



2018 WORLD STATE OF QUALITY



## FOREWORD

In a globalized world, rankings and benchmarks are useful in different sectors of activity and countries in order to better make comparisons of performance across organizations and territories. Several studies and reports are often released, allowing the identification of strengths, gaps and areas for improvement, as well as to better define the way to follow.

The studies and reports published regularly in different sectors of activity and countries intend to characterize how countries perform regarding specific issues in terms of quality and compiling different information and data.

The World State of Quality (WSQ) aims to understand how countries deal with macroquality issues using data from different indicators and dimensions that are online available in many sources of statistical information, allowing one to characterize the level of Quality in each analyzed country.

After the first worldwide edition and report in 2017 comprising 110 countries, the 2018 WSQ edition was expanded to 118 countries from all over the world.

We believe that this is an enriching and pioneering approach to assess Quality worldwide. However, the WSQ team is quite open to receive 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!

Portugal, February of 2020

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## LIST OF ABBREVIATURES

AHC.....	Agglomerative Hierarchical Clustering
ARWU.....	Academic Ranking of World Universities
BMO.....	Birth Mortality Rate
ECO.....	Ecological Footprint
EDB.....	Ease of Doing Business Results
EDU.....	Education Index
EEL.....	Employee Engagement Index
EQS.....	European Quality Scoreboard
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
ISA.....	ISO 14001 Certified Organizations
ISI.....	Institute for Scientific Information (Web of Knowledge)
ISO.....	ISO 9001 Certified Organizations
Ixx.....	Indicator number
OWSQ.....	Overall WSQ Ranking Score
PAP.....	Number of Indexed Quality Papers Published
pc.....	per capita
PC1.....	First Principal Component
PCA.....	Principal Component Analysis
Rxx.....	Ranking number
The FYR Macedonia.....	The Former Yugoslav Republic of Macedonia
UNI.....	Number of Universities in International Research Rankings
UNPD.....	United Nations Development Programme
WEF.....	World Economic Forum
WHI.....	World Happiness Index
WHO.....	World Health Organization
WSQ.....	World State of Quality

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## EXECUTIVE SUMMARY

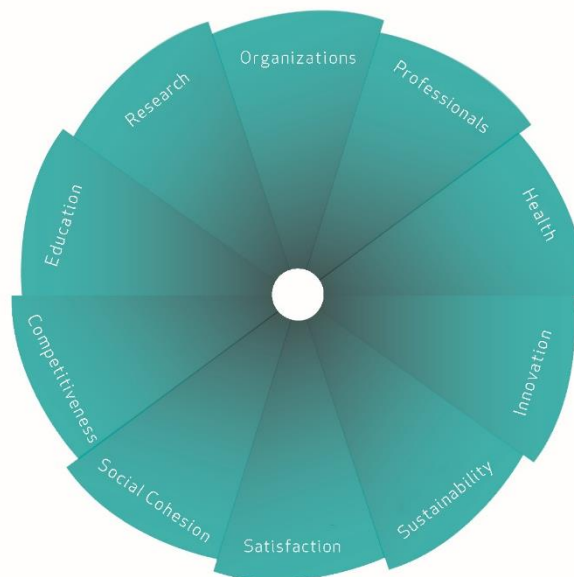
The World State of Quality (WSQ) project aims the assessment, analysis and ranking of worldwide countries according to their levels of multidimensional quality performance in a way that is inspired by what has already been made for other areas or sectors of activity.

The first edition of this approach was undertaken for the 28 European Union members and it was called European Quality Scoreboard (EQS). It regarded the 2016 results and it was composed by 10 dimensions and a total of 21 quality related indicators.

Later on, 2017 results were the first worldwide approach and 110 countries were analyzed in a model composed by 10 dimensions and 16 quality related indicators. The second worldwide edition relates to 2018 results and comprises 118 countries based on a model composed by 10 dimensions and 16 indicators. Some indicators were changed from the 2017 edition. The indicators, methodology, data and results are presented in this report.

### World State of Quality Indicators and Results

A model composed by 10 dimensions and 16 quality related indicators is the basis of the 2018 WSQ edition that intends to assess the macroquality level of a country. The results are based on the latest values available at mid-2018 for each indicator and country considered in the 2018 edition. The 16 indicators are divided across 10 dimensions as it possible to observe in the following picture



Data was compiled and analysed and an overall score was computed based on the ranking position from each country for each considered country (in a total of 118).

Based on that overall score (overall World State of Quality score – OWSQ), 4 different groups arose: leader, follower, moderate, and beginner. This division, based on the overall score, was obtained and it is the result of each country performance.

	Country	OWSQ	
1	Switzerland	19.301	LEADER
2	Sweden	19.369	
3	Norway	19.537	
4	Finland	20.828	
5	Denmark	21.948	
6	Netherlands	23.221	
7	Australia	23.520	
8	Ireland	23.732	
9	Germany	24.167	
10	United Kingdom	25.784	
11	Canada	26.891	
12	Austria	26.895	
13	Czech Republic	27.821	
14	Israel	27.928	
15	United States of America	28.219	
16	Estonia	29.030	
17	Slovenia	29.197	
18	Belgium	30.656	
19	Spain	31.860	
20	Japan	32.054	
21	Malta	32.551	
22	France	32.889	
23	Portugal	33.106	
24	Luxembourg	33.370	
25	Korea, Republic of (South)	33.401	
26	Slovakia	33.824	
27	Italy	34.236	
28	Romania	37.490	FOLLOWER
29	Cyprus	37.510	
30	Poland	37.666	
31	Chile	40.236	
32	Latvia	40.324	
33	Serbia	40.423	
34	Hungary	40.574	
35	Croatia	41.149	
36	Lithuania	41.377	
37	Greece	42.227	
38	Malaysia	42.607	
39	Thailand	43.682	
40	Bulgaria	44.189	
41	Costa Rica	44.216	
42	Uruguay	44.824	
43	Montenegro	45.793	
44	Colombia	48.777	MODERATE
45	Russian Federation	48.853	
46	Mexico	49.471	
47	Mauritius	49.787	
48	The FYR of Macedonia	50.314	
49	Argentina	50.558	
50	Kazakhstan	50.753	
51	Panama	51.057	
52	Albania	52.821	
53	Turkey	52.875	
54	China	53.031	
55	Georgia	53.048	
56	Brazil	55.676	
57	Peru	56.077	
58	Bosnia and Herzegovina	56.623	
59	Jamaica	56.717	

	Country	OWSQ	
60	Jordan	57.855	MODERATE
61	Moldova, Republic of	57.977	
62	Ecuador	58.456	
63	Sri Lanka	58.974	
64	Philippines	59.373	
65	Armenia	60.018	
66	Ukraine	61.142	
67	Viet Nam	61.217	
68	Lebanon	61.515	
69	Tunisia	61.996	
70	El Salvador	63.336	
71	Morocco	63.407	
72	Azerbaijan	63.504	
73	Iran, Islamic Republic of	63.605	
74	Indonesia	65.067	
75	Mongolia	65.307	
76	South Africa	65.342	
77	Dominican Republic	67.217	
78	Guatemala	67.623	
79	India	68.238	
80	Kyrgyzstan	68.886	
81	Honduras	69.995	
82	Algeria	71.385	
83	Egypt	72.131	
84	Botswana	72.739	
85	Nicaragua	73.100	
86	Venezuela	73.141	
87	Namibia	73.512	
88	Paraguay	74.245	
89	Kenya	74.448	
90	Nepal	74.678	
91	Bolivia	75.097	
92	Bangladesh	75.331	
93	Cambodia	75.635	
94	Rwanda	75.839	
95	Tajikistan	76.926	
96	Bhutan	78.693	BEGINNER
97	Pakistan	79.061	
98	Senegal	79.063	
99	Ghana	80.455	
100	Zambia	82.197	
101	Tanzania, United Republic of	82.788	
102	Lesotho	84.294	
103	Angola	85.075	
104	Uganda	85.164	
105	Nigeria	86.104	
106	Madagascar	86.363	
107	Malawi	86.565	
108	Zimbabwe	86.863	
109	Côte d'Ivoire	87.179	
110	Mozambique	87.390	
111	Mali	87.611	
112	Guinea	87.627	
113	Cameroon	88.537	
114	Burundi	88.897	
115	Ethiopia	89.957	
116	Burkina Faso	92.764	
117	Benin	93.024	
118	Yemen	93.898	

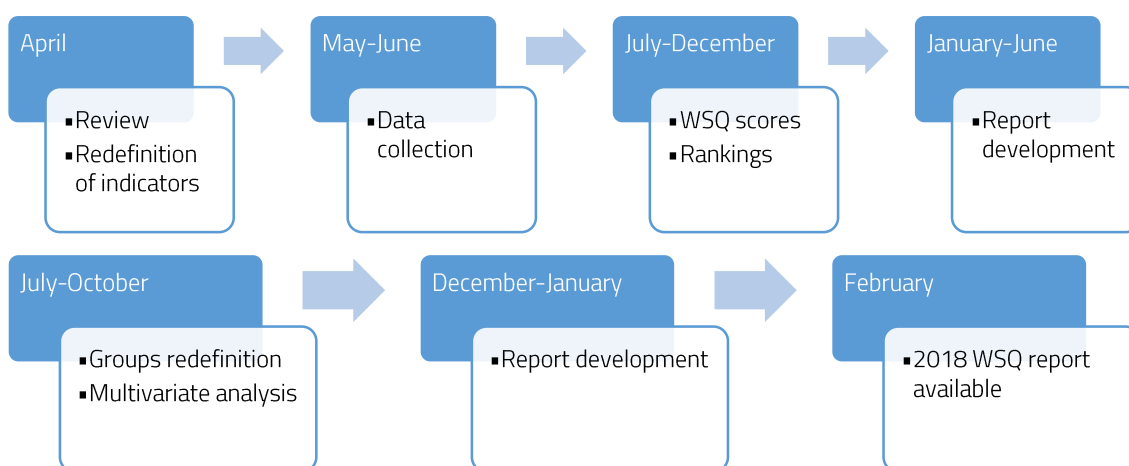
## WSQ Report Structure

This report explains the 2018 WSQ approach, the research methodology and the indicators considered. Further, the results analysis is presented as well as a specific country profile for each country with general results and data for each indicator. Some more detailed and additional information is in the end of the report (Annexes).

## Project Timeline for the 2018 WSQ

The 2018 WSQ approach had some changes related to the previous edition, namely regarding some indicators of the model. The data collected for the 2018 is the latest data available for WSQ indicator as of mid of 2018.

The project timeline for the 2018 WSQ followed several steps and milestones, as it is shown below.



## INTRODUCTION AND INDICATORS

The World State of Quality (WSQ) approach intends to understand how each country performs at a macroquality level. The 2018 edition comprises 118 countries and 16 quality related indicators covering different 10 quality dimensions.

Data was collected for each country and for each indicator and a final overall WSQ score was computed for each country. This result allows the characterization of each country highlighting strengths and improvement and priorities areas, and enhancing the potential of this valuable tool for national and international institutions and organizations of a given country.

The WSQ approach comes from a multidimensional perspective of the quality to understand quality country profiles, shown in Figure 1. This perspective lies on different dimensions of time and space and how one can deal with quality challenges and problems

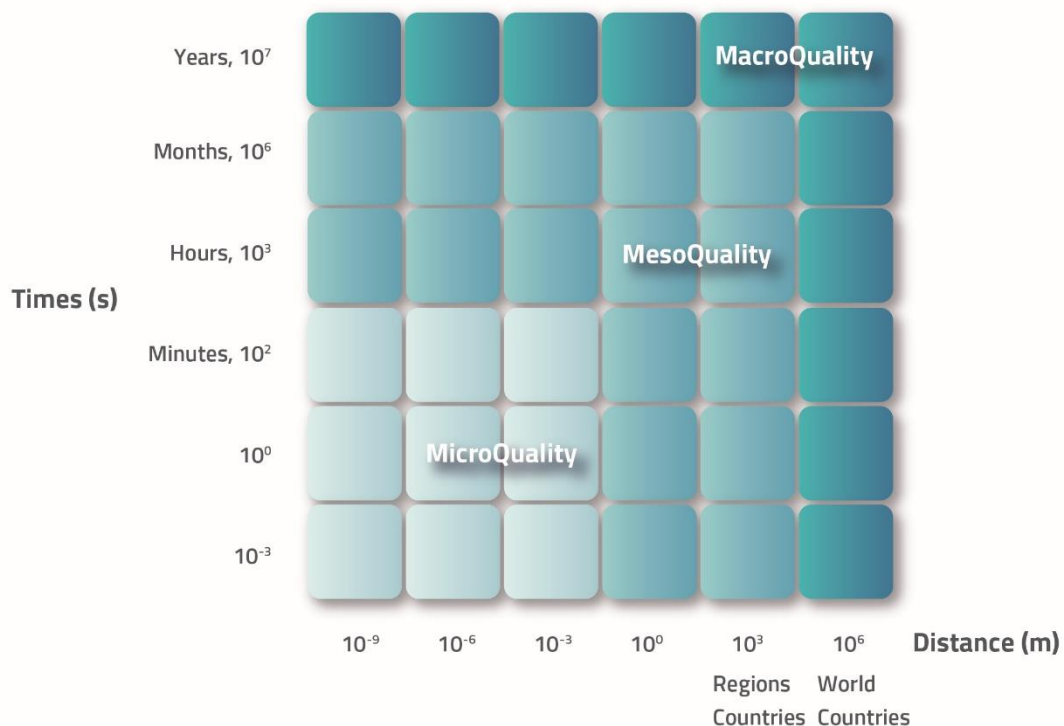


Figure 1 - Multidimensional quality.

Figure 1 presents, in a figurative way, the range in terms of time and space of the multidimensional quality, as it is a dynamic model focusing on the combination on top down and bottom up perspectives that highlights the deployment of quality in different dimensions enhancing the “glocal quality” characterization. The WSQ project lies on the macroquality dimension.

A first approach and attempt to understand the macroquality of each country was made in 2016 for all the 28 European Union countries based on 21 quality related indicators. Later on, 2017 edition was the first worldwide attempt of the WSQ project through an adaptation and expansion of the methodology and



approach of the 2016 European Quality Scoreboard. It was needed to redefine and update the indicators in order to cover as many countries as possible. The 2017 WSQ approach was composed by 10 quality dimensions and 16 quality related indicators. For the 2018 edition, a new reformulation was made to allow a better fit of the model. The number of indicators and dimensions were maintained. However, two indicators were replaced by the following ones: Number of ISO 14001 Certified Organizations and Employee Engagement Index. Using the most recent data available as of June 2018 from public databases or published reports, it was possible to come up with an analysis of the macroquality performance level for 118 countries, from all the continents and the model is shown in Figure 2.

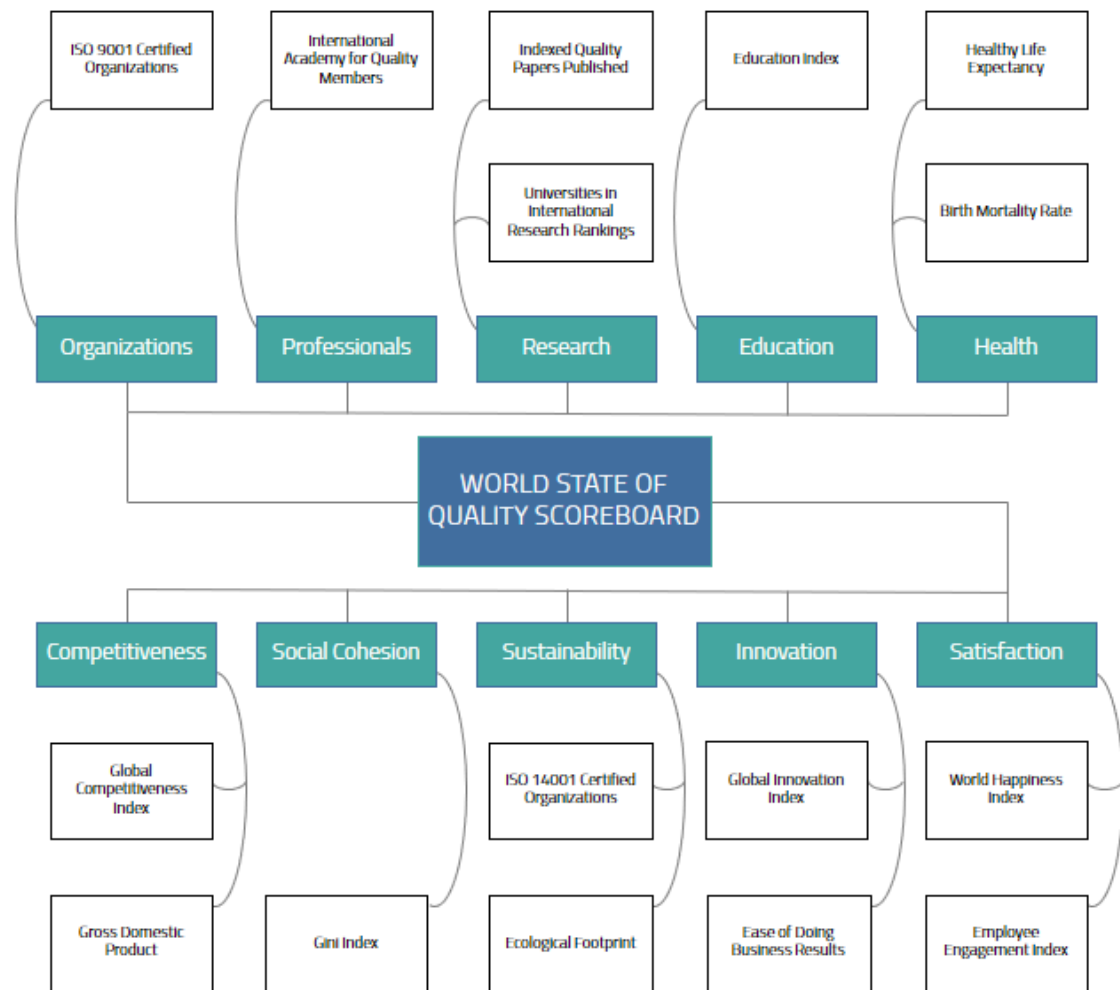


Figure 2 - World State of Quality model dimensions and indicators.

The quality dimensions of the WSQ approach intend to characterize the efforts that are being made to support, develop and promote macroquality performances. A brief description of each dimension is now given:

1. Organizations: the number of entities certified according to relevant quality standards;
2. Professionals: the number of quality professionals recognized according to relevant processes and organizations;

3. Research: the intensity and recognition of research activities carried out, namely those related with the quality field;
4. Education: indicators related to the quality of education;
5. Health: the quality achieved in this sector and its impacts over personal lives;
6. Competitiveness: competitiveness ranking results and Gross Domestic Product values achieved;
7. Social Cohesion: wealth distribution in terms of inequality values;
8. Sustainability: environmental related indicators in terms of preservation of natural resources, reduction of negative impacts and environmental standards;
9. Innovation: innovation ranking results and the influence of appropriate tools and approaches to do business;
10. Satisfaction: perceptions of citizens about the quality of life and their involvement in their jobs.

Each dimension is considered a specific area that allows the characterization of macroquality performance level and has one or two indicators, as shown in Table 1.

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	Number of ISO 14001 Certified Organizations
	Ecological Footprint
Innovation	Global Innovation Index
	Ease of Doing Business Results
Satisfaction	World Happiness Index
	Employee Engagement Index

For some indicators, scaled values were needed to a better comparison between countries of different sizes. This was achieved by computing the corresponding values per 1,000 inhabitants depending on the population size of each country. More detailed information is given in the methodology section.

A brief description of the 16 indicators of the 2018 WSQ approach is now presented, although a more complete list of indicators, data sources and computations performed is provided in Annex 1.

#### 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) in a per 1,000 inhabitants' basis.

### 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) in a per 1,000 inhabitants' basis.

### 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) in a per 1,000 inhabitants' basis.

### 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) in a per 1,000 inhabitants' basis.

### 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 1,000 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 – Number of ISO 14001 Certified Organizations

This indicator measures the number of valid ISO 14001 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) in a per 1,000 inhabitants' basis.

#### 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 – Employee Engagement Index

This indicator measures the level of engagement within an organization which is correlated with performance and innovation in terms of attitude and behavior, and it is associated to motivation and personal productivity levels of employees coming from the involvement, commitment, energy and desire to do a good job, as it is a proxy for satisfaction.

More information related to data source and more details about the indicators can be found in Annex 1 and Annex 2.

## WORLD STATE OF QUALITY METHODOLOGY AND MAIN RESULTS

The WSQ2018 is the second worldwide approach to assess the macroquality performance of countries. 118 countries were analyzed based on a model composed by 10 dimensions and 16 quality related indicators. Data was collected based on the latest values available at mid-2018 for each indicator and country and 16x118 matrix was developed.

Some indicators were replaced in this edition to a better fit. The new indicators are “Number of ISO 14001 Certified Organizations” in the “Sustainability” dimension, and “Employee Engagement Index” in the “Satisfaction” dimension.

For all such indicators, and whenever needed, scaled values were used. Scaled values were computed for “Number of ISO 9001 Certified Organizations”, “Number of International Academy for Quality Members”, “Number of Indexed Quality Papers Published”, “Number of Universities in International Research Rankings”, and “Number of ISO 14001 Certified Organizations” indicators in order to allow for comparisons to be made between countries of different sizes. This scaling step was made using the values per 1,000 inhabitants taking into account the populations for each of the considered countries.

This data matrix is composed by all the data values. The following step was the replacement of these values by the relative position of each country according to each of the indicators, thus resulting in a new data matrix with scores ranging from 1 (best performance) to 118 (worst performance) for each indicator. When the same value was found for more than one country, they got the same ranking position.

As all the data matrix was filled with ranking positions (rather than the absolute values), then the overall WSQ score was computed. A weighted average was used according to the importance of each quality indicator to the overall quality performance because the contribution is considered to be more or less relevant for the global overall WSQ score. The importance values were the same defined in the WSQ2017 edition, even for the indicators that were replaced in this edition. The above methodology allowed to get the final overall WSQ score for each country of the 118 countries considered in the study.

Then, a set of categories was determined based on the overall WSQ score by using the principle to define groups with scores with similar values. For that, several multivariate statistical analyzes were performed, such as Principal Component Analysis and Cluster Analysis. The Clustering Analysis was used to get the final categories of countries. The normal and natural grouping of data came up with 4 clusters. A grey zone was identified in these 3 areas that allow the definition of 4 groups, which was based on the difference between the overall WSQ score of the country  $i$  and the country  $i-1$ . The divisions were made whenever a higher difference was found for the overall WSQ scores 32-42, 48-57 and 68-81. The 4 final categories of countries thus obtained are named as follows (according to ranking positions): Leader (1-27), Follower (28-43), Moderate (44-95), and Beginner (96-118), as shown in Table 2.

Table 2 - Final overall 2018 WSQ scores obtained

	Country	OWSQ		Country	OWSQ		
1	Switzerland	19.301	LEADER	60	Jordan	57.855	MODERATE
2	Sweden	19.369		61	Moldova, Republic of	57.977	
3	Norway	19.537		62	Ecuador	58.456	
4	Finland	20.828		63	Sri Lanka	58.974	
5	Denmark	21.948		64	Philippines	59.373	
6	Netherlands	23.221		65	Armenia	60.018	
7	Australia	23.520		66	Ukraine	61.142	
8	Ireland	23.732		67	Viet Nam	61.217	
9	Germany	24.167		68	Lebanon	61.515	
10	United Kingdom	25.784		69	Tunisia	61.996	
11	Canada	26.891		70	El Salvador	63.336	
12	Austria	26.895		71	Morocco	63.407	
13	Czech Republic	27.821		72	Azerbaijan	63.504	
14	Israel	27.928		73	Iran, Islamic Republic of	63.605	
15	United States of America	28.219		74	Indonesia	65.067	
16	Estonia	29.030		75	Mongolia	65.307	
17	Slovenia	29.197		76	South Africa	65.342	
18	Belgium	30.656		77	Dominican Republic	67.217	
19	Spain	31.860		78	Guatemala	67.623	
20	Japan	32.054		79	India	68.238	
21	Malta	32.551		80	Kyrgyzstan	68.886	
22	France	32.889		81	Honduras	69.995	
23	Portugal	33.106		82	Algeria	71.385	
24	Luxembourg	33.370		83	Egypt	72.131	
25	Korea, Republic of (South)	33.401		84	Botswana	72.739	
26	Slovakia	33.824		85	Nicaragua	73.100	
27	Italy	34.236		86	Venezuela	73.141	
28	Romania	37.490	87	Namibia	73.512		
29	Cyprus	37.510	88	Paraguay	74.245		
30	Poland	37.666	89	Kenya	74.448		
31	Chile	40.236	90	Nepal	74.678		
32	Latvia	40.324	91	Bolivia	75.097		
33	Serbia	40.423	92	Bangladesh	75.331		
34	Hungary	40.574	93	Cambodia	75.635		
35	Croatia	41.149	94	Rwanda	75.839		
36	Lithuania	41.377	95	Tajikistan	76.926		
37	Greece	42.227	96	Bhutan	78.693	BEGINNER	
38	Malaysia	42.607	97	Pakistan	79.061		
39	Thailand	43.682	98	Senegal	79.063		
40	Bulgaria	44.189	99	Ghana	80.455		
41	Costa Rica	44.216	100	Zambia	82.197		
42	Uruguay	44.824	101	Tanzania, United Republic of	82.788		
43	Montenegro	45.793	102	Lesotho	84.294		
44	Colombia	48.777	103	Angola	85.075		
45	Russian Federation	48.853	104	Uganda	85.164		
46	Mexico	49.471	105	Nigeria	86.104		
47	Mauritius	49.787	106	Madagascar	86.363		
48	The FYR of Macedonia	50.314	107	Malawi	86.565		
49	Argentina	50.558	108	Zimbabwe	86.863		
50	Kazakhstan	50.753	109	Côte d'Ivoire	87.179		
51	Panama	51.057	110	Mozambique	87.390		
52	Albania	52.821	111	Mali	87.611		
53	Turkey	52.875	112	Guinea	87.627		
54	China	53.031	113	Cameroon	88.537		
55	Georgia	53.048	114	Burundi	88.897		
56	Brazil	55.676	115	Ethiopia	89.957		
57	Peru	56.077	116	Burkina Faso	92.764		
58	Bosnia and Herzegovina	56.623	117	Benin	93.024		
59	Jamaica	56.717	118	Yemen	93.898		

The overall WSQ score range from 19.301, for Switzerland, and 93.898, for Yemen, which are the first and the last country in the WSQ ranking, respectively. The performance of each country in the different indicators and dimensions considered gives several quality profiles associated with each one of the countries under analysis. It can be pointed out that the world geography is associated with diverse ways and situations related to the macroquality level of a country.

Once again, no single country outperforms or underperforms the others for all the indicators considered. This means that no single country is able to lead in all or most of the indicators and, on the other hand, the last ranking country is not the worst country across all or most of the indicators. Switzerland is the first country of the ranking produced with an overall WSQ score of 19.301, which means that, on average, this country occupies the 19<sup>th</sup> position across the considered indicators. Looking deeper into the Switzerland profile, this country got the first position for some indicators, but also the ninety seventh one for other over the 118 countries considered in this study. Yemen, on the other side of the ranking, got, on average, the 93<sup>rd</sup> position across the considered indicators, as its overall score is 93.898. The individual indicator ranking positions of Yemen ranges between the 10<sup>th</sup> and 118<sup>th</sup> position.

The overall WSQ score reflects how each country looks into quality, as well as their strengths and weaknesses. No single country out or underperforms the quality across the considered indicators, which means that there is no single way to implement quality worldwide, its interpretation and diversity come up with different group of countries, as illustrated in Figure 3.

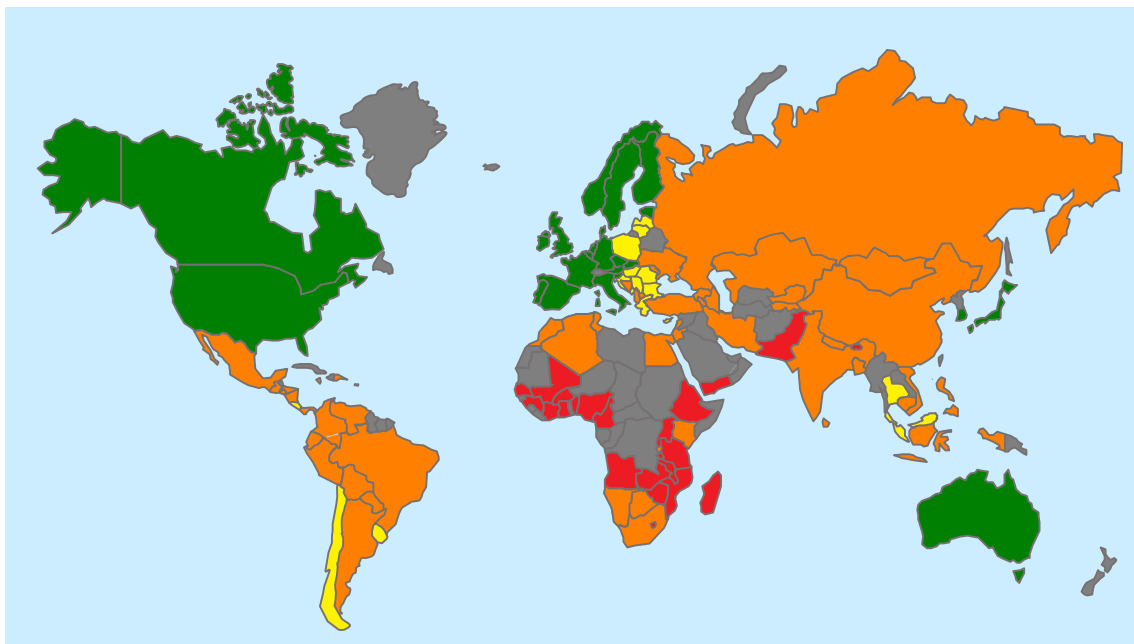
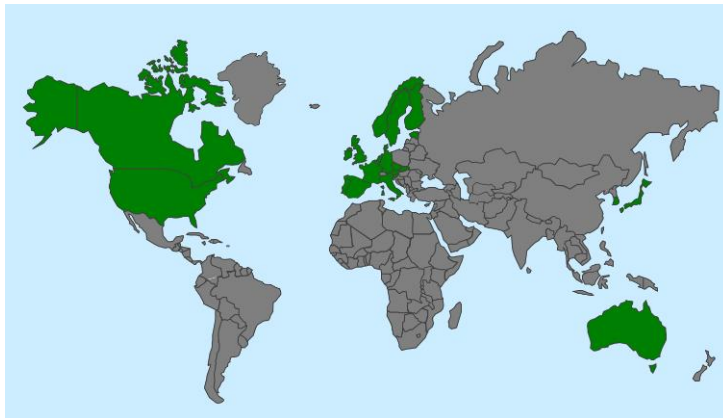


Figure 3 - Country performance according to 2018 overall WSQ scores (green: leader; yellow: follower; orange: moderate; red: beginner; grey: no data available).

The four groups of countries that come up in the 2018 WSQ are now analyzed in a deeper detail.



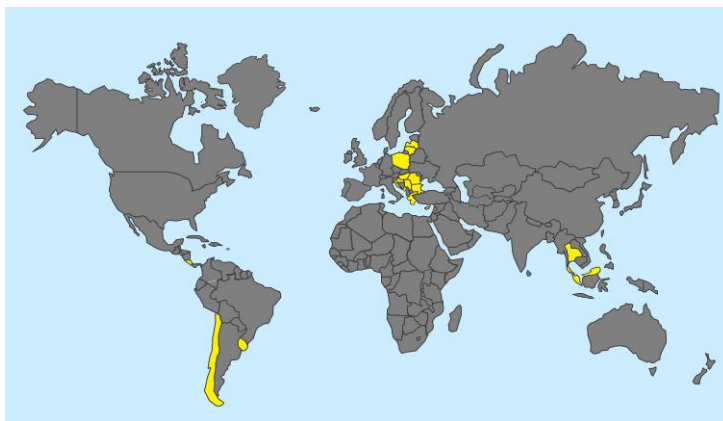


(South), Slovakia, and Italy. The overall WSQ scores in the Leader group range from 19.301 and 34.236. One can observe that some North American, European and Oriental countries are Leader countries.

### Leader

The Leader group has 27 countries: Switzerland, Norway, Finland, Denmark, Netherlands, Australia, Ireland, Germany, Sweden, United Kingdom, Canada, Austria, Czech Republic, Israel, United States of America, Estonia, Slovenia, Belgium, Spain, Japan, Malta, France, Portugal, Luxembourg, Republic of Korea

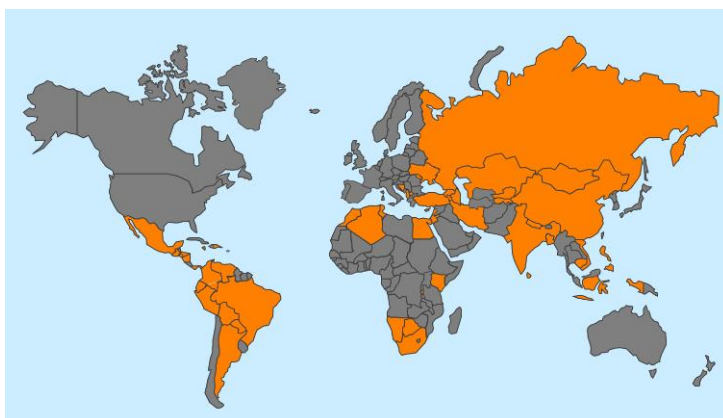
### Follower



countries.

The Follower group has 16 countries: Romania, Cyprus, Poland, Chile, Latvia, Serbia, Hungary, Croatia, Lithuania, Greece, Malaysia, Thailand, Bulgaria, Costa Rica, Uruguay, and Montenegro. The overall WSQ scores in the Follower group range from 37.490 and 45.793. Some American, Eastern European and South Asian countries are Follower

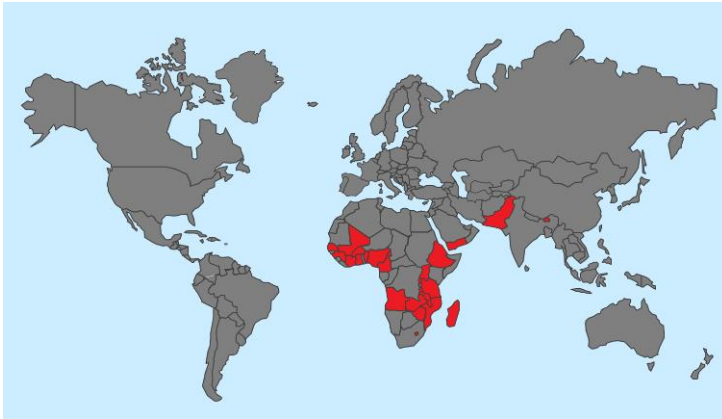
### Moderate



Tunisia, El Salvador, Morocco, Azerbaijan, Islamic Republic of Iran, Indonesia, Mongolia, South Africa, Dominican Republic, Guatemala, India, Kyrgyzstan, Honduras, Algeria, Egypt, Botswana, Nicaragua, Venezuela, Namibia, Paraguay, Kenya, Nepal, Bolivia, Bangladesh, Cambodia, Rwanda, and Tajikistan. The overall WSQ scores range from 48.777 and 76.926. This is the most heterogeneous group and comprises countries from all continents.

The Moderate group has 52 countries: Colombia, Russian Federation, Mexico, Mauritius, The FYR of Macedonia, Argentina, Kazakhstan, Panama, Albania, Turkey, China, Georgia, Brazil, Peru, Bosnia and Herzegovina, Jamaica, Jordan, Republic of Moldova, Ecuador, Sri Lanka, Philippines, Armenia, Ukraine, Viet Nam, Lebanon,

## Beginner



The Beginner group has 23 countries: Bhutan, Pakistan, Senegal, Ghana, Zambia, United Republic of Tanzania, Lesotho, Angola, Uganda, Nigeria, Madagascar, Malawi, Zimbabwe, Côte d'Ivoire, Mozambique, Mali, Guinea, Cameroon, Burundi, Ethiopia, Burkina Faso, Benin, and Yemen. The overall WSQ scores range from 78.693 and

93.898. This group is mainly composed by African countries, some Asian countries are also Beginner countries.

## WSQ – MAIN MULTIVARIATE STATISTICAL RESULTS

A multivariate statistical analysis was performed based on ranking positions of the 2018 WSQ, including agglomerative hierarchical clustering (AHC) and Principal Component Analysis (PCA). Some notes should be taken into account before the presentation of the multivariate statistical data analysis outcomes: only rank data was analyzed; data was preprocessed so that every indicator is of the type “more is better”; rank data was not autoscaled for clustering; rank data was autoscaled for PCA analysis. The analysis presented in this section complements and consolidates the results of 2018 WSQ highlighting some additional insights and conclusions.

### Principal Component Analysis

Principal Component Analysis (PCA) was applied to the data set shown in Annex 3, revealing a strong latent variable structure with the first principal component (PC1), explaining approximately 70% of the total variation in the data set (Figure 4). This highlights a clear and strong backbone in the linear combination of the indicators, when compared with the smaller contributions that come from the other principal components.

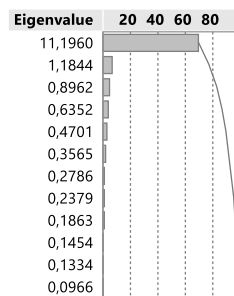


Figure 4 - PCA analysis: the successive principal components.

A comparison between the overall WSQ scores and the scores of the principal component was also performed (Figure 5). It is clear the association between PC1 and WSQ scores, reinforcing the statistical consistency of the 2018 WSQ results.



Figure 5 - Overall WSQ scores versus scores of the first principal component.

## Clustering

Clustering analysis was conducted in order to find the natural groups formed across the 118 countries. Figure 6 presents a hierarchical clustering perspective and it is possible to identify two groups that come from a first partition, one including 43 countries (this group has countries from Leader and Follower categories, except three of them that belong to the other group of this first partition), and the other containing the remaining 75 countries (the countries from Moderate and Beginner categories, except three of them that belong to the previous group of the partition). If we look into 4 groups formed by the partitions, composed by 26 (blue), 17 (red), 47 (green), and 28 (purple), they can be associated to the categories Leader, Follower, Moderate, and Beginner, respectively, with the exception of two or three countries in one of each 4 groups. Thus, the cluster constellation plot is quite consistent with the 2018 overall WSQ scores and the categories derived from it.

