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SLOVAKIA ON THE ROAD TOWARDS THE EU KNOWLEDGE BASED ECONOMY

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The European Union has passed a complicated period. Its economy lags not only behind its own development goals, but in many developing indicators, it lags well behind the results achieved by its economic partners and competitors, the USA and Japan. Due to the lower competitiveness in the international market environment there are growing problems in the domestic labour market. For a long time, many EU countries demonstrated relatively high unemployment leading subsequently to weakening the income situation of households and consequently to social tensions in society. The labor market situations of young graduates and also people approaching retirement age and seniors are particularly worrying. In the context of such arguments the strategy of perspective development of the European Union 2020 known as the EUROPE 2020 strategy was born. Its essence is the formulation of objectives and procedures to enable to "build in the area of the EU the strongest and most effective economic grouping of the world, able to absorb and eliminate negative stimuli from the external market environment in order to protect the quality of life of its inhabitants." According to J. Barroso, Europe 2020 is "the strategy for growth for the future decades, which must ensure building the European Union as an area of knowledge based, constantly growing and inclusively functioning economy". The paper confronts the EU strategic objectives of 2020 with the current economic and social conditions under the EU and Slovakia's environment as a precondition for their successful fulfillment. The situation in the current Slovak labour market is used as a pointer to the neglected national labour policy tools, which could create significant barriers in realization of the EU 2020 goals. The initially presented data will be used for building the econometric model enabling the in-depth analysis of relation between the explanatory variables and the newly generated economic and social parameters in the EU and Slovakia.

Keywords: economic growth, social development, innovation, education

The ongoing economic crisis in the European Union requires a long-term strategic vision to be formulated for the development of this socio-political and economic colossus in addition to urgent interventions to improve the economic environment. Special emphasis should be put on a more consistent alignment of the objectives of economic growth with the social development of the society and conditions of long term sustainability of the development.

In the long term, the attention has been drawn to the need for such fundamental changes not only in the technical literature but also by extensively developed civil activities. One of the most important documents, which opened broad discussion in this field and which also explicitly and in a highly qualified manner answers the issues related to a new understanding of the economic growth objectives, is the report of the Stiglitz-Sen Commission (Stiglitz, 2010). This report initiated a broad theoretical discussions on the measurement of economic growth results, and it drew a particularly urgent attention to and emphasized a need for targeted focusing on the economic growth in order to react in a maximum extent to the expectations of the society in ensuring the quality of life of its members, while exploiting natural resources in a sustainable manner. The report emphasized the need for a new ways of measurement of economic growth and social development of the society as a multi-functional process which results in improving the quality of life of members of the society.

The EU 2020 strategy requires an active participation of the educational institutions in its development and support. The paper presents the current situation in the labour market, where evident disproportions between market demand for labor force and supply of school

graduates exist, where even highly educated and trained labour force has limited chances to find the adequate employment positions. The identification of the core explanatory factors influencing this situation is formulated as the research topic.

Theoretical Background

In the context of these reflections, a strategy of perspective European Union development by 2020 was born, also known as EUROPE 2020 (EUROPA, 2012). At the heart of this strategy there is the formulation of the objectives and procedures to enable "the most powerful and efficient economic coalition to be built in the EU environment, able to absorb and eliminate negative external market stimuli in order to protect the quality of life of its inhabitants." According to Barroso "...Europe 2020 is the growth strategy for the decades to come which should ensure the European Union is built as an area of knowledge, constantly developing and inclusively operating economy". In this context, the role of the new development strategy should be emphasized in ensuring a higher employment level, raising labour productivity and ensuring the necessary social cohesion in the whole EU area and individual Member States.

In EUROPE 2020, the urgency of innovative changes in the economy of European countries is presented as a special role. The document draws attention to the EU lagging behind the partners like USA, Japan and BRIC countries in technology. Innovative tasks require not only a significant increase in financial resources, but also purposeful and carefully considered change in education at all school levels, and accelerated transfer of science and research results into practice.

Material and methods

In this paper, we analyze the Europe 2020 strategic framework and objectives in the context of current issues and challenges addressed by Slovakia. We focus especially on the area of innovative activities and related educational tasks. Based on statistical data, we disclose the “weaknesses” of Europe 2020, and failure to meet conditions for successful implementation of this project by the Member States.

