

GLOBAL PEACE INDEX

2016



TEN YEARS OF
MEASURING PEACE

**INSTITUTE FOR
ECONOMICS
& PEACE**

Quantifying Peace and its Benefits

The Institute for Economics and Peace (IEP) is an independent, non-partisan, non-profit think tank dedicated to shifting the world's focus to peace as a positive, achievable, and tangible measure of human well-being and progress.

IEP achieves its goals by developing new conceptual frameworks to define peacefulness; providing metrics for measuring peace; and uncovering the relationships between business, peace and prosperity as well as promoting a better understanding of the cultural, economic and political factors that create peace.

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EXECUTIVE SUMMARY

This is the tenth edition of the Global Peace Index (GPI), which ranks 163 independent states and territories according to their level of peacefulness. Produced by the Institute for Economics and Peace (IEP), the GPI is the world's leading measure of global peacefulness. This tenth anniversary report presents the most comprehensive analysis to date on the trends in peace and violence over the past ten years.

In addition to presenting the findings from the 2016 GPI and a trend analysis, this year's report includes an updated assessment of the economic value of peace and new research on the systemic nature of Positive Peace. Given the importance of the new United Nations Sustainable Development Goal 16 on peace, justice and strong institutions, there is also a detailed audit of the current data to determine how measurable Goal 16 is and where there are gaps in coverage.

The GPI is composed of 23 qualitative and quantitative indicators from highly respected sources and now ranks 163 independent states and territories, covering 99.7 per cent of the world's population. The 2016 edition expands its coverage by including Palestine for the first time. The index gauges global peace using three broad themes: the level of safety and security in society; the extent of domestic or international conflict; and the degree of militarisation.

The tenth edition of the GPI finds that overall global levels of peace continue to deteriorate while the gap between the most and least peaceful countries continues to widen. The rising global inequality in peace is important to highlight as it masks some positive trends. While some of the most peaceful nations have reached historic levels of peace, the least peaceful nations have become even less peaceful. So intense is the violence and conflict in the Middle East and North Africa (MENA) region that, when looking at the rest of the world, the average levels of peacefulness in fact increased.

Coinciding with the increasing internationalisation of the MENA conflicts has been a renewed effort by many countries to fund peacekeeping operations, with the timeliness of payments for UN peacekeeping operations substantially improving over the last ten years. There has also been a notable ten per cent decrease in global military spending in the last three years. The conflicts in MENA, however, highlight the internationalisation of modern conflict. Countries thousands of kilometres away are affected by refugee flows or terrorism stemming from these conflicts.

The results of the 2016 GPI reinforce the underlying trend of the last ten years. It finds the world has become slightly

less peaceful - by 0.53 per cent - when compared to the prior year. Reflecting the growing inequality in peace, slightly more countries improved than deteriorated, with 81 countries improving their peace scores while 79 countries deteriorated. As the size of the deteriorations were larger than the improvements, there was a decline in the average country score. Two of the three domains of the GPI deteriorated last year. Both the societal safety and security and ongoing conflict domains recorded lower levels of peace, while militarisation recorded a slight improvement. The indicator with the largest improvement was *UN peacekeeping funding*. This underscores the increasing commitment of the international community to maintaining adequate funding for peacekeeping operations. The second largest improvement was for the *security officers and police rate* indicator, with the number of countries that have high levels of police and internal security officers decreasing.

The two indicators with the largest yearly deterioration were the *impact of terrorism* and *political instability*. Deaths from terrorism increased by 80 per cent from last year's report with only 69 countries not recording a terrorist incident. The intensity of terrorism also increased with the number of countries suffering more than 500 deaths from terrorist acts more than doubling, up from 5 to 11. The second largest deterioration was in the *political instability* indicator and was driven by large changes within many countries spread across many regions. Among the countries with the largest deteriorations were Djibouti, Guinea-Bissau, Poland, Burundi, Kazakhstan and Brazil.

Iceland is once again the world's most peaceful country, followed by Denmark, Austria, New Zealand and Portugal, which improved nine places. The five countries at the bottom of the index are all suffering from ongoing conflicts, with Syria ranking least peaceful, followed by South Sudan, Iraq, Afghanistan and Somalia.

Europe retains its position as the most peaceful region in the world, accounting for six of the first seven places in the global rankings. However, the average score for Europe

VIOLENCE COSTS

13.3%



OF WORLD GDP

deteriorated slightly, reflecting increases in the *impact of terrorism* due to the large terrorist attacks in Paris and Brussels as well as the escalation of violence and instability in Turkey and its deteriorating relations with its neighbours.

The largest regional improvement occurred in Central America and the Caribbean, recording an average improvement of one per cent. The South and North America regions made progress as well, while MENA experienced the largest deterioration, followed by sub-Saharan Africa, Europe and the Asia-Pacific.

The historic ten-year deterioration in peace has largely been driven by the intensifying conflicts in the MENA region. Terrorism is also at an all-time high, battle deaths from conflict are at a 25 year high, and the number of refugees and displaced people are at a level not seen in sixty years. Notably, the sources for these three dynamics are intertwined and driven by a small number of countries, demonstrating the global repercussions of breakdowns in peacefulness. Many countries are at record high levels of peacefulness, while the bottom 20 countries have progressively become much less peaceful, creating increased levels of inequality in global peace.

Over the past decade, the average country score deteriorated by 2.44 per cent with 77 countries improving while 85 countries deteriorated, highlighting the global complexities of peace and its uneven distribution.

The number of refugees and displaced persons increased dramatically over the decade, doubling from 2007 to 2015, to approximately 60 million people. There are nine countries with more than 10 per cent of their population classified as refugees or displaced persons with Somalia and South Sudan having more than 20 per cent of their population displaced and Syria with over 60 per cent displaced.

The stand-out improvement over the period is *UN peacekeeping funding* which improved by 12 per cent. The other indicator with the most improvement is *external conflicts fought*, however this has been offset by an increase in *internal conflicts fought*. The two other indicators to show improvement are *armed service personnel* and *military expenditure*, both improving by five per cent. The number of *armed service personnel* declined in 48 of the 51 countries classified as authoritarian, highlighting the shift to more technologically advanced militaries.

The economic impact of violence on the global economy in 2015 was \$13.6 trillion in purchasing power parity (PPP) terms. This figure represents 13.3 per cent of the world's economic activity (gross world product) or \$1,876 for every person in the world. To put this in perspective, it is approximately 11 times the size of global foreign direct investment.

The economic analysis highlights how the economic losses from conflict dwarf the expenditures and investments in peacebuilding and peacekeeping. Peacebuilding and peacekeeping expenditures represent only two per cent of the global economic losses from conflict.

Further research on Positive Peace is presented in this report, which conceptualises systems thinking and its relationship to Positive Peace. Many of the challenges facing humanity are fundamentally global in nature, such as climate change, decreasing biodiversity, continued economic instability and increasing migration. All of these challenges are interconnected and multifaceted, requiring new ways of conceptualising the relations between countries and the larger systems upon which humanity depends. This report contains an analysis of systems thinking and how it applies to nation states, describing concepts of national intent, their encoded norms, national homeostasis, self-modification and mutual feedback loops to provide a new inter-dependent framework and more holistic approach to understanding peace and development.

The report also provides an analysis of countries' resilience to shocks and how levels of Positive Peace affect the likelihood and impact of shocks and hazards. Countries with high Positive Peace are more likely to maintain their stability and adapt and recover from both internal and external shocks. Low Positive Peace systems are more likely to generate internal shocks, with 84 per cent of major political shocks occurring in these countries. Similarly, there are 13 times more lives lost from natural disasters in nations with low Positive Peace as opposed to those with high Positive Peace, a disproportionately high number when compared to the distribution of incidents.

The final section of the report provides **an audit of the available data to measure Goal 16** of the Sustainable Development Goals (SDGs). For the first time, UN member states have formally recognised the critical nature of peacefulness in advancing global development. The 17 SDGs are a new set of goals to target poverty, inequality, injustice and climate change by 2030. Goal 16 relates to the promotion of peace, justice and strong institutions.

IEP's audit of the existing data for Goal 16 finds that whilst its targets are only partly measurable, there is sufficient existing data to adequately track progress. However, while indicative progress can be gauged, there are still significant challenges to data availability, disaggregation, reliability, timeliness and objectivity. It will take significant time and investment for countries to develop the necessary capacities to measure Goal 16. Independent assessment will be critical in plugging data gaps and verifying the accuracy of national statistical data.

GLOSSARY

The following terms used throughout the 2016 Global Peace Index Report are defined here for reference:

Correlation

The statistical relationship between two variables; how much one variable changes in relation to another variable. IEP uses linear correlations to compare the strength of the association between different variables.

Correlation coefficient

A value between -1 and 1 that shows the strength of the correlation between two variables, where -1 indicates a perfect indirect correlation, 0 indicates no correlation and 1 indicates a perfect direct correlation.

Direct cost of violence

Costs which are directly attributed to a specific form of violence. Direct costs include the cost of violence to the victim, the perpetrator and the government. These include direct expenditures, such as the cost of policing.

Economic impact of violence

The expenditure and economic effect related to containing, preventing and dealing with the consequences of violence. The estimates include the direct and indirect cost of violence as well as an economic multiplier.

Encoded norms

The values by which society self-organises.

External peace

A set of indicators that measures how peaceful a country is outside its national borders.

Global Peace Index (GPI) domains

■ Ongoing domestic and international conflict

Indicators of the number and intensity of ongoing civil and international wars.

■ Societal safety and security

Indicators of the levels of safety and security within a country, such as the perception of criminality in society, the level of political instability and the rate of homicides and violent crimes.

■ Militarisation

Indicators of a nation's military capacity, both in terms of the economic resources committed to the military and support for multilateral operations.

Homeostasis

A persistent state of self-regulating and balanced stability.

Indirect cost of violence

Accounts for costs that accrue after the violent event and include indirect economic losses, physical and physiological trauma to the victim and lost productivity.

Internal peace

A set of indicators that measures how peaceful a country is inside its national borders.

Multiplier

A scaling factor used to adjust the value of one variable based on another variable. For example, the economic impact of violence is calculated using a multiplier of two.

Negative Peace

The absence of violence or the fear of violence.

Positive Peace

The attitudes, institutions and structures that create and sustain peaceful societies. These same factors also lead to many other positive outcomes that support the optimum environment for human potential to flourish.

Resilience

The ability of a country to absorb and recover from shocks, for example natural disasters or fluctuations in commodity prices.

Self-modification

A process by which society modifies itself to accommodate new situations and challenges.

Shock

A sudden change from inside or outside a nation-state system that has the potential to cause harm.

Significant

Of high importance or noteworthiness.

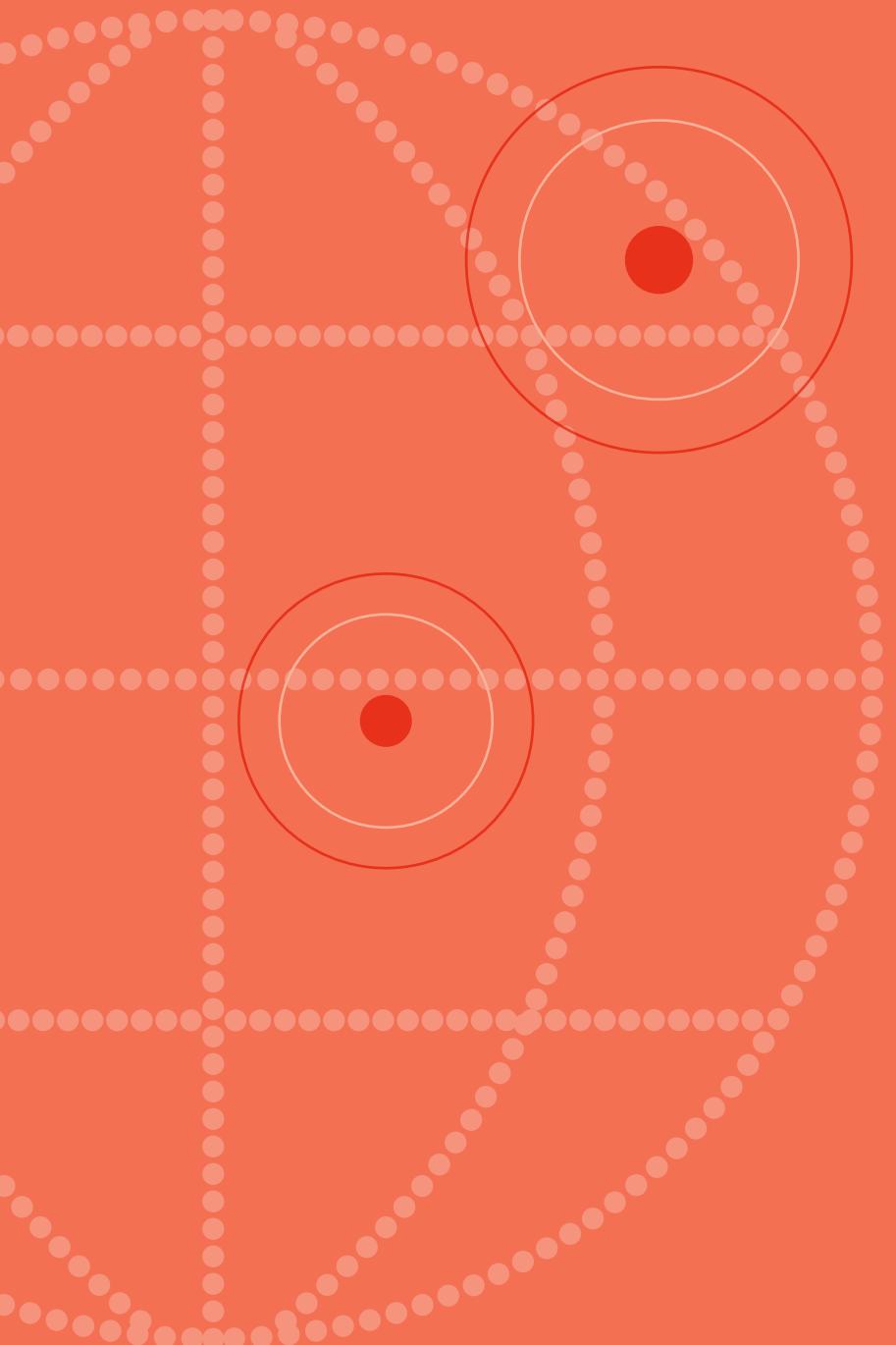
Significant, statistically

A result that is unlikely to be due to chance alone, as measured statistically using probability. A standard definition is a p-score of less than .05. This means that there is only a 5% chance that the results of an analysis are due to chance.

Violence containment

Economic activity related to the consequences or prevention of violence where the violence is directed against people or property.

