## Is Innovation the Premise of Social Progress?

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## Abstract

Improving the quality of life involves a complex and multidimensional effort, and previous efforts to measure progress simply did not create a sufficiently nuanced picture of what a healthy society looks like.

Social progress is the capacity of a society to meet the basic human needs of its citizens, to establish the areas that enable citizens and communities to improve, respectively to support the quality of their lives and to create the necessary conditions for all individuals to reaches the full potential.

At the same time, progress can be considered dependent on the ability to innovate and the ability to adopt innovation. Thus, after analyzing and comparing the data for the Global Social Innovation Index and the Global Innovation Index, we are looking to answer the question which gives the title of these papers: Is innovation the premise of social progress?

**Key words:** Global Innovation Index, Social Progress Index, Economic progress, Globalization. **J.E.L. classification:** F6, O1, O35

#### 1. Introduction

The three major objectives promoted by the Europe 2020 strategy: smart growth, sustainable growth and inclusive growth are aimed at combating the economic crisis in the short term and economic development, in the long run, corroborated with the European Commission's goal of creating a knowledge-based Europe, on rapid and sustainable growth and on social progress. On the other hand, innovation and the transfer of knowledge associated with it are tools of vital development for the global economy.

Can we therefore consider innovation as a factor of social, economic and, why not, ecological progress? A more detailed understanding of the human aspects behind innovation is essential for developing policies that help promote economic development and the more prone to innovation at the local level.

#### 2. Social Progress Index

Calculated from 2013, the Social Progress Index aims to measure social progress. Based on this, we can analyze the correlation between economic and social development without using classical economic indicators.

Starting from the premise that any previous effort to analyze social progress has been channeled in particular to the observation of poor countries, the Social Progress Index is a holistic indicator, representing practically a global measure of social progress that accumulates several aspects of health in a society. This also results in an analysis of economic progress from a different perspective compared to other indicators, SPI measuring the health or welfare of a country, and not social policies or spending on social assistance programs.

Speaking of a global index, another significant feature of SPI is that it allows the measurement of results in a granular way, which is especially important because we can analyze the weaknesses or strengths of each nation. Practically, using this indicator will allow us to create personalized policies on specific domains or subdomains, because based on granular data analysis, we will not only get a final score, but we will also have partial scores for each analyzed subdomain. These will highlight the most delicate issues of each country.

For the calculation of the Social Progress Index in 2017, as an aggregate index, social and environmental indicators were used for the 128 analyzed countries. It measures the welfare of a society using 50 indicators per country, pointing to social progress in three dimensions:

- Fundamental human needs determining the assessment of the resources of a country needed • for survival (food, water, shelter, safety);
- Welfare fundamentals Measuring access to elements that can improve people's livelihoods: (education, access to information and healthcare as well as a sustainable environment);
- Opportunity assesses the degree to which each of us has the chance to fulfill his / her goals (personal rights and freedoms, freedom of choice, freedom from discrimination and access to the most advanced forms of education).

Each of the above mentioned components is an indicator that measures the performance of each country. An important feature of the Social Progress Index is that as an aggregate index of real performance indicators, it quantifies the quality of people's lives or measures whether people in a country are discriminated against and does not measure the expenditure incurred by each country for healthcare or, if governments adopt anti-discrimination laws.

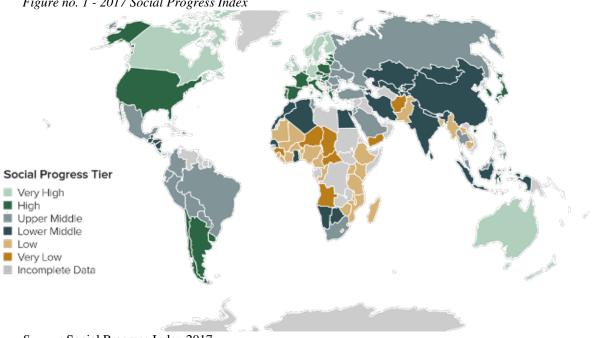


Figure no. 1 - 2017 Social Progress Index

Source: Social Progress Index 2017

Each dimension is divided into four subdivisions that include the specific components of each component. The selection of thematic categories allows a multidimensional analysis of data that studies social progress in each country, and the general framework of the Social Progress Index determines a better understanding of global trends (including regional ones).

