



2017 WORLD STATE OF QUALITY

FOREWORD

In a globalized world, such as the one we live in, it is becoming increasingly important to make comparative studies of performance across organizations as well as territories. This allows one to identify strengths, gaps and areas for improvement, regarding the future of any given place. Therefore, rankings and benchmarks have become a common tool for different sectors of activity and countries as well.

Quite well known studies and reports are being produced regularly for characterization of how countries perform namely regarding issues such as competitiveness, innovation or entrepreneurship, just to name a few. However, when we tried to find similar information regarding quality and ways to portray the World State of Quality (WSQ), a lack of compiled information, data analysis or similar reports was found to be present, and as such representing also both a challenge and an opportunity.

Given this situation and context, we decided to go ahead and try to come up with an overall evaluation about how different countries perform in terms of quality, taking into account what were some of its most relevant dimensions. This is the overall ambition behind the attempt to create a World State of Quality (WSQ) scoreboard. Given the easier access to many sources of statistical information, we also decided at first, for the 2016 edition, to portray the State of Quality as it stands for the 28 European Union countries. As we got feedback from this effort, that we believe to be a pioneering one in the field, we have been able in this 2017 WSQ Edition and Report to adapt a similar approach but now expanded to 110 nations from all over the world, by means of using a subset of the indicators that supported our earlier European results, available on a broader international geographical space.

As a pioneering effort, there may be several areas for improvement to take into account for future work either related with the WSQ studies that we are trying to undertake, but open to additional possible partnerships. Therefore the WSQ team is quite open to receiving your contributions, insights and comments, hoping to count also on your possible interest in further collaborations in this or other related projects. Just share with us any thoughts that this report may lead to!

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LIST OF ABBREVIATURES

ARWU.....	Academic Ranking of World Universities
BMO.....	Birth Mortality Rate
ECO.....	Ecological Footprint
EDB.....	Ease of Doing Business Results
EDU.....	Education Index
EQS.....	European Quality Scoreboard
EQS-R.....	European Quality Scoreboard Report
EW.....	Environmental Wellbeing
EWB.....	Environmental Wellbeing Results
GCI.....	Global Competitiveness Index
GDP.....	Gross Domestic Product
gha.....	global hectare
GII.....	Global Innovation Index
GIN.....	Gini Index
HDR.....	Human Development Report
HLE.....	Healthy Life Expectancy
IAQ.....	International Academy for Quality
ISI.....	Institute for Scientific Information (Web of Knowledge)
ISO.....	International Organization for Standardization
Ixx.....	Indicator number
OEQS.....	Overall EQS Ranking Scores
OWSQ.....	Overall WSQ Ranking Scores
PAP.....	Number of Indexed Quality Papers Published
pc.....	per capita
PC.....	Principal Component
PCA.....	Principal Component Analysis
Rxx.....	Ranking number
SSF.....	Sustainable Society Foundation
The FYR Macedonia.....	The Former Yugoslav Republic of Macedonia
UNI.....	Number of Universities in International Research Rankings
UNPD.....	United Nations Development Programme
UNR.....	Unemployment Rate
WEF.....	World Economic Forum
WHI.....	World Happiness Index
WHO.....	World Health Organization
WSQ.....	World State of Quality
WSQ-R.....	World State of Quality Report

EXECUTIVE SUMMARY

The World State of Quality (WSQ) project aims the assessment, analysis and ranking of worldwide countries according to their levels of multidimensional quality performance in a way that is inspired by what has already been made for other areas or sectors of activity.

This second edition comes after the 2016 European Quality Scoreboard (EQS) results, a first attempt to portray the macroquality level for a small number of countries (the 28 European Union members) using a total of 21 quality related indicators.

The 2017 World State of Quality report (WSQ-R), here presented, is based upon 16 indicators and involves the analysis of 110 countries. These indicators, the methodology followed, the data used and also the results obtained are presented in this report.

World State of Quality Indicators and Results

The 2017 WSQ approach relies on 10 quality dimensions and 16 quality indicators, which try to convey, in a simple way, the macroquality levels of each country considered. All indicators were chosen taking into account the coverage of all defined dimensions (Organizations, Professionals, Research, Education, Health, Competitiveness, Social Cohesion, Sustainability, Innovation, and Satisfaction) and the 2017 WSQ results presented in this report come from the latest values available at mid 2017 for each indicator and country being considered.



The results divide countries into 5 different groups according to the Overall World State of Quality Ranking score (OWQS), based on the ranking positions obtained for each country and for each indicator, resulting in the following partition of countries: i) leading; ii) follower; iii) moderate; iv) lagging; and v) beginning. These 5 categories, defined after looking at performance differences between consecutive ranked countries, do cover the 110 countries considered as shown below.

Country	OWSQ Score	Group
1 Switzerland	16.074	LEADING
2 Norway	19.168	
3 Sweden	21.426	
4 Denmark	22.303	
5 Netherlands	22.692	
6 United Kingdom	22.736	
7 Germany	23.626	
8 Austria	24.476	
9 Finland	24.631	
10 Ireland	25.623	
11 Australia	25.855	
12 Japan	28.293	FOLLOWER
13 Czech Republic	29.194	
14 Canada	29.916	
15 United States	30.097	
16 Israel	30.587	
17 Slovenia	30.631	
18 Belgium	31.687	
19 France	32.826	
20 Estonia	33.671	
21 Italy	33.823	
22 Spain	33.900	
23 Luxembourg	33.964	
24 Portugal	35.073	
25 Romania	35.667	
26 Hungary	35.875	
27 Slovakia	36.846	
28 Poland	37.104	
29 Croatia	39.223	MODERATE
30 Cyprus	39.686	
31 Lithuania	40.381	
32 Latvia	40.936	
33 Malaysia	41.357	
34 Thailand	42.764	
35 Chile	43.602	
36 Greece	43.762	
37 Costa Rica	45.307	
38 Serbia	45.377	
39 Montenegro	45.401	
40 Bulgaria	46.101	
41 Mexico	46.529	
42 China	46.669	
43 Moldova	47.676	
44 Uruguay	48.872	
45 Russia	49.400	
46 Mauritius	49.721	
47 Panama	50.197	
48 The FYR Macedonia	50.299	
49 Colombia	52.836	LAGGING
50 Argentina	52.844	
51 Turkey	52.950	
52 Georgia	53.097	
53 Viet Nam	53.276	
54 Albania	53.583	
55 Peru	54.652	

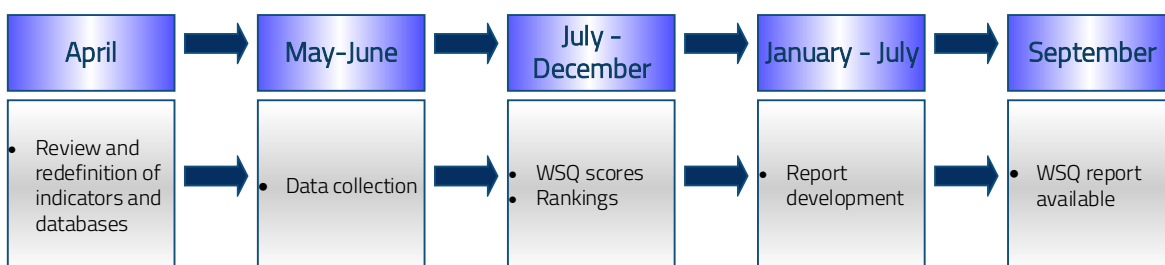
Country	OWSQ Score	Group
56 Sri Lanka	56.039	LAGGING
57 Indonesia	56.939	
58 Philippines	56.947	
59 Brazil	57.003	
60 Ukraine	57.051	
61 Azerbaijan	57.392	
62 Bosnia and Herzegovina	58.036	
63 Jamaica	58.107	
64 Ecuador	58.412	
65 El Salvador	58.456	
66 Armenia	58.483	
67 India	58.712	
68 Guatemala	59.598	
69 Tunisia	60.179	
70 Morocco	60.273	
71 Iran	62.123	BEGINNING
72 Nepal	62.791	
73 Rwanda	63.383	
74 Mongolia	63.682	
75 South Africa	64.320	
76 Cambodia	64.325	
77 Nicaragua	64.667	
78 Dominican Republic	65.462	
79 Paraguay	65.712	
80 Kyrgyzstan	66.086	
81 Tajikistan	67.104	
82 Venezuela	67.453	
83 Bhutan	67.655	
84 Honduras	67.662	
85 Kenya	68.108	
86 Uganda	68.353	
87 Pakistan	68.747	
88 Bangladesh	69.039	
89 Bolivia	70.280	
90 Tanzania	70.613	
91 Botswana	70.906	
92 Ghana	71.544	
93 Namibia	71.901	
94 Zambia	73.179	
95 Madagascar	73.313	
96 Ethiopia	73.466	
97 Zimbabwe	73.746	
98 Senegal	73.858	
99 Burkina Faso	74.303	
100 Cameroon	74.611	
101 Burundi	74.875	
102 Nigeria	74.930	
103 Benin	75.415	
104 Malawi	76.424	
105 Angola	77.878	
106 Mali	78.876	
107 Côte d'Ivoire	79.170	
108 Lesotho	79.188	
109 Guinea	80.098	
110 Mozambique	80.254	

WSQ Report Structure

This report comprises a brief introduction explaining the 2017 WSQ approach and the research methodology adopted, the indicators used and how they were standardized. Then, a specific country profile is shown for each country containing data for each indicator and general results. Some more detailed additional information is given by the end of the report as a set of Annexes.

Project Timeline for the 2017 WSQ

The work that was conducted regarding the 2017 WSQ follows the months and milestones shown below. The 2017 WSQ approach implies some changes over the 2016 version, mainly due to the lack of the desired data values for the larger set of countries now being covered. The most recent data available for each WSQ indicator by the mid of 2017 was employed.



INTRODUCTION AND INDICATORS

The World State of Quality (WSQ) approach and the results presented in this report aim to understand how each country performs at a macroquality level. For this purpose, a comparison across 110 countries and taking into account the results for each country over 16 quality related indicators is provided. These 16 indicators do cover several areas and correspond to 10 different quality dimensions.

A final overall score was calculated and allows the characterization of each country in terms of strengths and improvement areas. We hope this will result in a valuable and helpful tool for national or international institutions and organizations, in order to understand and address priorities and areas for further improvement at any particular given country.

The WSQ approach contributes to understand quality country profiles by assuming a multiscale perspective, i.e., the “multiscale quality” perspective. According to this view, quality can be studied according to several scales and different dimensions of time and space depending on the scales at which particular quality challenges or problems do arise (Figure 1).

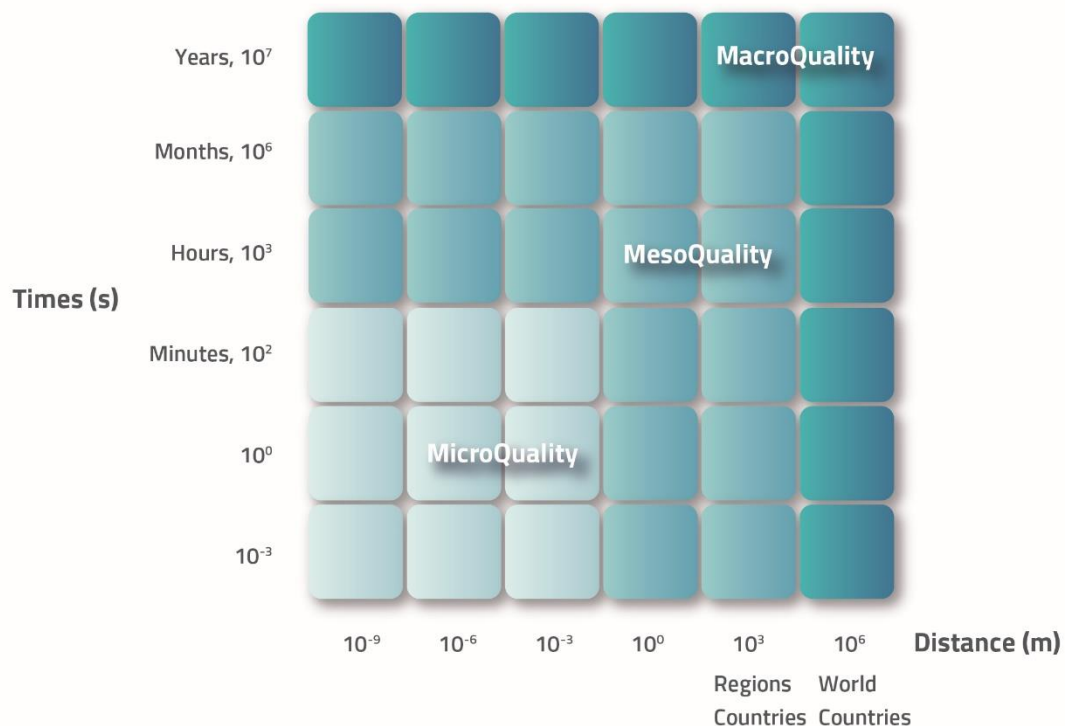


Figure 1 – Multiscale Quality.

The categories of scales in Figure 1 are merely indicative intending to cover a wide range of orders of magnitude both in terms of time and space dimensions. This highlights the relevance of ‘Glocal Quality’, thus reflecting the need not only to “think global, and act local”, but also to “think local, and act global” combining both a “top down” and a “bottom up” perspectives as far as quality is concerned. For instance, when we are talking about manufacturing quality issues in a nanotechnology plant, we need to address quality at the

magnitude of nanometers (space) and nanoseconds (time). Another example is the national agenda for quality development of a given country, which needs to take years in the time scale and it involves the scale space at the national or international level embracing organizations that could even be spread around the world. This macroquality level is the one at which our WSQ project does position itself.

A first approach was made in 2016 in order to fill the lack of methodologies and results that help to measure and understand the macroquality of each country. This first attempt was made for all the 28 European Union countries based on 21 quality related indicators (more information available at wsq.dps.uminho.pt).

The 2017 WSQ report does adapt and expand the methodology and approach of the 2016 EQS. The indicators chosen were redefined and updated, taking into account to cover a larger set of countries.

The 2017 WSQ approach does comprise 10 quality dimensions (Figure 2) and 16 quality related indicators, showing a multivariate portray of the macroquality performance level for 110 countries, from all the continents, that we were able to study.

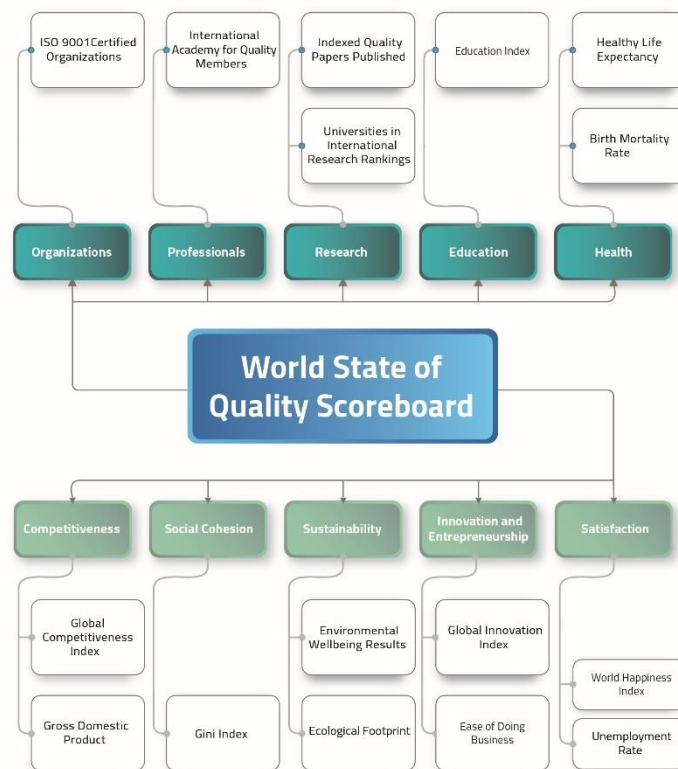


Figure 2 – World State of Quality model dimensions and indicators.

The quality dimensions of the WSQ approach intend to characterize the efforts that are being made to support, develop and promote macroquality performances, involving several areas:

- i) Organizations, having to do with the number of entities that have been certified according to relevant quality standards;
- ii) Professionals, dealing with the number of quality professionals recognized according to relevant processes and organizations;

- iii) Research, addressing the intensity of research activities carried out, and in particular those related specifically with the quality field;
- iv) Education, covering indicators related to the quality of education;
- v) Health, including measurements that are connected with quality achieved in this sector and its impacts over personal lives;
- vi) Competitiveness, both based upon aggregate country ranking results as well as GDP (Gross Domestic Product) values achieved;
- vii) Social Cohesion, taking into account the standard deviation reduction in terms of wealth distribution as the corresponding wealth average values;
- viii) Sustainability, where one addresses environmental related indicators that are connected with the preservation of natural resources and reduction of negative impacts;
- ix) Innovation, as a driver for quality, as well as outputs that can be made more efficient if carried out using appropriate quality tools and approaches;
- x) Satisfaction, corresponding to the perceptions of citizens from each country regarding quality of life.

Each dimension has one or two indicators, as shown in Table 1, and intends to characterize macroquality according to the perspective connected with that specific area.

Table 1 – World State of Quality indicators.

DIMENSION	INDICATOR
Organizations	Number of ISO 9001 Certified Organizations
Professionals	Number of International Academy for Quality Members
Research	Number of Indexed Quality Papers Published
	Number of Universities in International Research Rankings
Education	Education Index
Health	Healthy Life Expectancy
	Birth Mortality Rate
Competitiveness	Global Competitiveness Index
	Gross Domestic Product
Social Cohesion	Gini Index
Sustainability	Environmental Wellbeing Results
	Ecological Footprint
Innovation	Global Innovation Index
	Ease of Doing Business Results
Satisfaction	World Happiness Index
	Unemployment Rate

For all of such indicators, and whenever needed, scaled values were used, in order to allow for comparisons to be made between countries of different sizes, and this was mostly achieved by computing the corresponding values *per capita*, taking into account the populations for each of the considered countries.

WSQ uses the latest data available from public databases or published reports with periodic and reliable updates and all the values used in this report concern to those that one were able to find out as of June 2017.

While a more complete list of indicators, data sources and computations performed is provided in Annex 1, in this section it is presented a brief description of the 16 indicators that supports the 2017 WSQ scoreboard.

Indicator 1 – Number of ISO 9001 Certified Organizations

This indicator measures the number of valid ISO 9001 certificates that were issued by certification bodies in any given country, as reported every year by the ISO survey. That number is then divided by each country's total population (all residents).

Indicator 2 – Number of International Academy for Quality Members

This indicator measures the total number of International Academy for Quality (IAQ) members at any given country, and including the different types of IAQ membership (Councilor, Honorary Members, Academician Emeritus, Academician Members, Companion, Associate Academicians and Corresponding Academicians). That number is then divided by each country's total population (all residents).

Indicator 3 – Number of Indexed Quality Papers Published

The number of quality related papers published in Scopus and ISI Web of Knowledge databases in the last 10 years with specific keywords in the abstract, title or keywords that were considered to be related to quality research activities (quality management, quality improvement, quality engineering, quality culture, quality tools, quality goals, quality function deployment, design for six sigma, six sigma, process improvement, statistical process control, statistical quality control, design of experiments and total quality management). That number is then divided by each country's total population (all residents).

Indicator 4 – Number of Universities in International Research Rankings

This indicator considers the number of universities from any given country that do show up in the Shanghai ranking (Academic Ranking of World Universities – ARWU) top 500 higher education institutions, according to a number of criteria, mostly related with research outputs being achieved. That number is then divided by each country's total population (all residents).

Indicator 5 – Education Index

This indicator is the education index that evaluates the knowledge dimension of the human development index of a given country.

Indicator 6 – Healthy Life Expectancy

This indicator corresponds to the expected number of years of life, under healthy conditions, without diseases and/or injuries that result in incapacity or less health, that correspond to each country.

Indicator 7 – Birth Mortality Rate

This indicator considers the number of deaths of infants (under one) per 1000 live births at any given country.

Indicator 8 – Global Competitiveness Index

This indicator corresponds to the Global Competitiveness Index scores obtained for each country, according to the World Economic Forum (WEF) Competitiveness Report, an index published every year according to several dimensions and metrics that are combined together in an overall country competitiveness ranking supported by the WEF.

Indicator 9 – Gross Domestic Product

The Gross Domestic Product (GDP) is a well known macroeconomic indicator that measures the expenditure on final goods and services by all resident producers at any given country. That number is then divided by each country's total population (all residents).

Indicator 10 – Gini Index

The Gini index measures the degrees of inequality and dispersion of the distribution of income across families and individuals at any given country.

Indicator 11 – Environmental Wellbeing Results

The Environmental Wellbeing (EW) indicator provides an aggregated evaluation of overall environmental performance achieved at any given country.

Indicator 12 – Ecological Footprint

This indicator is defined as the demand on nature regarding how much area of resources is being used by any given country, allowing for comparisons of results across different nations according to the corresponding sustainability metric.

Indicator 13 – Global Innovation Index

The Global Innovation Index (GII) intends to analyze the overall innovation performance (including both drivers and results, as well as innovation as applied to organizations, products, services and processes) achieved in different countries.

Indicator 14 – Ease of Doing Business Results

This indicator scores the regulatory environment and bureaucracy in any given country according to several metrics that allow to measure efficiency in company creation and development, leading to an international ranking driven by how difficult or easy it is to do business.

Indicator 15 – World Happiness Index

This indicator assesses the happiness as a measure of social progress through six key variables: Gross Domestic Product per capita, healthy life expectancy, social support, generosity, freedom to make life choices, and perceptions of corruption.

Indicator 16 – Unemployment Rate

This indicator measures the percentage of total labor force that is unemployed but actively looking for a paid job and ready to work within the scope of the population that is in working-age, for any given country. Different studies point out that unemployed people, as one might expect, typically present low perceived overall life satisfaction levels, and thus it is also taken into account here as being a proxy for satisfaction.

OVERALL WORLD STATE OF QUALITY SCOREBOARD RANKING SCORES

Taking into account the WSQ framework and indicators, it was possible to collect data from 110 worldwide countries. A 110x16 basic data matrix was developed and it is composed by the latest values available as of the end of June 2017 for all the 16 indicators that compose the WSQ framework across the 10 dimensions for all the 110 considered countries. Some values had to be scaled, whenever appropriate, depending on the corresponding population, namely Number of ISO 9001 Certified Organizations, Number of International Academy for Quality Members, Number of Indexed Quality Papers Published, and Number of Universities in International Research Rankings.

With this complete set of data, comprising therefore a total of 1760 values (presented in Annex 2), we then computed a similar 110x16 data matrix, but now with the indicator values being replaced by the relative position of each country according to each of the indicators, meaning that for each indicator now in the columns rather than the absolute values we consider the relative positions for the 110 worldwide countries, ranging from 1 (best performance) to 110 (worst performance), but also taking into account the situations where ties were found (this alternative data matrix is shown in Annex 3).

Over both of these data matrices (Annexes 2 and 3) several multivariate statistical analysis were performed, and the second one (Annex 3) supported the computation of our Overall World State of Quality Ranking Scores (OWSQ).

The OWSQ follows the same rationale of the Overall European Quality Scoreboard 2016 (OEQS), but now with ranking positions that range from 1 to 110 (the total number of countries considered). As an example, if a country gets an average ranking position of 50, it means that the country achieved an overall average of 50 across all of the 16 indicators. However, rather than using a simple average of the 16 indicator rankings, it was used a weighted average, taking in account the fact that some indicators are considered to be more relevant than others in terms of their contribution to the overall quality performance achieved at any particular country or territory.

This average weight for each indicator was determined based in the one used in our 2016 OEQS results. At the time, a quality international experts' panel was asked to define the weight of each indicator according to its importance, on a scale ranging from 1 (very small relevance) to 5 (very high relevance). The average relevance for each indicator of the 2016 EQS approach was obtained from this group of 19 quality experts and formed the basis for the definition of the new average relevance for each indicator, and the corresponding weight for average performance computations.

Keeping in mind such results, but now adapting them to the set of 16 indicators considered in our 2017 WSQ project, we did come up with the final set of weights shown in Table 2. For a simple average over the 16 indicators all weights would be equal to 0.063, and the weights obtained, and taken into account for OWSQ computations, they do range from 0.048 (IAQ members) to 0.077 (World Happiness Index).

Table 2 - Weight of each indicator for the OWSQ scores.

INDICATOR	WEIGHT (P_i)
Number of ISO 9001 Certified Organizations	0.060
Number of International Academy for Quality Members	0.048
Number of Indexed Quality Papers Published	0.062
Number of Universities in International Research Rankings	0.059
Education Index	0.059
Healthy Life Expectancy	0.064
Birth Mortality Rate	0.062
Global Competitiveness Index	0.066
Gross Domestic Product	0.064
Gini Index	0.057
Environmental Wellbeing Results	0.061
Ecological Footprint	0.062
Global Innovation Index	0.066
Ease of Doing Business Results	0.066
World Happiness Index	0.077
Unemployment Rate	0.065

According to the above methodology, the final OWSQ values were computed for the 110 worldwide countries. We were able to come up with 5 categories of countries depending on their values by using the principle to define groups whose scores present chains with similar values. For that purpose, a difference (Diff) was computed as $OWSQ(\text{country } i) - OWSQ(\text{country } i-1)$, and whenever this chain did find major discontinuities, due to larger differences between the OWSQ scores of consecutive countries, using a threshold of 1.75 as the minimum value, another group of countries was formed. Furthermore, the minimum group size was set to be five and the 5 final categories of countries thus obtained are named as follows: Leading (1-11), Follower (12-28), Moderate (29-48), Lagging (49-70) and Beginning (71-110), as shown in Table 3.

As one can see from these results, the OWSQ scores range from 16.074, for Switzerland (best country in the WSQ ranking) and 80.254 for Mozambique (worst country in the WSQ ranking). There are several quality profiles associated with each one of the 110 worldwide countries according to their performance in the different indicators and dimensions considered, as the OWSQ ranking is a computation of the values obtained across all the indicators. Diverse ways and a wide variety of situations are adopted to achieve national "macroquality". It is important and quite curious to point out that the world geography can be grouped according to the OWSQ scores, but however no single country outperforms or underperforms the others for all the indicators considered.

The WSQ results also show that no single country is able to lead the way in all or most of the indicators. Switzerland is occupying the first position in the ranking with an OWSQ score of 16.074, which means that, on average, Switzerland is positioned close to the 16th across all the 16 WSQ indicators. Actually, the individual indicator ranking positions of Switzerland, even being the first country on the OWSQ ranking, raises from the 1st to the 91st position over the 110 countries, depending upon the particular indicator being considered.

Table 3 - Final OWSQ scores obtained.

Country	OWSQ Score	Group	Country	OWSQ Score	Group
1 Switzerland	16.074	LEADING	56 Sri Lanka	56.039	LAGGING
2 Norway	19.168		57 Indonesia	56.939	
3 Sweden	21.426		58 Philippines	56.947	
4 Denmark	22.303		59 Brazil	57.003	
5 Netherlands	22.692		60 Ukraine	57.051	
6 United Kingdom	22.736		61 Azerbaijan	57.392	
7 Germany	23.626		62 Bosnia and Herzegovina	58.036	
8 Austria	24.476		63 Jamaica	58.107	
9 Finland	24.631		64 Ecuador	58.412	
10 Ireland	25.623		65 El Salvador	58.456	
11 Australia	25.855		66 Armenia	58.483	
12 Japan	28.293	FOLLOWER	67 India	58.712	BEGINNING
13 Czech Republic	29.194		68 Guatemala	59.598	
14 Canada	29.916		69 Tunisia	60.179	
15 United States	30.097		70 Morocco	60.273	
16 Israel	30.587		71 Iran	62.123	
17 Slovenia	30.631		72 Nepal	62.791	
18 Belgium	31.687		73 Rwanda	63.383	
19 France	32.826		74 Mongolia	63.682	
20 Estonia	33.671		75 South Africa	64.320	
21 Italy	33.823		76 Cambodia	64.325	
22 Spain	33.900		77 Nicaragua	64.667	
23 Luxembourg	33.964		78 Dominican Republic	65.462	
24 Portugal	35.073		79 Paraguay	65.712	
25 Romania	35.667		80 Kyrgyzstan	66.086	
26 Hungary	35.875		81 Tajikistan	67.104	
27 Slovakia	36.846		82 Venezuela	67.453	
28 Poland	37.104		83 Bhutan	67.655	
29 Croatia	39.223	MODERATE	84 Honduras	67.662	
30 Cyprus	39.686		85 Kenya	68.108	
31 Lithuania	40.381		86 Uganda	68.353	
32 Latvia	40.936		87 Pakistan	68.747	
33 Malaysia	41.357		88 Bangladesh	69.039	
34 Thailand	42.764		89 Bolivia	70.280	
35 Chile	43.602		90 Tanzania	70.613	
36 Greece	43.762		91 Botswana	70.906	
37 Costa Rica	45.307		92 Ghana	71.544	
38 Serbia	45.377		93 Namibia	71.901	
39 Montenegro	45.401		94 Zambia	73.179	
40 Bulgaria	46.101		95 Madagascar	73.313	
41 Mexico	46.529		96 Ethiopia	73.466	
42 China	46.669		97 Zimbabwe	73.746	
43 Moldova	47.676		98 Senegal	73.858	
44 Uruguay	48.872		99 Burkina Faso	74.303	
45 Russia	49.400		100 Cameroon	74.611	
46 Mauritius	49.721		101 Burundi	74.875	
47 Panama	50.197		102 Nigeria	74.930	
48 The FYR Macedonia	50.299		103 Benin	75.415	
49 Colombia	52.836	LAGGING	104 Malawi	76.424	
50 Argentina	52.844		105 Angola	77.878	
51 Turkey	52.950		106 Mali	78.876	
52 Georgia	53.097		107 Côte d'Ivoire	79.170	
53 Viet Nam	53.276		108 Lesotho	79.188	
54 Albania	53.583		109 Guinea	80.098	
55 Peru	54.652		110 Mozambique	80.254	

On the other hand, Mozambique, the last country in the ranking, does have an OWSQ score of 80.254, meaning that Mozambique is the 80th position, on average, with individual indicator ranking positions varying between the 5th and 108th positions. As 110 countries were studied, the final weighted average depends on the weight for each indicator and also the ranking position leading to this range, reflecting relative strengths and weaknesses for each country. Therefore, there is no single way for interpreting and implementing quality worldwide, and verifying this diversity is a clear interesting conclusion coming from this WSQ report, which also points to the different groups of countries as illustrated in Figure 3.

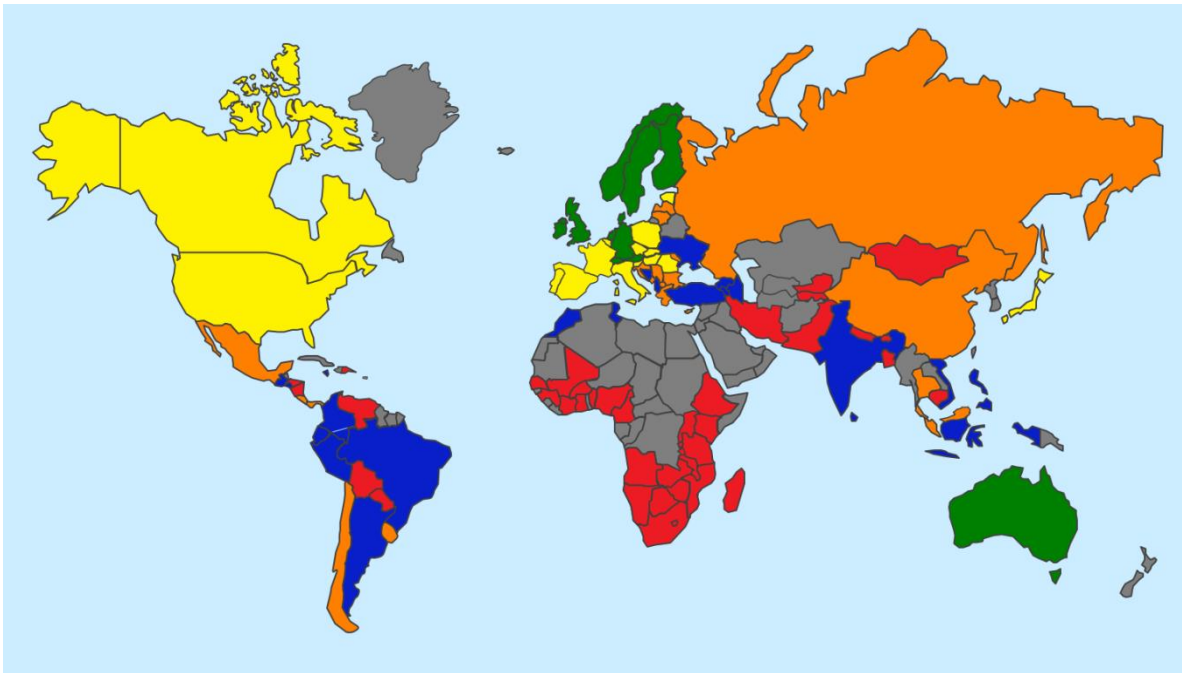
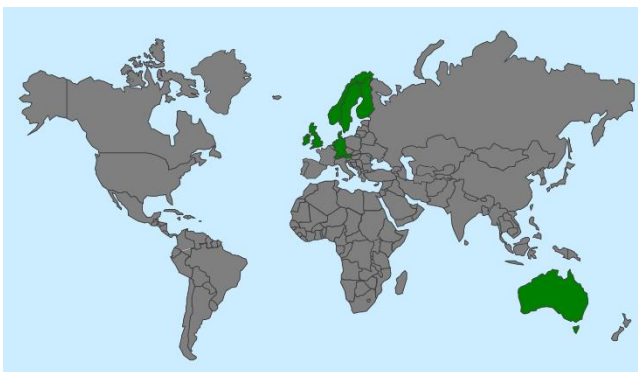


Figure 3 - Country performance according to OWSQ 2017 scores (green: leading; yellow: follower; orange: moderate; blue: lagging; red: beginning; grey: no data available).

A deeper look into this overall picture helps to get a better understanding of the five groups of countries considered and mentioned above.

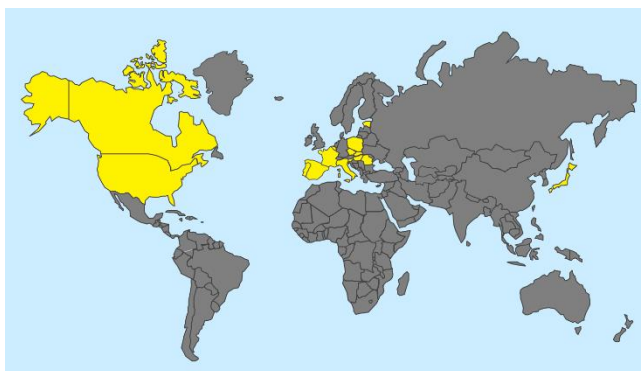
Leading



The leading group has 11 countries with OWSQ scores ranging between 16.074 and 25.855. These leading countries are Switzerland, Norway, Sweden, Denmark, Netherlands, United Kingdom, Germany, Austria, Finland, Ireland, and Australia.

It should be highlighted that all the Scandinavian countries (Norway, Sweden, Denmark and Finland) are leading countries. Furthermore, besides Australia, all the leading countries are located in Europe.

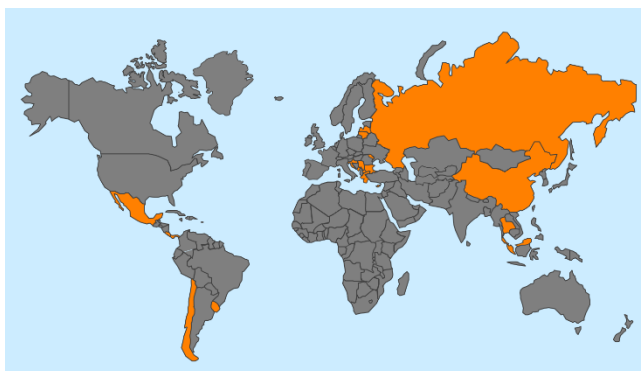
Follower



There are 17 countries in the follower group, with OWSQ scores ranging between 28.293 and 37.104. These follower countries are Japan, Czech Republic, Canada, United States, Israel, Slovenia, Belgium, France, Estonia, Italy, Spain, Luxembourg, Portugal, Romania, Hungary, Slovakia, and Poland.

These countries correspond essentially to European and North American countries and Japan and Israel also are in this group.

Moderate



The moderate group comprises 20 countries: Croatia, Cyprus, Lithuania, Latvia, Malaysia, Thailand, Chile, Greece, Costa Rica, Serbia, Montenegro, Bulgaria, Mexico, China, Moldova, Uruguay, Russia, Mauritius, Panama, and The FYR Macedonia. They have OWSQ scores ranging between 39.223 and 50.299.

This group corresponds to a combination of several European countries, mainly from Eastern Europe, together with some Asian countries, as well as Central American ones and Mauritius.

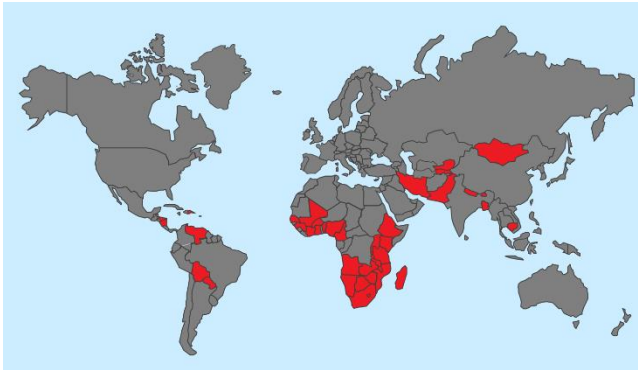
Lagging



The lagging group comprises 22 countries, and their OWSQ values range from 52.836 to 60.273. These lagging countries are Colombia, Argentina, Turkey, Georgia, Viet Nam, Albania, Peru, Sri Lanka, Indonesia, Philippines, Brazil, Ukraine, Azerbaijan, Bosnia and Herzegovina, Jamaica, Ecuador, El Salvador, Armenia, India, Guatemala, Tunisia, and Morocco.

This is a very heterogeneous group from a geographical point of view, with countries from America, Europe, and Asia.

Beginning



The beginning group is composed by 49 countries, with OWSQ scores ranging from 62.123 to 80.254. The beginning countries are Iran, Nepal, Rwanda, Mongolia, South Africa, Cambodia, Nicaragua, Dominican Republic, Paraguay, Kyrgyzstan, Tajikistan, Venezuela, Bhutan, Honduras, Kenya, Uganda, Pakistan, Bangladesh, Bolivia, Tanzania, Botswana,

Ghana, Namibia, Zambia, Madagascar, Ethiopia, Zimbabwe, Senegal, Burkina Faso, Cameroon, Burundi, Nigeria, Benin, Malawi, Angola, Mali, Côte d'Ivoire, Lesotho, Guinea, and Mozambique.

Most African countries belong to this group, together with another subset of American, Asian and European countries.

WSQ – MAIN MULTIVARIATE STATISTICAL RESULTS

Multivariate statistical analysis was performed using data from Annexes 2 and 3, either in terms of scaled data or ranking positions. In both cases, the matrices have dimensions 110x16. This analysis complements and consolidates the results of the 2017 WSQ presented in this report, coming up with additional insights and conclusions.

Principal Component Analysis

The first Principal Component Analysis (PCA) was applied to the data set (Annex 2.2) and shows that the first principal component explains approximately 60.7% of the total data variation (Figure 4). This means that a clear and strong correlation backbone is visible linking a large portion of the indicators to the point that a linear combination of them explains this large fraction of data variability with much smaller complementary contributions coming from the next principal components.

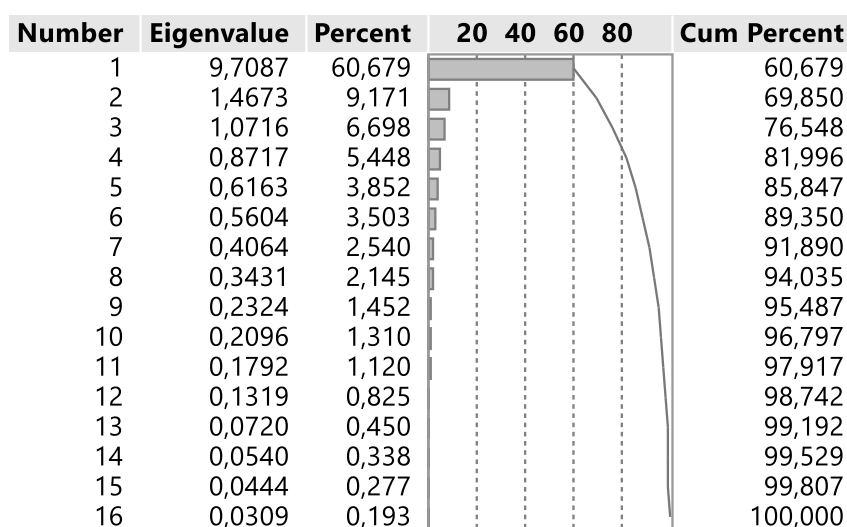


Figure 4 - PCA analysis: percentage of variability explained by the successive principal components.

It is possible to observe that the ranking of countries is well-explained by the first Principal Component (PC) scores. These ones resemble the overall final WSQ ranking made according to our OWSQ (Figure 5), providing further statistical consistency to the 2017 WSQ results.