RESULTS & FINDINGS



HIGHLIGHTS

- The world became slightly less peaceful in 2016, with the average GPI country score deteriorating by 0.53 per cent.
- Over the past year, 81 countries improved their peacefulness, while 79 countries deteriorated. The average deterioration was larger than the average improvement, accounting for the global drop in score.
- The societal safety and security and ongoing conflict domains both deteriorated, while militarisation recorded a slight improvement.
- The largest improvement was recorded in the *UN peacekeeping funding and security officers and police* indicators, while the largest deterioration occurred in *terrorism impact and political instability*.
- The international community's requirement for and commitment to UN peacekeeping funding reached record highs in early 2016.
- The *security officers and police* rate decreased in 44 countries and increased in 29, with the biggest reductions occurring in Kazakhstan, Moldova and France.
- *Violent crime* improved in 13 countries and deteriorated in only five. The largest absolute change occurred in Libya.
- The *impact of terrorism* deteriorated in 77 countries, while improving in 48. Only 37 of the 163 countries measured had no *impact of terrorism*. The largest deterioration in this indicator was in the Middle East and North Africa.

The 2016 Global Peace Index overall score deteriorated slightly compared with 2015, and at a faster rate than the previous year. Once again, the Middle East and North Africa (MENA) was the region that saw its levels of peace deteriorate the most. Four regions scored worse than the previous year, while three other regions improved and two remained the same.

The score for MENA — already the least peaceful region in the world — dropped further as numerous regional conflicts persisted or escalated and new ones emerged. Notably, the civil war in Syria broadened its international scope as a result of the Russian intervention that began in September 2015 on the side of the Syrian government. Meanwhile, Saudi Arabia intervened in Yemen's ongoing civil war and the US-led coalition continued airstrikes against the so-called Islamic State in Iraq and the Levant (ISIL). The campaigns in both Syria and Iraq have intensified since the Paris terrorist attacks in November. In contrast, Europe maintained its position as the most peaceful region in the world, notwithstanding some deterioration in its score. Although the region remains largely devoid of internal conflict, the looming threat of terrorism continues to weigh on the region's prospects for further advances in peace.

With regard to **societal safety and security**, there were mixed successes across the different regions. Only a small number of countries experienced a change in either *perceptions of criminality* or the *level of violent crime* and in both cases more countries improved than deteriorated. The scores for the *number of jailed population per 100,000 people* also roughly cancelled each other out between the countries that had higher

incarceration rates last year and those that had lower. Notably, only MENA and South America saw a rise in the *level of violent crime*, which improved or remained static in all other regions. South America and Central America and the Caribbean were frequently the worst performers in the indicators relating to societal safety and security, with the only exceptions being an excessive incarceration rate in the United States and MENA's large numbers of internal security forces. The latter, however, improved in all regions in 2016 except South Asia and MENA.

Less favourable were the results for *political instability*, which worsened in 39 countries from 2015 to 2016. A striking case this year was Brazil, where the trigger was a major corruption scandal. This instability, however, has not yet translated into a higher *likelihood of violent demonstrations* except in South Asia, MENA, and sub-Saharan Africa, which were already at the bottom of the rankings. At the same time, political terror increased globally, with Europe recording the second biggest deterioration worldwide, after Asia-Pacific. Despite this, Europe is still the best placed region in the *Political Terror Scale* rankings. The number of *refugees and internally displaced people* also deteriorated across much of the world, with only a modest improvement in South America failing to make up for deteriorations in every other region. The most significant deteriorations in this indicator were seen in Central America and the Caribbean - mainly in the Golden Triangle countries of Honduras and Guatemala, as well as MENA, where the outbreak of war in Yemen has led to a humanitarian crisis.



The results for indicators related to **ongoing domestic and international conflict** also varied widely. The *number of deaths from internal organised conflict* lessened in three regions, including modestly in MENA, but increased in four other regions, particularly in Russia and Eurasia where the Ukraine conflict continued. Although the global score for the *number of deaths from external organised conflict* also deteriorated, the average was heavily skewed due to the results from MENA, and to a lesser extent South Asia; all other regions improved or stayed the same. The *number and duration of internal conflicts* improved in more countries than deteriorated, however, the global average score did deteriorate due to the intensification and persistence of war in Syria, Ukraine, the Central African Republic and Libya. A greater number of countries deteriorated for the *number, duration and role in external conflicts*, and almost all regions did worse than in 2015. The biggest slump came in North America, where the US remains mired in numerous Middle Eastern conflicts as well as in Afghanistan.

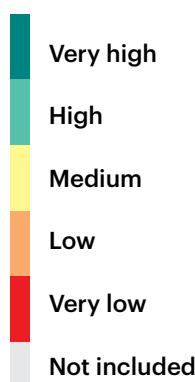
The possibility of a political settlement in Syria and Yemen would certainly boost the outlook for domestic and international conflict in the coming year, but the persistence of ISIL as a threat to the region suggests that outside powers will remain engaged in the Middle East for some time. In line with heightened external tensions, the average score for *relations with neighbouring countries* deteriorated globally and in three of nine regions. Perhaps most worrying from an international security perspective is that *impact of terrorism* was the indicator that deteriorated the most, even though three regions, Russia and Eurasia, Central American and the Caribbean, and South

Asia, recorded improvements. Aside from MENA, Europe was the region that suffered most from terrorism compared with last year, with Turkey, France and Belgium among the most affected. Belgium and France have struggled with home-grown Islamic terrorism, which was highlighted by the terrorist attacks in Paris in November 2015.

Finally, the indicators relating to **militarisation** recorded a slight improvement on average. Although military expenditure as a percentage of GDP continued to climb in over 70 countries along with the volume of imports of major conventional weapons, the *number of armed services personnel per 100,000 people* was down overall, with only a noticeable uptick in Russia and Eurasia and Central America and the Caribbean, which in the latter case mostly relates to domestic security concerns rather than the risk of external conflict. Nuclear and heavy weapons capabilities also eased. The region that remains at highest risk of further militarisation is MENA, where numerous countries are continuing to build up their conventional arsenals and import an increasing number of weapons. The escalation of existing conflicts in the Middle East, as well as the opening of new fronts such as Yemen, will continue to encourage military build-ups in neighbouring countries, particularly those that are directly involved in these conflicts.

RANK	COUNTRY	SCORE
1	Iceland	1.192
2	Denmark	1.246
3	Austria	1.278
4	New Zealand	1.287
5	Portugal	1.356
6	Czech Republic	1.360
7	Switzerland	1.370
8	Canada	1.388
9	Japan	1.395
10	Slovenia	1.408
11	Finland	1.429
12	Ireland	1.433
13	Bhutan	1.445
14	Sweden	1.461
15	Australia	1.465
16	Germany	1.486
17	Norway	1.500
18	Belgium	1.528
19	Hungary	1.534
20	Singapore	1.535
21	Netherlands	1.541
22	Poland	1.557
23	Mauritius	1.559
24	Slovakia	1.603
25	Spain	1.604
26	Croatia	1.633
27	Chile	1.635
28	Botswana	1.639
29	Bulgaria	1.646
30	Malaysia	1.648
31	Romania	1.649
32	Latvia	1.680
33	Costa Rica	1.699
34	Qatar	1.716
35	Uruguay	1.726
36	Estonia	1.732
37	Lithuania	1.735
38	Madagascar	1.763
39	Italy	1.774
40	Zambia	1.783

THE STATE OF PEACE

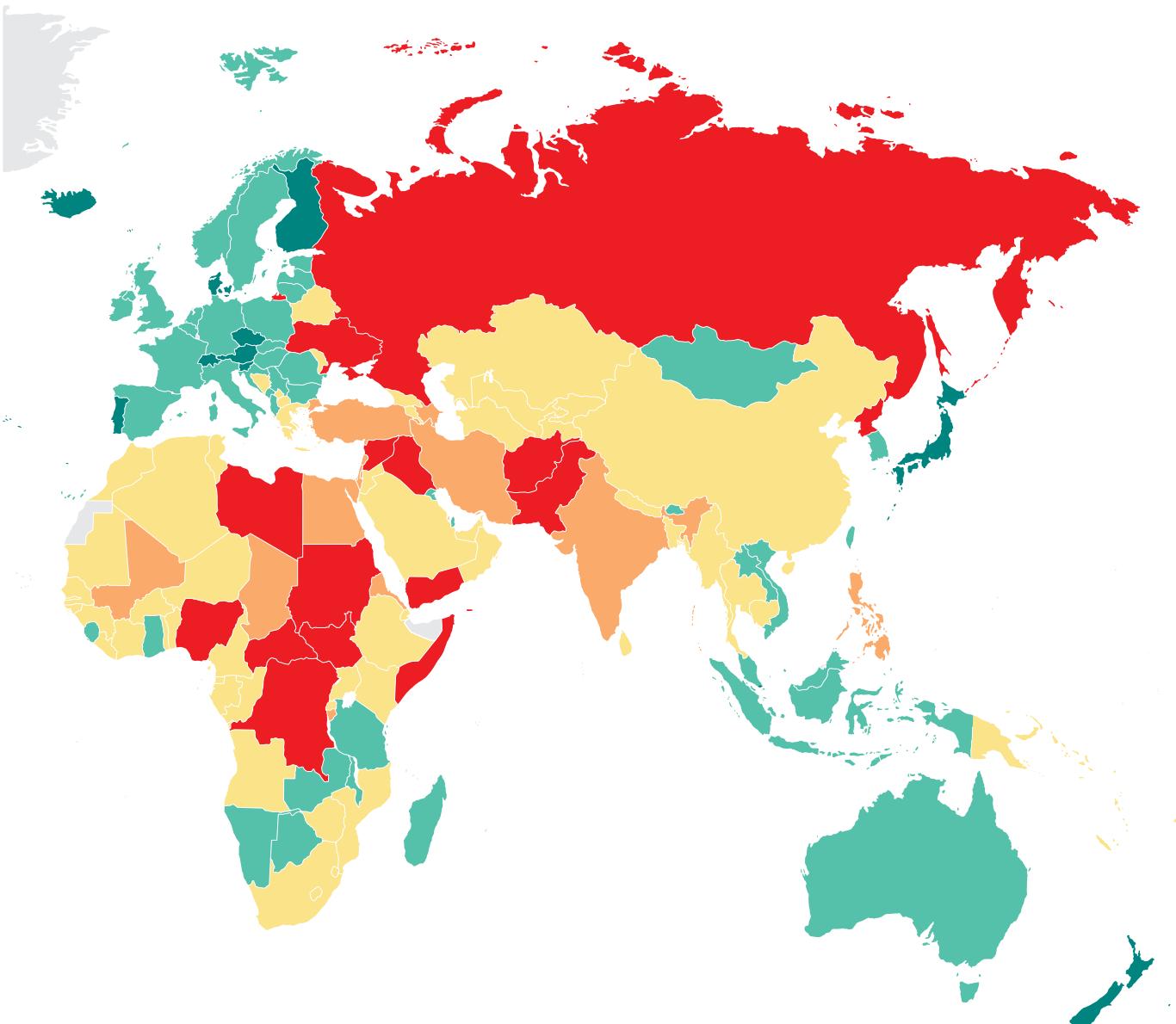


2016 GLOBAL PEACE INDEX

A SNAPSHOT OF THE GLOBAL STATE OF PEACE

RANK	COUNTRY	SCORE
79	Gabon	2.033
80	Paraguay	2.037
81	Bolivia	2.038
82	Greece	2.044
83	Bangladesh	2.045
84	Trinidad and Tobago	2.056
85	Georgia	2.057
85	Cuba	2.057
85	Peru	2.057
88	Burkina Faso	2.063
89	Haiti	2.066
90	Swaziland	2.074
91	Morocco	2.086
92	The Gambia	2.091
92	Jamaica	2.091
94	Macedonia (FYR)	2.092
95	Guyana	2.105
96	Jordan	2.127
97	Sri Lanka	2.133
98	Angola	2.140
99	Papua New Guinea	2.143
99	Dominican Republic	2.143
101	Uganda	2.148
101	Guinea	2.148
103	United States of America	2.154
104	Cambodia	2.161
105	Brazil	2.176
106	Belarus	2.202
106	Turkmenistan	2.202
108	Algeria	2.213
109	Uzbekistan	2.216
110	Armenia	2.218
111	Honduras	2.237
111	El Salvador	2.237
113	Niger	2.239
114	Republic of the Congo	2.249
115	Myanmar	2.256
116	Guinea-Bissau	2.264
117	Guatemala	2.270
118	Côte d'Ivoire	2.279
119	Ethiopia	2.284
120	China	2.288

41	Taiwan	1.787
42	Indonesia	1.799
43	Sierra Leone	1.805
44	Ghana	1.809
45	Malawi	1.817
46	France	1.829
47	United Kingdom	1.830
48	Serbia	1.834
49	Panama	1.837
50	Mongolia	1.838
51	Kuwait	1.842
52	Laos	1.852
53	South Korea	1.858
54	Albania	1.867
55	Namibia	1.873
56	Timor-Leste	1.879
57	Montenegro	1.884
58	Tanzania	1.899
59	Vietnam	1.906
60	Bosnia and Herzegovina	1.915
61	United Arab Emirates	1.931
62	Equatorial Guinea	1.940
63	Lesotho	1.941
64	Tunisia	1.949
65	Moldova	1.953
66	Togo	1.954
67	Argentina	1.957
68	Mozambique	1.963
69	Nicaragua	1.975
70	Senegal	1.978
71	Cyprus	1.994
72	Benin	1.998
73	Liberia	1.998
74	Oman	2.016
75	Kazakhstan	2.019
76	Ecuador	2.020
77	Kosovo	2.022
78	Nepal	2.026



121	Djibouti	2.292
122	Tajikistan	2.293
123	Mauritania	2.295
124	Kyrgyz Republic	2.297
125	Thailand	2.312
126	South Africa	2.316
127	Zimbabwe	2.322
128	Rwanda	2.323
129	Saudi Arabia	2.338
130	Cameroon	2.356
131	Kenya	2.379
132	Bahrain	2.398
133	Iran	2.411
134	Azerbaijan	2.450
135	Eritrea	2.460
136	Chad	2.464
137	Mali	2.489
138	Burundi	2.500
139	Philippines	2.511
140	Mexico	2.557
141	India	2.566
142	Egypt	2.574
143	Venezuela	2.651
144	Israel	2.656
145	Turkey	2.710
146	Lebanon	2.752
147	Colombia	2.764
148	Palestine	2.832
149	Nigeria	2.877
150	North Korea	2.944
151	Russia	3.079
152	Democratic Republic of the Congo	3.112
153	Pakistan	3.145
154	Libya	3.200
155	Sudan	3.269
156	Ukraine	3.287
157	Central African Republic	3.354
158	Yemen	3.399
159	Somalia	3.414
160	Afghanistan	3.538
161	Iraq	3.570
162	South Sudan	3.593
163	Syria	3.806

REGIONAL OVERVIEW

Year-on-year changes in peacefulness at the regional level are highlighted in figure 1.1. The biggest improvement in peacefulness occurred in the Central America and Caribbean region, with an average improvement of two per cent. The other two regions in the Americas also recorded improvements in peacefulness, while all other regions either deteriorated or remained approximately the same.

The most significant deterioration by far occurred in MENA. The average GPI country score deteriorated by over six per cent, with the largest deteriorations occurring in Yemen (15.1 per cent), Bahrain (7.2 per cent) and Libya (6.5 per cent).