Basically, the main purpose of the Social Progress Index is to provide data to help create longterm policies specific to each nation with a strong impact on the development of economic progress.

## 3. Global Innovation Index

Aggregate indicators include the Global Innovation Index (GII), which analyzes innovation from a multidimensional perspective and can help improve economic development policies. The Global Innovation Index in 2017 is calculated for 127 countries, has a longer history than the SPI, and the report co-published by Cornell University, INSEAD and WIPO (World Intellectual Property Organization) shows the rankings of competencies and innovation outcomes for them

If in terms of the Social Inclusion Indicator we were talking about three dimensions, the Global Innovation Index is based on two dimensions, each of which is subdivided:

- Innovation Input includes economic indicators reflecting innovative activities grouped into five other subcategories: Institutions, Human capital and research, Infrastructure, Market sophistication and Business sophistication;
- Output Innovation is an output pillar grouping innovation performance indicators into two categories: Knowledge and Technology Production and Creative Outcomes.

From year to year, the calculation methodology is improved to know whether we can have a viable scenario on economic growth in the next year, both at the level of each nation and globally. Practically, policies can be created to create new sources of innovation for shaping the future of the economy.

## 4. Data analysis

Collecting data for aggregate indicators is a tedious process, and selecting common indicators is difficult. For the data analysis, 110 countries were selected for 2014-2017 scores for both indicators.

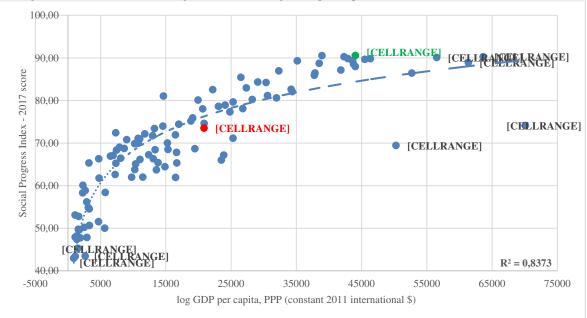


Figure no. 2 - 2017 Social Progress Index vs. Log GDP per capita, PPP (constant 2011 international \$)

Source: Social Progress Index 2017 (own processing)

In 2017, from the point of view of social progress, Denmark ranks first (out of the 110 selected countries), and at the opposite pole Niger. Noteworthy that the top five positions are European countries.

Continuing the analysis, using the comparison with an economic indicator (GDP per capita), we see that Denmark has a higher GDP than Niger. On the other hand, the highest level of GDP is Kuwait, which is in a much lower position than Denmark.

Norway, with a GDP level immediately below that of Kuwait, is ranked fourth in terms of the Social Progress Index, while Kuwait is ranked 42th!

Analyzing the trend of the regression line, we see that the poor countries are quite steep, indicating that a minimum GDP growth and reinvestment in services to improve living standards would mean an increase in social progress.

On the other hand, the trend at the top of the chart indicates that, after a certain level, one extra dollar of GDP brings less social progress.

A comparative analysis of the Global Innovation Index with the same economic indicator (GDP per capita) will have similar results, but this time, as shown in figure 3, the "protagonists" are different.

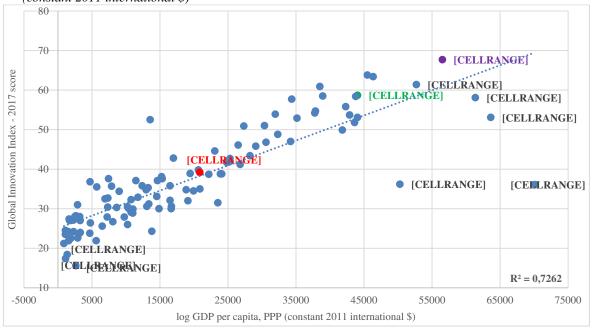
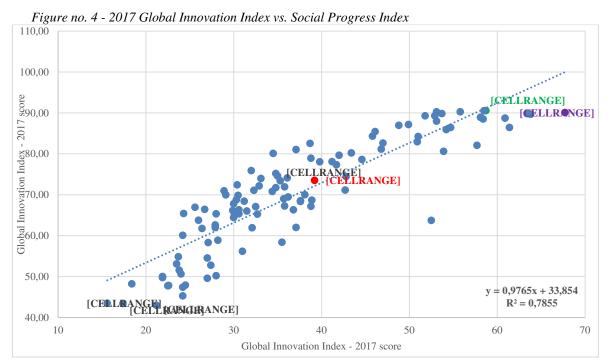