Current situation on the labour market in the area of the European Union

Employment. The European Union is faced with pertaining economic and social problems. Its economy lags behind not only their own development goals, but in many developing indicators it lags well behind the results achieved by the USA (Joint, 2006; Reshaping, 2012) and Japan (EU-Japan,

2012; Joint, 2012), its economic partners and competitors. Due to a lower competitiveness in the international market environment, there are growing social problems on domestic market. Labour market characteristics are of particular concern. For a long period, the lower level of workforce (62%) is employed than in the economy of the U.S.A. (66.6%) and Japan (70.1%) which reduces its production potential. For more detailed information, broken down into age groups of 15–24 and 55–64, see Table 1.

However, the significant differences in the employment of working population are also among the countries of the Union (Zoppe, 2011). The biggest differences are evident in the age group of 15–24, with the workforce employment in the new EU Member States being 20–30%; the lowest level is reported in Hungary (18.1%). On the other hand, the employment rate is significantly higher in the economically successful EU countries – the Netherlands 63.3%, Denmark 55.0% and Austria 54.6%.

Table 1 Employment in the EU according to the age groups

Country	Total employment	15–24 years (3)		55–64 years	
		(%) of total	in 1000	(%) of total	in 1000
EU27	216 052	32.9	71 081	48.9	105 650
Bulgaria	2 934	21.9	643	45.7	1 341
Cyprus	389	28.1	109	50.7	197
Czech Rep.	4 890	25.2	1 232	49.3	2 411
Estonia	624	33.0	206	60.6	378
Hungary	3 878	18.6	721	36.9	1 431
Latvia	886	28.7	254	52.8	468
Lithuania	1 279	21.6	276	51.8	662
Malta	173	43.8	76	33.6	58
Poland	15 591	24.7	3 851	38.7	6 034
Romania	9 263	23.9	2 214	41.4	3 835
Slovakia	2 329	20.1	468	43.1	1 004
Slovenia	924	27.3	252	32.9	304
Austria	4 184	54.6	2 284	43.1	1 803
Belgium	4 524	25.3	1 145	39.5	1 787
Denmark	2 689	55.0	1 479	60.8	1 635
Finland	2 483	41.8	1 038	58.2	1 445
France	25 798	28.8	7 430	44.5	11 480
Germany	40 062	46.6	18 669	61.5	24 638
Greece	3 763	13.1	493	36.4	1 370
Ireland	1 838	28.2	518	49.3	906
Italy	22 899	18.6	4 259	40.4	9 251
Luxembourg	236	21.7	51	41.0	97
Netherlands	8 424	63.3	5 333	58.6	4 937
Portugal	4 635	23.6	1 094	46.5	2 155
Spain	17 282	18.2	3 145	43.9	7 587
Sweden	4 657	40.2	1 872	73.0	3 400

Source: Eurostat, author's calculation

The situation is similar in the age group 55–64, where the lowest employment rate within the group of new Member States is reported by Slovenia, Malta, Hungary and Poland (from 32% to 38%). The “old” Member States reported much higher employment rate in this age group as well (Heyes, 2013). In Sweden, it is up to 73%, 61.5% in Germany and 58% to 60% in Denmark, Finland, the Netherlands, and the UK.

Unemployment. Besides the low employment rate, the Union is confronted with serious labour market problems, i.e. with high unemployment. Currently, there are more than 26 million people unemployed in the EU countries (Eurostat, March, 2013), which is almost 11% of the available labour force. The unemployment rate in Member States varies considerably (Paci, 2011). The highest unemployment rate is in Greece (27%), Spain (26%), Portugal (17%) and Slovakia (14%). The lowest unemployment rate is reported to be in Austria (4.7%), Germany (5.4%) and Luxembourg (5.7%); see Figure 1

Comparing the unemployment rate in the EU countries for the period from 2007 to the present time, the unemployment rate grew the most in Ireland, Spain, Greece and Cyprus. In the same period of time, the unemployment rate dropped in Germany, Poland and Austria.