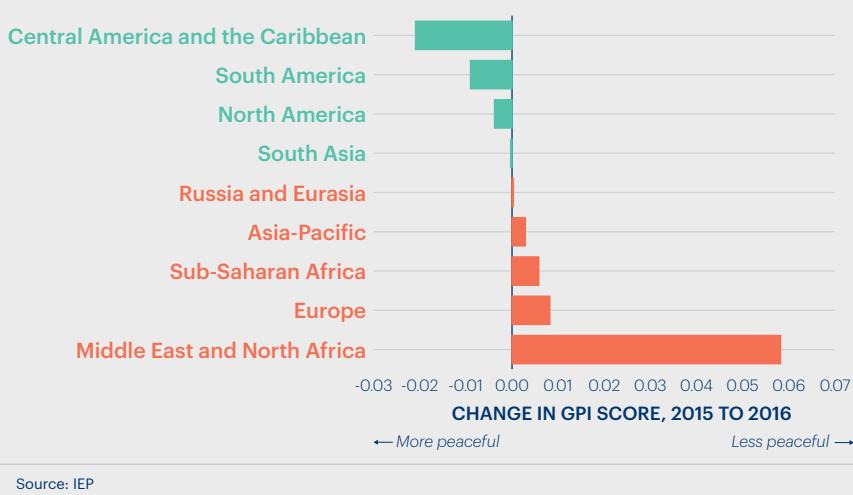
EUROPE

Europe is once again the most peaceful geographical region in the world according to the GPI. It now accounts for six of the top seven places in the global rankings. The highest-ranking countries in the world remain unchanged from 2015: Iceland, Denmark and Austria. The largest improvement in the region was recorded by Portugal, which built on gains last year to rise nine places to fifth globally. This reflects continuing improvements in the context of the country's gradual return to political normality following its EU/

IMF economic and financial adjustment process. Notwithstanding the difficulties faced by the left-of-centre government elected in 2015, Portugal has recorded a second year of improvements across numerous dimensions, notably the *likelihood of violent demonstrations*, but also the *Political Terror Scale* and *political instability*. Among the other Eurozone countries to have exited similar bailout arrangements, there were only minor movements: Ireland roughly maintained its score while Spain and Cyprus saw slight deteriorations. Cyprus maintained its rank of 71st in the index. The one country that has yet to exit its bailout arrangement, Greece, slipped back in this year's index, amid continuing difficulties with implementing the terms of the bailout, compounded by the emergence of new risks of social unrest associated with Europe's migration crisis. Having jumped 22 places in 2015, Greece dropped four places globally to 82nd this year.

FIGURE 1.1 GPI OVERALL SCORE CHANGE BY REGION, 2015 – 2016

The Middle East and North Africa continued to deteriorate in 2016, while Central America and the Caribbean recorded the largest improvement.



Regionally, Greece lies in 34th place out of the 36 European countries, ahead of only the Former Yugoslav Republic of Macedonia (94th globally) and Turkey (145th). Macedonia dropped 15 places between 2015 and 2016—the biggest slide down the global rankings for a European country, followed by Kosovo. However, Turkey saw the largest deterioration in score for the region. Notwithstanding the November 2015 terrorist attacks in Paris, improvements related to violent demonstrations and levels of policing more than offset deteriorations in terrorism-related indicators for France. The country fell by one place in the ranking (to 46th). Belgium, another European country to be affected by high-profile terrorist attacks in recent months, dropped down the global rankings by three places (to

18th), driven by a deterioration on the *impact of terrorism* score and a sharp worsening of the *level of perceived criminality in society*. The scores of two of the largest European countries, France and the UK, are held down by very low rankings on external peace indicators, in line with their repeated military engagements in recent years.

COUNTRY	OVERALL RANK	OVERALL SCORE	CHANGE IN SCORE	REGIONAL RANK
Iceland	1	1.192	-0.006	1
Denmark	2	1.246	0.023	2
Austria	3	1.278	-0.005	3
Portugal	5	1.356	-0.064	4
Czech Republic	6	1.360	-0.058	5
Switzerland	7	1.370	-0.006	6
Slovenia	10	1.408	-0.018	7
Finland	11	1.429	0.020	8
Ireland	12	1.433	0.004	9
Sweden	14	1.461	0.011	10
Germany	16	1.486	-0.019	11
Norway	17	1.500	-0.018	12
Belgium	18	1.528	0.035	13
Hungary	19	1.534	-0.011	14
Netherlands	21	1.541	0.013	15
Poland	22	1.557	0.032	16
Slovakia	24	1.603	0.033	17
Spain	25	1.604	0.027	18
Croatia	26	1.633	0.002	19
Bulgaria	29	1.646	-0.023	20
Romania	31	1.649	0.010	21
Latvia	32	1.680	-0.017	22
Estonia	36	1.732	-0.018	23
Lithuania	37	1.735	0.006	24
Italy	39	1.774	0.004	25
France	46	1.829	0.014	26
United Kingdom	47	1.830	-0.016	27
Serbia	48	1.834	-0.013	28
Albania	54	1.867	-0.016	29
Montenegro	57	1.884	-0.007	30
Bosnia and Herzegovina	60	1.915	-0.004	31
Cyprus	71	1.994	0.016	32
Kosovo	77	2.022	0.035	33
Greece	82	2.044	0.019	34
Macedonia (FYR)	94	2.092	0.042	35
Turkey	145	2.710	0.090	36
REGIONAL AVERAGE		1.660		

NORTH AMERICA

The North America region score remains almost as it was in 2015, as a very minor deterioration in the score for Canada was offset by a similar improvement in the US. North America remains the second most peaceful region in the 2016 GPI. The past year was a mildly encouraging one for the US. The country was instrumental in driving a multilateral deal to restrict Iran's use of nuclear material to peaceful purposes and in the lifting of sanctions that followed. Further diplomatic progress was made with Cuba, another country historically considered an enemy by the US government. However, US involvement in the armed conflict against ISIL escalated, with thousands of airstrikes conducted in Islamic State-held territory. This situation is reflected in a deterioration in the score for *number, duration and role in external conflicts*. Relations between the US and Russia have also deteriorated further, with Russia's support for the Syrian government led by President Bashar al-Assad putting the former Cold War enemies on opposite sides of that conflict. Closing the US detention facility in Guantanamo Bay in Cuba remains an objective of the president, Barack Obama, before he leaves office. Although Canada's score deteriorated in this edition, driven by ongoing conflict and militarisation scores, the year actually saw developments that ought to enable a future improvement in its score. The election in October 2015 of a Liberal Party government will result in the acceptance of thousands of Syrian refugees, greater spending on humanitarian aid, and the withdrawal of combat troops from missions in Iraq and Syria. These decisions will all be beneficial for the country's score.

COUNTRY	OVERALL RANK	OVERALL SCORE	CHANGE IN SCORE	REGIONAL RANK
Canada	8	1.388	0.014	1
United States of America	103	2.154	-0.012	2
REGIONAL AVERAGE				1.771

“

The largest improvement in the region was recorded by Portugal.

ASIA-PACIFIC

The Asia-Pacific region ranked third after Europe and North America in the GPI. The level of peace in the region has remained largely unchanged since 2015. However, a number of countries have improved their score this year including Indonesia, Timor-Leste, Myanmar and Thailand. Heightened tensions in the South China Sea will continue to impact external relations between the three main nations concerned, China, Vietnam and the Philippines. Nevertheless, although the likelihood of further military skirmishes in the disputed waters is high, a large-scale military engagement remains unlikely. *Political instability* has hampered peace in Cambodia. The rapprochement appears to have ended between the ruling Cambodian People's Party and the opposition Cambodia National Rescue Party, which may influence internal conflict indicators in the coming year. The likelihood of mass anti-government protests is remote but the number of people unjustifiably detained will no doubt continue to increase.

Thailand's modest improvement in its score has been driven largely by its efforts to improve *relations with neighbouring countries*, particularly Cambodia, an age-old rival. Domestic peace in Thailand however, is somewhat forced as the military rule junta has strongly cracked down on any form of dissidence and many anti-junta protesters and supporters of the previous populist government have been arrested over the past year. Following the successful completion of peaceful elections, Myanmar made significant progress in reducing *political instability*. Furthermore, the signing of a multiparty ceasefire in October 2015 means that the risk of conflict is now more contained in smaller parts of the country's border areas. As a result, the country has risen 12 places in the global rankings. New Zealand, Japan and Australia have remained the most peaceful countries in the region.

TABLE 1.3 ASIA-PACIFIC RANKINGS

COUNTRY	OVERALL RANK	OVERALL SCORE	CHANGE IN SCORE	REGIONAL RANK
New Zealand	4	1.287	-0.019	1
Japan	9	1.395	0.031	2
Australia	15	1.465	0.025	3
Singapore	20	1.535	-0.007	4
Malaysia	30	1.648	0.025	5
Taiwan	41	1.787	0.020	6
Indonesia	42	1.799	-0.006	7
Mongolia	50	1.838	0.042	8
Laos	52	1.852	0.029	9
South Korea	53	1.858	0.026	10
Timor-Leste	56	1.879	-0.013	11
Vietnam	59	1.906	0.007	12
Papua New Guinea	99	2.143	0.031	13
Cambodia	104	2.161	-0.005	14
Myanmar	115	2.256	-0.035	15
China	120	2.288	-0.001	16
Thailand	125	2.312	-0.049	17
Philippines	139	2.511	-0.010	18
North Korea	150	2.944	-0.011	19
REGIONAL AVERAGE		1.940		

CENTRAL AMERICA AND THE CARIBBEAN

Despite the region's myriad security-related issues, the average score in Central America and the Caribbean improved sufficiently for it to overtake South America in the regional rankings and to position itself slightly above the global average in 2016, scoring fourth place overall. The region's top three performers are again Costa Rica, Panama and Nicaragua. Panama had the greatest improvement in the score within the region and jumped 24 places in the global rankings due to a lower *likelihood of violent demonstrations* and *political instability* in 2015, which followed elections in 2014. All three top performers are characterised by low levels of militarisation. Costa Rica in particular has no standing armed forces, although border disputes have occasionally arisen. The only two countries which rose in the regional rankings were Trinidad and Tobago and El Salvador, owing to a reduction in *the number of jailed population per 100,000 people*, and an improvement in the *Political Terror Scale*, respectively. Despite this, both countries still face significant challenges for peace, particularly El Salvador, which has suffered from an escalation in urban violence ever since a truce between rival *mara* gangs broke down in 2014. Honduras also faces similar gang-related issues. Cuba, Haiti, Jamaica and Guatemala all fell in the regional rankings even though all of them—except for Guatemala—saw improvements in their score, particularly in the indicators relating to internal peace. Finally, Mexico remains at the bottom of the regional ranking as a result of a mild score deterioration driven by a rising military and security presence and the increased number of displaced people resulting from the ongoing drugs war. In broad terms, Central America and the Caribbean will continue to benefit from the absence of intra-regional conflicts, and minimal *nuclear and heavy weapons capabilities* among them, although domestic security issues—mainly in the form of crime—will remain the region's biggest obstacle to peace.

TABLE 1.4 CENTRAL AMERICA & THE CARIBBEAN RANKINGS

COUNTRY	OVERALL RANK	OVERALL SCORE	CHANGE IN SCORE	REGIONAL RANK
Costa Rica	33	1.699	0.000	1
Panama	49	1.837	-0.069	2
Nicaragua	69	1.975	-0.013	3
Trinidad and Tobago	84	2.056	-0.026	4
Cuba	85	2.057	-0.006	5
Haiti	89	2.066	-0.011	6
Jamaica	92	2.091	-0.009	7
Dominican Republic	99	2.143	0.005	8
Honduras	111	2.237	0.004	9
El Salvador	111	2.237	-0.024	9
Guatemala	117	2.270	0.021	11
Mexico	140	2.557	0.003	12
REGIONAL AVERAGE		2.102		

SOUTH AMERICA

Despite a slight improvement in the overall score since last year, South America as a region dropped one notch in the global rankings—now fifth out of nine regional groupings, overtaken by Central America and the Caribbean, albeit by a very narrow margin. In the past year, South America has continued to benefit from low levels of international conflict and militarisation, given the lack of any significant external conflicts affecting the region and relatively low spending on developing heavy weapons or financing large armies. Relations among neighbouring countries are mostly peaceful, despite the odd and periodical tension between Venezuela and neighbouring Colombia and Guyana. This year, Venezuela's score for *relations with neighbouring countries* deteriorated as tension escalated. This situation reflects domestic political attempts to boost nationalism amid deep economic and political difficulties for the government of President Maduro, which is fighting for survival. There are also historical border tensions, channelled via the International Court of Justice, between Chile and Peru and Chile and Bolivia, regarding gaining sea access for the latter. In terms of internal peace, the region overall performs below the global average in spite of slight improvements in most countries. Argentina and Venezuela and, to a lesser extent, Guyana and Peru are the exceptions. There has been an increase in persecution of political dissidents in Argentina, under the government of Cristina Fernández de Kirchner, as well as in Venezuela. On 10 September 2015, Leopoldo López, a Venezuelan opposition leader, was sentenced to 13 years and nine months in prison for public incitement to violence. For both countries this situation is reflected by a weaker performance on the *Political Terror Scale*. Greater *political instability* in Venezuela has also contributed to this year's score deterioration. Overall, the regional rankings continue to be led by Chile and Uruguay, which rank 27th and 35th, respectively, out of 163 analysed countries. Venezuela, in 143th position, and Colombia, in 147th, close the regional classification.

TABLE 1.5 SOUTH AMERICA RANKINGS

COUNTRY	OVERALL RANK	OVERALL SCORE	CHANGE IN SCORE	REGIONAL RANK
Chile	27	1.635	-0.005	1
Uruguay	35	1.726	-0.031	2
Argentina	67	1.957	0.006	3
Ecuador	76	2.020	-0.011	4
Paraguay	80	2.037	-0.020	5
Bolivia	81	2.038	-0.015	6
Peru	85	2.057	-0.014	7
Guyana	95	2.105	0.003	8
Brazil	105	2.176	0.007	9
Venezuela	143	2.651	0.034	10
Colombia	147	2.764	-0.012	11
REGIONAL AVERAGE		2.106		

SUB-SAHARAN AFRICA

Sub-Saharan Africa's average score deteriorated slightly, although it continues to rank ahead of Russia and Eurasia, South Asia, and MENA. The deterioration of the average score masks sharp variations in country performance. For example, stronger *relations with neighbouring countries*—driven by efforts to bolster regional security co-operation—helped improve the score of countries such as Chad, Mauritania and Niger. Unfortunately though, the threat posed by Islamist terrorist groups has continued to weigh on the score of many countries in the Sahel and West African region. In other countries, the holding of elections has driven improvements in overall scores. Most notably, Nigeria experienced its first democratic transition following the presidential election, reflected in an improvement in its score on *political instability*. Guinea and the Central African Republic (CAR) also saw their scores improve as political stability strengthened following the holding of elections, although the CAR remains among the worst-performing countries in the region. South Africa was a top-five improver globally—though it still ranks a lowly 126th worldwide—driven by an improvement in the *Political Terror Scale*, as well as a reduction in arms trade and military spending. After falling 42 places in the 2015 GPI, Djibouti's rank has fallen a further 19 places in the 2016 index as social unrest and resentment against the government's authoritarian rule have continued to intensify in the run-up to the April 2016 presidential election. Burundi also performed poorly as the country slid towards civil war following the incumbent president's controversial efforts to cling onto power by seeking a third term in office, which his opponents claimed was unconstitutional. Burkina Faso saw its score deteriorate too, as insecurity and crime levels deteriorated as a result of the turbulent political transition following the ousting of the country's long-time president in late 2014. Côte d'Ivoire was one of the best performers in the 2015 GPI but fell back in the latest index as the fragile security situation in the sub-region was undermined by the March 2016 terrorist attack in Grand-Bassam on an Ivorian seaside resort.