Figure no. 3 - 2017 Global Innovation Index vs. Log GDP per capita, PPP (constant 2011 international \$)

Norway, with a level of GDP just below Kuwait, ranks 16th in terms of the Global Innovation Index while Kuwait is 49th!

The answer to the question that gives the title of this paper is an analysis of the correlation between the two indicators. If, in previous analyzes, Kuwait was noted as the country with the highest GDP per capita, in Figure 4, we notice its position in the lower half of the regression line.



Source: Social Progress Index and Global Innovation Index 2017 (own processing)

Source: Global Innovation Index 2017 (own processing)

	df	SS	MS	F	Significance F	
Regression	1	15022.39	15022.39	395.4101	6.87E-38	
Residual	108	4103.129	37.99193			
Total	109	19125.52				
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Intercept	33.85436	1.919982	17.63265	1.44E-33	30.04862	37.6601
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#### ANOVA

In the hypothesis of a linear correlation, we see a strong dependence between the two indicators and the fact that the regression model built is valid.

In conclusion, we can state that the Global Innovation Index has a significant influence on social progress.

#### 5. Conclusions

Can we consider the Social Progress Index as having a higher significance than GDP per capita? We usually appreciate that the country that "lead" suits it also has the highest level of GDP. The Social Progress Index shows that such an analysis of the standard of living is erroneous, for example in the SPI 2017 ranking, Italy is in a higher position than Costa Rica (three places), although it has a GDP per capita three times great.

In the case of Romania, which has roughly the same GDP as Croatia, the discrepancy is even greater: Romania is at a difference of 7 places compared to Croatia (44 vs 37). Besides, if we speak at the level of the European Union, Romania is at the lower level of the ranking.

If we are talking about social progress, we also think about economic development that, as shown by the previous analysis, is based on innovation. Creating or identifying new sources of innovation is now vital to transforming the current economy. Over time, this is reflected in economic growth over a long period of time.

The Global Innovation Index is an indicator that helps to create policies to promote long-term growth in production, productivity growth and more jobs. At the same time, Global Innovation Index contributes to creating an economic environment where innovation factors are continually evaluated, basically we are talking about an evolving project based on previous editions and constantly updated with the latest data on the latest research on measurement innovation.

On the other hand, the analysis of Social Progress Index indicators helps us to identify performance at country or regional level. Moreover, the Social Progress Index has been adopted by some countries as part of the national development strategy, and the European Commission published it at the regional level of the European Union member states. It is worth noting that it has also been accepted and adopted by private companies to establish their investment strategies.

Recognizing the key role of innovation as the driving force of economic growth and prosperity and the need for a broad horizontal vision of innovation for emerging and emerging economies, we also recognize the role in developing social progress.

#### 6. References

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- https://www.socialprogressindex.com/