The development of unemployment rate has been alarming in the group of young people up to 25 years old (Figure 2). The group includes the graduates of all levels of school including universities. The highest unemployment rate among the young people aged under 25 is currently reported in Greece (60%), Spain (56%), in Italy, Portugal and Slovakia it is more than 34%.

Long-term unemployment (Sperman, 2005) with the unemployed for more than 1 year seems to be a persistent problem. The period of time they have spent without employment makes their current chances to respond to the labour market needs difficult or even impossible.

In the new Member States, the most complicated situation in the long term is in Slovakia; in 2012, it accounted for more than 67% of

Figure 1 Total unemployment in 2005 and 2012 % of total labour force
Source: Eurostat, March, 2013, author

Figure 2 Unemployment of young people below 25 years in % of this age labour force
Source: Eurostat, March, 2013, author

the total unemployment rate. In the old Member States, the long-term unemployment rate is the highest in Ireland (61%).

A more detailed analysis shows that the situation in the labour market is characterized by significant structural differentiation in supply and demand for skilled labour force. For an extended period of time, the labour market is entered by the graduates of social and humanities fields, which fails to correspond with the needs of innovative and competitive labour market. The situation in Slovakia, where only 34.1% of graduates in 2012 specialized in technical studies, while 65.9% of graduates finished humanities, serves as example (ÚIPMŠ, 2012). Even in this context, the questions may be asked whether

employers' organizations formulate their requirements for the professional profile of graduates clearly enough and in advance and whether educational institutions monitor and respond adequately to these needs of the labour market.

Unemployment of school graduates, Table 2, is a particular problem that needs to be very carefully analyzed and effectively addressed in connection with the preparation for the implementation of the EUROPE 2020 strategy (Roth, 2010). In connection with the objectives of the EUROPE 2020 strategy, special attention should be drawn to a significant increase of the share of unemployed graduates of tertiary education in 2007–2012 in the new Member States, except for Malta. In this regard, it would be necessary to

Table 2 Unemployment by age and level of education

Country	Age 25-64 years											
	Total			ISCED 0-2			ISCED 3-4			ISCED 5-6		
	2007	2012	change to 2007	2007	2012	change to 2007	2007	2012	change to 2007	2007	2012	change to 2007
EU27	7.2	10.6	3.4	10.9	18.6	7.7	7.0	9.6	2.6	4.0	6.1	2.1
Bulgaria	6.9	12.4	5.5	18.0	28.5	10.5	5.8	11.7	5.9	2.4	5.9	3.5
Cyprus	4.0	12.1	8.1	5.1	14.2	9.1	4.0	12.9	8.9	3.4	10.4	7.0
Czech Rep	5.4	7.0	1.6	20.4	28.8	8.4	4.7	6.5	1.8	1.7	2.9	1.2
Estonia	4.8	10.4	5.6	11.7	24.7	13.0	4.9	10.7	5.8	2.5	6.2	3.7
Hungary	7.4	11.0	3.6	17.5	24.9	7.4	6.6	10.7	4.1	2.9	4.5	1.6
Latvia	6.1	15.2	9.1	10.8	27.1	16.3	5.9	17.7	11.8	3.7	6.5	2.8
Lithuania	4.4	13.5	9.1	7.7	34.8	27.1	5.1	16.7	11.6	2.1	5.6	3.5
Malta	6.5	6.5	0.0	8.6	9.4	0.8	4.0	4.8	0.8	2.2	2.2	0.0
Poland	9.7	10.2	0.5	16.5	20.3	3.8	10.3	11.0	0.7	4.7	5.7	1.0
Romania	6.8	7.3	0.5	8.6	8.1	-0.5	6.9	7.6	0.7	3.0	5.6	3
Slovakia	11.2	14.0	2.8	45.1	44.7	-0.4	9.4	13.5	4.1	4.1	6.9	2.8
Slovenia	5.0	9.0	4.0	7.4	15.7	8.3	5.0	9.2	4.2	3.3	6.1	2.8
Austria	4.5	4.4	-0.1	8.8	9.1	0.3	3.7	3.9	0.2	2.5	2.1	-0.4
Belgium	7.5	7.6	0.1	13.0	14.2	1.2	7.6	7.8	0.2	3.8	4.0	0.2
Denmark	3.8	7.7	3.9	5.7	12.1	6.4	3.0	6.9	3.9	3.0	4.9	1.9
Finland	6.9	7.8	0.9	13.0	16.6	3.6	7.1	8.3	1.2	3.6	3.9	0.3
France	8.0	9.9	1.9	12.3	16.3	4.0	7.2	9.9	2.7	5.5	5.7	0.2
Germany	8.8	5.6	-3.2	17.3	12.6	-4.7	8.3	5.4	-2.9	3.9	2.4	-1.5
Greece	8.4	24.5	16.1	7.8	26.4	18.6	9.8	27.5	17.7	7.1	18.2	11.1
Ireland	4.6	15.0	10.4	7.6	25.9	18.3	4.4	17.7	13.3	2.7	7.6	4.9
Italy	6.2	10.8	4.6	7.5	13.9	6.4	5.7	10.1	4.4	4.5	6.8	2.3
Luxembourg	4.1	5.2	1.1	5.8	8.5	2.7	3.4	5.2	1.8	3.2	3.6	0.4
Netherlands	3.2	5.3	2.1	5.3	8.4	3.1	2.9	5.0	2.1	1.8	3.2	1.4
Portugal	8.5	16.4	7.9	8.7	17.5	8.8	8.2	17.7	9.5	7.6	12.0	4.4
Spain	8.3	25.2	16.9	10.5	34.0	23.5	8.1	24.5	16.4	5.3	15.1	9.8
Sweden	6.2	8.1	1.9	12.2	18.2	6.0	5.4	7.2	1.8	3.6	4.4	0.8
UK	5.4	8.0	2.6	9.5	14.4	4.9	5.2	8.7	3.5	2.6	4.3	1.7