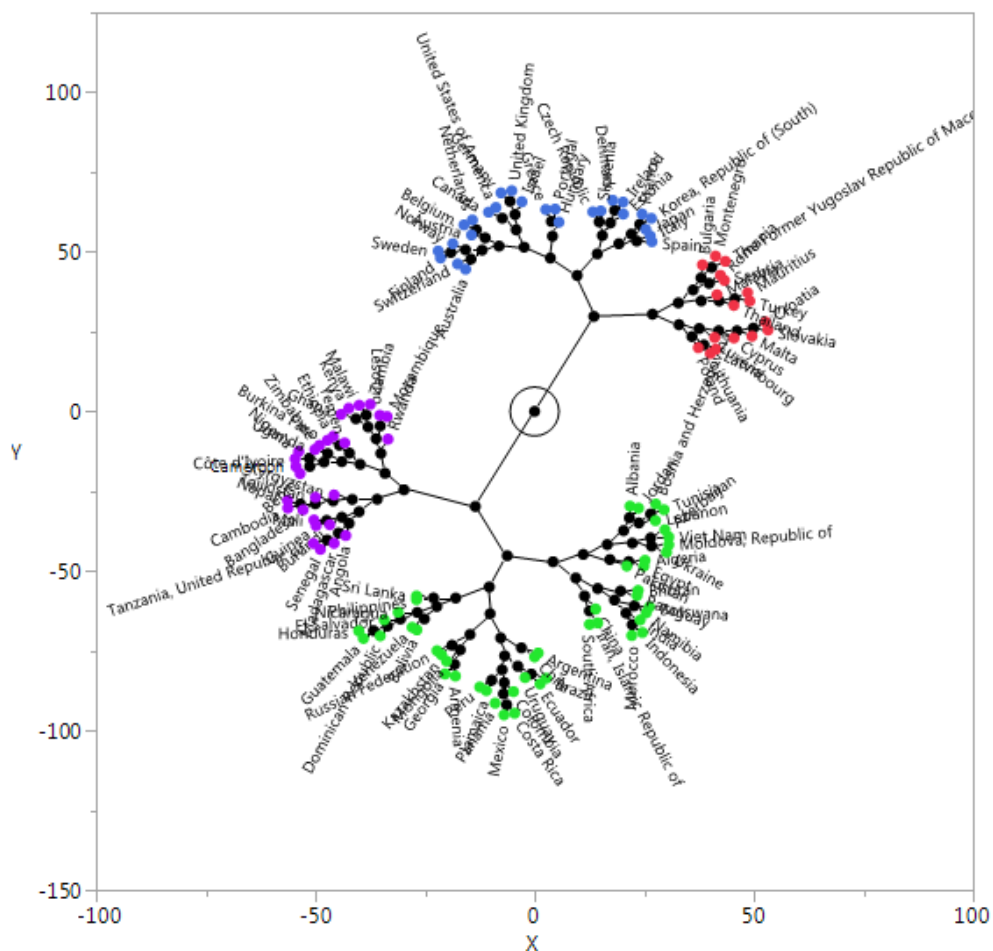


Figure 6 - Cluster constellation plot position for the 118 countries.

A dendrogram was also computed with the ranking data and Figure 7 shows the 4 clusters that result using this technique. The similarity between these clusters and the categories of groups of the 2018 WSQ results is easily identifiable. Further, even the cluster constellation plot and the dendrogram also highlight the proximity to geographical region of each group.

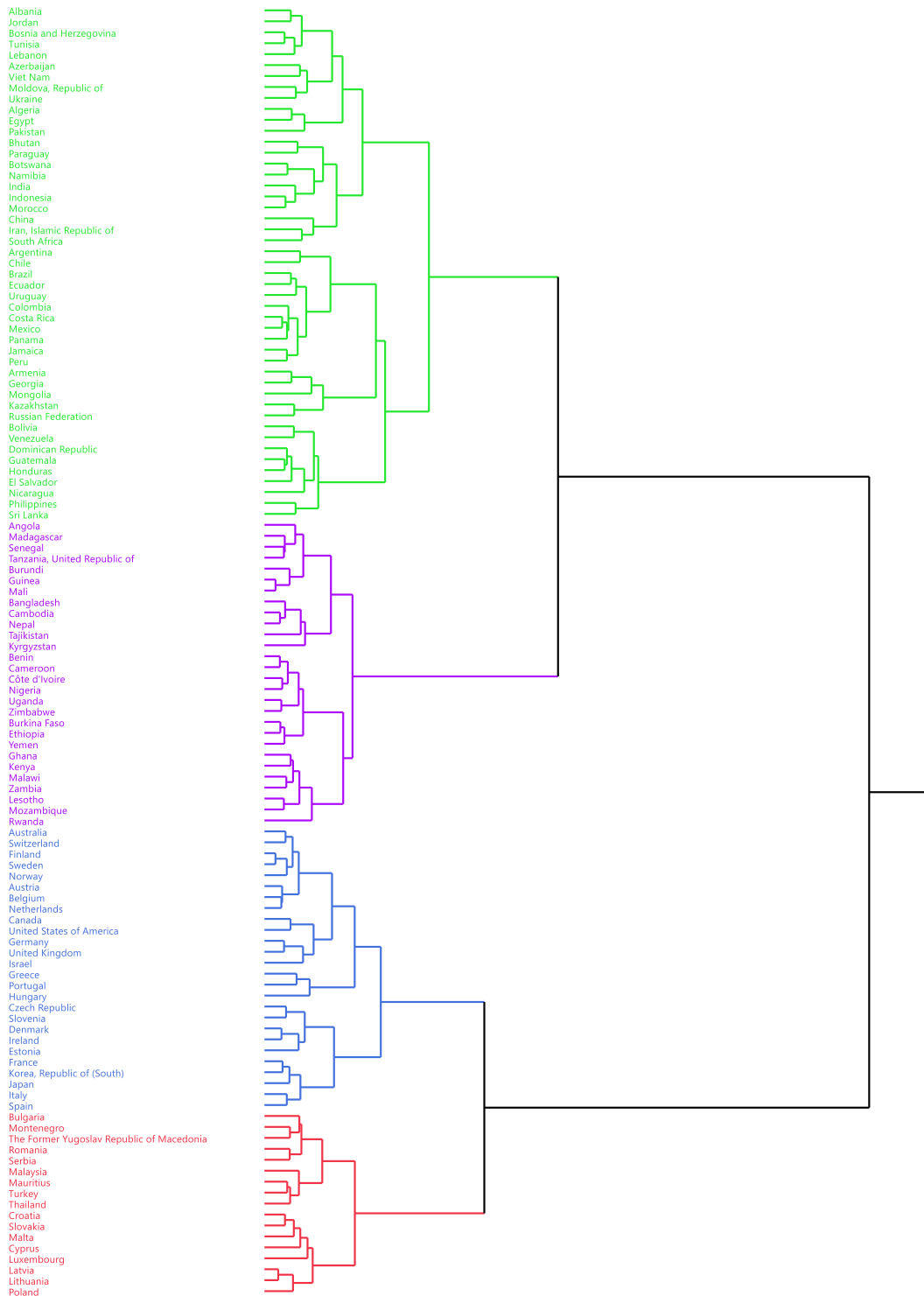


Figure 7 - Dendrogram obtained for the 118 countries using ranking values for the indicators.

## Comparison of multivariate versus univariate clustering

A comparison of multivariate and univariate clustering was performed in order to a better understanding of the categories highlighting that the natural data grouping results in 4 groups with scores with similar values. The methodology used followed this comparison, shown in Figure 8, allowed the definition of 4 groups of countries in the 2018 WSQ results, besides the assumptions made after the calculation of the overall WSQ score for each country.

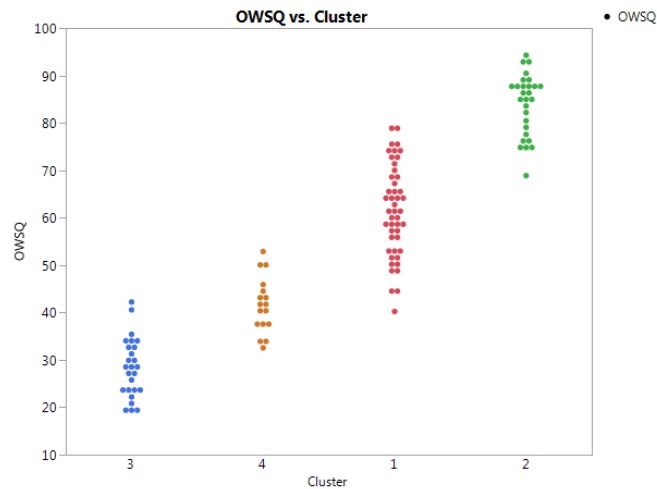


Figure 8 - Comparison of multivariate versus univariate clustering.

## Quality Profiles

A closer look into each category of countries highlights similar behavior in the same category, more than from the geographical context. For example, Figure 9 shows the quality profile for the countries of the Leader group. A first impression is the not so good performance in the I12 (ecological Footprint) and I16 (Employee engagement index). On the other hand, a good global performance can be observed in the indicators of Organizations, Professionals, Research, Education, Health, Competitiveness, and Innovation. These countries are better located in these dimensions that others. Looking into this graph it can be easily identified where this group of countries should focus to improve quality performance.

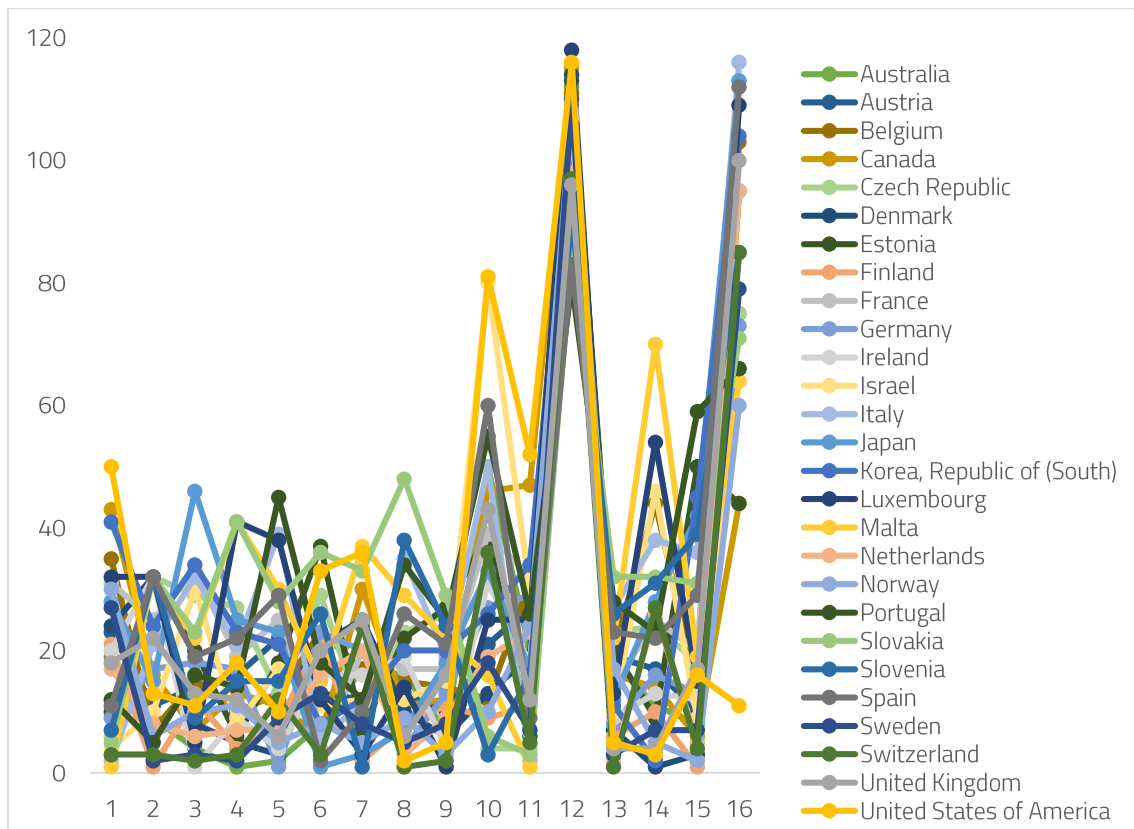


Figure 9 - Leader group quality profile.

## COUNTRY PROFILES

This section describes each of the 118 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 (2017): .....

OWSQ 2018

Rank .....

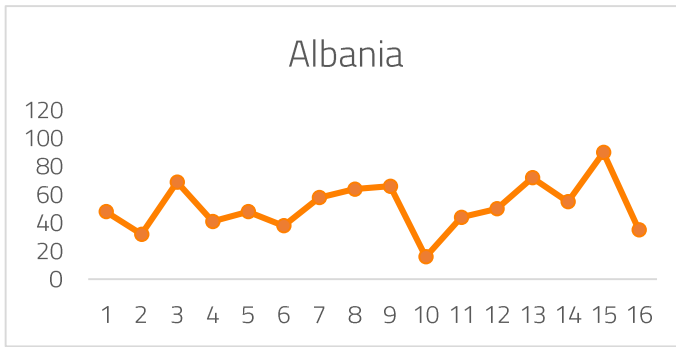
Score: .....

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. ISO 14001 Certified Organizations *1 .....		
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. Employment Engagement Index *4 .....		

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

## ALBANIA



Population (2017): .....2 873 457

### OWSQ 2018

Rank ..... 52

Score: ..... 52.821

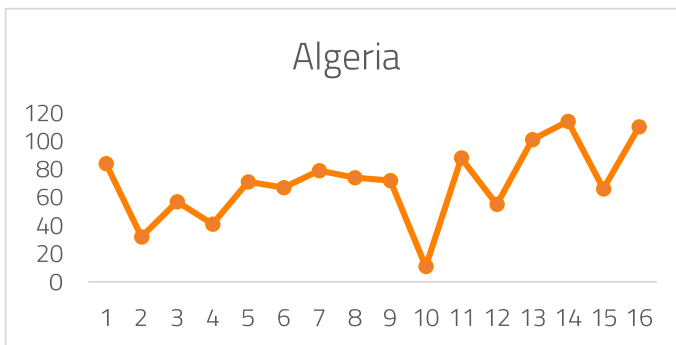
Quality group: ..... **MODERATE**

	Rank	Value
I01. ISO 9001 Certified Organizations *1	48	0.10962
I02. International Academy for Quality Members *1	32	0.0000000
I03. Indexed Quality Papers Published *1	69	0.00487
I04. Universities in International Research Rankings *1	41	0.0000000
I05. Education Index *2	48	0.745
I06. Healthy Life Expectancy *3	38	68.1
I07. At Birth Mortality Rate *4	58	12.0
I08. Global Competitiveness Index *2	64	4.185

	Rank	Value
I09. Gross Domestic Product *5	66	4537.86
I10. Gini Index *4	16	29.0
I11. ISO 14001 Certified Organizations *1	44	0.03863
I12. Ecological Footprint *6	50	2.142
I13. Global Innovation Index *2	72	30.0
I14. Ease of Doing Business Results *7	55	68.70
I15. World Happiness Index *2	90	4.586
I16. Employment Engagement Index *4	35	22.5

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

## ALGERIA



Population (2017): .....41 318 142

### OWSQ 2018

Rank ..... 82

Score: ..... 71.385

Quality group: ..... **MODERATE**

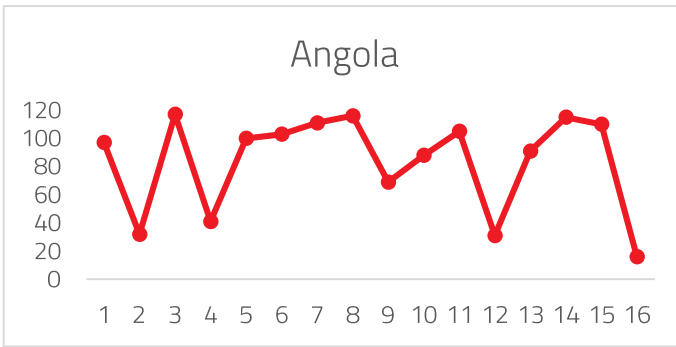
	Rank	Value
I01. ISO 9001 Certified Organizations *1	84	0.01314
I02. International Academy for Quality Members *1	32	0.0000000
I03. Indexed Quality Papers Published *1	57	0.00871
I04. Universities in International Research Rankings *1	41	0.0000000
I05. Education Index *2	71	0.664
I06. Healthy Life Expectancy *3	67	65.5
I07. At Birth Mortality Rate *4	79	21.6
I08. Global Competitiveness Index *2	74	4.066

	Rank	Value
I09. Gross Domestic Product *5	72	4123.39
I10. Gini Index *4	11	27.6
I11. ISO 14001 Certified Organizations *1	88	0.00244
I12. Ecological Footprint *6	55	2.449
I13. Global Innovation Index *2	101	23.9
I14. Ease of Doing Business Results *7	114	46.71
I15. World Happiness Index *2	66	5.295
I16. Employment Engagement Index *4	110	8.0

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



## ANGOLA



Population (2017): .....29 784 193

### OWSQ 2018

Rank ..... 103

Score: .....85.075

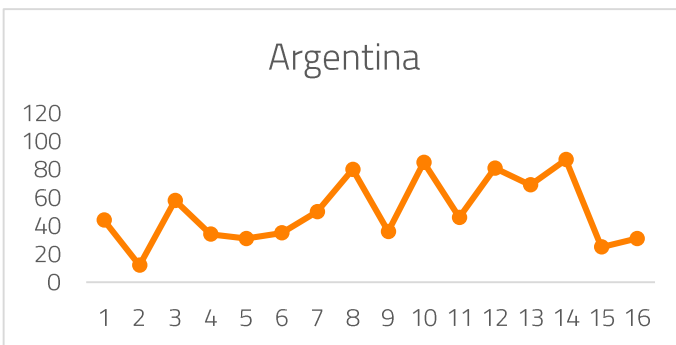
Quality group: ..... **BEGINNER**

	Rank	Value
I01. ISO 9001 Certified Organizations *1	97	0.00302
I02. International Academy for Quality Members *1	32	0.0000000
I03. Indexed Quality Papers Published *1	117	0.00013
I04. Universities in International Research Rankings *1	41	0.0000000
I05. Education Index *2	100	0.498
I06. Healthy Life Expectancy *3	103	55.8
I07. At Birth Mortality Rate *4	111	54.6
I08. Global Competitiveness Index *2	116	3.038

	Rank	Value
I09. Gross Domestic Product *5	69	4170.31
I10. Gini Index *4	88	42.7
I11. ISO 14001 Certified Organizations *1	105	0.00050
I12. Ecological Footprint *6	31	1.559
I13. Global Innovation Index *2	91	26.2
I14. Ease of Doing Business Results *7	115	41.49
I15. World Happiness Index *2	110	3.795
I16. Employment Engagement Index *4	16	31.0

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

## ARGENTINA



Population (2017): .....44 271 041

### OWSQ 2018

Rank ..... 49

Score: .....50.558

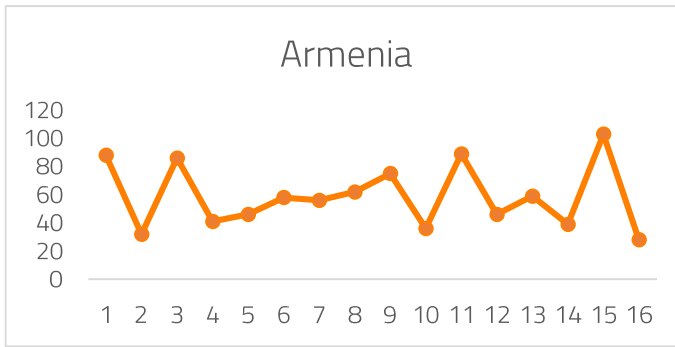
Quality group: ..... **MODERATE**

	Rank	Value
I01. ISO 9001 Certified Organizations *1	44	0.15945
I02. International Academy for Quality Members *1	12	0.0001129
I03. Indexed Quality Papers Published *1	58	0.00838
I04. Universities in International Research Rankings *1	34	0.0000226
I05. Education Index *2	31	0.816
I06. Healthy Life Expectancy *3	35	68.4
I07. At Birth Mortality Rate *4	50	9.9
I08. Global Competitiveness Index *2	80	3.951

	Rank	Value
I09. Gross Domestic Product *5	36	14401.97
I10. Gini Index *4	85	42.4
I11. ISO 14001 Certified Organizations *1	46	0.03657
I12. Ecological Footprint *6	81	3.690
I13. Global Innovation Index *2	69	30.7
I14. Ease of Doing Business Results *7	87	58.11
I15. World Happiness Index *2	25	6.388
I16. Employment Engagement Index *4	31	24.4

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

## ARMENIA



Population (2017): .....2 930 450

### OWSQ 2018

Rank ..... 65

Score: ..... 60.018

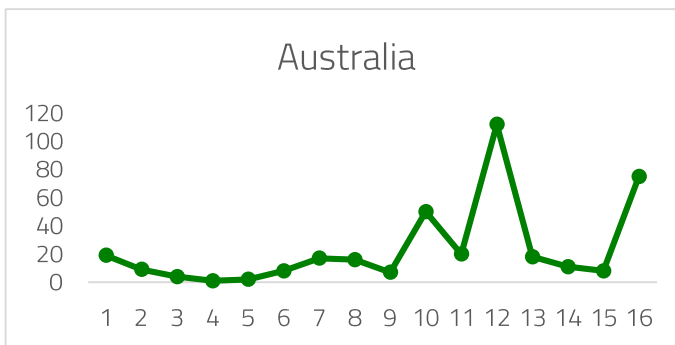
Quality group: ..... **MODERATE**

	Rank	Value
I01. ISO 9001 Certified Organizations *1	88	0.00955
I02. International Academy for Quality Members *1	32	0.0000000
I03. Indexed Quality Papers Published *1	86	0.00239
I04. Universities in International Research Rankings *1	41	0.0000000
I05. Education Index *2	46	0.749
I06. Healthy Life Expectancy *3	58	66.3
I07. At Birth Mortality Rate *4	56	11.9
I08. Global Competitiveness Index *2	62	4.191

	Rank	Value
I09. Gross Domestic Product *5	75	3936.80
I10. Gini Index *4	36	32.5
I11. ISO 14001 Certified Organizations *1	89	0.00239
I12. Ecological Footprint *6	46	2.019
I13. Global Innovation Index *2	59	32.8
I14. Ease of Doing Business Results *7	39	72.51
I15. World Happiness Index *2	103	4.321
I16. Employment Engagement Index *4	28	25.5

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

## AUSTRALIA



Population (2017): .....24 598 933

### OWSQ 2018

Rank ..... 7

Score: ..... 23.520

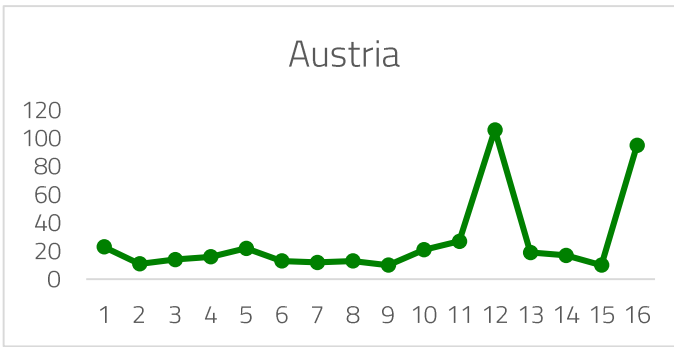
Quality group: ..... **LEADER**

	Rank	Value
I01. ISO 9001 Certified Organizations *1	19	0.51892
I02. International Academy for Quality Members *1	9	0.0001626
I03. Indexed Quality Papers Published *1	4	0.20944
I04. Universities in International Research Rankings *1	1	0.0011383
I05. Education Index *2	2	0.929
I06. Healthy Life Expectancy *3	8	73.0
I07. At Birth Mortality Rate *4	17	3.1
I08. Global Competitiveness Index *2	16	5.192

	Rank	Value
I09. Gross Domestic Product *5	7	53799.94
I10. Gini Index *4	50	34.7
I11. ISO 14001 Certified Organizations *1	20	0.17265
I12. Ecological Footprint *6	112	6.886
I13. Global Innovation Index *2	18	52.0
I14. Ease of Doing Business Results *7	11	80.14
I15. World Happiness Index *2	8	7.272
I16. Employment Engagement Index *4	75	14.3

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

## AUSTRIA



Population (2017): .....8 809 212

### OWSQ 2018

Rank ..... 12

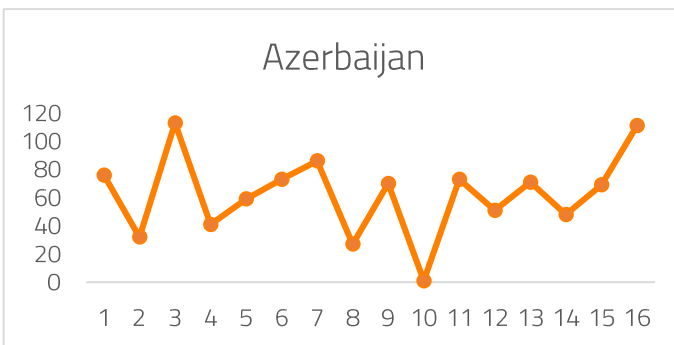
Score: ..... 26.895

Quality group: ..... **LEADER**

	Rank	Value		Rank	Value
I01. ISO 9001 Certified Organizations *1	23	0.44522	I09. Gross Domestic Product *5	10	47290.91
I02. International Academy for Quality Members *1	11	0.0001135	I10. Gini Index *4	21	30.5
I03. Indexed Quality Papers Published *1	14	0.15745	I11. ISO 14001 Certified Organizations *1	27	0.13509
I04. Universities in International Research Rankings *1	16	0.0004541	I12. Ecological Footprint *6	106	5.876
I05. Education Index *2	22	0.852	I13. Global Innovation Index *2	19	51.3
I06. Healthy Life Expectancy *3	13	72.4	I14. Ease of Doing Business Results *7	17	78.54
I07. At Birth Mortality Rate *4	12	2.9	I15. World Happiness Index *2	10	7.139
I08. Global Competitiveness Index *2	13	5.247	I16. Employment Engagement Index *4	95	12.2

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

## AZERBAIJAN



Population (2017): .....9 862 429

### OWSQ 2018

Rank ..... 72

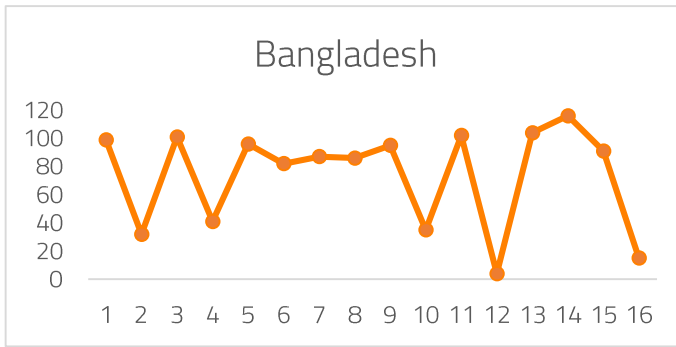
Score: ..... 63.504

Quality group: ..... **MODERATE**

	Rank	Value		Rank	Value
I01. ISO 9001 Certified Organizations *1	76	0.02231	I09. Gross Domestic Product *5	70	4131.62
I02. International Academy for Quality Members *1	32	0.0000000	I10. Gini Index *4	1	16.6
I03. Indexed Quality Papers Published *1	113	0.00041	I11. ISO 14001 Certified Organizations *1	73	0.00689
I04. Universities in International Research Rankings *1	41	0.0000000	I12. Ecological Footprint *6	51	2.170
I05. Education Index *2	59	0.709	I13. Global Innovation Index *2	71	30.2
I06. Healthy Life Expectancy *3	73	64.9	I14. Ease of Doing Business Results *7	48	70.19
I07. At Birth Mortality Rate *4	86	27.2	I15. World Happiness Index *2	69	5.201
I08. Global Competitiveness Index *2	27	4.690	I16. Employment Engagement Index *4	111	7.2

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

## BANGLADESH



Population (2017): ..... 164 669 751

### OWSQ 2018

Rank ..... 92

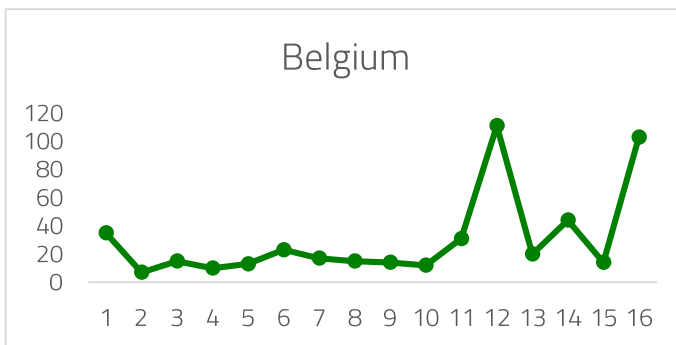
Score: ..... 75.331

Quality group: ..... **MODERATE**

Rank	Value	Rank	Value
I01. ISO 9001 Certified Organizations *1	99.....0.00285	I09. Gross Domestic Product *5	95..... 1516.51
I02. International Academy for Quality Members *1	32.0.0000000	I10. Gini Index *4	35.....32.4
I03. Indexed Quality Papers Published *1	101.....0.00101	I11. ISO 14001 Certified Organizations *1	102..... 0.00072
I04. Universities in International Research Rankings *1	41.0.0000000	I12. Ecological Footprint *6	4.....0.795
I05. Education Index *2	96.....0.508	I13. Global Innovation Index *2	104.....23.1
I06. Healthy Life Expectancy *3	82.....63.3	I14. Ease of Doing Business Results *7	116.....40.99
I07. At Birth Mortality Rate *4	87.....28.2	I15. World Happiness Index *2	91.....4.500
I08. Global Competitiveness Index *2	86.....3.906	I16. Employment Engagement Index *4	15.....15.0

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

## BELGIUM



Population (2017): ..... 11 372 068

### OWSQ 2018

Rank ..... 18

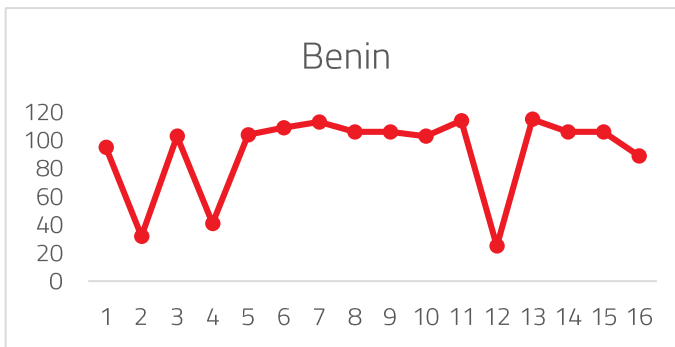
Score: ..... 30.656

Quality group: ..... **LEADER**

Rank	Value	Rank	Value
I01. ISO 9001 Certified Organizations *1	35.....0.31955	I09. Gross Domestic Product *5	14...43323.81
I02. International Academy for Quality Members *1	7.0.0001759	I10. Gini Index *4	12.....27.7
I03. Indexed Quality Papers Published *1	15.....0.15397	I11. ISO 14001 Certified Organizations *1	31..... 0.10262
I04. Universities in International Research Rankings *1	10.0.0006155	I12. Ecological Footprint *6	111.....6.706
I05. Education Index *2	13.....0.893	I13. Global Innovation Index *2	20.....50.5
I06. Healthy Life Expectancy *3	23.....71.6	I14. Ease of Doing Business Results *7	44.....71.69
I07. At Birth Mortality Rate *4	17.....3.1	I15. World Happiness Index *2	14.....6.927
I08. Global Competitiveness Index *2	15.....5.225	I16. Employment Engagement Index *4	103.....10.2

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

## BENIN



Population (2017): ..... 11 175 692

### OWSQ 2018

Rank ..... 117

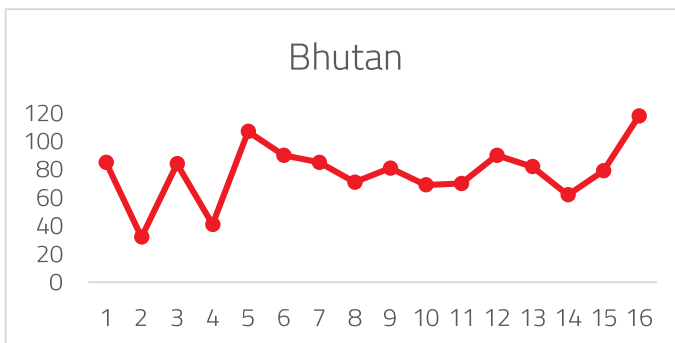
Score: ..... 93.024

Quality group: ..... **BEGINNER**

	Rank	Value		Rank	Value
I01. ISO 9001 Certified Organizations *1	95	0.00358	I09. Gross Domestic Product *5	106	829.80
I02. International Academy for Quality Members *1	32	0.0000000	I10. Gini Index *4	103	47.8
I03. Indexed Quality Papers Published *1	103	0.00098	I11. ISO 14001 Certified Organizations *1	114	0.00009
I04. Universities in International Research Rankings *1	41	0.0000000	I12. Ecological Footprint *6	25	1.356
I05. Education Index *2	104	0.471	I13. Global Innovation Index *2	115	20.6
I06. Healthy Life Expectancy *3	109	53.5	I14. Ease of Doing Business Results *7	106	50.47
I07. At Birth Mortality Rate *4	113	63.1	I15. World Happiness Index *2	106	40141
I08. Global Competitiveness Index *2	106	3.472	I16. Employment Engagement Index *4	89	12.4

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

## BHUTAN



Population (2017): ..... 807 610

### OWSQ 2018

Rank ..... 96

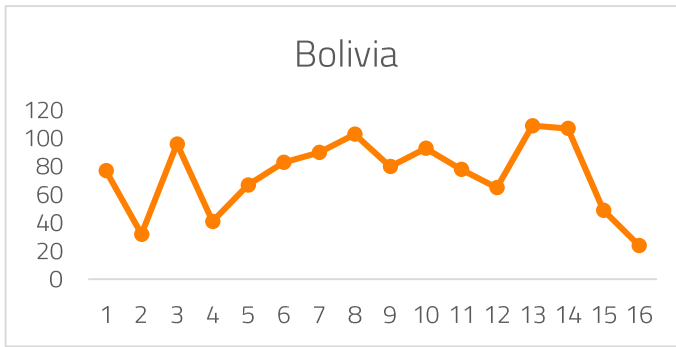
Score: ..... 78.693

Quality group: ..... **BEGINNER**

	Rank	Value		Rank	Value
I01. ISO 9001 Certified Organizations *1	85	0.01114	I09. Gross Domestic Product *5	81	3110.23
I02. International Academy for Quality Members *1	32	0.0000000	I10. Gini Index *4	69	38.8
I03. Indexed Quality Papers Published *1	84	0.00248	I11. ISO 14001 Certified Organizations *1	70	0.00743
I04. Universities in International Research Rankings *1	41	0.0000000	I12. Ecological Footprint *6	90	4.635
I05. Education Index *2	107	0.445	I13. Global Innovation Index *2	82	27.9
I06. Healthy Life Expectancy *3	90	60.7	I14. Ease of Doing Business Results *7	62	66.27
I07. At Birth Mortality Rate *4	85	26.8	I15. World Happiness Index *2	79	5.082
I08. Global Competitiveness Index *2	71	4.100	I16. Employment Engagement Index *4	118	3.3

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

## BOLIVIA



Population (2017): ..... 11 051 600

### OWSQ 2018

Rank ..... 91

Score: ..... 75.097

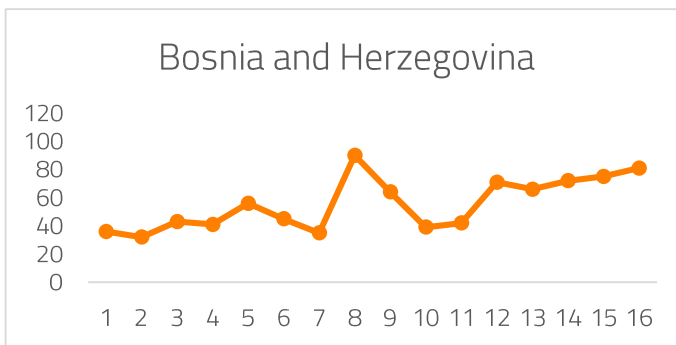
Quality group: ..... **MODERATE**

	Rank	Value
I01. ISO 9001 Certified Organizations *1	77	0.02190
I02. International Academy for Quality Members *1	32	0.0000000
I03. Indexed Quality Papers Published *1	96	0.00136
I04. Universities in International Research Rankings *1	41	0.0000000
I05. Education Index *2	67	0.687
I06. Healthy Life Expectancy *3	83	63.0
I07. At Birth Mortality Rate *4	90	29.5
I08. Global Competitiveness Index *2	103	3.537

	Rank	Value
I09. Gross Domestic Product *5	80	3393.96
I10. Gini Index *4	93	44.6
I11. ISO 14001 Certified Organizations *1	78	0.00471
I12. Ecological Footprint *6	65	3.074
I13. Global Innovation Index *2	109	22.9
I14. Ease of Doing Business Results *7	107	50.18
I15. World Happiness Index *2	49	5.752
I16. Employment Engagement Index *4	24	28.5

\*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 (2017): ..... 3 507 017

### OWSQ 2018

Rank ..... 58

Score: ..... 56.623

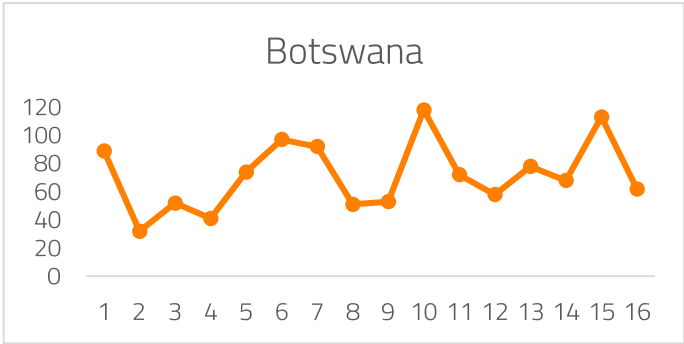
Quality group: ..... **MODERATE**

	Rank	Value
I01. ISO 9001 Certified Organizations *1	36	0.29569
I02. International Academy for Quality Members *1	32	0.0000000
I03. Indexed Quality Papers Published *1	43	0.02253
I04. Universities in International Research Rankings *1	41	0.0000000
I05. Education Index *2	56	0.718
I06. Healthy Life Expectancy *3	45	67.2
I07. At Birth Mortality Rate *4	35	5.2
I08. Global Competitiveness Index *2	90	3.869