South America has continued to benefit from low levels of international conflict and militarisation.

TABLE 1.6 SUB-SAHARAN AFRICA RANKINGS

COUNTRY	OVERALL RANK	OVERALL SCORE	CHANGE IN SCORE	REGIONAL RANK
Mauritius	23	1.559	0.023	1
Botswana	28	1.639	-0.018	2
Madagascar	38	1.763	-0.015	3
Zambia	40	1.783	-0.020	4
Sierra Leone	43	1.805	-0.012	5
Ghana	44	1.809	0.001	6
Malawi	45	1.817	0.056	7
Namibia	55	1.873	-0.002	8
Tanzania	58	1.899	0.001	9
Equatorial Guinea	62	1.940	-0.015	10
Lesotho	63	1.941	0.014	11
Togo	66	1.954	-0.004	12
Mozambique	68	1.963	0.002	13
Senegal	70	1.978	0.039	14
Benin	72	1.998	0.010	15
Liberia	72	1.998	0.023	15
Gabon	79	2.033	0.027	17
Burkina Faso	88	2.063	0.076	18
Swaziland	90	2.074	-0.017	19
The Gambia	92	2.091	-0.020	20
Angola	98	2.140	0.028	21
Uganda	101	2.148	-0.040	22
Guinea	101	2.148	-0.030	22
Niger	113	2.239	-0.032	24
Republic of the Congo	114	2.249	0.001	25
Guinea-Bissau	116	2.264	-0.003	26
Cote d'Ivoire	118	2.279	0.040	27
Ethiopia	119	2.284	0.002	28
Djibouti	121	2.292	0.054	29
Mauritania	123	2.295	-0.044	30
South Africa	126	2.316	-0.047	31
Zimbabwe	127	2.322	0.009	32
Rwanda	128	2.323	-0.009	33
Cameroon	130	2.356	0.011	34
Kenya	131	2.379	0.007	35
Eritrea	135	2.460	0.022	36
Chad	136	2.464	-0.025	37
Mali	137	2.489	0.011	38
Burundi	138	2.500	0.065	39
Nigeria	149	2.877	-0.022	40
Democratic Republic of the Congo	152	3.112	-0.001	41
Central African Republic	157	3.354	-0.024	42
Somalia	159	3.414	0.032	43
South Sudan	162	3.593	0.001	44
REGIONAL AVERAGE		2.234		

RUSSIA AND EURASIA

Russia and Eurasia's position in the global ranking remains unchanged in the 2016 GPI, with the third worst regional score. The biggest improvements in score within the region were registered by Belarus, Kazakhstan and Uzbekistan. The largest deteriorations in score were registered by Tajikistan and Ukraine. In Tajikistan this reflects the rise in the risk of internal conflict, driven by the increasingly authoritarian rule of the president, Emomali Rahmon, and a serious economic downturn. In September 2015, a major conflict within the elite led the government to accuse the deputy minister of defence, Abdulhalim Nazarzoda, of treason. A firefight between government troops and his supporters led to the death of at least 45 people. For some countries, the aggregate scores masked divergent trends on different metrics. In the case of Ukraine, for example, a second ceasefire agreement signed in February 2015 led to a significant reduction in fighting in the conflict in the east of the country. Nevertheless, its score was dragged down by a sharp rise in militarisation. In the case of Russia, while hostilities were dampened down in the Donbas region of Ukraine, in September their air force launched a major bombing campaign in Syria. The five-and-a-half-month campaign—ostensibly aimed at combating Islamic State, but largely serving to shore up the regime of President Bashar al-Assad—was the country's first military engagement outside the post-Soviet space since the dissolution of the Soviet Union. The campaign led to a serious diplomatic standoff with Turkey in November, after the latter downed a Russian attack aircraft it claimed had violated Turkish airspace. In March 2016 President Vladimir Putin declared that Russia would withdraw the “main part” of its forces, as its principal military objectives had been met. However, with peace negotiations unlikely to yield a lasting settlement, lower-level Russian military involvement may continue.

TABLE 1.7 RUSSIA & EURASIA RANKINGS

COUNTRY	OVERALL RANK	OVERALL SCORE	CHANGE IN SCORE	REGIONAL RANK
Moldova	65	1.953	-0.002	1
Kazakhstan	75	2.019	-0.028	2
Georgia	85	2.057	-0.015	3
Belarus	106	2.202	-0.035	4
Turkmenistan	106	2.202	0.000	4
Uzbekistan	109	2.216	-0.028	6
Armenia	110	2.218	-0.014	7
Tajikistan	122	2.293	0.021	8
Kyrgyz Republic	124	2.297	-0.003	9
Azerbaijan	134	2.450	0.006	10
Russia	151	3.079	-0.007	11
Ukraine	156	3.287	0.078	12
REGIONAL AVERAGE		2.356		

SOUTH ASIA

South Asia's position remained unchanged at eighth out of the nine regions. Overall, the individual overall scores of Afghanistan, Nepal and India deteriorated, while for Bhutan, Sri Lanka and Pakistan, scores improved modestly. Internal security concerns were heightened in Bangladesh and Nepal owing to anti-government protests that have led to an increased number of detainees. In terms of regional rank, most countries have remained unchanged, with Bhutan remaining the most peaceful and Afghanistan the least. Following the withdrawal of most international forces from Afghanistan, the security situation has remained volatile. Domestic security forces have struggled to contain militant violence, which has posed threats beyond Afghan borders. This has caused its *relations with neighbouring countries*, particularly Pakistan, to deteriorate. Despite the Pakistani government's crackdown on domestic terrorist activities by Islamist militant groups, the country has remained hostage to organised conflict, with rising numbers of casualties over the past year. The influence of the Taliban from Afghanistan has been particularly strong. As a result, Pakistan remains second from the bottom in South Asia. India's scores for ongoing domestic and international conflict and militarisation have deteriorated slightly. The country remains vulnerable to acts of terror and security threats at its shared border with Pakistan. As such, the number of deaths caused by externally organised terror strikes has risen over the year. Sri Lanka saw the greatest upswing in its score in the region. The country successfully conducted two sets of elections in 2015—presidential in January and parliamentary in August which brought a reformist administration with a strong mandate. The country's increased peacefulness is also due to better *relations with neighbouring countries*, particularly India.

TABLE 1.8 SOUTH ASIA RANKINGS				
COUNTRY	OVERALL RANK	OVERALL SCORE	CHANGE IN SCORE	REGIONAL RANK
Bhutan	13	1.445	-0.033	1
Nepal	78	2.026	0.058	2
Bangladesh	83	2.045	0.003	3
Sri Lanka	97	2.133	-0.053	4
India	141	2.566	0.006	5
Pakistan	153	3.145	-0.001	6
Afghanistan	160	3.538	0.010	7
REGIONAL AVERAGE	2.414			

MIDDLE EAST AND NORTH AFRICA

The Middle East and North Africa region, which was already ranked the lowest in the GPI, saw the biggest deterioration in its score in 2015, as the civil wars in Syria and Yemen deepened and led to increased external intervention. Yemen, whose long-standing political crisis exploded into outright civil war in early 2015, witnessed a large slump, driven by the rising casualty rate, a huge increase in refugees and internally displaced people, and worsening terror attacks by both al-Qaeda in the Arabian

Peninsula and ISIL. Yemen's travails have also affected the rankings of some of the country's neighbours; for example, the UAE's military intervention in the war, which included dispatching ground troops to southern Yemen, has affected that country's scores for ongoing domestic and international conflict and militarisation. The growing role of foreign powers in Syria's debilitating civil war, which has now led to the deaths of between 250,000 and 470,000 people, has had an impact, with, most notably, Jordan launching waves of air strikes in January 2015 after one of its pilots was captured and executed by the Islamic State. Likewise, despite its size, Bahrain has fully participated in both the Yemen and Syria campaigns, which has in turn resulted in an uptick in its military spending and driven its significant score deterioration. Besides intervening abroad however, governments are now having to respond to the growing domestic threat posed by ISIL as demonstrated by the poorer terrorism scores for Saudi Arabia, Libya, Tunisia and Egypt. The latter two experienced a plunge in foreign arrivals following terrorist attacks on tourist targets. Nevertheless, the regional trend is not universally negative: Sudan, Iran and Oman, saw improvements in their scores. In addition, improvements on the *Political Terror Scale* and financial contributions to *UN peacekeeping missions* helped Iran strengthen its score. Finally, despite the failure to progress peace efforts with the Palestinians, a slight alleviation in *political instability* and *military expenditure as a percentage of GDP* helped garner a small improvement in Israel's overall score.

TABLE 1.9 MIDDLE EAST & NORTH AFRICA RANKINGS

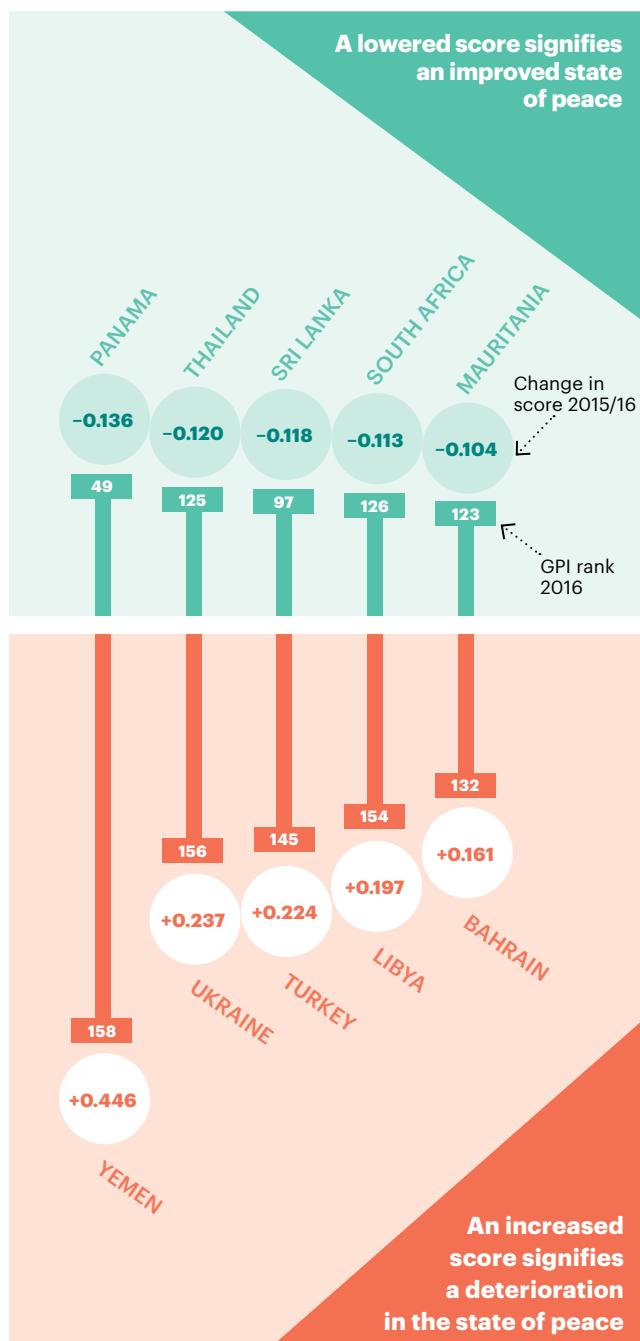
COUNTRY	OVERALL RANK	OVERALL SCORE	CHANGE IN SCORE	REGIONAL RANK
Qatar	34	1.716	-0.024	1
Kuwait	51	1.842	0.061	2
United Arab Emirates	61	1.931	0.017	3
Tunisia	64	1.949	-0.024	4
Oman	74	2.016	-0.028	5
Morocco	91	2.086	0.017	6
Jordan	96	2.127	0.024	7
Algeria	108	2.213	-0.024	8
Saudi Arabia	129	2.338	0.042	9
Bahrain	132	2.398	0.072	10
Iran	133	2.411	-0.032	11
Egypt	142	2.574	0.047	12
Israel	144	2.656	-0.037	13
Lebanon	146	2.752	-0.002	14
Palestine	148	2.832	-	15
Libya	154	3.200	0.065	16
Sudan	155	3.269	-0.024	17
Yemen	158	3.399	0.151	18
Iraq	161	3.570	0.006	19
Syria	163	3.806	0.011	20
REGIONAL AVERAGE	2.554			

RISERS & FALLERS

Panama recorded the largest score improvement in this year's GPI, rising 24 positions in the rankings to 49th. It was followed by Thailand, which rose nine positions (albeit to a still-low 125th). Sri Lanka was up by 18 places to 97th while South Africa jumped seven slots to 126th. Mauritania was the next best improver, gaining eight positions to 123rd. Across the top risers there was an improvement in internal peace, with indicators related to internal conflict improving in Mauritania, South Africa and Sri Lanka, and reduced *likelihood of violent demonstrations* in Panama, Sri Lanka and Thailand. However, notwithstanding increased levels of internal stability, in some cases this was not accompanied with a strengthening of democracy (Thailand, South Africa and Mauritania all deteriorated in the EIU Democracy Index). Finally, *military expenditure* fell in all five countries except Thailand, while *relations with neighbouring countries* improved in Sri Lanka and Thailand.

Ongoing troubles in MENA resulted in three out of the five main fallers coming from that region. Yemen had the largest drop in the score, falling nine positions to 158th as its civil war expanded into a regional conflict. Ukraine came in with the second largest deterioration and was down four positions to 156th due to a shaky truce between government and separatists. Turkey was the next worse performer, falling seven slots to 145th due to heightened conflict with its Kurdish population, deteriorated *relations with neighbouring countries* (mainly Russia) and increased *terrorism impact*. It was followed by Libya, down three places to 154th on account of persisting factionalism, terrorism and a rise in *perceptions of criminality*. Finally, Bahrain tumbled 23 positions on the index to 132nd due to worsening relations with Iran, a rising rate of incarceration and a deterioration in the *ease of access to small arms and light weapons*.

“ Across the top risers there was an improvement in internal peace, with indicators related to internal conflict improving in Mauritania, South Africa and Sri Lanka.