Source: Eurostat, March, 2013, prepared by the author

analyze the factors leading to such development in more details. Surely, these questions should be answered by the national agencies, monitoring their labour markets and employment rates by qualification structure and national economy industries. It would be useful to examine the relevance or the compliance of university fields of study and programs with qualification requirements presented in the labour market. Universities should also be responsible for monitoring of these relationships and requirements and adjust their own educational programs accordingly. Analogous findings and requirements can also be formulated in relation to secondary-level schools (ISCED 3-4). In this case, however, the decision on the changes in the curriculum is made by central educational authorities.

Between 2007 and 2011, the unemployment rate grew further in the EU. Despite repeated appeals and demands to raise the level of education of the workforce, the negative development also affects job applicants with the second and tertiary education level completed, see Figure 3. High increase in the number of unemployed is reported especially by the Baltic countries affected by deep economic recession (Kattel, 2009). For graduates of the highest level of education, the situation deteriorated most in Cyprus and in the Baltic countries as well. Even the results of Slovakia may not be considered a good step towards the implementation of the EUROPE 2020 strategy.

The high level of unemployment rate in the new EU Member States but also in several "old" EU Member States is the most serious problem. Its extend requires systematic

Figure 3 Increase in unemployment of the ISCED 3–4 and 5–6 levels graduates since 2007 in %
Source: OECD, October, 2012, author

effort and economic policies of individual countries coherent with resources released by the Union for inclusive economic growth. This solution is not only required, but forced by the strategic agenda of Europe 2020. Equally, the higher responsibility of the governmental bodies setting the quotas of graduates in relevant educational branches should act more proactively in a close cooperation with the employers' associations.

Social impacts – the problem of poverty in the EU environment

The unfavorable labour market situation is not only an economic problem of the Union and its Member States. Persistent or rather deepening unfavorable social situation of the population and particularly high number of population at risk of poverty are logical consequences of this situation. In the EU, the current

share of population at risk is 24%, or nearly 120 million people of all ages and social groups. For more detailed data for Slovakia and neighbouring countries (Visegrad Countries and Slovenia) see Table 3.

Detailed analysis shows that certain social and age groups of population are at risk of poverty with even higher level of probability than average figures suggest. In most countries, the most vulnerable groups include young people, children, families, single parents and seniors groups of inhabitants.

Risk of poverty, together with the possible social exclusion becomes evident in more difficult social realization of individuals and whole families. For families with children, it is also their access to educational institutions and programs which is at risk and may subsequently endanger their healthy psychological development. Risk of poverty also

brings significant social tensions (Nolan, 2010) and the loss of social security of the population, which undermines the initiative of individuals and work teams.