	Rank	Value
I09. Gross Domestic Product *5	64	5180.64
I10. Gini Index *4	39	32.7
I11. ISO 14001 Certified Organizations *1	42	0.05703
I12. Ecological Footprint *6	71	3.290
I13. Global Innovation Index *2	66	31.1
I14. Ease of Doing Business Results *7	72	64.2
I15. World Happiness Index *2	75	5.129
I16. Employment Engagement Index *4	81	13.4

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

## BOTSWANA



Population (2017): .....2 291 661

OWSQ 2018

Rank ..... 84

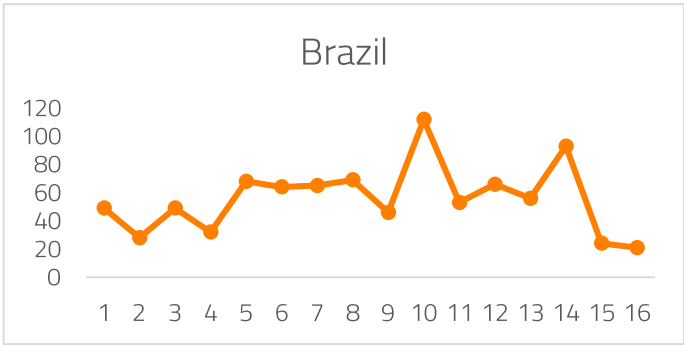
Score: ..... 72.739

Quality group: ..... **MODERATE**

	Rank	Value		Rank	Value
I01. ISO 9001 Certified Organizations *1	89	0.00916	I09. Gross Domestic Product *5	53	7595.60
I02. International Academy for Quality Members *1	32	0.0000000	I10. Gini Index *4	118	64.7
I03. Indexed Quality Papers Published *1	52	0.01353	I11. ISO 14001 Certified Organizations *1	72	0.00698
I04. Universities in International Research Rankings *1	41	0.0000000	I12. Ecological Footprint *6	58	2.537
I05. Education Index *2	74	0.659	I13. Global Innovation Index *2	78	28.2
I06. Healthy Life Expectancy *3	97	57.5	I14. Ease of Doing Business Results *7	68	64.94
I07. At Birth Mortality Rate *4	92	32.6	I15. World Happiness Index *2	113	3.590
I08. Global Competitiveness Index *2	51	4.304	I16. Employment Engagement Index *4	62	16.4

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

## BRAZIL



Population (2017): ..... 209 288 278

OWSQ 2018

Rank ..... 56

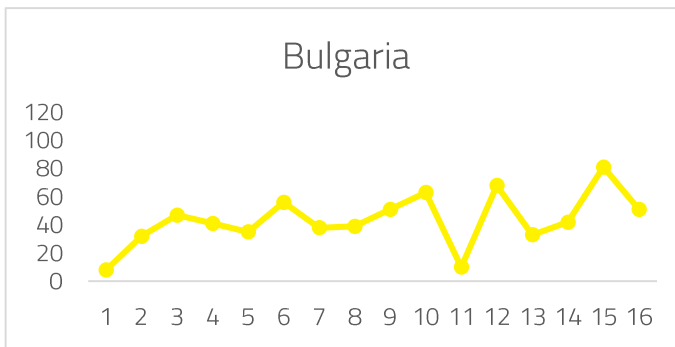
Score: ..... 55.676

Quality group: ..... **MODERATE**

	Rank	Value		Rank	Value
I01. ISO 9001 Certified Organizations *1	49	0.09990	I09. Gross Domestic Product *5	46	9821.41
I02. International Academy for Quality Members *1	28	0.0000096	I10. Gini Index *4	112	51.3
I03. Indexed Quality Papers Published *1	49	0.01570	I11. ISO 14001 Certified Organizations *1	53	0.01470
I04. Universities in International Research Rankings *1	32	0.0000287	I12. Ecological Footprint *6	66	3.078
I05. Education Index *2	68	0.686	I13. Global Innovation Index *2	56	33.4
I06. Healthy Life Expectancy *3	64	66.0	I14. Ease of Doing Business Results *7	93	56.45
I07. At Birth Mortality Rate *4	65	13.5	I15. World Happiness Index *2	24	6.419
I08. Global Competitiveness Index *2	69	4.135	I16. Employment Engagement Index *4	21	29.5

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

## BULGARIA



Population (2017): .....7 075 991

## OWSQ 2018

Rank ..... 40

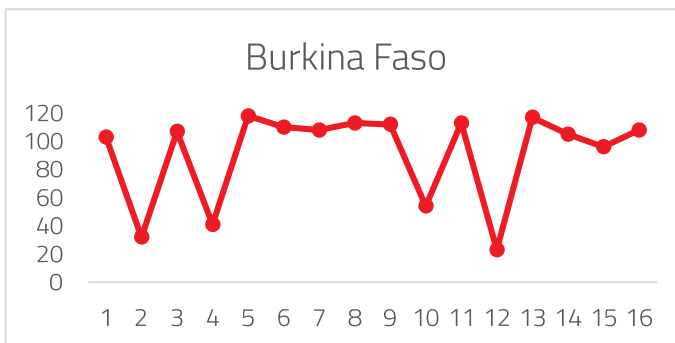
Score: ..... 44.189

Quality group: ..... **FOLLOWER**

Rank	Value	Rank	Value
I01. ISO 9001 Certified Organizations *1	8.....0.84101	I09. Gross Domestic Product *5	51 ..... 8031.60
I02. International Academy for Quality Members *1	32.0.0000000	I10. Gini Index *4	63.....37.4
I03. Indexed Quality Papers Published *1	47.....0.01880	I11. ISO 14001 Certified Organizations *1	10.....0.2577
I04. Universities in International Research Rankings *1	41.0.0000000	I12. Ecological Footprint *6	68.....3.170
I05. Education Index *2	35.....0.805	I13. Global Innovation Index *2	33.....42.6
I06. Healthy Life Expectancy *3	56.....66.4	I14. Ease of Doing Business Results *7	42.....71.91
I07. At Birth Mortality Rate *4	38.....6.5	I15. World Happiness Index *2	81.....4.933
I08. Global Competitiveness Index *2	39.....4.463	I16. Employment Engagement Index *4	51 .....18.3

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

## BURKINA FASO



Population (2017): ..... 19 193 382

## OWSQ 2018

Rank ..... 116

Score: ..... 92.764

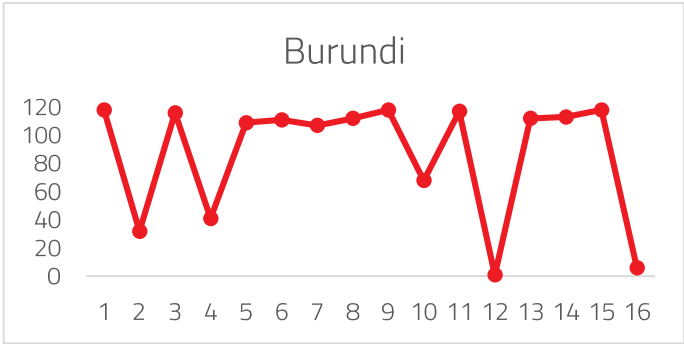
Quality group: ..... **BEGINNER**

Rank	Value	Rank	Value
I01. ISO 9001 Certified Organizations *1	103.....0.00261	I09. Gross Domestic Product *5	112.....670.71
I02. International Academy for Quality Members *1	32.0.0000000	I10. Gini Index *4	54 .....35.3
I03. Indexed Quality Papers Published *1	107.....0.00089	I11. ISO 14001 Certified Organizations *1	113.....0.00010
I04. Universities in International Research Rankings *1	41.0.0000000	I12. Ecological Footprint *6	23.....1.312
I05. Education Index *2	118.....0.286	I13. Global Innovation Index *2	117.....18.9
I06. Healthy Life Expectancy *3	110.....52.9	I14. Ease of Doing Business Results *7	105.....51.54
I07. At Birth Mortality Rate *4	108.....52.7	I15. World Happiness Index *2	96.....4.424
I08. Global Competitiveness Index *2	113.....3.205	I16. Employment Engagement Index *4	108.....8.3

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



## BURUNDI



Population (2017): ..... 10 864 245

OWSQ 2018

Rank ..... 114

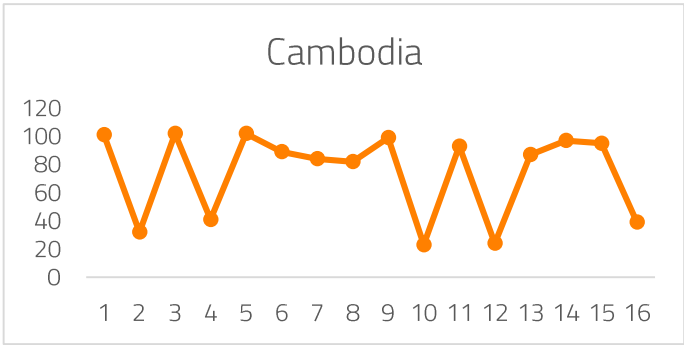
Score: ..... 88.897

Quality group: ..... **BEGINNER**

	Rank	Value		Rank	Value
I01. ISO 9001 Certified Organizations *1	118	0.00000	I09. Gross Domestic Product *5	118	320.09
I02. International Academy for Quality Members *1	32	0.0000000	I10. Gini Index *4	68	38.6
I03. Indexed Quality Papers Published *1	116	0.00018	I11. ISO 14001 Certified Organizations *1	117	0.00000
I04. Universities in International Research Rankings *1	41	0.0000000	I12. Ecological Footprint *6	1	0.605
I05. Education Index *2	109	0.424	I13. Global Innovation Index *2	112	21.3
I06. Healthy Life Expectancy *3	111	52.6	I14. Ease of Doing Business Results *7	113	46.92
I07. At Birth Mortality Rate *4	107	48.4	I15. World Happiness Index *2	118	2.905
I08. Global Competitiveness Index *2	112	3.215	I16. Employment Engagement Index *4	6	35.0

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

## CAMBODIA



Population (2017): ..... 16 005 373

OWSQ 2018

Rank ..... 93

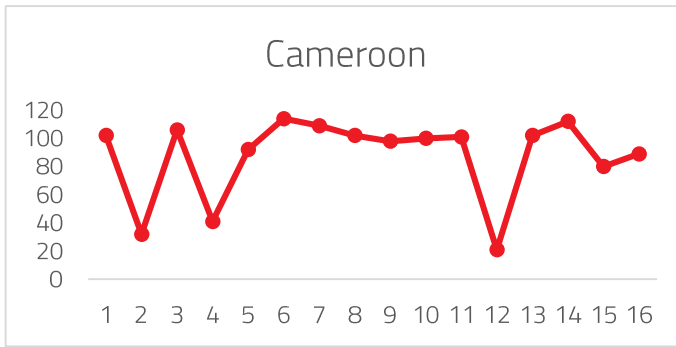
Score: ..... 75.635

Quality group: ..... **MODERATE**

	Rank	Value		Rank	Value
I01. ISO 9001 Certified Organizations *1	101	0.00281	I09. Gross Domestic Product *5	99	1384.42
I02. International Academy for Quality Members *1	32	0.0000000	I10. Gini Index *4	23	30.8
I03. Indexed Quality Papers Published *1	102	0.00100	I11. ISO 14001 Certified Organizations *1	93	0.00137
I04. Universities in International Research Rankings *1	41	0.0000000	I12. Ecological Footprint *6	24	1.318
I05. Education Index *2	102	0.487	I13. Global Innovation Index *2	87	26.7
I06. Healthy Life Expectancy *3	89	60.8	I14. Ease of Doing Business Results *7	97	54.47
I07. At Birth Mortality Rate *4	84	26.3	I15. World Happiness Index *2	95	4.433
I08. Global Competitiveness Index *2	82	3.932	I16. Employment Engagement Index *4	39	21.5

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

## CAMEROON



Population (2017): .....24 053 727

### OWSQ 2018

Rank ..... 113

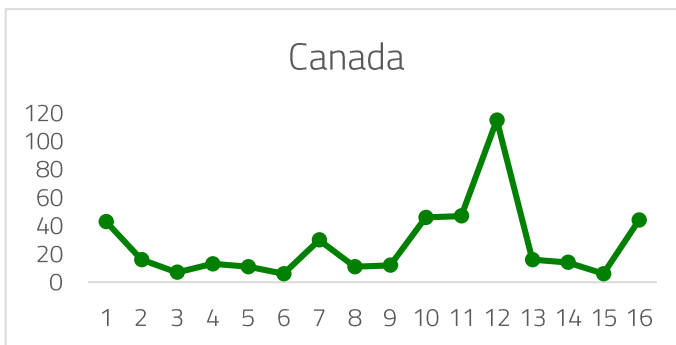
Score: .....88.537

Quality group: ..... **BEGINNER**

	Rank	Value		Rank	Value
I01. ISO 9001 Certified Organizations *1 .....	102	0.00262	I09. Gross Domestic Product *5 .....	98	1446.70
I02. International Academy for Quality Members *1 .....	32	0.0000000	I10. Gini Index *4 .....	100	46.6
I03. Indexed Quality Papers Published *1 .....	106	0.00096	I11. ISO 14001 Certified Organizations *1 .....	101	0.00075
I04. Universities in International Research Rankings *1 ...	41	0.0000000	I12. Ecological Footprint *6 .....	21	1.274
I05. Education Index *2 .....	92	0.547	I13. Global Innovation Index *2 .....	102	23.8
I06. Healthy Life Expectancy *3 .....	114	51.1	I14. Ease of Doing Business Results *7 .....	112	47.23
I07. At Birth Mortality Rate *4 .....	109	52.8	I15. World Happiness Index *2 .....	80	4.975
I08. Global Competitiveness Index *2 .....	102	3.651	I16. Employment Engagement Index *4 .....	89	12.4

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

## CANADA



Population (2017): .....36 708 083

### OWSQ 2018

Rank ..... 11

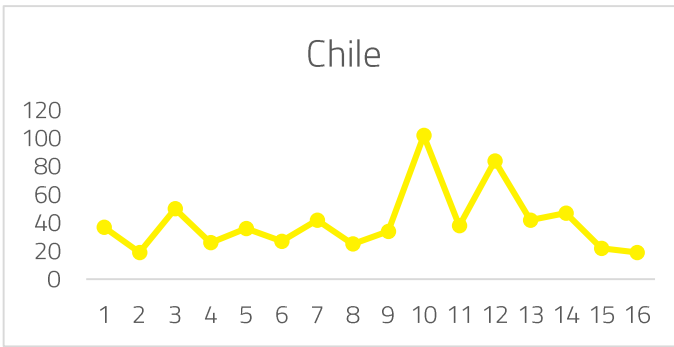
Score: .....26.891

Quality group: ..... **LEADER**

	Rank	Value		Rank	Value
I01. ISO 9001 Certified Organizations *1 .....	43	0.18391	I09. Gross Domestic Product *5 .....	12	45032.12
I02. International Academy for Quality Members *1 .....	16	0.0000817	I10. Gini Index *4 .....	46	34.0
I03. Indexed Quality Papers Published *1 .....	7	0.19639	I11. ISO 14001 Certified Organizations *1 .....	47	0.03533
I04. Universities in International Research Rankings *1 ...	13	0.0005176	I12. Ecological Footprint *6 .....	115	8.050
I05. Education Index *2 .....	11	0.899	I13. Global Innovation Index *2 .....	16	53.0
I06. Healthy Life Expectancy *3 .....	6	73.2	I14. Ease of Doing Business Results *7 .....	14	79.29
I07. At Birth Mortality Rate *4 .....	30	4.3	I15. World Happiness Index *2 .....	6	7.328
I08. Global Competitiveness Index *2 .....	11	5.349	I16. Employment Engagement Index *4 .....	44	20.3

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

## CHILE



Population (2017): ..... 18 054 726

### OWSQ 2018

Rank ..... 31

Score: ..... 40.236

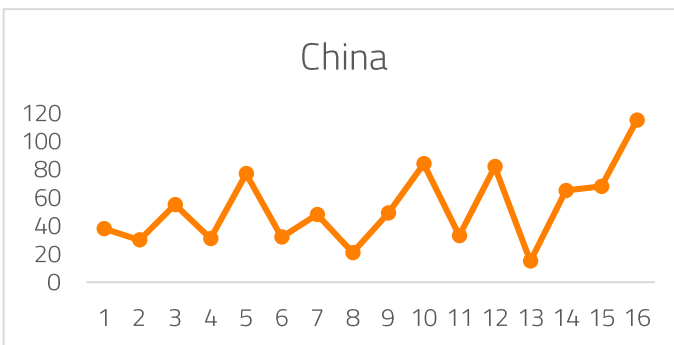
Quality group: ..... **FOLLOWER**

	Rank	Value
I01. ISO 9001 Certified Organizations *1	37	0.27655
I02. International Academy for Quality Members *1	19	0.0000554
I03. Indexed Quality Papers Published *1	50	0.01512
I04. Universities in International Research Rankings *1	26	0.0001108
I05. Education Index *2	36	0.800
I06. Healthy Life Expectancy *3	27	69.7
I07. At Birth Mortality Rate *4	42	7.2
I08. Global Competitiveness Index *2	25	4.709

	Rank	Value
I09. Gross Domestic Product *5	34	15346.45
I10. Gini Index *4	102	47.7
I11. ISO 14001 Certified Organizations *1	38	0.06868
I12. Ecological Footprint *6	84	4.026
I13. Global Innovation Index *2	42	37.8
I14. Ease of Doing Business Results *7	47	71.22
I15. World Happiness Index *2	22	6.476
I16. Employment Engagement Index *4	19	30.4

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

## CHINA



Population (2017): ..... 1 386 395 000

### OWSQ 2018

Rank ..... 54

Score: ..... 53.031

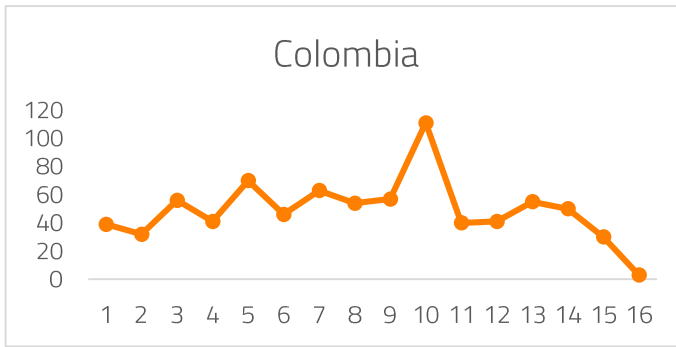
Quality group: ..... **MODERATE**

	Rank	Value
I01. ISO 9001 Certified Organizations *1	38	0.25291
I02. International Academy for Quality Members *1	30	0.0000065
I03. Indexed Quality Papers Published *1	55	0.00945
I04. Universities in International Research Rankings *1	31	0.0000325
I05. Education Index *2	77	0.644
I06. Healthy Life Expectancy *3	32	68.7
I07. At Birth Mortality Rate *4	48	8.5
I08. Global Competitiveness Index *2	21	5.002

	Rank	Value
I09. Gross Domestic Product *5	49	8826.99
I10. Gini Index *4	84	42.2
I11. ISO 14001 Certified Organizations *1	33	0.09898
I12. Ecological Footprint *6	82	3.710
I13. Global Innovation Index *2	15	53.1
I14. Ease of Doing Business Results *7	65	65.29
I15. World Happiness Index *2	68	5.246
I16. Employment Engagement Index *4	115	6.1

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

## COLOMBIA



Population (2017): .....49 065 615

### OWSQ 2018

Rank ..... 44

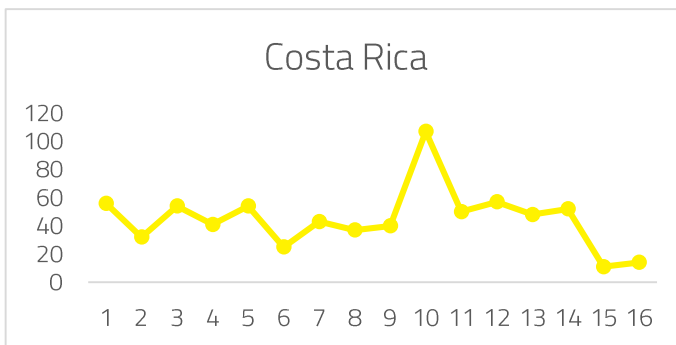
Score: ..... 48.777

Quality group: ..... **MODERATE**

Rank	Value	Rank	Value
I01. ISO 9001 Certified Organizations *1	39.....0.24320	I09. Gross Domestic Product *5	57 ..... 6301.59
I02. International Academy for Quality Members *1	32.0.0000000	I10. Gini Index *4	111.....50.8
I03. Indexed Quality Papers Published *1	56.....0.00931	I11. ISO 14001 Certified Organizations *1	40.....0.06100
I04. Universities in International Research Rankings *1	41.0.0000000	I12. Ecological Footprint *6	41 .....1.913
I05. Education Index *2	70.....0.676	I13. Global Innovation Index *2	55.....33.8
I06. Healthy Life Expectancy *3	46.....67.1	I14. Ease of Doing Business Results *7	50.....69.41
I07. At Birth Mortality Rate *4	63..... 13.1	I15. World Happiness Index *2	30.....6.260
I08. Global Competitiveness Index *2	54..... 4.288	I16. Employment Engagement Index *4	3.....36.5

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

## COSTA RICA



Population (2017): .....4 905 769

### OWSQ 2018

Rank ..... 41

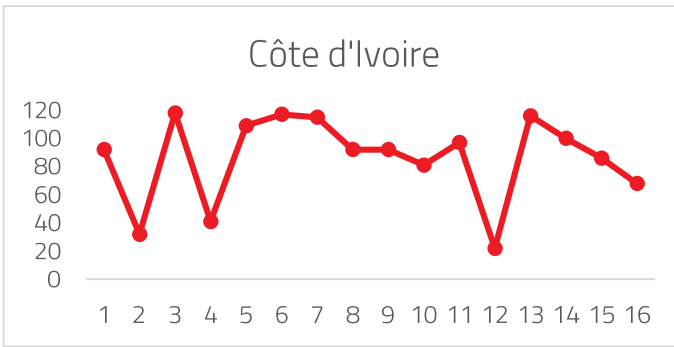
Score: ..... 44.216

Quality group: ..... **FOLLOWER**

Rank	Value	Rank	Value
I01. ISO 9001 Certified Organizations *1	56.....0.06136	I09. Gross Domestic Product *5	40....11630.67
I02. International Academy for Quality Members *1	32.0.0000000	I10. Gini Index *4	107.....48.7
I03. Indexed Quality Papers Published *1	54.....0.00999	I11. ISO 14001 Certified Organizations *1	50.....0.02303
I04. Universities in International Research Rankings *1	41.0.0000000	I12. Ecological Footprint *6	57 .....2.511
I05. Education Index *2	54.....0.719	I13. Global Innovation Index *2	48.....35.7
I06. Healthy Life Expectancy *3	25..... 70.9	I14. Ease of Doing Business Results *7	52.....69.13
I07. At Birth Mortality Rate *4	43.....7.7	I15. World Happiness Index *2	11.....7.072
I08. Global Competitiveness Index *2	37..... 4.497	I16. Employment Engagement Index *4	14.....32.4

\*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 (2017): .....24 294 750

### OWSQ 2018

Rank ..... 109

Score: .....87.179

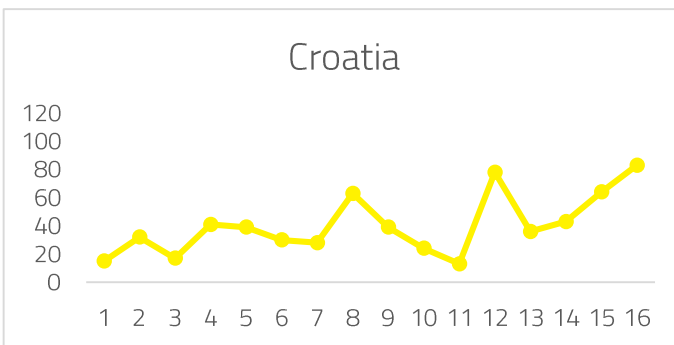
Quality group: ..... **BEGINNER**

	Rank	Value
I01. ISO 9001 Certified Organizations *1	92	0.00716
I02. International Academy for Quality Members *1	32	0.0000000
I03. Indexed Quality Papers Published *1	118	0.000000
I04. Universities in International Research Rankings *1	41	0.0000000
I05. Education Index *2	109	0.424
I06. Healthy Life Expectancy *3	117	48.3
I07. At Birth Mortality Rate *4	115	66.0
I08. Global Competitiveness Index *2	92	3.864

	Rank	Value
I09. Gross Domestic Product *5	92	1662.44
I10. Gini Index *4	81	41.5
I11. ISO 14001 Certified Organizations *1	97	0.00103
I12. Ecological Footprint *6	22	1.304
I13. Global Innovation Index *2	116	20.0
I14. Ease of Doing Business Results *7	100	53.71
I15. World Happiness Index *2	86	4.671
I16. Employment Engagement Index *4	68	15.4

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

## CROATIA



Population (2017): .....4 125 700

### OWSQ 2018

Rank ..... 35

Score: .....41.149

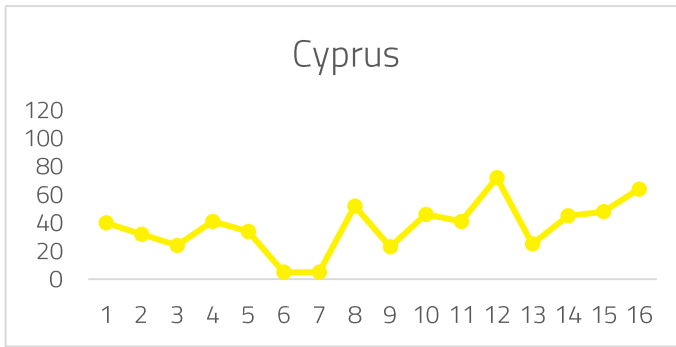
Quality group: ..... **FOLLOWER**

	Rank	Value
I01. ISO 9001 Certified Organizations *1	15	0.64450
I02. International Academy for Quality Members *1	32	0.0000000
I03. Indexed Quality Papers Published *1	17	0.11974
I04. Universities in International Research Rankings *1	41	0.0000000
I05. Education Index *2	39	0.791
I06. Healthy Life Expectancy *3	30	69.0
I07. At Birth Mortality Rate *4	28	4.0
I08. Global Competitiveness Index *2	63	4.191

	Rank	Value
I09. Gross Domestic Product *5	39	13294.5
I10. Gini Index *4	24	30.8
I11. ISO 14001 Certified Organizations *1	13	0.23850
I12. Ecological Footprint *6	78	3.632
I13. Global Innovation Index *2	36	40.7
I14. Ease of Doing Business Results *7	43	71.7
I15. World Happiness Index *2	64	5.321
I16. Employment Engagement Index *4	83	13.3

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

## CYPRUS



Population (2017): .....1 179 551

### OWSQ 2018

Rank ..... 29

Score: ..... 37.510

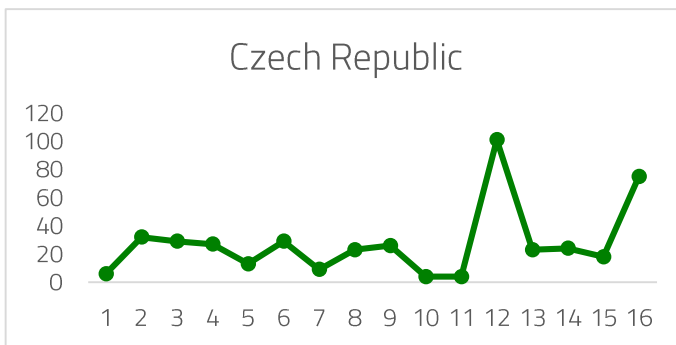
Quality group: ..... **FOLLOWER**

	Rank	Value
I01. ISO 9001 Certified Organizations *1	40	0.23314
I02. International Academy for Quality Members *1	32	0.0000000
I03. Indexed Quality Papers Published *1	24	0.08732
I04. Universities in International Research Rankings *1	41	0.0000000
I05. Education Index *2	34	0.808
I06. Healthy Life Expectancy *3	5	73.3
I07. At Birth Mortality Rate *4	5	2.1
I08. Global Competitiveness Index *2	52	4.299

	Rank	Value
I09. Gross Domestic Product *5	23	25233.57
I10. Gini Index *4	46	34.0
I11. ISO 14001 Certified Organizations *1	41	0.05765
I12. Ecological Footprint *6	72	3.322
I13. Global Innovation Index *2	25	47.8
I14. Ease of Doing Business Results *7	45	71.63
I15. World Happiness Index *2	48	5.762
I16. Employment Engagement Index *4	64	16.3

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

## CZECH REPUBLIC



Population (2017): ..... 10 591 323

### OWSQ 2018

Rank ..... 13

Score: ..... 27.821

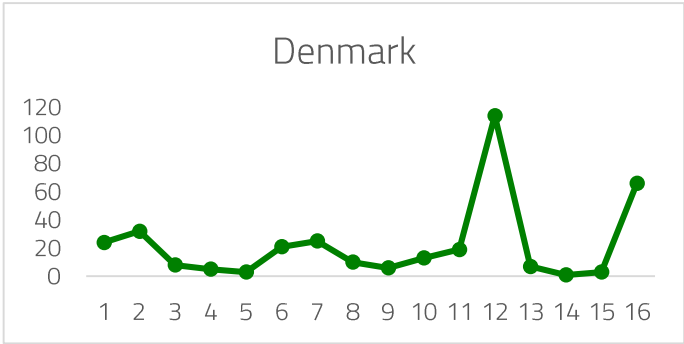
Quality group: ..... **LEADER**

	Rank	Value
I01. ISO 9001 Certified Organizations *1	6	0.99780
I02. International Academy for Quality Members *1	32	0.0000000
I03. Indexed Quality Papers Published *1	29	0.07232
I04. Universities in International Research Rankings *1	27	0.0000944
I05. Education Index *2	13	0.893
I06. Healthy Life Expectancy *3	29	69.3
I07. At Birth Mortality Rate *4	9	2.5
I08. Global Competitiveness Index *2	23	4.774

	Rank	Value
I09. Gross Domestic Product *5	26	20368.14
I10. Gini Index *4	4	25.9
I11. ISO 14001 Certified Organizations *1	4	0.39495
I12. Ecological Footprint *6	101	5.600
I13. Global Innovation Index *2	23	48.7
I14. Ease of Doing Business Results *7	24	76.27
I15. World Happiness Index *2	18	6.711
I16. Employment Engagement Index *4	75	14.3

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

## DENMARK



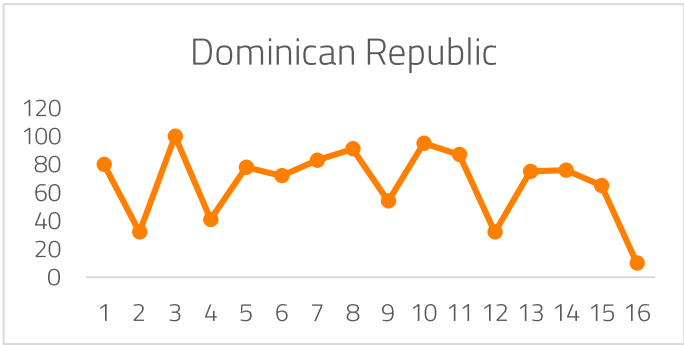
Population (2017): .....5 769 603

OWSQ 2018  
 Rank .....5  
 Score: .....21.948  
 Quality group: ..... **LEADER**

Rank	Value	Rank	Value
I01. ISO 9001 Certified Organizations *1	24.....0.43296	I09. Gross Domestic Product *5	6.....56307.51
I02. International Academy for Quality Members *1	75.0.0000000	I10. Gini Index *4	13.....28.2
I03. Indexed Quality Papers Published *1	8.....0.19637	I11. ISO 14001 Certified Organizations *1	19.....0.18632
I04. Universities in International Research Rankings *1	5.0.0008666	I12. Ecological Footprint *6	114.....7.127
I05. Education Index *2	3.....0.920	I13. Global Innovation Index *2	7.....58.4
I06. Healthy Life Expectancy *3	21.....71.8	I14. Ease of Doing Business Results *7	1.....84.06
I07. At Birth Mortality Rate *4	25.....3.7	I15. World Happiness Index *2	3.....7.555
I08. Global Competitiveness Index *2	10.....5.391	I16. Employment Engagement Index *4	66.....16.2

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

## DOMINICAN REPUBLIC



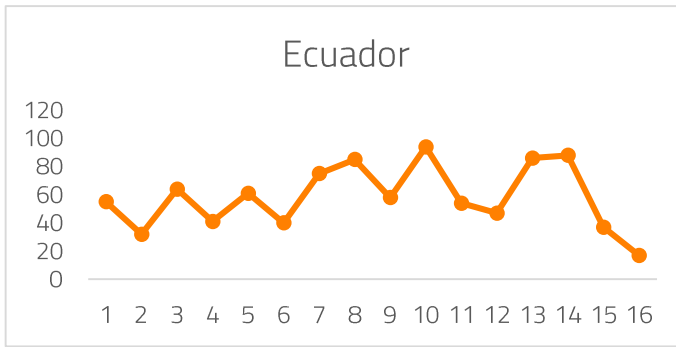
Population (2017): .....10 766 998

OWSQ 2018  
 Rank .....77  
 Score: .....67.217  
 Quality group: ..... **MODERATE**

Rank	Value	Rank	Value
I01. ISO 9001 Certified Organizations *1	80.....0.01978	I09. Gross Domestic Product *5	54.....7052.26
I02. International Academy for Quality Members *1	32.0.0000000	I10. Gini Index *4	95.....45.3
I03. Indexed Quality Papers Published *1	100.....0.00102	I11. ISO 14001 Certified Organizations *1	87.....0.00251
I04. Universities in International Research Rankings *1	41.0.0000000	I12. Ecological Footprint *6	32.....1.589
I05. Education Index *2	78.....0.643	I13. Global Innovation Index *2	75.....29.3
I06. Healthy Life Expectancy *3	72.....65.2	I14. Ease of Doing Business Results *7	76.....60.93
I07. At Birth Mortality Rate *4	83.....25.5	I15. World Happiness Index *2	65.....5.302
I08. Global Competitiveness Index *2	91.....3.865	I16. Employment Engagement Index *4	10.....33.5

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

## ECUADOR



Population (2017): ..... 16 624 858

### OWSQ 2018

Rank ..... 62

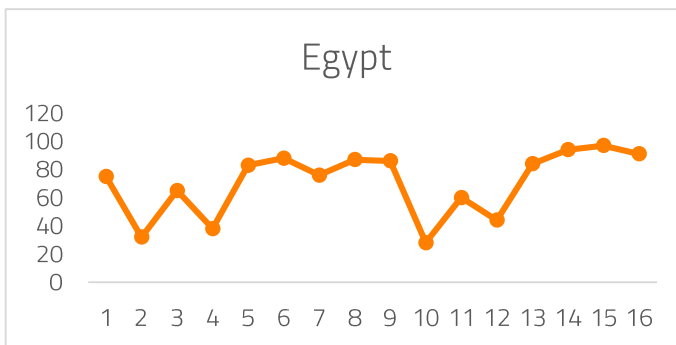
Score: ..... 58.456

Quality group: ..... **MODERATE**

	Rank	Value		Rank	Value
I01. ISO 9001 Certified Organizations *1	55	0.07417	I09. Gross Domestic Product *5	58	6198.95
I02. International Academy for Quality Members *1	32	0.0000000	I10. Gini Index *4	94	45.0
I03. Indexed Quality Papers Published *1	64	0.00614	I11. ISO 14001 Certified Organizations *1	54	0.01468
I04. Universities in International Research Rankings *1	41	0.0000000	I12. Ecological Footprint *6	47	2.043
I05. Education Index *2	61	0.697	I13. Global Innovation Index *2	86	26.8
I06. Healthy Life Expectancy *3	40	67.9	I14. Ease of Doing Business Results *7	88	57.83
I07. At Birth Mortality Rate *4	75	17.8	I15. World Happiness Index *2	37	5.973
I08. Global Competitiveness Index *2	85	3.914	I16. Employment Engagement Index *4	17	30.5

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

## EGYPT



Population (2017): ..... 97 553 151

### OWSQ 2018

Rank ..... 83

Score: ..... 72.131

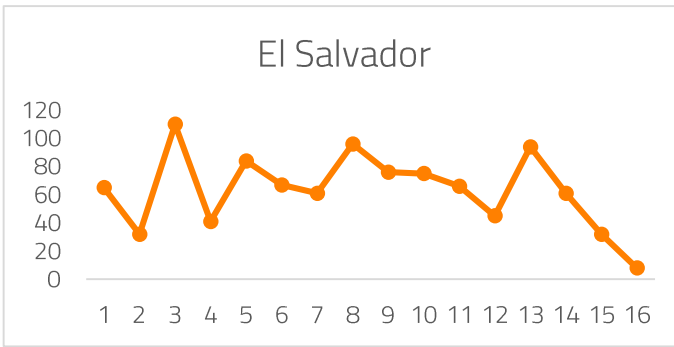
Quality group: ..... **MODERATE**

	Rank	Value		Rank	Value
I01. ISO 9001 Certified Organizations *1	75	0.02754	I09. Gross Domestic Product *5	86	2412.73
I02. International Academy for Quality Members *1	32	0.0000000	I10. Gini Index *4	28	31.8
I03. Indexed Quality Papers Published *1	65	0.00583	I11. ISO 14001 Certified Organizations *1	60	0.01007
I04. Universities in International Research Rankings *1	38	0.0000103	I12. Ecological Footprint *6	44	1.984
I05. Education Index *2	83	0.604	I13. Global Innovation Index *2	84	27.2
I06. Healthy Life Expectancy *3	88	61.1	I14. Ease of Doing Business Results *7	94	56.22
I07. At Birth Mortality Rate *4	76	19.4	I15. World Happiness Index *2	97	4.419
I08. Global Competitiveness Index *2	87	3.903	I16. Employment Engagement Index *4	91	12.3