TOP FIVE NATIONAL IMPROVEMENTS IN PEACE

PANAMA

RANK 49**Change in score 2015/16** **-0.136****Change in rank 2015/16** 

Panama was the country that improved most in the rankings both in score and rank, with the main gain stemming from improvements in its domestic situation. This was driven by a reduction in the *likelihood of violent demonstrations* and to a lesser extent, *political instability* as well as an improved performance on the *Political Terror Scale*. There was also a corresponding decline in the *security officers and police rate* although the overall score for this indicator was still higher than the global average. A more stable political environment after the February 2014 elections contributed to this improvement in internal peace, as it has coincided with initially strong support for president Juan Carlos Varela, as well as large infrastructure projects that are currently sustaining fast growth. The country also appeared less militarised than in the previous year. There was a reduction in *military expenditure as a percentage of GDP* as well as in the *volume of imports of major conventional weapons*.

THAILAND

RANK 125**Change in score 2015/16** **-0.120****Change in rank 2015/16** 

Thailand had the second-highest absolute improvement in the 2016 GPI, although in relative terms it rose only nine places. Its principal gains were in terms of its *relations with neighbouring countries*—mainly Cambodia, with whom its relationship has been a source of friction in the past—as well as a reduction in the *likelihood of violent demonstrations*, the *level of violent crime*, and the *number of jailed population per 100,000 people*, although the latter remains among the highest in the world. Thailand experienced a military coup d'état in 2014, but a gradual return to normality following years of instability and mass demonstration has been a positive factor in explaining the country's overall improvement. However, this has come at the cost of an erosion of the Thailand's democratic institutions as it does not appear likely that the military will relinquish power anytime soon. Furthermore, the country has seen an increase in military spending as well as in the *volume of imports of major conventional weapons*, and remains at risk of terrorism.

SRI LANKA

RANK 97**Change in score 2015/16** **-0.118****Change in rank 2015/16** 

Sri Lanka saw strong gains in both internal and external peace, enabling it to jump up 18 positions in the rankings, the second-largest rank improvement overall. Improvements in *political instability*, *likelihood of violent demonstrations* and *number and duration of internal conflicts* all contributed to the enhancement in its domestic situation. Driving these trends was a strengthening of the country's democratic institutions during the administration of Maithripala Sirisena, who continues to make strides in combating corruption and reverse the authoritarianism of the previous administration. In addition, his government has continued to pursue a strategy of ethnic reconciliation following the end of the civil war in 2009. Sri Lanka has improved its ties with India, which is reflected in an improvement in its score for *relationships with neighbouring countries*. *Military expenditure* has also been cut as threats to internal stability gradually dissipate, but the country's *impact of terrorism* score deteriorated slightly.

SOUTH AFRICA

RANK 126**Change in score 2015/16** **-0.113****Change in rank 2015/16** 

South Africa's domestic situation improved strongly in 2015, lifting the overall score and pushing the country up seven places in the ranking. Improvements in the *intensity of organised internal conflict* and the *Political Terror Scale* were the main drivers of growing levels of internal peace, even though, in absolute terms, the scores for these indicators are weaker than the global average and the country still suffers from major institutional deficiencies that could hinder further consolidation of peace. Its overall rank of 126th is the lowest among the five biggest risers. There was some evidence of reduced militarisation, including reduced weapons imports and exports as well as lower *military expenditure*. Risk of underlying unrest remained high in 2015, and was exacerbated by the country's high crime rate which was also reflected in a rise in the *number of jailed population per 100,000 people*. Consolidation of power by the ruling ANC and a weak and mistrusted security apparatus will weigh on internal stability, which means the country may find it hard to build on its progress going forward.

MAURITANIA

RANK 123

Change in score 2015/16

-0.104

Change in rank 2015/16

▲ 8

Mauritania's improvements in its domestic situation contributed strongly to the gains in the overall score, but it was the improvement in ongoing conflict and militarisation scores that was the main factor. Mauritania has been recovering from its own internal conflicts and has occasionally been affected by violent conflict in neighbouring countries, principally Mali. *Financial contributions to UN peacekeeping missions* was the biggest contributor to the improvement in its score. There has also been a reduction in the *deaths from internal conflict* as well as in the *number and duration of internal conflicts* due to greater efforts by the government to tackle extremism. Despite its heightened role in regional security, the country became less militarised: *military expenditure fell*, as did the *number of armed services personnel*, although this was partly offset by a rise in *weapons imports*. The *Political Terror Scale* also deteriorated as the government of Mohamed Ould Abdel Aziz cemented his authority.

TOP FIVE NATIONAL DETERIORATIONS IN PEACE

YEMEN

RANK 158

Change in score 2015/16

+0.446

Change in rank 2015/16

▼ 9

Yemen suffered by far the steepest deterioration in its GPI score. In early 2015, its ongoing civil war escalated into a regional conflict due to the intervention of a coalition of Arab states led by Saudi Arabia and including almost every other Gulf state. This resulted in a campaign of airstrikes and ground operations and, coupled with the existing conflict between domestic factions, has created a major humanitarian crisis. The result has been a massive rise in the *number of refugees and internally displaced people* as well as a rise in *deaths from internal conflict*. Societal safety and security factors, including *perceptions of criminality, likelihood of violent demonstrations* and the *Political Terror Scale*, have also deteriorated significantly. The presence and participation of al-Qaeda and ISIL affiliates further increases the risk of terrorism and instability in the future.

UKRAINE

RANK 156

Change in score 2015/16

+0.237

Change in rank 2015/16

▼ 4

Ukraine's GPI score deteriorated further in 2015 on account of the continuation of the conflict with pro-Russian separatists in the Donbas region that began in 2014. On the positive side, there were greater efforts to end the fighting, notably after the Minsk II agreement in February 2015, even though skirmishes are a regular occurrence. A lasting settlement appears elusive, however, owing to a reluctance to implement the peace deal from both the Russian and Ukrainian sides. Most indicators relating to domestic conflict deteriorated in 2015, as did the *Political Terror Scale*. The country also became more militarised: *military expenditure as a share of GDP* was up as were *weapons exports* and the *armed services personnel rate*. Ukraine's internal stability also remains a cause for concern given slow progress on tackling corruption and in reforming state institutions.

TURKEY

RANK 145

Change in score 2015/16

+0.224

Change in rank 2015/16

▼ 7

In 2015 Turkey suffered from a deepening of its internal security woes, a continued hard-line approach by the government of Recep Tayyip Erdoğan and spillovers from the conflict in neighbouring Syria. The main trigger for the deterioration in the domestic situation was the resurgence of conflict between the state and the Kurdistan Workers' Party (PKK), as well as a rise in terrorist activity, mostly on the part of ISIL. The intensity of and the number of deaths from internal conflict have both deteriorated. Erdoğan's tough stance against internal dissent has resulted in an increase in the *number of jailed population* as well as a rise in the *number of security officers and police*. Turkey's *relations with neighbouring countries* also deteriorated in 2015 on account of frictions with Russia after its Syrian intervention. Turkey shot down a Russian attack aircraft which allegedly strayed into its airspace in November 2015. It has also been at odds with the EU over a solution to the refugee crisis. Although elections in 2015 consolidated Erdoğan's authority, the excessive concentration of power in his hands, together with the numerous internal and external security threats, provides highly unpredictable prospects for sustained peace.

LIBYA

RANK 154

Change in score 2015/16

+0.197

Change in rank 2015/16

▼ 3

Libya remains mired in the fallout from the 2011 NATO intervention which, despite successful in its initial military aims, left the country vulnerable to factionalism and infiltration by terrorist groups. Governability had been rendered ineffective as a result of warring factions that set up separate governments in the eastern and western halves of the country. An additional threat to peace is the presence of ISIL, among other jihadist groups, which has taken advantage of the post-intervention chaos to establish a foothold in the country. It is believed that ISIL forces in Libya are the strongest outside of Syria and Iraq, and the ineffectiveness of either existing government in combating them represents a major threat to peace. A high *level of violent crime* has been a major drag on the internal and overall scores, as has been a rise in the *Political Terror Scale* and, to a lesser extent, *political instability*. Meanwhile, the scores for militarisation have deteriorated due to the sharp rise in *military expenditure* and *weapons imports*, along with a reduction in *financial contributions to UN peacekeeping missions*.

“

Yemen suffered by far the steepest deterioration in its GPI score.

BAHRAIN

RANK 132

Change in score 2015/16

+0.161

Change in rank 2015/16

▼ 23

Bahrain fell 23 positions in the overall ranking due to a deterioration in ongoing conflict and militarisation scores. This was driven by its participation in the Saudi-led coalition in Yemen; the country has contributed both air and ground forces to the operation, which likely contributed to its increasing *military expenditure* and *weapons imports*. At the same time, a downgrade of diplomatic ties with Iran explains a deterioration in the score for *relations with neighbouring countries*. The domestic situation also deteriorated as a result of a continuing crackdown by the government of the king, Hamad bin Isa al-Khalifa, against dissenters—some of whom have undertaken peaceful opposition, while others have employed violence. As part of this crackdown, the *number of jailed population* has increased. Meanwhile, the *ease of access to small arms* has risen, which could be a prelude to greater internal instability. Notwithstanding the monarchy's hard-line stance, it has attempted to present itself as a moderate and reformist institution, although it is still unclear (and unlikely) that this will translate into an improvement in its domestic situation.

GPI DOMAIN & INDICATOR

ANNUAL CHANGES

The world became slightly less peaceful in 2016, with the average country GPI score deteriorating by 0.53 per cent. This is the second straight year that the average GPI score has slightly deteriorated, with the average levels of peacefulness now very close to its low point, which was reached in 2012.

The world is now less peaceful than it was in 2008, as shown in figure 1.2, with year-on-year levels of peacefulness having declined in five out of the last eight years. Given the increasing levels of terrorism and large population displacement caused by internal conflict, this trend is likely to continue into at least the near future.

The deterioration in peacefulness in 2016 was not evenly distributed. In fact, more countries saw improvements in peace than deteriorations, with 81 experiencing improvements compared to the prior year, against 79 which became less peaceful. However, the average deterioration in peacefulness was larger than the average improvement, with 11 countries having

FIGURE 1.2 GPI OVERALL SCORE TREND AND YEAR-ON-YEAR PERCENTAGE CHANGE, 2008-2016

The world became less peaceful in 2016, and is now considerably less peaceful than in 2008.

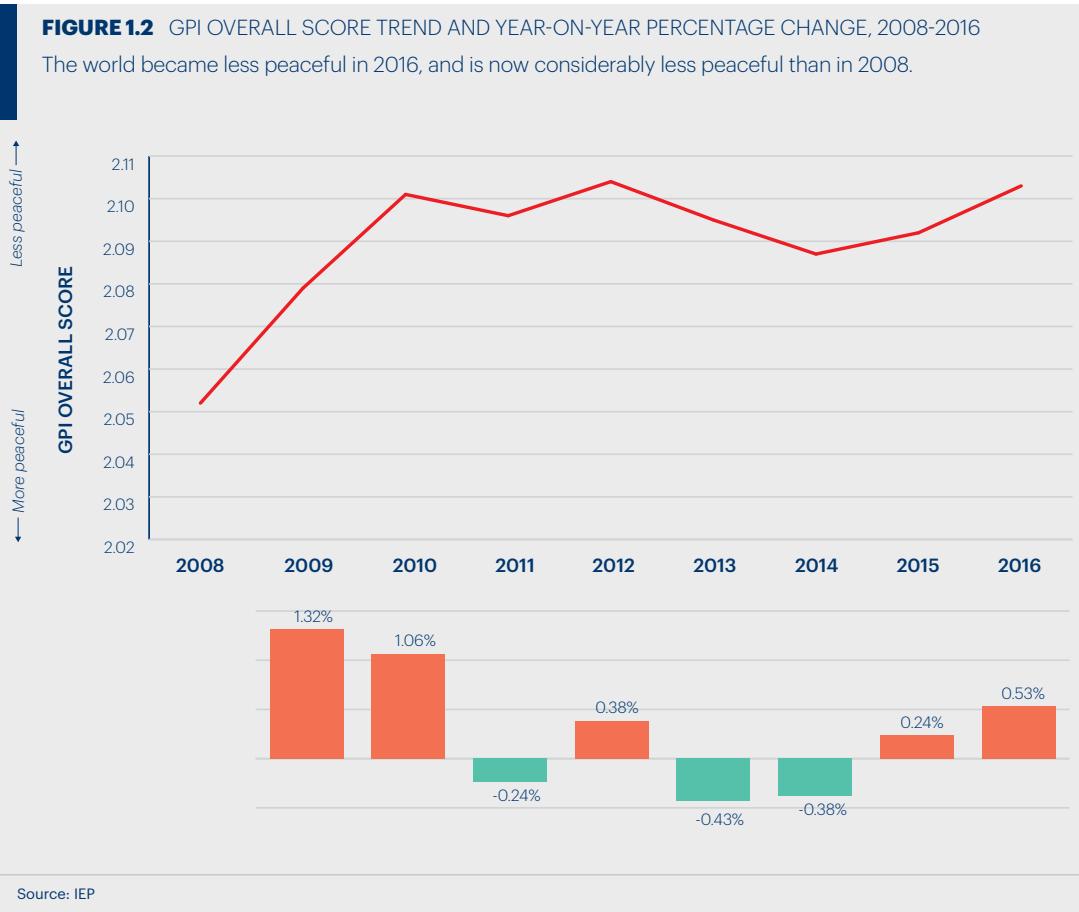
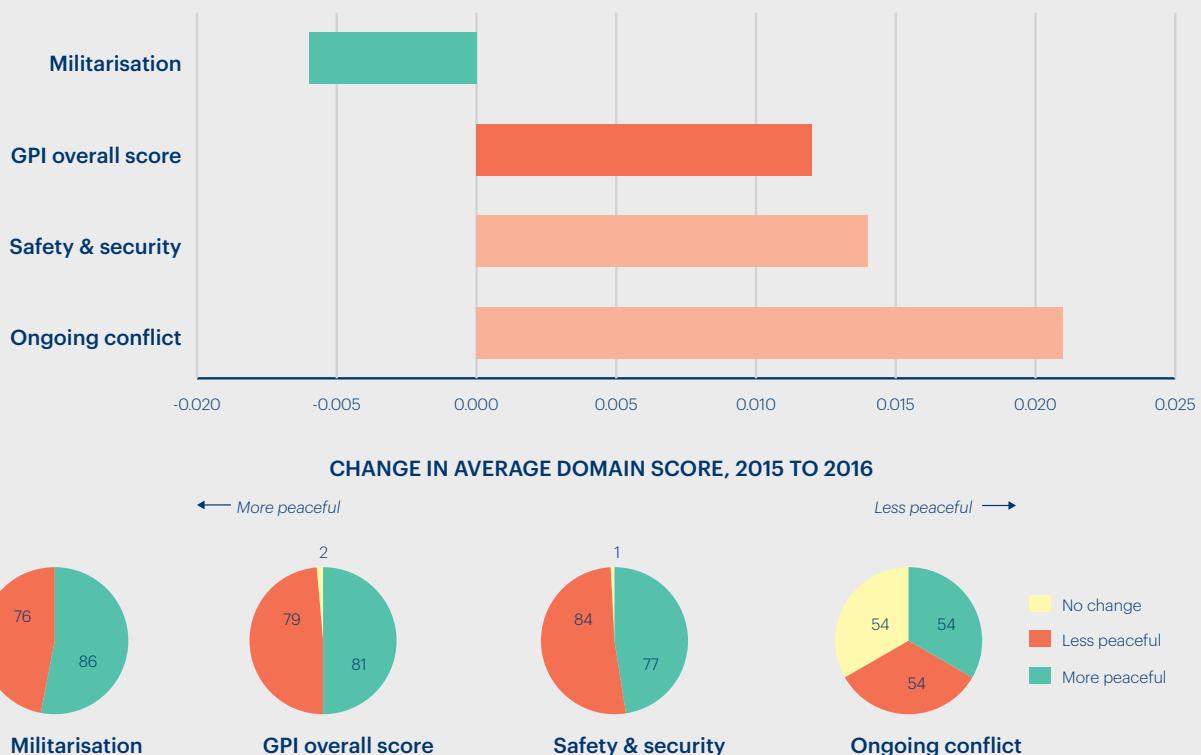


FIGURE 1.3 GPI YEAR-ON-YEAR SCORE CHANGE AND COUNTRY CHANGES BY DOMAIN, 2015 –2016

The ongoing conflict and societal safety and security domains both deteriorated on average, however, militarisation improved from 2015 to 2016.



deteriorations of greater than five per cent, compared to only four countries with improvements of greater than five per cent.