However, only a healthy society may aspire to the successful implementation of new and ambitious development goals as envisaged in the strategic agenda of Europe 2020. It is therefore in the spotlight of the European Union and all Member States to eliminate the escalation of the social tensions in Europe and eliminate or at least reduce its resources as quickly as possible.

The EUROPE 2020 strategy suggests basic development directions that the Union and its Member States should follow in their search for the path to higher intensity of innovative programs, increased competitiveness and higher labour productivity.

Europe 2020 – strategic objectives

The EUROPE 2020 document (Marlier, 2010) defines eight major problem areas with their development objectives for 2020 for the whole Union, as well as for the individual Member States. The following areas are subject to special monitoring and checked for objectives:

1. Employment issue.
2. Intensification of research, development and innovation and strengthening of competitiveness.
3. Control and reduction of greenhouse gas emissions.
4. Renewable energy resources.
5. Energy Consumption.
6. Early termination of educational and vocational programs.
7. tertiary Education.
8. Population at risk of poverty.

All criteria reflect current issues of economic and social development, and pay attention to the major environmental problems, as reported by the Stiglitz-Sen report.

The three (marked bold) of the mentioned criteria have a direct impact on the system of education of respective Member States. Intensification of research and subsequent strengthening of the innovation potential requires the active participation of educational institutions of these countries. Nevertheless, critical comments

Table 3 Population at risk of poverty and social exclusion in Visegrad countries and Slovenia

Country	In millions	In %	Number of people at risk of poverty under 25 years in 1000
EU27	24.2	19.6	13000
Czech Republic	1.6	15.3	169
Hungary	3.1	31	345
Poland	10.2	27.2	1025
Slovakia	1.1	20.6	115
Slovenia	0.4	19.3	32

Source: Eurostat, May, 2013, author

repeatedly addressed to these countries (for the alleged failure to fulfill these tasks) require expert analysis and finding real ways out of this situation. Based on the available data, it can be shown that educational institutions are not the only “weak” link in the development of innovation potential in the EU countries.

Continuous assessment of the economic and social development in the area of the European Union in relation to the above mentioned strategic areas is constructed based on the new criteria with an emphasis on monitoring and evaluation of modernization and innovative elements in the manufacturing sector, i.e. the elements that should provide required increase in the competitiveness of the European Union and its Member States in international economic area.

Evaluation results for each country of the Union are presented by the European innovation mechanism which is part of EUROPE 2020 as a new tool of evaluation based on the same methodology. This tool monitors especially the innovative outputs of EU27 countries and using SWOT analysis, it monitors their other attributes as well and identifies weaknesses in providing innovative potential of the Union and its Member States.

Non-fulfilled tasks and expected economic effects

Despite the repeatedly presented intentions of the European Union to increase the co-participation of the Member States in increasing production and economic competitiveness of its Member States on the world markets, the development objectives defined by the Europe 2020 strategy fail to be fulfilled consistently. Most of the countries build their scientific and research potential and innovative capacities in a minimum extent. The resources allocated to scientific research and tertiary educations (PhD programs) are well below the expected 3% of GDP, except for a few countries (Denmark, Finland, Germany, Sweden). In Slovakia, it is only 0.63%, and 0.77% in Poland. The highest contribution to research and development among the new member states is allocated by the Czech Republic (1.84%).

Based on the assessment of the EU countries according to the above mentioned criteria using the methodology of the European Innovation mechanism (Fagerberg,

2005, Hollanders, 2008), it may be indicated that by the participation of Member States in the innovation processes of the Union, the Member States are classified as follows:

Innovation leaders:

- Denmark, Finland, Germany and Sweden. Their innovation activity and outputs are well above the EU average.

Innovation followers:

- Austria, Belgium, Cyprus, Estonia, France, Ireland, Luxembourg, the Netherlands, Slovenia and the UK. These countries have scores around the EU average.

Moderate innovators:

- the Czech Republic, Greece, Hungary, Italy, Malta, Poland, Slovakia and Spain. Their results are below the EU average.

Modest innovators:

- Bulgaria, Latvia, Lithuania and Romania significantly lag behind the EU countries average in their results.

