GDP/cap ita (PPP) USD Net export of goods (bn. Euros) Hospital beds/100 0 inhabitan ts Employ	19 33 2 5.8 63 1.0 80	200 75 -5.9 .6 813	2084 6 -6.0 667.3 8096	21 64 7 6.2 67 1.2 81	224 79 -6.4 679. 1 813	236 12 -6.3 684. 0 807	254 17 -6,2 689. 2 827	265 87 -6.1 702. 4	277 53 -6.0 710. 8	260 88 -6.0 719. 2 832

Table 2. Statistical Database

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	(thousan ds persons)										
	General governm ent gross debt (bn. Euros)	27. 4	34. 7	44.0	55. 8	63.5	72.2	70.6	70.3	70.7	76.7
Germ any	GDP/cap ita (PPP) USD	48 71 5	493 57	5000 7	50 66 6	513 33	524 88	538 34	546 54	549 84	514 10
	Net export of goods (bn. Euros)	12 4.4	133 .1	142.3	15 2.2	162. 8	177. 1	192. 1	206. 1	220. 0	232. 1
	Hospital beds/100 0 inhabitan ts	83 7.8	833 .6	827.8	82 2.8	813. 3	806. 3	800. 2	797. 3	787. 8	781. 3
	Employ ment (thousan ds persons)	36 95 5	372 90	3758 4	37 87 3	381 48	390 68	393 86	395 51	399 51	403 87
	General governm ent gross debt (bn. Euros)	50 6.8	729 .2	1049. 2	15 09. 6	217 2.1	216 5.6	214 0.6	207 0.2	202 6.5	234 6.7
Slova kia	GDP/cap ita (PPP) USD	28 19 2	293 67	3059 1	31 86 6	331 94	339 06	349 55	364 11	372 68	347 71
	Net export of goods (bn. Euros)	1.8	1.8	1.8.	1.8	1.8	1.8	1.8	1.8	1.8	1.8
	Hospital beds/100 0 inhabitan ts	60 5.1	591 .1	580.3	57 8.5	574. 7	578. 4	582. 1	570. 0	566. 5	562. 9

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	Employ ment (thousan ds persons)	22 96	230 9	2310	23 41	239 6	246 0	249 1	251 9	253 5	257 9
	General governm ent gross debt (bn. Euros)	39. 2	40. 0	40.8	41. 6	42.4	46.5	43.5	44.3	49.4	49.6
Hung ary	GDP/cap ita (PPP) USD	25 81 7	263 98	2699 2	27 59 9	282 20	288 55	301 52	317 72	334 09	310 70
	Net export of goods (bn. Euros)	5.6	5.5	5.4	5.3	5.2	5.4	5.5	5.4	5.3	5.7
	Hospital beds/100 0 inhabitan ts	71 9.7	700 .1	703.7	69 8.4	699. 4	700. 2	701. 9	696. 1	693. 1	691. 0
	Employ ment (thousan ds persons)	37 13	378 3	3848	40 52	415 4	428 5	434 8	438 3	440 6	459 2
	General governm ent gross debt (bn. Euros)	62. 3	67. 2	72.5	78. 2	84.7	91.4	89.1	86.8	83.4	90.7
Bulga ria	GDP/cap ita (PPP) USD	18 09 8	187 74	1984 6	20 58 7	213 56	222 00	230 05	237 41	245 77	228 07
	Net export of goods (bn. Euros)	0.8	0.9	1.0	1.2	1.4	1.4	1.4	1.4	1.4	1.4
	Hospital beds/100 0	64 4.9	661 .2	681.6	71 3.0	723. 5	727. 0	745. 4	767. 4	784. 3	801. 3

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	inhabitan										
	ts										
	Employ	29	288	2880	29	296	294	305	305	312	311
	ment	18	2		16	3	3	8	5	1	4
	(thousan										
	ds										
	persons)	10	10	10.0	10	10.0	10.5	12.2	10.1	10.7	10.5
	General	13.	13.	13.2	13.	13.2	12.7	12.3	12.1	12.7	12.7
	governm	2	2		2						
	ent gross										
	debt (bn.										
a l	Euros)			00.61	2.1	2.1.1	252	0.61	2.60	276	2.40
Croat	GDP/cap	22	232	2361	24	244	253	261	268	276	248
1a	ita	82	16	8	02	41	27	37	62	64	70
	(PPP)	I			6						
	USD										
	Net	-	-0.4	-0.4	-	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4
	export of	0.4			0.4						
	goods										
	(bn.										
	Euros)	-			-		5 40		5 40	505	520
	Hospital	58	588	586.0	59	556.	549.	554.	540.	537.	530.
	beds/100	4.4	.6		1.0	3	3	0	3	2	1
	0										
	inhabitan										
	ts	17	151	140.6	1.5	1.5.4	154	150	1.61	1.60	1.62
	Employ	15	151	1486	15	154	154	158	161	163	162
	ment	71	1		28	5	9	5	0	1	0
	(thousan										
	ds										
	persons)	10	1.4	10.0	07	20.0	27.0	267	27.0	27.2	42.0
	General	10.	14.	19.8	27.	38.9	57.8	36.7	57.9	57.3	43.0
	governm	4	3		8						
	ent gross										
	debt (bn.										
	Euros)										