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



## EL SALVADOR



Population (2017): .....6 377 853

### OWSQ 2018

Rank ..... 70

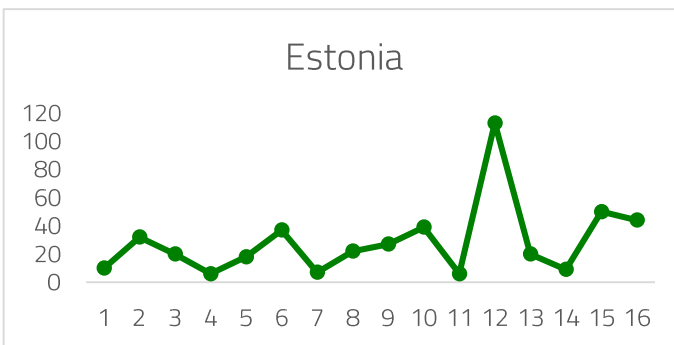
Score: ..... 63.336

Quality group: ..... **MODERATE**

Rank	Value	Rank	Value
I01. ISO 9001 Certified Organizations *1	65.....0.03622	I09. Gross Domestic Product *5	76..... 3889.31
I02. International Academy for Quality Members *1	32.0.0000000	I10. Gini Index *4	75.....40.0
I03. Indexed Quality Papers Published *1	110.....0.00078	I11. ISO 14001 Certified Organizations *1	66..... 0.00768
I04. Universities in International Research Rankings *1	41.0.0000000	I12. Ecological Footprint *6	45.....1.998
I05. Education Index *2	84..... 0.580	I13. Global Innovation Index *2	94.....25.1
I06. Healthy Life Expectancy *3	67.....65.5	I14. Ease of Doing Business Results *7	61.....66.42
I07. At Birth Mortality Rate *4	61..... 12.9	I15. World Happiness Index *2	32.....6.167
I08. Global Competitiveness Index *2	96..... 3.768	I16. Employment Engagement Index *4	8.....34.5

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

## ESTONIA



Population (2017): .....1 315 480

### OWSQ 2018

Rank ..... 16

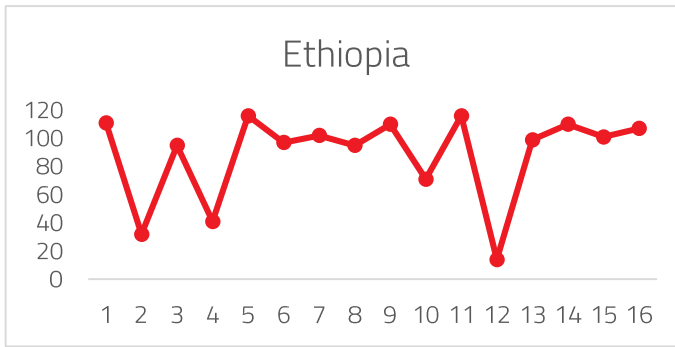
Score: ..... 29.030

Quality group: ..... **LEADER**

Rank	Value	Rank	Value
I01. ISO 9001 Certified Organizations *1	10.....0.73965	I09. Gross Domestic Product *5	27....19704.66
I02. International Academy for Quality Members *1	32.0.0000000	I10. Gini Index *4	39.....32.7
I03. Indexed Quality Papers Published *1	20.....0.09578	I11. ISO 14001 Certified Organizations *1	6..... 0.36185
I04. Universities in International Research Rankings *1	6.0.0007602	I12. Ecological Footprint *6	113.....6.965
I05. Education Index *2	18..... 0.869	I13. Global Innovation Index *2	20.....50.5
I06. Healthy Life Expectancy *3	37.....68.2	I14. Ease of Doing Business Results *7	9.....80.80
I07. At Birth Mortality Rate *4	7.....2.3	I15. World Happiness Index *2	50.....5.739
I08. Global Competitiveness Index *2	22..... 4.850	I16. Employment Engagement Index *4	44.....20.3

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

## ETHIOPIA



Population (2017): ..... 104 957 438

### OWSQ 2018

Rank ..... 115

Score: ..... 89.957

Quality group: ..... **BEGINNER**

	Rank	Value
I01. ISO 9001 Certified Organizations *1	111	0.00094
I02. International Academy for Quality Members *1	32	0.0000000
I03. Indexed Quality Papers Published *1	95	0.00146
I04. Universities in International Research Rankings *1	41	0.0000000
I05. Education Index *2	116	0.327
I06. Healthy Life Expectancy *3	97	57.5
I07. At Birth Mortality Rate *4	103	41.0
I08. Global Competitiveness Index *2	95	3.782

	Rank	Value
I09. Gross Domestic Product *5	110	767.56
I10. Gini Index *4	71	39.1
I11. ISO 14001 Certified Organizations *1	116	0.00007
I12. Ecological Footprint *6	14	1.089
I13. Global Innovation Index *2	99	24.2
I14. Ease of Doing Business Results *7	110	47.77
I15. World Happiness Index *2	101	4.350
I16. Employment Engagement Index *4	107	8.4

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

## FINLAND



Population (2017): ..... 5 511 303

### OWSQ 2018

Rank ..... 4

Score: ..... 20.828

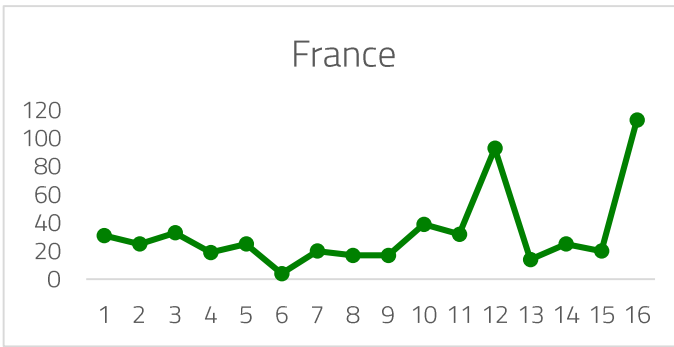
Quality group: ..... **LEADER**

	Rank	Value
I01. ISO 9001 Certified Organizations *1	21	0.47031
I02. International Academy for Quality Members *1	1	0.0009072
I03. Indexed Quality Papers Published *1	12	0.16439
I04. Universities in International Research Rankings *1	4	0.0009072
I05. Education Index *2	8	0.905
I06. Healthy Life Expectancy *3	22	71.7
I07. At Birth Mortality Rate *4	2	1.9
I08. Global Competitiveness Index *2	8	5.489

	Rank	Value
I09. Gross Domestic Product *5	11	45703.33
I10. Gini Index *4	9	27.1
I11. ISO 14001 Certified Organizations *1	11	0.25729
I12. Ecological Footprint *6	109	6.094
I13. Global Innovation Index *2	6	59.6
I14. Ease of Doing Business Results *7	10	80.37
I15. World Happiness Index *2	1	7.632
I16. Employment Engagement Index *4	95	12.2

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

## FRANCE



Population (2017): .....67 118 648

### OWSQ 2018

Rank ..... 22

Score: ..... 32.889

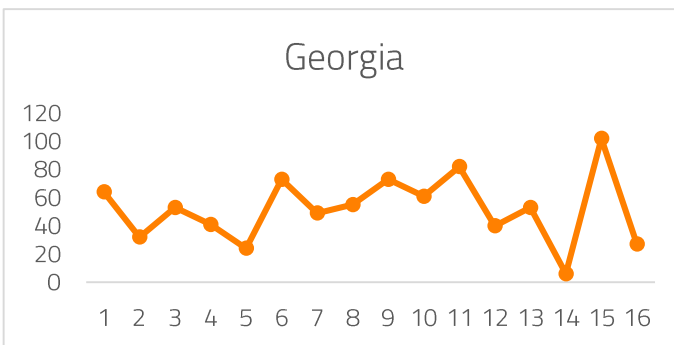
Quality group: ..... **LEADER**

	Rank	Value
I01. ISO 9001 Certified Organizations *1	31	0.34868
I02. International Academy for Quality Members *1	25	0.0000149
I03. Indexed Quality Papers Published *1	33	0.06001
I04. Universities in International Research Rankings *1	19	0.0002980
I05. Education Index *2	25	0.840
I06. Healthy Life Expectancy *3	4	73.4
I07. At Birth Mortality Rate *4	20	3.2
I08. Global Competitiveness Index *2	17	5.180

	Rank	Value
I09. Gross Domestic Product *5	17	38746.66
I10. Gini Index *4	39	32.7
I11. ISO 14001 Certified Organizations *1	32	0.09975
I12. Ecological Footprint *6	93	4.698
I13. Global Innovation Index *2	14	54.4
I14. Ease of Doing Business Results *7	25	76.13
I15. World Happiness Index *2	20	6.489
I16. Employment Engagement Index *4	113	6.2

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

## GEORGIA



Population (2017): .....3 717 100

### OWSQ 2018

Rank ..... 55

Score: ..... 53.048

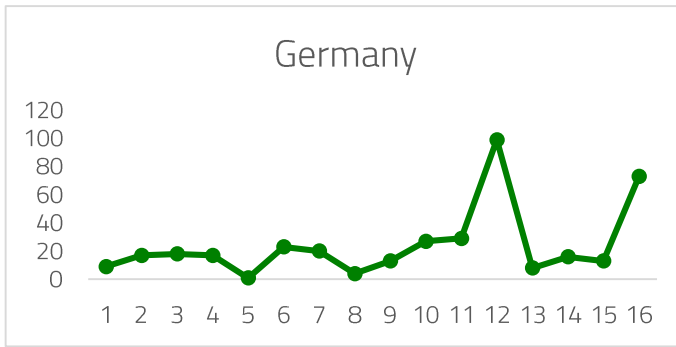
Quality group: ..... **MODERATE**

	Rank	Value
I01. ISO 9001 Certified Organizations *1	64	0.04035
I02. International Academy for Quality Members *1	32	0.0000000
I03. Indexed Quality Papers Published *1	53	0.01022
I04. Universities in International Research Rankings *1	41	0.0000000
I05. Education Index *2	24	0.845
I06. Healthy Life Expectancy *3	73	64.9
I07. At Birth Mortality Rate *4	49	9.5
I08. Global Competitiveness Index *2	55	4.279

	Rank	Value
I09. Gross Domestic Product *5	73	4078.25
I10. Gini Index *4	61	36.5
I11. ISO 14001 Certified Organizations *1	82	0.00350
I12. Ecological Footprint *6	40	1.897
I13. Global Innovation Index *2	53	35.0
I14. Ease of Doing Business Results *7	6	82.04
I15. World Happiness Index *2	102	4.340
I16. Employment Engagement Index *4	27	26.5

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

## GERMANY



Population (2017): .....82 695 000

### OWSQ 2018

Rank .....9

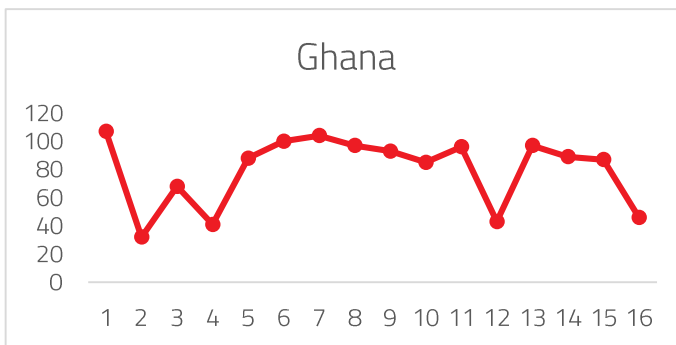
Score: .....24.167

Quality group: ..... **LEADER**

Rank	Value	Rank	Value
I01. ISO 9001 Certified Organizations *1	9.....0.80093	I09. Gross Domestic Product *5	13....44469.91
I02. International Academy for Quality Members *1	17.0.0000726	I10. Gini Index *4	27.....31.7
I03. Indexed Quality Papers Published *1	18.....0.10363	I11. ISO 14001 Certified Organizations *1	29.....0.11420
I04. Universities in International Research Rankings *1	17.0.0004474	I12. Ecological Footprint *6	99.....5.047
I05. Education Index *2	1.....0.940	I13. Global Innovation Index *2	8.....58.0
I06. Healthy Life Expectancy *3	23.....71.6	I14. Ease of Doing Business Results *7	16.....79.00
I07. At Birth Mortality Rate *4	20.....3.2	I15. World Happiness Index *2	13.....6.965
I08. Global Competitiveness Index *2	4.....5.655	I16. Employment Engagement Index *4	73.....15.2

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

## GHANA



Population (2017): .....28 833 629

### OWSQ 2018

Rank .....99

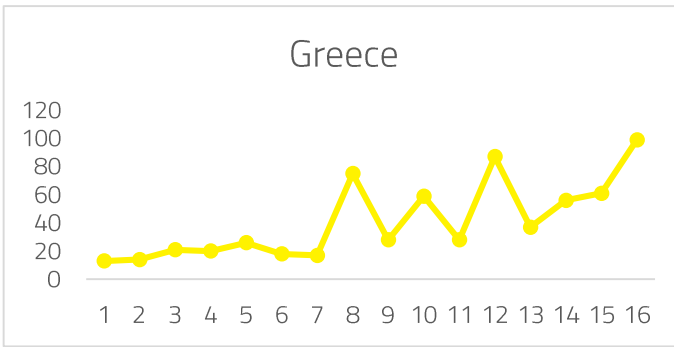
Score: .....80.455

Quality group: ..... **BEGINNER**

Rank	Value	Rank	Value
I01. ISO 9001 Certified Organizations *1	107.....0.00215	I09. Gross Domestic Product *5	93..... 1641.49
I02. International Academy for Quality Members *1	32.0.0000000	I10. Gini Index *4	85.....42.4
I03. Indexed Quality Papers Published *1	68.....0.00524	I11. ISO 14001 Certified Organizations *1	96.....0.00108
I04. Universities in International Research Rankings *1	41.0.0000000	I12. Ecological Footprint *6	43.....1.955
I05. Education Index *2	88.....0.558	I13. Global Innovation Index *2	97.....24.5
I06. Healthy Life Expectancy *3	100.....56.4	I14. Ease of Doing Business Results *7	89.....57.24
I07. At Birth Mortality Rate *4	104.....41.2	I15. World Happiness Index *2	87.....4.657
I08. Global Competitiveness Index *2	97..... 3.723	I16. Employment Engagement Index *4	46.....19.5

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

## GREECE



Population (2017): ..... 10760 421

### OWSQ 2018

Rank ..... 37

Score: ..... 42.227

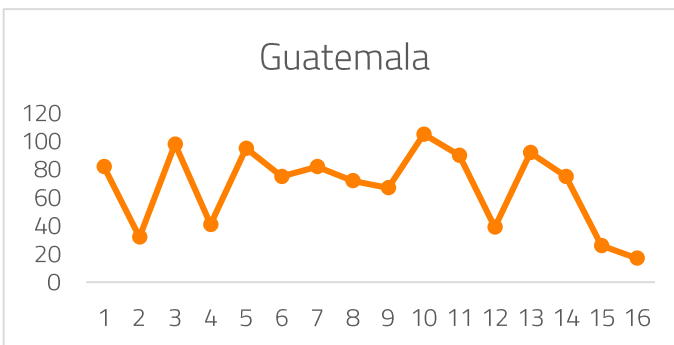
Quality group: ..... **FOLLOWER**

	Rank	Value
I01. ISO 9001 Certified Organizations *1	13	0.67869
I02. International Academy for Quality Members *1	14	0.000929
I03. Indexed Quality Papers Published *1	21	0.09386
I04. Universities in International Research Rankings *1	20	0.0002788
I05. Education Index *2	26	0.838
I06. Healthy Life Expectancy *3	18	72.0
I07. At Birth Mortality Rate *4	17	3.1
I08. Global Competitiveness Index *2	75	4.022

	Rank	Value
I09. Gross Domestic Product *5	28	18613.42
I10. Gini Index *4	59	36.0
I11. ISO 14001 Certified Organizations *1	28	0.12304
I12. Ecological Footprint *6	87	4.294
I13. Global Innovation Index *2	37	38.9
I14. Ease of Doing Business Results *7	56	68.02
I15. World Happiness Index *2	61	5.358
I16. Employment Engagement Index *4	99	11.3

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

## GUATEMALA



Population (2017): ..... 16 913 503

### OWSQ 2018

Rank ..... 78

Score: ..... 67.623

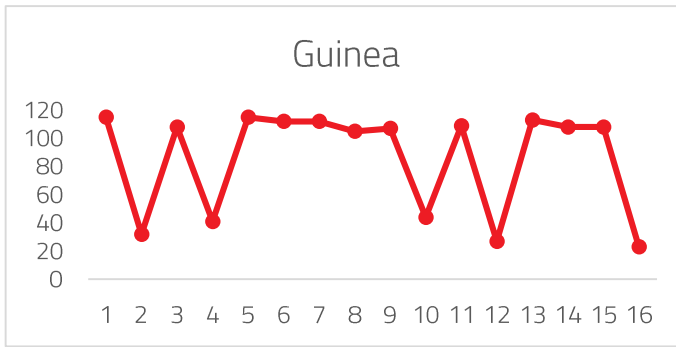
Quality group: ..... **MODERATE**

	Rank	Value
I01. ISO 9001 Certified Organizations *1	82	0.01431
I02. International Academy for Quality Members *1	32	0.000000
I03. Indexed Quality Papers Published *1	98	0.00118
I04. Universities in International Research Rankings *1	41	0.000000
I05. Education Index *2	95	0.514
I06. Healthy Life Expectancy *3	75	64.2
I07. At Birth Mortality Rate *4	82	23.9
I08. Global Competitiveness Index *2	72	4.085

	Rank	Value
I09. Gross Domestic Product *5	67	4470.99
I10. Gini Index *4	105	48.3
I11. ISO 14001 Certified Organizations *1	90	0.00219
I12. Ecological Footprint *6	39	1.840
I13. Global Innovation Index *2	92	25.5
I14. Ease of Doing Business Results *7	75	61.18
I15. World Happiness Index *2	26	6.382
I16. Employment Engagement Index *4	17	30.5

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

## GUINEA



Population (2017): .....12 717 176

### OWSQ 2018

Rank ..... 112

Score: .....87.627

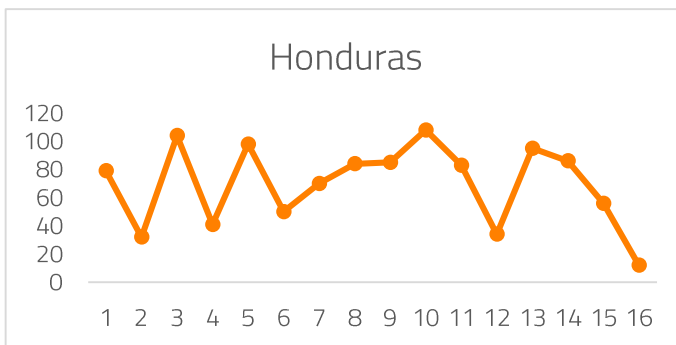
Quality group: ..... **BEGINNER**

	Rank	Value
I01. ISO 9001 Certified Organizations *1	115	0.00047
I02. International Academy for Quality Members *1	32	0.0000000
I03. Indexed Quality Papers Published *1	108	0.00086
I04. Universities in International Research Rankings *1	41	0.0000000
I05. Education Index *2	115	0.339
I06. Healthy Life Expectancy *3	112	52.2
I07. At Birth Mortality Rate *4	112	58.3
I08. Global Competitiveness Index *2	105	3.475

	Rank	Value
I09. Gross Domestic Product *5	107	824.98
I10. Gini Index *4	44	33.7
I11. ISO 14001 Certified Organizations *1	109	0.00024
I12. Ecological Footprint *6	27	1.462
I13. Global Innovation Index *2	113	20.7
I14. Ease of Doing Business Results *7	108	49.80
I15. World Happiness Index *2	108	3.964
I16. Employment Engagement Index *4	23	28.6

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

## HONDURAS



Population (2017): .....9 265 067

### OWSQ 2018

Rank ..... 81

Score: .....69.995

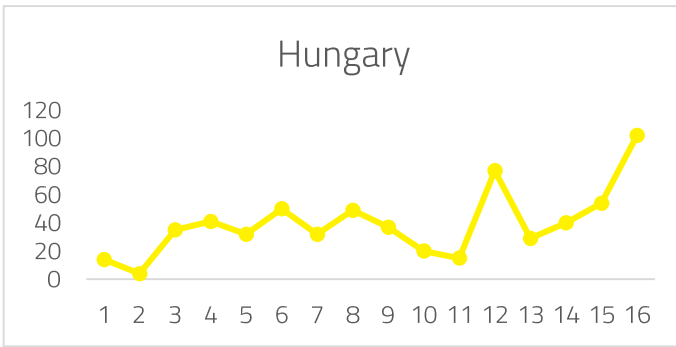
Quality group: ..... **MODERATE**

	Rank	Value
I01. ISO 9001 Certified Organizations *1	79	0.01986
I02. International Academy for Quality Members *1	32	0.0000000
I03. Indexed Quality Papers Published *1	104	0.00097
I04. Universities in International Research Rankings *1	41	0.0000000
I05. Education Index *2	98	0.502
I06. Healthy Life Expectancy *3	50	66.8
I07. At Birth Mortality Rate *4	71	16.0
I08. Global Competitiveness Index *2	84	3.917

	Rank	Value
I09. Gross Domestic Product *5	85	2480.13
I10. Gini Index *4	108	50.0
I11. ISO 14001 Certified Organizations *1	83	0.00324
I12. Ecological Footprint *6	34	1.661
I13. Global Innovation Index *2	95	24.9
I14. Ease of Doing Business Results *7	86	58.46
I15. World Happiness Index *2	56	5.504
I16. Employment Engagement Index *4	12	32.6

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

## HUNGARY



Population (2017): .....9 781127

### OWSQ 2018

Rank ..... 34

Score: ..... 40.574

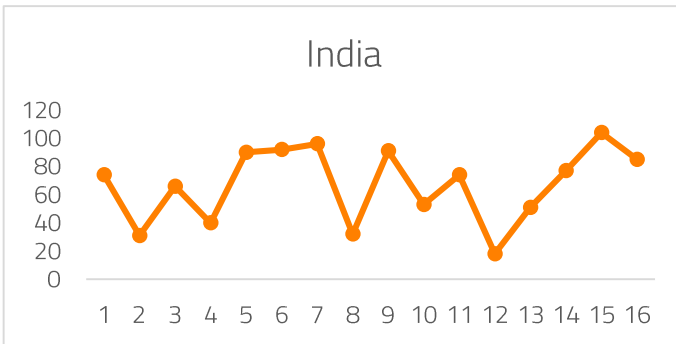
Quality group: ..... **FOLLOWER**

	Rank	Value
I01. ISO 9001 Certified Organizations *1	14	0.67058
I02. International Academy for Quality Members *1	4	0.0003067
I03. Indexed Quality Papers Published *1	35	0.04345
I04. Universities in International Research Rankings *1	41	0.0000000
I05. Education Index *2	32	0.815
I06. Healthy Life Expectancy *3	50	66.8
I07. At Birth Mortality Rate *4	32	4.4
I08. Global Competitiveness Index *2	49	4.327

	Rank	Value
I09. Gross Domestic Product *5	37	14224.85
I10. Gini Index *4	20	30.4
I11. ISO 14001 Certified Organizations *1	15	0.22830
I12. Ecological Footprint *6	77	3.604
I13. Global Innovation Index *2	29	44.9
I14. Ease of Doing Business Results *7	40	72.39
I15. World Happiness Index *2	54	5.620
I16. Employment Engagement Index *4	102	10.3

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

## INDIA



Population (2017): ..... 1 339 180 127

### OWSQ 2018

Rank ..... 79

Score: ..... 68.238

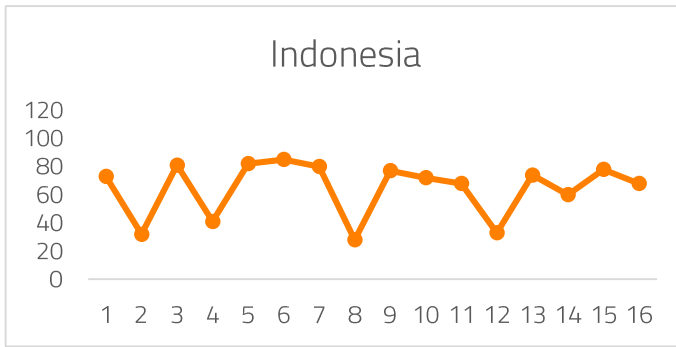
Quality group: ..... **MODERATE**

	Rank	Value
I01. ISO 9001 Certified Organizations *1	74	0.02767
I02. International Academy for Quality Members *1	31	0.0000045
I03. Indexed Quality Papers Published *1	66	0.00577
I04. Universities in International Research Rankings *1	40	0.0000007
I05. Education Index *2	90	0.556
I06. Healthy Life Expectancy *3	92	59.3
I07. At Birth Mortality Rate *4	96	34.6
I08. Global Competitiveness Index *2	32	4.587

	Rank	Value
I09. Gross Domestic Product *5	91	1939.61
I10. Gini Index *4	53	35.1
I11. ISO 14001 Certified Organizations *1	74	0.00577
I12. Ecological Footprint *6	18	1.120
I13. Global Innovation Index *2	51	35.2
I14. Ease of Doing Business Results *7	77	60.76
I15. World Happiness Index *2	104	4.190
I16. Employment Engagement Index *4	85	13.2

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

## INDONESIA



Population (2017): ..... 263 991 379

### OWSQ 2018

Rank ..... 74

Score: ..... 65.067

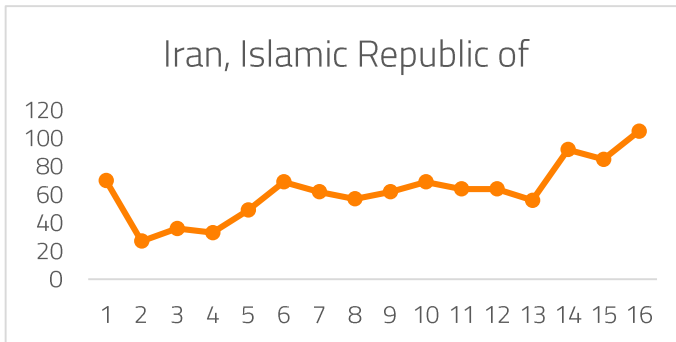
Quality group: ..... **MODERATE**

	Rank	Value
I01. ISO 9001 Certified Organizations *1	73	0.02846
I02. International Academy for Quality Members *1	32	0.0000000
I03. Indexed Quality Papers Published *1	81	0.00266
I04. Universities in International Research Rankings *1	41	0.0000000
I05. Education Index *2	82	0.622
I06. Healthy Life Expectancy *3	85	61.7
I07. At Birth Mortality Rate *4	80	22.2
I08. Global Competitiveness Index *2	28	4.682

	Rank	Value
I09. Gross Domestic Product *5	77	3846.86
I10. Gini Index *4	72	39.5
I11. ISO 14001 Certified Organizations *1	68	0.00758
I12. Ecological Footprint *6	33	1.608
I13. Global Innovation Index *2	74	29.8
I14. Ease of Doing Business Results *7	60	66.47
I15. World Happiness Index *2	78	5.093
I16. Employment Engagement Index *4	68	15.4

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

## IRAN, ISLAMIC REPUBLIC OF



Population (2017): ..... 81 162 788

### OWSQ 2018

Rank ..... 73

Score: ..... 63.605

Quality group: ..... **MODERATE**

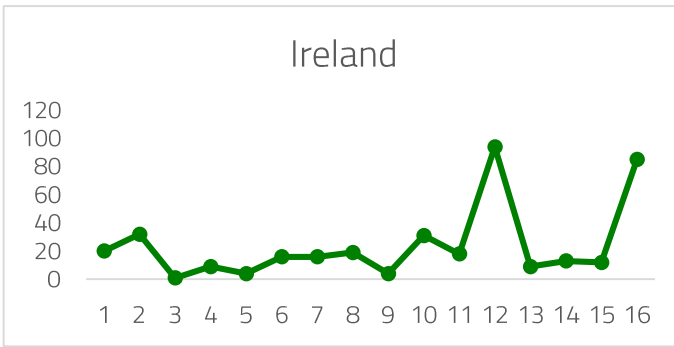
	Rank	Value
I01. ISO 9001 Certified Organizations *1	70	0.03195
I02. International Academy for Quality Members *1	27	0.0000123
I03. Indexed Quality Papers Published *1	36	0.03950
I04. Universities in International Research Rankings *1	33	0.0000246
I05. Education Index *2	49	0.741
I06. Healthy Life Expectancy *3	69	65.4
I07. At Birth Mortality Rate *4	62	13.0
I08. Global Competitiveness Index *2	57	4.270

	Rank	Value
I09. Gross Domestic Product *5	62	5415.21
I10. Gini Index *4	69	38.8
I11. ISO 14001 Certified Organizations *1	64	0.00946
I12. Ecological Footprint *5	64	3.004
I13. Global Innovation Index *2	56	33.4
I14. Ease of Doing Business Results *7	92	56.48
I15. World Happiness Index *2	85	4.707
I16. Employment Engagement Index *4	105	9.3

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



## IRELAND



Population (2017): .....4 813 608

### OWSQ 2018

Rank .....8

Score: .....23.732

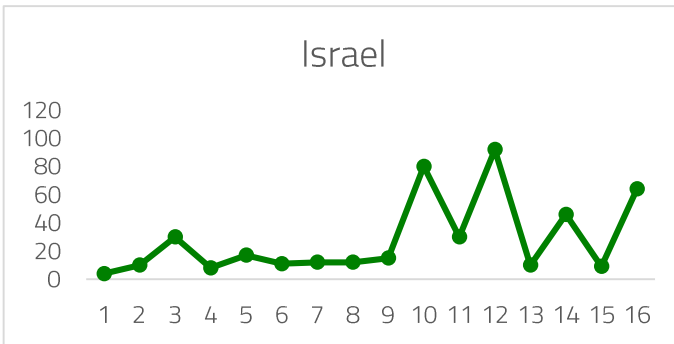
Quality group: .....**LEADER**

	Rank	Value
I01. ISO 9001 Certified Organizations *1	20	0.49713
I02. International Academy for Quality Members *1	32	0.0000000
I03. Indexed Quality Papers Published *1	1	0.22395
I04. Universities in International Research Rankings *1	9	0.0006232
I05. Education Index *2	4	0.918
I06. Healthy Life Expectancy *3	16	72.1
I07. At Birth Mortality Rate *4	16	3.0
I08. Global Competitiveness Index *2	19	5.158

	Rank	Value
I09. Gross Domestic Product *5	4	69330.69
I10. Gini Index *4	31	31.9
I11. ISO 14001 Certified Organizations *1	18	0.19320
I12. Ecological Footprint *6	94	4.707
I13. Global Innovation Index *2	9	57.2
I14. Ease of Doing Business Results *7	13	79.51
I15. World Happiness Index *2	12	6.977
I16. Employment Engagement Index *4	85	13.2

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

## ISRAEL



Population (2017): .....8 712400

### OWSQ 2018

Rank .....14

Score: .....27.928

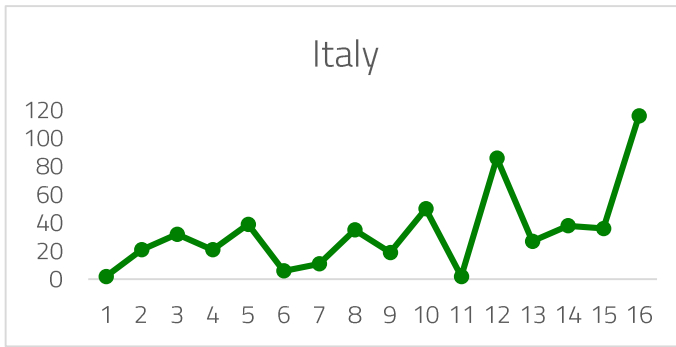
Quality group: .....**LEADER**

	Rank	Value
I01. ISO 9001 Certified Organizations *1	4	1.16168
I02. International Academy for Quality Members *1	10	0.0001148
I03. Indexed Quality Papers Published *1	30	0.06829
I04. Universities in International Research Rankings *1	8	0.0006887
I05. Education Index *2	17	0.874
I06. Healthy Life Expectancy *3	11	72.9
I07. At Birth Mortality Rate *4	12	2.9
I08. Global Competitiveness Index *2	12	5.312

	Rank	Value
I09. Gross Domestic Product *5	15	40270.25
I10. Gini Index *4	80	41.4
I11. ISO 14001 Certified Organizations *1	30	0.10663
I12. Ecological Footprint *6	92	4.680
I13. Global Innovation Index *2	10	56.8
I14. Ease of Doing Business Results *7	46	71.42
I15. World Happiness Index *2	9	7.190
I16. Employment Engagement Index *4	64	16.3

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

## ITALY



Population (2017): .....60 551 416

### OWSQ 2018

Rank ..... 27

Score: ..... 34.236

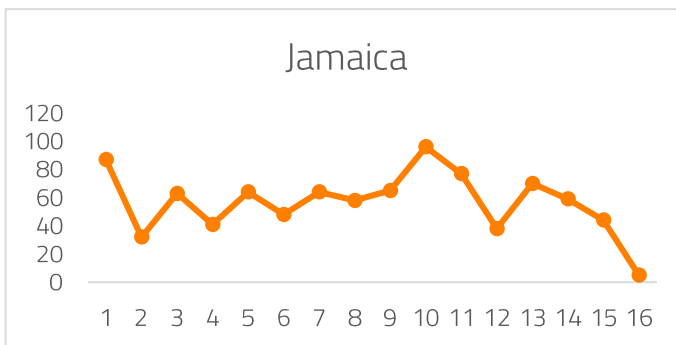
Quality group: ..... **LEADER**

	Rank	Value
I01. ISO 9001 Certified Organizations *1	2	2.47960
I02. International Academy for Quality Members *1	21	0.0000330
I03. Indexed Quality Papers Published *1	32	0.06489
I04. Universities in International Research Rankings *1	21	0.0002642
I05. Education Index *2	39	0.791
I06. Healthy Life Expectancy *3	6	73.2
I07. At Birth Mortality Rate *4	11	2.8
I08. Global Competitiveness Index *2	35	4.542

	Rank	Value
I09. Gross Domestic Product *5	19	31952.98
I10. Gini Index *4	50	34.7
I11. ISO 14001 Certified Organizations *1	2	0.44020
I12. Ecological Footprint *6	86	4.292
I13. Global Innovation Index *2	27	46.3
I14. Ease of Doing Business Results *7	38	72.70
I15. World Happiness Index *2	36	6.000
I16. Employment Engagement Index *4	116	5.2

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

## JAMAICA



Population (2017): .....2 890 299

### OWSQ 2018

Rank ..... 59

Score: ..... 56.717

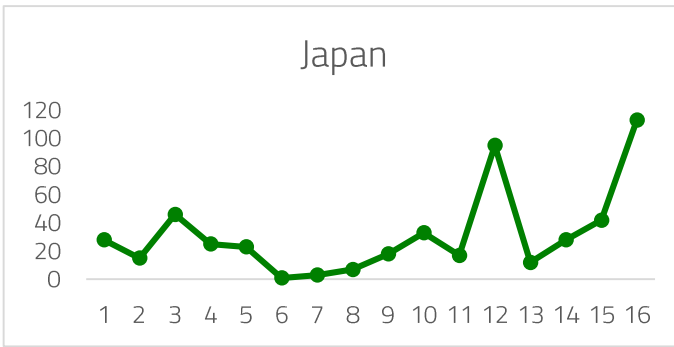
Quality group: ..... **MODERATE**

	Rank	Value
I01. ISO 9001 Certified Organizations *1	87	0.00969
I02. International Academy for Quality Members *1	32	0.0000000
I03. Indexed Quality Papers Published *1	63	0.00623
I04. Universities in International Research Rankings *1	41	0.0000000
I05. Education Index *2	64	0.690
I06. Healthy Life Expectancy *3	48	66.9
I07. At Birth Mortality Rate *4	64	13.2
I08. Global Competitiveness Index *2	58	4.247

	Rank	Value
I09. Gross Domestic Product *5	65	5109.55
I10. Gini Index *4	96	45.5
I11. ISO 14001 Certified Organizations *1	77	0.00484
I12. Ecological Footprint *6	38	1.773
I13. Global Innovation Index *2	70	30.4
I14. Ease of Doing Business Results *7	59	67.27
I15. World Happiness Index *2	44	5.890
I16. Employment Engagement Index *4	5	36.0

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

## JAPAN



Population (2017): ..... 126 785 797

### OWSQ 2018

Rank ..... 20

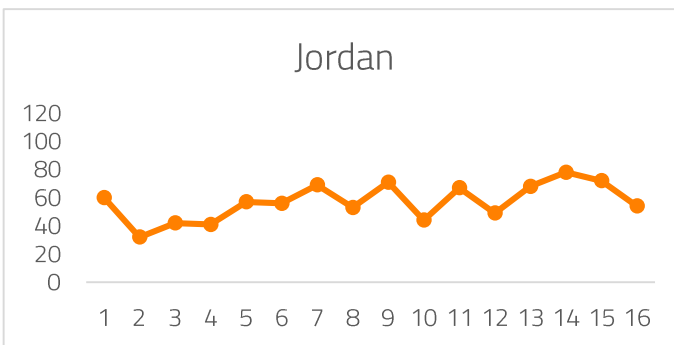
Score: ..... 32.054

Quality group: ..... **LEADER**

	Rank	Value		Rank	Value
I01. ISO 9001 Certified Organizations *1	28	0.38986	I09. Gross Domestic Product *5	18	38428.10
I02. International Academy for Quality Members *1	15	0.0000868	I10. Gini Index *4	33	32.1
I03. Indexed Quality Papers Published *1	46	0.01996	I11. ISO 14001 Certified Organizations *1	17	0.21589
I04. Universities in International Research Rankings *1	25	0.0001341	I12. Ecological Footprint *6	95	4.744
I05. Education Index *2	23	0.848	I13. Global Innovation Index *2	12	55.0
I06. Healthy Life Expectancy *3	1	74.8	I14. Ease of Doing Business Results *7	28	75.68
I07. At Birth Mortality Rate *4	3	2.0	I15. World Happiness Index *2	42	5.915
I08. Global Competitiveness Index *2	7	5.495	I16. Employment Engagement Index *4	113	6.2