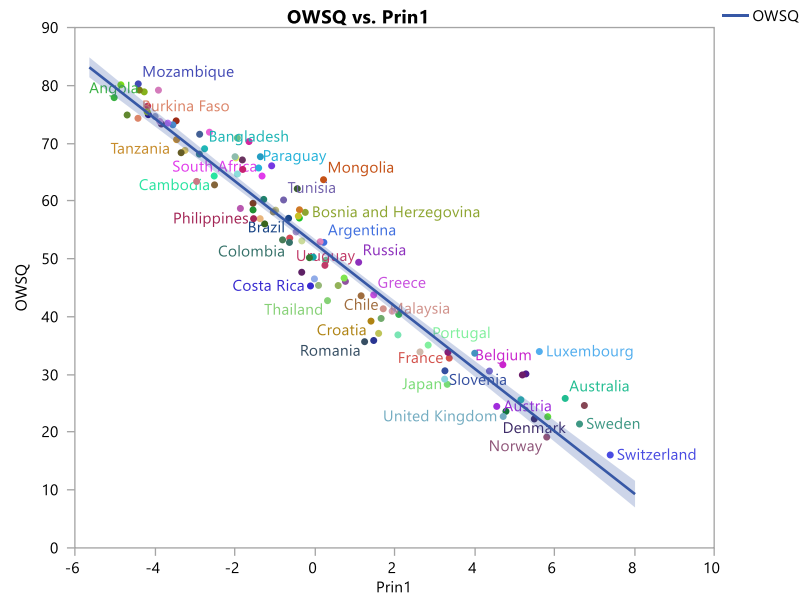


Figure 5 - OWSQ vs Scores of First Principal Component.

Furthermore, we can see that all countries seem to follow a curvilinear trend in the scores space of PC1 versus PC2 (Figure 6). Angola, Burkina Faso, Burundi, Guinea are falling at one extreme of the trend, while Finland, Switzerland, and Sweden fall in the other extreme.

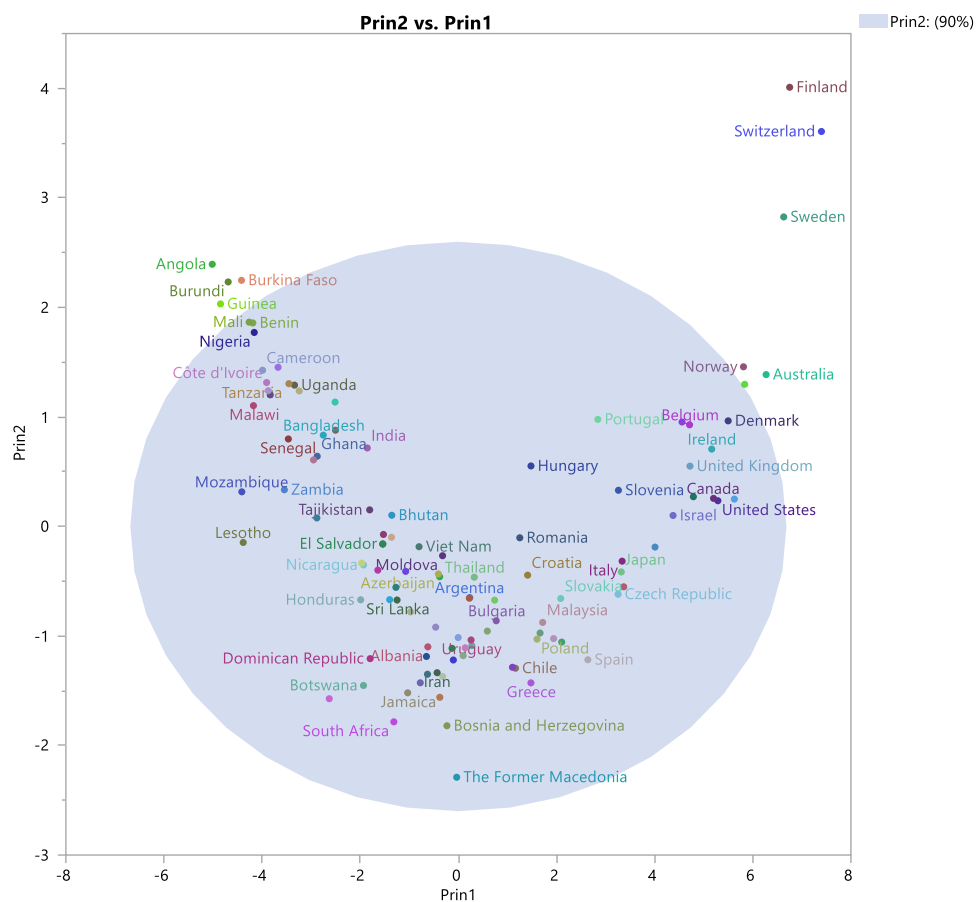


Figure 6 - PCA analysis: scores plot for the first two PCs, with 95% confidence level perimeter.

The weight of each WSQ indicator to the first Principal Component can be observed by analyzing the corresponding loading values (Figure 7). One can see that the highest values correspond to the Global Innovation Index, Global Competitiveness Index, Education Index, Ecological Footprint, while the smallest ones correspond to Unemployment Rate, Gini Index, International Academy of Quality Members, and ISO 9001 Certifications.

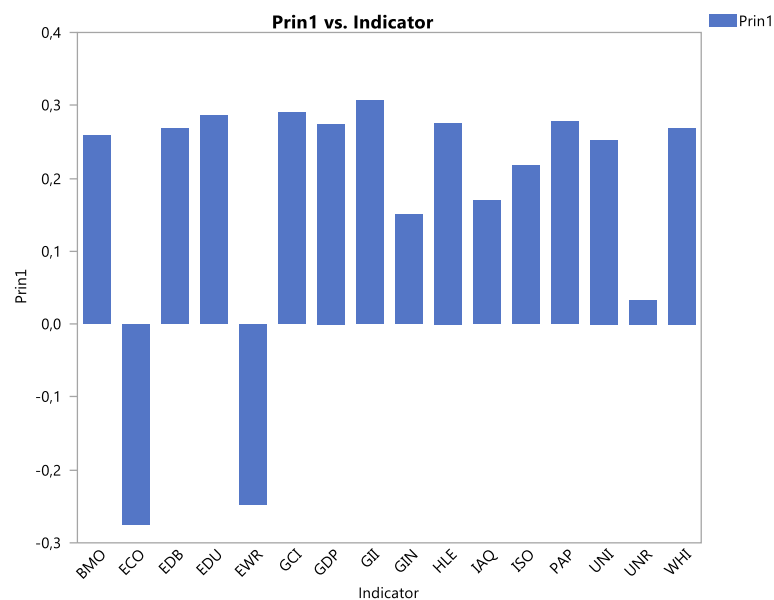


Figure 7 - Loads of the several EQS indicators in the first Principal Component.

(ISO - Number of ISO 9001 Certified Organizations; IAQ - Number of International Academy for Quality Members; PAP - Number of Indexed Quality Papers Published; UNI - Number of Universities in International Research Rankings; EDU - Education Index; HLE - Healthy Life Expectancy; BMO - Birth Mortality Rate; GCI - Global Competitiveness Index; GDP - Gross Domestic Product; GIN - Gini Index; EWR - Environmental Wellbeing Results; ECO - Ecological Footprint; GII - Global Innovation Index; EDB - Ease of Doing Business Results; WHI - World Happiness Index; UNR - Unemployment Rate)

Clustering

Clustering analysis was also conducted over the same data set in order to identify the similarity structure (or lack of it) across the 110 worldwide countries, according to the positions they occupy in the multidimensional space corresponding to the 16 WSQ indicators considered (Annex 3).

Looking to Figure 8, from a hierarchical clustering perspective, a first partition creates two groups of countries, one including to 33 countries (that includes all of our Leading and Follower countries, as well as 5 Moderate countries), and the other the remaining 77 countries (corresponding to all of the Beginning and Lagging countries, as well as the remaining 15 Moderate countries). This is therefore quite consistent with the results of the OWSQ categories of countries. If we take a closer look into the geographical region of the countries of each branch, different connected countries can be found highlighting the diversity of quality ways depending on different countries or geographical regions.

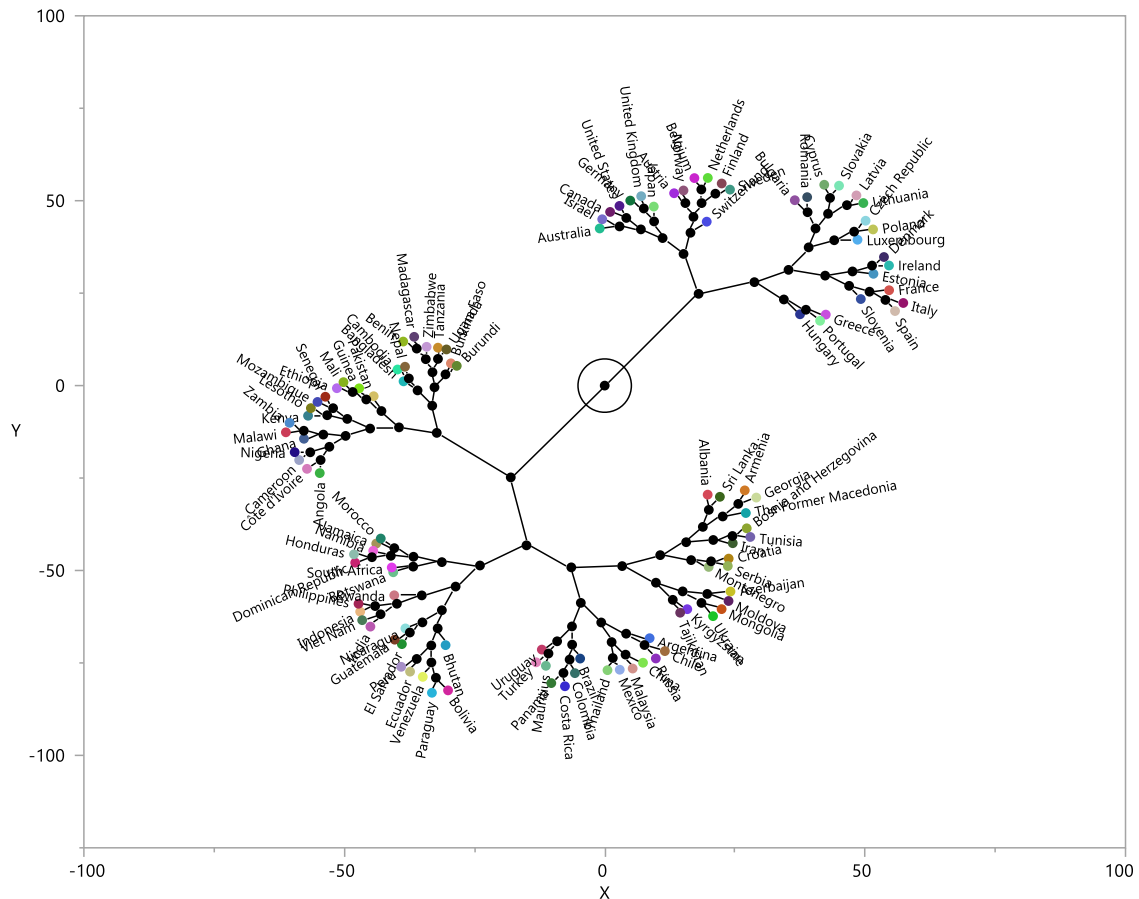


Figure 8 - Cluster Constellation Plot positions for the 110 countries.

A dendrogram was also computed using the ranking data of countries and results can be seen in Figure 9, where the 16 WSQ indicators are grouped in 5 clusters. Different quality profiles can be highlighted according to the ranking positions occupied by each country over the 16 WSQ indicators. It is possible to note a close connection between the clusters and subclusters of countries formed and also the groups of countries formed based on the OWSQ scores (Table 3).

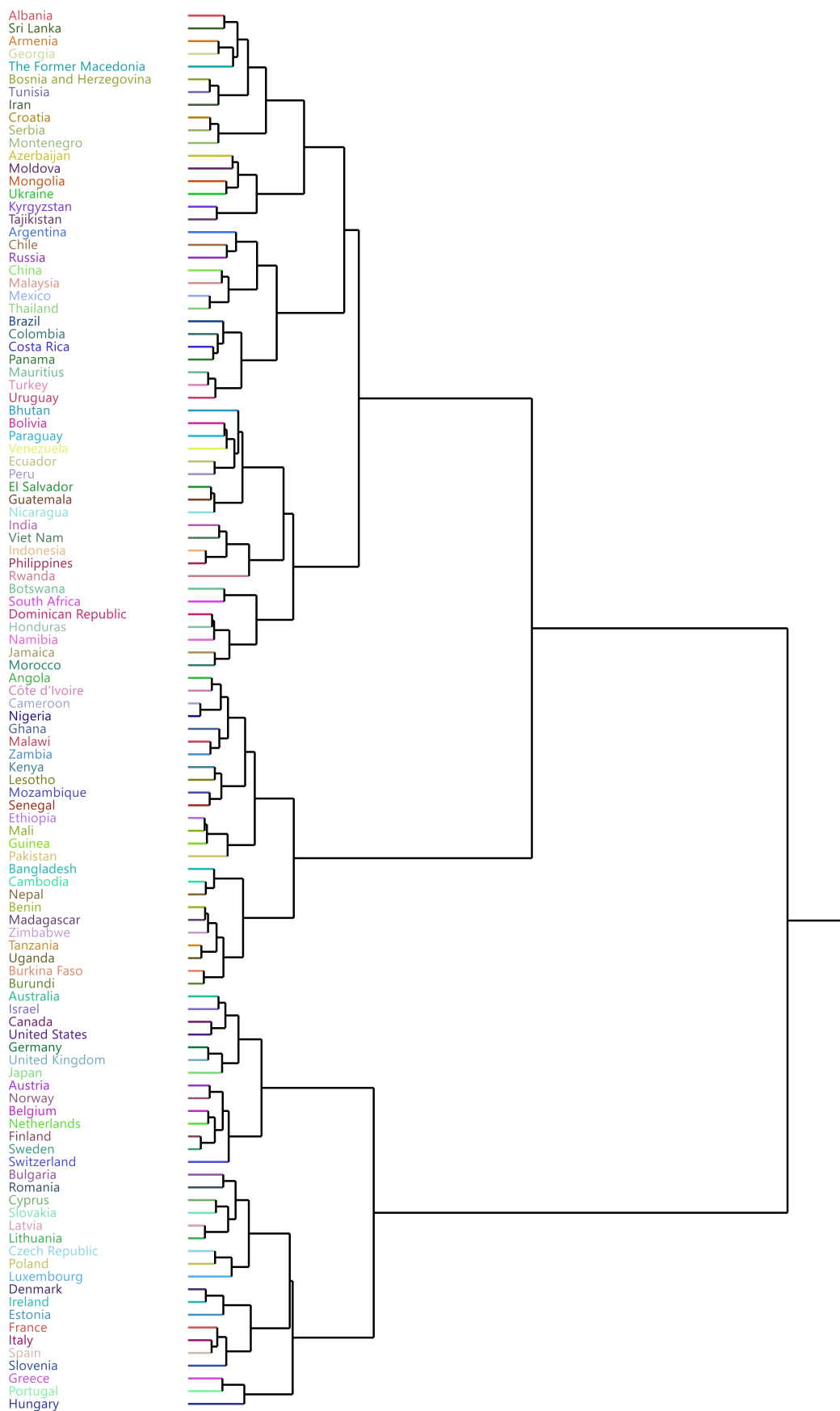


Figure 9 - Dendrogram obtained for the 110 countries using ranking values for the indicators.

Quality profiles

Different quality paths to understand and deal with quality can be identified. The quality profiles of the Leading countries are particularly strong regarding most of the indicators and dimensions (Organizations, Professionals, Research, Education, Health, Competitiveness, Social Cohesion, and Innovation), but not so good with regards to the Sustainability dimension (Figure 10).

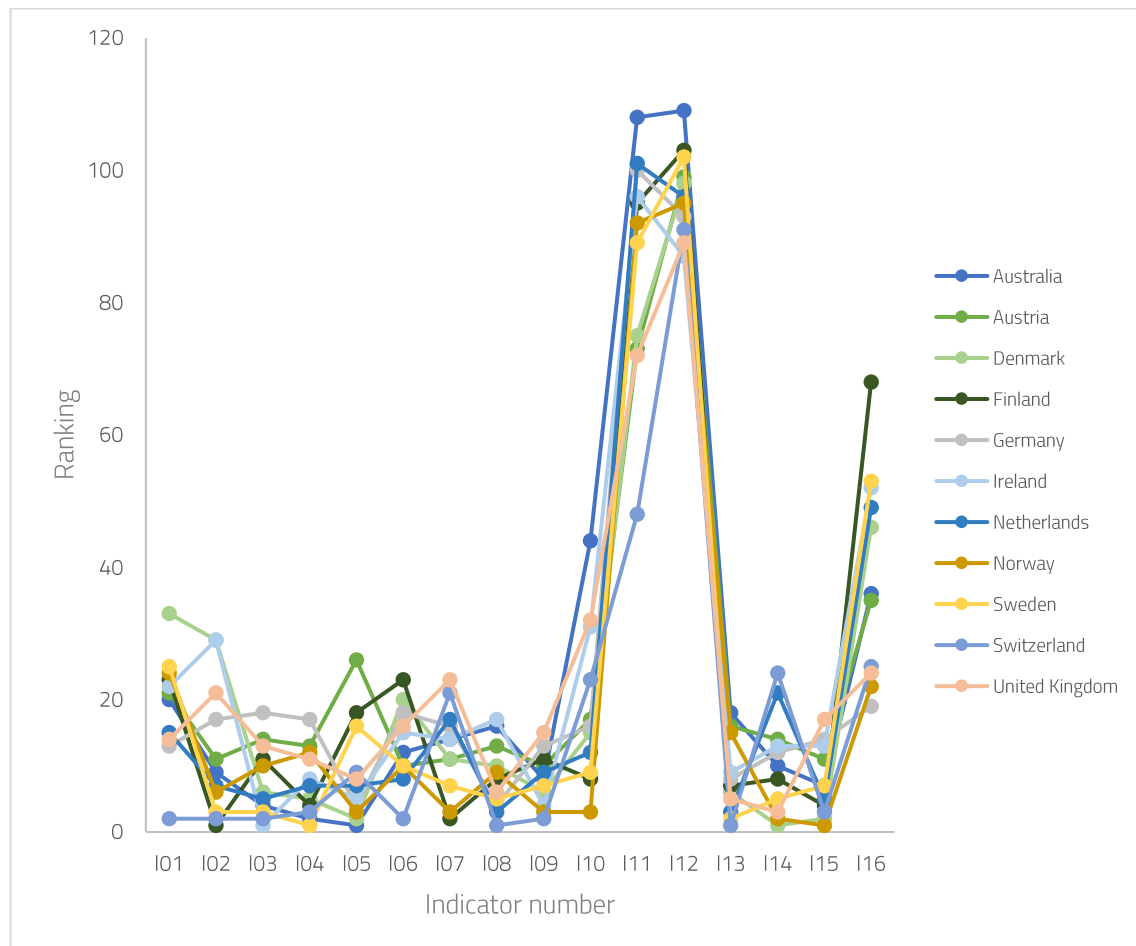


Figure 10 - Leading WSQ rankings quality profiles.

Looking now into the opposite side, the Beginning countries show a quality profile that can be seen in Figure 11. Although a broader profile was found across all the dimensions, one can see that the Sustainability dimension does seem to show a global good performance in almost all the Beginning countries, contrasting with the others indicators and dimensions.

Other examples might also be provided but these ones are enough to understand the different ways of interpreting quality at a societal level, highlighting that no single country outperforms or underperforms the others across all the indicators. This means that different quality profiles, as well as different opportunities for improvement can be found using this approach regarding macroquality measurement. Strengths, gaps and weaknesses can be easily identified using this macro view of quality for a country and can lead to new policies for quality in every single country.

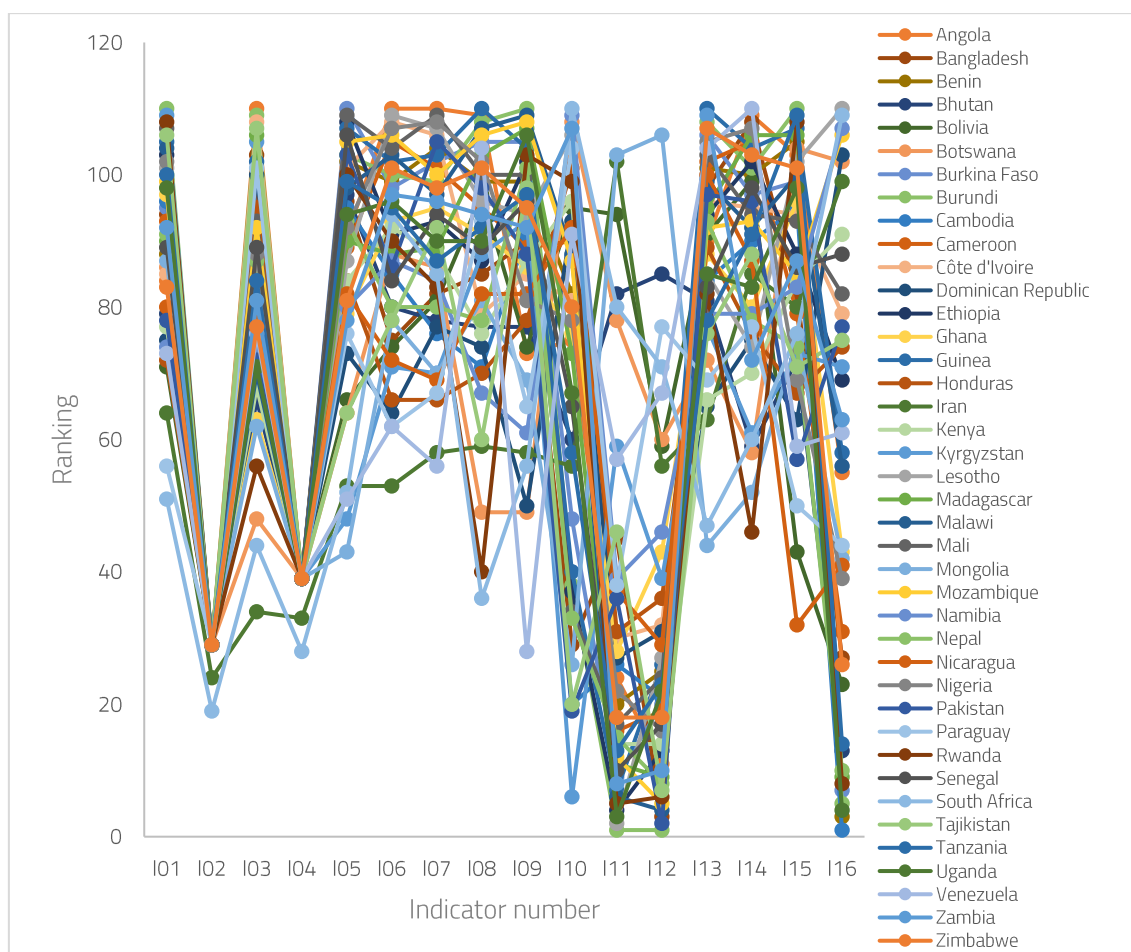


Figure 11 – Beginning WSQ rankings quality profiles.

Regression analysis

Several multivariate regression models were computed in order to better understand the relationship between OWSQ indicators in the formation of the overall score. From a Partial Least Squares (PLS) approach (Table 4), the largest absolute values found, thus having the highest impact over the overall WSQ, correspond to the Sustainability dimension (Environmental Wellbeing Results and Ecological Footprint). On the other hand, Global innovation Index, Education Index, Healthy Life Expectancy, Ease of Doing Business, and World Happiness Index have a higher negative coefficient, meaning that countries with a larger value tend to get a lower OWSQ, reflecting a good performance of the country.

Table 4 – Partial Least Squares Model Coefficients for Prediction of OWSQ.

Model Coefficients for Centered and Scaled Data		
Coefficient	OWSQ	
Intercept	0,0000	
ISO	-0,0733	
IAQ	-0,0482	
PAP	-0,0844	
UNI	-0,0746	
EDU	-0,0909	
HLE	-0,0900	
BMO	-0,0848	
GCI	-0,0917	
GDP	-0,0815	
GIN	-0,0511	
EWR	0,0699	
ECO	0,0782	
GII	-0,0971	
EDB	-0,0885	
WHI	-0,0850	
UNR	-0,0154	

(ISO - Number of ISO 9001 Certified Organizations; IAQ - Number of International Academy for Quality Members; PAP - Number of Indexed Quality Papers Published; UNI - Number of Universities in International Research Rankings; EDU - Education Index; HLE - Healthy Life Expectancy; BMO - Birth Mortality Rate; GCI - Global Competitiveness Index; GDP - Gross Domestic Product; GIN - Gini Index; EWR - Environmental Wellbeing Results; ECO - Ecological Footprint; GII - Global Innovation Index; EDB - Ease of Doing Business Results; WHI - World Happiness Index; UNR - Unemployment Rate)

A PLS Variable Importance in Projection (VIP) plot was also computed and can be seen in Figure 12. The most important indicators are Global Innovation Index, Global Competitiveness Index, Education Index, Healthy Life Expectancy, Ease of Doing Business, World Happiness Index, Birth Mortality Rate, Indexed Quality Papers Published, Gross Domestic Product, Ecological Footprint, Universities in International Research Rankings, ISO 9001 Certified Organizations, and Environmental Wellbeing Results.

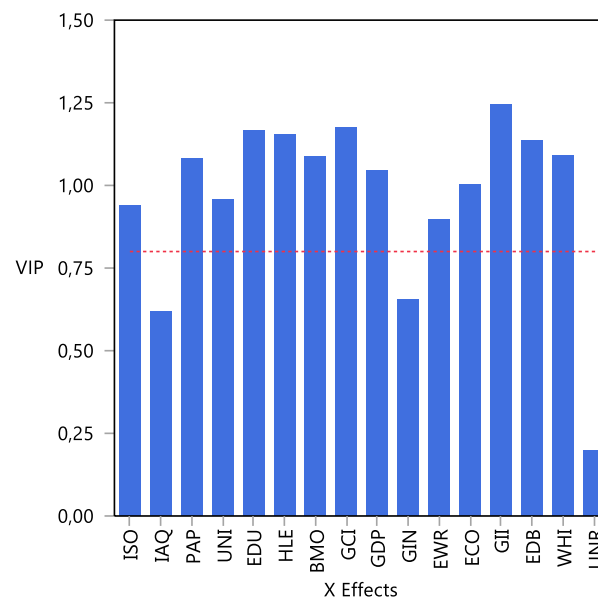


Figure 12 – Partial Least Squares Variable Importance in Projection (VIP) plot.

(ISO - Number of ISO 9001 Certified Organizations; IAQ - Number of International Academy for Quality Members; PAP - Number of Indexed Quality Papers Published; UNI - Number of Universities in International Research Rankings; EDU - Education Index; HLE - Healthy Life Expectancy; BMO - Birth Mortality Rate; GCI - Global Competitiveness Index; GDP - Gross Domestic Product; GIN - Gini Index; EWR - Environmental Wellbeing Results; ECO - Ecological Footprint; GII - Global Innovation Index; EDB - Ease of Doing Business Results; WHI - World Happiness Index; UNR - Unemployment Rate)

Furthermore, a stepwise regression (Table 5) was conducted, leading to a model containing only two regressors: the Global Innovation index, and then the Healthy Life Expectancy. Such a model is able to explain over 93% of the OWSQ variability with just two predictor variables, illustrating the strong dependence of the World State of Quality over innovation and health.

Table 5 - Stepwise Regression Model for Prediction of OWSQ.

Response OWSQ

Effect Summary

Source	LogWorth		PValue
GII	32,258		0,00000
HLE	15,328		0,00000

Summary of Fit

RSquare	0,937146
RSquare Adj	0,935971
Root Mean Square Error	4,403729
Mean of Response	52,64902
Observations (or Sum Wgts)	110

Analysis of Variance

Source	DF	Sum of Squares	Mean Square	F Ratio
Model	2	30938,416	15469,2	797,6767
Error	107	2075,033	19,4	Prob > F
C. Total	109	33013,449		<,0001 *

Parameter Estimates

Term	Estimate	Std Error	t Ratio	Prob> t
Intercept	144,61543	4,551693	31,77	<,0001 *
HLE	-0,882779	0,092202	-9,57	<,0001 *
GII	-0,967127	0,055565	-17,41	<,0001 *

This quite simple statistical model is able to come up with good estimates for the Overall World State of Quality at any given worldwide country, can be seen in Figure 13.

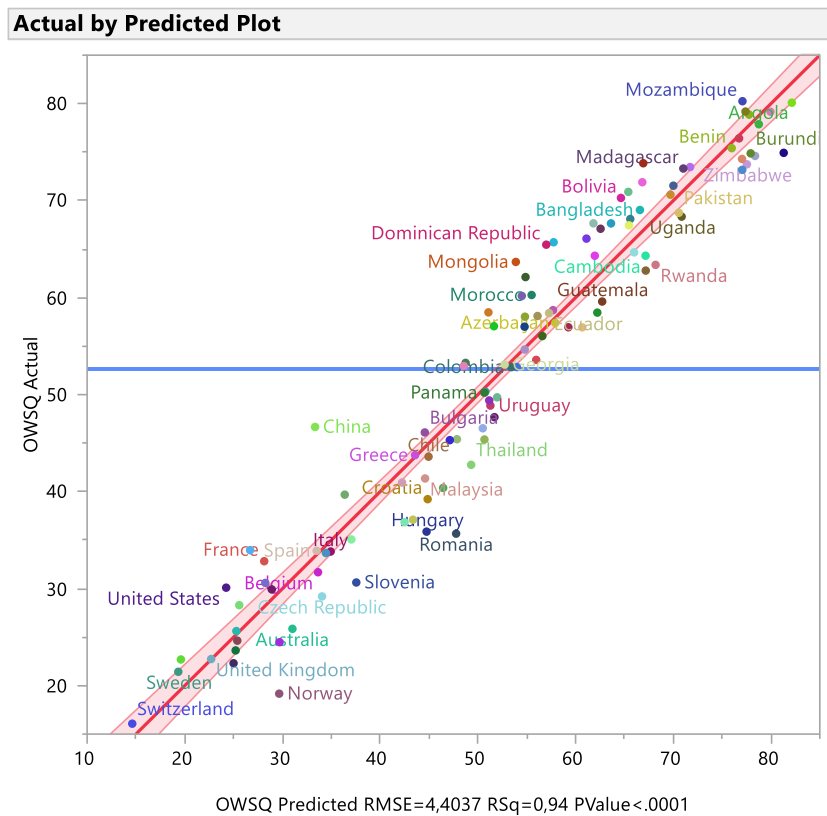


Figure 13 - Real versus predicted stepwise regression model values for OWSQ (variable selection).

COUNTRY PROFILES

This section describes each of the 110 worldwide countries for which all the WSQ indicator values could be found, through the presentation of their WSQ profiles, with values and ranking positions obtained for all of the 16 indicators considered, as well as a summary plot with the ranking positions across all of the indicators considered (country quality profile), from which one can extract strengths and weaknesses associated with each country. We also recall the category of countries to which each nation does belong, according to the computed OWSQ values.

EXAMPLE



Population (2016):

OWSQ 2017

Rank

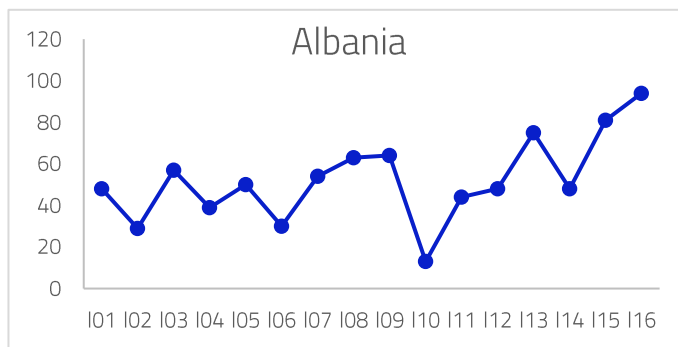
Score:

Quality group:

	Rank	Value		Rank	Value
I01. ISO 9001 Certified Organizations * ¹			I09. Gross Domestic Product * ⁵		
I02. International Academy for Quality Members * ¹			I10. Gini Index * ⁴		
I03. Indexed Quality Papers Published * ¹			I11. Environmental Wellbeing Results * ²		
I04. Universities in International Research Rankings * ¹			I12. Ecological Footprint * ⁶		
I05. Education Index * ²			I13. Global Innovation Index * ²		
I06. Healthy Life Expectancy * ³			I14. Ease of Doing Business Results * ⁷		
I07. At Birth Mortality Rate * ⁴			I15. World Happiness Index * ²		
I08. Global Competitiveness Index * ²			I16. Unemployment Rate * ⁴		

*¹ per 1,000 inhabitants; *² score; *³ age; *⁴ percentage; *⁵ US dollars; *⁶ gha pc; *⁷ distance to frontier

ALBANIA



Population (2016):2 876 101

OWSQ 2017

Rank 54

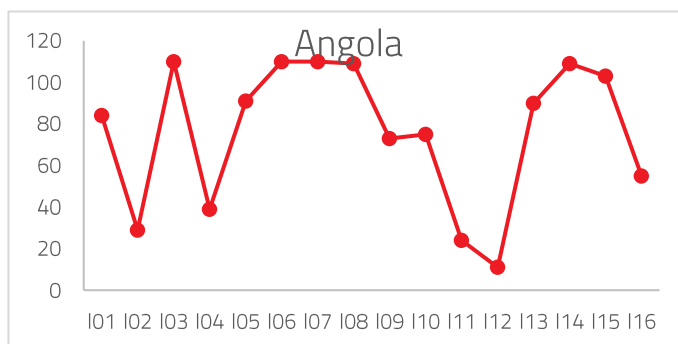
Score: 53.583

Quality group: **LAGGING**

Rank	Value	Rank	Value
I01. ISO 9001 Certified Organizations * ¹	48 0.09701	I09. Gross Domestic Product * ⁵	64 4124.98
I02. International Academy for Quality Members * ¹	29 0.0000000	I10. Gini Index * ⁴	13 28.96
I03. Indexed Quality Papers Published * ¹	57 0.00591	I11. Environmental Wellbeing Results * ²	44 5.40
I04. Universities in International Research Rankings * ¹ ...	39 0.0000000	I12. Ecological Footprint * ⁶	48 2.29
I05. Education Index * ²	50 0.715	I13. Global Innovation Index * ²	75 28.86
I06. Healthy Life Expectancy * ³	30 68.8	I14. Ease of Doing Business Results * ⁷	48 68.90
I07. At Birth Mortality Rate * ⁴	54 12.5	I15. World Happiness Index * ²	81 4.64
I08. Global Competitiveness Index * ²	63 4.06	I16. Unemployment Rate * ⁴	94 16.14

*¹ per 1,000 inhabitants; *² score; *³ age; *⁴ percentage; *⁵ US dollars; *⁶ gha pc; *⁷ distance to frontier

ANGOLA



Population (2016):28 813 463

OWSQ 2017

Rank 105

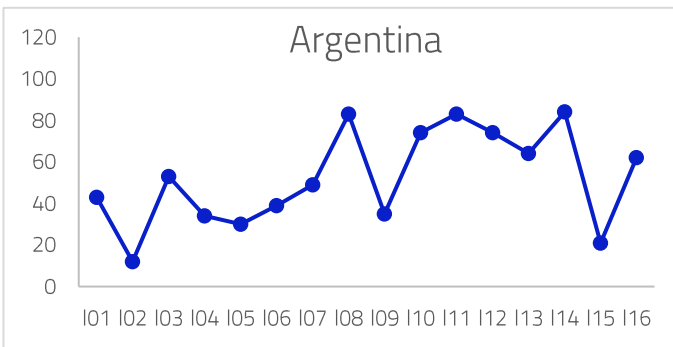
Score: 77.878

Quality group: **BEGINNING**

Rank	Value	Rank	Value
I01. ISO 9001 Certified Organizations * ¹	84 0.00722	I09. Gross Domestic Product * ⁵	73 3308.70
I02. International Academy for Quality Members * ¹	29 0.0000000	I10. Gini Index * ⁴	75 42.72
I03. Indexed Quality Papers Published * ¹	110 0.00014	I11. Environmental Wellbeing Results * ²	24 6.44
I04. Universities in International Research Rankings * ¹ ...	39 0.0000000	I12. Ecological Footprint * ⁶	11 0.98
I05. Education Index * ²	91 0.482	I13. Global Innovation Index * ²	90 26.20
I06. Healthy Life Expectancy * ³	110 45.9	I14. Ease of Doing Business Results * ⁷	109 38.41
I07. At Birth Mortality Rate * ⁴	110 96.0	I15. World Happiness Index * ²	103 3.80
I08. Global Competitiveness Index * ²	109 3.04	I16. Unemployment Rate * ⁴	55 7.07

*¹ per 1,000 inhabitants; *² score; *³ age; *⁴ percentage; *⁵ US dollars; *⁶ gha pc; *⁷ distance to frontier

ARGENTINA



Population (2016):43 847 430

OWSQ 2017

Rank 50

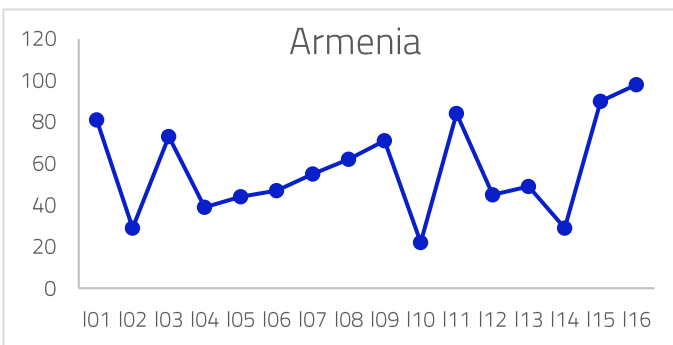
Score: 52.844

Quality group: **LAGGING**

	Rank	Value		Rank	Value
I01. ISO 9001 Certified Organizations * ¹	43	0.16220	I09. Gross Domestic Product * ⁵	35	12 440.32
I02. International Academy for Quality Members * ¹	12	0.0001140	I10. Gini Index * ⁴	74	42.67
I03. Indexed Quality Papers Published * ¹	53	0.00734	I11. Environmental Wellbeing Results * ²	83	4.09
I04. Universities in International Research Rankings * ¹ ...	34	0.0000228	I12. Ecological Footprint * ⁶	74	3.73
I05. Education Index * ²	30	0.808	I13. Global Innovation Index * ²	64	32.00
I06. Healthy Life Expectancy * ³	39	67.6	I14. Ease of Doing Business Results * ⁷	84	57.45
I07. At Birth Mortality Rate * ⁴	49	11.1	I15. World Happiness Index * ²	21	6.60
I08. Global Competitiveness Index * ²	83	3.81	I16. Unemployment Rate * ⁴	62	7.67

*¹ per 1,000 inhabitants; *² score; *³ age; *⁴ percentage; *⁵ US dollars; *⁶ gha pc; *⁷ distance to frontier

ARMENIA



Population (2016):2 924 816

OWSQ 2017

Rank 66

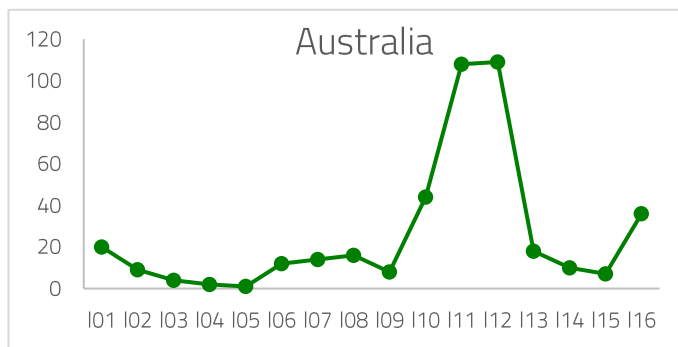
Score: 58.483

Quality group: **LAGGING**

	Rank	Value		Rank	Value
I01. ISO 9001 Certified Organizations * ¹	81	0.00923	I09. Gross Domestic Product * ⁵	71	3 614.69
I02. International Academy for Quality Members * ¹	29	0.0000000	I10. Gini Index * ⁴	22	31.48
I03. Indexed Quality Papers Published * ¹	73	0.00274	I11. Environmental Wellbeing Results * ²	84	4.04
I04. Universities in International Research Rankings * ¹ ...	39	0.0000000	I12. Ecological Footprint * ⁶	45	2.07
I05. Education Index * ²	44	0.730	I13. Global Innovation Index * ²	49	35.65
I06. Healthy Life Expectancy * ³	47	66.9	I14. Ease of Doing Business Results * ⁷	29	73.63
I07. At Birth Mortality Rate * ⁴	55	12.6	I15. World Happiness Index * ²	90	4.38
I08. Global Competitiveness Index * ²	62	4.07	I16. Unemployment Rate * ⁴	98	18.66

*¹ per 1,000 inhabitants; *² score; *³ age; *⁴ percentage; *⁵ US dollars; *⁶ gha pc; *⁷ distance to frontier

AUSTRALIA



Population (2016):24 127 159

OWSQ 2017

Rank 11

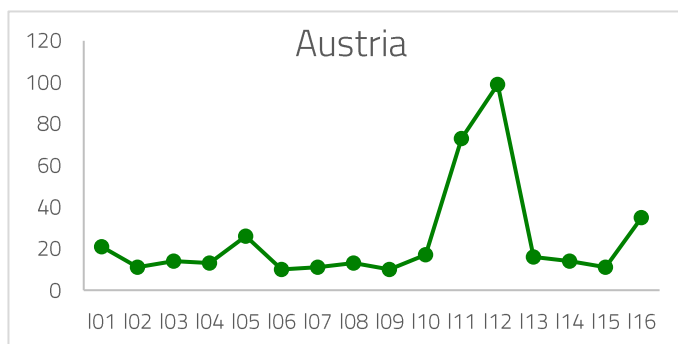
Score: 25.855

Quality group: **LEADING**

	Rank	Value		Rank	Value
I01. ISO 9001 Certified Organizations * ¹	20	0.56517	I09. Gross Domestic Product * ⁵	8	49 927.82
I02. International Academy for Quality Members * ¹	9	0.0001658	I10. Gini Index * ⁴	44	34.94
I03. Indexed Quality Papers Published * ¹	4	0.18469	I11. Environmental Wellbeing Results * ²	108	2.43
I04. Universities in International Research Rankings * ¹	2	0.0010776	I12. Ecological Footprint * ⁶	109	8.80
I05. Education Index * ²	1	0.939	I13. Global Innovation Index * ²	18	51.83
I06. Healthy Life Expectancy * ³	12	71.9	I14. Ease of Doing Business Results * ⁷	10	80.26
I07. At Birth Mortality Rate * ⁴	14	3.0	I15. World Happiness Index * ²	7	7.28
I08. Global Competitiveness Index * ²	16	5.19	I16. Unemployment Rate * ⁴	36	5.77