# Appendix

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United States         USA         52704         86.43         61.4         Kazakhstan         KAZ         23522         66.01         31.5           France         FRA         37775         85.92         54.2         Algeria         DZA         13823         65.41         24.3           Portugal         PRT         26514         85.44         46.1         Azerbaijan         AZE         1609         65.33         30.6           Slovenia         SVN         29097         84.32         45.8         Kyrgystan         KGZ         3225         52.32.7           Extonia         EST         27345         82.96         50.9         Indonesia         IDN         10385         65.10         30.1           Italy         ITA         34200         82.62         47         Botswana         BWA         14876         64.44         30.0           Chile         CHL         22197         82.43         83.7         China         CHN         1352         63.2         27.9           Costa Rica         CRI         14647         81.03         37.1         Mongolia         MNG         11478         62.00         37.1           Israel         ISR         31971	-	JPN	37875	86.44	54.7	Sri Lanka	LKA	11048	66.16	29.9
France         FRA         3775         85.92         54.2         Algeria         DZA         1823         65.41         24.3           Portugal         PRT         26514         85.44         46.1         Azerbaijan         AZE         16699         65.33         30.6           Slovenia         SVN         2907         84.32         45.8         Kyrgyztan         KGZ         322         65.33         28           Czech Republic         CZE         30381         84.22         51         Morocco         MAR         7365         65.25         32.7           Estonia         EST         2748         82.64         47         Botswana         BWA         14876         64.44         30           Chile         CHL         22197         82.54         38.7         Egypt         EGY         10250         63.72         62.72           Costa Rica         CRI         14647         81.03         37.1         Mongolia         MNG         11478         62.00         32.1           Uruguay         URY         19952         80.09         34.5         Honduras         HND         4785         61.76         24.2           Greece         GRC         24	*	USA	52704	86.43	61.4	Kazakhstan	KAZ	23522	66.01	31.5
Portugal         PRT         26514         85.44         46.1         Azerbaijan         AZE         16699         65.33         30.6           Slovenia         SVN         2007         84.32         45.8         Kyrgystan         KGZ         3225         65.33         28           Czech Republic         CZE         3031         84.22         51         Morocco         MAR         7365         65.25         32.7           Estonia         EST         27345         82.96         50.9         Indonesia         IDN         10385         65.10         30.1           Ialy         ITA         34200         82.62         47         Botswana         BWA         14876         64.44         30.0           Chile         CHL         2197         82.54         38.7         Egypt         EGY         1020         63.76         26           Cyprus         CYP         3064         81.15         46.8         Guatemala         GTM         725         63.22         7.9           Costa Rica         CRI         14647         81.03         37.1         Mongolia         MNG         11478         62.09         36.12         26.12           Poland         PO	France	FRA	37775	85.92	54.2	Algeria	DZA	13823	65.41	
Slovenia         SVN         29097         84.32         45.8         Kyrgyztan         KGZ         3225         65.33         28           Czech Republic         CZE         30381         84.22         51         Morocco         MAR         7365         65.23         32.7           Estonia         EST         27345         82.26         47         Botswana         BWA         14876         64.44         30           Chile         CHL         22197         82.54         38.7         Egypt         EGY         1020         63.76         25.5           Cyprus         CYP         30604         81.15         46.8         Guatemala         GTM         7253         62.62         27.9           Slovakia         CYR         30604         81.15         46.8         Guatemala         GTM         7253         62.62         27.9           Slovakia         SVK         28254         80.01         35.1         Mongolia         MNG         11478         61.08         27.9           Slovakia         SVK         28254         80.22         43.4         Iran         IRN         16507         61.93         32.1           Uragua         URY         1995	Portugal		26514			•				
						5				
Estonia         EST         27345         82.96         50.9         Indonesia         IDN         10385         65.10         30.1           Italy         ITA         3420         82.62         47         Botswana         BWA         14876         64.44         30           Chile         CHL         22197         82.54         38.7         Egypt         EGY         10250         63.76         25           Cyprus         CYP         30604         81.15         46.8         Guatemala         GTM         7253         62.62         27.9           Costa Rica         CRI         14647         81.03         37.1         Mongolia         MNG         11478         62.00         37.1           Israel         ISR         31971         80.61         53.9         Namibia         NAM         9778         61.98         23.21           Uruguay         URY         19952         80.02         43.4         Iran         IRN         16507         61.93         32.1           Uruguay         URY         19952         80.02         43.4         Iran         IRN         2661         58.87         22.12         61.76         26.7           Greece										