Looking at the three GPI domains of societal safety and security, ongoing conflict and militarisation, the average deterioration was also larger than the average improvement. The societal safety and security and ongoing conflict domains both recorded significant deteriorations, as shown in figure 1.3. Deteriorations on the ongoing conflict domain were largely concentrated in a small handful of countries, most notably Egypt and Turkey. Five of the ten largest deteriorations on this domain occurred in countries from the Middle East and North Africa region. Whilst the militarisation domain did improve, the size of the improvement was much smaller.

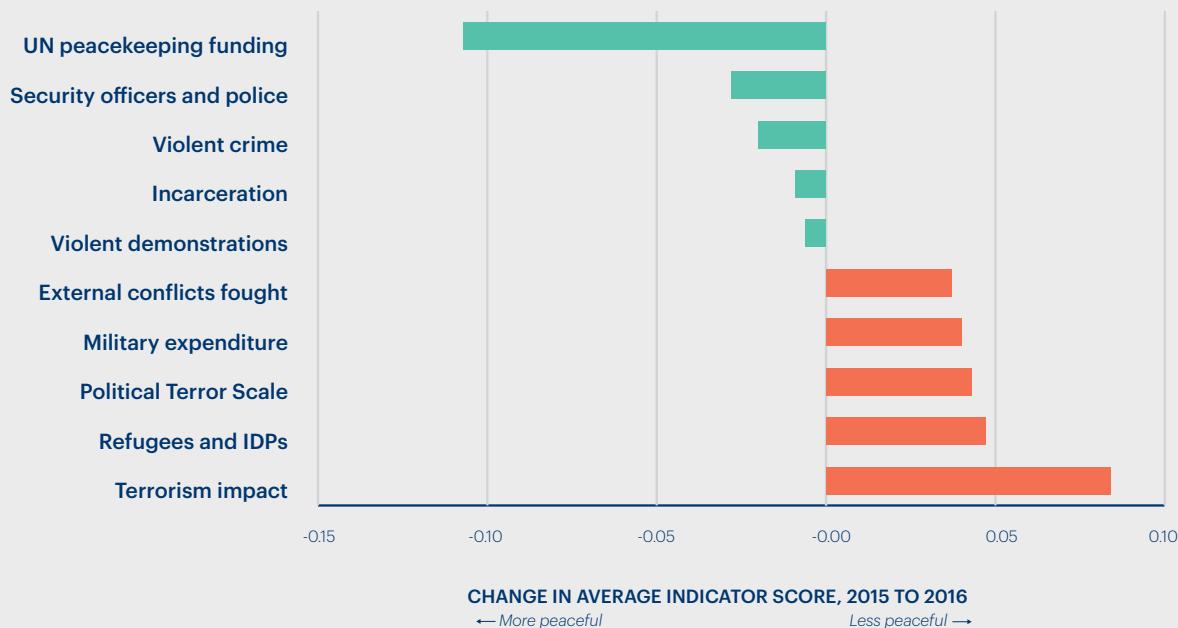
The largest single indicator deterioration was *terrorism impact*, which declined by nearly ten per cent, as shown in figure 1.4. The average *terrorism impact* indicator score has now deteriorated for four years in a row and is over 20 per cent worse than in 2008. Increases in terrorist activity occurred across a number of regions, with prominent attacks occurring in France, Belgium, Turkey and Pakistan in the last six months alone. In total, 77 countries recorded a deterioration in the *impact of terrorism*, and of the 25 largest increases, nine occurred in OECD countries.

The average *political instability* score deteriorated by just under five per cent, with large deteriorations in Djibouti, Guinea-Bissau and Poland. However, there was an improvement in Egypt, Nigeria and Sudan, three countries which have suffered from significant instability in recent years. The one other indicator to show a significant deterioration was the *Political Terror Scale*, with notable deteriorations in Greece, Argentina, South Korea, Ukraine and Yemen. However, the average *Political Terror Scale* score of 2.58 is still better than the worst year in 2009.

Both *military expenditure* and *external conflicts fought* deteriorated by around four per cent in 2016, highlighting an increase in external conflict. However, these deteriorations come on the back of several years of improvement in both indicators, particularly military expenditure. The deterioration in *external conflicts fought* was driven by countries becoming embroiled in already existing regional conflicts, with Jordan's strong military response to ISIL leading it to have the largest overall deterioration. In MENA, Bahrain, the United Arab Emirates and Saudi Arabia also became more strongly involved in regional conflict, whilst in sub-Saharan Africa, Niger, Chad, South Sudan and Cameroon experienced significant deteriorations in their *external conflicts fought* score.

FIGURE 1.4 FIVE LARGEST INDICATOR IMPROVEMENTS AND DETERIORATIONS, 2015 - 2016

Of the indicators that changed the most from 2015 to 2016, terrorism and political instability had the largest deteriorations, with only UN peacekeeping funding showing a large improvement.



Source: IEP

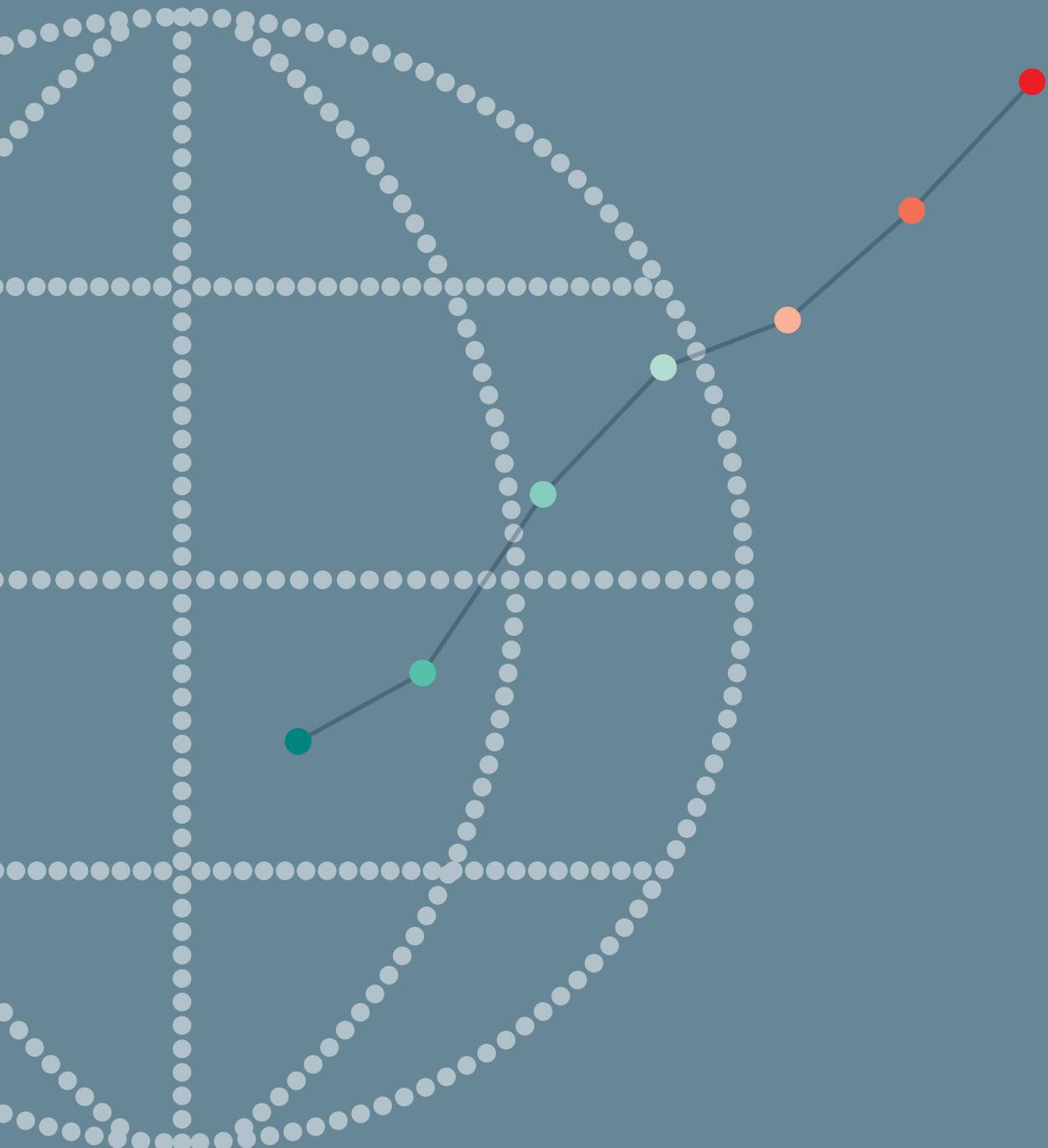
Of the indicators that improved the most, the largest single improvement occurred in the *UN peacekeeping funding* indicator, followed by the *security officers and police rate* indicator. According to the most recently available data, the *security officers and police rate* decreased in 37 countries and increased in just 24, with the largest reductions in police force size occurring in Kazakhstan, Moldova and France. The *security officers and police rate* also declined in the United States for the fourth consecutive year, with the country now scoring well below the global average on this indicator.

After several years of deterioration, the *violent demonstrations* and *violent crime* indicators both improved slightly. There was a

significant fall in the chance of violent demonstrations in Nigeria, Panama, Sudan and Uruguay, albeit with a concurrent increase in Yemen, Senegal, Nepal, Djibouti, Cote d'Ivoire and Burundi.

The *violent crime* indicator improved in 13 countries and deteriorated in just five, although the largest absolute change occurred in Libya, where the violent crime indicator moved from 3.5 to the maximum possible score of 5. Libya is now one of only 20 countries to have the worst possible score on the *violent crime* indicator.

TRENDS IN PEACE



THE WORLD HAS BECOME 2.44% LESS PEACEFUL SINCE 2008

What has been driving the change in peacefulness?



DETERIORATIONS

32,715

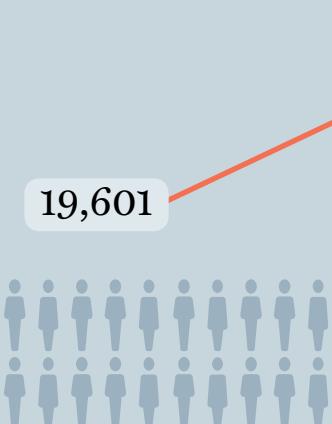
8,466

Deaths from terrorism increased by
286%



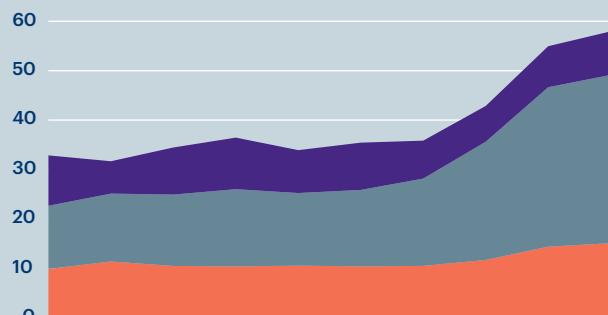
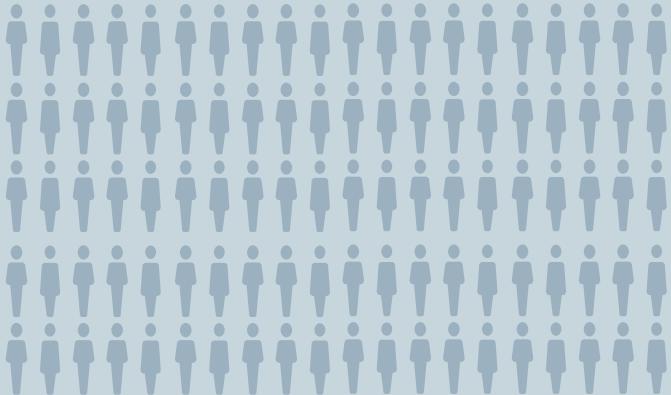
Deaths from terrorism increased by

286%



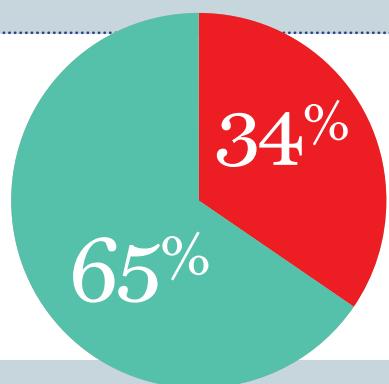
BATTLE DEATHS
INCREASED
OVER FIVE FOLD

101,406



In 2015, the UNHCR recorded over 57 million:

- refugees
- internally-displaced people,
- and others of concern



106 countries
reduced military expenditure as a % of GDP.

IMPROVEMENTS



The world has become less peaceful over the last decade, with a deterioration of 2.44 per cent in the average country GPI score.