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

## JORDAN



Population (2017): ..... 9 702 353

### OWSQ 2018

Rank ..... 60

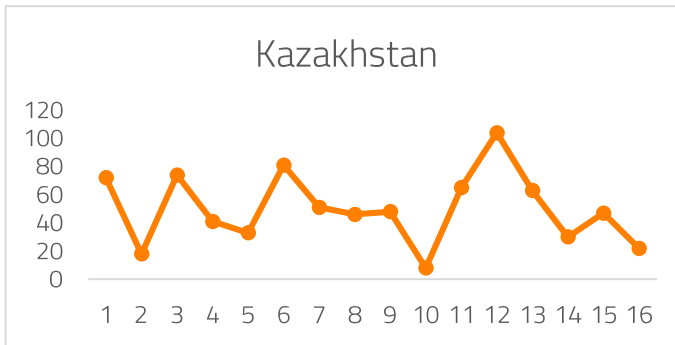
Score: ..... 57.855

Quality group: ..... **MODERATE**

	Rank	Value		Rank	Value
I01. ISO 9001 Certified Organizations *1	60	0.04422	I09. Gross Domestic Product *5	71	4129.75
I02. International Academy for Quality Members *1	32	0.0000000	I10. Gini Index *4	44	33.7
I03. Indexed Quality Papers Published *1	42	0.02546	I11. ISO 14001 Certified Organizations *1	67	0.00763
I04. Universities in International Research Rankings *1	41	0.0000000	I12. Ecological Footprint *6	49	2.136
I05. Education Index *2	57	0.711	I13. Global Innovation Index *2	68	30.8
I06. Healthy Life Expectancy *3	56	66.4	I14. Ease of Doing Business Results *7	78	60.58
I07. At Birth Mortality Rate *4	69	15.1	I15. World Happiness Index *2	72	5.161
I08. Global Competitiveness Index *2	53	4.297	I16. Employment Engagement Index *4	54	17.4

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

## KAZAKHSTAN



Population (2017): ..... 18 037 646

## OWSQ 2018

Rank ..... 50

Score: ..... 50.753

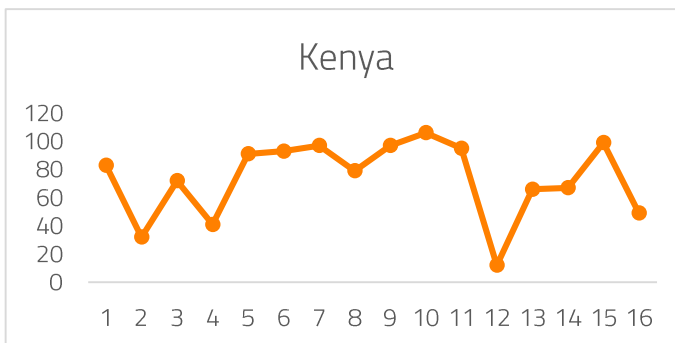
Quality group: ..... **MODERATE**

	Rank	Value
I01. ISO 9001 Certified Organizations *1	72	0.02955
I02. International Academy for Quality Members *1	18	0.0000554
I03. Indexed Quality Papers Published *1	74	0.00432
I04. Universities in International Research Rankings *1	41	0.0000000
I05. Education Index *2	33	0.814
I06. Healthy Life Expectancy *3	81	63.4
I07. At Birth Mortality Rate *4	51	10.1
I08. Global Competitiveness Index *2	46	4.350

	Rank	Value
I09. Gross Domestic Product *5	48	8837.46
I10. Gini Index *4	8	26.9
I11. ISO 14001 Certified Organizations *1	65	0.00821
I12. Ecological Footprint *6	104	5.813
I13. Global Innovation Index *2	63	31.4
I14. Ease of Doing Business Results *7	30	75.44
I15. World Happiness Index *2	47	5.790
I16. Employment Engagement Index *4	22	29.4

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

## KENYA



Population (2017): ..... 49 699 862

## OWSQ 2018

Rank ..... 89

Score: ..... 74.448

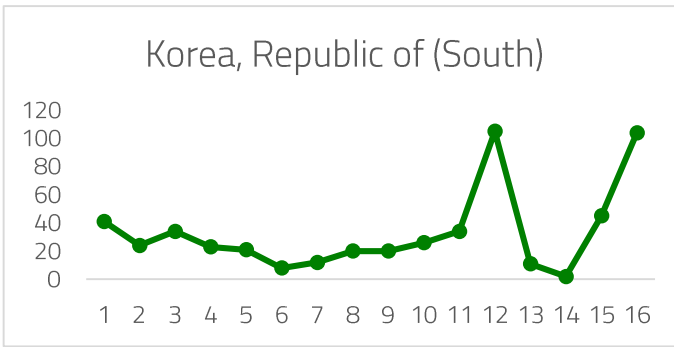
Quality group: ..... **MODERATE**

	Rank	Value
I01. ISO 9001 Certified Organizations *1	83	0.01358
I02. International Academy for Quality Members *1	32	0.0000000
I03. Indexed Quality Papers Published *1	72	0.00437
I04. Universities in International Research Rankings *1	41	0.0000000
I05. Education Index *2	91	0.551
I06. Healthy Life Expectancy *3	93	58.9
I07. At Birth Mortality Rate *4	97	35.6
I08. Global Competitiveness Index *2	79	3.977

	Rank	Value
I09. Gross Domestic Product *5	97	1507.81
I10. Gini Index *4	106	48.5
I11. ISO 14001 Certified Organizations *1	95	0.00115
I12. Ecological Footprint *6	12	1.039
I13. Global Innovation Index *2	66	31.1
I14. Ease of Doing Business Results *7	67	65.15
I15. World Happiness Index *2	99	4.410
I16. Employment Engagement Index *4	49	18.4

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

## KOREA, REPUBLIC OF (SOUTH)



Population (2017): .....51 466 201

### OWSQ 2018

Rank ..... 25

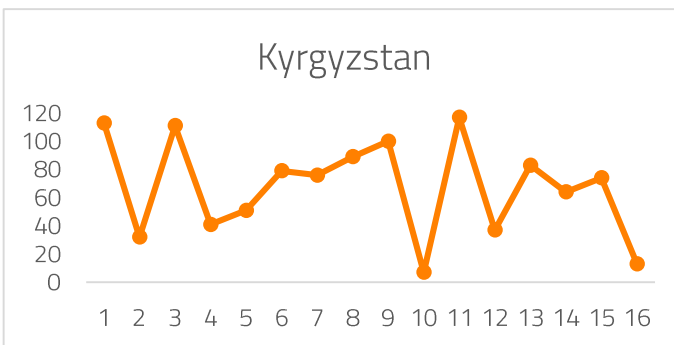
Score: ..... 33.401

Quality group: ..... **LEADER**

	Rank	Value		Rank	Value
I01. ISO 9001 Certified Organizations *1	41	0.22108	I09. Gross Domestic Product *5	20	29742.84
I02. International Academy for Quality Members *1	24	0.0000194	I10. Gini Index *4	26	31.6
I03. Indexed Quality Papers Published *1	34	0.05814	I11. ISO 14001 Certified Organizations *1	34	0.09733
I04. Universities in International Research Rankings *1	23	0.0002332	I12. Ecological Footprint *6	105	5.853
I05. Education Index *2	21	0.862	I13. Global Innovation Index *2	11	56.6
I06. Healthy Life Expectancy *3	8	73.0	I14. Ease of Doing Business Results *7	2	83.92
I07. At Birth Mortality Rate *4	12	2.9	I15. World Happiness Index *2	45	5.875
I08. Global Competitiveness Index *2	20	5.072	I16. Employment Engagement Index *4	104	10.0

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

## KYRGYZSTAN



Population (2017): .....6 201 500

### OWSQ 2018

Rank ..... 80

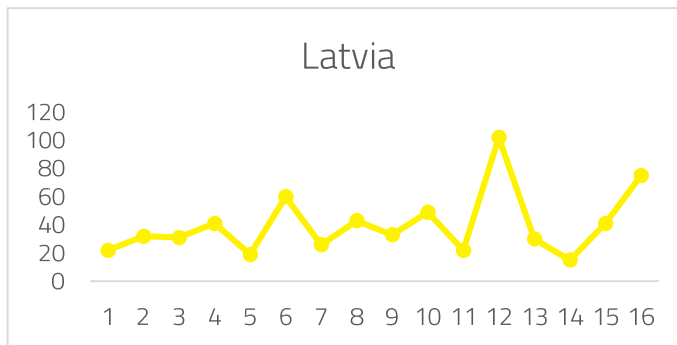
Score: ..... 68.886

Quality group: ..... **MODERATE**

	Rank	Value		Rank	Value
I01. ISO 9001 Certified Organizations *1	113	0.00065	I09. Gross Domestic Product *5	100	1219.82
I02. International Academy for Quality Members *1	32	0.0000000	I10. Gini Index *4	7	26.8
I03. Indexed Quality Papers Published *1	111	0.00048	I11. ISO 14001 Certified Organizations *1	117	0.00000
I04. Universities in International Research Rankings *1	41	0.0000000	I12. Ecological Footprint *6	37	1.753
I05. Education Index *2	51	0.735	I13. Global Innovation Index *2	83	27.6
I06. Healthy Life Expectancy *3	79	63.5	I14. Ease of Doing Business Results *7	64	65.70
I07. At Birth Mortality Rate *4	76	18.8	I15. World Happiness Index *2	74	5.131
I08. Global Competitiveness Index *2	89	3.896	I16. Employment Engagement Index *4	13	32.5

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

## LATVIA



Population (2017): .....1 940 740

## OWSQ 2018

Rank ..... 32

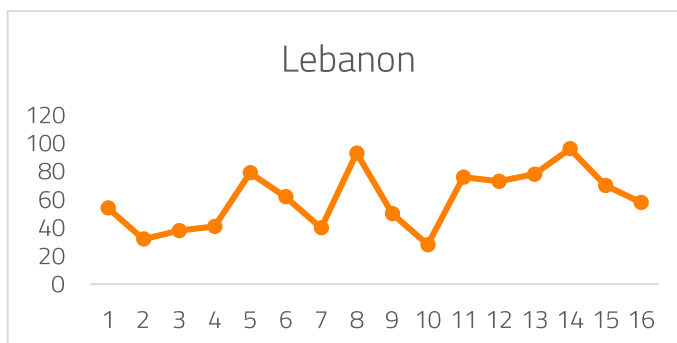
Score: ..... 40.324

Quality group: ..... **FOLLOWER**

Rank	Value	Rank	Value
I01. ISO 9001 Certified Organizations *1	22.....0.44622	I09. Gross Domestic Product *5	33....15594.29
I02. International Academy for Quality Members *1	32.0.0000000	I10. Gini Index *4	49.....34.2
I03. Indexed Quality Papers Published *1	31.....0.06492	I11. ISO 14001 Certified Organizations *1	22..... 0.15922
I04. Universities in International Research Rankings *1	41.0.0000000	I12. Ecological Footprint *6	102.....5.626
I05. Education Index *2	19..... 0.866	I13. Global Innovation Index *2	30.....43.2
I06. Healthy Life Expectancy *3	60.....66.2	I14. Ease of Doing Business Results *7	15.....79.26
I07. At Birth Mortality Rate *4	27.....3.9	I15. World Happiness Index *2	41.....5.933
I08. Global Competitiveness Index *2	43..... 4.398	I16. Employment Engagement Index *4	75.....14.3

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

## LEBANON



Population (2017): .....6 082 357

## OWSQ 2018

Rank ..... 68

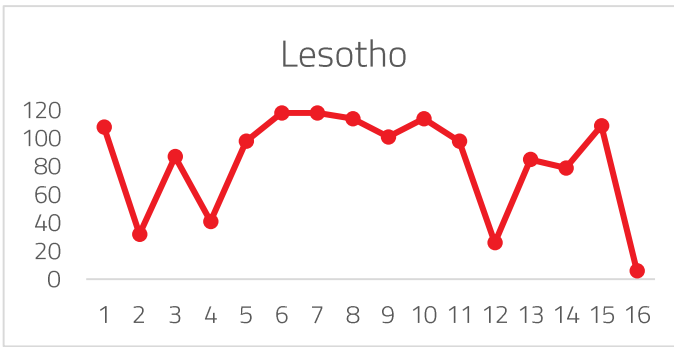
Score: ..... 61.515

Quality group: ..... **MODERATE**

Rank	Value	Rank	Value
I01. ISO 9001 Certified Organizations *1	54.....0.07925	I09. Gross Domestic Product *5	50..... 8523.75
I02. International Academy for Quality Members *1	32.0.0000000	I10. Gini Index *4	28.....31.8
I03. Indexed Quality Papers Published *1	38.....0.03485	I11. ISO 14001 Certified Organizations *1	76..... 0.00493
I04. Universities in International Research Rankings *1	41.0.0000000	I12. Ecological Footprint *6	73.....3.354
I05. Education Index *2	79..... 0.637	I13. Global Innovation Index *2	78.....28.2
I06. Healthy Life Expectancy *3	62.....66.1	I14. Ease of Doing Business Results *7	96.....54.67
I07. At Birth Mortality Rate *4	40.....6.9	I15. World Happiness Index *2	70.....5.199
I08. Global Competitiveness Index *2	93..... 3.845	I16. Employment Engagement Index *4	58.....17.3

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

## LESOTHO



Population (2017): .....2 233 339

### OWSQ 2018

Rank ..... 102

Score: .....84.294

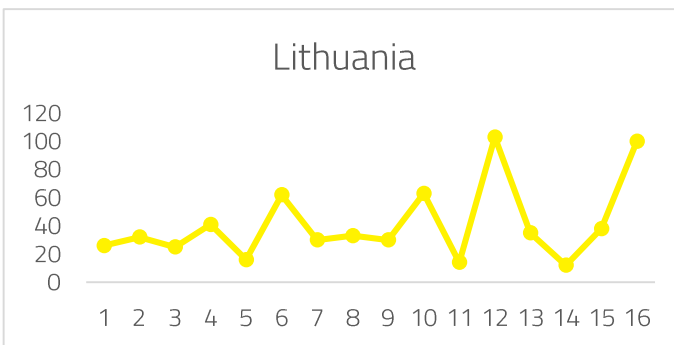
Quality group: ..... **BEGINNER**

	Rank	Value
I01. ISO 9001 Certified Organizations *1	108	0.00179
I02. International Academy for Quality Members *1	32	0.0000000
I03. Indexed Quality Papers Published *1	87	0.00224
I04. Universities in International Research Rankings *1	41	0.0000000
I05. Education Index *2	98	0.502
I06. Healthy Life Expectancy *3	118	46.6
I07. At Birth Mortality Rate *4	118	72.4
I08. Global Competitiveness Index *2	114	3.195

	Rank	Value
I09. Gross Domestic Product *5	101	1181.81
I10. Gini Index *4	114	54.2
I11. ISO 14001 Certified Organizations *1	98	0.00090
I12. Ecological Footprint *6	26	1.462
I13. Global Innovation Index *2	85	27.0
I14. Ease of Doing Business Results *7	79	60.42
I15. World Happiness Index *2	109	3.808
I16. Employment Engagement Index *4	6	35.0

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

## LITHUANIA



Population (2017): .....2 827 721

### OWSQ 2018

Rank ..... 36

Score: .....41.377

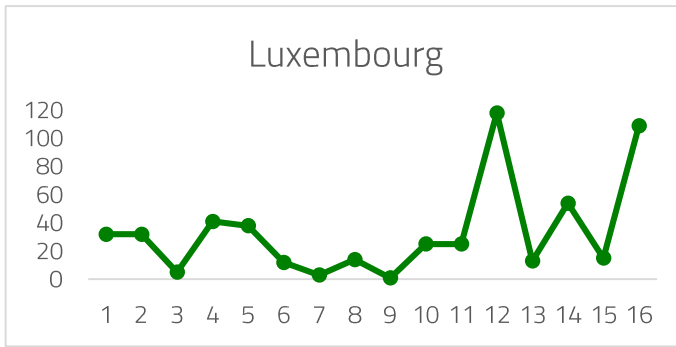
Quality group: ..... **FOLLOWER**

	Rank	Value
I01. ISO 9001 Certified Organizations *1	26	0.40669
I02. International Academy for Quality Members *1	32	0.0000000
I03. Indexed Quality Papers Published *1	25	0.08664
I04. Universities in International Research Rankings *1	41	0.0000000
I05. Education Index *2	16	0.879
I06. Healthy Life Expectancy *3	62	66.1
I07. At Birth Mortality Rate *4	30	4.3
I08. Global Competitiveness Index *2	33	4.584

	Rank	Value
I09. Gross Domestic Product *5	30	16680.68
I10. Gini Index *4	63	37.4
I11. ISO 14001 Certified Organizations *1	14	0.23623
I12. Ecological Footprint *6	103	5.797
I13. Global Innovation Index *2	35	41.2
I14. Ease of Doing Business Results *7	12	79.87
I15. World Happiness Index *2	38	5.952
I16. Employment Engagement Index *4	100	11.2

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

## LUXEMBOURG



Population (2017): ..... 599 449

### OWSQ 2018

Rank ..... 24

Score: ..... 33.370

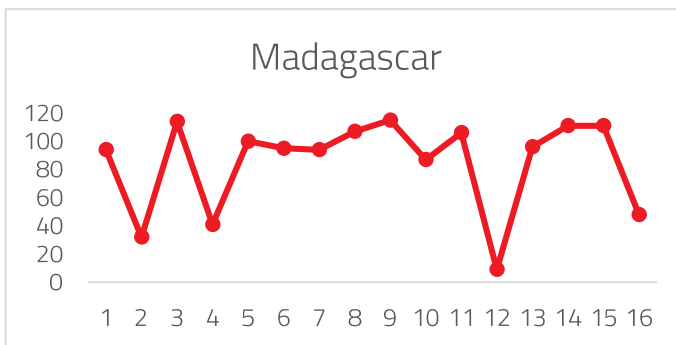
Quality group: ..... **LEADER**

	Rank	Value
I01. ISO 9001 Certified Organizations *1	32	0.34865
I02. International Academy for Quality Members *1	32	0.0000000
I03. Indexed Quality Papers Published *1	5	0.20686
I04. Universities in International Research Rankings *1	41	0.0000000
I05. Education Index *2	38	0.792
I06. Healthy Life Expectancy *3	12	72.6
I07. At Birth Mortality Rate *4	3	2.0
I08. Global Competitiveness Index *2	14	5.232

	Rank	Value
I09. Gross Domestic Product *5	110	103.04
I10. Gini Index *4	25	31.2
I11. ISO 14001 Certified Organizations *1	25	0.14513
I12. Ecological Footprint *6	118	12.285
I13. Global Innovation Index *2	13	54.5
I14. Ease of Doing Business Results *7	54	69.01
I15. World Happiness Index *2	15	6.910
I16. Employment Engagement Index *4	109	8.2

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

## MADAGASCAR



Population (2017): ..... 25 570 895

### OWSQ 2018

Rank ..... 106

Score: ..... 86.363

Quality group: ..... **BEGINNER**

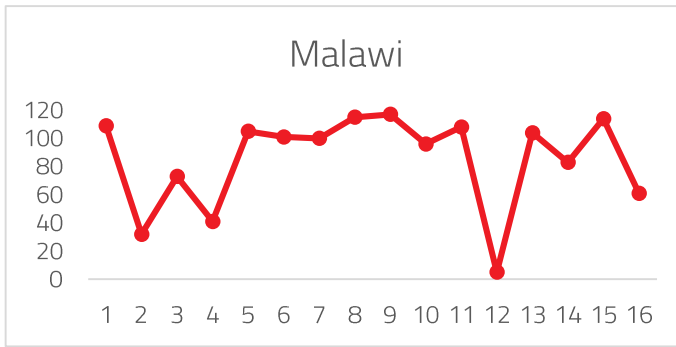
	Rank	Value
I01. ISO 9001 Certified Organizations *1	94	0.00391
I02. International Academy for Quality Members *1	32	0.0000000
I03. Indexed Quality Papers Published *1	114	0.00035
I04. Universities in International Research Rankings *1	41	0.0000000
I05. Education Index *2	100	0.498
I06. Healthy Life Expectancy *3	95	58.3
I07. At Birth Mortality Rate *4	94	34.0
I08. Global Competitiveness Index *2	107	3.405

	Rank	Value
I09. Gross Domestic Product *5	115	449.72
I10. Gini Index *4	87	42.6
I11. ISO 14001 Certified Organizations *1	106	0.00047
I12. Ecological Footprint *6	9	0.977
I13. Global Innovation Index *2	96	24.8
I14. Ease of Doing Business Results *7	111	47.67
I15. World Happiness Index *2	111	3.774
I16. Employment Engagement Index *4	48	18.5

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



## MALAWI



Population (2017): ..... 18 622 104

### OWSQ 2018

Rank ..... 107

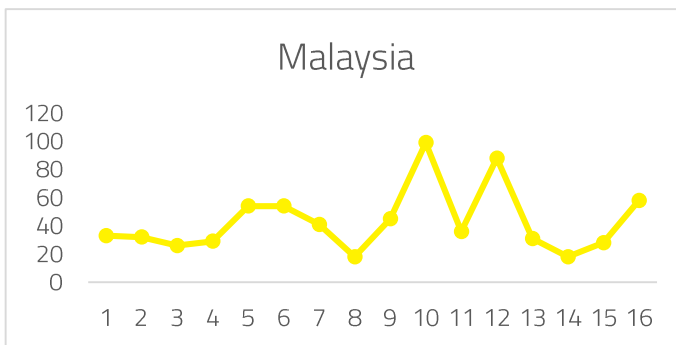
Score: ..... 86.565

Quality group: ..... **BEGINNER**

Rank	Value	Rank	Value
I01. ISO 9001 Certified Organizations *1	109.....0.00134	I09. Gross Domestic Product *5	117 .....338.48
I02. International Academy for Quality Members *1	32.0.0000000	I10. Gini Index *4	96.....45.5
I03. Indexed Quality Papers Published *1	73.....0.00435	I11. ISO 14001 Certified Organizations *1	108..... 0.00038
I04. Universities in International Research Rankings *1	41.0.0000000	I12. Ecological Footprint *6	5.....0.824
I05. Education Index *2	105..... 0.451	I13. Global Innovation Index *2	104.....23.1
I06. Healthy Life Expectancy *3	101..... 56.2	I14. Ease of Doing Business Results *7	83.....58.94
I07. At Birth Mortality Rate *4	100..... 38.9	I15. World Happiness Index *2	114.....3.587
I08. Global Competitiveness Index *2	115..... 3.114	I16. Employment Engagement Index *4	61 .....16.5

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

## MALAYSIA



Population (2017): ..... 31 624264

### OWSQ 2018

Rank ..... 38

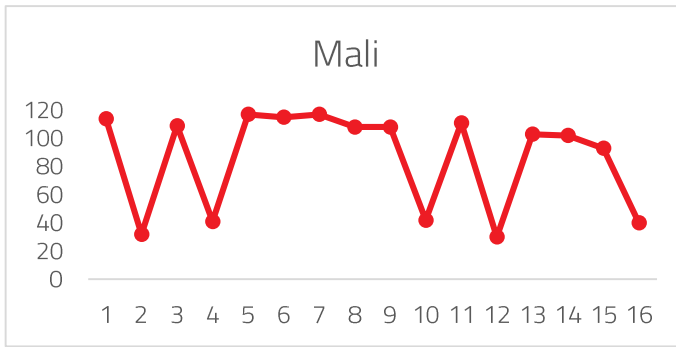
Score: ..... 42.607

Quality group: ..... **FOLLOWER**

Rank	Value	Rank	Value
I01. ISO 9001 Certified Organizations *1	33.....0.32823	I09. Gross Domestic Product *5	45..... 9944.90
I02. International Academy for Quality Members *1	32.0.0000000	I10. Gini Index *4	99.....46.3
I03. Indexed Quality Papers Published *1	26.....0.08373	I11. ISO 14001 Certified Organizations *1	36..... 0.07352
I04. Universities in International Research Rankings *1	29.0.0000632	I12. Ecological Footprint *6	88.....4.423
I05. Education Index *2	54..... 0.719	I13. Global Innovation Index *2	31 .....43.0
I06. Healthy Life Expectancy *3	54..... 66.6	I14. Ease of Doing Business Results *7	18.....78.43
I07. At Birth Mortality Rate *4	41..... 7.1	I15. World Happiness Index *2	28.....6.322
I08. Global Competitiveness Index *2	18..... 5.174	I16. Employment Engagement Index *4	58.....17.3

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

## MALI



Population (2017): ..... 18 541 980

### OWSQ 2018

Rank ..... 111

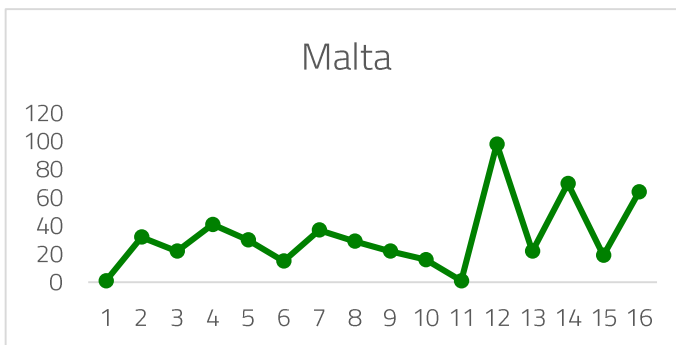
Score: ..... 87.611

Quality group: ..... **BEGINNER**

Rank	Value	Rank	Value
I01. ISO 9001 Certified Organizations *1	.....114.....0.00049	I09. Gross Domestic Product *5	.....108.....824.52
I02. International Academy for Quality Members *1	.....32.0.0000000	I10. Gini Index *4	.....42.....33.0
I03. Indexed Quality Papers Published *1	.....109.....0.00081	I11. ISO 14001 Certified Organizations *1	.....111.....0.00022
I04. Universities in International Research Rankings *1	.....41.0.0000000	I12. Ecological Footprint *6	.....30.....1.538
I05. Education Index *2	.....117.....0.293	I13. Global Innovation Index *2	.....103.....23.3
I06. Healthy Life Expectancy *3	.....115.....50.7	I14. Ease of Doing Business Results *7	.....102.....52.92
I07. At Birth Mortality Rate *4	.....117.....68.0	I15. World Happiness Index *2	.....93.....4.447
I08. Global Competitiveness Index *2	.....108.....3.330	I16. Employment Engagement Index *4	.....40.....20.6

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

## MALTA



Population (2017): ..... 465 292

### OWSQ 2018

Rank ..... 21

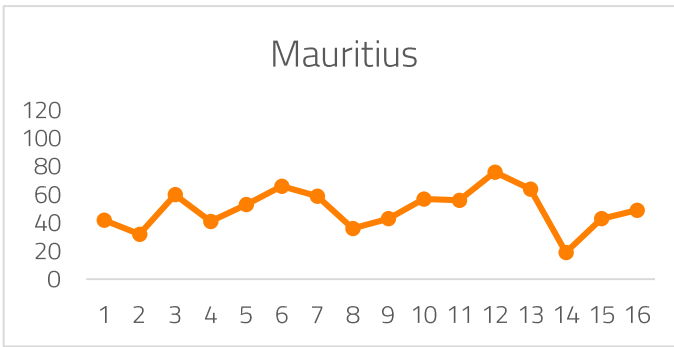
Score: ..... 32.551

Quality group: ..... **LEADER**

Rank	Value	Rank	Value
I01. ISO 9001 Certified Organizations *1	.....1.....4.00609	I09. Gross Domestic Product *5	.....22.....26945.98
I02. International Academy for Quality Members *1	.....32.0.0000000	I10. Gini Index *4	.....16.....29.0
I03. Indexed Quality Papers Published *1	.....22.....0.09242	I11. ISO 14001 Certified Organizations *1	.....1.....1.38623
I04. Universities in International Research Rankings *1	.....41.0.0000000	I12. Ecological Footprint *6	.....98.....4.889
I05. Education Index *2	.....30.....0.818	I13. Global Innovation Index *2	.....22.....50.3
I06. Healthy Life Expectancy *3	.....15.....72.2	I14. Ease of Doing Business Results *7	.....70.....64.72
I07. At Birth Mortality Rate *4	.....37.....5.9	I15. World Happiness Index *2	.....19.....6.627
I08. Global Competitiveness Index *2	.....29.....4.648	I16. Employment Engagement Index *4	.....64.....16.3

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

## MAURITIUS



Population (2017): .....1 264 613

### OWSQ 2018

Rank ..... 47

Score: ..... 49.787

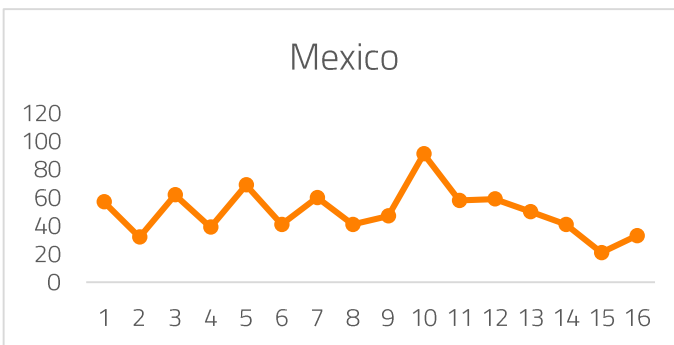
Quality group: ..... **MODERATE**

	Rank	Value
I01. ISO 9001 Certified Organizations *1	42	0.18741
I02. International Academy for Quality Members *1	32	0.0000000
I03. Indexed Quality Papers Published *1	60	0.00712
I04. Universities in International Research Rankings *1	41	0.0000000
I05. Education Index *2	53	0.729
I06. Healthy Life Expectancy *3	66	65.8
I07. At Birth Mortality Rate *4	59	12.2
I08. Global Competitiveness Index *2	36	4.523

	Rank	Value
I09. Gross Domestic Product *5	43	10547.22
I10. Gini Index *4	57	35.8
I11. ISO 14001 Certified Organizations *1	56	0.01344
I12. Ecological Footprint *6	76	3.495
I13. Global Innovation Index *2	64	31.3
I14. Ease of Doing Business Results *7	19	77.54
I15. World Happiness Index *2	43	5.891
I16. Employment Engagement Index *4	49	18.4

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

## MEXICO



Population (2017): ..... 129 163 276

### OWSQ 2018

Rank ..... 46

Score: ..... 49.471

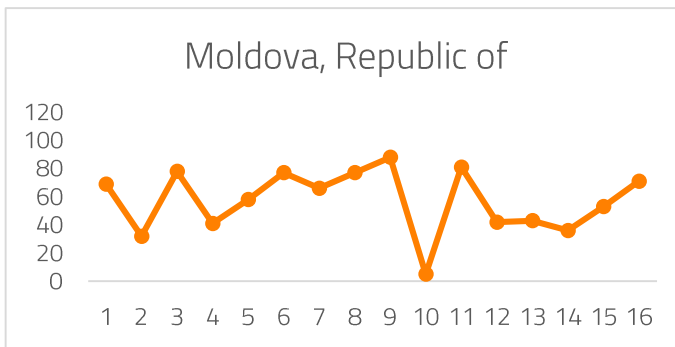
Quality group: ..... **MODERATE**

	Rank	Value
I01. ISO 9001 Certified Organizations *1	57	0.05440
I02. International Academy for Quality Members *1	32	0.0000000
I03. Indexed Quality Papers Published *1	62	0.00681
I04. Universities in International Research Rankings *1	39	0.0000077
I05. Education Index *2	69	0.678
I06. Healthy Life Expectancy *3	41	67.7
I07. At Birth Mortality Rate *4	60	12.6
I08. Global Competitiveness Index *2	41	4.435

	Rank	Value
I09. Gross Domestic Product *5	47	8902.83
I10. Gini Index *4	91	43.4
I11. ISO 14001 Certified Organizations *1	58	0.01207
I12. Ecological Footprint *6	59	2.549
I13. Global Innovation Index *2	50	35.3
I14. Ease of Doing Business Results *7	41	72.27
I15. World Happiness Index *2	21	6.488
I16. Employment Engagement Index *4	33	23.4

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

## MOLDOVA, REPUBLIC OF



Population (2017): .....3 549 750

### OWSQ 2018

Rank ..... 61

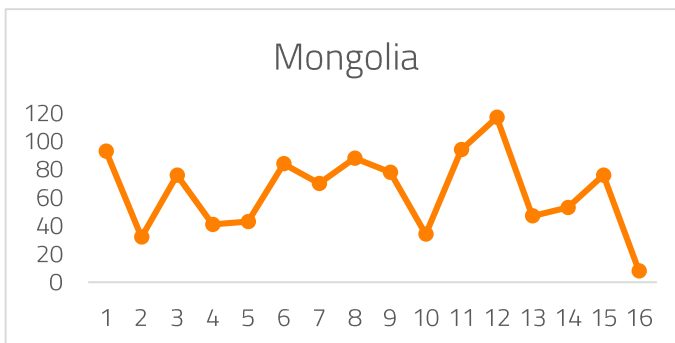
Score: ..... 57.977

Quality group: ..... **MODERATE**

Rank	Value	Rank	Value
I01. ISO 9001 Certified Organizations *1	69.....0.03268	I09. Gross Domestic Product *5	88..... 2289.88
I02. International Academy for Quality Members *1	32.0.0000000	I10. Gini Index *4	5.....26.3
I03. Indexed Quality Papers Published *1	78.....0.00310	I11. ISO 14001 Certified Organizations *1	81 ..... 0.00423
I04. Universities in International Research Rankings *1	41.0.0000000	I12. Ecological Footprint *6	42.....1.927
I05. Education Index *2	58..... 0.710	I13. Global Innovation Index *2	43.....37.6
I06. Healthy Life Expectancy *3	77.....63.6	I14. Ease of Doing Business Results *7	36.....73.00
I07. At Birth Mortality Rate *4	66..... 13.7	I15. World Happiness Index *2	53.....5.640
I08. Global Competitiveness Index *2	77..... 3.992	I16. Employment Engagement Index *4	71 .....15.3

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

## MONGOLIA



Population (2017): .....3 075 647

### OWSQ 2018

Rank ..... 75

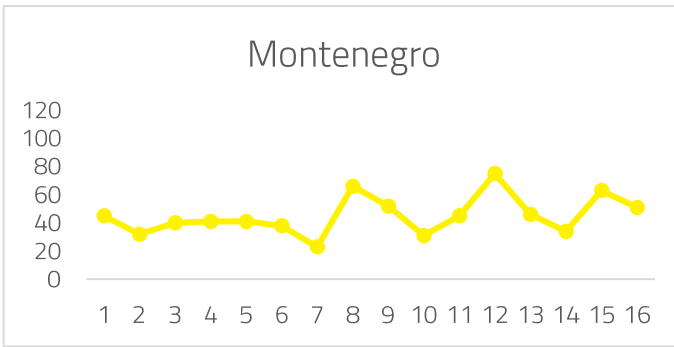
Score: ..... 65.307

Quality group: ..... **MODERATE**

Rank	Value	Rank	Value
I01. ISO 9001 Certified Organizations *1	93.....0.00585	I09. Gross Domestic Product *5	78..... 3735.16
I02. International Academy for Quality Members *1	32.0.0000000	I10. Gini Index *4	34 .....32.3
I03. Indexed Quality Papers Published *1	76.....0.00358	I11. ISO 14001 Certified Organizations *1	94 ..... 0.001.0
I04. Universities in International Research Rankings *1	41.0.0000000	I12. Ecological Footprint *6	117 .....9.500
I05. Education Index *2	43..... 0.766	I13. Global Innovation Index *2	47.....35.9
I06. Healthy Life Expectancy *3	84.....61.9	I14. Ease of Doing Business Results *7	53.....69.03
I07. At Birth Mortality Rate *4	70..... 15.4	I15. World Happiness Index *2	76.....5.125
I08. Global Competitiveness Index *2	88..... 3.899	I16. Employment Engagement Index *4	8 .....34.5

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

## MONTENEGRO



Population (2017): ..... 622 471

### OWSQ 2018

Rank ..... 43

Score: ..... 45.793

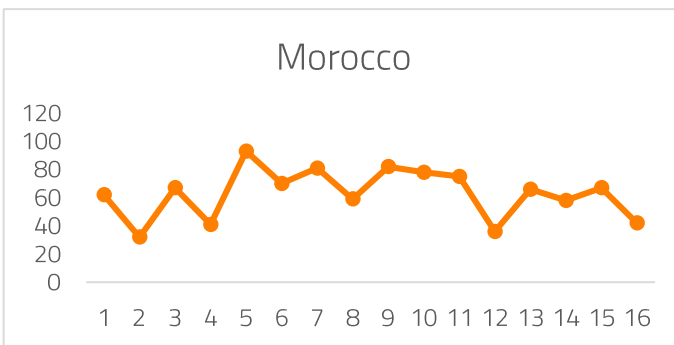
Quality group: ..... **FOLLOWER**

	Rank	Value
I01. ISO 9001 Certified Organizations *1	45	0.14780
I02. International Academy for Quality Members *1	32	0.0000000
I03. Indexed Quality Papers Published *1	40	0.03052
I04. Universities in International Research Rankings *1	41	0.0000000
I05. Education Index *2	41	0.790
I06. Healthy Life Expectancy *3	38	68.1
I07. At Birth Mortality Rate *4	23	3.5
I08. Global Competitiveness Index *2	66	4.145

	Rank	Value
I09. Gross Domestic Product *5	52	7669.57
I10. Gini Index *4	31	31.9
I11. ISO 14001 Certified Organizations *1	45	0.03856
I12. Ecological Footprint *6	75	3.417
I13. Global Innovation Index *2	46	36.5
I14. Ease of Doing Business Results *7	34	73.18
I15. World Happiness Index *2	63	5.347
I16. Employment Engagement Index *4	51	18.3

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

## MOROCCO



Population (2017): ..... 35 739 580

### OWSQ 2018

Rank ..... 71

Score: ..... 63.407

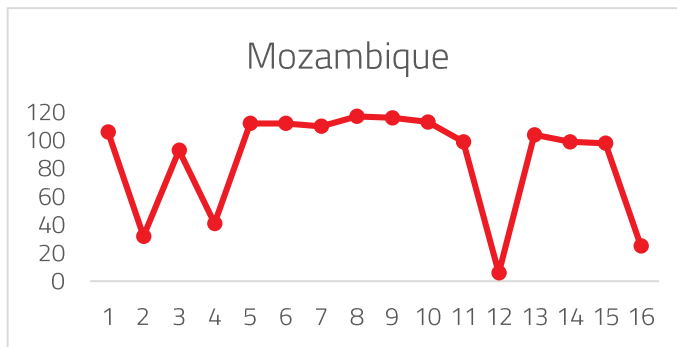
Quality group: ..... **MODERATE**

	Rank	Value
I01. ISO 9001 Certified Organizations *1	62	0.04264
I02. International Academy for Quality Members *1	32	0.0000000
I03. Indexed Quality Papers Published *1	67	0.00543
I04. Universities in International Research Rankings *1	41	0.0000000
I05. Education Index *2	93	0.529
I06. Healthy Life Expectancy *3	70	65.3
I07. At Birth Mortality Rate *4	81	23.3
I08. Global Competitiveness Index *2	59	4.244