Italy         ITA         34220         82.62         47         Botswana         BWA         14876         64.44         30           Chile         CHL         219         82.54         38.7         Egypt         EGY         1020         63.70         25.5           Cyprus         CYP         3004         81.15         46.8         Guatemala         GTM         7253         62.62         27.9           Costa Rica         CRI         14647         81.03         37.1         Mongolia         MNG         11478         62.00         37.1           Israel         ISR         31971         80.61         53.9         Namibia         NAM         9778         61.98         27.9           Slovakia         SVK         28254         80.22         43.4         Iran         IRN         16507         61.93         32.1           Uruguay         URY         19952         80.93         34.5         Honduras         HND         4785         54.7         28.2           Latvia         LVA         23080         78.92         38.8         Tajikistan         TJK         2661         58.37         28.2           Latvia         Lithuania         LTU	*									
Chile Korea, Republic         CHL         22197         82.54         38.7         Egypt         EGY         10250         63.76         26           of         KOR         34387         82.08         57.7         China         CHN         13572         63.72         52.5           Cyprus         CYP         30604         81.15         46.8         Guatemala         GTM         7253         62.62         27.9           Costa Rica         CRI         14647         81.03         37.1         Mongolia         MNG         11478         62.00         37.1           Israel         ISR         31971         80.61         53.9         Namibia         NAM         9778         61.93         32.1           Uruguy         URY         19952         80.09         34.5         Honduras         HND         4785         61.76         26.4           Greece         GRC         24095         78.92         38.8         Tajikistan         TIK         2661         58.87         28.2           Latvia         LVA         23080         78.61         44.6         India         IND         57.30         35.1         71.1           Croatia         HRV										
Korea, Republic         result         result         result           of         KOR         34387         82.08         57.7         China         CHN         13572         63.72         52.5           Cyprus         CYP         30604         81.15         46.8         Guatemala         GTM         7253         62.62         27.9           Costa Rica         CRI         14647         81.03         37.1         Mongolia         MNG         11478         62.00         37.1           Israel         ISR         31971         80.61         53.9         Namibia         NAM         9778         61.98         27.9           Slovakia         SVK         22323         79.65         42         Nepal         NPL         2312         60.08         24.2           Greece         GRC         24095         78.69         34.2         Senegal         SEN         2274         58.31         27.1           Croatia         HRV         2664         78.09         41.2         Senegal         SEN         2274         58.31         27.1           Idhuania         LTU         26807         78.09         41.2         Senegal         SEN         2274	•									
of         KOR         34387         82.08         57.7         China         CHN         13572         63.72         52.5           Cypus         CYP         30604         81.15         46.8         Guatemala         GTM         723         62.62         77.9           Costa Rica         CRI         14647         81.03         37.1         Mongolia         MNG         11478         62.00         37.1           Israel         ISR         31971         80.61         53.9         Namibia         NAM         9778         61.93         32.1           Uruguay         URY         19952         80.09         34.5         Honduras         HND         4785         61.66         64.8           Poland         POL         25323         79.65         42         Nepal         NPL         2312         60.08         24.2           Greece         GRC         24095         78.92         38.8         Tajikistan         TJK         2661         58.87         28.2           Latvia         LTV         26067         78.09         41.2         Senegal         SEN         2214         58.16.17         313           Hungary         HUN         24831		CHE	22177	02.01	50.7	26790	201	10250	05.70	20
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	Cyprus		30604	81.15		Guatemala				
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Slovakia         SVK         28254         80.22         43.4         Iran         IRN         16507         61.93         32.1           Uruguay         URY         19952         80.09         34.5         Honduras         HND         4785         61.76         26.4           Poland         POL         25323         79.65         42         Nepal         NPL         2312         60.08         24.2           Greece         GRC         24095         78.92         38.8         Tajikistan         TJK         2661         58.87         28.2           Latvia         LVA         23080         78.61         44.6         India         IND         5730         58.39         35.5           Lithuania         LTU         26807         78.09         41.2         Senegal         SEN         2274         58.31         27.1           Groatia         HRV         24631         73.04         32.4         Cambodia         KHM         3278         54.54         23.7           Argentina         ARG         19126         75.90         32         Cambodia         KHM         3278         54.54         23.8           Patamitius         MUS         18864 <td></td> <td></td> <td></td> <td></td> <td></td> <td>0</td> <td></td> <td></td> <td></td> <td></td>						0				
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	Ecuador	ECU	10777	69.97	29.1	Niger	NER	897	42.97	21.2