- The fall in peacefulness was not evenly distributed around the globe. Seventy-seven countries actually became more peaceful over this period compared to 85 which deteriorated. Most of the deterioration in peacefulness was concentrated in four areas: the Middle East and North Africa, northern sub-Saharan Africa, Central America and the countries dividing Russia from Europe, particularly Ukraine.
- The region with the largest deterioration in peacefulness was the Middle East and North Africa. It had the largest average deterioration on seven of the 23 GPI indicators. Most of these changes were linked to the conflict in Syria and the increase in the number of refugees and IDPs.
- On average, internal indicators deteriorated while external indicators improved. The biggest deteriorations occurred in *terrorism impact*, *refugees and IDPs* and *deaths from internal conflict*, while the biggest improvements occurred in *military expenditure*, *armed service personnel rate* and *external conflicts fought*.
- Two indicators improved by more than ten per cent, *external conflicts fought* and *UN peacekeeping funding*.
- The *terrorism impact* indicator had the greatest overall deterioration, with all but two regions recording an increase in terrorism over the past decade.
- The total number of deaths from terrorism rose from less than 10,000 in 2008 to over 30,000 in 2014.
- Terrorism is at historical levels, battle deaths are at a 25 year high, and the number of refugees is at a level not seen in sixty years.
- Internal peace and the societal safety and security domain declined every year for the past eight years.
- The *armed services personnel rate* declined in 39 of the 51 countries classified as authoritarian regimes since 2008.
- The number of *refugees and IDPs* indicator, deteriorated across all regions and for all government types since 2008.
- Nine countries have more than ten per cent of their population displaced in some form, with Somalia and South Sudan both having more than 20 per cent and Syria over 60 per cent.
- In the long term trend, since the end of the Second World War, there have been a number of positive and negative trends in peacefulness.
- Firstly, there has been a shift away from conflict between nations to conflict within nations, with a parallel shift away from external militarisation to a focus on internal security.
- As internal conflict became more prominent, external parties are now more likely to become involved, or to suffer from the consequences of violence as local conflicts turn into regional or even continental crises.
- Finally, while societal safety and security has been improving, there has been a large increase in expenditure related to containing violence, such as policing and incarceration over the past 50 years, as an absolute inflation-adjusted figure, and also as a percentage of total government spending.

TRENDS IN PEACE SINCE 2008

The overall trend for the past nine years recorded a decrease in peacefulness across multiple domains, regions and indicators. The deteriorating trend in peacefulness was dominated by decreases in internal security in the MENA region. Of the improvements in peacefulness, the majority occurred on indicators related to external peace and militarisation, with both average *military expenditure* and the *armed services personnel rate* improving over the past decade.

Figure 2.1 shows an index chart of the percentage change by domain and subdomain from 2008. While all of the domains initially deteriorated over the first two years of the index, both external peace and militarisation improved over the past five years. This was driven by increases in UN peacekeeping funding, smaller numbers of army personnel and reduced military spending. By contrast, internal peace and safety and security declined every year for the past eight years, and although there was some improvement on the ongoing conflict domain from 2010 to 2015, recent increases in conflict mean that the average ongoing conflict domain score is two per cent higher in 2016 than in 2008.

The change in peacefulness since 2008 was not equally distributed across countries, regions and government types as shown in table 2.1. At the indicator level, the greatest change occurred on *terrorism impact*, which deteriorated in every region other than South Asia. There was a deterioration of over 15 per cent in seven regions, and deterioration across all four government classifications: full democracy, flawed democracy, hybrid regimes and authoritarian regimes. The only other indicator that deteriorated across nearly as many regions and government types was the *refugees and IDPs* indicator, which deteriorated across eight regions and for all government types other than full democracies. Of the indicators that improved, the *armed services personnel rate* fell in seven regions, as did *UN peacekeeping funding*.

FIGURE 2.1 GPI SCORE CHANGE BY DOMAIN, 2008 – 2016

While external peace and militarisation improved slightly, internal peace and societal safety and security had large deteriorations.

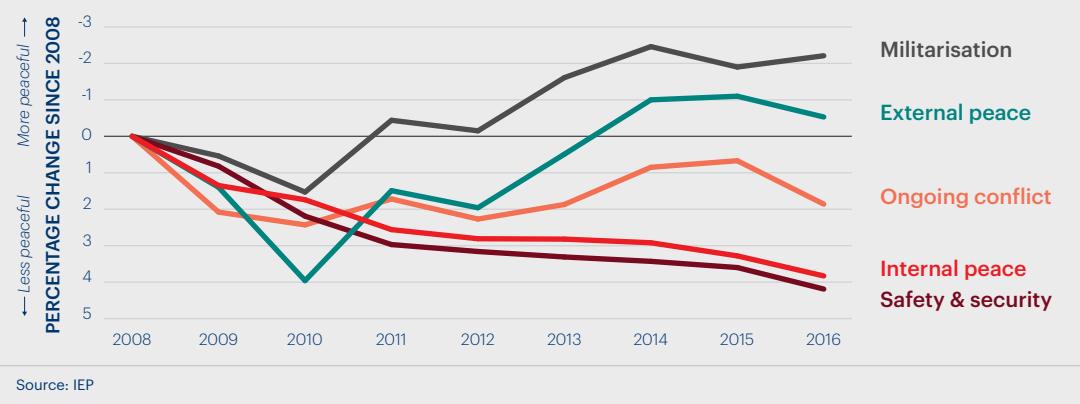


TABLE 2.1 PERCENTAGE CHANGE MATRIX FOR ALL GPI INDICATORS AND DOMAINS BY REGION AND GOVERNMENT TYPE, 2008 TO 2016

Terrorism deteriorated across most regions, while the Middle East and North Africa had the largest number of indicators deteriorating.

INDICATOR	ASIA-PACIFIC	CENTRAL AMERICA AND CARIBBEAN	EUROPE	MIDDLE EAST AND NORTH AFRICA	NORTH AMERICA	RUSSIA AND EURASIA	SOUTH AMERICA	SOUTH ASIA	SUB-SAHARAN AFRICA	AUTHORITARIAN REGIME	FLAWED DEMOCRACY	FULL DEMOCRACY	HYBRID REGIME
GPI overall score	-2.0%	2.3%	-1.3%	13.9%	-4.8%	-0.6%	2.1%	2.5%	2.3%	5.7%	-1.0%	-0.5%	2.0%
Safety & security	0.5%	3.0%	1.5%	14.2%	-2.2%	-1.2%	5.7%	3.1%	4.3%	6.7%	1.7%	0.8%	3.5%
Ongoing conflict	-3.4%	3.4%	-4.7%	20.6%	-13.3%	-0.3%	-3.8%	-0.9%	1.5%	8.4%	-3.5%	-7.6%	0.5%
Militarisation	-6.7%	-0.6%	-2.7%	1.5%	0.6%	-1.7%	-2.3%	3.9%	-3.9%	-1.9%	-4.8%	4.5%	-2.0%
Perceptions of criminality	1.9%	34.3%	4.4%	22.0%	0.0%	-2.6%	13.9%	4.5%	4.3%	9.6%	7.5%	5.3%	8.7%
Police	6.2%	-7.2%	-3.8%	11.1%	-13.6%	-6.5%	4.8%	18.4%	0.7%	6.9%	-1.7%	2.0%	-3.0%
Homicide	-4.9%	5.4%	-9.2%	-1.7%	-12.9%	-14.3%	-1.8%	-3.9%	-0.7%	0.7%	-4.6%	-4.9%	-6.0%
Incarceration	5.8%	20.6%	2.1%	1.4%	-0.1%	-11.7%	24.7%	10.3%	1.3%	3.7%	3.9%	-0.8%	8.5%
Access to firearms	-8.5%	2.4%	-0.6%	11.4%	0.0%	0.0%	2.7%	0.0%	-3.6%	0.8%	-1.0%	0.0%	-1.7%
Intensity of internal conflict	-4.8%	13.6%	1.9%	31.1%	0.0%	0.0%	14.3%	-6.4%	1.2%	13.0%	5.5%	-5.0%	-2.9%
Violent demonstrations	6.5%	-10.8%	14.5%	18.3%	33.3%	5.7%	4.3%	15.2%	4.8%	6.0%	8.3%	11.5%	7.6%
Violent crime	-2.1%	1.1%	2.3%	21.3%	0.0%	-8.8%	5.6%	-4.8%	8.4%	7.8%	3.0%	-7.3%	3.4%
Political instability	-8.5%	-11.2%	13.4%	4.2%	0.0%	3.9%	-5.7%	-3.1%	4.1%	3.5%	-0.4%	5.3%	-1.4%
Political terror scale	-2.9%	-7.6%	-15.3%	3.6%	-25.0%	7.5%	-3.4%	-3.9%	-2.2%	0.9%	-8.7%	-12.5%	-2.9%
Weapons imports	7.9%	9.2%	-10.4%	19.7%	3.8%	22.2%	7.0%	17.3%	8.1%	23.8%	-7.6%	-0.2%	13.7%
Terrorism	21.7%	7.8%	24.1%	26.9%	39.9%	16.4%	13.6%	-3.6%	30.6%	22.4%	16.5%	25.5%	23.2%
Internal conflicts fought	-4.2%	24.8%	-1.6%	4.5%	0.0%	10.5%	-19.3%	-6.7%	-3.0%	1.4%	-8.6%	-1.6%	-0.5%
Conflicts deaths (internal)	10.4%	33.3%	-2.7%	44.4%	0.0%	41.9%	-2.4%	3.7%	14.7%	27.4%	1.9%	0.0%	21.5%
Military expenditure	-17.6%	4.4%	-11.5%	5.8%	-12.5%	-0.8%	-7.3%	7.9%	-6.4%	-3.8%	-9.1%	-5.2%	-1.4%
Armed services personnel	-4.5%	2.2%	-5.6%	-20.0%	-4.6%	-2.0%	-0.8%	6.2%	-3.2%	-9.8%	-3.1%	-5.2%	-3.4%
UN peacekeeping funding	-22.9%	-16.3%	6.2%	-9.0%	-14.8%	-23.8%	-16.7%	10.4%	-12.4%	-15.4%	-11.4%	13.2%	-11.9%
Nuclear and heavy weapons	0.6%	-0.1%	-6.4%	-4.6%	-0.3%	-5.3%	0.7%	0.2%	0.9%	-2.5%	-1.4%	-5.1%	-1.1%
Weapons exports	7.5%	0.0%	5.6%	0.9%	13.4%	10.8%	0.4%	-0.1%	0.7%	3.0%	-5.3%	24.7%	2.6%
Refugees and IDPs	1.9%	11.4%	2.6%	83.8%	0.0%	29.2%	35.9%	26.6%	15.7%	29.8%	11.1%	0.0%	26.9%
Neighbouring country relations	1.1%	-8.3%	8.8%	20.1%	0.0%	5.0%	-13.0%	5.6%	-6.1%	5.7%	1.8%	-5.0%	0.5%
External conflicts fought	-20.9%	-35.7%	-31.5%	24.7%	-4.1%	-49.5%	0.0%	4.6%	45.5%	15.0%	-31.4%	-15.2%	-7.2%
Conflict deaths (external)	-4.8%	-1.1%	-4.9%	6.0%	-39.5%	2.4%	0.0%	7.5%	0.0%	-1.4%	0.3%	-13.3%	2.4%

Regionally, the largest deteriorations occurred in the Middle East and North Africa, which deteriorated on average across 19 of the 23 indicators. Many of the deteriorations in the region were highly correlated, as increasing internal conflict led to increasing perceptions of criminality, higher levels of violent crime, greater government repression, the outbreak of terrorism and widespread population displacement. While the average GPI score in the Middle East and North Africa deteriorated by 14 per cent, no other region had an improvement or deterioration of more than five per cent.

Figure 2.2 depicts the percentage change in average indicator score for those indicators that improved or deteriorated by more than five per cent. In total, ten indicators had large fluctuations, with six deteriorating and four improving. All four indicators that improved are measures of external peacefulness, while five of the six indicators that deteriorated are measures of internal peacefulness.

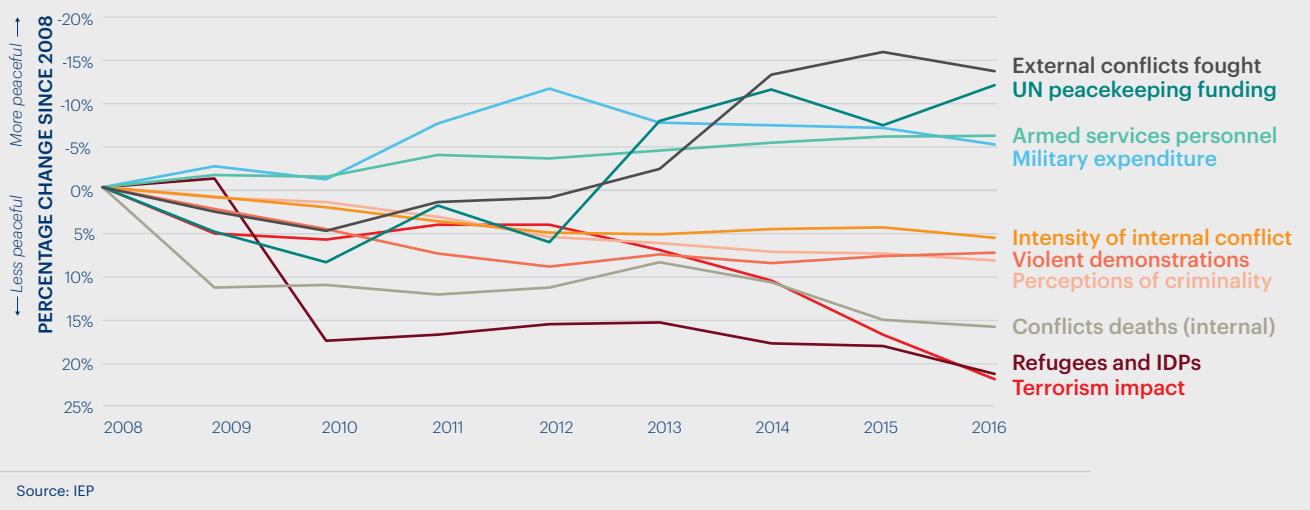
The single greatest indicator change occurred on *terrorism impact*, which deteriorated by more than 20 per cent on average, followed by *refugees and IDPs* and *internal conflict deaths*.

deaths. There were also smaller deteriorations for the *intensity of internal conflict*, *violent demonstrations* and *perceptions of criminality* indicators. No indicator improved by more than 15 per cent, with only *external conflicts fought* and *UN peacekeeping funding* improving by more than ten per cent.

The past decade has seen a continuation of longer term trends in peacefulness away from external conflicts between states and towards more internal conflicts within states. Although it is too early to state whether the decrease in peacefulness represents a reversal of the ‘long peace’ that started at the end of the Second World War, there are a number of worrying signs that suggest conflict could escalate. The increase in terrorism across regions highlights the ability of terrorist groups to ‘export’ violence beyond national boundaries, as demonstrated by the increase in terrorist attacks in OECD countries in the past year. Similarly, the entanglement of more nations into the Syrian conflict, coupled with the enormous outflow of displaced people, shows that even internal conflicts cannot be quarantined and their repercussions can be felt across borders and even continents.

FIGURE 2.2 GPI PERCENTAGE CHANGE FROM 2008 TO 2016 BY INDICATOR

Six indicators deteriorated by more than five per cent, with four improving by more than five per cent.



“ The single greatest indicator change occurred on terrorism impact, which deteriorated by more than 20 per cent on average, followed by refugees and IDPs and internal conflict deaths.