	Rank	Value
I09. Gross Domestic Product *5	82	3007.24
I10. Gini Index *4	78	40.7
I11. ISO 14001 Certified Organizations *1	75	0.00509
I12. Ecological Footprint *6	36	1.750
I13. Global Innovation Index *2	66	31.1
I14. Ease of Doing Business Results *7	58	67.91
I15. World Happiness Index *2	67	5.254
I16. Employment Engagement Index *4	42	20.5

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

## MOZAMBIQUE



Population (2017): .....29 668 834

## OWSQ 2018

Rank ..... 110

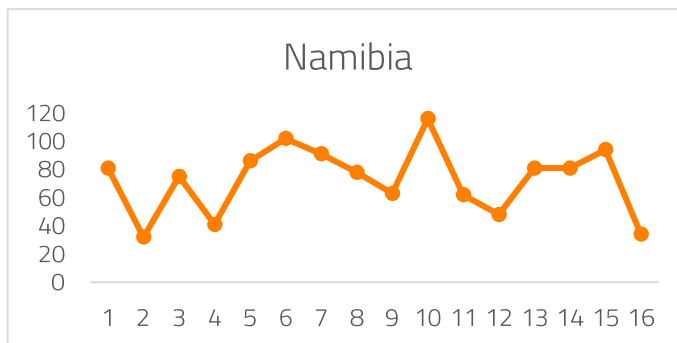
Score: .....87.390

Quality group: ..... **BEGINNER**

Rank	Value	Rank	Value
I01. ISO 9001 Certified Organizations *1	106.....0.00219	I09. Gross Domestic Product *5	116.....415.72
I02. International Academy for Quality Members *1	32.0.0000000	I10. Gini Index *4	113.....54.0
I03. Indexed Quality Papers Published *1	93.....0.00165	I11. ISO 14001 Certified Organizations *1	99..... 0.00084
I04. Universities in International Research Rankings *1	41.0.0000000	I12. Ecological Footprint *6	6.....0.870
I05. Education Index *2	112..... 0.385	I13. Global Innovation Index *2	104.....23.1
I06. Healthy Life Expectancy *3	112..... 52.2	I14. Ease of Doing Business Results *7	99.....54.00
I07. At Birth Mortality Rate *4	110..... 53.1	I15. World Happiness Index *2	98.....4.417
I08. Global Competitiveness Index *2	117..... 2.883	I16. Employment Engagement Index *4	25.....28.0

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

## NAMIBIA



Population (2017): .....2 533 794

## OWSQ 2018

Rank ..... 87

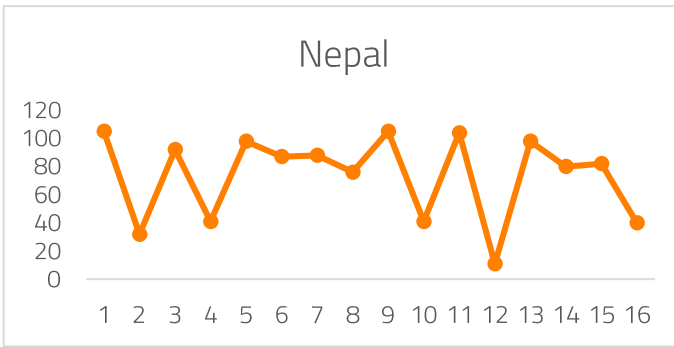
Score: ..... 73.512

Quality group: ..... **MODERATE**

Rank	Value	Rank	Value
I01. ISO 9001 Certified Organizations *1	81.....0.01776	I09. Gross Domestic Product *5	63..... 5227.18
I02. International Academy for Quality Members *1	32.0.0000000	I10. Gini Index *4	116.....61.0
I03. Indexed Quality Papers Published *1	75.....0.00395	I11. ISO 14001 Certified Organizations *1	62..... 0.00987
I04. Universities in International Research Rankings *1	41.0.0000000	I12. Ecological Footprint *5	48.....2.087
I05. Education Index *2	86..... 0.571	I13. Global Innovation Index *2	81.....28.0
I06. Healthy Life Expectancy *3	102..... 55.9	I14. Ease of Doing Business Results *7	81 .....59.94
I07. At Birth Mortality Rate *4	91..... 32.3	I15. World Happiness Index *2	94.....4.441
I08. Global Competitiveness Index *2	78..... 3.991	I16. Employment Engagement Index *4	34.....23.0

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

## NEPAL



Population (2017): .....29 304 998

### OWSQ 2018

Rank ..... 90

Score: ..... 74.678

Quality group: ..... **MODERATE**

	Rank	Value		Rank	Value
I01. ISO 9001 Certified Organizations *1	105	0.00256	I09. Gross Domestic Product *5	105	835.08
I02. International Academy for Quality Members *1	32	0.0000000	I10. Gini Index *4	41	32.8
I03. Indexed Quality Papers Published *1	92	0.00177	I11. ISO 14001 Certified Organizations *1	104	0.00065
I04. Universities in International Research Rankings *1	41	0.0000000	I12. Ecological Footprint *6	11	1.026
I05. Education Index *2	98	0.502	I13. Global Innovation Index *2	98	24.2
I06. Healthy Life Expectancy *3	87	61.3	I14. Ease of Doing Business Results *7	80	59.95
I07. At Birth Mortality Rate *4	88	28.4	I15. World Happiness Index *2	82	4.880
I08. Global Competitiveness Index *2	76	4.018	I16. Employment Engagement Index *4	40	20.6

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

## NETHERLANDS



Population (2017): ..... 17 132 854

### OWSQ 2018

Rank ..... 6

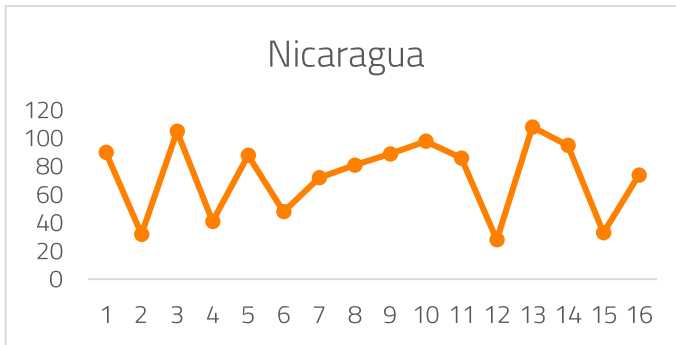
Score: ..... 23.221

Quality group: ..... **LEADER**

	Rank	Value		Rank	Value
I01. ISO 9001 Certified Organizations *1	17	0.60270	I09. Gross Domestic Product *5	9	48223.16
I02. International Academy for Quality Members *1	8	0.0001751	I10. Gini Index *4	19	29.3
I03. Indexed Quality Papers Published *1	6	0.20073	I11. ISO 14001 Certified Organizations *1	23	0.15625
I04. Universities in International Research Rankings *1	7	0.0007004	I12. Ecological Footprint *6	107	5.923
I05. Education Index *2	7	0.906	I13. Global Innovation Index *2	2	63.3
I06. Healthy Life Expectancy *3	16	72.1	I14. Ease of Doing Business Results *7	26	76.03
I07. At Birth Mortality Rate *4	20	3.2	I15. World Happiness Index *2	5	7.441
I08. Global Competitiveness Index *2	3	5.662	I16. Employment Engagement Index *4	95	12.2

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

## NICARAGUA



Population (2017): .....6 217 581

### OWSQ 2018

Rank ..... 85

Score: ..... 73.0100

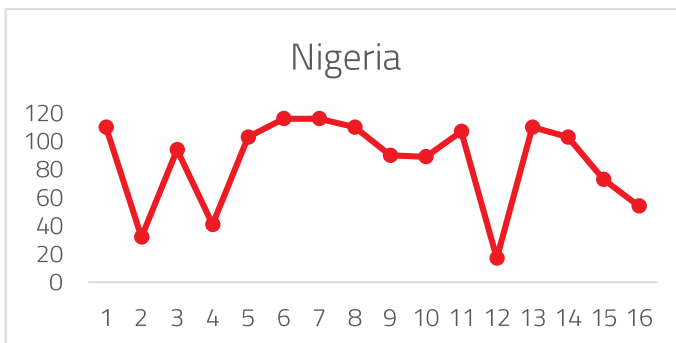
Quality group: ..... **MODERATE**

	Rank	Value
I01. ISO 9001 Certified Organizations *1	90	0.00852
I02. International Academy for Quality Members *1	32	0.0000000
I03. Indexed Quality Papers Published *1	105	0.00097
I04. Universities in International Research Rankings *1	41	0.0000000
I05. Education Index *2	88	0.558
I06. Healthy Life Expectancy *3	48	66.9
I07. At Birth Mortality Rate *4	72	16.8
I08. Global Competitiveness Index *2	81	3.950

	Rank	Value
I09. Gross Domestic Product *5	89	221.81
I10. Gini Index *4	98	46.2
I11. ISO 14001 Certified Organizations *1	86	0.00257
I12. Ecological Footprint *6	28	1.475
I13. Global Innovation Index *2	108	23.1
I14. Ease of Doing Business Results *7	95	55.39
I15. World Happiness Index *2	33	6.141
I16. Employment Engagement Index *4	74	14.4

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

## NIGERIA



Population (2017): ..... 190 886 311

### OWSQ 2018

Rank ..... 105

Score: ..... 86.104

Quality group: ..... **BEGINNER**

	Rank	Value
I01. ISO 9001 Certified Organizations *1	110	0.00126
I02. International Academy for Quality Members *1	32	0.0000000
I03. Indexed Quality Papers Published *1	94	0.00163
I04. Universities in International Research Rankings *1	41	0.0000000
I05. Education Index *2	103	0.483
I06. Healthy Life Expectancy *3	116	48.9
I07. At Birth Mortality Rate *4	116	66.9
I08. Global Competitiveness Index *2	110	3.300

	Rank	Value
I09. Gross Domestic Product *5	90	1968.56
I10. Gini Index *4	89	43.0
I11. ISO 14001 Certified Organizations *1	107	0.00041
I12. Ecological Footprint *6	17	1.115
I13. Global Innovation Index *2	110	22.4
I14. Ease of Doing Business Results *7	103	52.03
I15. World Happiness Index *2	73	5.155
I16. Employment Engagement Index *4	54	17.4

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



## NORWAY



Population (2017): .....5 282 223

### OWSQ 2018

Rank .....3

Score: ..... 19.537

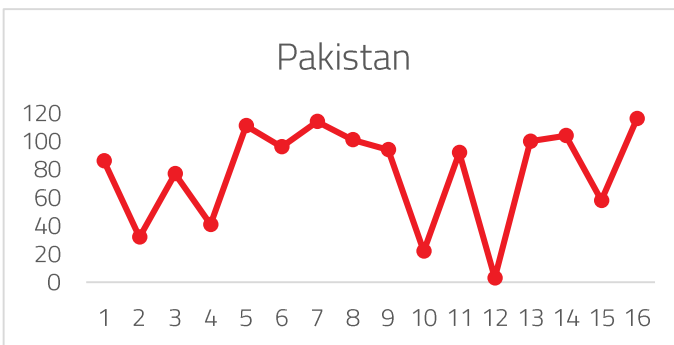
Quality group: ..... **LEADER**

	Rank	Value
I01. ISO 9001 Certified Organizations *1	30	0.37901
I02. International Academy for Quality Members *1	6	0.0001893
I03. Indexed Quality Papers Published *1	10	0.18534
I04. Universities in International Research Rankings *1	11	0.0005679
I05. Education Index *2	5	0.915
I06. Healthy Life Expectancy *3	8	73.0
I07. At Birth Mortality Rate *4	5	2.1
I08. Global Competitiveness Index *2	9	5.404

	Rank	Value
I09. Gross Domestic Product *5	3	75504.57
I10. Gini Index *4	10	27.5
I11. ISO 14001 Certified Organizations *1	24	0.15240
I12. Ecological Footprint *6	108	6.033
I13. Global Innovation Index *2	17	52.6
I14. Ease of Doing Business Results *7	5	82.16
I15. World Happiness Index *2	2	7.594
I16. Employment Engagement Index *4	60	17.2

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

## PAKISTAN



Population (2017): ..... 197 015 955

### OWSQ 2018

Rank .....97

Score: ..... 79.061

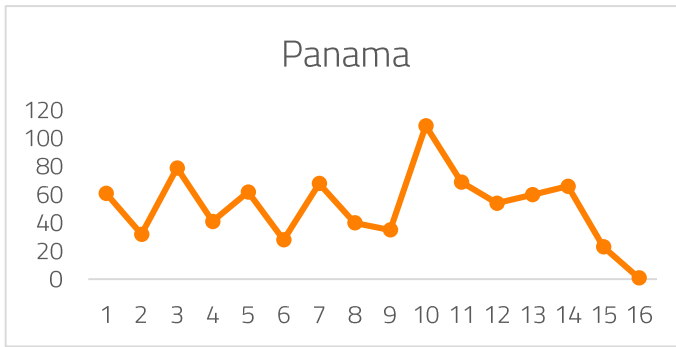
Quality group: ..... **BEGINNER**

	Rank	Value
I01. ISO 9001 Certified Organizations *1	86	0.01097
I02. International Academy for Quality Members *1	32	0.0000000
I03. Indexed Quality Papers Published *1	77	0.00332
I04. Universities in International Research Rankings *1	41	0.0000000
I05. Education Index *2	111	0.411
I06. Healthy Life Expectancy *3	96	57.7
I07. At Birth Mortality Rate *4	114	64.2
I08. Global Competitiveness Index *2	101	3.669

	Rank	Value
I09. Gross Domestic Product *5	94	1547.85
I10. Gini Index *4	22	30.7
I11. ISO 14001 Certified Organizations *1	92	0.00174
I12. Ecological Footprint *6	3	0.789
I13. Global Innovation Index *2	100	24.1
I14. Ease of Doing Business Results *7	104	51.65
I15. World Happiness Index *2	58	5.472
I16. Employment Engagement Index *4	116	5.2

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

## PANAMA



Population (2017): .....4 098 587

### OWSQ 2018

Rank ..... 51

Score: ..... 51.057

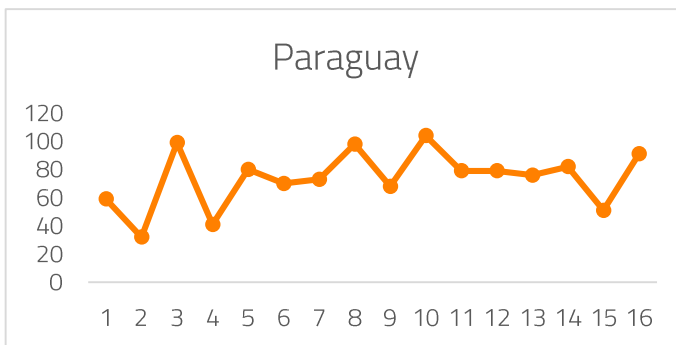
Quality group: ..... **MODERATE**

	Rank	Value
I01. ISO 9001 Certified Organizations *1	61	0.04319
I02. International Academy for Quality Members *1	32	0.0000000
I03. Indexed Quality Papers Published *1	79	0.00293
I04. Universities in International Research Rankings *1	41	0.0000000
I05. Education Index *2	62	0.692
I06. Healthy Life Expectancy *3	28	69.4
I07. At Birth Mortality Rate *4	68	14.1
I08. Global Competitiveness Index *2	40	4.437

	Rank	Value
I09. Gross Domestic Product *5	35	15087.68
I10. Gini Index *4	109	50.4
I11. ISO 14001 Certified Organizations *1	69	0.00756
I12. Ecological Footprint *6	54	2.325
I13. Global Innovation Index *2	60	32.4
I14. Ease of Doing Business Results *7	66	65.27
I15. World Happiness Index *2	23	6.430
I16. Employment Engagement Index *4	1	39.4

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

## PARAGUAY



Population (2017): .....6 811 297

### OWSQ 2018

Rank ..... 88

Score: ..... 74.245

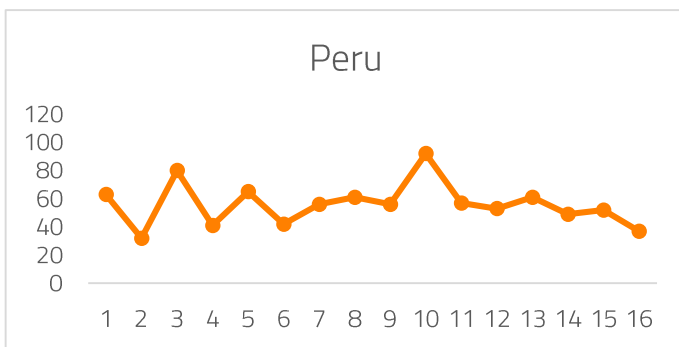
Quality group: ..... **MODERATE**

	Rank	Value
I01. ISO 9001 Certified Organizations *1	59	0.05256
I02. International Academy for Quality Members *1	32	0.0000000
I03. Indexed Quality Papers Published *1	99	0.00117
I04. Universities in International Research Rankings *1	41	0.0000000
I05. Education Index *2	80	0.631
I06. Healthy Life Expectancy *3	70	65.3
I07. At Birth Mortality Rate *4	73	17.0
I08. Global Competitiveness Index *2	98	3.711

	Rank	Value
I09. Gross Domestic Product *5	68	4365.53
I10. Gini Index *4	104	47.9
I11. ISO 14001 Certified Organizations *1	79	0.00440
I12. Ecological Footprint *5	79	3.676
I13. Global Innovation Index *2	76	28.7
I14. Ease of Doing Business Results *7	82	59.18
I15. World Happiness Index *2	51	5.681
I16. Employment Engagement Index *4	91	12.3

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

## PERU



Population (2017): .....32 165 485

### OWSQ 2018

Rank ..... 57

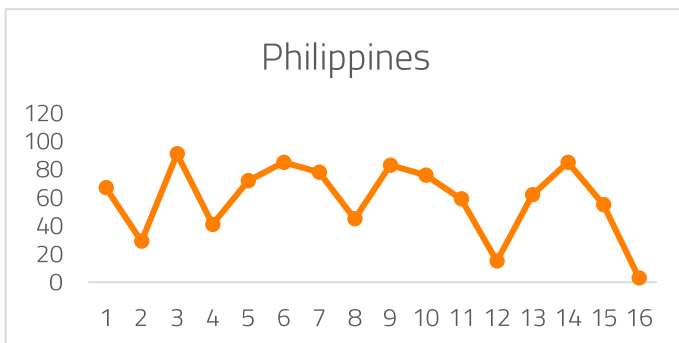
Score: ..... 56.077

Quality group: ..... **MODERATE**

	Rank	Value		Rank	Value
I01. ISO 9001 Certified Organizations *1	63	0.04104	I09. Gross Domestic Product *5	56	6571.93
I02. International Academy for Quality Members *1	32	0.0000000	I10. Gini Index *4	92	43.8
I03. Indexed Quality Papers Published *1	80	0.00280	I11. ISO 14001 Certified Organizations *1	57	0.01328
I04. Universities in International Research Rankings *1	41	0.0000000	I12. Ecological Footprint *6	53	2.294
I05. Education Index *2	65	0.6889	I13. Global Innovation Index *2	61	31.8
I06. Healthy Life Expectancy *3	42	67.5	I14. Ease of Doing Business Results *7	49	69.45
I07. At Birth Mortality Rate *4	56	11.9	I15. World Happiness Index *2	52	5.663
I08. Global Competitiveness Index *2	61	4.223	I16. Employment Engagement Index *4	37	22.4

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

## PHILIPPINES



Population (2017): ..... 104 918 090

### OWSQ 2018

Rank ..... 64

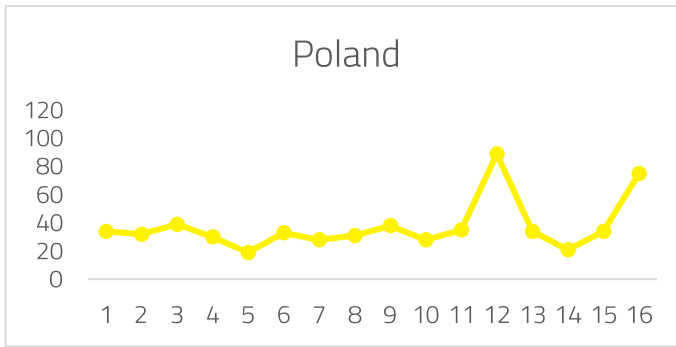
Score: ..... 59.373

Quality group: ..... **MODERATE**

	Rank	Value		Rank	Value
I01. ISO 9001 Certified Organizations *1	67	0.03551	I09. Gross Domestic Product *5	83	2988.95
I02. International Academy for Quality Members *1	29	0.0000095	I10. Gini Index *4	76	40.1
I03. Indexed Quality Papers Published *1	91	0.00189	I11. ISO 14001 Certified Organizations *1	59	0.01019
I04. Universities in International Research Rankings *1	41	0.0000000	I12. Ecological Footprint *6	15	1.104
I05. Education Index *2	72	0.661	I13. Global Innovation Index *2	62	31.6
I06. Healthy Life Expectancy *3	85	61.7	I14. Ease of Doing Business Results *7	85	58.74
I07. At Birth Mortality Rate *4	78	21.5	I15. World Happiness Index *2	55	5.524
I08. Global Competitiveness Index *2	45	4.351	I16. Employment Engagement Index *4	3	36.5

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

## POLAND



Population (2017): .....37 975 841

### OWSQ 2018

Rank ..... 30

Score: ..... 37.666

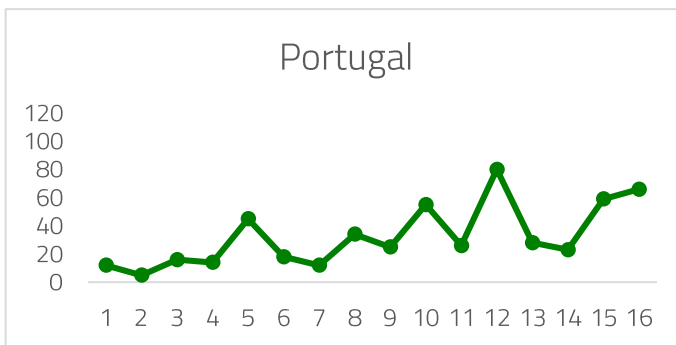
Quality group: ..... **FOLLOWER**

	Rank	Value
I01. ISO 9001 Certified Organizations *1	34	0.31999
I02. International Academy for Quality Members *1	32	0.0000000
I03. Indexed Quality Papers Published *1	39	0.03281
I04. Universities in International Research Rankings *1	30	0.0000527
I05. Education Index *2	19	0.866
I06. Healthy Life Expectancy *3	33	68.5
I07. At Birth Mortality Rate *4	28	4.0
I08. Global Competitiveness Index *2	31	4.594

	Rank	Value
I09. Gross Domestic Product *5	38	13811.66
I10. Gini Index *4	28	31.8
I11. ISO 14001 Certified Organizations *1	35	0.08384
I12. Ecological Footprint *6	89	4.443
I13. Global Innovation Index *2	34	41.7
I14. Ease of Doing Business Results *7	21	77.30
I15. World Happiness Index *2	34	6.123
I16. Employment Engagement Index *4	75	14.3

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

## PORTUGAL



Population (2017): ..... 10 293 718

### OWSQ 2018

Rank ..... 23

Score: ..... 33.106

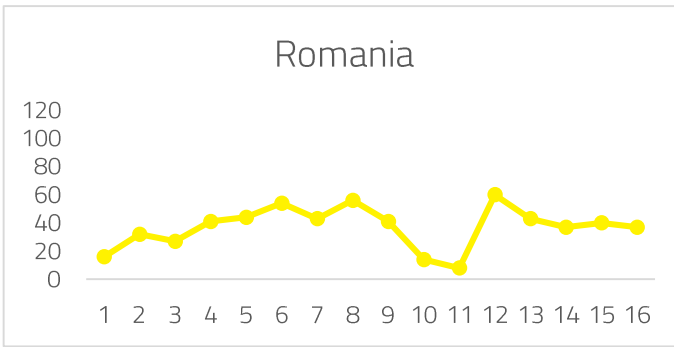
Quality group: ..... **LEADER**

	Rank	Value
I01. ISO 9001 Certified Organizations *1	12	0.69557
I02. International Academy for Quality Members *1	5	0.0002914
I03. Indexed Quality Papers Published *1	16	0.15223
I04. Universities in International Research Rankings *1	14	0.0004857
I05. Education Index *2	45	0.759
I06. Healthy Life Expectancy *3	18	72.0
I07. At Birth Mortality Rate *4	12	2.9
I08. Global Competitiveness Index *2	34	4.567

	Rank	Value
I09. Gross Domestic Product *5	25	21136.30
I10. Gini Index *4	55	35.5
I11. ISO 14001 Certified Organizations *1	26	0.14339
I12. Ecological Footprint *6	80	3.688
I13. Global Innovation Index *2	28	45.7
I14. Ease of Doing Business Results *7	23	76.84
I15. World Happiness Index *2	59	5.410
I16. Employment Engagement Index *4	66	16.2

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

## ROMANIA



Population (2017): ..... 19 586 539

### OWSQ 2018

Rank ..... 28

Score: ..... 37.490

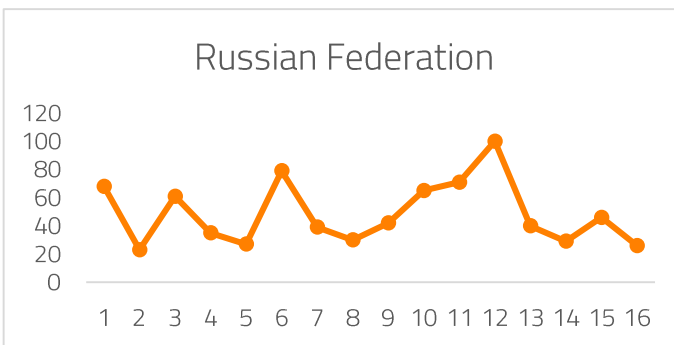
Quality group: ..... **FOLLOWER**

	Rank	Value
I01. ISO 9001 Certified Organizations *1	16	0.62334
I02. International Academy for Quality Members *1	32	0.0000000
I03. Indexed Quality Papers Published *1	27	0.08230
I04. Universities in International Research Rankings *1	41	0.0000000
I05. Education Index *2	44	0.762
I06. Healthy Life Expectancy *3	54	66.6
I07. At Birth Mortality Rate *4	43	7.7
I08. Global Competitiveness Index *2	56	4.277

	Rank	Value
I09. Gross Domestic Product *5	41	10813.72
I10. Gini Index *4	14	28.3
I11. ISO 14001 Certified Organizations *1	8	0.31016
I12. Ecological Footprint *6	60	2.799
I13. Global Innovation Index *2	43	37.6
I14. Ease of Doing Business Results *7	37	72.87
I15. World Happiness Index *2	40	5.945
I16. Employment Engagement Index *4	37	22.4

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

## RUSSIAN FEDERATION



Population (2017): ..... 144 495 044

### OWSQ 2018

Rank ..... 45

Score: ..... 48.853

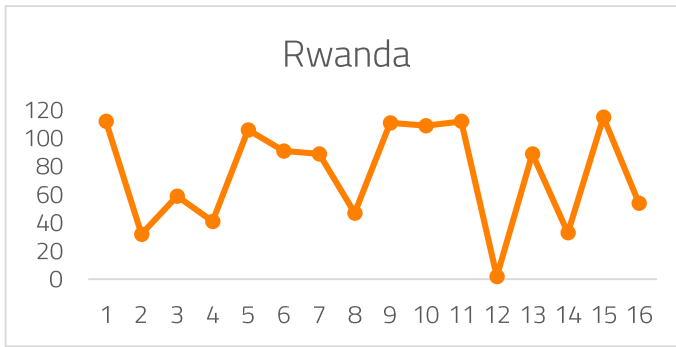
Quality group: ..... **MODERATE**

	Rank	Value
I01. ISO 9001 Certified Organizations *1	68	0.03518
I02. International Academy for Quality Members *1	23	0.0000208
I03. Indexed Quality Papers Published *1	61	0.00684
I04. Universities in International Research Rankings *1	35	0.0000208
I05. Education Index *2	27	0.832
I06. Healthy Life Expectancy *3	79	63.5
I07. At Birth Mortality Rate *4	39	6.6
I08. Global Competitiveness Index *2	30	4.642

	Rank	Value
I09. Gross Domestic Product *5	42	10743.10
I10. Gini Index *4	65	37.7
I11. ISO 14001 Certified Organizations *1	71	0.00718
I12. Ecological Footprint *6	100	5.568
I13. Global Innovation Index *2	40	37.9
I14. Ease of Doing Business Results *7	29	75.50
I15. World Happiness Index *2	46	5.810
I16. Employment Engagement Index *4	26	27.2

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

## RWANDA



Population (2017): ..... 12 208 407

### OWSQ 2018

Rank ..... 94

Score: ..... 75.839

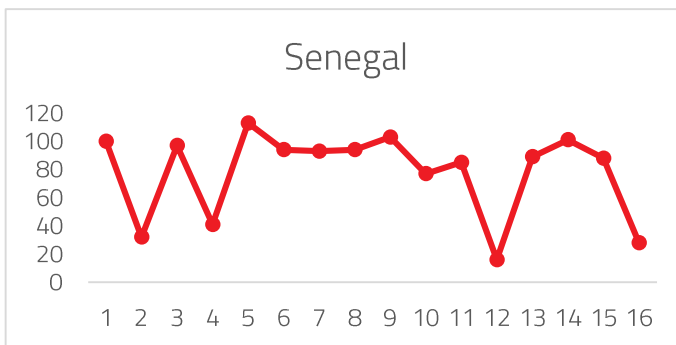
Quality group: ..... **MODERATE**

	Rank	Value
I01. ISO 9001 Certified Organizations *1	112	0.00074
I02. International Academy for Quality Members *1	32	0.0000000
I03. Indexed Quality Papers Published *1	59	0.00811
I04. Universities in International Research Rankings *1	41	0.0000000
I05. Education Index *2	106	0.450
I06. Healthy Life Expectancy *3	91	59.9
I07. At Birth Mortality Rate *4	89	29.2
I08. Global Competitiveness Index *2	47	4.349

	Rank	Value
I09. Gross Domestic Product *5	111	748.39
I10. Gini Index *4	109	50.4
I11. ISO 14001 Certified Organizations *1	112	0.00016
I12. Ecological Footprint *6	2	0.775
I13. Global Innovation Index *2	89	26.5
I14. Ease of Doing Business Results *7	33	73.40
I15. World Happiness Index *2	115	3.408
I16. Employment Engagement Index *4	54	17.4

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

## SENEGAL



Population (2017): ..... 15 850 567

### OWSQ 2018

Rank ..... 98

Score: ..... 79.063

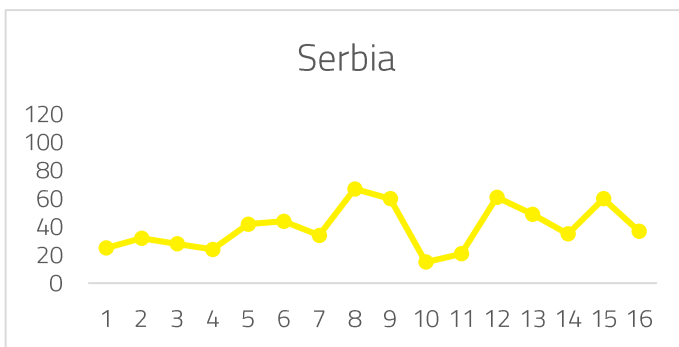
Quality group: ..... **BEGINNER**

	Rank	Value
I01. ISO 9001 Certified Organizations *1	100	0.00284
I02. International Academy for Quality Members *1	32	0.0000000
I03. Indexed Quality Papers Published *1	97	0.00132
I04. Universities in International Research Rankings *1	41	0.0000000
I05. Education Index *2	113	0.368
I06. Healthy Life Expectancy *3	94	58.8
I07. At Birth Mortality Rate *4	93	33.6
I08. Global Competitiveness Index *2	94	3.809

	Rank	Value
I09. Gross Domestic Product *5	103	1033.07
I10. Gini Index *4	77	40.3
I11. ISO 14001 Certified Organizations *1	85	0.00278
I12. Ecological Footprint *6	16	1.112
I13. Global Innovation Index *2	89	26.5
I14. Ease of Doing Business Results *7	101	53.06
I15. World Happiness Index *2	88	4.631
I16. Employment Engagement Index *4	28	25.5

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

## SERBIA



Population (2017): .....7 022 268

### OWSQ 2018

Rank ..... 33

Score: ..... 40.423

Quality group: ..... **FOLLOWER**

	Rank	Value
I01. ISO 9001 Certified Organizations *1	25	0.42963
I02. International Academy for Quality Members *1	32	0.0000000
I03. Indexed Quality Papers Published *1	28	0.07775
I04. Universities in International Research Rankings *1	24	0.0001424
I05. Education Index *2	42	0.778
I06. Healthy Life Expectancy *3	44	67.4
I07. At Birth Mortality Rate *4	34	5.1
I08. Global Competitiveness Index *2	67	4.141

	Rank	Value
I09. Gross Domestic Product *5	60	5900.04
I10. Gini Index *4	15	28.5
I11. ISO 14001 Certified Organizations *1	21	0.16220
I12. Ecological Footprint *6	61	2.919
I13. Global Innovation Index *2	49	35.5
I14. Ease of Doing Business Results *7	35	73.13
I15. World Happiness Index *2	60	5.398
I16. Employment Engagement Index *4	37	22.4

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

## SLOVAKIA



Population (2017): .....5 439 892

### OWSQ 2018

Rank ..... 26

Score: ..... 33.824

Quality group: ..... **LEADER**

	Rank	Value
I01. ISO 9001 Certified Organizations *1	5	1.05076
I02. International Academy for Quality Members *1	32	0.0000000
I03. Indexed Quality Papers Published *1	23	0.08787
I04. Universities in International Research Rankings *1	41	0.0000000
I05. Education Index *2	28	0.831
I06. Healthy Life Expectancy *3	36	68.3
I07. At Birth Mortality Rate *4	33	4.9
I08. Global Competitiveness Index *2	48	4.334

	Rank	Value
I09. Gross Domestic Product *5	29	17604.95
I10. Gini Index *4	6	26.5
I11. ISO 14001 Certified Organizations *1	3	0.42593
I12. Ecological Footprint *6	85	4.196
I13. Global Innovation Index *2	32	42.9
I14. Ease of Doing Business Results *7	32	74.90
I15. World Happiness Index *2	31	6.173
I16. Employment Engagement Index *4	71	15.3

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

## SLOVENIA



Population (2017): .....2 066 748

## OWSQ 2018

Rank ..... 17

Score: .....29.197

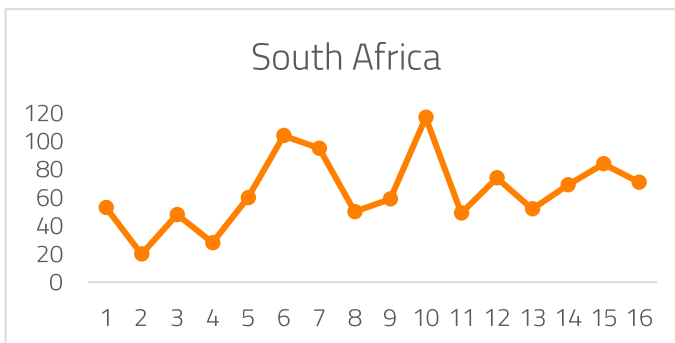
Quality group: ..... **LEADER**

	Rank	Value
I01. ISO 9001 Certified Organizations *1	7	0.89416
I02. International Academy for Quality Members *1	32	0.0000000
I03. Indexed Quality Papers Published *1	9	0.18677
I04. Universities in International Research Rankings *1	15	0.0004839
I05. Education Index *2	15	0.886
I06. Healthy Life Expectancy *3	26	70.5
I07. At Birth Mortality Rate *4	1	1.8
I08. Global Competitiveness Index *2	38	4.477

	Rank	Value
I09. Gross Domestic Product *5	24	23597.29
I10. Gini Index *4	3	25.4
I11. ISO 14001 Certified Organizations *1	16	0.22306
I12. Ecological Footprint *6	91	4.675
I13. Global Innovation Index *2	26	46.9
I14. Ease of Doing Business Results *7	31	75.42
I15. World Happiness Index *2	39	5.948
I16. Employment Engagement Index *4	85	13.2

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

## SOUTH AFRICA



Population (2017): .....56 717 156

## OWSQ 2018

Rank ..... 76

Score: .....65.342

Quality group: ..... **MODERATE**

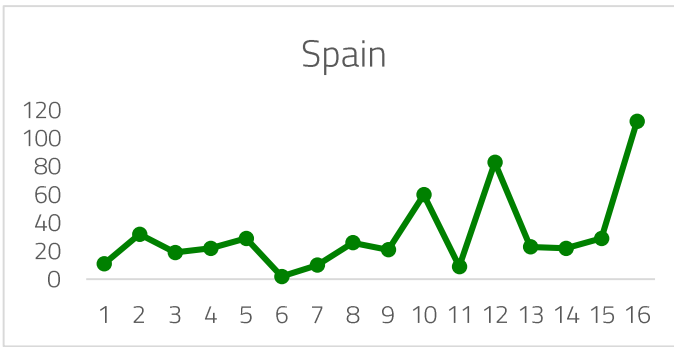
	Rank	Value
I01. ISO 9001 Certified Organizations *1	53	0.08394
I02. International Academy for Quality Members *1	20	0.0000353
I03. Indexed Quality Papers Published *1	48	0.0185
I04. Universities in International Research Rankings *1	28	0.0000882
I05. Education Index *2	60	0.708
I06. Healthy Life Expectancy *3	104	55.7
I07. At Birth Mortality Rate *4	95	34.2
I08. Global Competitiveness Index *2	50	4.321

	Rank	Value
I09. Gross Domestic Product *5	59	6160.73
I10. Gini Index *4	117	63.0
I11. ISO 14001 Certified Organizations *1	49	0.02348
I12. Ecological Footprint *6	74	3.415
I13. Global Innovation Index *2	52	35.1
I14. Ease of Doing Business Results *7	69	64.89
I15. World Happiness Index *2	84	4.724
I16. Employment Engagement Index *4	71	15.3