*¹ per 1,000 inhabitants; *² score; *³ age; *⁴ percentage; *⁵ US dollars; *⁶ gha pc; *⁷ distance to frontier

AUSTRIA



Population (2016):8 747 358

OWSQ 2017

Rank 8

Score: 24.476

Quality group: **LEADING**

	Rank	Value		Rank	Value
I01. ISO 9001 Certified Organizations * ¹	21	0.51101	I09. Gross Domestic Product * ⁵	10	44 676.35
I02. International Academy for Quality Members * ¹	11	0.0001143	I10. Gini Index * ⁴	17	30.48
I03. Indexed Quality Papers Published * ¹	14	0.14244	I11. Environmental Wellbeing Results * ²	73	4.54
I04. Universities in International Research Rankings * ¹	13	0.0005716	I12. Ecological Footprint * ⁶	99	6.11
I05. Education Index * ²	26	0.820	I13. Global Innovation Index * ²	16	53.10
I06. Healthy Life Expectancy * ³	10	72.0	I14. Ease of Doing Business Results * ⁷	14	78.92
I07. At Birth Mortality Rate * ⁴	11	2.9	I15. World Happiness Index * ²	11	7.01
I08. Global Competitiveness Index * ²	13	5.22	I16. Unemployment Rate * ⁴	35	5.76

*¹ per 1,000 inhabitants; *² score; *³ age; *⁴ percentage; *⁵ US dollars; *⁶ gha pc; *⁷ distance to frontier

AZERBAIJAN



Population (2016):9 762 274

OWSQ 2017

Rank 61

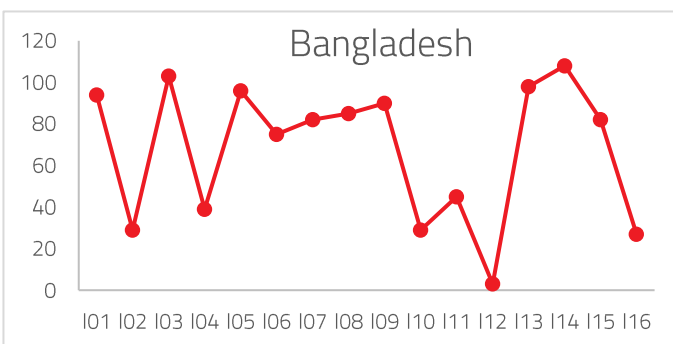
Score: 57.392

Quality group: **LAGGING**

Rank	Value	Rank	Value
I01. ISO 9001 Certified Organizations * ¹	67 0.02489	I09. Gross Domestic Product * ⁵	66 3 876.94
I02. International Academy for Quality Members * ¹	29 0.0000000	I10. Gini Index * ⁴	24 31.79
I03. Indexed Quality Papers Published * ¹	104 0.00072	I11. Environmental Wellbeing Results * ²	87 3.94
I04. Universities in International Research Rankings * ¹ ...	39 0.0000000	I12. Ecological Footprint * ⁶	49 2.30
I05. Education Index * ²	47 0.723	I13. Global Innovation Index * ²	67 30.58
I06. Healthy Life Expectancy * ³	68 64.7	I14. Ease of Doing Business Results * ⁷	53 67.99
I07. At Birth Mortality Rate * ⁴	79 27.9	I15. World Happiness Index * ²	62 5.23
I08. Global Competitiveness Index * ²	28 4.55	I16. Unemployment Rate * ⁴	40 5.92

*¹ per 1,000 inhabitants; *² score; *³ age; *⁴ percentage; *⁵ US dollars; *⁶ gha pc; *⁷ distance to frontier

BANGLADESH



Population (2016): 162 951 560

OWSQ 2017

Rank 88

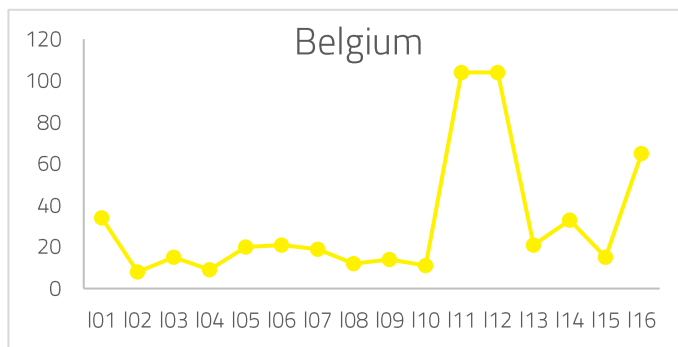
Score: 69.039

Quality group: **BEGINNING**

Rank	Value	Rank	Value
I01. ISO 9001 Certified Organizations * ¹	94 0.00278	I09. Gross Domestic Product * ⁵	90 1 358.78
I02. International Academy for Quality Members * ¹	29 0.0000000	I10. Gini Index * ⁴	29 32.13
I03. Indexed Quality Papers Published * ¹	103 0.00077	I11. Environmental Wellbeing Results * ²	45 5.36
I04. Universities in International Research Rankings * ¹ ...	39 0.0000000	I12. Ecological Footprint * ⁶	3 0.75
I05. Education Index * ²	96 0.457	I13. Global Innovation Index * ²	98 23.72
I06. Healthy Life Expectancy * ³	75 62.4	I14. Ease of Doing Business Results * ⁷	108 40.84
I07. At Birth Mortality Rate * ⁴	82 30.7	I15. World Happiness Index * ²	82 4.61
I08. Global Competitiveness Index * ²	85 3.80	I16. Unemployment Rate * ⁴	27 4.73

*¹ per 1,000 inhabitants; *² score; *³ age; *⁴ percentage; *⁵ US dollars; *⁶ gha pc; *⁷ distance to frontier

BELGIUM



Population (2016): 11 348 159

OWSQ 2017

Rank 18

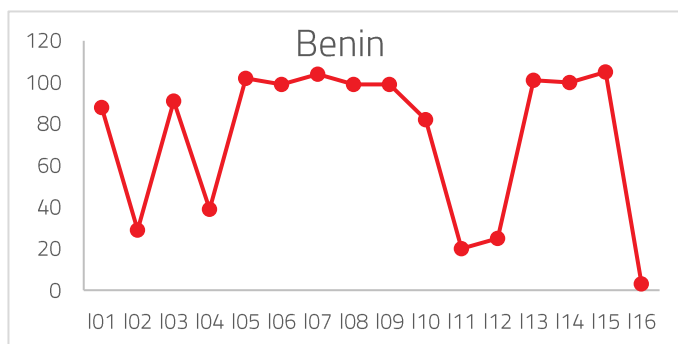
Score: 31.687

Quality group: FOLLOWER

	Rank	Value		Rank	Value
I01. ISO 9001 Certified Organizations * ¹	34	0.31388	I09. Gross Domestic Product * ⁵	14	41 236.27
I02. International Academy for Quality Members * ¹	8	0.0001762	I10. Gini Index * ⁴	11	27.59
I03. Indexed Quality Papers Published * ¹	15	0.13817	I11. Environmental Wellbeing Results * ²	104	2.66
I04. Universities in International Research Rankings * ¹	9	0.0006168	I12. Ecological Footprint * ⁶	104	6.89
I05. Education Index * ²	20	0.841	I13. Global Innovation Index * ²	21	49.85
I06. Healthy Life Expectancy * ³	21	71.1	I14. Ease of Doing Business Results * ⁷	33	73.00
I07. At Birth Mortality Rate * ⁴	19	3.3	I15. World Happiness Index * ²	15	6.89
I08. Global Competitiveness Index * ²	12	5.25	I16. Unemployment Rate * ⁴	65	7.85

*¹ per 1,000 inhabitants; *² score; *³ age; *⁴ percentage; *⁵ US dollars; *⁶ gha pc; *⁷ distance to frontier

BENIN



Population (2016): 10 872 298

OWSQ 2017

Rank 103

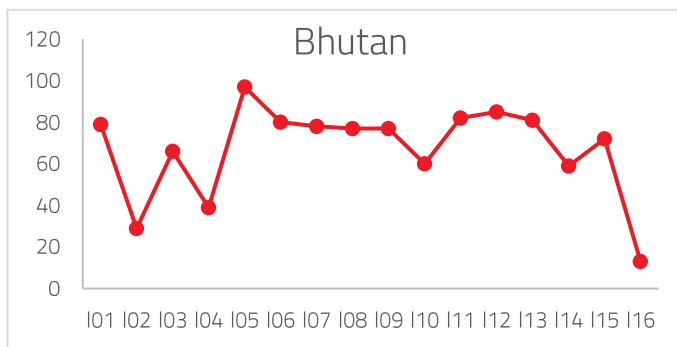
Score: 75.415

Quality group: BEGINNING

	Rank	Value		Rank	Value
I01. ISO 9001 Certified Organizations * ¹	88	0.00460	I09. Gross Domestic Product * ⁵	99	789.44
I02. International Academy for Quality Members * ¹	29	0.0000000	I10. Gini Index * ⁴	82	43.44
I03. Indexed Quality Papers Published * ¹	91	0.00120	I11. Environmental Wellbeing Results * ²	20	6.76
I04. Universities in International Research Rankings * ¹	39	0.0000000	I12. Ecological Footprint * ⁶	25	1.31
I05. Education Index * ²	102	0.414	I13. Global Innovation Index * ²	101	23.04
I06. Healthy Life Expectancy * ³	99	52.5	I14. Ease of Doing Business Results * ⁷	100	48.52
I07. At Birth Mortality Rate * ⁴	104	64.2	I15. World Happiness Index * ²	105	3.66
I08. Global Competitiveness Index * ²	99	3.47	I16. Unemployment Rate * ⁴	3	0.93

*¹ per 1,000 inhabitants; *² score; *³ age; *⁴ percentage; *⁵ US dollars; *⁶ gha pc; *⁷ distance to frontier

BHUTAN



Population (2016): 797 765

OWSQ 2017

Rank 83

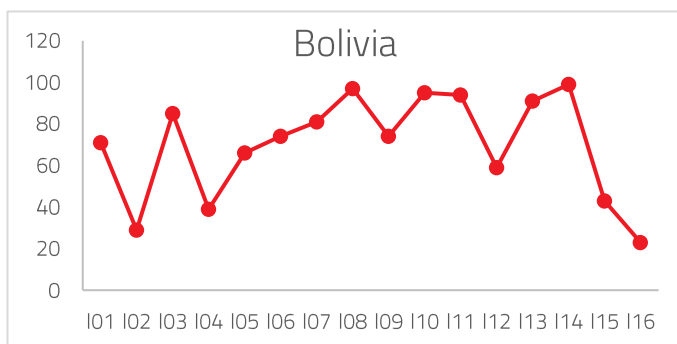
Score: 67.655

Quality group: **BEGINNING**

	Rank	Value		Rank	Value
I01. ISO 9001 Certified Organizations * ¹	79	0.01003	I09. Gross Domestic Product * ⁵	77	2 773.55
I02. International Academy for Quality Members * ¹	29	0.0000000	I10. Gini Index * ⁴	60	38.81
I03. Indexed Quality Papers Published * ¹	66	0.00376	I11. Environmental Wellbeing Results * ²	82	4.23
I04. Universities in International Research Rankings * ¹ ...	39	0.0000000	I12. Ecological Footprint * ⁶	85	4.61
I05. Education Index * ²	97	0.452	I13. Global Innovation Index * ²	81	27.88
I06. Healthy Life Expectancy * ³	80	61.2	I14. Ease of Doing Business Results * ⁷	59	65.37
I07. At Birth Mortality Rate * ⁴	78	27.2	I15. World Happiness Index * ²	72	5.01
I08. Global Competitiveness Index * ²	77	3.87	I16. Unemployment Rate * ⁴	13	3.12

*¹ per 1,000 inhabitants; *² score; *³ age; *⁴ percentage; *⁵ US dollars; *⁶ gha pc; *⁷ distance to frontier

BOLIVIA



Population (2016): 10 887 882

OWSQ 2017

Rank 89

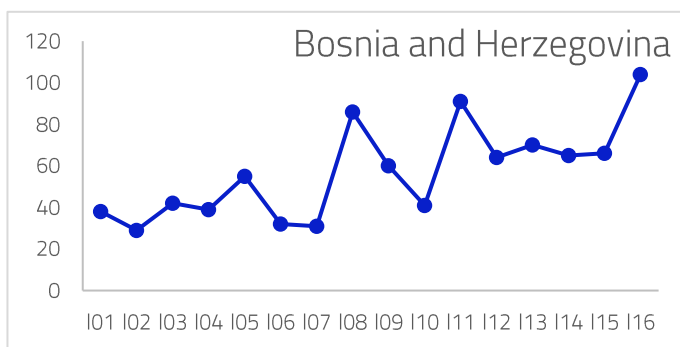
Score: 70.280

Quality group: **BEGINNING**

	Rank	Value		Rank	Value
I01. ISO 9001 Certified Organizations * ¹	71	0.02122	I09. Gross Domestic Product * ⁵	74	3 104.96
I02. International Academy for Quality Members * ¹	29	0.0000000	I10. Gini Index * ⁴	95	49.4
I03. Indexed Quality Papers Published * ¹	85	0.00156	I11. Environmental Wellbeing Results * ²	94	3.61
I04. Universities in International Research Rankings * ¹ ...	39	0.0000000	I12. Ecological Footprint * ⁶	59	3.06
I05. Education Index * ²	66	0.656	I13. Global Innovation Index * ²	91	25.64
I06. Healthy Life Expectancy * ³	74	62.5	I14. Ease of Doing Business Results * ⁷	99	49.85
I07. At Birth Mortality Rate * ⁴	81	30.6	I15. World Happiness Index * ²	43	5.82
I08. Global Competitiveness Index * ²	97	3.54	I16. Unemployment Rate * ⁴	23	4.54

*¹ per 1,000 inhabitants; *² score; *³ age; *⁴ percentage; *⁵ US dollars; *⁶ gha pc; *⁷ distance to frontier

BOSNIA AND HERZEGOVINA



Population (2016):3 516 816

OWSQ 2017

Rank 62

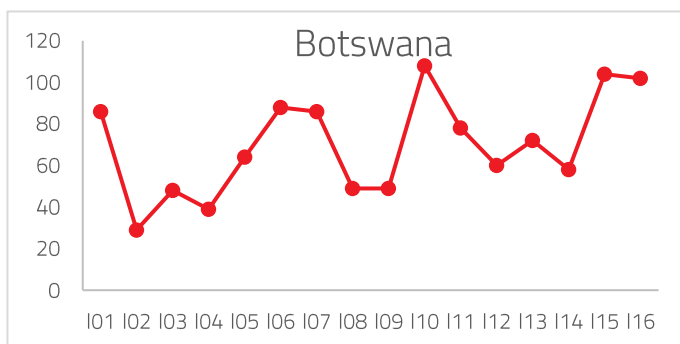
Score: 58.036

Quality group: **LAGGING**

	Rank	Value		Rank	Value
I01. ISO 9001 Certified Organizations * ¹	38	0.22464	I09. Gross Domestic Product * ⁵	60	4 808.41
I02. International Academy for Quality Members * ¹	29	0.0000000	I10. Gini Index * ⁴	41	33.83
I03. Indexed Quality Papers Published * ¹	42	0.01735	I11. Environmental Wellbeing Results * ²	91	3.79
I04. Universities in International Research Rankings * ¹ ...	39	0.0000000	I12. Ecological Footprint * ⁶	64	3.21
I05. Education Index * ²	55	0.694	I13. Global Innovation Index * ²	70	30.23
I06. Healthy Life Expectancy * ³	32	68.6	I14. Ease of Doing Business Results * ⁷	65	63.87
I07. At Birth Mortality Rate * ⁴	31	5.1	I15. World Happiness Index * ²	66	5.18
I08. Global Competitiveness Index * ²	86	3.80	I16. Unemployment Rate * ⁴	104	22.27

*¹ per 1,000 inhabitants; *² score; *³ age; *⁴ percentage; *⁵ US dollars; *⁶ gha pc; *⁷ distance to frontier

BOTSWANA



Population (2016):2 250 260

OWSQ 2017

Rank 91

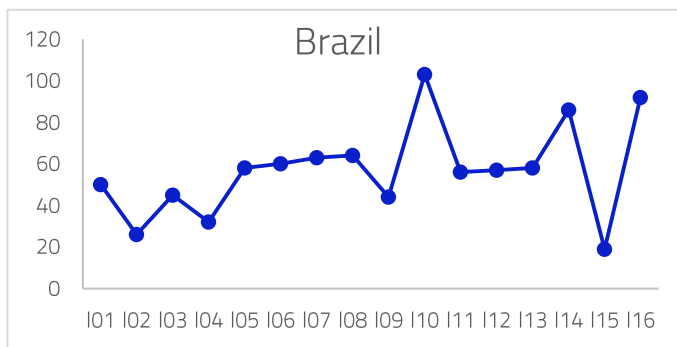
Score: 70.906

Quality group: **BEGINNING**

	Rank	Value		Rank	Value
I01. ISO 9001 Certified Organizations * ¹	86	0.00667	I09. Gross Domestic Product * ⁵	49	6 924.15
I02. International Academy for Quality Members * ¹	29	0.0000000	I10. Gini Index * ⁴	108	60.46
I03. Indexed Quality Papers Published * ¹	48	0.01155	I11. Environmental Wellbeing Results * ²	78	4.44
I04. Universities in International Research Rankings * ¹ ...	39	0.0000000	I12. Ecological Footprint * ⁶	60	3.07
I05. Education Index * ²	64	0.658	I13. Global Innovation Index * ²	72	29.97
I06. Healthy Life Expectancy * ³	88	56.9	I14. Ease of Doing Business Results * ⁷	58	65.55
I07. At Birth Mortality Rate * ⁴	86	34.8	I15. World Happiness Index * ²	104	3.77
I08. Global Competitiveness Index * ²	49	4.29	I16. Unemployment Rate * ⁴	102	21.38

*¹ per 1,000 inhabitants; *² score; *³ age; *⁴ percentage; *⁵ US dollars; *⁶ gha pc; *⁷ distance to frontier

BRAZIL



Population (2016): 207 652 865

OWSQ 2017

Rank 59

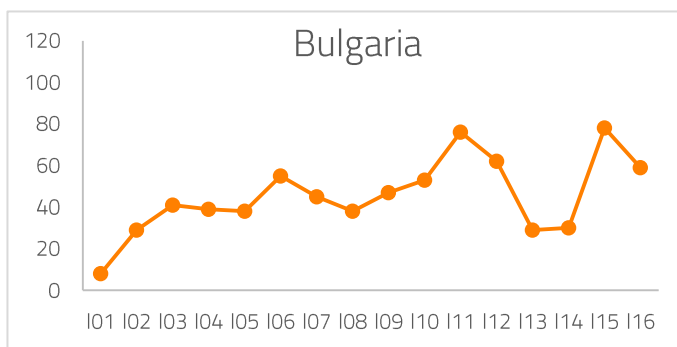
Score: 57.003

Quality group: **LAGGING**

	Rank	Value		Rank	Value
I01. ISO 9001 Certified Organizations * ¹	50	0.08441	I09. Gross Domestic Product * ⁵	44	8 649.95
I02. International Academy for Quality Members * ¹	26	0.0000096	I10. Gini Index * ⁴	103	51.48
I03. Indexed Quality Papers Published * ¹	45	0.01366	I11. Environmental Wellbeing Results * ²	56	5.13
I04. Universities in International Research Rankings * ¹ ...	32	0.0000289	I12. Ecological Footprint * ⁶	57	3.02
I05. Education Index * ²	58	0.681	I13. Global Innovation Index * ²	58	33.10
I06. Healthy Life Expectancy * ³	60	65.5	I14. Ease of Doing Business Results * ⁷	86	56.53
I07. At Birth Mortality Rate * ⁴	63	14.6	I15. World Happiness Index * ²	19	6.64
I08. Global Competitiveness Index * ²	64	4.06	I16. Unemployment Rate * ⁴	92	13.98

*¹ per 1,000 inhabitants; *² score; *³ age; *⁴ percentage; *⁵ US dollars; *⁶ gha pc; *⁷ distance to frontier

BULGARIA



Population (2016): 7 127 822

OWSQ 2017

Rank 40

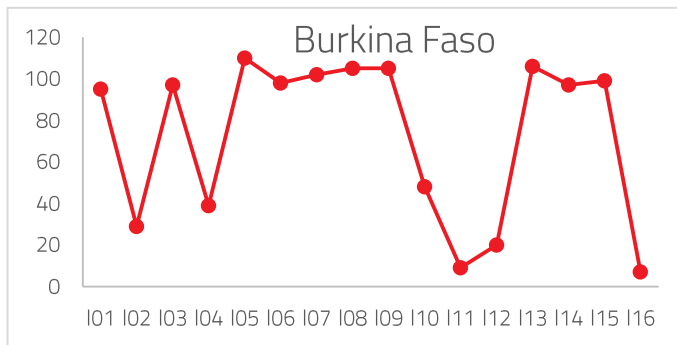
Score: 46.101

Quality group: **MODERATE**

	Rank	Value		Rank	Value
I01. ISO 9001 Certified Organizations * ¹	8	0.76335	I09. Gross Domestic Product * ⁵	47	7 469.03
I02. International Academy for Quality Members * ¹	29	0.0000000	I10. Gini Index * ⁴	53	36.1
I03. Indexed Quality Papers Published * ¹	41	0.01824	I11. Environmental Wellbeing Results * ²	76	4.47
I04. Universities in International Research Rankings * ¹ ...	39	0.0000000	I12. Ecological Footprint * ⁶	62	3.13
I05. Education Index * ²	38	0.778	I13. Global Innovation Index * ²	29	42.84
I06. Healthy Life Expectancy * ³	55	66.4	I14. Ease of Doing Business Results * ⁷	30	73.51
I07. At Birth Mortality Rate * ⁴	45	9.3	I15. World Happiness Index * ²	78	4.71
I08. Global Competitiveness Index * ²	38	4.44	I16. Unemployment Rate * ⁴	59	7.49

*¹ per 1,000 inhabitants; *² score; *³ age; *⁴ percentage; *⁵ US dollars; *⁶ gha pc; *⁷ distance to frontier

BURKINA FASO



Population (2016): 18 646 433

OWSQ 2017

Rank 99

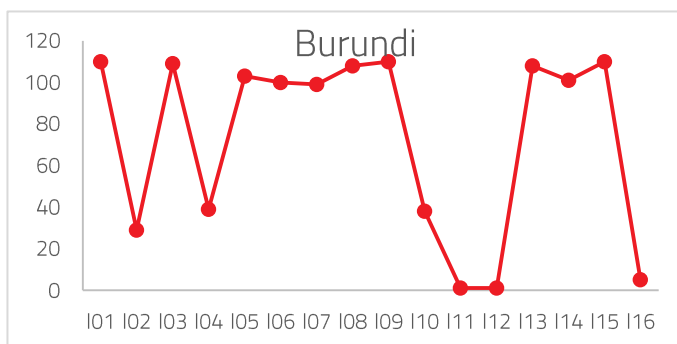
Score: 74.303

Quality group: **BEGINNING**

	Rank	Value		Rank	Value
I01. ISO 9001 Certified Organizations * ¹	95	0.00268	I09. Gross Domestic Product * ⁵	105	627.10
I02. International Academy for Quality Members * ¹	29	0.0000000	I10. Gini Index * ⁴	48	35.3
I03. Indexed Quality Papers Published * ¹	97	0.00097	I11. Environmental Wellbeing Results * ²	9	7.65
I04. Universities in International Research Rankings * ¹	39	0.0000000	I12. Ecological Footprint * ⁶	20	1.19
I05. Education Index * ²	110	0.262	I13. Global Innovation Index * ²	106	21.86
I06. Healthy Life Expectancy * ³	98	52.6	I14. Ease of Doing Business Results * ⁷	97	51.33
I07. At Birth Mortality Rate * ⁴	102	60.9	I15. World Happiness Index * ²	99	4.03
I08. Global Competitiveness Index * ²	105	3.21	I16. Unemployment Rate * ⁴	7	2.12

*¹ per 1,000 inhabitants; *² score; *³ age; *⁴ percentage; *⁵ US dollars; *⁶ gha pc; *⁷ distance to frontier

BURUNDI



Population (2016): 10 524 117

OWSQ 2017

Rank 101

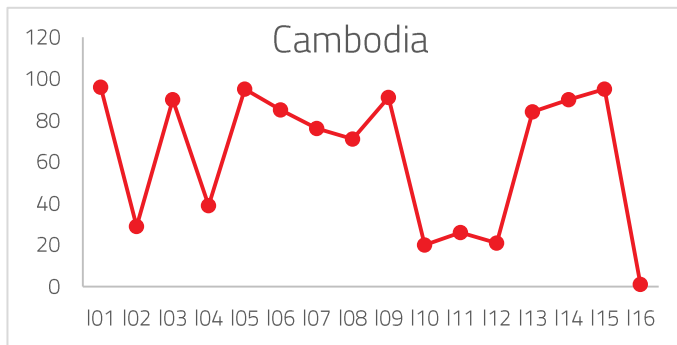
Score: 74.875

Quality group: **BEGINNING**

	Rank	Value		Rank	Value
I01. ISO 9001 Certified Organizations * ¹	110	0.00000	I09. Gross Domestic Product * ⁵	110	285.73
I02. International Academy for Quality Members * ¹	29	0.0000000	I10. Gini Index * ⁴	38	33.36
I03. Indexed Quality Papers Published * ¹	109	0.00019	I11. Environmental Wellbeing Results * ²	1	8.13
I04. Universities in International Research Rankings * ¹	39	0.0000000	I12. Ecological Footprint * ⁶	1	0.63
I05. Education Index * ²	103	0.395	I13. Global Innovation Index * ²	108	21.31
I06. Healthy Life Expectancy * ³	100	52.2	I14. Ease of Doing Business Results * ⁷	101	47.37
I07. At Birth Mortality Rate * ⁴	99	54.1	I15. World Happiness Index * ²	110	2.90
I08. Global Competitiveness Index * ²	108	3.06	I16. Unemployment Rate * ⁴	5	1.90

*¹ per 1,000 inhabitants; *² score; *³ age; *⁴ percentage; *⁵ US dollars; *⁶ gha pc; *⁷ distance to frontier

CAMBODIA



Population (2016): 15 762 370

OWSQ 2017

Rank 76

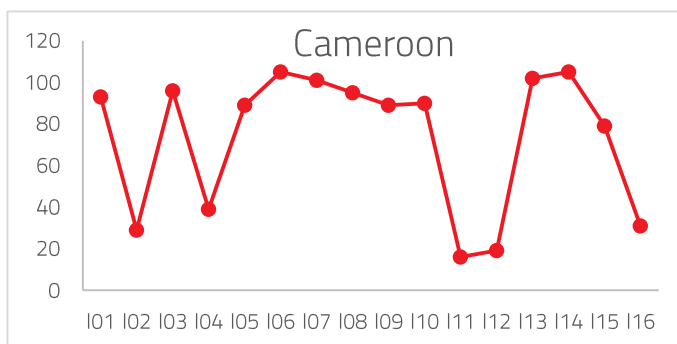
Score: 64.325

Quality group: **BEGINNING**

	Rank	Value		Rank	Value
I01. ISO 9001 Certified Organizations * ¹	96	0.00254	I09. Gross Domestic Product * ⁵	91	1 269.91
I02. International Academy for Quality Members * ¹	29	0.0000000	I10. Gini Index * ⁴	20	30.76
I03. Indexed Quality Papers Published * ¹	90	0.00121	I11. Environmental Wellbeing Results * ²	26	6.35
I04. Universities in International Research Rankings * ¹	39	0.0000000	I12. Ecological Footprint * ⁶	21	1.21
I05. Education Index * ²	95	0.459	I13. Global Innovation Index * ²	84	27.5
I06. Healthy Life Expectancy * ³	85	58.1	I14. Ease of Doing Business Results * ⁷	90	54.79
I07. At Birth Mortality Rate * ⁴	76	24.6	I15. World Happiness Index * ²	95	4.17
I08. Global Competitiveness Index * ²	71	3.98	I16. Unemployment Rate * ⁴	1	0.21

*¹ per 1,000 inhabitants; *² score; *³ age; *⁴ percentage; *⁵ US dollars; *⁶ gha pc; *⁷ distance to frontier

CAMEROON



Population (2016): 23 439 189

OWSQ 2017

Rank 100

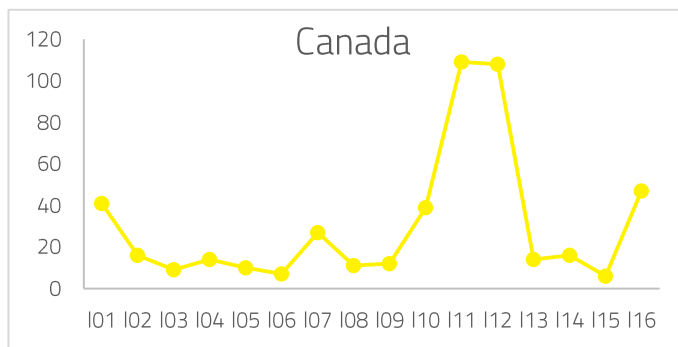
Score: 74.611

Quality group: **BEGINNING**

	Rank	Value		Rank	Value
I01. ISO 9001 Certified Organizations * ¹	93	0.00294	I09. Gross Domestic Product * ⁵	89	1 374.51
I02. International Academy for Quality Members * ¹	29	0.0000000	I10. Gini Index * ⁴	90	46.54
I03. Indexed Quality Papers Published * ¹	96	0.00098	I11. Environmental Wellbeing Results * ²	16	7.15
I04. Universities in International Research Rankings * ¹	39	0.0000000	I12. Ecological Footprint * ⁶	19	1.16
I05. Education Index * ²	89	0.493	I13. Global Innovation Index * ²	102	22.58
I06. Healthy Life Expectancy * ³	105	50.3	I14. Ease of Doing Business Results * ⁷	105	45.27
I07. At Birth Mortality Rate * ⁴	101	57.1	I15. World Happiness Index * ²	79	4.70
I08. Global Competitiveness Index * ²	95	3.58	I16. Unemployment Rate * ⁴	31	5.33

*¹ per 1,000 inhabitants; *² score; *³ age; *⁴ percentage; *⁵ US dollars; *⁶ gha pc; *⁷ distance to frontier

CANADA



Population (2016):36 286 425

OWSQ 2017

Rank 14

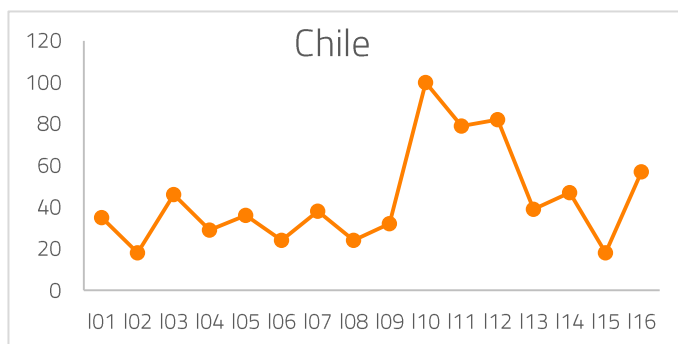
Score: 29.916

Quality group: **FOLLOWER**

	Rank	Value		Rank	Value
I01. ISO 9001 Certified Organizations * ¹	41	0.17684	I09. Gross Domestic Product * ⁵	12	42 157.93
I02. International Academy for Quality Members * ¹	16	0.0000827	I10. Gini Index * ⁴	39	33.68
I03. Indexed Quality Papers Published * ¹	9	0.17174	I11. Environmental Wellbeing Results * ²	109	2.42
I04. Universities in International Research Rankings * ¹ ...	14	0.0005236	I12. Ecological Footprint * ⁶	108	8.76
I05. Education Index * ²	10	0.890	I13. Global Innovation Index * ²	14	53.65
I06. Healthy Life Expectancy * ³	7	72.3	I14. Ease of Doing Business Results * ⁷	16	78.57
I07. At Birth Mortality Rate * ⁴	27	4.3	I15. World Happiness Index * ²	6	7.32
I08. Global Competitiveness Index * ²	11	5.27	I16. Unemployment Rate * ⁴	47	6.44

*¹ per 1,000 inhabitants; *² score; *³ age; *⁴ percentage; *⁵ US dollars; *⁶ gha pc; *⁷ distance to frontier

CHILE



Population (2016):17 909 754

OWSQ 2017

Rank 35

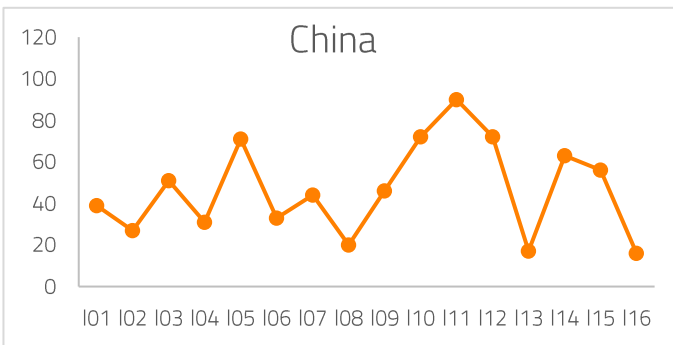
Score: 43.602

Quality group: **MODERATE**

	Rank	Value		Rank	Value
I01. ISO 9001 Certified Organizations * ¹	35	0.29498	I09. Gross Domestic Product * ⁵	32	13 792.93
I02. International Academy for Quality Members * ¹	18	0.000558	I10. Gini Index * ⁴	100	50.45
I03. Indexed Quality Papers Published * ¹	46	0.01290	I11. Environmental Wellbeing Results * ²	79	4.31
I04. Universities in International Research Rankings * ¹ ...	29	0.0000558	I12. Ecological Footprint * ⁶	82	4.35
I05. Education Index * ²	36	0.784	I13. Global Innovation Index * ²	39	38.70
I06. Healthy Life Expectancy * ³	24	70.5	I14. Ease of Doing Business Results * ⁷	47	69.56
I07. At Birth Mortality Rate * ⁴	38	7.0	I15. World Happiness Index * ²	18	6.65
I08. Global Competitiveness Index * ²	24	4.64	I16. Unemployment Rate * ⁴	57	7.30

*¹ per 1,000 inhabitants; *² score; *³ age; *⁴ percentage; *⁵ US dollars; *⁶ gha pc; *⁷ distance to frontier

CHINA



Population (2016): 1 378 665 000

OWSQ 2017

Rank 42

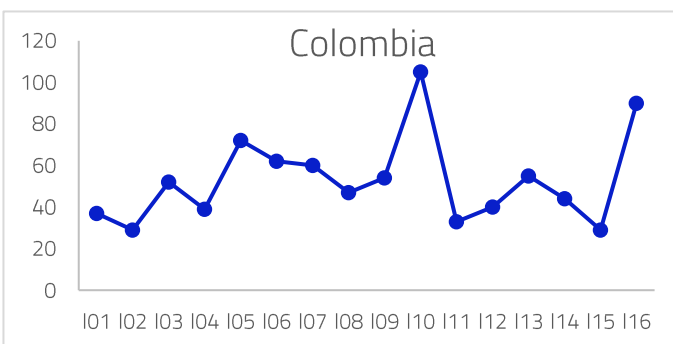
Score: 46.669

Quality group: MODERATE

	Rank	Value		Rank	Value
I01. ISO 9001 Certified Organizations * ¹	39	0.21220	I09. Gross Domestic Product * ⁵	46	8 123.18
I02. International Academy for Quality Members * ¹	27	0.0000058	I10. Gini Index * ⁴	72	42.16
I03. Indexed Quality Papers Published * ¹	51	0.00847	I11. Environmental Wellbeing Results * ²	90	3.82
I04. Universities in International Research Rankings * ¹	31	0.0000297	I12. Ecological Footprint * ⁶	72	3.59
I05. Education Index * ²	71	0.631	I13. Global Innovation Index * ²	17	52.54
I06. Healthy Life Expectancy * ³	33	68.5	I14. Ease of Doing Business Results * ⁷	63	64.28
I07. At Birth Mortality Rate * ⁴	44	9.2	I15. World Happiness Index * ²	56	5.27
I08. Global Competitiveness Index * ²	20	4.95	I16. Unemployment Rate * ⁴	16	3.72

*¹ per 1,000 inhabitants; *² score; *³ age; *⁴ percentage; *⁵ US dollars; *⁶ gha pc; *⁷ distance to frontier

COLOMBIA



Population (2016): 48 653 419

OWSQ 2017

Rank 49

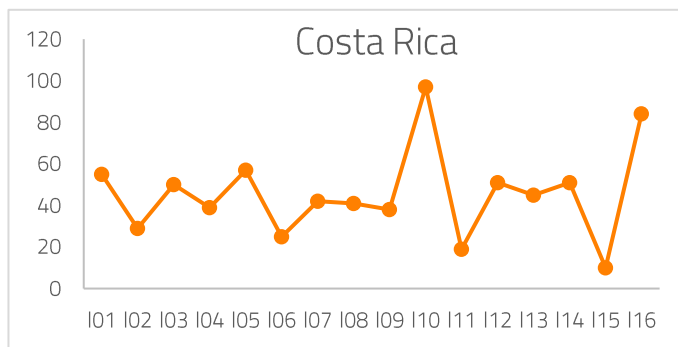
Score: 52.836

Quality group: LAGGING

	Rank	Value		Rank	Value
I01. ISO 9001 Certified Organizations * ¹	37	0.25832	I09. Gross Domestic Product * ⁵	54	5 805.61
I02. International Academy for Quality Members * ¹	29	0.0000000	I10. Gini Index * ⁴	105	53.5
I03. Indexed Quality Papers Published * ¹	52	0.00754	I11. Environmental Wellbeing Results * ²	33	5.95
I04. Universities in International Research Rankings * ¹	39	0.0000000	I12. Ecological Footprint * ⁶	40	1.89
I05. Education Index * ²	72	0.630	I13. Global Innovation Index * ²	55	34.78
I06. Healthy Life Expectancy * ³	62	65.2	I14. Ease of Doing Business Results * ⁷	44	70.92
I07. At Birth Mortality Rate * ⁴	60	13.6	I15. World Happiness Index * ²	29	6.36
I08. Global Competitiveness Index * ²	47	4.30	I16. Unemployment Rate * ⁴	90	13.06

*¹ per 1,000 inhabitants; *² score; *³ age; *⁴ percentage; *⁵ US dollars; *⁶ gha pc; *⁷ distance to frontier

COSTA RICA



Population (2016):4 857 274

OWSQ 2017

Rank 37

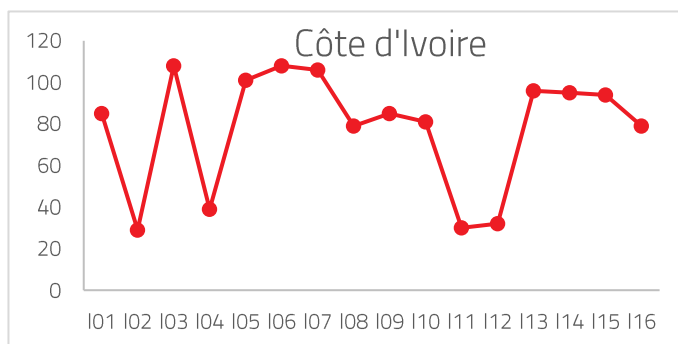
Score: 45.307

Quality group: MODERATE

	Rank	Value		Rank	Value
I01. ISO 9001 Certified Organizations * ¹	55	0.05785	I09. Gross Domestic Product * ⁵	38	11 824.64
I02. International Academy for Quality Members * ¹	29	0.0000000	I10. Gini Index * ⁴	97	48.53
I03. Indexed Quality Papers Published * ¹	50	0.00865	I11. Environmental Wellbeing Results * ²	19	6.97
I04. Universities in International Research Rankings * ¹	39	0.0000000	I12. Ecological Footprint * ⁶	51	2.48
I05. Education Index * ²	57	0.684	I13. Global Innovation Index * ²	45	37.09
I06. Healthy Life Expectancy * ³	25	69.8	I14. Ease of Doing Business Results * ⁷	51	68.50
I07. At Birth Mortality Rate * ⁴	42	8.5	I15. World Happiness Index * ²	10	7.08
I08. Global Competitiveness Index * ²	41	4.41	I16. Unemployment Rate * ⁴	84	11.51

*¹ per 1,000 inhabitants; *² score; *³ age; *⁴ percentage; *⁵ US dollars; *⁶ gha pc; *⁷ distance to frontier

CÔTE D'IVOIRE



Population (2016):23 695 919

OWSQ 2017

Rank 107

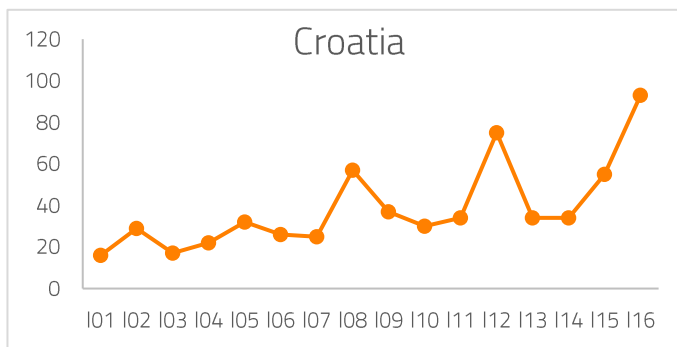
Score: 79.170

Quality group: BEGINNING

	Rank	Value		Rank	Value
I01. ISO 9001 Certified Organizations * ¹	85	0.00684	I09. Gross Domestic Product * ⁵	85	1 534.97
I02. International Academy for Quality Members * ¹	29	0.0000000	I10. Gini Index * ⁴	81	43.18
I03. Indexed Quality Papers Published * ¹	108	0.00021	I11. Environmental Wellbeing Results * ²	30	6.09
I04. Universities in International Research Rankings * ¹	39	0.0000000	I12. Ecological Footprint * ⁶	32	1.63
I05. Education Index * ²	101	0.415	I13. Global Innovation Index * ²	96	23.96
I06. Healthy Life Expectancy * ³	108	47.0	I14. Ease of Doing Business Results * ⁷	95	52.31
I07. At Birth Mortality Rate * ⁴	106	66.6	I15. World Happiness Index * ²	94	4.18
I08. Global Competitiveness Index * ²	79	3.86	I16. Unemployment Rate * ⁴	79	11.02