For Slovakia's current position with regard to the mentioned criteria and its strategic objectives and tasks for 2020 see Table 4.

Slovakia, as well as all Member States of the Union adopted a challenging target tasks the performance of which would significantly affect not only its economic potential, but above all its ability to consistently meet tasks and objectives defined on a pan-European level and social development objectives. Special attention should be paid to the commitment of the countries to increase the contribution to support the innovation process up to 1% GDP in new Member States and up to 3% in old Member Countries by 2020.

Based on the present negative development of employment, it is necessary to ensure the reduction of unemployment and especially unemployment of the young people at the age of 25 through innovative changes of the production. To solve this problem it is necessary to consider and implement mainly active forms of impacts on the labour market, creating new jobs, supporting small and medium-size enterprises, and adapting the educational structure of school graduates to market needs in a more consistent way.

The system of education requires more attention – and funds.

Table 4 EUROPE 2020 strategic objectives for the Slovak Republic and EU

Criterion	Conditions in SR 2012	SR Objective (2020)	EU Objective
Employment	65.1%	72%	75%
Expenditure for science, research and innovation as GDP%	0.63%	1%	3%
Greenhouse gas emissions		-13% compared to 2005	-20% compared to 1990
Renewable energy in % of total demand	9.8%	14%	20%
Energy Consumption		-20% compared to 2005	-20% compared to 2005
Early termination of education programs (max)	5%	6%	10%
Share of young people (aged 30–34) on tertiary education	23%	40%	35%
Share of population at risk of poverty	20%	to be reduced by 170 000 compared to 2005	to be reduced by 20 million compared to 2005

Source: EU Commission, 2012

Figure 4 Annual expenditures per student USD PPS, 2009
Source: OECD, 2010, author

Figure 5 Dynamics in number of graduates in ISCED 5-6 in Visegrad countries. and EU27
Source: EU Commission, 2012, author

Most of the new Member States of the Union should invest much more in their education and science and research sectors. In case of Slovakia, the situation has been known for a long time. According to OECD statistics, Slovakia scores low in the assessment by the volume of resources allocated per student in the school system as indicated in Figure 4 below.

In connection with the recurring problems of the financial security of educational institutions, particularly those that are expected to provide direct innovation outputs, the reality of the envisaged increase in the numbers of graduates is questioned as assumed by the Europe 2020 strategy and presented in Figure 5 for the countries of the Visegrad Group. Without addressing the need for financial

and material resources of tertiary education, and particularly its research component, the commitments and objectives of the strategic document become just a wish without real material base. Significant differences in comparing the innovation results of economically successful countries of the Union (Denmark, Sweden, Belgium and Finland) with the results of the new Member States clearly show that the weaknesses of educational systems of the new Member States are materially and financially determined.

The above presented partial information on financing the research and education programs shows that only few "old" EU countries are fulfilling their obligations against the official commitments toward building the knowledge based society. The

direct impact of such approach will be further expressed in a form of the econometric model linking all relevant data for exploring their impact (direct and indirect) on the innovation progress, economic growth and better functioning labour market.

Europe 2020 as a strategic document is worded clearly and in a binding way. It is expected that Member States will implement it in a consistent way, i.e. including its financial and material base as well. If there are no clearly defined and long respected commitments towards the research and development sector on the part of the state, even the best prepared document may become only another in the number of declaratively defined objectives. In this case, however, even the solution of serious problems like unemployment and risk of poverty will surely become only an outstanding commitment.

Conclusion

The program document of the European Union EUROPE 2020 contains the important commitments and objectives which the EU intends to meet by 2020 in order to ensure its international competitiveness in the global economic space and reach the innovation activity of USA and Japan as its main partners. These goals were adopted under the general consensus of all Member States. It is expected, therefore, that their implementation will be consistent both in time and content.

As a particularly important task, which requires urgent solution, it is necessary to extend the space for higher employment of highly skilled labour in the EU and individual countries as stated in the development objectives for 2020. Main attention should be paid to economic sectors with the most significant impact on innovation processes in manufacturing. These are the sectors focusing on IT technologies. This orientation imposes new obligations on educational institutions of all levels, in order to ensure that the conditions are established for these development programs already at lower levels of education.

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