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



## SPAIN



Population (2017): .....46 572 028

### OWSQ 2018

Rank ..... 19

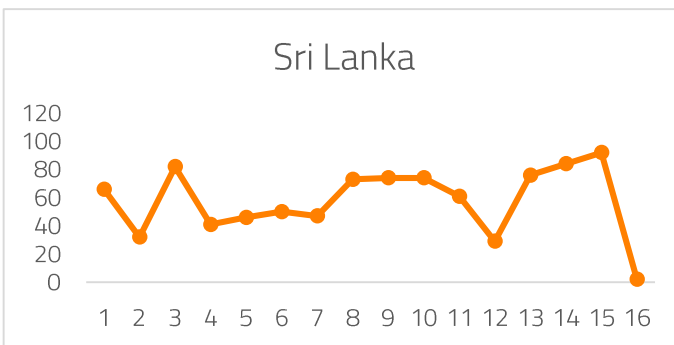
Score: ..... 31.860

Quality group: ..... **LEADER**

	Rank	Value		Rank	Value
I01. ISO 9001 Certified Organizations *1	11	0.73946	I09. Gross Domestic Product *5	21	28156.82
I02. International Academy for Quality Members *1	32	0.0000000	I10. Gini Index *4	60	36.2
I03. Indexed Quality Papers Published *1	19	0.09942	I11. ISO 14001 Certified Organizations *1	9	0.29453
I04. Universities in International Research Rankings *1	22	0.0002362	I12. Ecological Footprint *6	83	3.806
I05. Education Index *2	29	0.824	I13. Global Innovation Index *2	23	48.7
I06. Healthy Life Expectancy *3	2	73.8	I14. Ease of Doing Business Results *7	22	77.02
I07. At Birth Mortality Rate *4	10	2.7	I15. World Happiness Index *2	29	310
I08. Global Competitiveness Index *2	26	4.700	I16. Employment Engagement Index *4	112	6.3

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

## SRI LANKA



Population (2017): .....21 444 000

### OWSQ 2018

Rank ..... 63

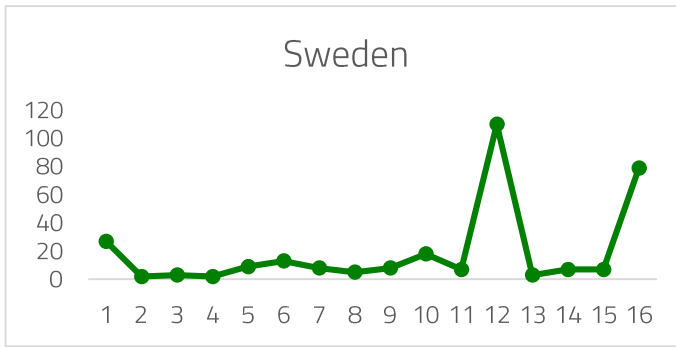
Score: ..... 58.974

Quality group: ..... **MODERATE**

	Rank	Value		Rank	Value
I01. ISO 9001 Certified Organizations *1	66	0.03619	I09. Gross Domestic Product *5	74	4065.22
I02. International Academy for Quality Members *1	32	0.0000000	I10. Gini Index *4	74	39.8
I03. Indexed Quality Papers Published *1	82	0.00256	I11. ISO 14001 Certified Organizations *1	61	0.01003
I04. Universities in International Research Rankings *1	41	0.0000000	I12. Ecological Footprint *6	29	1.532
I05. Education Index *2	46	0.749	I13. Global Innovation Index *2	776	28.7
I06. Healthy Life Expectancy *3	50	66.8	I14. Ease of Doing Business Results *7	84	58.86
I07. At Birth Mortality Rate *4	47	8.0	I15. World Happiness Index *2	92	4.471
I08. Global Competitiveness Index *2	73	4.084	I16. Employment Engagement Index *4	2	38.7

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

## SWEDEN



Population (2017): ..... 10 067 744

### OWSQ 2018

Rank ..... 2

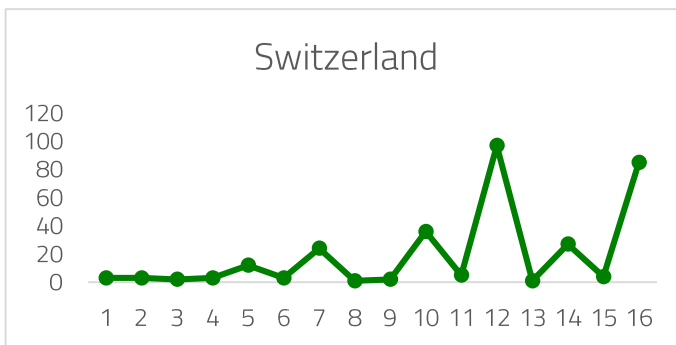
Score: ..... 19.369

Quality group: ..... **LEADER**

	Rank	Value		Rank	Value
I01. ISO 9001 Certified Organizations *1 .....	27	0.40138	I09. Gross Domestic Product *5 .....	8	53442.01
I02. International Academy for Quality Members *1 .....	2	0.0004966	I10. Gini Index *4 .....	18	29.2
I03. Indexed Quality Papers Published *1 .....	3	0.21087	I11. ISO 14001 Certified Organizations *1 .....	7	0.34248
I04. Universities in International Research Rankings *1 .....	2	0.0010926	I12. Ecological Footprint *6 .....	110	6.591
I05. Education Index *2 .....	9	0.904	I13. Global Innovation Index *2 .....	3	63.1
I06. Healthy Life Expectancy *3 .....	13	72.4	I14. Ease of Doing Business Results *7 .....	7	81.27
I07. At Birth Mortality Rate *4 .....	8	2.4	I15. World Happiness Index *2 .....	7	7.314
I08. Global Competitiveness Index *2 .....	5	5.519	I16. Employment Engagement Index *4 .....	79	14.2

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

## SWITZERLAND



Population (2017): ..... 8 466 017

### OWSQ 2018

Rank ..... 1

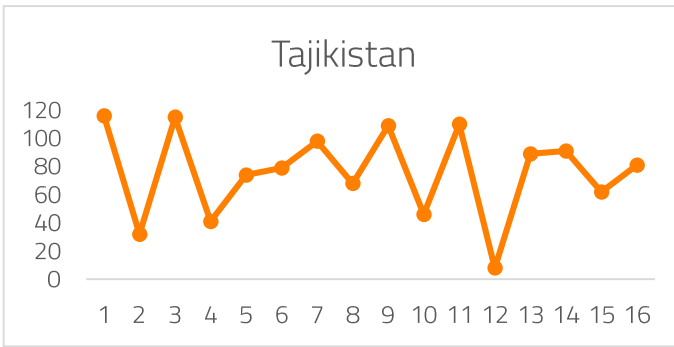
Score: ..... 19.301

Quality group: ..... **LEADER**

	Rank	Value		Rank	Value
I01. ISO 9001 Certified Organizations *1 .....	3	1.32435	I09. Gross Domestic Product *5 .....	2	80189.70
I02. International Academy for Quality Members *1 .....	3	0.0004725	I10. Gini Index *4 .....	36	32.5
I03. Indexed Quality Papers Published *1 .....	2	0.22100	I11. ISO 14001 Certified Organizations *1 .....	5	0.37042
I04. Universities in International Research Rankings *1 .....	3	0.0009450	I12. Ecological Footprint *6 .....	97	4.850
I05. Education Index *2 .....	12	0.897	I13. Global Innovation Index *2 .....	1	68.4
I06. Healthy Life Expectancy *3 .....	3	73.5	I14. Ease of Doing Business Results *7 .....	27	75.92
I07. At Birth Mortality Rate *4 .....	824	3.6	I15. World Happiness Index *2 .....	4	7.487
I08. Global Competitiveness Index *2 .....	1	5.858	I16. Employment Engagement Index *4 .....	85	13.2

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

## TAJKISTAN



Population (2017): .....8 921 343

### OWSQ 2018

Rank ..... 95

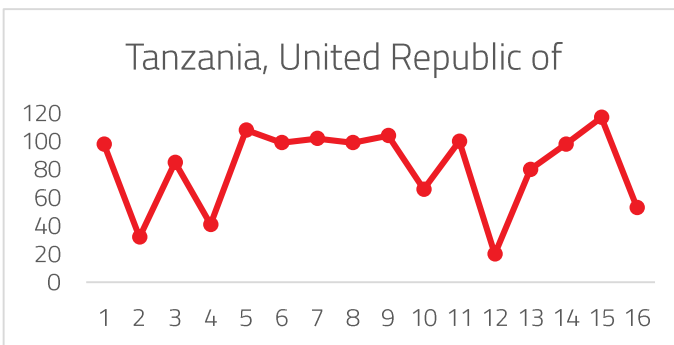
Score: ..... 76.926

Quality group: ..... **MODERATE**

	Rank	Value		Rank	Value
I01. ISO 9001 Certified Organizations *1	116	0.00045	I09. Gross Domestic Product *5	109	800.97
I02. International Academy for Quality Members *1	32	0.0000000	I10. Gini Index *4	46	34.0
I03. Indexed Quality Papers Published *1	115	0.00022	I11. ISO 14001 Certified Organizations *1	110	0.00022
I04. Universities in International Research Rankings *1	41	0.0000000	I12. Ecological Footprint *6	8	0.968
I05. Education Index *2	74	0.659	I13. Global Innovation Index *2	89	26.5
I06. Healthy Life Expectancy *3	79	63.5	I14. Ease of Doing Business Results *7	91	56.86
I07. At Birth Mortality Rate *4	98	37.1	I15. World Happiness Index *2	62	5.352
I08. Global Competitiveness Index *2	68	4.136	I16. Employment Engagement Index *4	81	13.4

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

## TANZANIA, UNITED REPUBLIC OF



Population (2017): .....57 310 019

### OWSQ 2018

Rank ..... 101

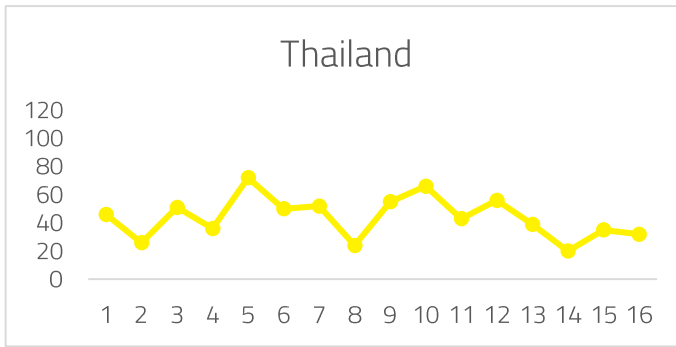
Score: ..... 82.788

Quality group: ..... **BEGINNER**

	Rank	Value		Rank	Value
I01. ISO 9001 Certified Organizations *1	98	0.00290	I09. Gross Domestic Product *5	104	936.33
I02. International Academy for Quality Members *1	32	0.0000000	I10. Gini Index *4	66	37.8
I03. Indexed Quality Papers Published *1	85	0.00241	I11. ISO 14001 Certified Organizations *1	100	0.00075
I04. Universities in International Research Rankings *1	41	0.0000000	I12. Ecological Footprint *5	20	1.253
I05. Education Index *2	108	0.441	I13. Global Innovation Index *2	80	28.1
I06. Healthy Life Expectancy *3	99	56.5	I14. Ease of Doing Business Results *7	98	54.04
I07. At Birth Mortality Rate *4	102	40.3	I15. World Happiness Index *2	117	3.303
I08. Global Competitiveness Index *2	99	3.711	I16. Employment Engagement Index *4	53	17.5

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

## THAILAND



Population (2017): .....69 037 513

### OWSQ 2018

Rank ..... 39

Score: ..... 43.682

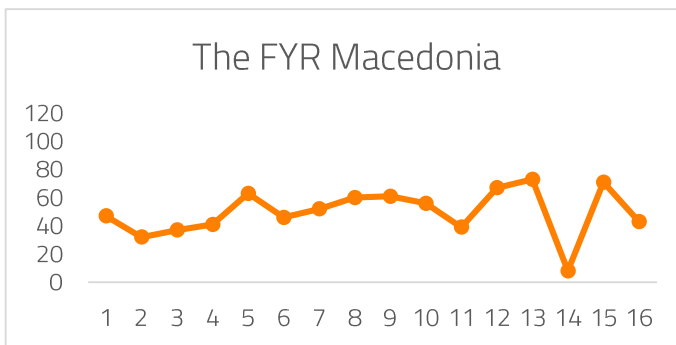
Quality group: ..... **FOLLOWER**

	Rank	Value
I01. ISO 9001 Certified Organizations *1	46	0.13992
I02. International Academy for Quality Members *1	26	0.0000145
I03. Indexed Quality Papers Published *1	51	0.01372
I04. Universities in International Research Rankings *1	36	0.0000145
I05. Education Index *2	72	0.661
I06. Healthy Life Expectancy *3	50	66.8
I07. At Birth Mortality Rate *4	52	10.5
I08. Global Competitiveness Index *2	24	4.723

	Rank	Value
I09. Gross Domestic Product *5	55	6593.82
I10. Gini Index *4	66	37.8
I11. ISO 14001 Certified Organizations *1	43	0.05009
I12. Ecological Footprint *6	56	2.492
I13. Global Innovation Index *2	39	38.0
I14. Ease of Doing Business Results *7	20	77.44
I15. World Happiness Index *2	35	6.072
I16. Employment Engagement Index *4	32	23.5

\*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 (2017): .....2 083 160

### OWSQ 2018

Rank ..... 48

Score: ..... 50.314

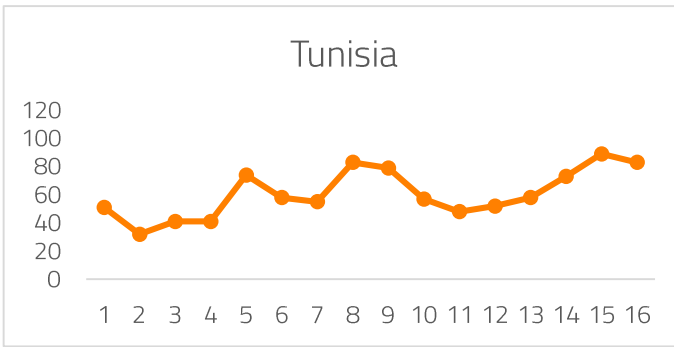
Quality group: ..... **MODERATE**

	Rank	Value
I01. ISO 9001 Certified Organizations *1	47	0.13729
I02. International Academy for Quality Members *1	32	0.0000000
I03. Indexed Quality Papers Published *1	37	0.03648
I04. Universities in International Research Rankings *1	41	0.0000000
I05. Education Index *2	63	0.691
I06. Healthy Life Expectancy *3	46	67.1
I07. At Birth Mortality Rate *4	53	10.7
I08. Global Competitiveness Index *2	60	4.227

	Rank	Value
I09. Gross Domestic Product *5	61	5442.61
I10. Gini Index *4	56	35.6
I11. ISO 14001 Certified Organizations *1	39	0.06241
I12. Ecological Footprint *6	67	3.082
I13. Global Innovation Index *2	73	29.9
I14. Ease of Doing Business Results *7	8	81.18
I15. World Happiness Index *2	71	5.185
I16. Employment Engagement Index *4	43	20.4

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

## TUNISIA



Population (2017): ..... 11 532 127

### OWSQ 2018

Rank ..... 69

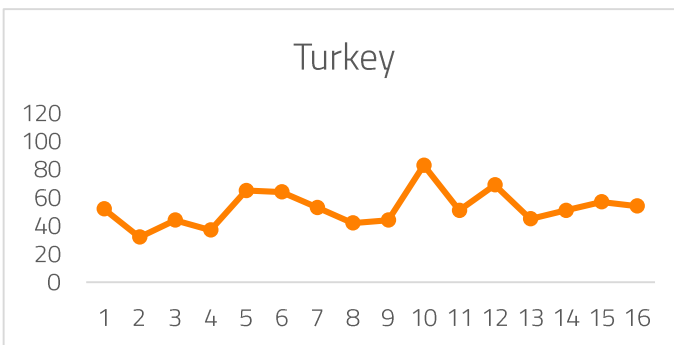
Score: ..... 61.996

Quality group: ..... **MODERATE**

Rank	Value	Rank	Value
I01. ISO 9001 Certified Organizations *1	51.....0.08871	I09. Gross Domestic Product *5	79..... 3490.83
I02. International Academy for Quality Members *1	32.0.0000000	I10. Gini Index *4	57.....35.8
I03. Indexed Quality Papers Published *1	41.....0.02836	I11. ISO 14001 Certified Organizations *1	48..... 0.02784
I04. Universities in International Research Rankings *1	41.0.0000000	I12. Ecological Footprint *6	52.....2.172
I05. Education Index *2	74.....0.659	I13. Global Innovation Index *2	58.....32.9
I06. Healthy Life Expectancy *3	58.....66.3	I14. Ease of Doing Business Results *7	73.....63.58
I07. At Birth Mortality Rate *4	55..... 11.7	I15. World Happiness Index *2	89.....4.592
I08. Global Competitiveness Index *2	83..... 3.930	I16. Employment Engagement Index *4	83.....13.3

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

## TURKEY



Population (2017): ..... 80 745 020

### OWSQ 2018

Rank ..... 53

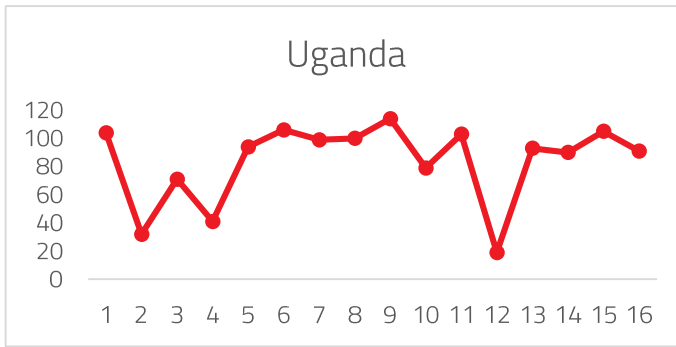
Score: ..... 52.875

Quality group: ..... **MODERATE**

Rank	Value	Rank	Value
I01. ISO 9001 Certified Organizations *1	52.....0.08532	I09. Gross Domestic Product *5	44 ....10540.62
I02. International Academy for Quality Members *1	32.0.0000000	I10. Gini Index *4	83.....41.9
I03. Indexed Quality Papers Published *1	44.....0.02159	I11. ISO 14001 Certified Organizations *1	51 ..... 0.02170
I04. Universities in International Research Rankings *1	37.0.0000124	I12. Ecological Footprint *5	69.....3.208
I05. Education Index *2	65.....0.689	I13. Global Innovation Index *2	45.....37.4
I06. Healthy Life Expectancy *3	64.....66.0	I14. Ease of Doing Business Results *7	51 .....69.14
I07. At Birth Mortality Rate *4	54..... 10.9	I15. World Happiness Index *2	57 .....5.483
I08. Global Competitiveness Index *2	42..... 4.418	I16. Employment Engagement Index *4	54.....17.4

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

## UGANDA



Population (2017): .....42 862 958

### OWSQ 2018

Rank ..... 104

Score: .....85.164

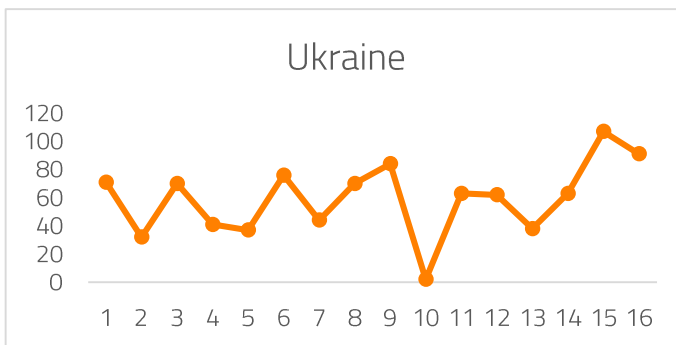
Quality group: ..... **BEGINNER**

	Rank	Value
I01. ISO 9001 Certified Organizations *1	104	0.00259
I02. International Academy for Quality Members *1	32	0.0000000
I03. Indexed Quality Papers Published *1	71	0.00448
I04. Universities in International Research Rankings *1	41	0.0000000
I05. Education Index *2	94	0.525
I06. Healthy Life Expectancy *3	106	54.9
I07. At Birth Mortality Rate *4	99	37.7
I08. Global Competitiveness Index *2	100	3.698

	Rank	Value
I09. Gross Domestic Product *5	114	604.04
I10. Gini Index *4	79	41.0
I11. ISO 14001 Certified Organizations *1	103	0.00070
I12. Ecological Footprint *6	19	1.187
I13. Global Innovation Index *2	93	25.3
I14. Ease of Doing Business Results *7	90	56.94
I15. World Happiness Index *2	105	4.161
I16. Employment Engagement Index *4	91	12.3

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

## UKRAINE



Population (2017): .....44 831 159

### OWSQ 2018

Rank ..... 66

Score: .....61.142

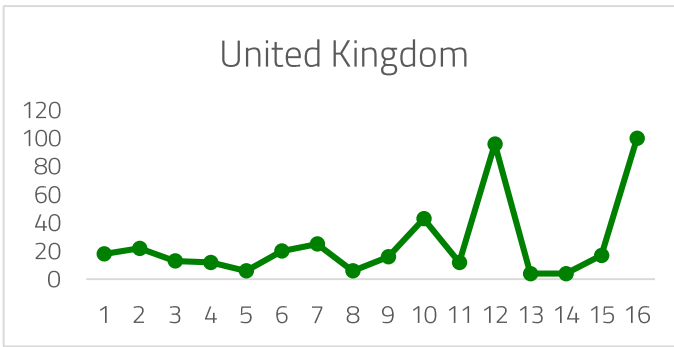
Quality group: ..... **MODERATE**

	Rank	Value
I01. ISO 9001 Certified Organizations *1	71	0.03083
I02. International Academy for Quality Members *1	32	0.0000000
I03. Indexed Quality Papers Published *1	70	0.00468
I04. Universities in International Research Rankings *1	41	0.0000000
I05. Education Index *2	37	0.794
I06. Healthy Life Expectancy *3	76	64.0
I07. At Birth Mortality Rate *4	45	7.8
I08. Global Competitiveness Index *2	70	4.107

	Rank	Value
I09. Gross Domestic Product *5	84	2639.82
I10. Gini Index *4	2	25.0
I11. ISO 14001 Certified Organizations *1	63	0.00986
I12. Ecological Footprint *5	62	2.964
I13. Global Innovation Index *2	38	38.5
I14. Ease of Doing Business Results *7	63	65.75
I15. World Happiness Index *2	107	4.103
I16. Employment Engagement Index *4	91	12.3

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

## UNITED KINGDOM



Population (2017): .....66 022 273

### OWSQ 2018

Rank ..... 10

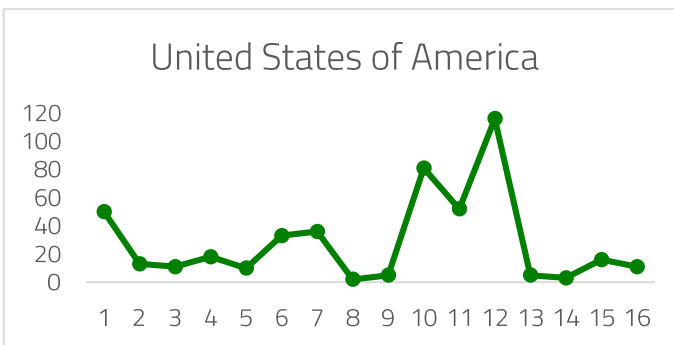
Score: .....25.784

Quality group: ..... **LEADER**

	Rank	Value		Rank	Value
I01. ISO 9001 Certified Organizations *1	18	0.57406	I09. Gross Domestic Product *5	16	39720.44
I02. International Academy for Quality Members *1	22	0.0000303	I10. Gini Index *4	43	33.2
I03. Indexed Quality Papers Published *1	13	0.16252	I11. ISO 14001 Certified Organizations *1	12	0.25387
I04. Universities in International Research Rankings *1	12	0.0005604	I12. Ecological Footprint *6	96	4.799
I05. Education Index *2	6	0.914	I13. Global Innovation Index *2	4	60.1
I06. Healthy Life Expectancy *3	20	71.9	I14. Ease of Doing Business Results *7	4	82.22
I07. At Birth Mortality Rate *4	25	3.7	I15. World Happiness Index *2	17	6.814
I08. Global Competitiveness Index *2	6	5.507	I16. Employment Engagement Index *4	100	11.2

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

## UNITED STATES OF AMERICA



Population (2017): ..... 325 719 178

### OWSQ 2018

Rank ..... 15

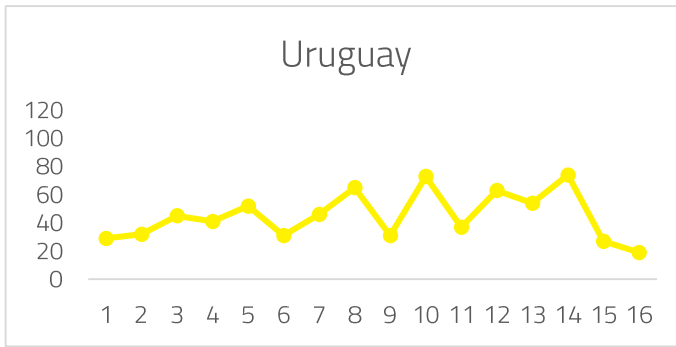
Score: .....28.219

Quality group: ..... **LEADER**

	Rank	Value		Rank	Value
I01. ISO 9001 Certified Organizations *1	50	0.09356	I09. Gross Domestic Product *5	5	59531.66
I02. International Academy for Quality Members *1	13	0.0000952	I10. Gini Index *4	81	41.5
I03. Indexed Quality Papers Published *1	11	0.16493	I11. ISO 14001 Certified Organizations *1	52	0.01714
I04. Universities in International Research Rankings *1	18	0.0004145	I12. Ecological Footprint *6	116	8.366
I05. Education Index *2	10	0.903	I13. Global Innovation Index *2	5	59.8
I06. Healthy Life Expectancy *3	33	68.5	I14. Ease of Doing Business Results *7	3	82.54
I07. At Birth Mortality Rate *4	36	5.6	I15. World Happiness Index *2	16	6.886
I08. Global Competitiveness Index *2	2	5.853	I16. Employment Engagement Index *4	11	33.0

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

## URUGUAY



Population (2017): .....3 456 750

### OWSQ 2018

Rank ..... 42

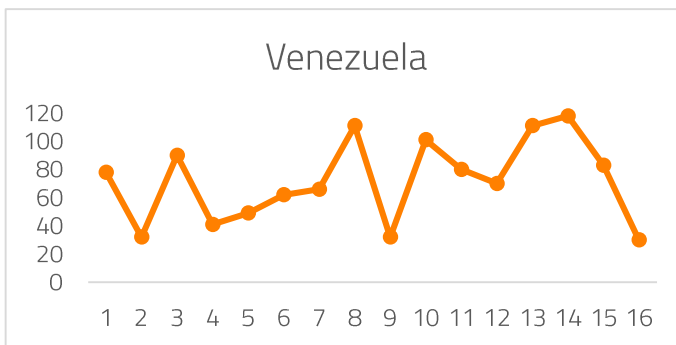
Score: ..... 44.824

Quality group: ..... **FOLLOWER**

Rank	Value	Rank	Value
I01. ISO 9001 Certified Organizations *1	29.....0.38707	I09. Gross Domestic Product *5	31....16245.60
I02. International Academy for Quality Members *1	32.0.0000000	I10. Gini Index *4	73.....39.7
I03. Indexed Quality Papers Published *1	45.....0.02083	I11. ISO 14001 Certified Organizations *1	37.....0.07001
I04. Universities in International Research Rankings *1	41.0.0000000	I12. Ecological Footprint *6	63.....2.981
I05. Education Index *2	52.....0.733	I13. Global Innovation Index *2	54.....34.2
I06. Healthy Life Expectancy *3	31.....68.8	I14. Ease of Doing Business Results *7	74.....61.99
I07. At Birth Mortality Rate *4	46.....7.9	I15. World Happiness Index *2	27.....6.379
I08. Global Competitiveness Index *2	65.....4.146	I16. Employment Engagement Index *4	19.....30.4

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

## VENEZUELA



Population (2017): .....31 977 065

### OWSQ 2018

Rank ..... 86

Score: ..... 73.141

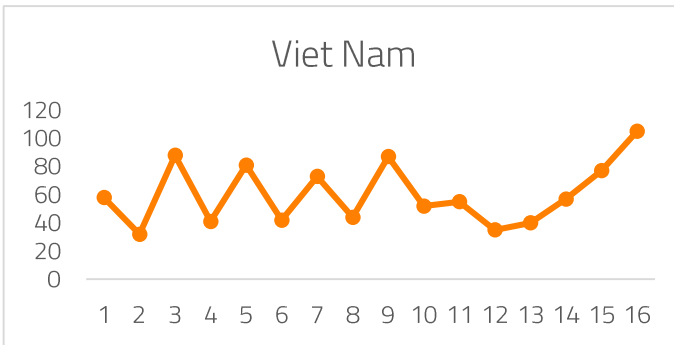
Quality group: ..... **MODERATE**

Rank	Value	Rank	Value
I01. ISO 9001 Certified Organizations *1	78.....0.01992	I09. Gross Domestic Product *5	32....15692.41
I02. International Academy for Quality Members *1	32.0.0000000	I10. Gini Index *4	101.....46.9
I03. Indexed Quality Papers Published *1	90.....0.00203	I11. ISO 14001 Certified Organizations *1	80.....0.00435
I04. Universities in International Research Rankings *1	41.0.0000000	I12. Ecological Footprint *6	70.....3.288
I05. Education Index *2	49.....0.741	I13. Global Innovation Index *2	111.....22.3
I06. Healthy Life Expectancy *3	62.....66.1	I14. Ease of Doing Business Results *7	118.....30.87
I07. At Birth Mortality Rate *4	67.....14.0	I15. World Happiness Index *2	83.....4.806
I08. Global Competitiveness Index *2	111.....3.228	I16. Employment Engagement Index *4	30.....25.4

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



## VIET NAM



Population (2017): .....95 540 800

### OWSQ 2018

Rank ..... 67

Score: ..... 61.217

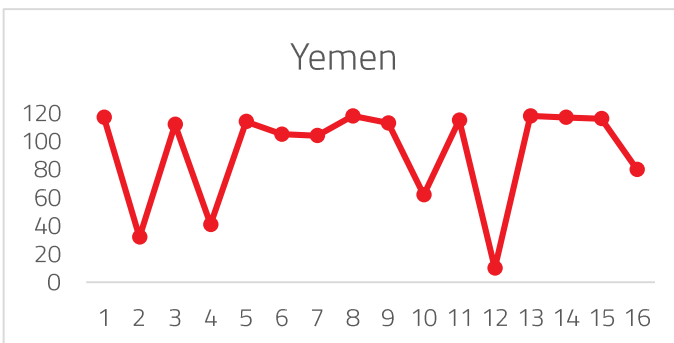
Quality group: ..... **MODERATE**

	Rank	Value
I01. ISO 9001 Certified Organizations *1	58	0.05401
I02. International Academy for Quality Members *1	32	0.0000000
I03. Indexed Quality Papers Published *1	88	0.00221
I04. Universities in International Research Rankings *1	41	0.0000000
I05. Education Index *2	81	0.626
I06. Healthy Life Expectancy *3	42	67.5
I07. At Birth Mortality Rate *4	74	17.3
I08. Global Competitiveness Index *2	44	4.356

	Rank	Value
I09. Gross Domestic Product *5	87	2343.12
I10. Gini Index *4	52	34.8
I11. ISO 14001 Certified Organizations *1	55	0.01435
I12. Ecological Footprint *6	35	1.734
I13. Global Innovation Index *2	40	37.9
I14. Ease of Doing Business Results *7	57	67.93
I15. World Happiness Index *2	77	5.103
I16. Employment Engagement Index *4	105	9.3

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

## YEMEN



Population (2017): .....28 250 420

### OWSQ 2018

Rank ..... 118

Score: ..... 93.898

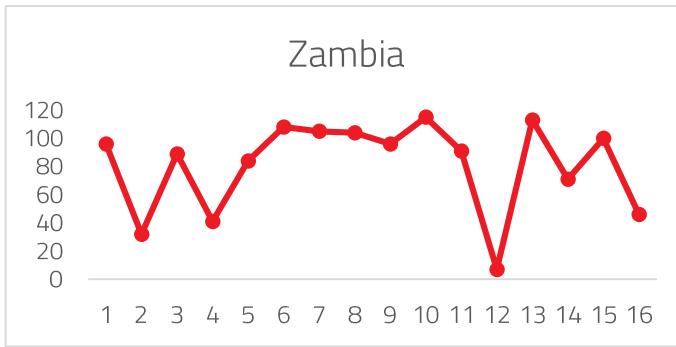
Quality group: ..... **BEGINNER**

	Rank	Value
I01. ISO 9001 Certified Organizations *1	117	0.00035
I02. International Academy for Quality Members *1	32	0.0000000
I03. Indexed Quality Papers Published *1	112	0.00046
I04. Universities in International Research Rankings *1	41	0.0000000
I05. Education Index *2	114	0.349
I06. Healthy Life Expectancy *3	105	55.1
I07. At Birth Mortality Rate *4	105	43.2
I08. Global Competitiveness Index *2	118	2.875

	Rank	Value
I09. Gross Domestic Product *5	113	660.28
I10. Gini Index *4	62	36.7
I11. ISO 14001 Certified Organizations *1	115	0.00007
I12. Ecological Footprint *6	10	1.008
I13. Global Innovation Index *2	118	15.0
I14. Ease of Doing Business Results *7	117	33.0
I15. World Happiness Index *2	116	3.355
I16. Employment Engagement Index *4	80	14.0

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

## ZAMBIA



Population (2017): ..... 17 094 130

### OWSQ 2018

Rank ..... 100

Score: ..... 82.197

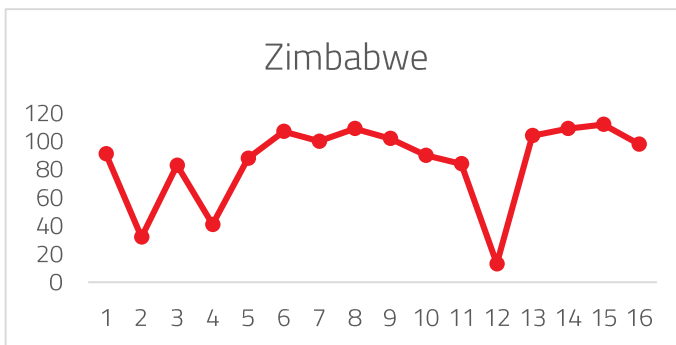
Quality group: ..... **BEGINNER**

	Rank	Value
I01. ISO 9001 Certified Organizations *1	96	0.00316
I02. International Academy for Quality Members *1	32	0.0000000
I03. Indexed Quality Papers Published *1	89	0.00211
I04. Universities in International Research Rankings *1	41	0.0000000
I05. Education Index *2	84	0.580
I06. Healthy Life Expectancy *3	108	54.3
I07. At Birth Mortality Rate *4	106	43.8
I08. Global Competitiveness Index *2	104	3.518

	Rank	Value
I09. Gross Domestic Product *5	96	1509.80
I10. Gini Index *4	115	57.1
I11. ISO 14001 Certified Organizations *1	91	0.00187
I12. Ecological Footprint *6	7	0.954
I13. Global Innovation Index *2	113	20.7
I14. Ease of Doing Business Results *7	71	64.50
I15. World Happiness Index *2	100	4.377
I16. Employment Engagement Index *4	46	19.5

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

## ZIMBABWE



Population (2017): ..... 16 529 904

### OWSQ 2018

Rank ..... 108

Score: ..... 86.863

Quality group: ..... **BEGINNER**

	Rank	Value
I01. ISO 9001 Certified Organizations *1	91	0.00847
I02. International Academy for Quality Members *1	32	0.0000000
I03. Indexed Quality Papers Published *1	83	0.00254
I04. Universities in International Research Rankings *1	41	0.0000000
I05. Education Index *2	88	0.558
I06. Healthy Life Expectancy *3	107	54.4
I07. At Birth Mortality Rate *4	101	40.0
I08. Global Competitiveness Index *2	109	3.320

	Rank	Value
I09. Gross Domestic Product *5	102	1079.61
I10. Gini Index *4	90	43.2
I11. ISO 14001 Certified Organizations *1	84	0.00309
I12. Ecological Footprint *5	13	1.088
I13. Global Innovation Index *2	104	23.1
I14. Ease of Doing Business Results *7	109	48.47
I15. World Happiness Index *2	112	3.692
I16. Employment Engagement Index *4	98	11.4

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

## CONCLUSION

This report shows the characterization of the macroquality level of 118 countries, in a worldwide basis taking into account a model composed by 10 dimensions and 16 quality related indicators.

For each country, an overall World State of Quality score was computed based on the ranking position of each indicator for each country. The overall WSQ score is the result of a weighted average allowing to group the countries in 4 different categories: Leader; Follower; Moderate; Beginner.

The 2018 results analysis highlight that there is no single strategy to deal with quality issues, however some groups of countries with similar geographical context are easily identified. Further, no single country under or outperforms across all the indicators.

The World State of Quality analysis is important to better understand the state of Quality in each country of the world as well to define strategies of Quality improvement. The evolution of each country over the years can help countries' governments, as well as different institutions or organizations to define worldwide quality policies.