*¹ per 1,000 inhabitants; *² score; *³ age; *⁴ percentage; *⁵ US dollars; *⁶ gha pc; *⁷ distance to frontier

CROATIA



Population (2016):4 170 600

OWSQ 2017

Rank 29

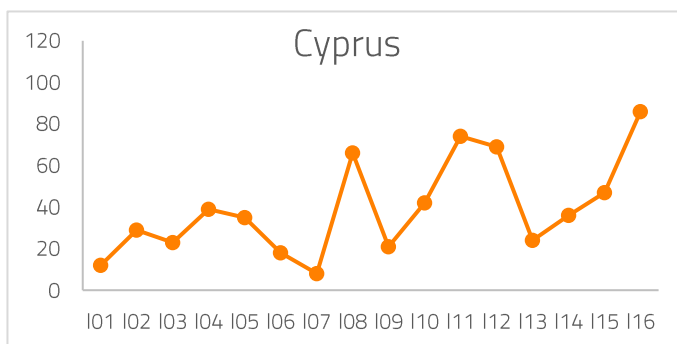
Score: 39.223

Quality group: **MODERATE**

	Rank	Value		Rank	Value
I01. ISO 9001 Certified Organizations * ¹	16	0.60639	I09. Gross Domestic Product * ⁵	37	12 160.11
I02. International Academy for Quality Members * ¹	29	0.0000000	I10. Gini Index * ⁴	30	32.51
I03. Indexed Quality Papers Published * ¹	17	0.11054	I11. Environmental Wellbeing Results * ²	34	5.93
I04. Universities in International Research Rankings * ¹	22	0.0002398	I12. Ecological Footprint * ⁶	75	3.77
I05. Education Index * ²	32	0.798	I13. Global Innovation Index * ²	34	39.80
I06. Healthy Life Expectancy * ³	26	69.4	I14. Ease of Doing Business Results * ⁷	34	72.99
I07. At Birth Mortality Rate * ⁴	25	3.6	I15. World Happiness Index * ²	55	5.29
I08. Global Competitiveness Index * ²	57	4.15	I16. Unemployment Rate * ⁴	93	14.21

*¹ per 1,000 inhabitants; *² score; *³ age; *⁴ percentage; *⁵ US dollars; *⁶ gha pc; *⁷ distance to frontier

CYPRUS



Population (2016):1 170 125

OWSQ 2017

Rank 30

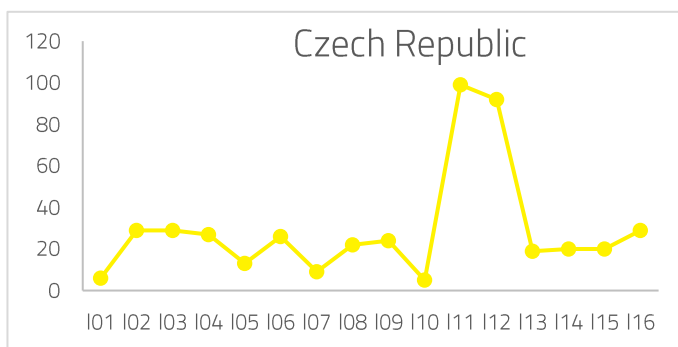
Score: 39.686

Quality group: **MODERATE**

	Rank	Value		Rank	Value
I01. ISO 9001 Certified Organizations * ¹	12	0.70249	I09. Gross Domestic Product * ⁵	21	23 324.20
I02. International Academy for Quality Members * ¹	29	0.0000000	I10. Gini Index * ⁴	42	34.31
I03. Indexed Quality Papers Published * ¹	23	0.07521	I11. Environmental Wellbeing Results * ²	74	4.51
I04. Universities in International Research Rankings * ¹	39	0.0000000	I12. Ecological Footprint * ⁶	69	3.31
I05. Education Index * ²	35	0.786	I13. Global Innovation Index * ²	24	46.84
I06. Healthy Life Expectancy * ³	18	71.3	I14. Ease of Doing Business Results * ⁷	36	72.65
I07. At Birth Mortality Rate * ⁴	8	2.5	I15. World Happiness Index * ²	47	5.62
I08. Global Competitiveness Index * ²	66	4.04	I16. Unemployment Rate * ⁴	86	11.88

*¹ per 1,000 inhabitants; *² score; *³ age; *⁴ percentage; *⁵ US dollars; *⁶ gha pc; *⁷ distance to frontier

CZECH REPUBLIC



Population (2016): 10 561 633

OWSQ 2017

Rank 13

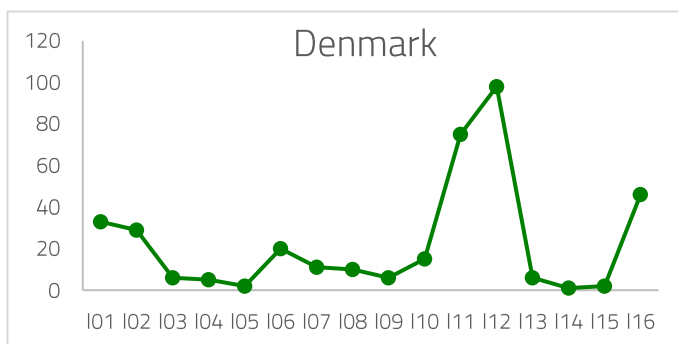
Score: 29.194

Quality group: FOLLOWER

	Rank	Value		Rank	Value
I01. ISO 9001 Certified Organizations * ¹	6	1.00818	I09. Gross Domestic Product * ⁵	24	18 491.94
I02. International Academy for Quality Members * ¹	29	0.0000000	I10. Gini Index * ⁴	5	26.13
I03. Indexed Quality Papers Published * ¹	29	0.06268	I11. Environmental Wellbeing Results * ²	99	3.30
I04. Universities in International Research Rankings * ¹	27	0.0000947	I12. Ecological Footprint * ⁶	92	5.29
I05. Education Index * ²	13	0.878	I13. Global Innovation Index * ²	19	50.98
I06. Healthy Life Expectancy * ³	26	69.4	I14. Ease of Doing Business Results * ⁷	20	76.71
I07. At Birth Mortality Rate * ⁴	9	2.8	I15. World Happiness Index * ²	20	6.61
I08. Global Competitiveness Index * ²	22	4.72	I16. Unemployment Rate * ⁴	29	4.97

*¹ per 1,000 inhabitants; *² score; *³ age; *⁴ percentage; *⁵ US dollars; *⁶ gha pc; *⁷ distance to frontier

DENMARK



Population (2016): 5 731 118

OWSQ 2017

Rank 4

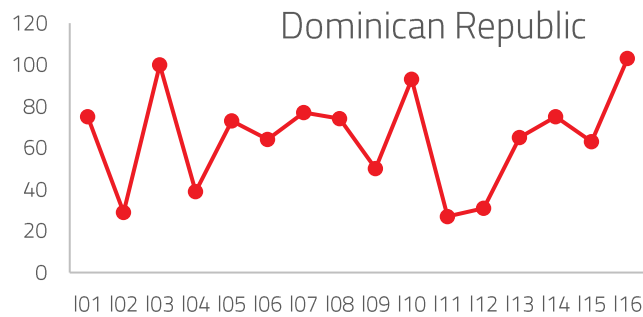
Score: 22.303

Quality group: LEADING

	Rank	Value		Rank	Value
I01. ISO 9001 Certified Organizations * ¹	33	0.32542	I09. Gross Domestic Product * ⁵	6	53 549.70
I02. International Academy for Quality Members * ¹	29	0.0000000	I10. Gini Index * ⁴	15	29.08
I03. Indexed Quality Papers Published * ¹	6	0.17885	I11. Environmental Wellbeing Results * ²	75	4.49
I04. Universities in International Research Rankings * ¹	5	0.0008724	I12. Ecological Footprint * ⁶	98	6.11
I05. Education Index * ²	2	0.923	I13. Global Innovation Index * ²	6	58.70
I06. Healthy Life Expectancy * ³	20	71.2	I14. Ease of Doing Business Results * ⁷	1	84.87
I07. At Birth Mortality Rate * ⁴	11	2.9	I15. World Happiness Index * ²	2	7.52
I08. Global Competitiveness Index * ²	10	5.35	I16. Unemployment Rate * ⁴	46	6.35

*¹ per 1,000 inhabitants; *² score; *³ age; *⁴ percentage; *⁵ US dollars; *⁶ gha pc; *⁷ distance to frontier

DOMINICAN REPUBLIC



Population (2016): 10 648 791

OWSQ 2017

Rank 78

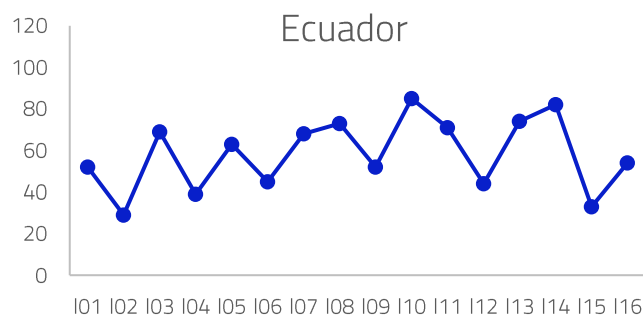
Score: 65.462

Quality group: **BEGINNING**

	Rank	Value		Rank	Value
I01. ISO 9001 Certified Organizations * ¹	75	0.01812	I09. Gross Domestic Product * ⁵	50	6 722.22
I02. International Academy for Quality Members * ¹	29	0.0000000	I10. Gini Index * ⁴	93	47.07
I03. Indexed Quality Papers Published * ¹	100	0.00094	I11. Environmental Wellbeing Results * ²	27	6.34
I04. Universities in International Research Rankings * ¹	39	0.0000000	I12. Ecological Footprint * ⁶	31	1.53
I05. Education Index * ²	73	0.622	I13. Global Innovation Index * ²	65	31.17
I06. Healthy Life Expectancy * ³	64	65.1	I14. Ease of Doing Business Results * ⁷	75	59.35
I07. At Birth Mortality Rate * ⁴	77	25.7	I15. World Happiness Index * ²	63	5.23
I08. Global Competitiveness Index * ²	74	3.94	I16. Unemployment Rate * ⁴	103	22.22

*¹ per 1,000 inhabitants; *² score; *³ age; *⁴ percentage; *⁵ US dollars; *⁶ gha pc; *⁷ distance to frontier

ECUADOR



Population (2016): 16 385 068

OWSQ 2017

Rank 64

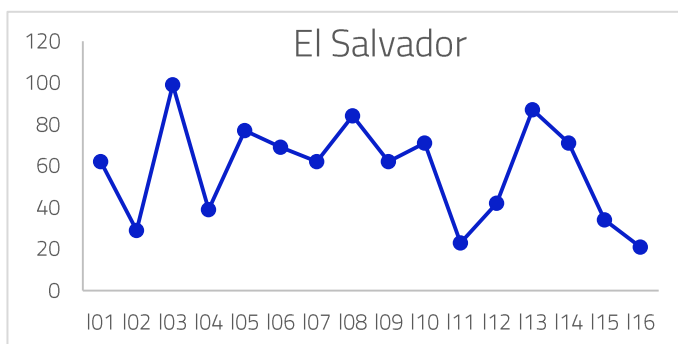
Score: 58.412

Quality group: **LAGGING**

	Rank	Value		Rank	Value
I01. ISO 9001 Certified Organizations * ¹	52	0.07751	I09. Gross Domestic Product * ⁵	52	6 018.53
I02. International Academy for Quality Members * ¹	29	0.0000000	I10. Gini Index * ⁴	85	45.38
I03. Indexed Quality Papers Published * ¹	69	0.00336	I11. Environmental Wellbeing Results * ²	71	4.65
I04. Universities in International Research Rankings * ¹	39	0.0000000	I12. Ecological Footprint * ⁶	44	1.94
I05. Education Index * ²	63	0.665	I13. Global Innovation Index * ²	74	29.14
I06. Healthy Life Expectancy * ³	45	67.0	I14. Ease of Doing Business Results * ⁷	82	57.97
I07. At Birth Mortality Rate * ⁴	68	18.4	I15. World Happiness Index * ²	33	6.01
I08. Global Competitiveness Index * ²	73	3.96	I16. Unemployment Rate * ⁴	54	6.97

*¹ per 1,000 inhabitants; *² score; *³ age; *⁴ percentage; *⁵ US dollars; *⁶ gha pc; *⁷ distance to frontier

EL SALVADOR



Population (2016):6 344 722

OWSQ 2017

Rank 65

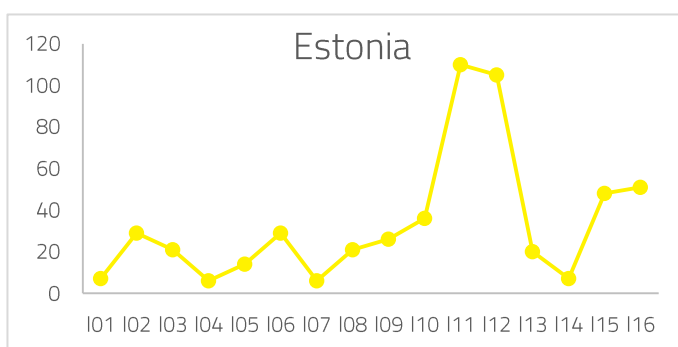
Score: 58.456

Quality group: **LAGGING**

	Rank	Value		Rank	Value
I01. ISO 9001 Certified Organizations * ¹	62	0.03467	I09. Gross Domestic Product * ⁵	62	4 223.58
I02. International Academy for Quality Members * ¹	29	0.0000000	I10. Gini Index * ⁴	71	41.84
I03. Indexed Quality Papers Published * ¹	99	0.00095	I11. Environmental Wellbeing Results * ²	23	6.57
I04. Universities in International Research Rankings * ¹	39	0.0000000	I12. Ecological Footprint * ⁶	42	1.89
I05. Education Index * ²	77	0.584	I13. Global Innovation Index * ²	87	26.68
I06. Healthy Life Expectancy * ³	69	64.1	I14. Ease of Doing Business Results * ⁷	71	61.02
I07. At Birth Mortality Rate * ⁴	62	14.4	I15. World Happiness Index * ²	34	6.00
I08. Global Competitiveness Index * ²	84	3.81	I16. Unemployment Rate * ⁴	21	4.34

*¹ per 1,000 inhabitants; *² score; *³ age; *⁴ percentage; *⁵ US dollars; *⁶ gha pc; *⁷ distance to frontier

ESTONIA



Population (2016):1 316 481

OWSQ 2017

Rank 20

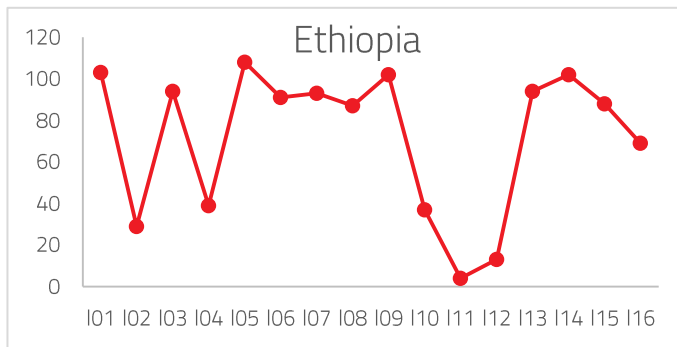
Score: 33.671

Quality group: **FOLLOWER**

	Rank	Value		Rank	Value
I01. ISO 9001 Certified Organizations * ¹	7	0.85911	I09. Gross Domestic Product * ⁵	26	17 727.49
I02. International Academy for Quality Members * ¹	29	0.0000000	I10. Gini Index * ⁴	36	33.15
I03. Indexed Quality Papers Published * ¹	21	0.08128	I11. Environmental Wellbeing Results * ²	110	2.21
I04. Universities in International Research Rankings * ¹	6	0.0007596	I12. Ecological Footprint * ⁶	105	7.01
I05. Education Index * ²	14	0.877	I13. Global Innovation Index * ²	20	50.93
I06. Healthy Life Expectancy * ³	29	69.0	I14. Ease of Doing Business Results * ⁷	7	81.05
I07. At Birth Mortality Rate * ⁴	6	2.3	I15. World Happiness Index * ²	48	5.61
I08. Global Competitiveness Index * ²	21	4.78	I16. Unemployment Rate * ⁴	51	6.75

*¹ per 1,000 inhabitants; *² score; *³ age; *⁴ percentage; *⁵ US dollars; *⁶ gha pc; *⁷ distance to frontier

ETHIOPIA



Population (2016): 102 403 196

OWSQ 2017

Rank 96

Score: 73.466

Quality group: **BEGINNING**

	Rank	Value		Rank	Value
I01. ISO 9001 Certified Organizations * ¹	103	0.00097	I09. Gross Domestic Product * ⁵	102	706.76
I02. International Academy for Quality Members * ¹	29	0.000000	I10. Gini Index * ⁴	37	33.17
I03. Indexed Quality Papers Published * ¹	94	0.00102	I11. Environmental Wellbeing Results * ²	4	7.82
I04. Universities in International Research Rankings * ¹	39	0.000000	I12. Ecological Footprint * ⁶	13	1.01
I05. Education Index * ²	108	0.318	I13. Global Innovation Index * ²	94	24.16
I06. Healthy Life Expectancy * ³	91	56.1	I14. Ease of Doing Business Results * ⁷	102	47.25
I07. At Birth Mortality Rate * ⁴	93	41.4	I15. World Happiness Index * ²	88	4.46
I08. Global Competitiveness Index * ²	87	3.77	I16. Unemployment Rate * ⁴	69	8.69

*¹ per 1,000 inhabitants; *² score; *³ age; *⁴ percentage; *⁵ US dollars; *⁶ gha pc; *⁷ distance to frontier

FINLAND



Population (2016): 5 495 096

OWSQ 2017

Rank 9

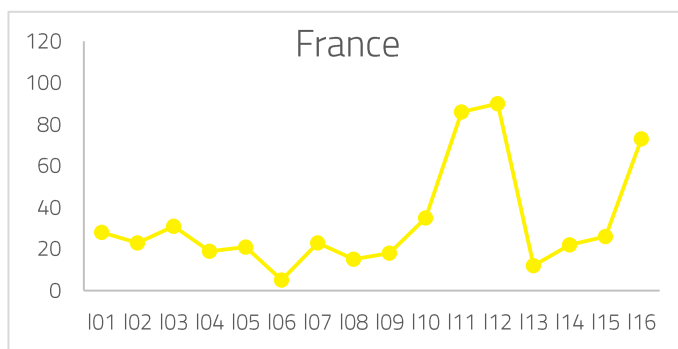
Score: 24.631

Quality group: **LEADING**

	Rank	Value		Rank	Value
I01. ISO 9001 Certified Organizations * ¹	23	0.47242	I09. Gross Domestic Product * ⁵	11	43402.86
I02. International Academy for Quality Members * ¹	1	0.0009099	I10. Gini Index * ⁴	8	27.12
I03. Indexed Quality Papers Published * ¹	11	0.15432	I11. Environmental Wellbeing Results * ²	95	3.61
I04. Universities in International Research Rankings * ¹	4	0.0009099	I12. Ecological Footprint * ⁶	103	6.73
I05. Education Index * ²	18	0.847	I13. Global Innovation Index * ²	7	58.49
I06. Healthy Life Expectancy * ³	23	71.0	I14. Ease of Doing Business Results * ⁷	8	80.84
I07. At Birth Mortality Rate * ⁴	2	1.9	I15. World Happiness Index * ²	4	7.47
I08. Global Competitiveness Index * ²	8	5.44	I16. Unemployment Rate * ⁴	68	8.54

*¹ per 1,000 inhabitants; *² score; *³ age; *⁴ percentage; *⁵ US dollars; *⁶ gha pc; *⁷ distance to frontier

FRANCE



Population (2016):66 896 109

OWSQ 2017

Rank 19

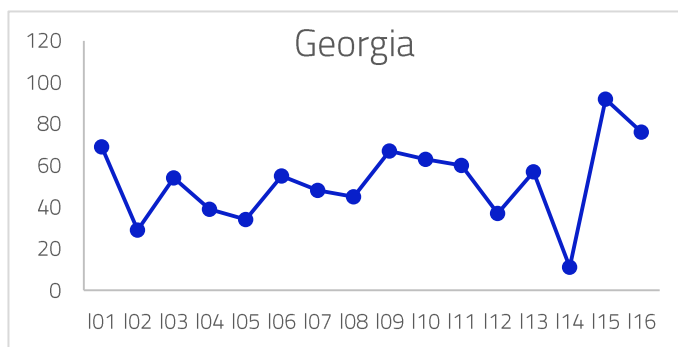
Score: 32.826

Quality group: **FOLLOWER**

Rank	Value	Rank	Value
I01. ISO 9001 Certified Organizations * ¹	28 0.41623	I09. Gross Domestic Product * ⁵	18 36 854.97
I02. International Academy for Quality Members * ¹	23 0.0000149	I10. Gini Index * ⁴	35 33.1
I03. Indexed Quality Papers Published * ¹	31 0.05558	I11. Environmental Wellbeing Results * ²	86 4.00
I04. Universities in International Research Rankings * ¹	19 0.0003289	I12. Ecological Footprint * ⁶	90 5.06
I05. Education Index * ²	21 0.839	I13. Global Innovation Index * ²	12 54.18
I06. Healthy Life Expectancy * ³	5 72.6	I14. Ease of Doing Business Results * ⁷	22 76.27
I07. At Birth Mortality Rate * ⁴	23 3.5	I15. World Happiness Index * ²	26 6.44
I08. Global Competitiveness Index * ²	15 5.20	I16. Unemployment Rate * ⁴	73 9.62

*¹ per 1,000 inhabitants; *² score; *³ age; *⁴ percentage; *⁵ US dollars; *⁶ gha pc; *⁷ distance to frontier

GEORGIA



Population (2016):3 719 300

OWSQ 2017

Rank 52

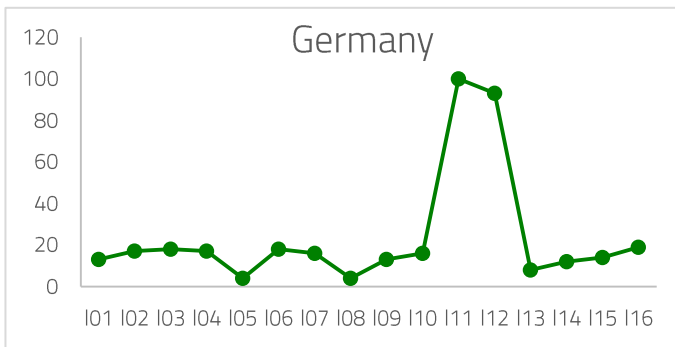
Score: 53.097

Quality group: **LAGGING**

Rank	Value	Rank	Value
I01. ISO 9001 Certified Organizations * ¹	69 0.02285	I09. Gross Domestic Product * ⁵	67 3 865.79
I02. International Academy for Quality Members * ¹	29 0.0000000	I10. Gini Index * ⁴	63 40.09
I03. Indexed Quality Papers Published * ¹	54 0.00672	I11. Environmental Wellbeing Results * ²	60 4.91
I04. Universities in International Research Rankings * ¹	39 0.0000000	I12. Ecological Footprint * ⁶	37 1.73
I05. Education Index * ²	34 0.794	I13. Global Innovation Index * ²	57 34.39
I06. Healthy Life Expectancy * ³	55 66.4	I14. Ease of Doing Business Results * ⁷	11 80.20
I07. At Birth Mortality Rate * ⁴	48 10.6	I15. World Happiness Index * ²	92 4.29
I08. Global Competitiveness Index * ²	45 4.32	I16. Unemployment Rate * ⁴	76 10.04

*¹ per 1,000 inhabitants; *² score; *³ age; *⁴ percentage; *⁵ US dollars; *⁶ gha pc; *⁷ distance to frontier

GERMANY



Population (2016):82 667 685

OWSQ 2017

Rank 7

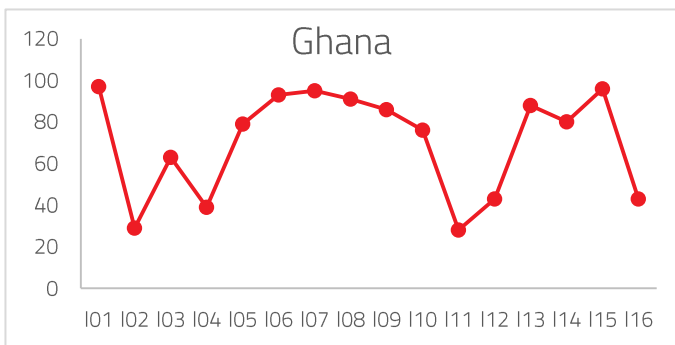
Score: 23.626

Quality group: **LEADING**

	Rank	Value		Rank	Value
I01. ISO 9001 Certified Organizations * ¹	13	0.64106	I09. Gross Domestic Product * ⁵	13	42 069.60
I02. International Academy for Quality Members * ¹	17	0.0000726	I10. Gini Index * ⁴	16	30.13
I03. Indexed Quality Papers Published * ¹	18	0.09715	I11. Environmental Wellbeing Results * ²	100	3.29
I04. Universities in International Research Rankings * ¹	17	0.0004597	I12. Ecological Footprint * ⁶	93	5.46
I05. Education Index * ²	4	0.914	I13. Global Innovation Index * ²	8	58.39
I06. Healthy Life Expectancy * ³	18	71.3	I14. Ease of Doing Business Results * ⁷	12	79.87
I07. At Birth Mortality Rate * ⁴	16	3.1	I15. World Happiness Index * ²	14	6.95
I08. Global Competitiveness Index * ²	4	5.57	I16. Unemployment Rate * ⁴	19	4.00

*¹ per 1,000 inhabitants; *² score; *³ age; *⁴ percentage; *⁵ US dollars; *⁶ gha pc; *⁷ distance to frontier

GHANA



Population (2016):28 206 728

OWSQ 2017

Rank 92

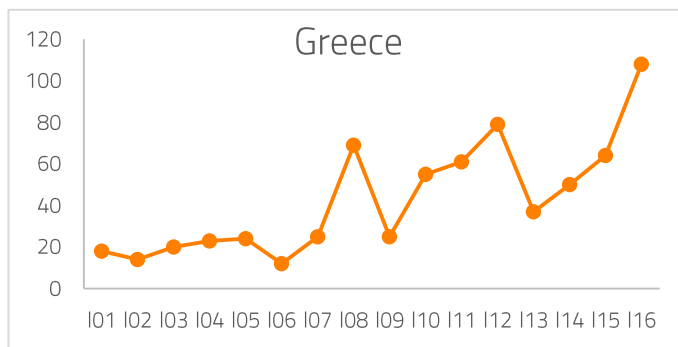
Score: 71.544

Quality group: **BEGINNING**

	Rank	Value		Rank	Value
I01. ISO 9001 Certified Organizations * ¹	97	0.00213	I09. Gross Domestic Product * ⁵	86	1 513.46
I02. International Academy for Quality Members * ¹	29	0.0000000	I10. Gini Index * ⁴	76	42.77
I03. Indexed Quality Papers Published * ¹	63	0.00401	I11. Environmental Wellbeing Results * ²	28	6.27
I04. Universities in International Research Rankings * ¹	39	0.0000000	I12. Ecological Footprint * ⁶	43	1.92
I05. Education Index * ²	79	0.551	I13. Global Innovation Index * ²	88	26.66
I06. Healthy Life Expectancy * ³	93	55.3	I14. Ease of Doing Business Results * ⁷	80	58.82
I07. At Birth Mortality Rate * ⁴	95	42.8	I15. World Happiness Index * ²	96	4.12
I08. Global Competitiveness Index * ²	91	3.68	I16. Unemployment Rate * ⁴	43	6.17

*¹ per 1,000 inhabitants; *² score; *³ age; *⁴ percentage; *⁵ US dollars; *⁶ gha pc; *⁷ distance to frontier

GREECE



Population (2016): 10 746 740

OWSQ 2017

Rank 36

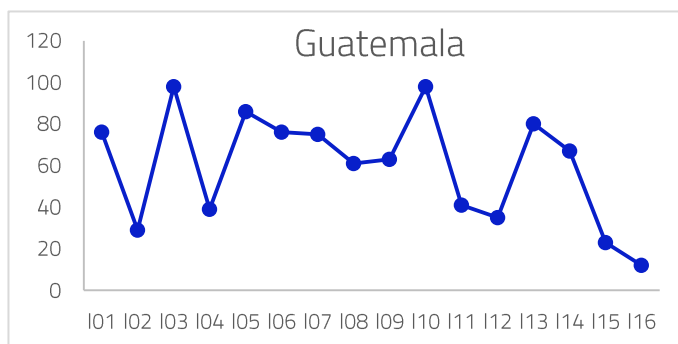
Score: 43.762

Quality group: MODERATE

	Rank	Value		Rank	Value
I01. ISO 9001 Certified Organizations * ¹	18	0.57571	I09. Gross Domestic Product * ⁵	25	17 930.16
I02. International Academy for Quality Members * ¹	14	0.0000931	I10. Gini Index * ⁴	55	36.68
I03. Indexed Quality Papers Published * ¹	20	0.08747	I11. Environmental Wellbeing Results * ²	61	4.89
I04. Universities in International Research Rankings * ¹ ...	23	0.0001861	I12. Ecological Footprint * ⁶	79	4.21
I05. Education Index * ²	24	0.830	I13. Global Innovation Index * ²	37	38.85
I06. Healthy Life Expectancy * ³	12	71.9	I14. Ease of Doing Business Results * ⁷	50	68.67
I07. At Birth Mortality Rate * ⁴	25	3.6	I15. World Happiness Index * ²	64	5.23
I08. Global Competitiveness Index * ²	69	4.00	I16. Unemployment Rate * ⁴	108	28.45

*¹ per 1,000 inhabitants; *² score; *³ age; *⁴ percentage; *⁵ US dollars; *⁶ gha pc; *⁷ distance to frontier

GUATEMALA



Population (2016): 16 582 469

OWSQ 2017

Rank 68

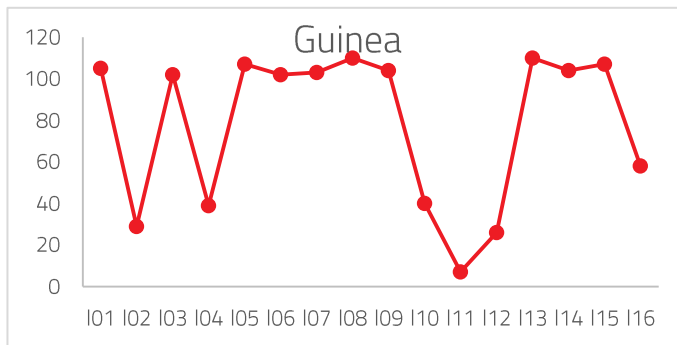
Score: 59.598

Quality group: LAGGING

	Rank	Value		Rank	Value
I01. ISO 9001 Certified Organizations * ¹	76	0.01357	I09. Gross Domestic Product * ⁵	63	4 146.74
I02. International Academy for Quality Members * ¹	29	0.0000000	I10. Gini Index * ⁴	98	48.66
I03. Indexed Quality Papers Published * ¹	98	0.00096	I11. Environmental Wellbeing Results * ²	41	5.50
I04. Universities in International Research Rankings * ¹ ...	39	0.0000000	I12. Ecological Footprint * ⁶	35	1.70
I05. Education Index * ²	86	0.508	I13. Global Innovation Index * ²	80	27.90
I06. Healthy Life Expectancy * ³	76	62.2	I14. Ease of Doing Business Results * ⁷	67	62.93
I07. At Birth Mortality Rate * ⁴	75	24.3	I15. World Happiness Index * ²	23	6.45
I08. Global Competitiveness Index * ²	61	4.08	I16. Unemployment Rate * ⁴	12	2.98

*¹ per 1,000 inhabitants; *² score; *³ age; *⁴ percentage; *⁵ US dollars; *⁶ gha pc; *⁷ distance to frontier

GUINEA



Population (2016): 12 395 924

OWSQ 2017

Rank 109

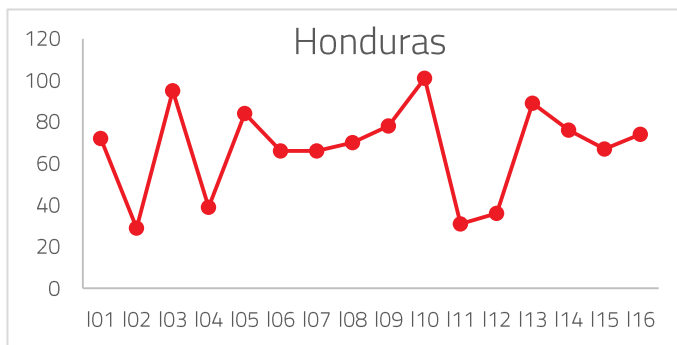
Score: 80.098

Quality group: **BEGINNING**

	Rank	Value		Rank	Value
I01. ISO 9001 Certified Organizations * ¹	105	0.00073	I09. Gross Domestic Product * ⁵	104	661.53
I02. International Academy for Quality Members * ¹	29	0.0000000	I10. Gini Index * ⁴	40	33.73
I03. Indexed Quality Papers Published * ¹	102	0.00081	I11. Environmental Wellbeing Results * ²	7	7.71
I04. Universities in International Research Rankings * ¹ ...	39	0.0000000	I12. Ecological Footprint * ⁶	26	1.37
I05. Education Index * ²	107	0.330	I13. Global Innovation Index * ²	110	17.41
I06. Healthy Life Expectancy * ³	102	5107	I14. Ease of Doing Business Results * ⁷	104	46.23
I07. At Birth Mortality Rate * ⁴	103	61.0	I15. World Happiness Index * ²	107	3.51
I08. Global Competitiveness Index * ²	110	2.84	I16. Unemployment Rate * ⁴	58	7.43

*¹ per 1,000 inhabitants; *² score; *³ age; *⁴ percentage; *⁵ US dollars; *⁶ gha pc; *⁷ distance to frontier

HONDURAS



Population (2016): 9 112 867

OWSQ 2017

Rank 84

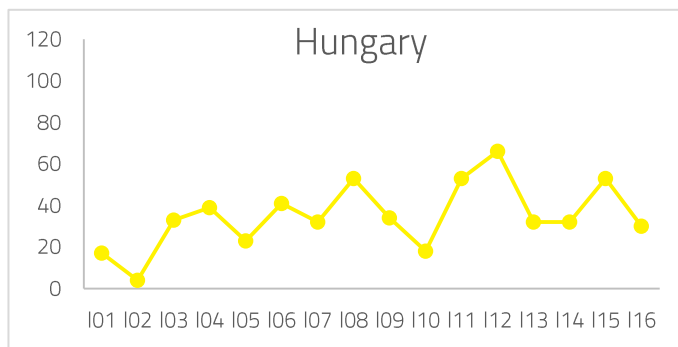
Score: 67.662

Quality group: **BEGINNING**

	Rank	Value		Rank	Value
I01. ISO 9001 Certified Organizations * ¹	72	0.01887	I09. Gross Domestic Product * ⁵	78	2 361.16
I02. International Academy for Quality Members * ¹	29	0.0000000	I10. Gini Index * ⁴	101	50.64
I03. Indexed Quality Papers Published * ¹	95	0.00099	I11. Environmental Wellbeing Results * ²	31	6.04
I04. Universities in International Research Rankings * ¹ ...	39	0.0000000	I12. Ecological Footprint * ⁶	36	1.71
I05. Education Index * ²	84	0.518	I13. Global Innovation Index * ²	89	26.36
I06. Healthy Life Expectancy * ³	66	64.9	I14. Ease of Doing Business Results * ⁷	76	59.09
I07. At Birth Mortality Rate * ⁴	66	17.4	I15. World Happiness Index * ²	67	5.18
I08. Global Competitiveness Index * ²	70	3.98	I16. Unemployment Rate * ⁴	74	9.71

*¹ per 1,000 inhabitants; *² score; *³ age; *⁴ percentage; *⁵ US dollars; *⁶ gha pc; *⁷ distance to frontier

HUNGARY



Population (2016):9 817 958

OWSQ 2017

Rank 26

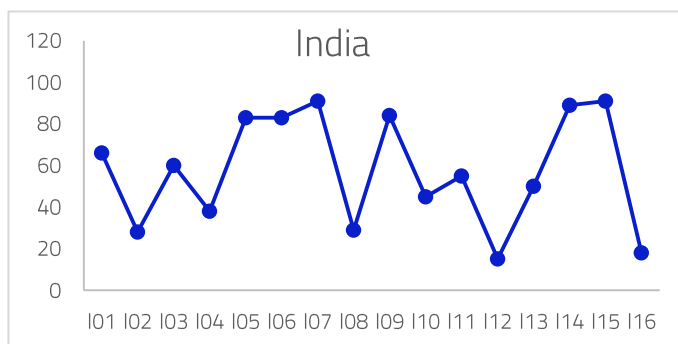
Score: 35.875

Quality group: **FOLLOWER**

	Rank	Value		Rank	Value
I01. ISO 9001 Certified Organizations * ¹	17	0.58963	I09. Gross Domestic Product * ⁵	34	12 814.95
I02. International Academy for Quality Members * ¹	4	0.0003056	I10. Gini Index * ⁴	18	30.55
I03. Indexed Quality Papers Published * ¹	33	0.03779	I11. Environmental Wellbeing Results * ²	53	5.16
I04. Universities in International Research Rankings * ¹ ...	39	0.0000000	I12. Ecological Footprint * ⁶	66	3.26
I05. Education Index * ²	23	0.834	I13. Global Innovation Index * ²	32	41.74
I06. Healthy Life Expectancy * ³	41	67.4	I14. Ease of Doing Business Results * ⁷	32	73.07
I07. At Birth Mortality Rate * ⁴	32	5.3	I15. World Happiness Index * ²	53	5.32
I08. Global Competitiveness Index * ²	53	4.20	I16. Unemployment Rate * ⁴	30	5.29

*¹ per 1,000 inhabitants; *² score; *³ age; *⁴ percentage; *⁵ US dollars; *⁶ gha pc; *⁷ distance to frontier

INDIA



Population (2016): 1 324 171 354

OWSQ 2017

Rank 67

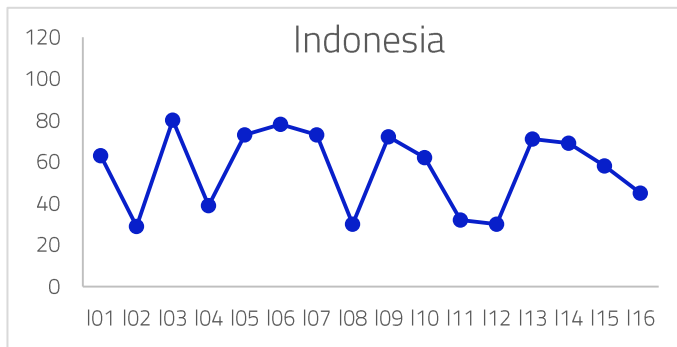
Score: 58.712

Quality group: **LAGGING**

	Rank	Value		Rank	Value
I01. ISO 9001 Certified Organizations * ¹	66	0.02742	I09. Gross Domestic Product * ⁵	84	1 709.59
I02. International Academy for Quality Members * ¹	28	0.0000045	I10. Gini Index * ⁴	45	35.15
I03. Indexed Quality Papers Published * ¹	60	0.00491	I11. Environmental Wellbeing Results * ²	55	5.14
I04. Universities in International Research Rankings * ¹ ...	38	0.0000008	I12. Ecological Footprint * ⁶	15	1.06
I05. Education Index * ²	83	0.535	I13. Global Innovation Index * ²	50	35.47
I06. Healthy Life Expectancy * ³	83	59.6	I14. Ease of Doing Business Results * ⁷	89	55.27
I07. At Birth Mortality Rate * ⁴	91	37.9	I15. World Happiness Index * ²	91	4.32
I08. Global Competitiveness Index * ²	29	4.52	I16. Unemployment Rate * ⁴	18	3.81

*¹ per 1,000 inhabitants; *² score; *³ age; *⁴ percentage; *⁵ US dollars; *⁶ gha pc; *⁷ distance to frontier

INDONESIA



Population (2016): 261 115 456

OWSQ 2017

Rank 57

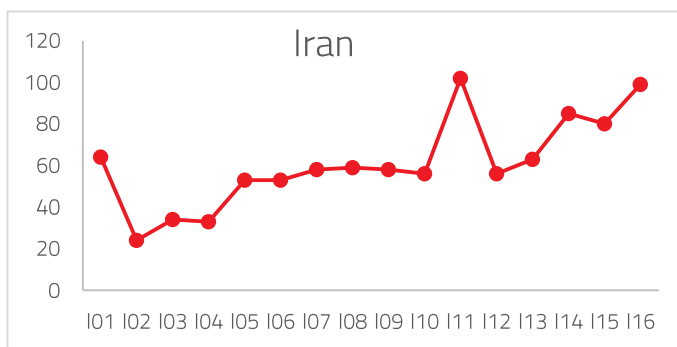
Score: 56.939

Quality group: **LAGGING**

	Rank	Value		Rank	Value
I01. ISO 9001 Certified Organizations * ¹	63	0.03299	I09. Gross Domestic Product * ⁵	72	3 570.29
I02. International Academy for Quality Members * ¹	29	0.0000000	I10. Gini Index * ⁴	62	39.47
I03. Indexed Quality Papers Published * ¹	80	0.00177	I11. Environmental Wellbeing Results * ²	32	5.99
I04. Universities in International Research Rankings * ¹ ...	39	0.0000000	I12. Ecological Footprint * ⁶	30	1.45
I05. Education Index * ²	73	0.622	I13. Global Innovation Index * ²	71	30.10
I06. Healthy Life Expectancy * ³	78	62.1	I14. Ease of Doing Business Results * ⁷	69	61.52
I07. At Birth Mortality Rate * ⁴	73	22.8	I15. World Happiness Index * ²	58	5.26
I08. Global Competitiveness Index * ²	30	4.52	I16. Unemployment Rate * ⁴	45	6.34

*¹ per 1,000 inhabitants; *² score; *³ age; *⁴ percentage; *⁵ US dollars; *⁶ gha pc; *⁷ distance to frontier

IRAN



Population (2016): 80 277 428

OWSQ 2017

Rank 71

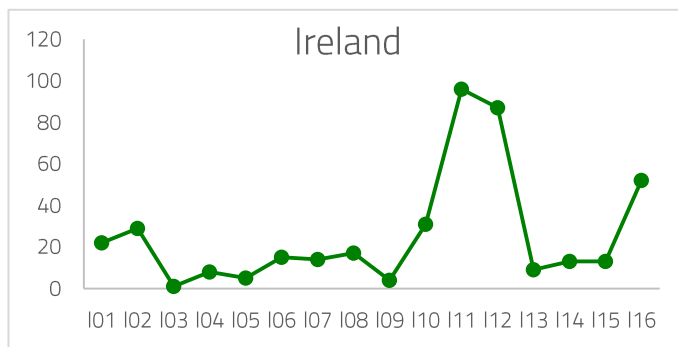
Score: 62.123

Quality group: **BEGINNING**

	Rank	Value		Rank	Value
I01. ISO 9001 Certified Organizations * ¹	64	0.03280	I09. Gross Domestic Product * ⁵	58	5 219.11
I02. International Academy for Quality Members * ¹	24	0.0000125	I10. Gini Index * ⁴	56	37.35
I03. Indexed Quality Papers Published * ¹	34	0.03474	I11. Environmental Wellbeing Results * ²	102	3.12
I04. Universities in International Research Rankings * ¹ ...	33	0.0000249	I12. Ecological Footprint * ⁶	56	3.00
I05. Education Index * ²	53	0.704	I13. Global Innovation Index * ²	63	32.09
I06. Healthy Life Expectancy * ³	53	66.5	I14. Ease of Doing Business Results * ⁷	85	57.26
I07. At Birth Mortality Rate * ⁴	58	13.4	I15. World Happiness Index * ²	80	4.69
I08. Global Competitiveness Index * ²	59	4.12	I16. Unemployment Rate * ⁴	99	18.90

*¹ per 1,000 inhabitants; *² score; *³ age; *⁴ percentage; *⁵ US dollars; *⁶ gha pc; *⁷ distance to frontier

IRELAND



Population (2016):4 773 095

OWSQ 2017

Rank 10

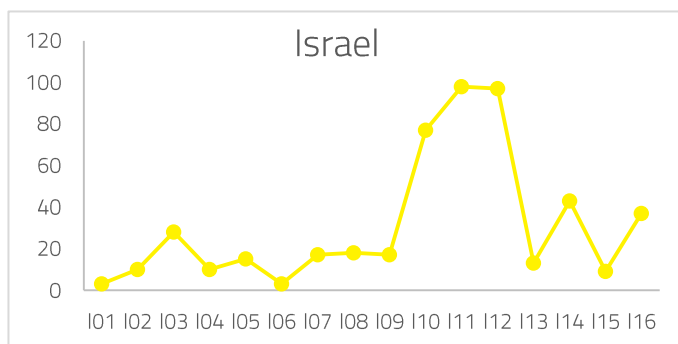
Score: 25.623

Quality group: **LEADING**

	Rank	Value		Rank	Value
I01. ISO 9001 Certified Organizations * ¹	22	0.48669	I09. Gross Domestic Product * ⁵	4	63 681.92
I02. International Academy for Quality Members * ¹	29	0.0000000	I10. Gini Index * ⁴	31	32.52
I03. Indexed Quality Papers Published * ¹	1	0.19673	I11. Environmental Wellbeing Results * ²	96	3.58
I04. Universities in International Research Rankings * ¹	8	0.0006285	I12. Ecological Footprint * ⁶	87	4.80
I05. Education Index * ²	5	0.910	I13. Global Innovation Index * ²	9	58.13
I06. Healthy Life Expectancy * ³	15	71.5	I14. Ease of Doing Business Results * ⁷	13	79.53
I07. At Birth Mortality Rate * ⁴	14	3.0	I15. World Happiness Index * ²	13	6.98
I08. Global Competitiveness Index * ²	17	5.18	I16. Unemployment Rate * ⁴	52	6.92

*¹ per 1,000 inhabitants; *² score; *³ age; *⁴ percentage; *⁵ US dollars; *⁶ gha pc; *⁷ distance to frontier

ISRAEL



Population (2016):8 547 100

OWSQ 2017

Rank 16

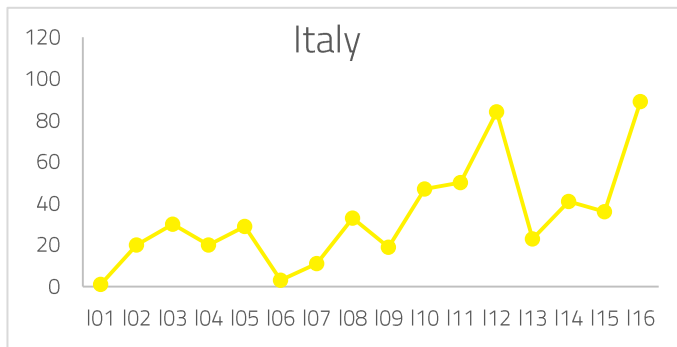
Score: 30.587

Quality group: **FOLLOWER**

	Rank	Value		Rank	Value
I01. ISO 9001 Certified Organizations * ¹	3	1.06293	I09. Gross Domestic Product * ⁵	17	37 175.74
I02. International Academy for Quality Members * ¹	10	0.0001170	I10. Gini Index * ⁴	77	42.78
I03. Indexed Quality Papers Published * ¹	28	0.06306	I11. Environmental Wellbeing Results * ²	98	3.40
I04. Universities in International Research Rankings * ¹	10	0.0005850	I12. Ecological Footprint * ⁶	97	5.96
I05. Education Index * ²	15	0.870	I13. Global Innovation Index * ²	13	53.88
I06. Healthy Life Expectancy * ³	3	72.8	I14. Ease of Doing Business Results * ⁷	43	71.65
I07. At Birth Mortality Rate * ⁴	17	3.2	I15. World Happiness Index * ²	9	7.21
I08. Global Competitiveness Index * ²	18	5.18	I16. Unemployment Rate * ⁴	37	5.78

*¹ per 1,000 inhabitants; *² score; *³ age; *⁴ percentage; *⁵ US dollars; *⁶ gha pc; *⁷ distance to frontier

ITALY



Population (2016):60 600 590

OWSQ 2017

Rank 21

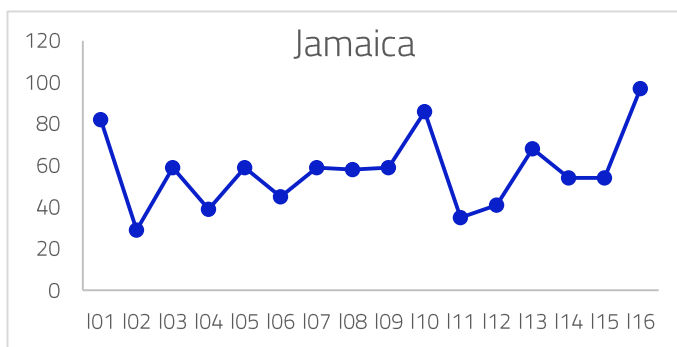
Score: 33.823

Quality group: **FOLLOWER**

	Rank	Value		Rank	Value
I01. ISO 9001 Certified Organizations * ¹	1	2.19255	I09. Gross Domestic Product * ⁵	19	30 674.84
I02. International Academy for Quality Members * ¹	20	0.0000330	I10. Gini Index * ⁴	47	35.16
I03. Indexed Quality Papers Published * ¹	30	0.05838	I11. Environmental Wellbeing Results * ²	50	5.20
I04. Universities in International Research Rankings * ¹ ...	20	0.0003135	I12. Ecological Footprint * ⁶	84	4.50
I05. Education Index * ²	29	0.814	I13. Global Innovation Index * ²	23	46.96
I06. Healthy Life Expectancy * ³	3	72.8	I14. Ease of Doing Business Results * ⁷	41	72.25
I07. At Birth Mortality Rate * ⁴	11	2.9	I15. World Happiness Index * ²	36	5.96
I08. Global Competitiveness Index * ²	33	4.50	I16. Unemployment Rate * ⁴	89	12.67

*¹ per 1,000 inhabitants; *² score; *³ age; *⁴ percentage; *⁵ US dollars; *⁶ gha pc; *⁷ distance to frontier

JAMAICA



Population (2016):2 881 355

OWSQ 2017

Rank 63

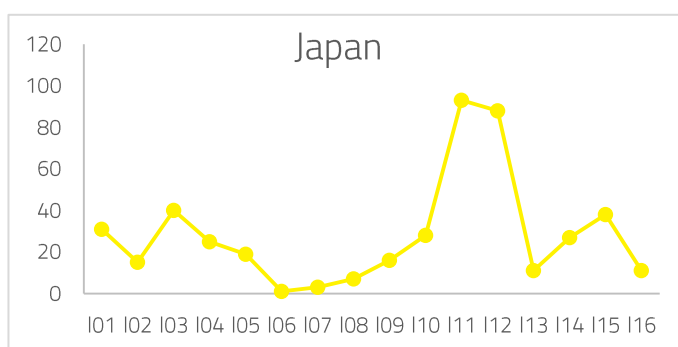
Score: 58.107

Quality group: **LAGGING**

	Rank	Value		Rank	Value
I01. ISO 9001 Certified Organizations * ¹	82	0.00902	I09. Gross Domestic Product * ⁵	59	4 878.58
I02. International Academy for Quality Members * ¹	29	0.0000000	I10. Gini Index * ⁴	86	45.46
I03. Indexed Quality Papers Published * ¹	59	0.00555	I11. Environmental Wellbeing Results * ²	35	5.83
I04. Universities in International Research Rankings * ¹ ...	39	0.0000000	I12. Ecological Footprint * ⁶	41	1.89
I05. Education Index * ²	59	0.678	I13. Global Innovation Index * ²	68	30.36
I06. Healthy Life Expectancy * ³	45	67.0	I14. Ease of Doing Business Results * ⁷	54	67.54
I07. At Birth Mortality Rate * ⁴	59	13.5	I15. World Happiness Index * ²	54	5.31
I08. Global Competitiveness Index * ²	58	4.13	I16. Unemployment Rate * ⁴	97	18.16

*¹ per 1,000 inhabitants; *² score; *³ age; *⁴ percentage; *⁵ US dollars; *⁶ gha pc; *⁷ distance to frontier

JAPAN



Population (2016): 126 994 511

OWSQ 2017

Rank 12

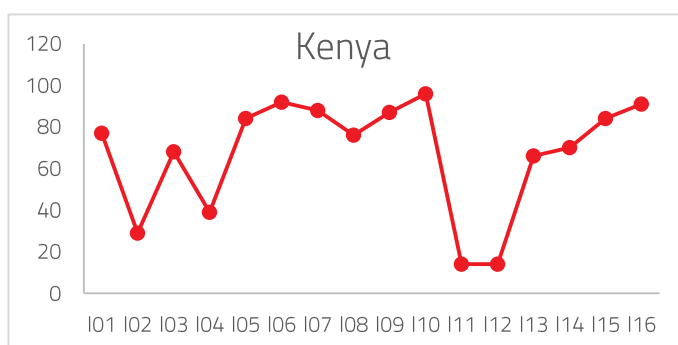
Score: 28.293

Quality group: **FOLLOWER**

	Rank	Value		Rank	Value
I01. ISO 9001 Certified Organizations * ¹	31	0.37089	I09. Gross Domestic Product * ⁵	16	38 900.57
I02. International Academy for Quality Members * ¹	15	0.0000866	I10. Gini Index * ⁴	28	32.11
I03. Indexed Quality Papers Published * ¹	40	0.01874	I11. Environmental Wellbeing Results * ²	93	3.62
I04. Universities in International Research Rankings * ¹ ...	25	0.0001260	I12. Ecological Footprint * ⁶	88	4.99
I05. Education Index * ²	19	0.842	I13. Global Innovation Index * ²	11	54.72
I06. Healthy Life Expectancy * ³	1	74.9	I14. Ease of Doing Business Results * ⁷	27	75.53
I07. At Birth Mortality Rate * ⁴	3	2.0	I15. World Happiness Index * ²	38	5.92
I08. Global Competitiveness Index * ²	7	5.48	I16. Unemployment Rate * ⁴	11	2.91

*¹ per 1,000 inhabitants; *² score; *³ age; *⁴ percentage; *⁵ US dollars; *⁶ gha pc; *⁷ distance to frontier

KENYA



Population (2016): 48 461 567

OWSQ 2017

Rank 85

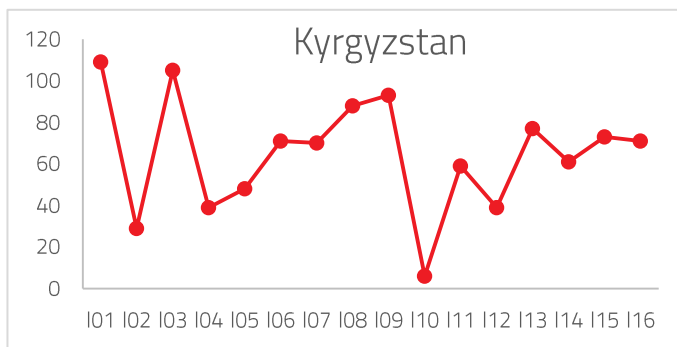
Score: 68.108

Quality group: **BEGINNING**

	Rank	Value		Rank	Value
I01. ISO 9001 Certified Organizations * ¹	77	0.01354	I09. Gross Domestic Product * ⁵	87	1 455.36
I02. International Academy for Quality Members * ¹	29	0.0000000	I10. Gini Index * ⁴	96	48.51
I03. Indexed Quality Papers Published * ¹	68	0.00338	I11. Environmental Wellbeing Results * ²	14	7.36
I04. Universities in International Research Rankings * ¹ ...	39	0.0000000	I12. Ecological Footprint * ⁶	14	1.03
I05. Education Index * ²	84	0.518	I13. Global Innovation Index * ²	66	30.95
I06. Healthy Life Expectancy * ³	92	55.6	I14. Ease of Doing Business Results * ⁷	70	61.22
I07. At Birth Mortality Rate * ⁴	88	35.5	I15. World Happiness Index * ²	84	4.55
I08. Global Competitiveness Index * ²	76	3.90	I16. Unemployment Rate * ⁴	91	13.17

*¹ per 1,000 inhabitants; *² score; *³ age; *⁴ percentage; *⁵ US dollars; *⁶ gha pc; *⁷ distance to frontier

KYRGYZSTAN



Population (2016):6 082 700

OWSQ 2017

Rank80

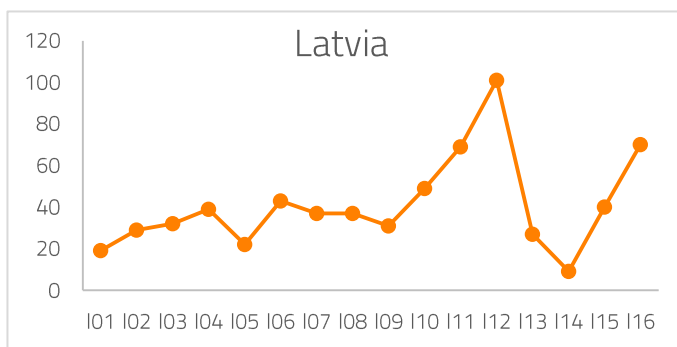
Score:66.086

Quality group: **BEGINNING**

	Rank	Value		Rank	Value
I01. ISO 9001 Certified Organizations * ¹	109	0.00016	I09. Gross Domestic Product * ⁵	93	1 077.04
I02. International Academy for Quality Members * ¹	29	0.0000000	I10. Gini Index * ⁴	6	26.82
I03. Indexed Quality Papers Published * ¹	105	0.00049	I11. Environmental Wellbeing Results * ²	59	4.95
I04. Universities in International Research Rankings * ¹ ...	39	0.0000000	I12. Ecological Footprint * ⁶	39	1.87
I05. Education Index * ²	48	0.721	I13. Global Innovation Index * ²	77	28.01
I06. Healthy Life Expectancy * ³	71	63.9	I14. Ease of Doing Business Results * ⁷	61	65.17
I07. At Birth Mortality Rate * ⁴	70	19.0	I15. World Happiness Index * ²	73	5.00
I08. Global Competitiveness Index * ²	88	3.75	I16. Unemployment Rate * ⁴	71	9.14

*¹ per 1,000 inhabitants; *² score; *³ age; *⁴ percentage; *⁵ US dollars; *⁶ gha pc; *⁷ distance to frontier

LATVIA



Population (2016):1 960 424

OWSQ 2017

Rank32

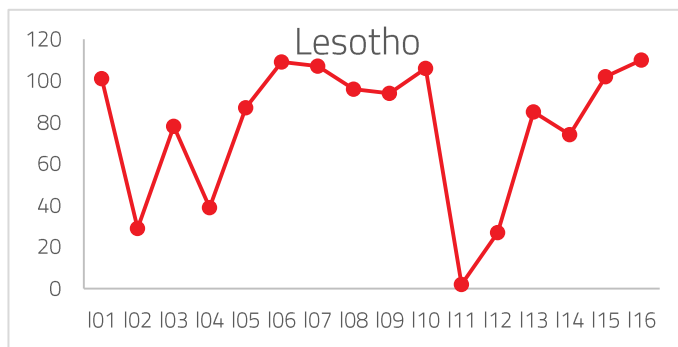
Score:40.936

Quality group: **MODERATE**

	Rank	Value		Rank	Value
I01. ISO 9001 Certified Organizations * ¹	19	0.56875	I09. Gross Domestic Product * ⁵	31	14 064.66
I02. International Academy for Quality Members * ¹	29	0.0000000	I10. Gini Index * ⁴	49	35.48
I03. Indexed Quality Papers Published * ¹	32	0.05458	I11. Environmental Wellbeing Results * ²	69	4.73
I04. Universities in International Research Rankings * ¹ ...	39	0.0000000	I12. Ecological Footprint * ⁶	101	6.53
I05. Education Index * ²	22	0.835	I13. Global Innovation Index * ²	27	44.61
I06. Healthy Life Expectancy * ³	43	67.1	I14. Ease of Doing Business Results * ⁷	9	80.61
I07. At Birth Mortality Rate * ⁴	37	6.9	I15. World Happiness Index * ²	40	5.85
I08. Global Competitiveness Index * ²	37	4.45	I16. Unemployment Rate * ⁴	70	8.93

*¹ per 1,000 inhabitants; *² score; *³ age; *⁴ percentage; *⁵ US dollars; *⁶ gha pc; *⁷ distance to frontier

LESOTHO



Population (2016):2 203 821

OWSQ 2017

Rank 108

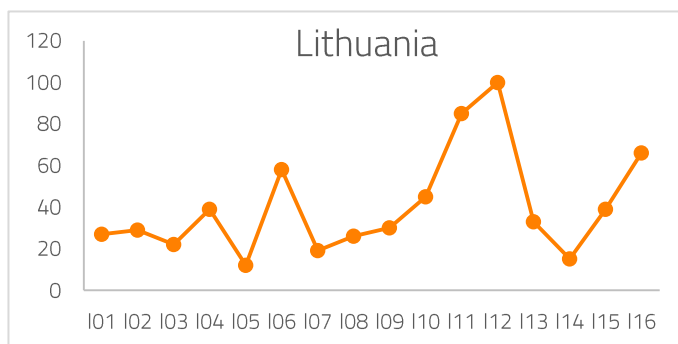
Score:79.188

Quality group: **BEGINNING**

	Rank	Value		Rank	Value
I01. ISO 9001 Certified Organizations * ¹	101	0.00136	I09. Gross Domestic Product * ⁵	94	1 039.70
I02. International Academy for Quality Members * ¹	29	0.0000000	I10. Gini Index * ⁴	106	54.18
I03. Indexed Quality Papers Published * ¹	78	0.00182	I11. Environmental Wellbeing Results * ²	2	7.93
I04. Universities in International Research Rankings * ¹ ...	39	0.0000000	I12. Ecological Footprint * ⁶	27	1.43
I05. Education Index * ²	87	0.503	I13. Global Innovation Index * ²	85	26.97
I06. Healthy Life Expectancy * ³	109	46.6	I14. Ease of Doing Business Results * ⁷	74	60.37
I07. At Birth Mortality Rate * ⁴	107	69.2	I15. World Happiness Index * ²	102	3.81
I08. Global Competitiveness Index * ²	96	3.57	I16. Unemployment Rate * ⁴	110	31.79

*¹ per 1,000 inhabitants; *² score; *³ age; *⁴ percentage; *⁵ US dollars; *⁶ gha pc; *⁷ distance to frontier

LITHUANIA



Population (2016):2 872 298

OWSQ 2017

Rank 31

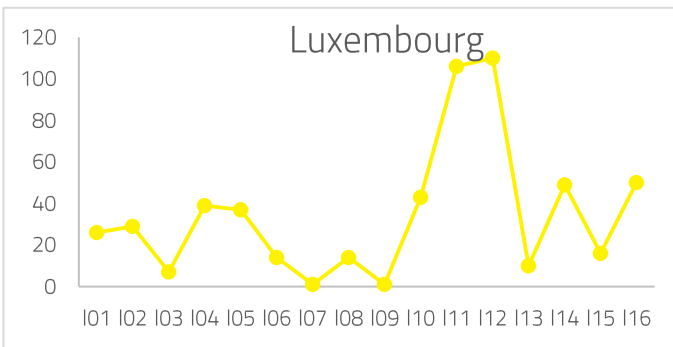
Score:40.3981

Quality group: **MODERATE**

	Rank	Value		Rank	Value
I01. ISO 9001 Certified Organizations * ¹	27	0.43101	I09. Gross Domestic Product * ⁵	30	14 879.68
I02. International Academy for Quality Members * ¹	29	0.0000000	I10. Gini Index * ⁴	45	35.15
I03. Indexed Quality Papers Published * ¹	22	0.07973	I11. Environmental Wellbeing Results * ²	85	4.02
I04. Universities in International Research Rankings * ¹ ...	39	0.0000000	I12. Ecological Footprint * ⁶	100	6.18
I05. Education Index * ²	12	0.882	I13. Global Innovation Index * ²	33	41.17
I06. Healthy Life Expectancy * ³	58	66.1	I14. Ease of Doing Business Results * ⁷	15	78.84
I07. At Birth Mortality Rate * ⁴	19	3.3	I15. World Happiness Index * ²	39	5.90
I08. Global Competitiveness Index * ²	26	4.60	I16. Unemployment Rate * ⁴	66	8.24

*¹ per 1,000 inhabitants; *² score; *³ age; *⁴ percentage; *⁵ US dollars; *⁶ gha pc; *⁷ distance to frontier

LUXEMBOURG



Population (2016): 582 972

OWSQ 2017

Rank 23

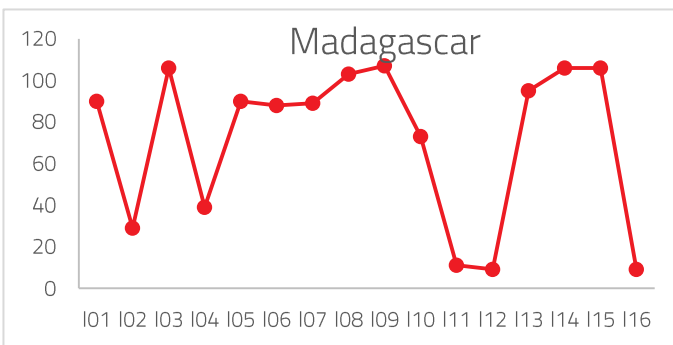
Score: 33.964

Quality group: **FOLLOWER**

Rank	Value	Rank	Value
I01. ISO 9001 Certified Organizations * ¹	26 0.43227	I09. Gross Domestic Product * ⁵	1 100 573.14
I02. International Academy for Quality Members * ¹	29 0.0000000	I10. Gini Index * ⁴	43 34.79
I03. Indexed Quality Papers Published * ¹	7 0.17668	I11. Environmental Wellbeing Results * ²	106 2.56
I04. Universities in International Research Rankings * ¹ ...	39 0.0000000	I12. Ecological Footprint * ⁶	110 13.09
I05. Education Index * ²	37 0.783	I13. Global Innovation Index * ²	10 56.40
I06. Healthy Life Expectancy * ³	14 71.8	I14. Ease of Doing Business Results * ⁷	49 68.81
I07. At Birth Mortality Rate * ⁴	1 1.5	I15. World Happiness Index * ²	16 6.86
I08. Global Competitiveness Index * ²	14 5.20	I16. Unemployment Rate * ⁴	50 6.72

*¹ per 1,000 inhabitants; *² score; *³ age; *⁴ percentage; *⁵ US dollars; *⁶ gha pc; *⁷ distance to frontier

MADAGASCAR



Population (2016): 24 894 551

OWSQ 2017

Rank 95

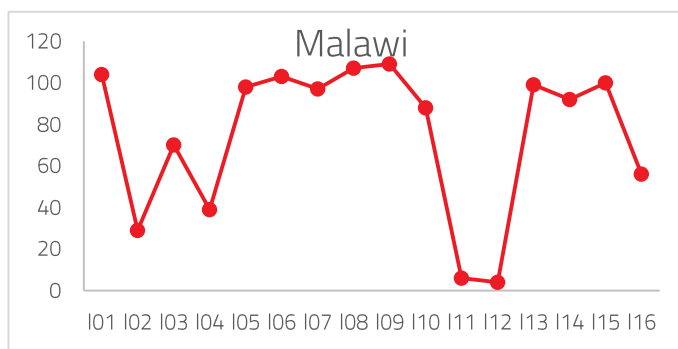
Score: 73.313

Quality group: **BEGINNING**

Rank	Value	Rank	Value
I01. ISO 9001 Certified Organizations * ¹	90 0.00386	I09. Gross Domestic Product * ⁵	107 401.74
I02. International Academy for Quality Members * ¹	29 0.0000000	I10. Gini Index * ⁴	73 42.65
I03. Indexed Quality Papers Published * ¹	106 0.00036	I11. Environmental Wellbeing Results * ²	11 7.59
I04. Universities in International Research Rankings * ¹ ...	39 0.0000000	I12. Ecological Footprint * ⁶	9 0.95
I05. Education Index * ²	90 0.492	I13. Global Innovation Index * ²	95 24.15
I06. Healthy Life Expectancy * ³	88 56.9	I14. Ease of Doing Business Results * ⁷	106 45.10
I07. At Birth Mortality Rate * ⁴	89 35.9	I15. World Happiness Index * ²	106 3.64
I08. Global Competitiveness Index * ²	103 3.33	I16. Unemployment Rate * ⁴	9 2.74

*¹ per 1,000 inhabitants; *² score; *³ age; *⁴ percentage; *⁵ US dollars; *⁶ gha pc; *⁷ distance to frontier

MALAWI



Population (2016): 18 091.575

OWSQ 2017

Rank 104

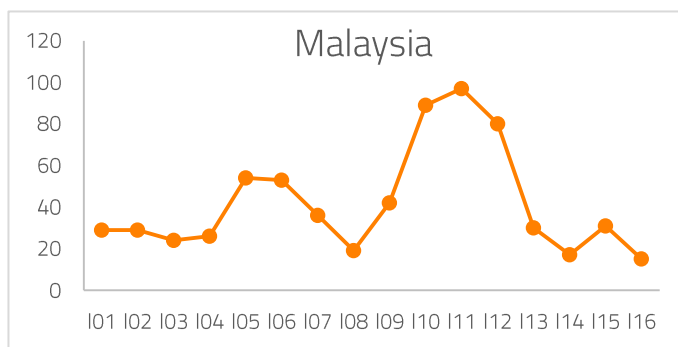
Score: 76.424

Quality group: **BEGINNING**

	Rank	Value		Rank	Value
I01. ISO 9001 Certified Organizations * ¹	104	0.00094	I09. Gross Domestic Product * ⁵	109	300.31
I02. International Academy for Quality Members * ¹	29	0.0000000	I10. Gini Index * ⁴	88	46.12
I03. Indexed Quality Papers Published * ¹	70	0.00326	I11. Environmental Wellbeing Results * ²	6	7.77
I04. Universities in International Research Rankings * ¹ ...	39	0.0000000	I12. Ecological Footprint * ⁶	4	0.82
I05. Education Index * ²	98	0.445	I13. Global Innovation Index * ²	99	23.45
I06. Healthy Life Expectancy * ³	103	51.2	I14. Ease of Doing Business Results * ⁷	92	54.39
I07. At Birth Mortality Rate * ⁴	97	43.4	I15. World Happiness Index * ²	100	3.97
I08. Global Competitiveness Index * ²	107	3.08	I16. Unemployment Rate * ⁴	56	7.10

*¹ per 1,000 inhabitants; *² score; *³ age; *⁴ percentage; *⁵ US dollars; *⁶ gha pc; *⁷ distance to frontier

MALAYSIA



Population (2016): 31 187 265

OWSQ 2017

Rank 33

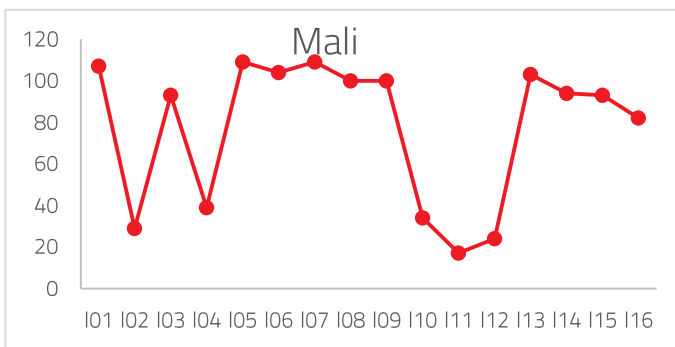
Score: 41.357

Quality group: **MODERATE**

	Rank	Value		Rank	Value
I01. ISO 9001 Certified Organizations * ¹	29	0.38359	I09. Gross Domestic Product * ⁵	42	9 508.24
I02. International Academy for Quality Members * ¹	29	0.0000000	I10. Gini Index * ⁴	89	46.26
I03. Indexed Quality Papers Published * ¹	24	0.07202	I11. Environmental Wellbeing Results * ²	97	3.47
I04. Universities in International Research Rankings * ¹ ...	26	0.0000962	I12. Ecological Footprint * ⁶	80	4.21
I05. Education Index * ²	54	0.700	I13. Global Innovation Index * ²	30	42.72
I06. Healthy Life Expectancy * ³	53	66.5	I14. Ease of Doing Business Results * ⁷	17	78.11
I07. At Birth Mortality Rate * ⁴	36	6.0	I15. World Happiness Index * ²	31	6.08
I08. Global Competitiveness Index * ²	19	5.16	I16. Unemployment Rate * ⁴	15	3.59

*¹ per 1,000 inhabitants; *² score; *³ age; *⁴ percentage; *⁵ US dollars; *⁶ gha pc; *⁷ distance to frontier

MALI



Population (2016): 17 994 837

OWSQ 2017

Rank 106

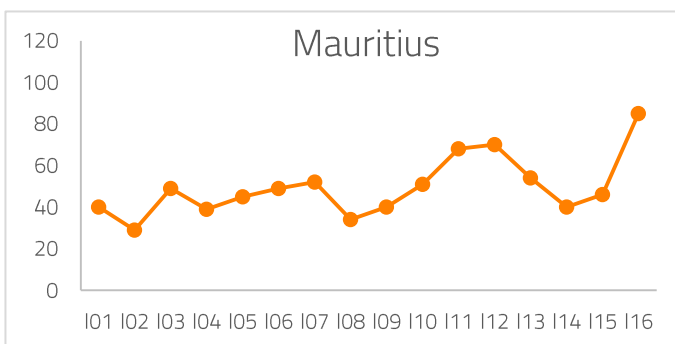
Score: 78.876

Quality group: **BEGINNING**

	Rank	Value		Rank	Value
I01. ISO 9001 Certified Organizations * ¹	107	0.00033	I09. Gross Domestic Product * ⁵	100	779.94
I02. International Academy for Quality Members * ¹	29	0.0000000	I10. Gini Index * ⁴	34	33.04
I03. Indexed Quality Papers Published * ¹	93	0.00106	I11. Environmental Wellbeing Results * ²	17	7.13
I04. Universities in International Research Rankings * ¹	39	0.0000000	I12. Ecological Footprint * ⁶	24	1.30
I05. Education Index * ²	109	0.312	I13. Global Innovation Index * ²	103	22.48
I06. Healthy Life Expectancy * ³	104	51.1	I14. Ease of Doing Business Results * ⁷	94	52.96
I07. At Birth Mortality Rate * ⁴	109	74.5	I15. World Happiness Index * ²	93	4.19
I08. Global Competitiveness Index * ²	100	3.46	I16. Unemployment Rate * ⁴	82	11.38

*¹ per 1,000 inhabitants; *² score; *³ age; *⁴ percentage; *⁵ US dollars; *⁶ gha pc; *⁷ distance to frontier

MAURITIUS



Population (2016): 1 263 473

OWSQ 2017

Rank 46

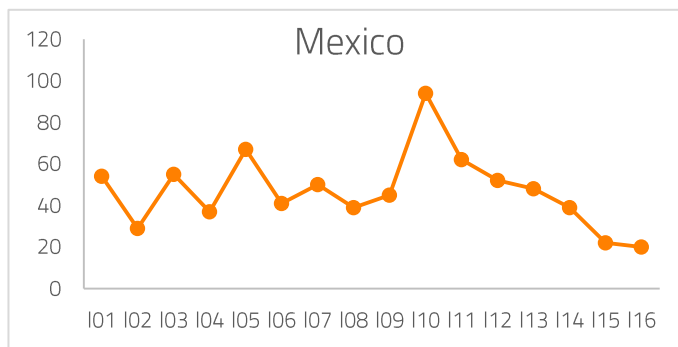
Score: 49.721

Quality group: **MODERATE**

	Rank	Value		Rank	Value
I01. ISO 9001 Certified Organizations * ¹	40	0.18916	I09. Gross Domestic Product * ⁵	40	9 630.94
I02. International Academy for Quality Members * ¹	29	0.0000000	I10. Gini Index * ⁴	51	35.84
I03. Indexed Quality Papers Published * ¹	49	0.00950	I11. Environmental Wellbeing Results * ²	68	4.76
I04. Universities in International Research Rankings * ¹	39	0.0000000	I12. Ecological Footprint * ⁶	70	3.33
I05. Education Index * ²	45	0.725	I13. Global Innovation Index * ²	54	34.82
I06. Healthy Life Expectancy * ³	49	66.8	I14. Ease of Doing Business Results * ⁷	40	72.27
I07. At Birth Mortality Rate * ⁴	52	11.8	I15. World Happiness Index * ²	46	5.63
I08. Global Competitiveness Index * ²	34	4.49	I16. Unemployment Rate * ⁴	85	11.54

*¹ per 1,000 inhabitants; *² score; *³ age; *⁴ percentage; *⁵ US dollars; *⁶ gha pc; *⁷ distance to frontier

MEXICO



Population (2016): 127 540 423

OWSQ 2017

Rank 41

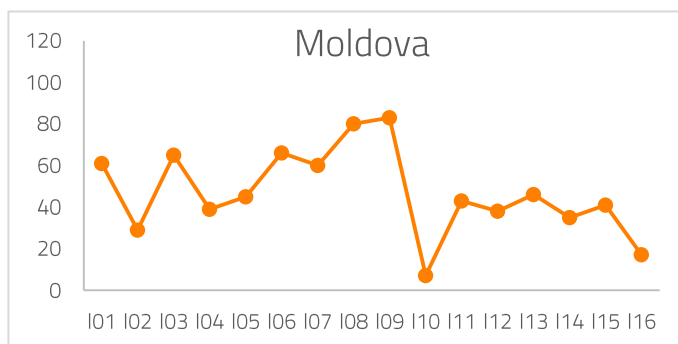
Score: 46.529

Quality group: MODERATE

	Rank	Value		Rank	Value
I01. ISO 9001 Certified Organizations * ¹	54	0.05816	I09. Gross Domestic Product * ⁵	45	8 208.56
I02. International Academy for Quality Members * ¹	29	0.0000000	I10. Gini Index * ⁴	94	48.21
I03. Indexed Quality Papers Published * ¹	55	0.00600	I11. Environmental Wellbeing Results * ²	62	4.89
I04. Universities in International Research Rankings * ¹ ...	37	0.0000078	I12. Ecological Footprint * ⁶	52	2.56
I05. Education Index * ²	67	0.655	I13. Global Innovation Index * ²	48	35.79
I06. Healthy Life Expectancy * ³	41	67.4	I14. Ease of Doing Business Results * ⁷	39	72.29
I07. At Birth Mortality Rate * ⁴	50	11.3	I15. World Happiness Index * ²	22	6.58
I08. Global Competitiveness Index * ²	39	4.41	I16. Unemployment Rate * ⁴	20	4.24

*¹ per 1,000 inhabitants; *² score; *³ age; *⁴ percentage; *⁵ US dollars; *⁶ gha pc; *⁷ distance to frontier

MOLDOVA



Population (2016): 3 552 000

OWSQ 2017

Rank 43

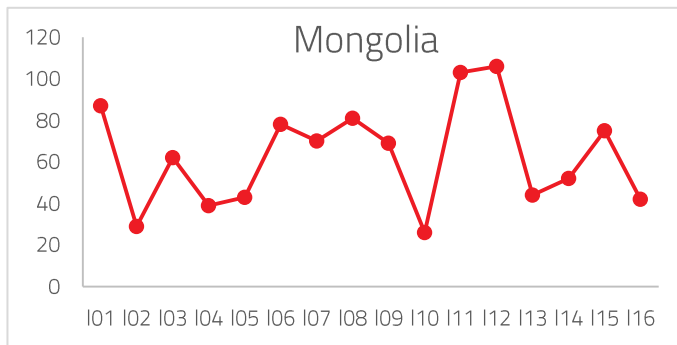
Score: 47.676

Quality group: MODERATE

	Rank	Value		Rank	Value
I01. ISO 9001 Certified Organizations * ¹	61	0.03660	I09. Gross Domestic Product * ⁵	83	1 900.20
I02. International Academy for Quality Members * ¹	29	0.0000000	I10. Gini Index * ⁴	7	26.83
I03. Indexed Quality Papers Published * ¹	65	0.00394	I11. Environmental Wellbeing Results * ²	43	5.42
I04. Universities in International Research Rankings * ¹ ...	39	0.0000000	I12. Ecological Footprint * ⁶	38	1.74
I05. Education Index * ²	45	0.725	I13. Global Innovation Index * ²	46	36.84
I06. Healthy Life Expectancy * ³	66	64.9	I14. Ease of Doing Business Results * ⁷	35	72.75
I07. At Birth Mortality Rate * ⁴	60	13.6	I15. World Happiness Index * ²	41	5.84
I08. Global Competitiveness Index * ²	80	3.86	I16. Unemployment Rate * ⁴	17	3.78

*¹ per 1,000 inhabitants; *² score; *³ age; *⁴ percentage; *⁵ US dollars; *⁶ gha pc; *⁷ distance to frontier

MONGOLIA



Population (2016):3 027 398

OWSQ 2017

Rank 74

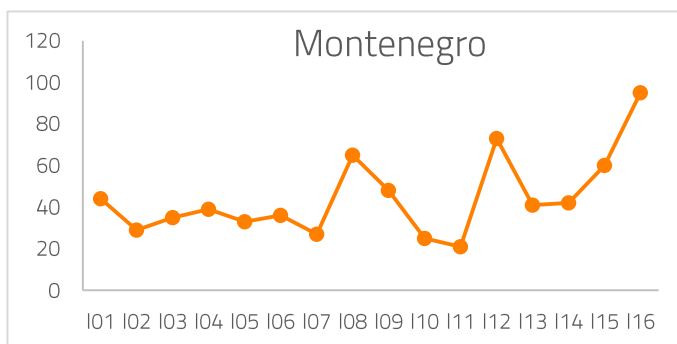
Score: 63.682

Quality group: **BEGINNING**

	Rank	Value		Rank	Value
I01. ISO 9001 Certified Organizations * ¹	87	0.00595	I09. Gross Domestic Product * ⁵	69	3 694.08
I02. International Academy for Quality Members * ¹	29	0.0000000	I10. Gini Index * ⁴	26	32.04
I03. Indexed Quality Papers Published * ¹	62	0.00429	I11. Environmental Wellbeing Results * ²	103	2.94
I04. Universities in International Research Rankings * ¹ ...	39	0.0000000	I12. Ecological Footprint * ⁶	106	7.48
I05. Education Index * ²	43	0.737	I13. Global Innovation Index * ²	44	37.13
I06. Healthy Life Expectancy * ³	78	62.1	I14. Ease of Doing Business Results * ⁷	52	68.15
I07. At Birth Mortality Rate * ⁴	70	19.0	I15. World Happiness Index * ²	75	4.95
I08. Global Competitiveness Index * ²	81	3.84	I16. Unemployment Rate * ⁴	42	6.09

*¹ per 1,000 inhabitants; *² score; *³ age; *⁴ percentage; *⁵ US dollars; *⁶ gha pc; *⁷ distance to frontier