## ANNEXES



## ANNEX 1: DATA SOURCES AND INDICATOR DETAILS

The data used in this report is the most current available information on June 30<sup>th</sup> of 2018, 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) in a per 1,000 inhabitants' basis	2016	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.
		<i>Source:</i> International Organization for Standardization (ISO), <a href="http://www.iso.org/iso/iso-survey">http://www.iso.org/iso/iso-survey</a>		
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) in a per 1,000 inhabitants' basis	2018	This indicator highlights the number of recognized quality professionals, at the level of the International Academy for Quality, a well-known worldwide leading organization.
		<i>Source:</i> International Academy for Quality (IAQ), <a href="https://iaquality.org/membership">https://iaquality.org/membership</a>		
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) in a per 1,000 inhabitants' basis	2018	This indicator mirrors the research on quality field in each country in the last 10 years 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.
		<i>Source:</i> Scopus, <a href="https://www.scopus.com/search/form.uri">https://www.scopus.com/search/form.uri</a> ; Web of Knowledge (ISI), <a href="http://apps.webofknowledge.com/">http://apps.webofknowledge.com/</a>		
Research	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) in a per 1,000 inhabitants' basis	2017	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.
		<i>Source:</i> Shanghai Ranking, <a href="http://www.shanghairanking.com/">http://www.shanghairanking.com/</a>		

INDICATOR		DEFINITION	YEAR	INTERPRETATION
Education	Education Index	The knowledge dimension of the human development index	2017	This indicator is composed by two indicators: expected years of schooling and mean years of schooling resulting in the education index.
		<i>Source</i> United Nations Development Programme (UNPD) - Human Development Reports (HDR), <a href="http://hdr.undp.org/">http://hdr.undp.org/</a>		
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	2016	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.
	<i>Source</i> World Health Organization (WHO), <a href="http://apps.who.int/gho/data/node.main.HALE">http://apps.who.int/gho/data/node.main.HALE</a>			
	Birth Mortality Rates	The number of deaths of infants (under one year of age) per 1,000 live births	2016	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.
		<i>Source</i> World Bank, <a href="http://data.worldbank.org/indicator/SP.DYN.IMRT.IN">http://data.worldbank.org/indicator/SP.DYN.IMRT.IN</a>		
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	2017-2018 *	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.
	<i>Source</i> World Economic Forum (WEF), <a href="http://reports.weforum.org/global-competitiveness-index/downloads/">http://reports.weforum.org/global-competitiveness-index/downloads/</a>			
	Gross Domestic Product	A macroeconomic indicator that measures the expenditure on final goods and services provided by all resident producers	2017 *	This indicator reflects the economic performance of a country, in terms of wealth produced per capita.
		<i>Source</i> World Bank, <a href="http://data.worldbank.org/indicator/NY.GDP.MKTP.CD">http://data.worldbank.org/indicator/NY.GDP.MKTP.CD</a>		
Social Cohesion	Gini Index	The degrees of inequality and dispersion of the distribution of income across families and individuals	2016 *	This indicator measures the income distribution and inequalities across people and families at any given country.
		<i>Source</i> World Bank, <a href="http://data.worldbank.org/indicator/SI.POV.GINI">http://data.worldbank.org/indicator/SI.POV.GINI</a>		



INDICATOR		DEFINITION	YEAR	INTERPRETATION
Sustainability	Number of ISO 14001 Certified Organizations	Number of valid ISO 14001 certificates divided by each country's total population (all residents) in a per 1,000 inhabitants' basis	2016	This indicator reflects how many companies are committed with environmental standards, specifically ISO 14001, which is an international reference for certification of environmental management systems that reflects the environmental performance of a company, the achievement of environmental objectives and environmental obligations.
	<i>Source:</i> International Organization for Standardization (ISO), <a href="http://www.iso.org/iso/iso-survey">http://www.iso.org/iso/iso-survey</a>			
Sustainability	Ecological Footprint	The demand on nature regarding how much area of resources are being used	2014 *	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.
	<i>Source:</i> Footprint Network, <a href="http://www.footprintnetwork.org/">http://www.footprintnetwork.org/</a>			
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	2018 *	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.
	<i>Source:</i> Global Innovation Index (GII), <a href="https://www.globalinnovationindex.org/about-gii#reports">https://www.globalinnovationindex.org/about-gii#reports</a>			
Innovation	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	2018	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.
	<i>Source:</i> World Bank, <a href="http://www.doingbusiness.org/reports/global-reports/doing-business-2018">http://www.doingbusiness.org/reports/global-reports/doing-business-2018</a>			

INDICATOR		DEFINITION	YEAR	INTERPRETATION
Satisfaction	World Happiness Index	The measure of happiness and well-being by social progress and the goal of public policy	2018	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.
	<i>Source:</i> World Happiness Report, <a href="http://worldhappiness.report/">http://worldhappiness.report/</a>			
Satisfaction	Employee Engagement Index	The level of engagement of an employee in their jobs or day-to-day work within an organization as a proxy for satisfaction	2016	The employee engagement is related with performance and innovation in terms of attitude and behavior, and it is associated to motivation, enthusiasm and personal productivity levels of employees that results from the involvement, commitment, energy and desire to do a good job.
	<i>Source:</i> Gallup, <a href="https://www.gallup.com/workplace/229424/employee-engagement.aspx">https://www.gallup.com/workplace/229424/employee-engagement.aspx</a>			
World Population		A country's total population (all residents)	2017	The population associated with each country, according to the World Bank statistics.
<i>Source:</i> World Bank, <a href="http://data.worldbank.org/indicator/SP.POP.TOTL">http://data.worldbank.org/indicator/SP.POP.TOTL</a>				

\* The values used for some countries were the latest available for them as of June 30<sup>th</sup> of 2018, 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	ISA	Number of ISO 14001 Certified Organizations	per 1,000 inhabitants
	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	EEL	Employee Engagement Index	percentage

## 2.2 SCALED DATA

COUNTRY	I01	I02	I03	I04	I05	I06	I07	I08	I09	I10	I11	I12	I13	I14	I15	I16
Albania	0.10962	0.0000000	0.00487	0.0000000	0.745	68.1	12.0	4.185	4537.86	29.0	0.03863	2.142	30.0	68.70	4.586	22.5
Algeria	0.01314	0.0000000	0.00871	0.0000000	0.664	65.5	21.6	4.066	4123.39	27.6	0.00244	2.449	23.9	46.71	5.295	8.0
Angola	0.00302	0.0000000	0.00013	0.0000000	0.498	55.8	54.6	3.038	4170.31	42.7	0.00050	1.559	26.2	41.49	3.795	31.0
Argentina	0.15945	0.0001129	0.00838	0.0000226	0.816	68.4	9.9	3.951	14401.97	42.4	0.03657	3.690	30.7	58.11	6.388	24.4
Armenia	0.00955	0.0000000	0.00239	0.0000000	0.749	66.3	11.9	4.191	3936.80	32.5	0.00239	2.019	32.8	72.51	4.321	25.5
Australia	0.51892	0.0001626	0.20944	0.0011383	0.929	73.0	3.1	5.192	53799.94	34.7	0.17265	6.886	52.0	80.14	7.272	14.3
Austria	0.44522	0.0001135	0.15745	0.0004541	0.852	72.4	2.9	5.247	47290.91	30.5	0.13509	5.876	51.3	78.54	7.139	12.2
Azerbaijan	0.02231	0.0000000	0.00041	0.0000000	0.709	64.9	27.2	4.690	4131.62	16.6	0.00689	2.170	30.2	70.19	5.201	7.2
Bangladesh	0.00285	0.0000000	0.00101	0.0000000	0.508	63.3	28.2	3.906	1516.51	32.4	0.00072	0.795	23.1	40.99	4.500	31.7
Belgium	0.31955	0.0001759	0.15397	0.0006155	0.893	71.6	3.1	5.225	43323.81	27.7	0.10262	6.706	50.5	71.69	6.927	10.2
Benin	0.00358	0.0000000	0.00098	0.0000000	0.471	53.5	63.1	3.472	829.80	47.8	0.00009	1.356	20.6	50.47	4.141	12.4
Bhutan	0.01114	0.0000000	0.00248	0.0000000	0.445	60.7	26.8	4.100	3110.23	38.8	0.00743	4.635	27.9	66.27	5.082	3.3
Bolivia	0.02190	0.0000000	0.00136	0.0000000	0.687	63.0	29.5	3.537	3393.96	44.6	0.00471	3.074	22.9	50.18	5.752	28.5
Bosnia and Herzegovina	0.29569	0.0000000	0.02253	0.0000000	0.718	67.2	5.2	3.869	5180.64	32.7	0.05703	3.290	31.1	64.20	5.129	13.4
Botswana	0.00916	0.0000000	0.01353	0.0000000	0.659	57.5	32.6	4.304	7595.60	64.7	0.00698	2.537	28.2	64.94	3.590	16.4
Brazil	0.09990	0.0000096	0.01570	0.0000287	0.686	66.0	13.5	4.135	9821.41	51.3	0.01470	3.078	33.4	56.45	6.419	29.5
Bulgaria	0.84101	0.0000000	0.01880	0.0000000	0.805	66.4	6.5	4.463	8031.60	37.4	0.25777	3.170	42.6	71.91	4.933	18.3
Burkina Faso	0.00261	0.0000000	0.00089	0.0000000	0.286	52.9	52.7	3.205	670.71	35.3	0.00010	1.312	18.9	51.54	4.424	8.3
Burundi	0.00000	0.0000000	0.00018	0.0000000	0.424	52.6	48.4	3.215	320.09	38.6	0.00000	0.605	21.3	46.92	2.905	35.0
Cambodia	0.00281	0.0000000	0.00100	0.0000000	0.487	60.8	26.3	3.932	1384.42	30.8	0.00137	1.318	26.7	54.47	4.433	21.5
Cameroon	0.00262	0.0000000	0.00096	0.0000000	0.547	51.1	52.8	3.651	1446.70	46.6	0.00075	1.274	23.8	47.23	4.975	12.4
Canada	0.18391	0.0000817	0.19639	0.0005176	0.899	73.2	4.3	5.349	45032.12	34.0	0.03533	8.050	53.0	79.29	7.328	20.3
Chile	0.27655	0.0000554	0.01512	0.0001108	0.800	69.7	7.2	4.709	15346.45	47.7	0.06868	4.026	37.8	71.22	6.476	30.4
China	0.25291	0.0000065	0.00945	0.0000325	0.644	68.7	8.5	5.002	8826.99	42.2	0.09898	3.710	53.1	65.29	5.246	6.1
Colombia	0.24320	0.0000000	0.00931	0.0000000	0.676	67.1	13.1	4.288	6301.59	50.8	0.06100	1.913	33.8	69.41	6.260	36.5
Costa Rica	0.06136	0.0000000	0.00999	0.0000000	0.719	70.9	7.7	4.497	11630.67	48.7	0.02303	2.511	35.7	69.13	7.072	32.4
Côte d'Ivoire	0.00716	0.0000000	0.00000	0.0000000	0.424	48.3	66.0	3.864	1662.44	41.5	0.00103	1.304	20.0	53.71	4.671	15.4
Croatia	0.64450	0.0000000	0.11974	0.0000000	0.791	69.0	4.0	4.191	13294.51	30.8	0.23850	3.632	40.7	71.70	5.321	13.3
Cyprus	0.23314	0.0000000	0.08732	0.0000000	0.808	73.3	2.1	4.299	25233.57	34.0	0.05765	3.322	47.8	71.63	5.762	16.3

COUNTRY	I01	I02	I03	I04	I05	I06	I07	I08	I09	I10	I11	I12	I13	I14	I15	I16
Czech Republic	0.99780	0.0000000	0.07232	0.0000944	0.893	69.3	2.5	4.774	20368.14	25.9	0.39495	5.600	48.7	76.27	6.711	14.3
Denmark	0.43296	0.0000000	0.19637	0.0008666	0.920	71.8	3.7	5.391	56307.51	28.2	0.18632	7.127	58.4	84.06	7.555	16.2
Dominican Republic	0.01978	0.0000000	0.00102	0.0000000	0.643	65.2	25.5	3.865	7052.26	45.3	0.00251	1.589	29.3	60.93	5.302	33.5
Ecuador	0.07417	0.0000000	0.00614	0.0000000	0.697	67.9	17.8	3.914	6198.95	45.0	0.01468	2.043	26.8	57.83	5.973	30.5
Egypt	0.02754	0.0000000	0.00583	0.0000103	0.604	61.1	19.4	3.903	2412.73	31.8	0.01007	1.984	27.2	56.22	4.419	12.3
El Salvador	0.03622	0.0000000	0.00078	0.0000000	0.580	65.5	12.9	3.768	3889.31	40.0	0.00768	1.998	25.1	66.42	6.167	34.5
Estonia	0.73965	0.0000000	0.09578	0.0007602	0.869	68.2	2.3	4.850	19704.66	32.7	0.36185	6.965	50.5	80.80	5.739	20.3
Ethiopia	0.00094	0.0000000	0.00146	0.0000000	0.327	57.5	41.0	3.782	767.56	39.1	0.00007	1.089	24.2	47.77	4.350	8.4
Finland	0.47031	0.0009072	0.16439	0.0009072	0.905	71.7	1.9	5.489	45703.33	27.1	0.25729	6.094	59.6	80.37	7.632	12.2
France	0.34868	0.0000149	0.06001	0.0002980	0.840	73.4	3.2	5.180	38476.66	32.7	0.09975	4.698	54.4	76.13	6.489	6.2
Georgia	0.04035	0.0000000	0.01022	0.0000000	0.845	64.9	9.5	4.279	4078.25	36.5	0.00350	1.897	35.0	82.04	4.340	26.5
Germany	0.80093	0.0000726	0.10363	0.0004474	0.940	71.6	3.2	5.655	44469.91	31.7	0.11420	5.047	58.0	79.00	6.965	15.2
Ghana	0.00215	0.0000000	0.00524	0.0000000	0.558	56.4	41.2	3.723	1641.49	42.4	0.00108	1.955	24.5	57.24	4.657	19.5
Greece	0.67869	0.0000929	0.09386	0.0002788	0.838	72.0	3.1	4.022	18613.42	36.0	0.12304	4.294	38.9	68.02	5.358	11.3
Guatemala	0.01431	0.0000000	0.00118	0.0000000	0.514	64.2	23.9	4.085	4470.99	48.3	0.00219	1.840	25.5	61.18	6.382	30.5
Guinea	0.00047	0.0000000	0.00086	0.0000000	0.339	52.2	58.3	3.475	824.98	33.7	0.00024	1.462	20.7	49.80	3.964	28.6
Honduras	0.01986	0.0000000	0.00097	0.0000000	0.502	66.8	16.0	3.917	2480.13	50.0	0.00324	1.661	24.9	58.46	5.504	32.6
Hungary	0.67058	0.0003067	0.04345	0.0000000	0.815	66.8	4.4	4.327	14224.85	30.4	0.22830	3.604	44.9	72.39	5.620	10.3
India	0.02767	0.0000045	0.00577	0.0000007	0.556	59.3	34.6	4.587	1939.61	35.1	0.00577	1.120	35.2	60.76	4.190	13.2
Indonesia	0.02846	0.0000000	0.00266	0.0000000	0.622	61.7	22.2	4.682	3846.86	39.5	0.00758	1.608	29.8	66.47	5.093	15.4
Iran, Islamic Republic of	0.03195	0.0000123	0.03950	0.0000246	0.741	65.4	13.0	4.270	5415.21	38.8	0.00946	3.004	33.4	56.48	4.707	9.3
Ireland	0.49713	0.0000000	0.22395	0.0006232	0.918	72.1	3.0	5.158	69330.69	31.9	0.19320	4.707	57.2	79.51	6.977	13.2
Israel	1.16168	0.0001148	0.06829	0.0006887	0.874	72.9	2.9	5.312	40270.25	41.4	0.10663	4.680	56.8	71.42	7.190	16.3
Italy	2.47960	0.0000330	0.06489	0.0002642	0.791	73.2	2.8	4.542	31952.98	34.7	0.44020	4.292	46.3	72.70	6.000	5.2
Jamaica	0.00969	0.0000000	0.00623	0.0000000	0.690	66.9	13.2	4.247	5109.55	45.5	0.00484	1.773	30.4	67.27	5.890	36.0
Japan	0.38986	0.0000868	0.01996	0.0001341	0.848	74.8	2.0	5.495	38428.10	32.1	0.21589	4.744	55.0	75.68	5.915	6.2
Jordan	0.04422	0.0000000	0.02546	0.0000000	0.711	66.4	15.1	4.297	4129.75	33.7	0.00763	2.136	30.8	60.58	5.161	17.4
Kazakhstan	0.02955	0.0000554	0.00432	0.0000000	0.814	63.4	10.1	4.350	8837.46	26.9	0.00821	5.813	31.4	75.44	5.790	29.4
Kenya	0.01358	0.0000000	0.00437	0.0000000	0.551	58.9	35.6	3.977	1507.81	48.5	0.00115	1.039	31.1	65.15	4.410	18.4
Korea, Republic of (South)	0.22108	0.0000194	0.05814	0.0002332	0.862	73.0	2.9	5.072	29742.84	31.6	0.09733	5.853	56.6	83.92	5.875	10.0

COUNTRY	I01	I02	I03	I04	I05	I06	I07	I08	I09	I10	I11	I12	I13	I14	I15	I16
Kyrgyzstan	0.00065	0.0000000	0.00048	0.0000000	0.735	63.5	18.8	3.896	1219.82	26.8	0.00000	1.753	27.6	65.70	5.131	32.5
Latvia	0.44622	0.0000000	0.06492	0.0000000	0.866	66.2	3.9	4.398	15594.29	34.2	0.15922	5.626	43.2	79.26	5.933	14.3
Lebanon	0.07925	0.0000000	0.03485	0.0000000	0.637	66.1	6.9	3.845	8523.75	31.8	0.00493	3.354	28.2	54.67	5.199	17.3
Lesotho	0.00179	0.0000000	0.00224	0.0000000	0.502	46.6	72.4	3.195	1181.81	54.2	0.00090	1.462	27.0	60.42	3.808	35.0
Lithuania	0.40669	0.0000000	0.08664	0.0000000	0.879	66.1	4.3	4.584	16680.68	37.4	0.23623	5.797	41.2	79.87	5.952	11.2
Luxembourg	0.34865	0.0000000	0.20686	0.0000000	0.792	72.6	2.0	5.232	104103.04	31.2	0.14513	12.285	54.5	69.01	6.910	8.2
Madagascar	0.00391	0.0000000	0.00035	0.0000000	0.498	58.3	34.0	3.405	449.72	42.6	0.00047	0.977	24.8	47.67	3.774	18.5
Malawi	0.00134	0.0000000	0.00435	0.0000000	0.451	56.2	38.9	3.114	338.48	45.5	0.00038	0.824	23.1	58.94	3.587	16.5
Malaysia	0.32823	0.0000000	0.08373	0.0000632	0.719	66.6	7.1	5.174	9944.90	46.3	0.07352	4.423	43.0	78.43	6.322	17.3
Mali	0.00049	0.0000000	0.00081	0.0000000	0.293	50.7	68.0	3.330	824.52	33.0	0.00022	1.538	23.3	52.92	4.447	20.6
Malta	4.00609	0.0000000	0.09242	0.0000000	0.818	72.2	5.9	4.648	26945.98	29.0	1.38623	4.889	50.3	64.72	6.627	16.3
Mauritius	0.18741	0.0000000	0.00712	0.0000000	0.729	65.8	12.2	4.523	10547.22	35.8	0.01344	3.495	31.3	77.54	5.891	18.4
Mexico	0.05440	0.0000000	0.00681	0.0000077	0.678	67.7	12.6	4.435	8902.83	43.4	0.01207	2.549	35.3	72.27	6.488	23.4
Moldova, Republic of	0.03268	0.0000000	0.00310	0.0000000	0.710	63.6	13.7	3.992	2289.88	26.3	0.00423	1.927	37.6	73.00	5.640	15.3
Mongolia	0.00585	0.0000000	0.00358	0.0000000	0.766	61.9	15.4	3.899	3735.16	32.3	0.00130	9.500	35.9	69.03	5.125	34.5
Montenegro	0.14780	0.0000000	0.03052	0.0000000	0.790	68.1	3.5	4.145	7669.57	31.9	0.03856	3.417	36.5	73.18	5.347	18.3
Morocco	0.04264	0.0000000	0.00543	0.0000000	0.529	65.3	23.3	4.244	3007.24	40.7	0.00509	1.750	31.1	67.91	5.254	20.5
Mozambique	0.00219	0.0000000	0.00165	0.0000000	0.385	52.2	53.1	2.886	415.72	54.0	0.00084	0.870	23.1	54.00	4.417	28.0
Namibia	0.01776	0.0000000	0.00395	0.0000000	0.571	55.9	32.3	3.991	5227.18	61.0	0.00987	2.087	28.0	59.94	4.441	23.0
Nepal	0.00256	0.0000000	0.00177	0.0000000	0.502	61.3	28.4	4.018	835.08	32.8	0.00065	1.026	24.2	59.95	4.880	20.6
Netherlands	0.60270	0.0001751	0.20073	0.0007004	0.906	72.1	3.2	5.662	48223.16	29.3	0.15625	5.923	63.3	76.03	7.441	12.2
Nicaragua	0.00852	0.0000000	0.00097	0.0000000	0.558	66.9	16.8	3.950	2221.81	46.2	0.00257	1.475	23.1	55.39	6.141	14.4
Nigeria	0.00126	0.0000000	0.00163	0.0000000	0.483	48.9	66.9	3.300	1968.56	43.0	0.00041	1.115	22.4	52.03	5.155	17.4
Norway	0.37901	0.0001893	0.18534	0.0005679	0.915	73.0	2.1	5.404	75504.57	27.5	0.15240	6.033	52.6	82.16	7.594	17.2
Pakistan	0.01097	0.0000000	0.00332	0.0000000	0.411	57.7	64.2	3.669	1547.85	30.7	0.00174	0.789	24.1	51.65	5.472	5.2
Panama	0.04319	0.0000000	0.00293	0.0000000	0.692	69.4	14.1	4.437	15087.68	50.4	0.00756	2.325	32.4	65.27	6.430	39.4
Paraguay	0.05256	0.0000000	0.00117	0.0000000	0.631	65.3	17.0	3.711	4365.53	47.9	0.00440	3.676	28.7	59.18	5.681	12.3
Peru	0.04104	0.0000000	0.00280	0.0000000	0.689	67.5	11.9	4.223	6571.93	43.8	0.01328	2.294	31.8	69.45	5.663	22.4
Philippines	0.03551	0.0000095	0.00189	0.0000000	0.661	61.7	21.5	4.351	2988.95	40.1	0.01019	1.104	31.6	58.74	5.524	36.5
Poland	0.31999	0.0000000	0.03281	0.0000527	0.866	68.5	4.0	4.594	13811.66	31.8	0.08384	4.443	41.7	77.30	6.123	14.3

COUNTRY	I01	I02	I03	I04	I05	I06	I07	I08	I09	I10	I11	I12	I13	I14	I15	I16
Portugal	0.69557	0.0002914	0.15223	0.0004857	0.759	72.0	2.9	4.567	21136.30	35.5	0.14339	3.688	45.7	76.84	5.410	16.2
Romania	0.62334	0.0000000	0.08230	0.0000000	0.762	66.6	7.7	4.277	10813.72	28.3	0.31016	2.799	37.6	72.87	5.945	22.4
Russian Federation	0.03518	0.0000208	0.00684	0.0000208	0.832	63.5	6.6	4.642	10743.10	37.7	0.00718	5.568	37.9	75.50	5.810	27.2
Rwanda	0.00074	0.0000000	0.00811	0.0000000	0.450	59.9	29.2	4.349	748.39	50.4	0.00016	0.775	26.5	73.40	3.408	17.4
Senegal	0.00284	0.0000000	0.00132	0.0000000	0.368	58.8	33.6	3.809	1033.07	40.3	0.00278	1.112	26.5	53.06	4.631	25.5
Serbia	0.42963	0.0000000	0.07775	0.0001424	0.778	67.4	5.1	4.141	5900.04	28.5	0.16220	2.919	35.5	73.13	5.398	22.4
Slovakia	1.05076	0.0000000	0.08787	0.0000000	0.831	68.3	4.9	4.334	17604.95	26.5	0.42593	4.196	42.9	74.90	6.173	15.3
Slovenia	0.89416	0.0000000	0.18677	0.0004839	0.886	70.5	1.8	4.477	23597.29	25.4	0.22306	4.675	46.9	75.42	5.948	13.2
South Africa	0.08394	0.0000353	0.01865	0.0000882	0.708	55.7	34.2	4.321	6160.73	63.0	0.02348	3.415	35.1	64.89	4.724	15.3
Spain	0.73946	0.0000000	0.09942	0.0002362	0.824	73.8	2.7	4.700	28156.82	36.2	0.29453	3.806	48.7	77.02	6.310	6.3
Sri Lanka	0.03619	0.0000000	0.00256	0.0000000	0.749	66.8	8.0	4.084	4065.22	39.8	0.01003	1.532	28.7	58.86	4.471	38.7
Sweden	0.40138	0.0004966	0.21087	0.0010926	0.904	72.4	2.4	5.519	53442.01	29.2	0.34248	6.591	63.1	81.27	7.314	14.2
Switzerland	1.32435	0.0004725	0.22100	0.0009450	0.897	73.5	3.6	5.858	80189.70	32.5	0.37042	4.850	68.4	75.92	7.487	13.2
Tajikistan	0.00045	0.0000000	0.00022	0.0000000	0.659	63.5	37.1	4.136	800.97	34.0	0.00022	0.968	26.5	56.86	5.352	13.4
Tanzania,	0.00290	0.0000000	0.00241	0.0000000	0.441	56.5	40.3	3.711	936.33	37.8	0.00075	1.253	28.1	54.04	3.303	17.5
Thailand	0.13992	0.0000145	0.01372	0.0000145	0.661	66.8	10.5	4.723	6593.82	37.8	0.05009	2.492	38.0	77.44	6.072	23.5
The FYR of Macedonia	0.13729	0.0000000	0.03648	0.0000000	0.691	67.1	10.7	4.227	5442.61	35.6	0.06241	3.082	29.9	81.18	5.185	20.4
Tunisia	0.08871	0.0000000	0.02836	0.0000000	0.659	66.3	11.7	3.930	3490.83	35.8	0.02784	2.172	32.9	63.58	4.592	13.3
Turkey	0.08532	0.0000000	0.02159	0.0000124	0.689	66.0	10.9	4.418	10540.62	41.9	0.02170	3.208	37.4	69.14	5.483	17.4
Uganda	0.00259	0.0000000	0.00448	0.0000000	0.525	54.9	37.7	3.698	604.04	41.0	0.00070	1.187	25.3	56.94	4.161	12.3
Ukraine	0.03083	0.0000000	0.00468	0.0000000	0.794	64.0	7.8	4.107	2639.82	25.0	0.00986	2.964	38.5	65.75	4.103	12.3
United Kingdom	0.57406	0.0000303	0.16252	0.0005604	0.914	71.9	3.7	5.507	39720.44	33.2	0.25387	4.799	60.1	82.22	6.814	11.2
United States of America	0.09356	0.0000952	0.16493	0.0004145	0.903	68.5	5.6	5.853	59531.66	41.5	0.01714	8.366	59.8	82.54	6.886	33.0
Uruguay	0.38707	0.0000000	0.02083	0.0000000	0.733	68.8	7.9	4.146	16245.60	39.7	0.07001	2.981	34.2	61.99	6.379	30.4
Venezuela	0.01992	0.0000000	0.00203	0.0000000	0.741	66.1	14.0	3.228	15692.41	46.9	0.00435	3.288	22.3	30.87	4.806	25.4
Viet Nam	0.05401	0.0000000	0.00221	0.0000000	0.626	67.5	17.3	4.356	2343.12	34.8	0.01435	1.734	37.9	67.93	5.103	9.3
Yemen	0.00035	0.0000000	0.00046	0.0000000	0.349	55.1	43.2	2.875	660.28	36.7	0.00007	1.008	15.0	33.00	3.355	14.0
Zambia	0.00316	0.0000000	0.00211	0.0000000	0.580	54.3	43.8	3.518	1509.80	57.1	0.00187	0.954	20.7	64.50	4.377	19.5
Zimbabwe	0.00847	0.0000000	0.00254	0.0000000	0.558	54.4	40.0	3.320	1079.61	43.2	0.00309	1.088	23.1	48.47	3.692	11.4

## ANNEX 3: WSQ TABLE OF RANKED DATA

COUNTRY	R01	R02	R03	R04	R05	R06	R07	R08	R09	R10	R11	R12	R13	R14	R15	R16
Albania	48	32	69	41	48	38	58	64	66	16	44	50	72	55	90	35
Algeria	84	32	57	41	71	67	79	74	72	11	88	55	101	114	66	110
Angola	97	32	117	41	100	103	111	116	69	88	105	31	91	115	110	16
Argentina	44	12	58	34	31	35	50	80	36	85	46	81	69	87	25	31
Armenia	88	32	86	41	46	58	56	62	75	36	89	46	59	39	103	28
Australia	19	9	4	1	2	8	17	16	7	50	20	112	18	11	8	75
Austria	23	11	14	16	22	13	12	13	10	21	27	106	19	17	10	95
Azerbaijan	76	32	113	41	59	73	86	27	70	1	73	51	71	48	69	111
Bangladesh	99	32	101	41	96	82	87	86	95	35	102	4	104	116	91	15
Belgium	35	7	15	10	13	23	17	15	14	12	31	111	20	44	14	103
Benin	95	32	103	41	104	109	113	106	106	103	114	25	115	106	106	89
Bhutan	85	32	84	41	107	90	85	71	81	69	70	90	82	62	79	118
Bolivia	77	32	96	41	67	83	90	103	80	93	78	65	109	107	49	24
Bosnia and Herzegovina	36	32	43	41	56	45	35	90	64	39	42	71	66	72	75	81
Botswana	89	32	52	41	74	97	92	51	53	118	72	58	78	68	113	62
Brazil	49	28	49	32	68	64	65	69	46	112	53	66	56	93	24	21
Bulgaria	8	32	47	41	35	56	38	39	51	63	10	68	33	42	81	51
Burkina Faso	103	32	107	41	118	110	108	113	112	54	113	23	117	105	96	108
Burundi	118	32	116	41	109	111	107	112	118	68	117	1	112	113	118	6
Cambodia	101	32	102	41	102	89	84	82	99	23	93	24	87	97	95	39
Cameroon	102	32	106	41	92	114	109	102	98	100	101	21	102	112	80	89
Canada	43	16	7	13	11	6	30	11	12	46	47	115	16	14	6	44
Chile	37	19	50	26	36	27	42	25	34	102	38	84	42	47	22	19
China	38	30	55	31	77	32	48	21	49	84	33	82	15	65	68	115
Colombia	39	32	56	41	70	46	63	54	57	111	40	41	55	50	30	3
Costa Rica	56	32	54	41	54	25	43	37	40	107	50	57	48	52	11	14
Côte d'Ivoire	92	32	118	41	109	117	115	92	92	81	97	22	116	100	86	68
Croatia	15	32	17	41	39	30	28	63	39	24	13	78	36	43	64	83
Cyprus	40	32	24	41	34	5	5	52	23	46	41	72	25	45	48	64
Czech Republic	6	32	29	27	13	29	9	23	26	4	4	101	23	24	18	75
Denmark	24	32	8	5	3	21	25	10	6	13	19	114	7	1	3	66
Dominican Republic	80	32	100	41	78	72	83	91	54	95	87	32	75	76	65	10
Ecuador	55	32	64	41	61	40	75	85	58	94	54	47	86	88	37	17
Egypt	75	32	65	38	83	88	77	87	86	28	60	44	84	94	97	91
El Salvador	65	32	110	41	84	67	61	96	76	75	66	45	94	61	32	8
Estonia	10	32	20	6	18	37	7	22	27	39	6	113	20	9	50	44
Ethiopia	111	32	95	41	116	97	103	95	110	71	116	14	99	110	101	107
Finland	21	1	12	4	8	22	2	8	11	9	11	109	6	10	1	95
France	31	25	33	19	25	4	20	17	17	39	32	93	14	25	20	113
Georgia	64	32	53	41	24	73	49	55	73	61	82	40	53	6	102	27
Germany	9	17	18	17	1	23	20	4	13	27	29	99	8	16	13	73
Ghana	107	32	68	41	88	100	104	97	93	85	96	43	97	89	87	46
Greece	13	14	21	20	26	18	17	75	28	59	28	87	37	56	61	99
Guatemala	82	32	98	41	95	75	82	72	67	105	90	39	92	75	26	17
Guinea	115	32	108	41	115	112	112	105	107	44	109	27	113	108	108	23
Honduras	79	32	104	41	98	50	71	84	85	108	83	34	95	86	56	12
Hungary	14	4	35	41	32	50	32	49	37	20	15	77	29	40	54	102
India	74	31	66	40	90	92	96	32	91	53	74	18	51	77	104	85



COUNTRY	R01	R02	R03	R04	R05	R06	R07	R08	R09	R10	R11	R12	R13	R14	R15	R16
Indonesia	73	32	81	41	82	85	80	28	77	72	68	33	74	60	78	68
Iran	70	27	36	33	49	69	62	57	62	69	64	64	56	92	85	105
Ireland	20	32	1	9	4	16	16	19	4	31	18	94	9	13	12	85
Israel	4	10	30	8	17	11	12	12	15	80	30	92	10	46	9	64
Italy	2	21	32	21	39	6	11	35	19	50	2	86	27	38	36	116
Jamaica	87	32	63	41	64	48	64	58	65	96	77	38	70	59	44	5
Japan	28	15	46	25	23	1	3	7	18	33	17	95	12	28	42	113
Jordan	60	32	42	41	57	56	69	53	71	44	67	49	68	78	72	54
Kazakhstan	72	18	74	41	33	81	51	46	48	8	65	104	63	30	47	22
Kenya	83	32	72	41	91	93	97	79	97	106	95	12	66	67	99	49
Korea, Republic of (South)	41	24	34	23	21	8	12	20	20	26	34	105	11	2	45	104
Kyrgyzstan	113	32	111	41	51	79	76	89	100	7	117	37	83	64	74	13
Latvia	22	32	31	41	19	60	27	43	33	49	22	102	30	15	41	75
Lebanon	54	32	38	41	79	62	40	93	50	28	76	73	78	96	70	58
Lesotho	108	32	87	41	98	118	118	114	101	114	98	26	85	79	109	6
Lithuania	26	32	25	41	16	62	30	33	30	63	14	103	35	12	38	100
Luxembourg	32	32	5	41	38	12	3	14	1	25	25	118	13	54	15	109
Madagascar	94	32	114	41	100	95	94	107	115	87	106	9	96	111	111	48
Malawi	109	32	73	41	105	101	100	115	117	96	108	5	104	83	114	61
Malaysia	33	32	26	29	54	54	41	18	45	99	36	88	31	18	28	58
Mali	114	32	109	41	117	115	117	108	108	42	111	30	103	102	93	40
Malta	1	32	22	41	30	15	37	29	22	16	1	98	22	70	19	64
Mauritius	42	32	60	41	53	66	59	36	43	57	56	76	64	19	43	49
Mexico	57	32	62	39	69	41	60	41	47	91	58	59	50	41	21	33
Moldova, Republic of	69	32	78	41	58	77	66	77	88	5	81	42	43	36	53	71
Mongolia	93	32	76	41	43	84	70	88	78	34	94	117	47	53	76	8
Montenegro	45	32	40	41	41	38	23	66	52	31	45	75	46	34	63	51
Morocco	62	32	67	41	93	70	81	59	82	78	75	36	66	58	67	42
Mozambique	106	32	93	41	112	112	110	117	116	113	99	6	104	99	98	25
Namibia	81	32	75	41	86	102	91	78	63	116	62	48	81	81	94	34
Nepal	105	32	92	41	98	87	88	76	105	41	104	11	98	80	82	40
Netherlands	17	8	6	7	7	16	20	3	9	19	23	107	2	26	5	95
Nicaragua	90	32	105	41	88	48	72	81	89	98	86	28	108	95	33	74
Nigeria	110	32	94	41	103	116	116	110	90	89	107	17	110	103	73	54
Norway	30	6	10	11	5	8	5	9	3	10	24	108	17	5	2	60
Pakistan	86	32	77	41	111	96	114	101	94	22	92	3	100	104	58	116
Panama	61	32	79	41	62	28	68	40	35	109	69	54	60	66	23	1
Paraguay	59	32	99	41	80	70	73	98	68	104	79	79	76	82	51	91
Peru	63	32	80	41	65	42	56	61	56	92	57	53	61	49	52	37
Philippines	67	29	91	41	72	85	78	45	83	76	59	15	62	85	55	3
Poland	34	32	39	30	19	33	28	31	38	28	35	89	34	21	34	75
Portugal	12	5	16	14	45	18	12	34	25	55	26	80	28	23	59	66
Romania	16	32	27	41	44	54	43	56	41	14	8	60	43	37	40	37
Russian Federation	68	23	61	35	27	79	39	30	42	65	71	100	40	29	46	26
Rwanda	112	32	59	41	106	91	89	47	111	109	112	2	89	33	115	54
Senegal	100	32	97	41	113	94	93	94	103	77	85	16	89	101	88	28
Serbia	25	32	28	24	42	44	34	67	60	15	21	61	49	35	60	37
Slovakia	5	32	23	41	28	36	33	48	29	6	3	85	32	32	31	71
Slovenia	7	32	9	15	15	26	1	38	24	3	16	91	26	31	39	85

COUNTRY	R01	R02	R03	R04	R05	R06	R07	R08	R09	R10	R11	R12	R13	R14	R15	R16
South Africa	53	20	48	28	60	104	95	50	59	117	49	74	52	69	84	71
Spain	11	32	19	22	29	2	10	26	21	60	9	83	23	22	29	112
Sri Lanka	66	32	82	41	46	50	47	73	74	74	61	29	76	84	92	2
Sweden	27	2	3	2	9	13	8	5	8	18	7	110	3	7	7	79
Switzerland	3	3	2	3	12	3	24	1	2	36	5	97	1	27	4	85
Tajikistan	116	32	115	41	74	79	98	68	109	46	110	8	89	91	62	81
Tanzania	98	32	85	41	108	99	102	99	104	66	100	20	80	98	117	53
Thailand	46	26	51	36	72	50	52	24	55	66	43	56	39	20	35	32
The FYR of Macedonia	47	32	37	41	63	46	53	60	61	56	39	67	73	8	71	43
Tunisia	51	32	41	41	74	58	55	83	79	57	48	52	58	73	89	83
Turkey	52	32	44	37	65	64	54	42	44	83	51	69	45	51	57	54
Uganda	104	32	71	41	94	106	99	100	114	79	103	19	93	90	105	91
Ukraine	71	32	70	41	37	76	45	70	84	2	63	62	38	63	107	91
United Kingdom	18	22	13	12	6	20	25	6	16	43	12	96	4	4	17	100
United States of America	50	13	11	18	10	33	36	2	5	81	52	116	5	3	16	11
Uruguay	29	32	45	41	52	31	46	65	31	73	37	63	54	74	27	19
Venezuela	78	32	90	41	49	62	67	111	32	101	80	70	111	118	83	30
Viet Nam	58	32	88	41	81	42	74	44	87	52	55	35	40	57	77	105
Yemen	117	32	112	41	114	105	105	118	113	62	115	10	118	117	116	80
Zambia	96	32	89	41	84	108	106	104	96	115	91	7	113	71	100	46
Zimbabwe	91	32	83	41	88	107	101	109	102	90	84	13	104	109	112	98