MONTENEGRO



Population (2016): 622 781

OWSQ 2017

Rank 39

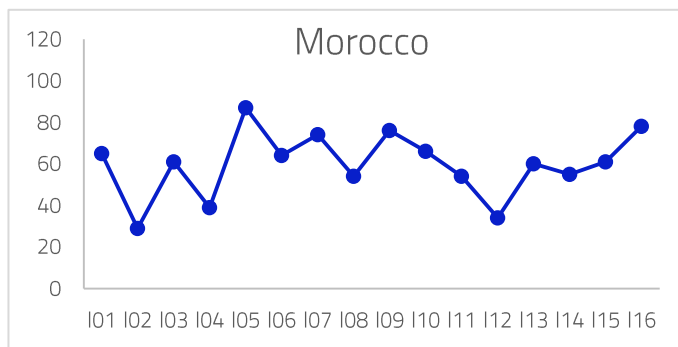
Score: 45.401

Quality group: **MODERATE**

	Rank	Value		Rank	Value
I01. ISO 9001 Certified Organizations * ¹	44	0.13488	I09. Gross Domestic Product * ⁵	48	7 023.54
I02. International Academy for Quality Members * ¹	29	0.0000000	I10. Gini Index * ⁴	25	31.93
I03. Indexed Quality Papers Published * ¹	35	0.02890	I11. Environmental Wellbeing Results * ²	21	6.74
I04. Universities in International Research Rankings * ¹ ...	39	0.0000000	I12. Ecological Footprint * ⁶	73	3.64
I05. Education Index * ²	33	0.797	I13. Global Innovation Index * ²	41	38.07
I06. Healthy Life Expectancy * ³	36	67.9	I14. Ease of Doing Business Results * ⁷	42	72.08
I07. At Birth Mortality Rate * ⁴	27	4.3	I15. World Happiness Index * ²	60	5.24
I08. Global Competitiveness Index * ²	65	4.05	I16. Unemployment Rate * ⁴	95	17.14

*¹ per 1,000 inhabitants; *² score; *³ age; *⁴ percentage; *⁵ US dollars; *⁶ gha pc; *⁷ distance to frontier

MOROCCO



Population (2016):35 276 786

OWSQ 2017

Rank 70

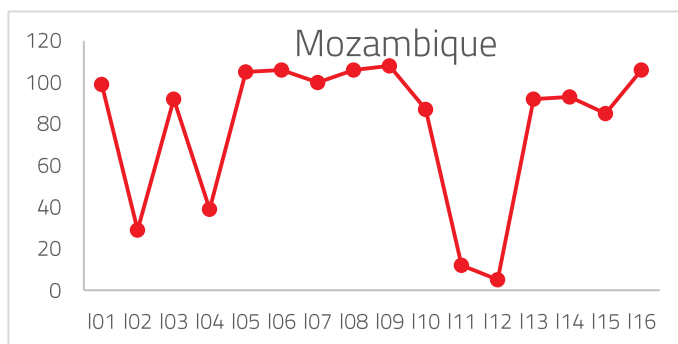
Score: 60.273

Quality group: **LAGGING**

	Rank	Value		Rank	Value
I01. ISO 9001 Certified Organizations * ¹	65	0.02747	I09. Gross Domestic Product * ⁵	76	2 832.43
I02. International Academy for Quality Members * ¹	29	0.0000000	I10. Gini Index * ⁴	66	40.72
I03. Indexed Quality Papers Published * ¹	61	0.00434	I11. Environmental Wellbeing Results * ²	54	5.14
I04. Universities in International Research Rankings * ¹ ...	39	0.0000000	I12. Ecological Footprint * ⁶	34	1.70
I05. Education Index * ²	87	0.503	I13. Global Innovation Index * ²	60	32.72
I06. Healthy Life Expectancy * ³	64	65.1	I14. Ease of Doing Business Results * ⁷	55	67.50
I07. At Birth Mortality Rate * ⁴	74	23.7	I15. World Happiness Index * ²	61	5.24
I08. Global Competitiveness Index * ²	54	4.20	I16. Unemployment Rate * ⁴	78	10.63

*¹ per 1,000 inhabitants; *² score; *³ age; *⁴ percentage; *⁵ US dollars; *⁶ gha pc; *⁷ distance to frontier

MOZAMBIQUE



Population (2016):28 829 476

OWSQ 2017

Rank 110

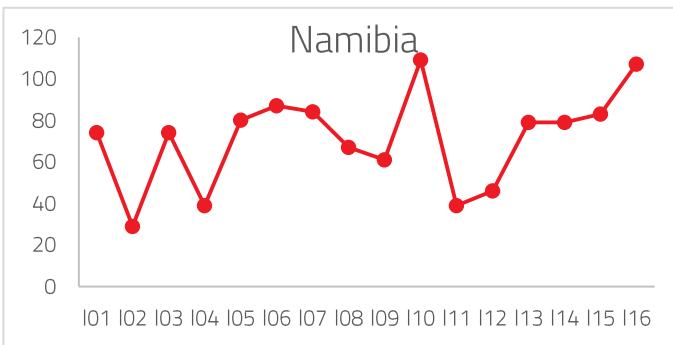
Score: 80.254

Quality group: **BEGINNING**

	Rank	Value		Rank	Value
I01. ISO 9001 Certified Organizations * ¹	99	0.00198	I09. Gross Domestic Product * ⁵	108	382.07
I02. International Academy for Quality Members * ¹	29	0.0000000	I10. Gini Index * ⁴	87	45.58
I03. Indexed Quality Papers Published * ¹	92	0.00114	I11. Environmental Wellbeing Results * ²	12	7.55
I04. Universities in International Research Rankings * ¹ ...	39	0.0000000	I12. Ecological Footprint * ⁶	5	0.84
I05. Education Index * ²	105	0.369	I13. Global Innovation Index * ²	92	24.55
I06. Healthy Life Expectancy * ³	106	49.6	I14. Ease of Doing Business Results * ⁷	93	53.78
I07. At Birth Mortality Rate * ⁴	100	56.7	I15. World Happiness Index * ²	85	4.55
I08. Global Competitiveness Index * ²	106	3.13	I16. Unemployment Rate * ⁴	106	26.16

*¹ per 1,000 inhabitants; *² score; *³ age; *⁴ percentage; *⁵ US dollars; *⁶ gha pc; *⁷ distance to frontier

NAMIBIA



Population (2016):2 479 713

OWSQ 2017

Rank 93

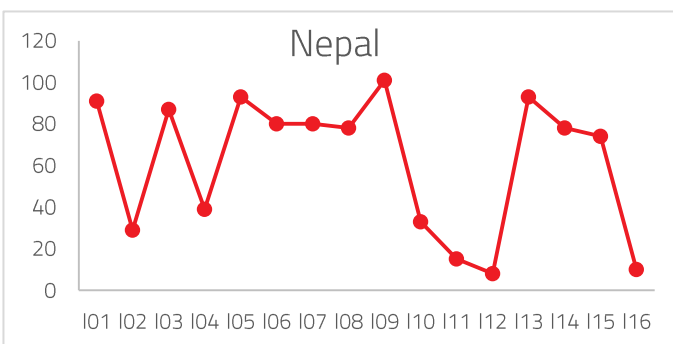
Score: 71.0901

Quality group: **BEGINNING**

	Rank	Value		Rank	Value
I01. ISO 9001 Certified Organizations * ¹	74	0.01815	I09. Gross Domestic Product * ⁵	61	4 414.98
I02. International Academy for Quality Members * ¹	29	0.0000000	I10. Gini Index * ⁴	109	60.97
I03. Indexed Quality Papers Published * ¹	74	0.00242	I11. Environmental Wellbeing Results * ²	39	5.58
I04. Universities in International Research Rankings * ¹ ...	39	0.0000000	I12. Ecological Footprint * ⁶	46	2.11
I05. Education Index * ²	80	0.546	I13. Global Innovation Index * ²	79	27.94
I06. Healthy Life Expectancy * ³	87	57.5	I14. Ease of Doing Business Results * ⁷	79	58.82
I07. At Birth Mortality Rate * ⁴	84	32.8	I15. World Happiness Index * ²	83	4.57
I08. Global Competitiveness Index * ²	67	4.02	I16. Unemployment Rate * ⁴	107	28.01

*¹ per 1,000 inhabitants; *² score; *³ age; *⁴ percentage; *⁵ US dollars; *⁶ gha pc; *⁷ distance to frontier

NEPAL



Population (2016):28 982 771

OWSQ 2017

Rank 72

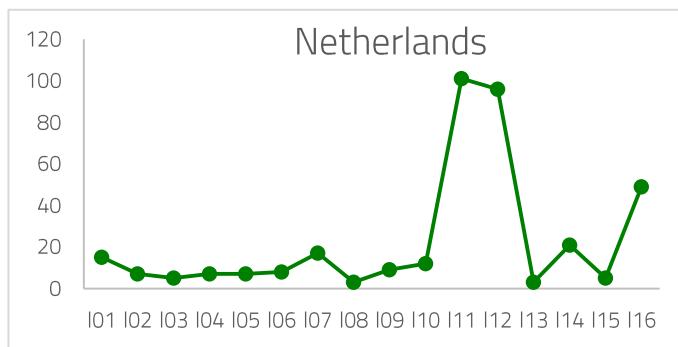
Score: 62.791

Quality group: **BEGINNING**

	Rank	Value		Rank	Value
I01. ISO 9001 Certified Organizations * ¹	91	0.00338	I09. Gross Domestic Product * ⁵	101	729.12
I02. International Academy for Quality Members * ¹	29	0.0000000	I10. Gini Index * ⁴	33	32.84
I03. Indexed Quality Papers Published * ¹	87	0.00152	I11. Environmental Wellbeing Results * ²	15	7.28
I04. Universities in International Research Rankings * ¹ ...	39	0.0000000	I12. Ecological Footprint * ⁶	8	0.93
I05. Education Index * ²	93	0.475	I13. Global Innovation Index * ²	93	24.20
I06. Healthy Life Expectancy * ³	80	61.2	I14. Ease of Doing Business Results * ⁷	78	58.88
I07. At Birth Mortality Rate * ⁴	80	29.4	I15. World Happiness Index * ²	74	4.96
I08. Global Competitiveness Index * ²	78	3.87	I16. Unemployment Rate * ⁴	10	2.83

*¹ per 1,000 inhabitants; *² score; *³ age; *⁴ percentage; *⁵ US dollars; *⁶ gha pc; *⁷ distance to frontier

NETHERLANDS



Population (2016): 17 018 408

OWSQ 2017

Rank 5

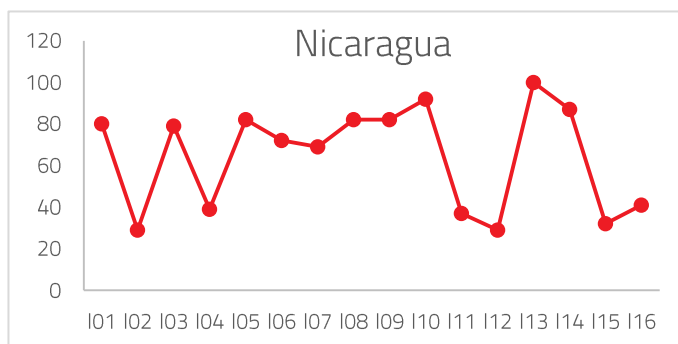
Score: 22.692

Quality group: **LEADING**

	Rank	Value		Rank	Value
I01. ISO 9001 Certified Organizations * ¹	15	0.60999	I09. Gross Domestic Product * ⁵	9	45 669.81
I02. International Academy for Quality Members * ¹	7	0.0001763	I10. Gini Index * ⁴	12	27.99
I03. Indexed Quality Papers Published * ¹	5	0.17916	I11. Environmental Wellbeing Results * ²	101	3.15
I04. Universities in International Research Rankings * ¹	7	0.0007051	I12. Ecological Footprint * ⁶	96	5.80
I05. Education Index * ²	7	0.897	I13. Global Innovation Index * ²	3	63.36
I06. Healthy Life Expectancy * ³	8	72.2	I14. Ease of Doing Business Results * ⁷	21	76.38
I07. At Birth Mortality Rate * ⁴	17	3.2	I15. World Happiness Index * ²	5	7.38
I08. Global Competitiveness Index * ²	3	5.57	I16. Unemployment Rate * ⁴	49	6.62

*¹ per 1,000 inhabitants; *² score; *³ age; *⁴ percentage; *⁵ US dollars; *⁶ gha pc; *⁷ distance to frontier

NICARAGUA



Population (2016): 6 149 928

OWSQ 2017

Rank 77

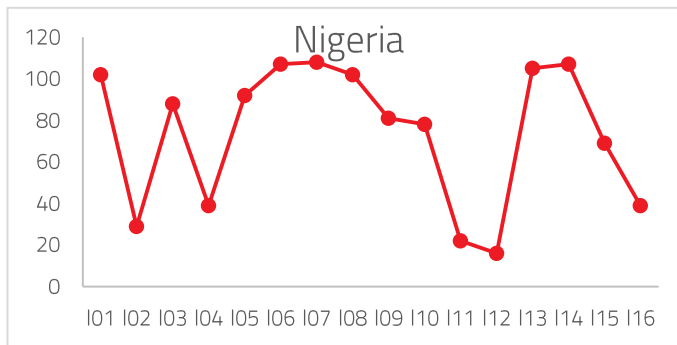
Score: 64.667

Quality group: **BEGINNING**

	Rank	Value		Rank	Value
I01. ISO 9001 Certified Organizations * ¹	80	0.00976	I09. Gross Domestic Product * ⁵	82	2 151.38
I02. International Academy for Quality Members * ¹	29	0.0000000	I10. Gini Index * ⁴	92	47.05
I03. Indexed Quality Papers Published * ¹	79	0.00179	I11. Environmental Wellbeing Results * ²	37	5.70
I04. Universities in International Research Rankings * ¹	39	0.0000000	I12. Ecological Footprint * ⁶	29	1.43
I05. Education Index * ²	82	0.542	I13. Global Innovation Index * ²	100	23.06
I06. Healthy Life Expectancy * ³	72	63.8	I14. Ease of Doing Business Results * ⁷	87	55.75
I07. At Birth Mortality Rate * ⁴	69	18.8	I15. World Happiness Index * ²	32	6.07
I08. Global Competitiveness Index * ²	82	3.81	I16. Unemployment Rate * ⁴	41	6.02

*¹ per 1,000 inhabitants; *² score; *³ age; *⁴ percentage; *⁵ US dollars; *⁶ gha pc; *⁷ distance to frontier

NIGERIA



Population (2016): 185 989 640

OWSQ 2017

Rank 102

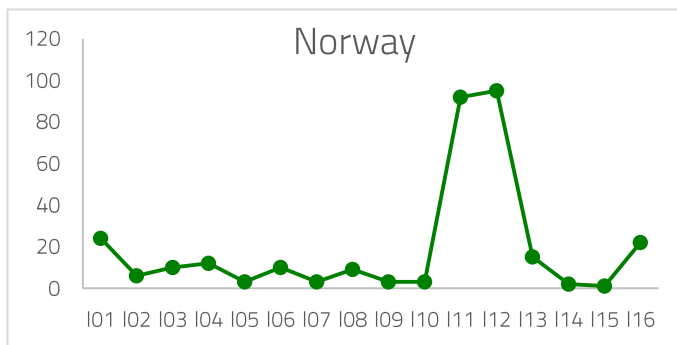
Score: 74.930

Quality group: **BEGINNING**

	Rank	Value		Rank	Value
I01. ISO 9001 Certified Organizations * ¹	102	0.00109	I09. Gross Domestic Product * ⁵	81	2 175.67
I02. International Academy for Quality Members * ¹	29	0.0000000	I10. Gini Index * ⁴	78	42.97
I03. Indexed Quality Papers Published * ¹²⁹	88	0.00132	I11. Environmental Wellbeing Results * ²	22	6.69
I04. Universities in International Research Rankings * ¹	39	0.0000000	I12. Ecological Footprint * ⁶	16	1.07
I05. Education Index * ²	92	0.477	I13. Global Innovation Index * ²	105	21.92
I06. Healthy Life Expectancy * ³	107	47.7	I14. Ease of Doing Business Results * ⁷	107	44.63
I07. At Birth Mortality Rate * ⁴	108	69.4	I15. World Happiness Index * ²	69	5.07
I08. Global Competitiveness Index * ²	102	3.39	I16. Unemployment Rate * ⁴	39	5.81

*¹ per 1,000 inhabitants; *² score; *³ age; *⁴ percentage; *⁵ US dollars; *⁶ gha pc; *⁷ distance to frontier

NORWAY



Population (2016): 5 232 929

OWSQ 2017

Rank 2

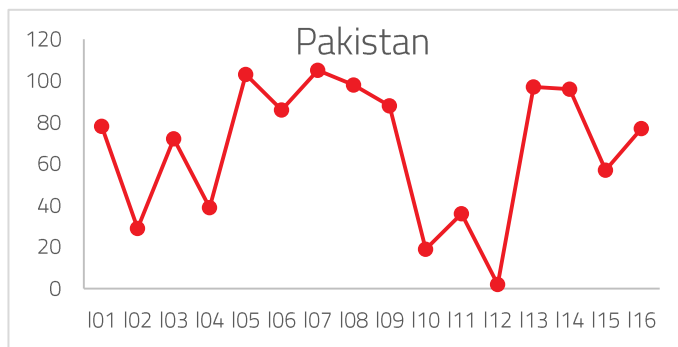
Score: 19.168

Quality group: **LEADING**

	Rank	Value		Rank	Value
I01. ISO 9001 Certified Organizations * ¹	24	0.47144	I09. Gross Domestic Product * ⁵	3	70 911.76
I02. International Academy for Quality Members * ¹⁶	6	0.0001911	I10. Gini Index * ⁴	3	25.9
I03. Indexed Quality Papers Published * ¹	10	0.16511	I11. Environmental Wellbeing Results * ²	92	3.67
I04. Universities in International Research Rankings * ¹	12	0.0005733	I12. Ecological Footprint * ⁶	95	5.76
I05. Education Index * ²	3	0.916	I13. Global Innovation Index * ²	15	53.14
I06. Healthy Life Expectancy * ³	10	72.0	I14. Ease of Doing Business Results * ⁷	2	82.82
I07. At Birth Mortality Rate * ⁴	3	2.0	I15. World Happiness Index * ²	1	7.54
I08. Global Competitiveness Index * ²	9	5.44	I16. Unemployment Rate * ⁴	22	4.47

*¹ per 1,000 inhabitants; *² score; *³ age; *⁴ percentage; *⁵ US dollars; *⁶ gha pc; *⁷ distance to frontier

PAKISTAN



Population (2016): 193 203 476

OWSQ 2017

Rank 87

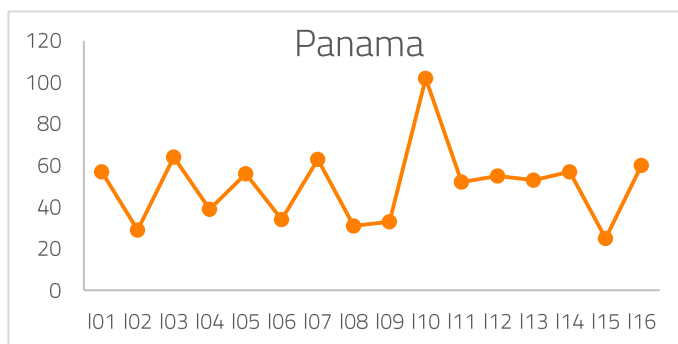
Score: 68.747

Quality group: **BEGINNING**

	Rank	Value		Rank	Value
I01. ISO 9001 Certified Organizations * ¹	78	0.01288	I09. Gross Domestic Product * ⁵	88	1 443.63
I02. International Academy for Quality Members * ¹	29	0.0000000	I10. Gini Index * ⁴	19	30.69
I03. Indexed Quality Papers Published * ¹	72	0.00286	I11. Environmental Wellbeing Results * ²	36	5.71
I04. Universities in International Research Rankings * ¹ ...	39	0.0000000	I12. Ecological Footprint * ⁶	2	0.73
I05. Education Index * ²	103	0.395	I13. Global Innovation Index * ²	97	23.80
I06. Healthy Life Expectancy * ³	86	57.8	I14. Ease of Doing Business Results * ⁷	96	51.77
I07. At Birth Mortality Rate * ⁴	105	65.8	I15. World Happiness Index * ²	57	5.27
I08. Global Competitiveness Index * ²	98	3.49	I16. Unemployment Rate * ⁴	77	10.55

*¹ per 1,000 inhabitants; *² score; *³ age; *⁴ percentage; *⁵ US dollars; *⁶ gha pc; *⁷ distance to frontier

PANAMA



Population (2016): 4 034 119

OWSQ 2017

Rank 47

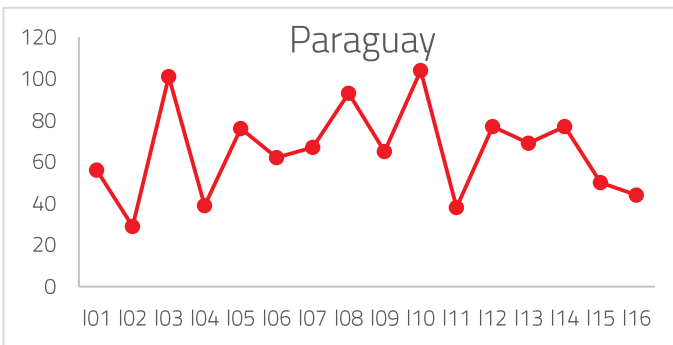
Score: 50.197

Quality group: **MODERATE**

	Rank	Value		Rank	Value
I01. ISO 9001 Certified Organizations * ¹	57	0.04883	I09. Gross Domestic Product * ⁵	33	13 680.24
I02. International Academy for Quality Members * ¹	29	0.0000000	I10. Gini Index * ⁴	102	50.7
I03. Indexed Quality Papers Published * ¹	64	0.00397	I11. Environmental Wellbeing Results * ²	52	5.18
I04. Universities in International Research Rankings * ¹ ...	39	0.0000000	I12. Ecological Footprint * ⁶	55	2.81
I05. Education Index * ²	56	0.691	I13. Global Innovation Index * ²	53	34.98
I06. Healthy Life Expectancy * ³	34	68.1	I14. Ease of Doing Business Results * ⁷	57	66.19
I07. At Birth Mortality Rate * ⁴	63	14.6	I15. World Happiness Index * ²	25	6.45
I08. Global Competitiveness Index * ²	31	4.51	I16. Unemployment Rate * ⁴	60	7.63

*¹ per 1,000 inhabitants; *² score; *³ age; *⁴ percentage; *⁵ US dollars; *⁶ gha pc; *⁷ distance to frontier

PARAGUAY



Population (2016):6 725 308

OWSQ 2017

Rank 79

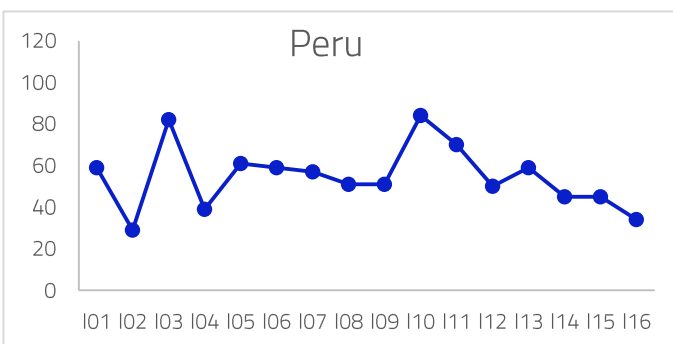
Score: 65.712

Quality group: **BEGINNING**

	Rank	Value		Rank	Value
I01. ISO 9001 Certified Organizations * ¹	56	0.05011	I09. Gross Domestic Product * ⁵	65	4 077.74
I02. International Academy for Quality Members * ¹	29	0.0000000	I10. Gini Index * ⁴	104	51.67
I03. Indexed Quality Papers Published * ¹	101	0.00089	I11. Environmental Wellbeing Results * ²	38	5.68
I04. Universities in International Research Rankings * ¹	39	0.0000000	I12. Ecological Footprint * ⁶	77	4.01
I05. Education Index * ²	76	0.613	I13. Global Innovation Index * ²	69	30.30
I06. Healthy Life Expectancy * ³	62	65.2	I14. Ease of Doing Business Results * ⁷	77	59.03
I07. At Birth Mortality Rate * ⁴	67	17.5	I15. World Happiness Index * ²	50	5.49
I08. Global Competitiveness Index * ²	93	3.65	I16. Unemployment Rate * ⁴	44	6.18

*¹ per 1,000 inhabitants; *² score; *³ age; *⁴ percentage; *⁵ US dollars; *⁶ gha pc; *⁷ distance to frontier

PERU



Population (2016):31 773 839

OWSQ 2017

Rank 55

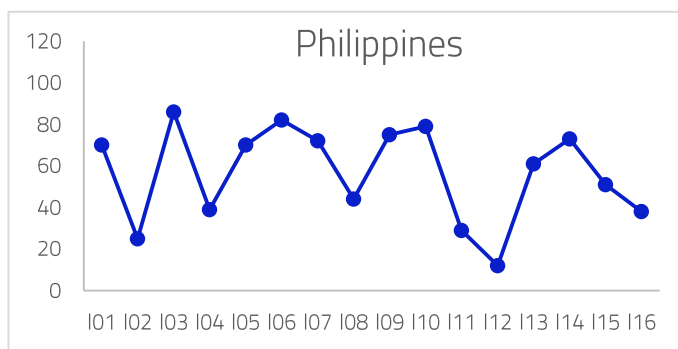
Score: 54.652

Quality group: **LAGGING**

	Rank	Value		Rank	Value
I01. ISO 9001 Certified Organizations * ¹	59	0.04063	I09. Gross Domestic Product * ⁵	51	6 049.23
I02. International Academy for Quality Members * ¹	29	0.0000000	I10. Gini Index * ⁴	84	44.14
I03. Indexed Quality Papers Published * ¹	82	0.00173	I11. Environmental Wellbeing Results * ²	70	4.65
I04. Universities in International Research Rankings * ¹	39	0.0000000	I12. Ecological Footprint * ⁶	50	2.34
I05. Education Index * ²	61	0.672	I13. Global Innovation Index * ²	59	32.90
I06. Healthy Life Expectancy * ³	59	65.7	I14. Ease of Doing Business Results * ⁷	45	70.25
I07. At Birth Mortality Rate * ⁴	57	13.1	I15. World Happiness Index * ²	45	5.72
I08. Global Competitiveness Index * ²	51	4.23	I16. Unemployment Rate * ⁴	34	5.56

*¹ per 1,000 inhabitants; *² score; *³ age; *⁴ percentage; *⁵ US dollars; *⁶ gha pc; *⁷ distance to frontier

PHILIPPINES



Population (2016): 103 320 222

OWSQ 2017

Rank 58

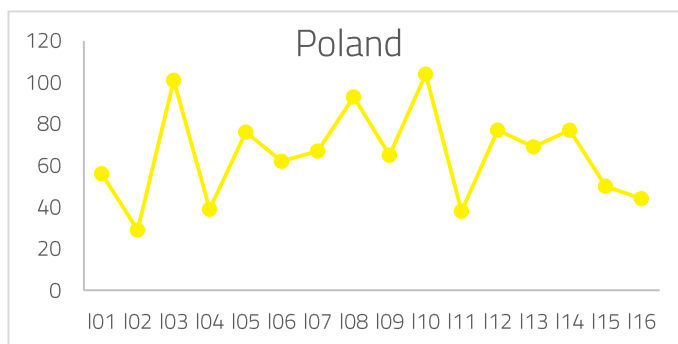
Score: 56.947

Quality group: **LAGGING**

	Rank	Value		Rank	Value
I01. ISO 9001 Certified Organizations * ¹	70	0.02129	I09. Gross Domestic Product * ⁵	75	2 951.07
I02. International Academy for Quality Members * ¹	25	0.0000097	I10. Gini Index * ⁴	79	43.04
I03. Indexed Quality Papers Published * ¹	86	0.00155	I11. Environmental Wellbeing Results * ²	29	6.26
I04. Universities in International Research Rankings * ¹ ...	39	0.0000000	I12. Ecological Footprint * ⁶	12	1.01
I05. Education Index * ²	70	0.637	I13. Global Innovation Index * ²	61	32.48
I06. Healthy Life Expectancy * ³	82	61.1	I14. Ease of Doing Business Results * ⁷	73	60.40
I07. At Birth Mortality Rate * ⁴	72	22.2	I15. World Happiness Index * ²	51	5.43
I08. Global Competitiveness Index * ²	44	4.36	I16. Unemployment Rate * ⁴	38	5.80

*¹ per 1,000 inhabitants; *² score; *³ age; *⁴ percentage; *⁵ US dollars; *⁶ gha pc; *⁷ distance to frontier

POLAND



Population (2016): 37 948 016

OWSQ 2017

Rank 28

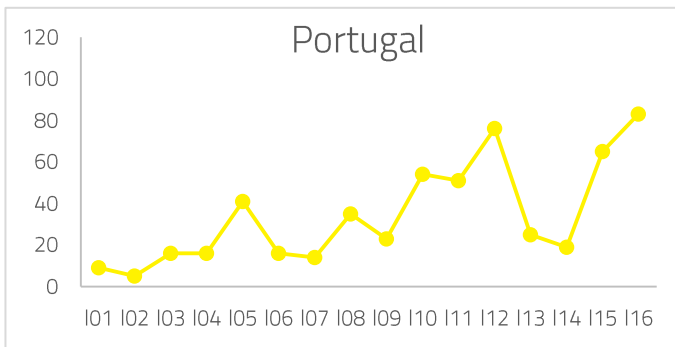
Score: 37.104

Quality group: **FOLLOWER**

	Rank	Value		Rank	Value
I01. ISO 9001 Certified Organizations * ¹	36	0.28146	I09. Gross Domestic Product * ⁵	36	12 421.32
I02. International Academy for Quality Members * ¹	29	0.0000000	I10. Gini Index * ⁴	27	32.08
I03. Indexed Quality Papers Published * ¹	37	0.02691	I11. Environmental Wellbeing Results * ²	81	4.24
I04. Universities in International Research Rankings * ¹ ...	30	0.0000527	I12. Ecological Footprint * ⁶	81	4.27
I05. Education Index * ²	17	0.852	I13. Global Innovation Index * ²	31	41.99
I06. Healthy Life Expectancy * ³	31	68.7	I14. Ease of Doing Business Results * ⁷	18	77.81
I07. At Birth Mortality Rate * ⁴	29	4.5	I15. World Happiness Index * ²	35	5.97
I08. Global Competitiveness Index * ²	27	4.56	I16. Unemployment Rate * ⁴	48	6.45

*¹ per 1,000 inhabitants; *² score; *³ age; *⁴ percentage; *⁵ US dollars; *⁶ gha pc; *⁷ distance to frontier

PORTUGAL



Population (2016): 10 324 611

OWSQ 2017

Rank 24

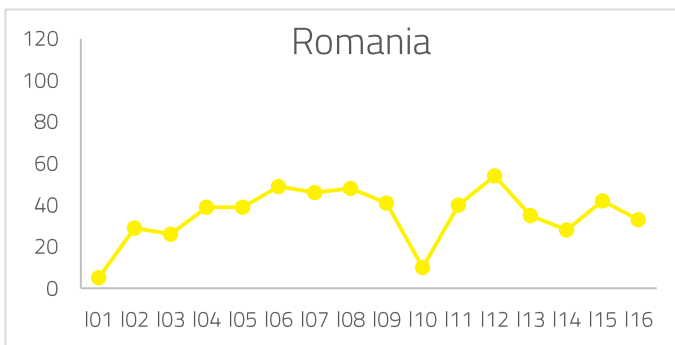
Score: 35.073

Quality group: **FOLLOWER**

Rank	Value	Rank	Value
I01. ISO 9001 Certified Organizations * ¹	9 0.72623	I09. Gross Domestic Product * ⁵	23 19 839.64
I02. International Academy for Quality Members * ¹	5 0.0002906	I10. Gini Index * ⁴	54 36.04
I03. Indexed Quality Papers Published * ¹	16 0.13327	I11. Environmental Wellbeing Results * ²	51 5.19
I04. Universities in International Research Rankings * ¹	16 0.0004843	I12. Ecological Footprint * ⁶	76 3.87
I05. Education Index * ²	41 0.756	I13. Global Innovation Index * ²	25 46.05
I06. Healthy Life Expectancy * ³	16 71.4	I14. Ease of Doing Business Results * ⁷	19 77.40
I07. At Birth Mortality Rate * ⁴	14 3.0	I15. World Happiness Index * ²	65 5.20
I08. Global Competitiveness Index * ²	35 4.48	I16. Unemployment Rate * ⁴	83 11.49

*¹ per 1,000 inhabitants; *² score; *³ age; *⁴ percentage; *⁵ US dollars; *⁶ gha pc; *⁷ distance to frontier

ROMANIA



Population (2016): 19 705 301

OWSQ 2017

Rank 25

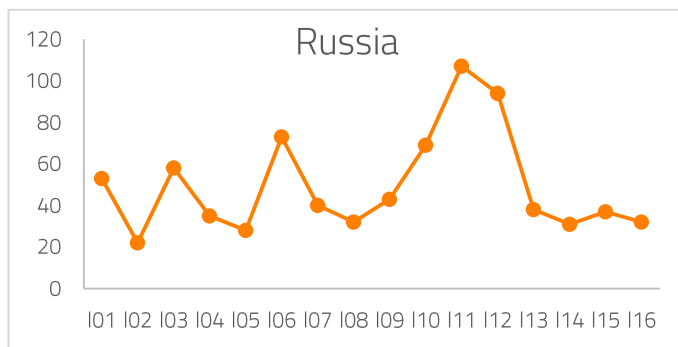
Score: 35.667

Quality group: **FOLLOWER**

Rank	Value	Rank	Value
I01. ISO 9001 Certified Organizations * ¹	5 1.04155	I09. Gross Domestic Product * ⁵	41 9 519.88
I02. International Academy for Quality Members * ¹	29 0.0000000	I10. Gini Index * ⁴	10 27.45
I03. Indexed Quality Papers Published * ¹	26 0.07029	I11. Environmental Wellbeing Results * ²	40 5.58
I04. Universities in International Research Rankings * ¹	39 0.0000000	I12. Ecological Footprint * ⁶	54 2.63
I05. Education Index * ²	39 0.769	I13. Global Innovation Index * ²	35 39.16
I06. Healthy Life Expectancy * ³	49 66.8	I14. Ease of Doing Business Results * ⁷	28 74.26
I07. At Birth Mortality Rate * ⁴	46 9.7	I15. World Happiness Index * ²	42 5.82
I08. Global Competitiveness Index * ²	48 4.30	I16. Unemployment Rate * ⁴	33 5.51

*¹ per 1,000 inhabitants; *² score; *³ age; *⁴ percentage; *⁵ US dollars; *⁶ gha pc; *⁷ distance to frontier

RUSSIA



Population (2016): 144 342 396

OWSQ 2017

Rank 45

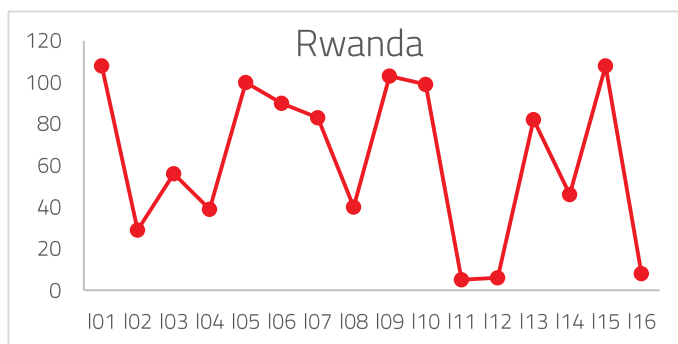
Score: 49.400

Quality group: MODERATE

	Rank	Value		Rank	Value
I01. ISO 9001 Certified Organizations * ¹	53	0.06293	I09. Gross Domestic Product * ⁵	43	8 748.36
I02. International Academy for Quality Members * ¹	22	0.0000208	I10. Gini Index * ⁴	69	41.59
I03. Indexed Quality Papers Published * ¹	58	0.00568	I11. Environmental Wellbeing Results * ²	107	2.46
I04. Universities in International Research Rankings * ¹	35	0.0000208	I12. Ecological Footprint * ⁶	94	5.72
I05. Education Index * ²	28	0.816	I13. Global Innovation Index * ²	38	38.76
I06. Healthy Life Expectancy * ³	73	63.4	I14. Ease of Doing Business Results * ⁷	31	73.19
I07. At Birth Mortality Rate * ⁴	40	8.2	I15. World Happiness Index * ²	37	5.96
I08. Global Competitiveness Index * ²	32	4.51	I16. Unemployment Rate * ⁴	32	5.47

*¹ per 1,000 inhabitants; *² score; *³ age; *⁴ percentage; *⁵ US dollars; *⁶ gha pc; *⁷ distance to frontier

RWANDA



Population (2016): 11 917 508

OWSQ 2017

Rank 73

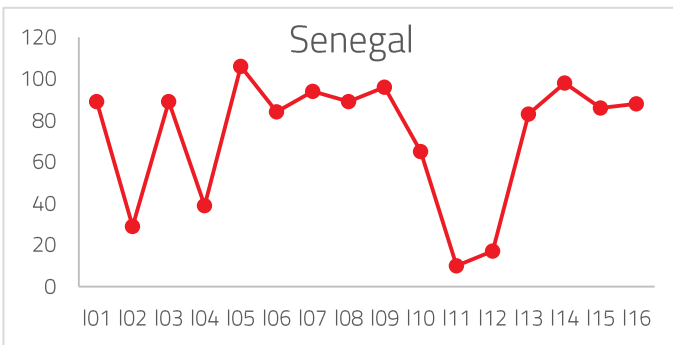
Score: 63.383

Quality group: BEGINNING

	Rank	Value		Rank	Value
I01. ISO 9001 Certified Organizations * ¹	108	0.00025	I09. Gross Domestic Product * ⁵	103	702.84
I02. International Academy for Quality Members * ¹	29	0.0000000	I10. Gini Index * ⁴	99	50.44
I03. Indexed Quality Papers Published * ¹	56	0.00596	I11. Environmental Wellbeing Results * ²	5	7.78
I04. Universities in International Research Rankings * ¹	39	0.0000000	I12. Ecological Footprint * ⁶	6	0.87
I05. Education Index * ²	100	0.426	I13. Global Innovation Index * ²	82	27.36
I06. Healthy Life Expectancy * ³	90	56.6	I14. Ease of Doing Business Results * ⁷	46	69.81
I07. At Birth Mortality Rate * ⁴	83	31.1	I15. World Happiness Index * ²	108	3.47
I08. Global Competitiveness Index * ²	40	4.41	I16. Unemployment Rate * ⁴	8	2.62

*¹ per 1,000 inhabitants; *² score; *³ age; *⁴ percentage; *⁵ US dollars; *⁶ gha pc; *⁷ distance to frontier

SENEGAL



Population (2016): 15 411 614

OWSQ 2017

Rank 98

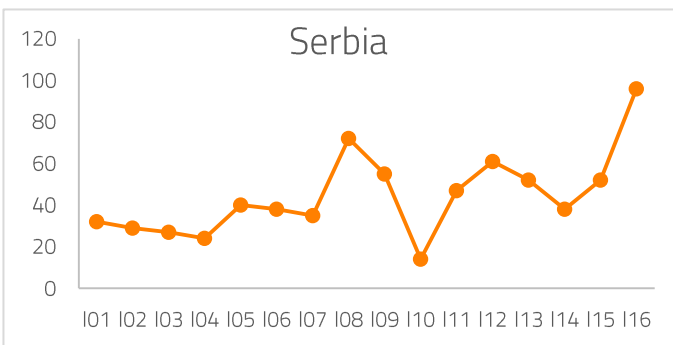
Score: 73.858

Quality group: **BEGINNING**

	Rank	Value		Rank	Value
I01. ISO 9001 Certified Organizations * ¹	89	0.00396	I09. Gross Domestic Product * ⁵	96	952.77
I02. International Academy for Quality Members * ¹	29	0.0000000	I10. Gini Index * ⁴	65	40.29
I03. Indexed Quality Papers Published * ¹	89	0.00130	I11. Environmental Wellbeing Results * ²	10	7.64
I04. Universities in International Research Rankings * ¹ ...	39	0.0000000	I12. Ecological Footprint * ⁶	17	1.11
I05. Education Index * ²	106	0.355	I13. Global Innovation Index * ²	83	27.11
I06. Healthy Life Expectancy * ³	84	58.3	I14. Ease of Doing Business Results * ⁷	98	50.68
I07. At Birth Mortality Rate * ⁴	94	41.7	I15. World Happiness Index * ²	86	4.53
I08. Global Competitiveness Index * ²	89	3.74	I16. Unemployment Rate * ⁴	88	12.53

*¹ per 1,000 inhabitants; *² score; *³ age; *⁴ percentage; *⁵ US dollars; *⁶ gha pc; *⁷ distance to frontier

SERBIA



Population (2016): 7 057 412

OWSQ 2017

Rank 38

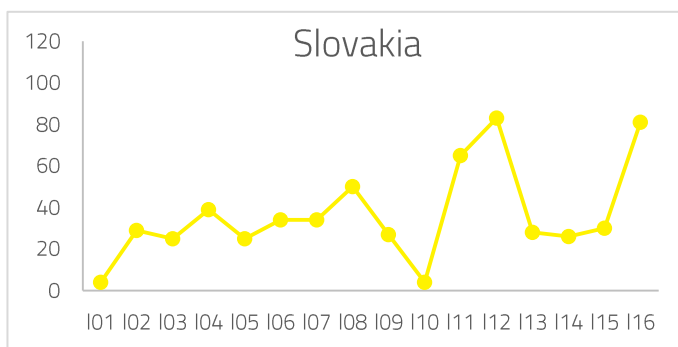
Score: 45.377

Quality group: **MODERATE**

	Rank	Value		Rank	Value
I01. ISO 9001 Certified Organizations * ¹	32	0.35594	I09. Gross Domestic Product * ⁵	55	5 426.90
I02. International Academy for Quality Members * ¹	29	0.0000000	I10. Gini Index * ⁴	14	29.06
I03. Indexed Quality Papers Published * ¹	27	0.06504	I11. Environmental Wellbeing Results * ²	47	5.22
I04. Universities in International Research Rankings * ¹ ...	24	0.0001417	I12. Ecological Footprint * ⁶	61	3.10
I05. Education Index * ²	40	0.760	I13. Global Innovation Index * ²	52	35.34
I06. Healthy Life Expectancy * ³	38	67.7	I14. Ease of Doing Business Results * ⁷	38	72.29
I07. At Birth Mortality Rate * ⁴	35	5.9	I15. World Happiness Index * ²	52	5.39
I08. Global Competitiveness Index * ²	72	3.97	I16. Unemployment Rate * ⁴	96	17.91

*¹ per 1,000 inhabitants; *² score; *³ age; *⁴ percentage; *⁵ US dollars; *⁶ gha pc; *⁷ distance to frontier

SLOVAKIA



Population (2016):5 428 704

OWSQ 2017

Rank 27

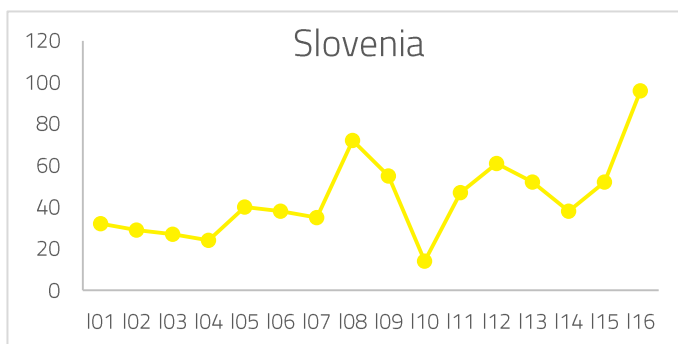
Score: 36.846

Quality group: FOLLOWER

	Rank	Value		Rank	Value
I01. ISO 9001 Certified Organizations * ¹	4	1.04684	I09. Gross Domestic Product * ⁵	27	16 535.92
I02. International Academy for Quality Members * ¹	29	0.0000000	I10. Gini Index * ⁴	4	26.12
I03. Indexed Quality Papers Published * ¹	25	0.07055	I11. Environmental Wellbeing Results * ²	65	4.86
I04. Universities in International Research Rankings * ¹	39	0.0000000	I12. Ecological Footprint * ⁶	83	4.44
I05. Education Index * ²	25	0.823	I13. Global Innovation Index * ²	28	43.43
I06. Healthy Life Expectancy * ³	34	68.1	I14. Ease of Doing Business Results * ⁷	26	75.61
I07. At Birth Mortality Rate * ⁴	34	5.8	I15. World Happiness Index * ²	30	6.10
I08. Global Competitiveness Index * ²	50	4.28	I16. Unemployment Rate * ⁴	81	11.23

*¹ per 1,000 inhabitants; *² score; *³ age; *⁴ percentage; *⁵ US dollars; *⁶ gha pc; *⁷ distance to frontier

SLOVENIA



Population (2016):2 064 845

OWSQ 2017

Rank 17

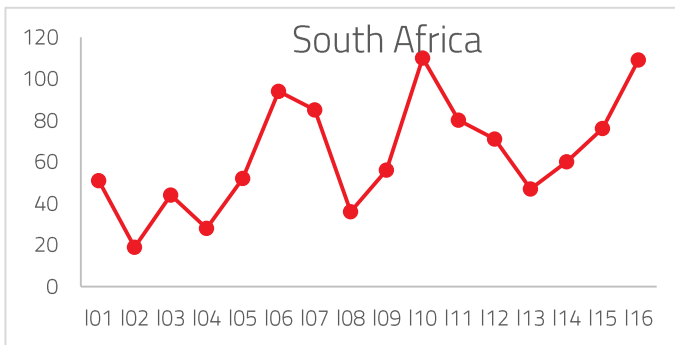
Score: 30.631

Quality group: FOLLOWER

	Rank	Value		Rank	Value
I01. ISO 9001 Certified Organizations * ¹	10	0.71725	I09. Gross Domestic Product * ⁵	22	21 652.28
I02. International Academy for Quality Members * ¹	29	0.0000000	I10. Gini Index * ⁴	2	25.59
I03. Indexed Quality Papers Published * ¹	8	0.17483	I11. Environmental Wellbeing Results * ²	64	4.88
I04. Universities in International Research Rankings * ¹	15	0.0004843	I12. Ecological Footprint * ⁶	86	4.70
I05. Education Index * ²	11	0.886	I13. Global Innovation Index * ²	26	45.80
I06. Healthy Life Expectancy * ³	21	71.1	I14. Ease of Doing Business Results * ⁷	23	76.14
I07. At Birth Mortality Rate * ⁴	5	2.1	I15. World Happiness Index * ²	44	5.76
I08. Global Competitiveness Index * ²	43	4.39	I16. Unemployment Rate * ⁴	72	9.56

*¹ per 1,000 inhabitants; *² score; *³ age; *⁴ percentage; *⁵ US dollars; *⁶ gha pc; *⁷ distance to frontier

SOUTH AFRICA



Population (2016):55 908 865

OWSQ 2017

Rank 75

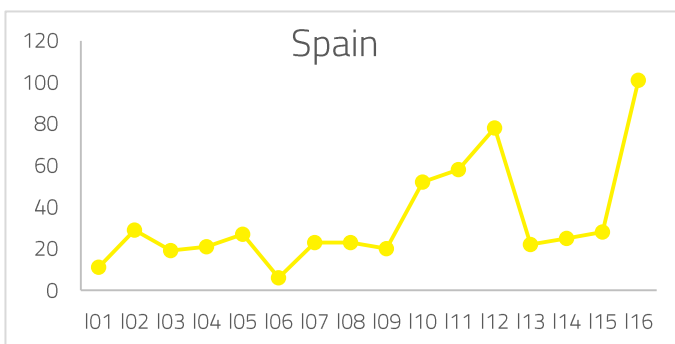
Score: 64.320

Quality group: **BEGINNING**

	Rank	Value		Rank	Value
I01. ISO 9001 Certified Organizations * ¹	51	0.07773	I09. Gross Domestic Product * ⁵	56	5 284.60
I02. International Academy for Quality Members * ¹	19	0.0000358	I10. Gini Index * ⁴	110	63.38
I03. Indexed Quality Papers Published * ¹	44	0.01558	I11. Environmental Wellbeing Results * ²	80	4.24
I04. Universities in International Research Rankings * ¹ ...	28	0.0000715	I12. Ecological Footprint * ⁶	71	3.37
I05. Education Index * ²	52	0.705	I13. Global Innovation Index * ²	47	35.80
I06. Healthy Life Expectancy * ³	94	54.4	I14. Ease of Doing Business Results * ⁷	60	65.20
I07. At Birth Mortality Rate * ⁴	85	33.6	I15. World Happiness Index * ²	76	4.83
I08. Global Competitiveness Index * ²	36	4.47	I16. Unemployment Rate * ⁴	109	28.53

*¹ per 1,000 inhabitants; *² score; *³ age; *⁴ percentage; *⁵ US dollars; *⁶ gha pc; *⁷ distance to frontier

SPAIN



Population (2016):46 443 959

OWSQ 2017

Rank 22

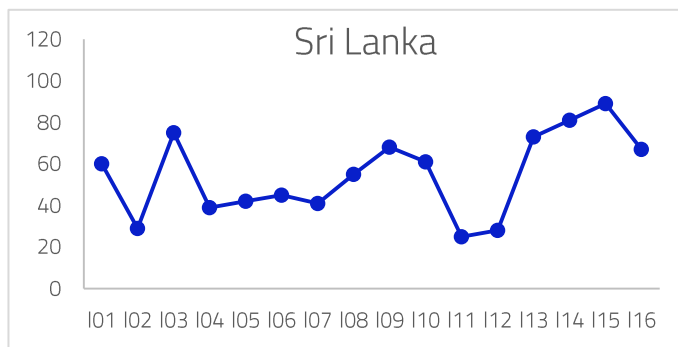
Score: 33.900

Quality group: **FOLLOWER**

	Rank	Value		Rank	Value
I01. ISO 9001 Certified Organizations * ¹	11	0.70472	I09. Gross Domestic Product * ⁵	20	26 639.74
I02. International Academy for Quality Members * ¹	29	0.0000000	I10. Gini Index * ⁴	52	35.89
I03. Indexed Quality Papers Published * ¹	19	0.09086	I11. Environmental Wellbeing Results * ²	58	5.02
I04. Universities in International Research Rankings * ¹ ...	21	0.0002584	I12. Ecological Footprint * ⁶	78	4.03
I05. Education Index * ²	27	0.818	I13. Global Innovation Index * ²	22	48.81
I06. Healthy Life Expectancy * ³	6	72.4	I14. Ease of Doing Business Results * ⁷	25	75.73
I07. At Birth Mortality Rate * ⁴	23	3.5	I15. World Happiness Index * ²	28	6.40
I08. Global Competitiveness Index * ²	23	4.68	I16. Unemployment Rate * ⁴	101	21.28

*¹ per 1,000 inhabitants; *² score; *³ age; *⁴ percentage; *⁵ US dollars; *⁶ gha pc; *⁷ distance to frontier

SRI LANKA



Population (2016):21 203 000

OWSQ 2017

Rank 56

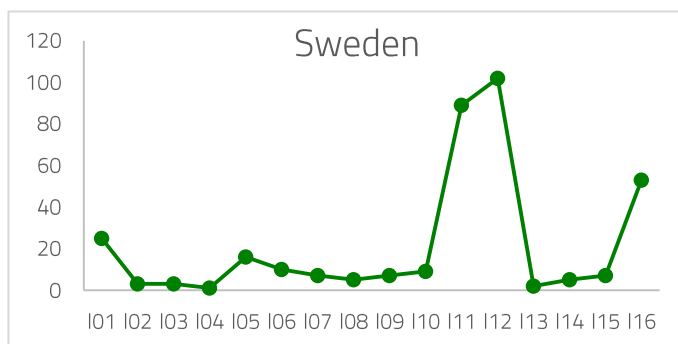
Score: 56.039

Quality group: **LAGGING**

	Rank	Value		Rank	Value
I01. ISO 9001 Certified Organizations * ¹	60	0.03778	I09. Gross Domestic Product * ⁵	68	3 835.39
I02. International Academy for Quality Members * ¹	29	0.0000000	I10. Gini Index * ⁴	61	39.16
I03. Indexed Quality Papers Published * ¹	75	0.00226	I11. Environmental Wellbeing Results * ²	25	6.40
I04. Universities in International Research Rankings * ¹	39	0.0000000	I12. Ecological Footprint * ⁶	28	1.43
I05. Education Index * ²	42	0.752	I13. Global Innovation Index * ²	73	29.85
I06. Healthy Life Expectancy * ³	45	67.0	I14. Ease of Doing Business Results * ⁷	81	58.79
I07. At Birth Mortality Rate * ⁴	41	8.4	I15. World Happiness Index * ²	89	4.44
I08. Global Competitiveness Index * ²	55	4.19	I16. Unemployment Rate * ⁴	67	8.52

*¹ per 1,000 inhabitants; *² score; *³ age; *⁴ percentage; *⁵ US dollars; *⁶ gha pc; *⁷ distance to frontier

SWEDEN



Population (2016):9 903 122

OWSQ 2017

Rank 3

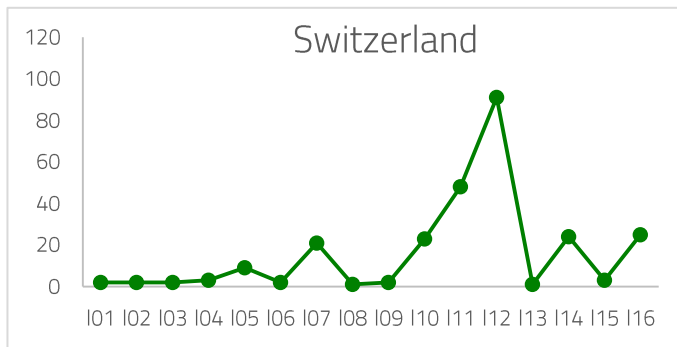
Score: 21.426

Quality group: **LEADING**

	Rank	Value		Rank	Value
I01. ISO 9001 Certified Organizations * ¹	25	0.43582	I09. Gross Domestic Product * ⁵	7	51 949.27
I02. International Academy for Quality Members * ¹	3	0.0004039	I10. Gini Index * ⁴	9	27.32
I03. Indexed Quality Papers Published * ¹	3	0.19307	I11. Environmental Wellbeing Results * ²	89	3.82
I04. Universities in International Research Rankings * ¹	1	0.0011108	I12. Ecological Footprint * ⁶	102	6.53
I05. Education Index * ²	16	0.855	I13. Global Innovation Index * ²	2	63.82
I06. Healthy Life Expectancy * ³	10	72.0	I14. Ease of Doing Business Results * ⁷	5	82.13
I07. At Birth Mortality Rate * ⁴	7	2.4	I15. World Happiness Index * ²	7	7.28
I08. Global Competitiveness Index * ²	5	5.53	I16. Unemployment Rate * ⁴	53	6.96

*¹ per 1,000 inhabitants; *² score; *³ age; *⁴ percentage; *⁵ US dollars; *⁶ gha pc; *⁷ distance to frontier

SWITZERLAND



Population (2016):8 372 098

OWSQ 2017

Rank 1

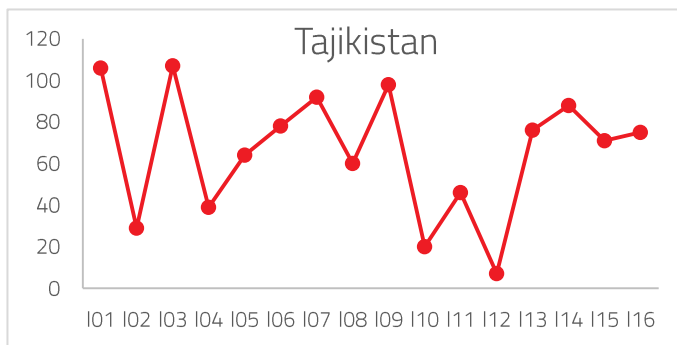
Score: 16.074

Quality group: **LEADING**

	Rank	Value		Rank	Value
I01. ISO 9001 Certified Organizations * ¹	2	1.45937	I09. Gross Domestic Product * ⁵	2	79 890.52
I02. International Academy for Quality Members * ¹	2	0.0004778	I10. Gini Index * ⁴	23	31.64
I03. Indexed Quality Papers Published * ¹	2	0.19649	I11. Environmental Wellbeing Results * ²	48	5.21
I04. Universities in International Research Rankings * ¹	3	0.0009556	I12. Ecological Footprint * ⁶	91	5.28
I05. Education Index * ²	9	0.891	I13. Global Innovation Index * ²	1	67.69
I06. Healthy Life Expectancy * ³	2	73.1	I14. Ease of Doing Business Results * ⁷	24	76.06
I07. At Birth Mortality Rate * ⁴	21	3.4	I15. World Happiness Index * ²	3	7.49
I08. Global Competitiveness Index * ²	1	5.81	I16. Unemployment Rate * ⁴	25	4.66

*¹ per 1,000 inhabitants; *² score; *³ age; *⁴ percentage; *⁵ US dollars; *⁶ gha pc; *⁷ distance to frontier

TAJIKISTAN



Population (2016):8 734 951

OWSQ 2017

Rank 81

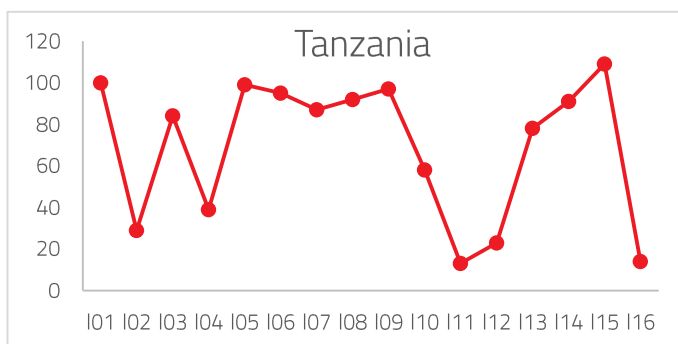
Score: 67.104

Quality group: **BEGINNING**

	Rank	Value		Rank	Value
I01. ISO 9001 Certified Organizations * ¹	106	0.00046	I09. Gross Domestic Product * ⁵	98	795.84
I02. International Academy for Quality Members * ¹	29	0.0000000	I10. Gini Index * ⁴	20	30.76
I03. Indexed Quality Papers Published * ¹	107	0.00023	I11. Environmental Wellbeing Results * ²	46	5.31
I04. Universities in International Research Rankings * ¹	39	0.0000000	I12. Ecological Footprint * ⁶	7	0.93
I05. Education Index * ²	64	0.658	I13. Global Innovation Index * ²	76	28.16
I06. Healthy Life Expectancy * ³	78	62.1	I14. Ease of Doing Business Results * ⁷	88	55.34
I07. At Birth Mortality Rate * ⁴	92	38.5	I15. World Happiness Index * ²	71	5.04
I08. Global Competitiveness Index * ²	60	4.12	I16. Unemployment Rate * ⁴	75	9.86

*¹ per 1,000 inhabitants; *² score; *³ age; *⁴ percentage; *⁵ US dollars; *⁶ gha pc; *⁷ distance to frontier

TANZANIA



Population (2016):55 572 201

OWSQ 2017

Rank 90

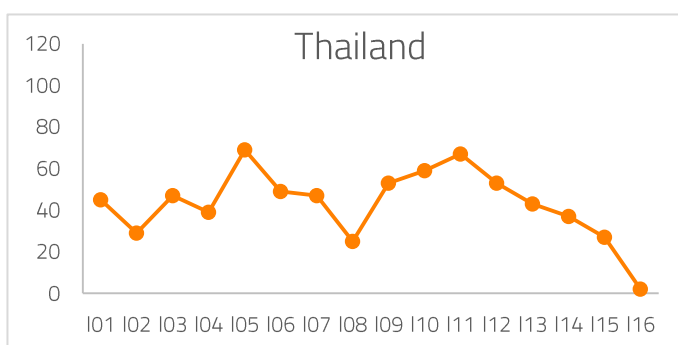
Score: 70.613

Quality group: **BEGINNING**

	Rank	Value		Rank	Value
I01. ISO 9001 Certified Organizations * ¹	100	0.00196	I09. Gross Domestic Product * ⁵	97	879.19
I02. International Academy for Quality Members * ¹	29	0.0000000	I10. Gini Index * ⁴	58	37.78
I03. Indexed Quality Papers Published * ¹	84	0.00157	I11. Environmental Wellbeing Results * ²	13	7.40
I04. Universities in International Research Rankings * ¹	39	0.0000000	I12. Ecological Footprint * ⁶	23	1.25
I05. Education Index * ²	99	0.441	I13. Global Innovation Index * ²	78	27.97
I06. Healthy Life Expectancy * ³	95	54.2	I14. Ease of Doing Business Results * ⁷	91	54.48
I07. At Birth Mortality Rate * ⁴	87	35.2	I15. World Happiness Index * ²	109	3.35
I08. Global Competitiveness Index * ²	92	3.67	I16. Unemployment Rate * ⁴	14	3.39

*¹ per 1,000 inhabitants; *² score; *³ age; *⁴ percentage; *⁵ US dollars; *⁶ gha pc; *⁷ distance to frontier

THAILAND



Population (2016):68 863 514

OWSQ 2017

Rank 34

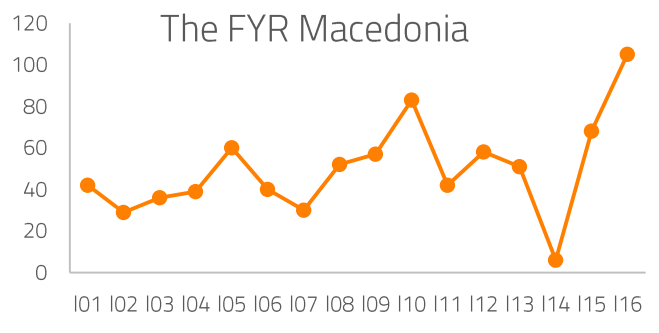
Score: 42.764

Quality group: **MODERATE**

	Rank	Value		Rank	Value
I01. ISO 9001 Certified Organizations * ¹	45	0.12616	I09. Gross Domestic Product * ⁵	53	5 910.62
I02. International Academy for Quality Members * ¹	29	0.0000000	I10. Gini Index * ⁴	59	37.85
I03. Indexed Quality Papers Published * ¹	47	0.01236	I11. Environmental Wellbeing Results * ²	67	4.79
I04. Universities in International Research Rankings * ¹	39	0.0000000	I12. Ecological Footprint * ⁶	53	2.57
I05. Education Index * ²	69	0.641	I13. Global Innovation Index * ²	43	37.57
I06. Healthy Life Expectancy * ³	49	66.8	I14. Ease of Doing Business Results * ⁷	37	72.53
I07. At Birth Mortality Rate * ⁴	47	10.5	I15. World Happiness Index * ²	27	6.42
I08. Global Competitiveness Index * ²	25	4.64	I16. Unemployment Rate * ⁴	2	0.60

*¹ per 1,000 inhabitants; *² score; *³ age; *⁴ percentage; *⁵ US dollars; *⁶ gha pc; *⁷ distance to frontier

THE FYR MACEDONIA



Population (2016):2 081 206

OWSQ 2017

Rank 48

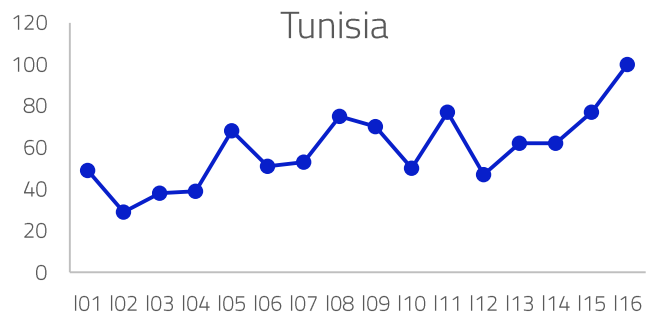
Score: 50.299

Quality group: MODERATE

	Rank	Value		Rank	Value
101. ISO 9001 Certified Organizations * ¹	42	0.17442	109. Gross Domestic Product * ⁵	57	5 237.15
102. International Academy for Quality Members * ¹	29	0.0000000	110. Gini Index * ⁴	83	44.05
103. Indexed Quality Papers Published * ¹	36	0.02787	111. Environmental Wellbeing Results * ²	42	5.44
104. Universities in International Research Rankings * ¹ ...	39	0.0000000	112. Ecological Footprint * ⁶	58	3.06
105. Education Index * ²	60	0.673	113. Global Innovation Index * ²	51	35.43
106. Healthy Life Expectancy * ³	40	67.5	114. Ease of Doing Business Results * ⁷	6	81.74
107. At Birth Mortality Rate * ⁴	30	4.8	115. World Happiness Index * ²	68	5.18
108. Global Competitiveness Index * ²	52	4.23	116. Unemployment Rate * ⁴	105	25.99

*¹ per 1,000 inhabitants; *² score; *³ age; *⁴ percentage; *⁵ US dollars; *⁶ gha pc; *⁷ distance to frontier

TUNISIA



Population (2016): 11 403 248

OWSQ 2017

Rank 69

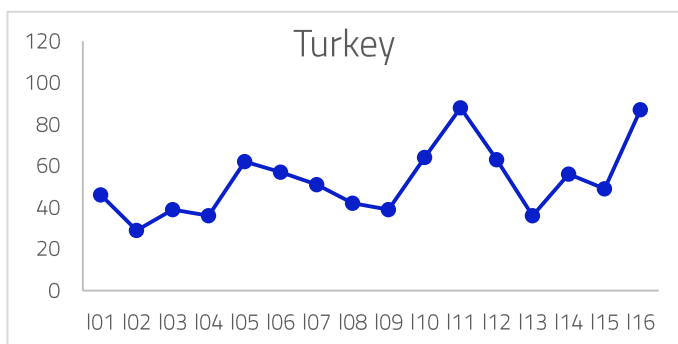
Score: 60.179

Quality group: LAGGING

	Rank	Value		Rank	Value
101. ISO 9001 Certified Organizations * ¹	49	0.08752	109. Gross Domestic Product * ⁵	70	3 688.65
102. International Academy for Quality Members * ¹	29	0.0000000	110. Gini Index * ⁴	50	35.81
103. Indexed Quality Papers Published * ¹	38	0.02385	111. Environmental Wellbeing Results * ²	77	4.46
104. Universities in International Research Rankings * ¹ ...	39	0.0000000	112. Ecological Footprint * ⁶	47	2.18
105. Education Index * ²	68	0.643	113. Global Innovation Index * ²	62	32.30
106. Healthy Life Expectancy * ³	51	66.7	114. Ease of Doing Business Results * ⁷	62	64.89
107. At Birth Mortality Rate * ⁴	53	12.1	115. World Happiness Index * ²	77	4.80
108. Global Competitiveness Index * ²	75	3.92	116. Unemployment Rate * ⁴	100	21.08

*¹ per 1,000 inhabitants; *² score; *³ age; *⁴ percentage; *⁵ US dollars; *⁶ gha pc; *⁷ distance to frontier

TURKEY



Population (2016):79 512 426

OWSQ 2017

Rank 51

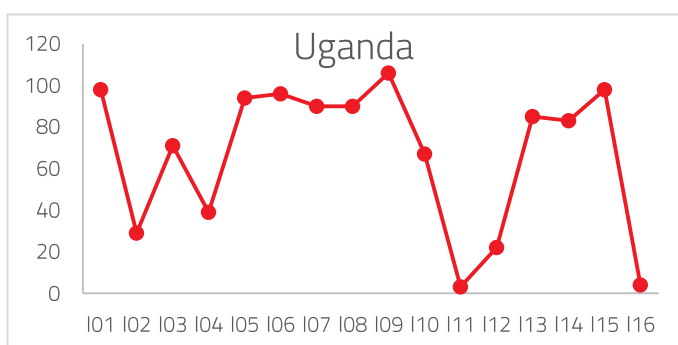
Score: 52.950

Quality group: **LAGGING**

	Rank	Value		Rank	Value
I01. ISO 9001 Certified Organizations * ¹	46	0.10738	I09. Gross Domestic Product * ⁵	39	10 862.60
I02. International Academy for Quality Members * ¹	29	0.0000000	I10. Gini Index * ⁴	64	40.18
I03. Indexed Quality Papers Published * ¹	39	0.01987	I11. Environmental Wellbeing Results * ²	88	3.92
I04. Universities in International Research Rankings * ¹	36	0.0000126	I12. Ecological Footprint * ⁶	63	3.19
I05. Education Index * ²	62	0.668	I13. Global Innovation Index * ²	36	38.90
I06. Healthy Life Expectancy * ³	57	66.2	I14. Ease of Doing Business Results * ⁷	56	67.19
I07. At Birth Mortality Rate * ⁴	51	11.6	I15. World Happiness Index * ²	49	5.50
I08. Global Competitiveness Index * ²	42	4.39	I16. Unemployment Rate * ⁴	87	12.14

*¹ per 1,000 inhabitants; *² score; *³ age; *⁴ percentage; *⁵ US dollars; *⁶ gha pc; *⁷ distance to frontier

UGANDA



Population (2016):41 487 965

OWSQ 2017

Rank 86

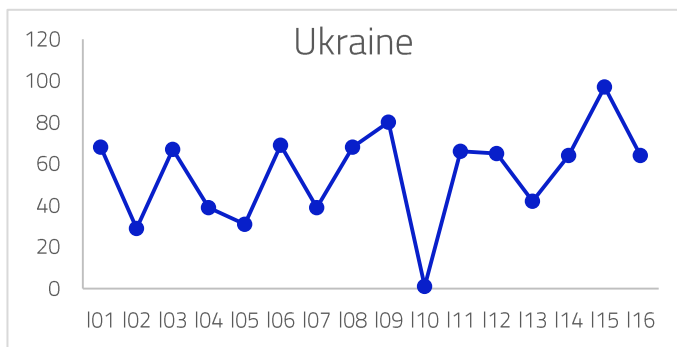
Score: 68.353

Quality group: **BEGINNING**

	Rank	Value		Rank	Value
I01. ISO 9001 Certified Organizations * ¹	98	0.00212	I09. Gross Domestic Product * ⁵	106	580.38
I02. International Academy for Quality Members * ¹	29	0.0000000	I10. Gini Index * ⁴	67	41.01
I03. Indexed Quality Papers Published * ¹	71	0.00323	I11. Environmental Wellbeing Results * ²	3	7.86
I04. Universities in International Research Rankings * ¹	39	0.0000000	I12. Ecological Footprint * ⁶	22	1.22
I05. Education Index * ²	94	0.467	I13. Global Innovation Index * ²	85	26.97
I06. Healthy Life Expectancy * ³	96	54.0	I14. Ease of Doing Business Results * ⁷	83	57.77
I07. At Birth Mortality Rate * ⁴	90	37.7	I15. World Happiness Index * ²	98	4.08
I08. Global Competitiveness Index * ²	90	3.69	I16. Unemployment Rate * ⁴	4	1.86

*¹ per 1,000 inhabitants; *² score; *³ age; *⁴ percentage; *⁵ US dollars; *⁶ gha pc; *⁷ distance to frontier

UKRAINE



Population (2016):45 004 645

OWSQ 2017

Rank 60

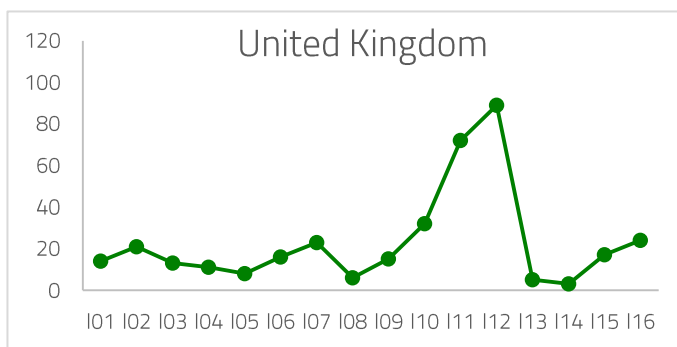
Score: 57.051

Quality group: **LAGGING**

	Rank	Value		Rank	Value
I01. ISO 9001 Certified Organizations * ¹	68	0.02338	I09. Gross Domestic Product * ⁵	80	2 185.73
I02. International Academy for Quality Members * ¹	29	0.0000000	I10. Gini Index * ⁴	1	24.09
I03. Indexed Quality Papers Published * ¹	67	0.00367	I11. Environmental Wellbeing Results * ²	66	4.81
I04. Universities in International Research Rankings * ¹ ...	39	0.0000000	I12. Ecological Footprint * ⁶	65	3.24
I05. Education Index * ²	31	0.803	I13. Global Innovation Index * ²	42	37.62
I06. Healthy Life Expectancy * ³	69	64.1	I14. Ease of Doing Business Results * ⁷	64	63.90
I07. At Birth Mortality Rate * ⁴	39	7.7	I15. World Happiness Index * ²	97	4.10
I08. Global Competitiveness Index * ²	67	4.00	I16. Unemployment Rate * ⁴	64	7.76

*¹ per 1,000 inhabitants; *² score; *³ age; *⁴ percentage; *⁵ US dollars; *⁶ gha pc; *⁷ distance to frontier

UNITED KINGDOM



Population (2016):65 637 239

OWSQ 2017

Rank 6

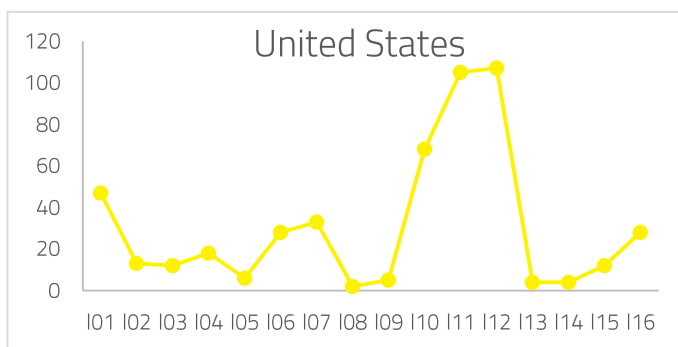
Score: 22.736

Quality group: **LEADING**

	Rank	Value		Rank	Value
I01. ISO 9001 Certified Organizations * ¹	14	0.61186	I09. Gross Domestic Product * ⁵	15	40 341.41
I02. International Academy for Quality Members * ¹	21	0.0000305	I10. Gini Index * ⁴	32	32.57
I03. Indexed Quality Papers Published * ¹	13	0.14417	I11. Environmental Wellbeing Results * ²	72	4.56
I04. Universities in International Research Rankings * ¹ ...	11	0.0005789	I12. Ecological Footprint * ⁶	89	5.05
I05. Education Index * ²	8	0.896	I13. Global Innovation Index * ²	5	60.89
I06. Healthy Life Expectancy * ³	16	71.4	I14. Ease of Doing Business Results * ⁷	3	82.74
I07. At Birth Mortality Rate * ⁴	23	3.5	I15. World Happiness Index * ²	17	6.71
I08. Global Competitiveness Index * ²	6	5.49	I16. Unemployment Rate * ⁴	24	4.60

*¹ per 1,000 inhabitants; *² score; *³ age; *⁴ percentage; *⁵ US dollars; *⁶ gha pc; *⁷ distance to frontier

UNITED STATES



Population (2016): 323 127 513

OWSQ 2017

Rank 15

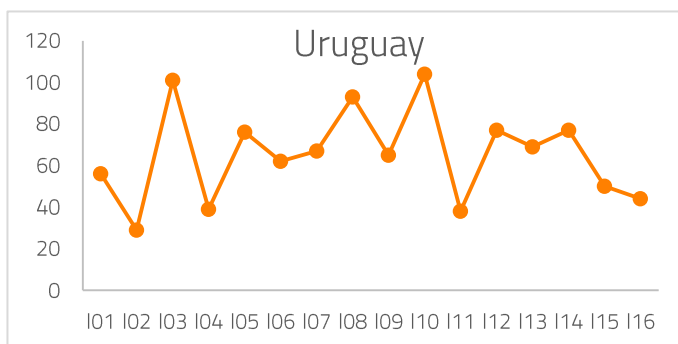
Score: 30.097

Quality group: FOLLOWER

	Rank	Value		Rank	Value
I01. ISO 9001 Certified Organizations * ¹	47	0.10245	I09. Gross Domestic Product * ⁵	5	57 638.16
I02. International Academy for Quality Members * ¹	13	0.0000959	I10. Gini Index * ⁴	68	41.06
I03. Indexed Quality Papers Published * ¹	12	0.14645	I11. Environmental Wellbeing Results * ²	105	2.58
I04. Universities in International Research Rankings * ¹	18	0.0004240	I12. Ecological Footprint * ⁶	107	8.59
I05. Education Index * ²	6	0.900	I13. Global Innovation Index * ²	4	61.40
I06. Healthy Life Expectancy * ³	28	69.1	I14. Ease of Doing Business Results * ⁷	4	82.45
I07. At Birth Mortality Rate * ⁴	33	5.6	I15. World Happiness Index * ²	12	6.99
I08. Global Competitiveness Index * ²	2	5.70	I16. Unemployment Rate * ⁴	28	4.76

*¹ per 1,000 inhabitants; *² score; *³ age; *⁴ percentage; *⁵ US dollars; *⁶ gha pc; *⁷ distance to frontier

URUGUAY



Population (2016): 3 444 006

OWSQ 2017

Rank 44

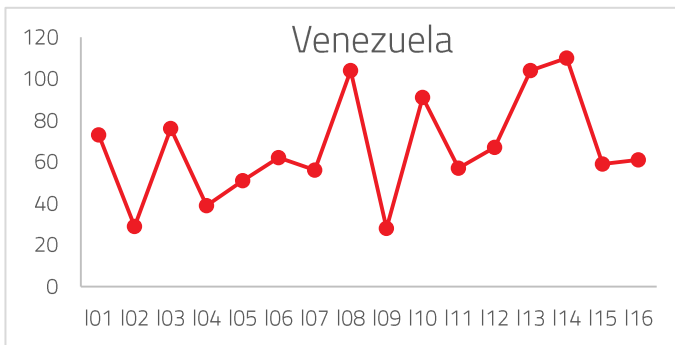
Score: 48.872

Quality group: MODERATE

	Rank	Value		Rank	Value
I01. ISO 9001 Certified Organizations * ¹	30	0.38182	I09. Gross Domestic Product * ⁵	29	15 220.57
I02. International Academy for Quality Members * ¹	29	0.0000000	I10. Gini Index * ⁴	70	41.6
I03. Indexed Quality Papers Published * ¹	43	0.01713	I11. Environmental Wellbeing Results * ²	63	4.88
I04. Universities in International Research Rankings * ¹	39	0.0000000	I12. Ecological Footprint * ⁶	68	3.30
I05. Education Index * ²	49	0.717	I13. Global Innovation Index * ²	56	34.53
I06. Healthy Life Expectancy * ³	36	67.9	I14. Ease of Doing Business Results * ⁷	68	61.85
I07. At Birth Mortality Rate * ⁴	43	8.7	I15. World Happiness Index * ²	23	6.45
I08. Global Competitiveness Index * ²	56	4.17	I16. Unemployment Rate * ⁴	80	11.21

*¹ per 1,000 inhabitants; *² score; *³ age; *⁴ percentage; *⁵ US dollars; *⁶ gha pc; *⁷ distance to frontier

VENEZUELA



Population (2016):31 568 179

OWSQ 2017

Rank82

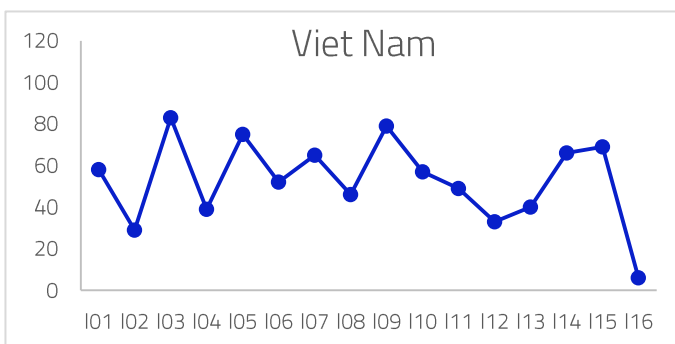
Score:67.453

Quality group: **BEGINNING**

	Rank	Value		Rank	Value
I01. ISO 9001 Certified Organizations * ¹	73	0.01859	I09. Gross Domestic Product * ⁵	28	15 692.41
I02. International Academy for Quality Members * ¹	29	0.0000000	I10. Gini Index * ⁴	91	46.94
I03. Indexed Quality Papers Published * ¹	76	0.00212	I11. Environmental Wellbeing Results * ²	57	5.05
I04. Universities in International Research Rankings * ¹ ...	39	0.0000000	I12. Ecological Footprint * ⁶	67	3.29
I05. Education Index * ²	51	0.710	I13. Global Innovation Index * ²	104	22.32
I06. Healthy Life Expectancy * ³	62	65.2	I14. Ease of Doing Business Results * ⁷	110	33.37
I07. At Birth Mortality Rate * ⁴	56	12.9	I15. World Happiness Index * ²	59	5.25
I08. Global Competitiveness Index * ²	104	3.27	I16. Unemployment Rate * ⁴	61	7.64

*¹ per 1,000 inhabitants; *² score; *³ age; *⁴ percentage; *⁵ US dollars; *⁶ gha pc; *⁷ distance to frontier

VIET NAM



Population (2016):92 701 100

OWSQ 2017

Rank53

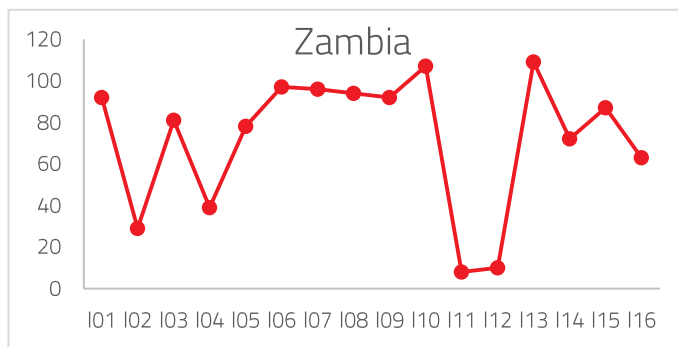
Score:53.276

Quality group: **LAGGING**

	Rank	Value		Rank	Value
I01. ISO 9001 Certified Organizations * ¹	58	0.04475	I09. Gross Domestic Product * ⁵	79	2 214.39
I02. International Academy for Quality Members * ¹	29	0.0000000	I10. Gini Index * ⁴	57	37.59
I03. Indexed Quality Papers Published * ¹	83	0.00162	I11. Environmental Wellbeing Results * ²	49	5.21
I04. Universities in International Research Rankings * ¹ ...	39	0.0000000	I12. Ecological Footprint * ⁶	33	1.66
I05. Education Index * ²	75	0.617	I13. Global Innovation Index * ²	40	38.34
I06. Healthy Life Expectancy * ³	52	66.6	I14. Ease of Doing Business Results * ⁷	66	63.83
I07. At Birth Mortality Rate * ⁴	65	17.3	I15. World Happiness Index * ²	69	5.07
I08. Global Competitiveness Index * ²	46	4.31	I16. Unemployment Rate * ⁴	6	2.11

*¹ per 1,000 inhabitants; *² score; *³ age; *⁴ percentage; *⁵ US dollars; *⁶ gha pc; *⁷ distance to frontier

ZAMBIA



Population (2016): 16 591 390

OWSQ 2017

Rank 94

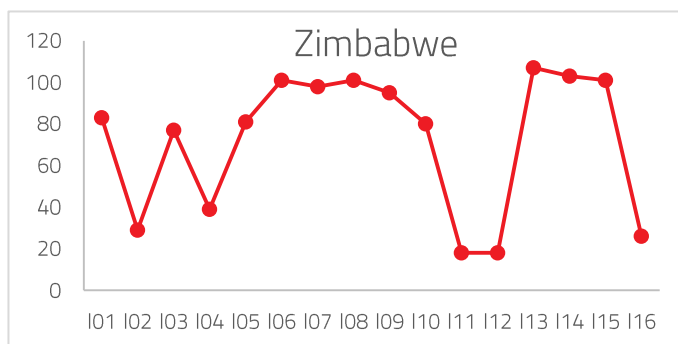
Score: 73.179

Quality group: **BEGINNING**

	Rank	Value		Rank	Value
I01. ISO 9001 Certified Organizations * ¹	92	0.00301	I09. Gross Domestic Product * ⁵	92	1 269.57
I02. International Academy for Quality Members * ¹	29	0.0000000	I10. Gini Index * ⁴	107	55.62
I03. Indexed Quality Papers Published * ¹	81	0.00175	I11. Environmental Wellbeing Results * ²	8	7.67
I04. Universities in International Research Rankings * ¹ ...	39	0.0000000	I12. Ecological Footprint * ⁶	10	0.97
I05. Education Index * ²	78	0.577	I13. Global Innovation Index * ²	109	20.83
I06. Healthy Life Expectancy * ³	97	53.7	I14. Ease of Doing Business Results * ⁷	72	60.54
I07. At Birth Mortality Rate * ⁴	96	43.3	I15. World Happiness Index * ²	87	4.51
I08. Global Competitiveness Index * ²	94	3.60	I16. Unemployment Rate * ⁴	63	7.71

*¹ per 1,000 inhabitants; *² score; *³ age; *⁴ percentage; *⁵ US dollars; *⁶ gha pc; *⁷ distance to frontier

ZIMBABWE



Population (2016): 16 150 362

OWSQ 2017

Rank 97

Score: 73.746

Quality group: **BEGINNING**

	Rank	Value		Rank	Value
I01. ISO 9001 Certified Organizations * ¹	83	0.00805	I09. Gross Domestic Product * ⁵	95	1 029.08
I02. International Academy for Quality Members * ¹	29	0.0000000	I10. Gini Index * ⁴	80	43.15
I03. Indexed Quality Papers Published * ¹	77	0.00198	I11. Environmental Wellbeing Results * ²	18	7.05
I04. Universities in International Research Rankings * ¹ ...	39	0.0000000	I12. Ecological Footprint * ⁶	18	1.14
I05. Education Index * ²	81	0.544	I13. Global Innovation Index * ²	107	21.80
I06. Healthy Life Expectancy * ³	101	52.1	I14. Ease of Doing Business Results * ⁷	103	47.10
I07. At Birth Mortality Rate * ⁴	98	46.6	I15. World Happiness Index * ²	101	3.88
I08. Global Competitiveness Index * ²	101	3.41	I16. Unemployment Rate * ⁴	26	4.67

*¹ per 1,000 inhabitants; *² score; *³ age; *⁴ percentage; *⁵ US dollars; *⁶ gha pc; *⁷ distance to frontier

CONCLUSION

This report presents the first attempt to characterize the “macroquality” level based on a worldwide perspective, considering for that 110 countries.

The WSQ Model is composed by 10 dimensions and 16 quality related indicators.

An overall WSQ score was computed using a weighted average based on the ranking position of each indicator for each country. By the end, countries were grouped in five different groups, named: Leading, Follower, Moderate, Lagging, and Beginning.

The groups of countries pointed out that there is no single strategy to deal with Quality issues, thus reflecting that no single country is able to lead the way in all or most of the indicators or even to underperform across all the indicators.

Furthermore, a multivariate statistical analysis was applied to the results using either the scaled data or the ranking position data. Some insights arose and the grouping made according to the overall score was corroborated in most of the multivariate statistical tests performed.

The WSQ allows the characterization of the macroquality status of a country based on different quality related indicators, and it could be used as an important approach to support governments and quality associations and organizations to define worldwide quality policies and future strategies.

ANNEXES

ANNEX 1: DATA SOURCES AND INDICATOR DETAILS

The data used in this report is the most current available information on June 30th of 2017, coming from the different databases considered. In the following table we will provide a detailed description for each indicator, including computations made and the corresponding data sources.

INDICATOR		DEFINITION	YEAR	INTERPRETATION
Organizations	Number of ISO 9001 Certified Organizations	Number of valid ISO 9001 certificates divided by each country's total population (all residents)	2015	This indicator reflects how many companies are committed with quality standards, specifically ISO 9001, which is an international reference for certification of quality management systems. This number is the response of an annual study that is dependent on certification bodies' feedback and stimulus.
		Source: International Organization for Standardization (ISO), http://www.iso.org/iso/iso-survey		
Professionals	Number of International Academy for Quality Members	Total number of IAQ members (including the different types of IAQ membership) divided by each country's total population (all residents)	2017	This indicator highlights the number of recognized quality professionals, at the level of the International Academy for Quality, a well known worldwide leading organization.
		Source: International Academy for Quality (IAQ), http://www.iaqweb.net/membership/members-list/		
Research	Number of Indexed Quality Papers Published	The sum of indexed quality papers published in Scopus and ISI that have keywords in their abstract, title or keywords that were considered to be related with quality research activities divided by each country's total population (all residents)	2007 to 2016	This indicator mirrors the research on quality field in each country through international scientific publications that are indexed to important scientific journals, reflecting their quality, and have at least one of the following keywords: quality management, quality improvement, quality engineering, quality culture, quality tools, quality goals, quality function deployment, design for six sigma, six sigma, process improvement, statistical process control, statistical quality control, design of experiments or total quality management.
		Source: Scopus, https://www.scopus.com/search/form.uri ; Web of Knowledge (ISI), http://apps.webofknowledge.com/		
	Number of Universities in International Research Rankings	The number of universities that do show up in the Shanghai ranking top 500 higher education institutions divided by each country's total population (all residents)	2016	This indicator provides an overview of quality in higher education and particularly of research conducted in each country, according to how universities are ranked and belong to the top 500 performances.
		Source: Shanghai Ranking, http://www.shanghairanking.com/		

INDICATOR		DEFINITION	YEAR	INTERPRETATION
Education	Education Index	The knowledge dimension of the human development index	2015	This indicator is composed by two indicators: expected years of schooling and mean years of schooling resulting in the education index.
		Source: United Nations Development Programme (UNPD) - Human Development Reports (HDR), http://hdr.undp.org/		
Health	Healthy Life Expectancy	The expected number of years of life, under healthy conditions, without diseases and/or injuries that result in incapacity or less health	2015	This indicator monitors the health conditions of the population, taking into account quality of life issues and reflecting also quality in healthcare across the different countries.
		Source: World Health Organization (WHO), http://apps.who.int/gho/data/node.main.HALE		
	Birth Mortality Rates	The number of deaths of infants (under one year of age) per 1000 live births	2015	This indicator is a good characterizer for each society health's state, focused on the well-being and practices at a specific group (newborns), and reflecting also quality in healthcare across the different countries.
		Source: World Bank, http://data.worldbank.org/indicator/SP.DYN.IMRT.IN		
Competitiveness	Global Competitiveness Index	The Global Competitiveness Index scores according to the World Economic Forum (WEF), after taking into account several dimensions and metrics that are combined together	2016-2017 *	This indicator shows how a country is being able to be more or less competitive, when compared with others, according to the WEF reports and rankings.
		Source: World Economic Forum (WEF), http://reports.weforum.org/global-competitiveness-index/downloads/		
	Gross Domestic Product	A macroeconomic indicator that measures the expenditure on final goods and services provided by all resident producers	2016 *	This indicator reflects the economic performance of a country, in terms of wealth produced per capita.
		Source: World Bank, http://data.worldbank.org/indicator/NY.GDP.MKTP.CD		
Social Cohesion	Gini Index	The degrees of inequality and dispersion of the distribution of income across families and individuals	2014 *	This indicator measures the income distribution and inequalities across people and families at any given country.
		Source: World Bank, http://data.worldbank.org/indicator/SI.POV.GINI		

INDICATOR		DEFINITION	YEAR	INTERPRETATION
Sustainability	Environmental Wellbeing Results	An aggregated evaluation of overall environmental performance through the analysis of environmental indicators and the ecosystem in which we live in	2016	This indicator is one of the dimensions monitored by SSF, dealing with the levels of sustainability for countries around the world.
	Source: Sustainable Society Foundation (SSF), http://www.ssfindex.com/			
	Ecological Footprint	The demand on nature regarding how much area of resources are being used	2013 *	This indicator measures the demand on nature and it provides an overall perspective about sustainability from a resources perspective and the human impact on Earth. The ecological footprint is intrinsically related with the biocapacity to regenerate what is being demanded from the Earth.
Source: Footprint Network, http://www.footprintnetwork.org/				
Innovation	Global Innovation Index	The overall innovation performance (including both drivers and results, as well as innovation as applied to organizations, products, services and processes) measured by the Global Innovation Index (GII) ranking	2017 *	This indicator helps to understand how countries are dealing in terms of innovation challenges and performances, taking into account that Innovation is straightly related with new methods, products, processes and services, aimed at creating value through adaptation and anticipation of changes.
	Source: Global Innovation Index (GII), https://www.globalinnovationindex.org/about-gii#reports			
	Ease of Doing Business Results	The regulatory environment and bureaucracy according to several metrics that allow to measure efficiency in company creation and development, leading to an international ranking driven by how difficult or easy it is to do business	2017	This indicator is provided by the World Bank and allows to compare countries according to business regulations, laws and environments, defining how easy or difficult it is for doing business and how business friendly countries end up being.
Source: World Bank, http://www.doingbusiness.org/reports/global-reports/doing-business-2017				
Satisfaction	World Happiness Index	The measure of happiness and well-being by social progress and the goal of public policy	2017	The happiness measure of a country through six key variables: Gross Domestic Product per capita, healthy life expectancy, social support, generosity, freedom to make life choices, and perceptions of corruption.
	Source: World Happiness Report, http://worldhappiness.report/			
	Unemployment Rate	The percentage of total labor force that is unemployed but actively looking for a paid job and ready to work within the scope of the population that is in working-age	2014	Unemployment is also usually related with low levels for perceived quality of life satisfaction, and corresponds to not making the best use of available human capital at any given country.
Source: World Bank, http://data.worldbank.org/indicator/SL.UEM.TOTL.ZS				

INDICATOR	DEFINITION	YEAR	INTERPRETATION
World Population	A country's total population (all residentes)	2016	The population associated with each country, according to the World Bank statistics.
Source: World Bank, http://data.worldbank.org/indicator/SP.POP.TOTL			

* The values used for some countries were the latest available for them as of June 30th of 2017, as the methodology and score was comparable.

ANNEX 2: WSQ SCALED DATA

2.1 DIMENSIONS, INDICATORS AND UNITS

DIMENSION		INDICATOR		UNIT
Organizations	I01	ISO	Number of ISO 9001 Certified Organizations	per 1,000 inhabitants
Professionals	I02	IAQ	Number of International Academy for Quality Members	per 1,000 inhabitants
Research	I03	PAP	Number of Indexed Quality Papers Published	per 1,000 inhabitants
	I04	UNI	Number of Universities in International Research Rankings	per 1,000 inhabitants
Education	I05	EDU	Education Index	score
Health	I06	HLE	Healthy Life Expectancy	age
	I07	BMO	Birth Mortality Rate	percentage
Competitiveness	I08	GCI	Global Competitiveness Index	score
	I09	GDP	Gross Domestic Product	US dollars
Social Cohesion	I10	GIN	Gini Index	percentage
Sustainability	I11	EWB	Environmental Wellbeing Results	score
	I12	ECO	Ecological Footprint	gha pc
Innovation	I13	GII	Global Innovation Index	score
	I14	EDB	Ease of Doing Business Results	distance to frontier
Satisfaction	I15	WHI	World Happiness Index	score
	I16	UNR	Unemployment Rate	percentage

2.2 SCALED DATA

COUNTRY	I01	I02	I03	I04	I05	I06	I07	I08	I09	I10	I11	I12	I13	I14	I15	I16
Albania	0.09701	0.0000000	0.00591	0.0000000	0.715	68.8	12.5	4.06	4124.98	28.96	5.40	2.29	28.86	68.90	4.64	16.14
Angola	0.00722	0.0000000	0.00014	0.0000000	0.482	45.9	96.0	3.04	3308.70	42.72	6.44	0.98	26.20	38.41	3.80	7.07
Argentina	0.16220	0.0001140	0.00734	0.0000228	0.808	67.6	11.1	3.81	12440.32	42.67	4.09	3.73	32.00	57.45	6.60	7.67
Armenia	0.00923	0.0000000	0.00274	0.0000000	0.730	66.9	12.6	4.07	3614.69	31.48	4.04	2.07	35.65	73.63	4.38	18.66
Australia	0.56517	0.0001658	0.18469	0.0010776	0.939	71.9	3.0	5.19	49927.82	34.94	2.43	8.80	51.83	80.26	7.28	5.77
Austria	0.51101	0.0001143	0.14244	0.0005716	0.820	72.0	2.9	5.22	44676.35	30.48	4.54	6.11	53.10	78.92	7.01	5.76
Azerbaijan	0.02489	0.0000000	0.00072	0.0000000	0.723	64.7	27.9	4.55	3876.94	31.79	3.94	2.30	30.58	67.99	5.23	5.92
Bangladesh	0.00278	0.0000000	0.00077	0.0000000	0.457	62.4	30.7	3.80	1358.78	32.13	5.36	0.75	23.72	40.84	4.61	4.73
Belgium	0.31388	0.0001762	0.13817	0.0006168	0.841	71.1	3.3	5.25	41236.27	27.59	2.66	6.89	49.85	73.00	6.89	7.85
Benin	0.00460	0.0000000	0.00120	0.0000000	0.414	52.5	64.2	3.47	789.44	43.44	6.76	1.31	23.04	48.52	3.66	0.93
Bhutan	0.01003	0.0000000	0.00376	0.0000000	0.452	61.2	27.2	3.87	2773.55	38.81	4.23	4.61	27.88	65.37	5.01	3.12
Bolivia	0.02122	0.0000000	0.00156	0.0000000	0.656	62.5	30.6	3.54	3104.96	48.4	3.61	3.06	25.64	49.85	5.82	4.54
Bosnia and Herzegovina	0.22464	0.0000000	0.01735	0.0000000	0.694	68.6	5.1	3.80	4808.41	33.83	3.79	3.21	30.23	63.87	5.18	22.27
Botswana	0.00667	0.0000000	0.01155	0.0000000	0.658	56.9	34.8	4.29	6924.15	60.46	4.44	3.07	29.97	65.55	3.77	21.38
Brazil	0.08441	0.0000096	0.01366	0.0000289	0.681	65.5	14.6	4.06	8649.95	51.48	5.13	3.02	33.10	56.53	6.64	13.98
Bulgaria	0.76335	0.0000000	0.01824	0.0000000	0.778	66.4	9.3	4.44	7469.03	36.01	4.47	3.13	42.84	73.51	4.71	7.49
Burkina Faso	0.00268	0.0000000	0.00097	0.0000000	0.262	52.6	60.9	3.21	627.10	35.3	7.65	1.19	21.86	51.33	4.03	2.12
Burundi	0.00000	0.0000000	0.00019	0.0000000	0.395	52.2	54.1	3.06	285.73	33.36	8.13	0.63	21.31	47.37	2.90	1.90
Cambodia	0.00254	0.0000000	0.00121	0.0000000	0.459	58.1	24.6	3.98	1269.91	30.76	6.35	1.21	27.05	54.79	4.17	0.21
Cameroon	0.00294	0.0000000	0.00098	0.0000000	0.493	50.3	57.1	3.58	1374.51	46.54	7.15	1.16	22.58	45.27	4.70	5.33
Canada	0.17684	0.0000827	0.17174	0.0005236	0.890	72.3	4.3	5.27	42157.93	33.68	2.42	8.76	53.65	78.57	7.32	6.44
Chile	0.29498	0.0000558	0.01290	0.0000558	0.784	70.5	7.0	4.64	13792.93	50.45	4.31	4.35	38.70	69.56	6.65	7.30
China	0.21220	0.0000058	0.00847	0.0000297	0.631	68.5	9.2	4.95	8123.18	42.16	3.82	3.59	52.54	64.28	5.27	3.72
Colombia	0.25832	0.0000000	0.00754	0.0000000	0.630	65.2	13.6	4.30	5805.61	53.5	5.95	1.89	34.78	70.92	6.36	13.06
Costa Rica	0.05785	0.0000000	0.00865	0.0000000	0.684	69.8	8.5	4.41	11824.64	48.53	6.97	2.48	37.09	68.50	7.08	11.51
Côte d'Ivoire	0.00684	0.0000000	0.00021	0.0000000	0.415	47.0	66.6	3.86	1534.97	43.18	6.09	1.63	23.96	52.31	4.18	11.02
Croatia	0.60639	0.0000000	0.11054	0.0002398	0.798	69.4	3.6	4.15	12160.11	32.51	5.93	3.77	39.80	72.99	5.29	14.21
Cyprus	0.70249	0.0000000	0.07521	0.0000000	0.786	71.3	2.5	4.04	23324.20	34.31	4.51	3.31	46.84	72.65	5.62	11.88

COUNTRY	I01	I02	I03	I04	I05	I06	I07	I08	I09	I10	I11	I12	I13	I14	I15	I16
Czech Republic	1.00818	0.0000000	0.06268	0.0000947	0.878	69.4	2.8	4.72	18491.94	26.13	3.30	5.29	50.98	76.71	6.61	4.97
Denmark	0.32542	0.0000000	0.17885	0.0008724	0.923	71.2	2.9	5.35	53549.70	29.08	4.49	6.11	58.70	84.87	7.52	6.35
Dominican Republic	0.01812	0.0000000	0.00094	0.0000000	0.622	65.1	25.7	3.94	6722.22	47.07	6.34	1.53	31.17	59.35	5.23	22.22
Ecuador	0.07751	0.0000000	0.00336	0.0000000	0.665	67.0	18.4	3.96	6018.53	45.38	4.65	1.94	29.14	57.97	6.01	6.97
El Salvador	0.03467	0.0000000	0.00095	0.0000000	0.584	64.1	14.4	3.81	4223.58	41.84	6.57	1.89	26.68	61.02	6.00	4.34
Estonia	0.85911	0.0000000	0.08128	0.0007596	0.877	69.0	2.3	4.78	17727.49	33.15	2.21	7.01	50.93	81.05	5.61	6.75
Ethiopia	0.00097	0.0000000	0.00102	0.0000000	0.318	56.1	41.4	3.77	706.76	33.17	7.82	1.01	24.16	47.25	4.46	8.69
Finland	0.47242	0.0009099	0.15432	0.0009099	0.847	71.0	1.9	5.44	43402.86	27.12	3.61	6.73	58.49	80.84	7.47	8.54
France	0.41623	0.0000149	0.05558	0.0003289	0.839	72.6	3.5	5.20	36854.97	33.1	4.00	5.06	54.18	76.27	6.44	9.62
Georgia	0.02285	0.0000000	0.00672	0.0000000	0.794	66.4	10.6	4.32	3865.79	40.09	4.91	1.73	34.39	80.20	4.29	10.04
Germany	0.64106	0.0000726	0.09715	0.0004597	0.914	71.3	3.1	5.57	42069.60	30.13	3.29	5.46	58.39	79.87	6.95	4.00
Ghana	0.00213	0.0000000	0.00401	0.0000000	0.551	55.3	42.8	3.68	1513.46	42.77	6.27	1.92	26.66	58.82	4.12	6.17
Greece	0.57571	0.0000931	0.08747	0.0001861	0.830	71.9	3.6	4.00	17930.16	36.68	4.89	4.21	38.85	68.67	5.23	28.45
Guatemala	0.01357	0.0000000	0.00096	0.0000000	0.508	62.2	24.3	4.08	4146.74	48.66	5.50	1.70	27.90	62.93	6.45	2.98
Guinea	0.00073	0.0000000	0.00081	0.0000000	0.330	51.7	61.0	2.84	661.53	33.73	7.71	1.37	17.41	46.23	3.51	7.43
Honduras	0.01887	0.0000000	0.00099	0.0000000	0.518	64.9	17.4	3.98	2361.16	50.64	6.04	1.71	26.36	59.09	5.18	9.71
Hungary	0.58963	0.0003056	0.03779	0.0000000	0.834	67.4	5.3	4.20	12814.95	30.55	5.16	3.26	41.74	73.07	5.32	5.29
India	0.02742	0.0000045	0.00491	0.0000008	0.535	59.6	37.9	4.52	1709.59	35.15	5.14	1.06	35.47	55.27	4.32	3.81
Indonesia	0.03299	0.0000000	0.00177	0.0000000	0.622	62.1	22.8	4.52	3570.29	39.47	5.99	1.45	30.10	61.52	5.26	6.34
Iran	0.03280	0.0000125	0.03474	0.0000249	0.704	66.5	13.4	4.12	5219.11	37.35	3.12	3.00	32.09	57.26	4.69	18.90
Ireland	0.48669	0.0000000	0.19673	0.0006285	0.910	71.5	3.0	5.18	63861.92	32.52	3.58	4.80	58.13	79.53	6.98	6.92
Israel	1.06293	0.0001170	0.06306	0.0005850	0.870	72.8	3.2	5.18	37175.74	42.78	3.40	5.96	53.88	71.65	7.21	5.78
Italy	2.19255	0.0000330	0.05838	0.0003135	0.814	72.8	2.9	4.50	30674.84	35.16	5.20	4.50	46.96	72.25	5.96	12.67
Jamaica	0.00902	0.0000000	0.00555	0.0000000	0.678	67.0	13.5	4.13	4878.58	45.46	5.83	1.89	30.36	67.54	5.31	18.16
Japan	0.37089	0.0000866	0.01874	0.0001260	0.842	74.9	2.0	5.48	38900.57	32.11	3.62	4.99	54.72	75.53	5.92	2.91
Kenya	0.01354	0.0000000	0.00338	0.0000000	0.518	55.6	35.5	3.90	1455.36	48.51	7.36	1.03	30.95	61.22	4.55	13.17
Kyrgyzstan	0.00016	0.0000000	0.00049	0.0000000	0.721	63.9	19.0	3.75	1077.04	26.82	4.95	1.87	28.01	65.17	5.00	9.14
Latvia	0.56875	0.0000000	0.05458	0.0000000	0.835	67.1	6.9	4.45	14064.66	35.48	4.73	6.53	44.61	80.61	5.85	8.93
Lesotho	0.00136	0.0000000	0.00182	0.0000000	0.503	46.6	69.2	3.57	1039.70	54.18	7.93	1.43	26.97	60.37	3.81	31.79

COUNTRY	I01	I02	I03	I04	I05	I06	I07	I08	I09	I10	I11	I12	I13	I14	I15	I16
Lithuania	0.43101	0.0000000	0.07973	0.0000000	0.882	66.1	3.3	4.60	14879.68	35.15	4.02	6.18	41.17	78.84	5.90	8.24
Luxembourg	0.43227	0.0000000	0.17668	0.0000000	0.783	71.8	1.5	5.20	100573.14	34.79	2.56	13.09	56.40	68.81	6.86	6.72
Madagascar	0.00386	0.0000000	0.00036	0.0000000	0.492	56.9	35.9	3.33	401.74	42.65	7.59	0.95	24.15	45.10	3.64	2.74
Malawi	0.00094	0.0000000	0.00326	0.0000000	0.445	51.2	43.4	3.08	300.31	46.12	7.77	0.82	23.45	54.39	3.97	7.10
Malaysia	0.38359	0.0000000	0.07202	0.0000962	0.700	66.5	6.0	5.16	9508.24	46.26	3.47	4.21	42.72	78.11	6.08	3.59
Mali	0.00033	0.0000000	0.00106	0.0000000	0.312	51.1	74.5	3.46	779.94	33.04	7.13	1.30	22.48	52.96	4.19	11.38
Mauritius	0.18916	0.0000000	0.00950	0.0000000	0.725	66.8	11.8	4.49	9630.94	35.84	4.76	3.33	34.82	72.27	5.63	11.54
Mexico	0.05816	0.0000000	0.00600	0.0000078	0.655	67.4	11.3	4.41	8208.56	48.21	4.89	2.56	35.79	72.29	6.58	4.24
Moldova	0.03660	0.0000000	0.00394	0.0000000	0.725	64.9	13.6	3.86	1900.20	26.83	5.42	1.74	36.84	72.75	5.84	3.78
Mongolia	0.00595	0.0000000	0.00429	0.0000000	0.737	62.1	19.0	3.84	3694.08	32.04	2.94	7.48	37.13	68.15	4.95	6.09
Montenegro	0.13488	0.0000000	0.02890	0.0000000	0.797	67.9	4.3	4.05	7023.54	31.93	6.74	3.64	38.07	72.08	5.24	17.14
Morocco	0.02747	0.0000000	0.00434	0.0000000	0.503	65.1	23.7	4.20	2832.43	40.72	5.14	1.70	32.72	67.50	5.24	10.63
Mozambique	0.00198	0.0000000	0.00114	0.0000000	0.369	49.6	56.7	3.13	382.07	45.58	7.55	0.84	24.55	53.78	4.55	26.16
Namibia	0.01815	0.0000000	0.00242	0.0000000	0.546	57.5	32.8	4.02	4414.98	60.97	5.58	2.11	27.94	58.82	4.57	28.01
Nepal	0.00338	0.0000000	0.00152	0.0000000	0.475	61.2	29.4	3.87	729.12	32.84	7.28	0.93	24.20	58.88	4.96	2.83
Netherlands	0.60999	0.0001763	0.17916	0.0007051	0.897	72.2	3.2	5.57	45669.81	27.99	3.15	5.80	63.36	76.38	7.38	6.62
Nicaragua	0.00976	0.0000000	0.00179	0.0000000	0.542	63.8	18.8	3.81	2151.38	47.05	5.70	1.43	23.06	55.75	6.07	6.02
Nigeria	0.00109	0.0000000	0.00132	0.0000000	0.477	47.7	69.4	3.39	2175.67	42.97	6.69	1.07	21.92	44.63	5.07	5.81
Norway	0.47144	0.0001911	0.16511	0.0005733	0.916	72.0	2.0	5.44	70911.76	25.9	3.67	5.76	53.14	82.82	7.54	4.47
Pakistan	0.01288	0.0000000	0.00286	0.0000000	0.395	57.8	65.8	3.49	1443.63	30.69	5.71	0.73	23.80	51.77	5.27	10.55
Panama	0.04883	0.0000000	0.00397	0.0000000	0.691	68.1	14.6	4.51	13680.24	50.7	5.18	2.81	34.98	66.19	6.45	7.63
Paraguay	0.05011	0.0000000	0.00089	0.0000000	0.613	65.2	17.5	3.65	4077.74	51.67	5.68	4.01	30.30	59.03	5.49	6.18
Peru	0.04063	0.0000000	0.00173	0.0000000	0.672	65.7	13.1	4.23	6049.23	44.14	4.65	2.34	32.90	70.25	5.72	5.56
Philippines	0.02129	0.0000097	0.00155	0.0000000	0.637	61.1	22.2	4.36	2951.07	43.04	6.26	1.01	32.48	60.40	5.43	5.80
Poland	0.28146	0.0000000	0.02691	0.0000527	0.852	68.7	4.5	4.56	12421.32	32.08	4.24	4.27	41.99	77.81	5.97	6.45
Portugal	0.72623	0.0002906	0.13327	0.0004843	0.756	71.4	3.0	4.48	19839.64	36.04	5.19	3.87	46.05	77.40	5.20	11.49
Romania	1.04155	0.0000000	0.07029	0.0000000	0.769	66.8	9.7	4.30	9519.88	27.45	5.58	2.63	39.16	74.26	5.82	5.51
Russia	0.06293	0.0000208	0.00568	0.0000208	0.816	63.4	8.2	4.51	8748.36	41.59	2.46	5.72	38.76	73.19	5.96	5.47
Rwanda	0.00025	0.0000000	0.00596	0.0000000	0.426	56.6	31.1	4.41	702.84	50.44	7.78	0.87	27.36	69.81	3.47	2.62
Senegal	0.00396	0.0000000	0.00130	0.0000000	0.355	58.3	41.7	3.74	952.77	40.29	7.64	1.11	27.11	50.68	4.53	12.53

COUNTRY	I01	I02	I03	I04	I05	I06	I07	I08	I09	I10	I11	I12	I13	I14	I15	I16
Serbia	0.35594	0.0000000	0.06504	0.0001417	0.760	67.7	5.9	3.97	5426.90	29.06	5.22	3.10	35.34	72.29	5.39	17.91
Slovakia	1.04684	0.0000000	0.07055	0.0000000	0.823	68.1	5.8	4.28	16535.92	26.12	4.86	4.44	43.43	75.61	6.10	11.23
Slovenia	0.71725	0.0000000	0.17483	0.0004843	0.886	71.1	2.1	4.39	21652.28	25.59	4.88	4.70	45.80	76.14	5.76	9.56
South Africa	0.07773	0.0000358	0.01558	0.0000715	0.705	54.4	33.6	4.47	5284.60	63.38	4.24	3.37	35.80	65.20	4.83	28.53
Spain	0.70472	0.0000000	0.09086	0.0002584	0.818	72.4	3.5	4.68	26639.74	35.89	5.02	4.03	48.81	75.73	6.40	21.28
Sri Lanka	0.03778	0.0000000	0.00226	0.0000000	0.752	67.0	8.4	4.19	3835.39	39.16	6.40	1.43	29.85	58.79	4.44	8.52
Sweden	0.43582	0.0004039	0.19307	0.0011108	0.855	72.0	2.4	5.53	51949.27	27.32	3.82	6.53	63.82	82.13	7.28	6.96
Switzerland	1.45937	0.0004778	0.19649	0.0009556	0.891	73.1	3.4	5.81	79890.52	31.64	5.21	5.28	67.69	76.06	7.49	4.66
Tajikistan	0.00046	0.0000000	0.00023	0.0000000	0.658	62.1	38.5	4.12	795.84	30.76	5.31	0.93	28.16	55.34	5.04	9.86
Tanzania	0.00196	0.0000000	0.00157	0.0000000	0.441	54.2	35.2	3.67	879.19	37.78	7.40	1.25	27.97	54.48	3.35	3.39
Thailand	0.12616	0.0000000	0.01236	0.0000000	0.641	66.8	10.5	4.64	5910.62	37.85	4.79	2.57	37.57	72.53	6.42	0.60
The FYR Macedonia	0.17442	0.0000000	0.02787	0.0000000	0.673	67.5	4.8	4.23	5237.15	44.05	5.44	3.06	35.43	81.74	5.18	25.99
Tunisia	0.08752	0.0000000	0.02385	0.0000000	0.643	66.7	12.1	3.92	3688.65	35.81	4.46	2.18	32.30	64.89	4.80	21.08
Turkey	0.10738	0.0000000	0.01987	0.0000126	0.668	66.2	11.6	4.39	10862.60	40.18	3.92	3.19	38.90	67.19	5.50	12.14
Uganda	0.00212	0.0000000	0.00323	0.0000000	0.467	54.0	37.7	3.69	580.38	41.01	7.86	1.22	26.97	57.77	4.08	1.86
Ukraine	0.02338	0.0000000	0.00367	0.0000000	0.803	64.1	7.7	4.00	2185.73	24.09	4.81	3.24	37.62	63.90	4.10	7.76
United Kingdom	0.61186	0.0000305	0.14417	0.0005789	0.896	71.4	3.5	5.49	40341.41	32.57	4.56	5.05	60.89	82.74	6.71	4.60
United States	0.10245	0.0000959	0.14645	0.0004240	0.900	69.1	5.6	5.70	57638.16	41.06	2.58	8.59	61.40	82.45	6.99	4.76
Uruguay	0.38182	0.0000000	0.01713	0.0000000	0.717	67.9	8.7	4.17	15220.57	41.6	4.88	3.30	34.53	61.85	6.45	11.21
Venezuela	0.01859	0.0000000	0.00212	0.0000000	0.710	65.2	12.9	3.27	15692.41	46.94	5.05	3.29	22.32	33.37	5.25	7.64
Viet Nam	0.04475	0.0000000	0.00162	0.0000000	0.617	66.6	17.3	4.31	2214.39	37.59	5.21	1.66	38.34	63.83	5.07	2.11
Zambia	0.00301	0.0000000	0.00175	0.0000000	0.577	53.7	43.3	3.60	1269.57	55.62	7.67	0.97	20.83	60.54	4.51	7.71

ANNEX 3: WSQ TABLE OF RANKED DATA

The following table presents the ranking positions (usually 1 to 110) achieved by each of the 110 worldwide (table lines), according to the corresponding 16 WSQ indicators (table columns). Whenever ties were obtained, the best ranking position was shared for all the tied countries (e.g. since there are 28 worldwide countries having IAQ members, all countries without any IAQ members were assigned position 29th in the corresponding indicator (R02)).

COUNTRY	R01	R02	R03	R04	R05	R06	R07	R08	R09	R10	R11	R12	R13	R14	R15	R16
Albania	48	29	57	39	50	30	54	63	64	13	44	48	75	48	81	94
Angola	84	29	110	39	91	110	110	109	73	75	24	11	90	109	103	55
Argentina	43	12	53	34	30	39	49	83	35	74	83	74	64	84	21	62
Armenia	81	29	73	39	44	47	55	62	71	22	84	45	49	29	90	98
Australia	20	9	4	2	1	12	14	16	8	44	108	109	18	10	7	36
Austria	21	11	14	13	26	10	11	13	10	17	73	99	16	14	11	35
Azerbaijan	67	29	104	39	47	68	79	28	66	24	87	49	67	53	62	40
Bangladesh	94	29	103	39	96	75	82	85	90	29	45	3	98	108	82	27
Belgium	34	8	15	9	20	21	19	12	14	11	104	104	21	33	15	65
Benin	88	29	91	39	102	99	104	99	99	82	20	25	101	100	105	3
Bhutan	79	29	66	39	97	80	78	77	77	60	82	85	81	59	72	13
Bolivia	71	29	85	39	66	74	81	97	74	95	94	59	91	99	43	23
Bosnia and Herzegovina	38	29	42	39	55	32	31	86	60	41	91	64	70	65	66	104
Botswana	86	29	48	39	64	88	86	49	49	108	78	60	72	58	104	102
Brazil	50	26	45	32	58	60	63	64	44	103	56	57	58	86	19	92
Bulgaria	8	29	41	39	38	55	45	38	47	53	76	62	29	30	78	59
Burkina Faso	95	29	97	39	110	98	102	105	105	48	9	20	106	97	99	7
Burundi	110	29	109	39	103	100	99	108	110	38	1	1	108	101	110	5
Cambodia	96	29	90	39	95	85	76	71	91	20	26	21	84	90	95	1
Cameroon	93	29	96	39	89	105	101	95	89	90	16	19	102	105	79	31
Canada	41	16	9	14	10	7	27	11	12	39	109	108	14	16	6	47
Chile	35	18	46	29	36	24	38	24	32	100	79	82	39	47	18	57
China	39	27	51	31	71	33	44	20	46	72	90	72	17	63	56	16
Colombia	37	29	52	39	72	62	60	47	54	105	33	40	55	44	29	90
Costa Rica	55	29	50	39	57	25	42	41	38	97	19	51	45	51	10	84
Côte d'Ivoire	85	29	108	39	101	108	106	79	85	81	30	32	96	95	94	79
Croatia	16	29	17	22	32	26	25	57	37	30	34	75	34	34	55	93
Cyprus	12	29	23	39	35	18	8	66	21	42	74	69	24	36	47	86
Czech Republic	6	29	29	27	13	26	9	22	24	5	99	92	19	20	20	29
Denmark	33	29	6	5	2	20	11	10	6	15	75	98	6	1	2	46
Dominican Republic	75	29	100	39	73	64	77	74	50	93	27	31	65	75	63	103
Ecuador	52	29	69	39	63	45	68	73	52	85	71	44	74	82	33	54
El Salvador	62	29	99	39	77	69	62	84	62	71	23	42	87	71	34	21
Estonia	7	29	21	6	14	29	6	21	26	36	110	105	20	7	48	51
Ethiopia	103	29	94	39	108	91	93	87	102	37	4	13	94	102	88	69
Finland	23	1	11	4	18	23	2	8	11	8	95	103	7	8	4	68
France	28	23	31	19	21	5	23	15	18	35	86	90	12	22	26	73
Georgia	69	29	54	39	34	55	48	45	67	63	60	37	57	11	92	76
Germany	13	17	18	17	4	18	16	4	13	16	100	93	8	12	14	19
Ghana	97	29	63	39	79	93	95	91	86	76	28	43	88	80	96	43
Greece	18	14	20	23	24	12	25	69	25	55	61	79	37	50	64	108
Guatemala	76	29	98	39	86	76	75	61	63	98	41	35	80	67	23	12

COUNTRY	R01	R02	R03	R04	R05	R06	R07	R08	R09	R10	R11	R12	R13	R14	R15	R16
Guinea	105	29	102	39	107	102	103	110	104	40	7	26	110	104	107	58
Honduras	72	29	95	39	84	66	66	70	78	101	31	36	89	76	67	74
Hungary	17	4	33	39	23	41	32	53	34	18	53	66	32	32	53	30
India	66	28	60	38	83	83	91	29	84	45	55	15	50	89	91	18
Indonesia	63	29	80	39	73	78	73	30	72	62	32	30	71	69	58	45
Iran	64	24	34	33	53	53	58	59	58	56	102	56	63	85	80	99
Ireland	22	29	1	8	5	15	14	17	4	31	96	87	9	13	13	52
Israel	3	10	28	10	15	3	17	18	17	77	98	97	13	43	9	37
Italy	1	20	30	20	29	3	11	33	19	47	50	84	23	41	36	89
Jamaica	82	29	59	39	59	45	59	58	59	86	35	41	68	54	54	97
Japan	31	15	40	25	19	1	3	7	16	28	93	88	11	27	38	11
Kenya	77	29	68	39	84	92	88	76	87	96	14	14	66	70	84	91
Kyrgyzstan	109	29	105	39	48	71	70	88	93	6	59	39	77	61	73	71
Latvia	19	29	32	39	22	43	37	37	31	49	69	101	27	9	40	70
Lesotho	101	29	78	39	87	109	107	96	94	106	2	27	85	74	102	110
Lithuania	27	29	22	39	12	58	19	26	30	45	85	100	33	15	39	66
Luxembourg	26	29	7	39	37	14	1	14	1	43	106	110	10	49	16	50
Madagascar	90	29	106	39	90	88	89	103	107	73	11	9	95	106	106	9
Malawi	104	29	70	39	98	103	97	107	109	88	6	4	99	92	100	56
Malaysia	29	29	24	26	54	53	36	19	42	89	97	80	30	17	31	15
Mali	107	29	93	39	109	104	109	100	100	34	17	24	103	94	93	82
Mauritius	40	29	49	39	45	49	52	34	40	51	68	70	54	40	46	85
Mexico	54	29	55	37	67	41	50	39	45	94	62	52	48	39	22	20
Moldova	61	29	65	39	45	66	60	80	83	7	43	38	46	35	41	17
Mongolia	87	29	62	39	43	78	70	81	69	26	103	106	44	52	75	42
Montenegro	44	29	35	39	33	36	27	65	48	25	21	73	41	42	60	95
Morocco	65	29	61	39	87	64	74	54	76	66	54	34	60	55	61	78
Mozambique	99	29	92	39	105	106	100	106	108	87	12	5	92	93	85	106
Namibia	74	29	74	39	80	87	84	67	61	109	39	46	79	79	83	107
Nepal	91	29	87	39	93	80	80	78	101	33	15	8	93	78	74	10
Netherlands	15	7	5	7	7	8	17	3	9	12	101	96	3	21	5	49
Nicaragua	80	29	79	39	82	72	69	82	82	92	37	29	100	87	32	41
Nigeria	102	29	88	39	92	107	108	102	81	78	22	16	105	107	69	39
Norway	24	6	10	12	3	10	3	9	3	3	92	95	15	2	1	22
Pakistan	78	29	72	39	103	86	105	98	88	19	36	2	97	96	57	77
Panama	57	29	64	39	56	34	63	31	33	102	52	55	53	57	25	60
Paraguay	56	29	101	39	76	62	67	93	65	104	38	77	69	77	50	44
Peru	59	29	82	39	61	59	57	51	51	84	70	50	59	45	45	34
Philippines	70	25	86	39	70	82	72	44	75	79	29	12	61	73	51	38
Poland	36	29	37	30	17	31	29	27	36	27	81	81	31	18	35	48
Portugal	9	5	16	16	41	16	14	35	23	54	51	76	25	19	65	83
Romania	5	29	26	39	39	49	46	48	41	10	40	54	35	28	42	33
Russia	53	22	58	35	28	73	40	32	43	69	107	94	38	31	37	32
Rwanda	108	29	56	39	100	90	83	40	103	99	5	6	82	46	108	8
Senegal	89	29	89	39	106	84	94	89	96	65	10	17	83	98	86	88
Serbia	32	29	27	24	40	38	35	72	55	14	47	61	52	38	52	96
Slovakia	4	29	25	39	25	34	34	50	27	4	65	83	28	26	30	81
Slovenia	10	29	8	15	11	21	5	43	22	2	64	86	26	23	44	72
South Africa	51	19	44	28	52	94	85	36	56	110	80	71	47	60	76	109

COUNTRY	R01	R02	R03	R04	R05	R06	R07	R08	R09	R10	R11	R12	R13	R14	R15	R16
Spain	11	29	19	21	27	6	23	23	20	52	58	78	22	25	28	101
Sri Lanka	60	29	75	39	42	45	41	55	68	61	25	28	73	81	89	67
Sweden	25	3	3	1	16	10	7	5	7	9	89	102	2	5	7	53
Switzerland	2	2	2	3	9	2	21	1	2	23	48	91	1	24	3	25
Tajikistan	106	29	107	39	64	78	92	60	98	20	46	7	76	88	71	75
Tanzania	100	29	84	39	99	95	87	92	97	58	13	23	78	91	109	14
Thailand	45	29	47	39	69	49	47	25	53	59	67	53	43	37	27	2
The FYR Macedonia	42	29	36	39	60	40	30	52	57	83	42	58	51	6	68	105
Tunisia	49	29	38	39	68	51	53	75	70	50	77	47	62	62	77	100
Turkey	46	29	39	36	62	57	51	42	39	64	88	63	36	56	49	87
Uganda	98	29	71	39	94	96	90	90	106	67	3	22	85	83	98	4
Ukraine	68	29	67	39	31	69	39	68	80	1	66	65	42	64	97	64
United Kingdom	14	21	13	11	8	16	23	6	15	32	72	89	5	3	17	24
United States	47	13	12	18	6	28	33	2	5	68	105	107	4	4	12	28
Uruguay	30	29	43	39	49	36	43	56	29	70	63	68	56	68	23	80
Venezuela	73	29	76	39	51	62	56	104	28	91	57	67	104	110	59	61
Viet Nam	58	29	83	39	75	52	65	46	79	57	49	33	40	66	69	6
Zambia	92	29	81	39	78	97	96	94	92	107	8	10	109	72	87	63
Zimbabwe	83	29	77	39	81	101	98	101	95	80	18	18	107	103	101	26