INDICATOR TRENDS

TERRORISM

While still accounting for a small percentage of the total number of violent deaths, terrorism has grown steadily over the past decade. The number of yearly incidents has almost tripled since 2011, and the number of deaths has increased to over 30,000. The total level of terrorist activity increased by 80 per cent from 2013 to 2014, the largest increase in the years covered by the Global Terrorism Database, which has data back to 1970. Estimates created by IEP suggest that the level of terrorism shows no sign of abating in 2015 and early 2016.

FIGURE 2.3 TERRORIST INCIDENTS AND DEATHS FROM TERRORISM, 2006-2014

The number of deaths from terrorism has risen dramatically since 2011, from under 10,000 to over 30,000.



Source: Global Terrorism Database

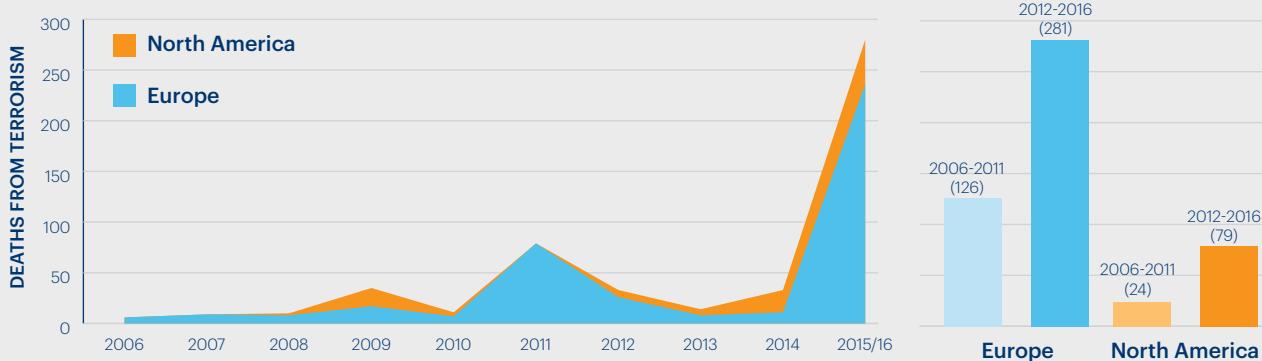
The majority of terrorist activity is highly concentrated in five countries: Iraq, Nigeria, Afghanistan, Pakistan and Syria. Between them these countries accounted for 78 per cent of deaths from terrorism in 2014. However, there are signs that terrorism is becoming more common across the globe, with almost every region having an increase in its *terrorism impact* score from 2008 to 2016. The number of countries with over 500 deaths from terrorism increased from five to 11 between 2013 and 2014. At the other end of the scale, the number of countries which recorded no terrorist incidents at all decreased from 49 in 2008, to 37 in 2016 out of 163 countries.

Although there are many hundreds of active terrorist groups in the world, most are responsible for only a few deaths or no deaths at all. The responsibility for the majority of deaths comes from just a few large terrorist groups, with Boko Haram and ISIL being responsible for over 50 per cent of deaths by known actors. Both of these groups also function as combatants in existing civil and territorial disputes, with ISIL being involved in more than 20,000 battle-related deaths in addition to over 6,000 deaths from terrorism.

The past year has also seen a large increase in the number of deaths from terrorism in the west. The number of deaths from terrorism has more than doubled in Europe (excluding Turkey) over the last five years, with the vast majority of these deaths occurring in early 2016. France, Belgium and the US have all experienced a significant terrorist attack in the last six months. Prior to the recent upswing in terrorism in the West, the majority of deaths from terrorism in Europe and North America since 2001 were caused by lone wolf attacks, usually from individuals with radical nationalist and anti-government ideologies.

FIGURE 2.4 DEATHS FROM TERRORISM IN EUROPE (EXCLUDING TURKEY) AND NORTH AMERICA, 2006 TO 2015/16

In the last five years the number of deaths from terrorism has doubled compared to the previous five years in both Europe and North America.



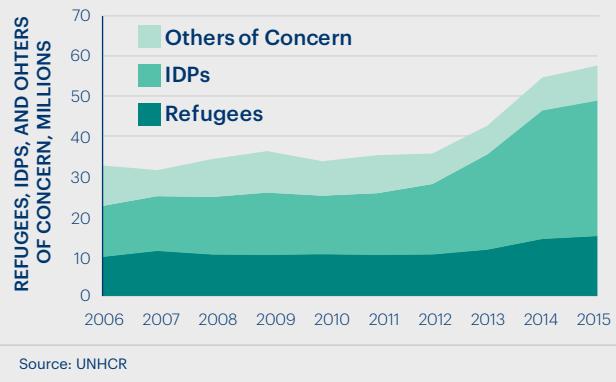
Source: IEP, Global Terrorism Database

REFUGEES AND IDPS

The increase in conflict over the last decade has resulted in a very large increase in the number of refugees and internally displaced people (IDPs), with the number of refugees increasing from 9.8 million in 2006 to over 15 million in 2015, a 52 per cent increase in under a decade. The increase in the number of IDPs was even more dramatic, rising from just under 12.8 million in 2006, to 34 million in 2015, an increase of 166 per cent.

FIGURE 2.5 TOTAL REFUGEES, IDPS AND OTHER POPULATIONS OF CONCERN TO UNHCR

The number of refugees, IDPs, and other populations of concern has almost doubled since 2007.



Source: UNHCR

The conflict in Syria was responsible for the vast majority of this increase. In 2007, just 0.1 per cent of the Syrian population was classified as refugees or IDPs. This figure rose to an extraordinary 63.18 per cent in 2015. The majority of these were internally displaced, although in 2015 and 2016 an increasing number began to leave the country, triggering the so-called European refugee crisis.

Whilst no other country comes close to having as many refugees and IDPs as a percentage of its population as Syria, there are nine other countries with more than ten per cent of their population displaced in some form, with Somalia and South Sudan both having more than twenty per cent of their population displaced. The majority of these countries are in the Middle East and North Africa, South Asia, or sub-Saharan Africa regions, with only Colombia and Cyprus being located outside of these three areas.

State failure, conflict and terrorism were the major drivers of the increase in refugees and IDPs, with the largest increases coming in countries engaged in protracted civil conflict. Outside of Syria, conflicts in Yemen, Libya, the Democratic Republic of the Congo and Ukraine all led to huge increases in the displaced population, from below one per cent to 9.3, 6.8, 4.3, and 3.9 per cent respectively.

The vast majority of refugees from conflict in the Middle East and North Africa are being hosted in nearby countries, with Turkey alone hosting an estimated 1.8 million refugees.

Pakistan, Lebanon and Iran all hosted over or close to a million refugees as of mid-2015. There has been a large increase in the number of refugees seeking asylum in Europe, with UNHCR estimates suggesting that over a million refugees reached Europe by sea alone in 2015. The majority of asylum claims in Europe are being processed in Germany, with an estimated 159,900 asylum applications in the first half of 2015 alone. However, on a per capita basis Sweden is the European country which has taken in the most refugees, with approximately 1.5 per cent of the population being refugees in mid-2015.

DEATHS FROM INTERNAL CONFLICT

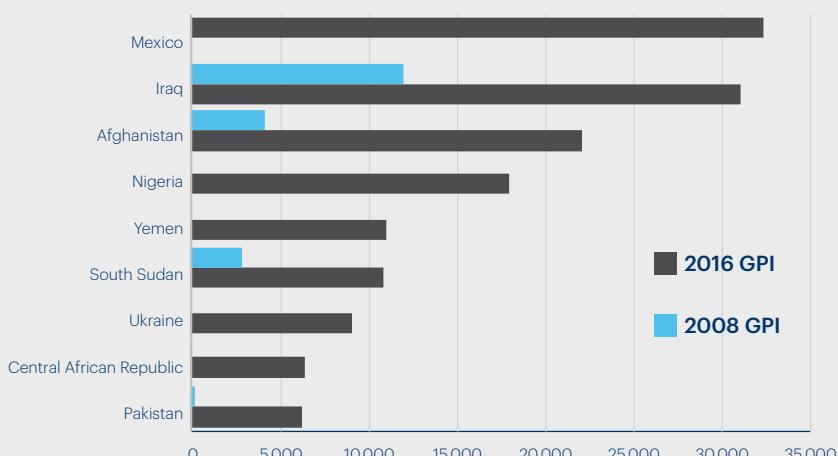
The number of deaths from internal conflict increased considerably over the last decade, rising from just under 36,000 in 2005-2006 to over 305,000 in 2014-2015. The majority of this increase is the result of conflict in Syria. Even if internal deaths from Syria are excluded from the calculations there was still a near five-fold increase in internal conflict deaths over the history of the GPI. Sri Lanka, India, Chad, Ethiopia and Colombia were the only countries that saw significant reductions in the number of deaths from internal conflict. Conversely, 16 countries had increases of over 1,000 deaths, with the largest increases occurring in Syria, Mexico, Iraq, Nigeria and Afghanistan.

Figure 2.6 highlights the nine countries with the largest increase in the number of deaths from internal conflict, excluding Syria. Mexico had an explosion of violence after the government initiated crackdown on cartel activity in 2007, and although the country has begun to become more peaceful over the last few years, the conflict still claimed over 30,000 lives in 2013-2014, which is just under the total number of people killed in terrorist incidents worldwide. The formation of ISIL led to a resurgence of deaths in Iraq, rising to over 32,000 and there was also a re-escalation of the conflict environment in Afghanistan, which experienced a 427 per cent increase in yearly internal conflict deaths from the 2008 GPI to the 2016 GPI, from 4210 to 22,170.

Of the nine countries (excluding Syria) with the most internal conflict deaths in the 2016 GPI, only three had a significant number of deaths nine years prior, with the rest experiencing breakouts of entirely new conflicts. In Nigeria, Boko Haram became the deadliest terrorist organisation in the world in 2014, seriously threatening the country's internal stability. On top of terrorism, in 2014 Nigeria had 18,000 deaths from internal conflict. In Yemen, the long simmering Houthi insurgency first led to the Yemeni revolution in 2011, followed by the still ongoing Yemeni civil war. The number of internal conflict deaths has risen steadily as a result of this escalation, leading to over 10,000 deaths in the last two years.

FIGURE 2.6 COUNTRIES WITH THE MOST INTERNAL CONFLICT DEATHS, 2016 (EXCLUDING SYRIA)

Of the nine countries (excluding Syria) with the most internal conflict deaths in the 2016 GPI, only four had any internal conflict deaths in 2008.



Source: IEP, IISS Armed Conflict Database

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Of the nine countries (excluding Syria) with the most internal conflict deaths in the 2016 GPI, only three had a significant number of deaths nine years prior, with the rest experiencing breakouts of entirely new conflicts.

EXTERNAL CONFLICTS FOUGHT

The average *external conflicts fought* score fell 15 per cent between 2008 and 2016, from 1.71 to 1.48, as shown in figure 2.7. The *external conflicts fought* indicator measures not only the number of external conflicts, but also the duration and role that states have in conflicts outside of their own borders.

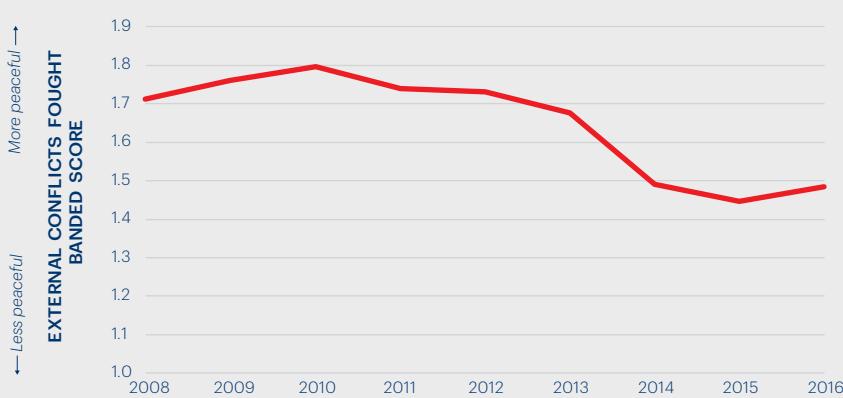
The average external conflicts score improved from 2008 to 2016. However, the number of states involved in external conflicts actually increased over this period even though the average duration of conflicts and the role played by external actors fell. More countries entered into smaller roles in

coalitions, but a number of countries withdrew from their roles in more prominent external conflicts, leading to an improvement in the overall score.

In 2010, 58 nation states were involved in 206 external conflicts. Multiple groups can be involved in a conflict with each conflict pairing being recorded separately. In 2014, this number had increased to 85 states involved in 310 conflicts. Of the 210 conflict pairings that were active in 2010, only 111 were still active in 2014, with 199 being new conflict pairings.

FIGURE 2.7 AVERAGE EXTERNAL CONFLICTS FOUGHT INDICATOR SCORE, 2008 TO 2016 GPI

The average external conflicts fought score fell 15 per cent, with the largest decrease occurring between 2010 – 2015.



Source: IEP

ARMED SERVICES PERSONNEL AND MILITARY EXPENDITURE

The average *armed services personnel* indicator declined from 2008 to 2014, as several countries sought to cut back on military expenditure and reduce the size of their standing armies. This is a continuation of a trend that began almost twenty years ago, with the number of active military personnel dropping from over 30 million in 1995 to under 29 million in 2011.

Figure 2.8 shows the change in the average *armed services personnel rate* by government type. All four government types experienced a fall in the average *armed service personnel rate*, with the biggest average fall occurring in authoritarian regimes, which fell by 18 per cent. Part of this fall can be explained by the dissolution or fragmentation of government forces in Syria and Libya, however, the *armed services personnel rate* fell in 48 of the 51 countries classified as authoritarian regimes. The second biggest improvement occurred in full democracies, with an average fall of

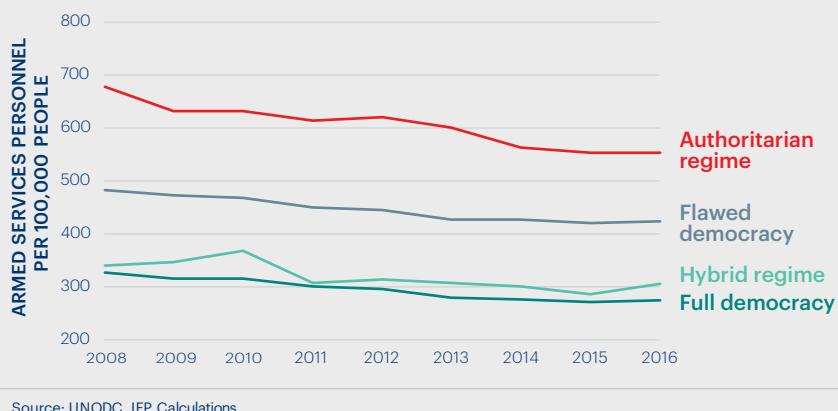
16 per cent, and both flawed democracies and hybrid regimes showed average improvements of over ten per cent.

The fall in the *armed service personnel rate* was not strongly correlated with a fall in military expenditure, with many countries increasing weapons expenditure outlay while also reducing the total number of troops, reflecting a longer term shift away from larger standing armies to more technology and capital intensive weapons systems. Figure 2.9 highlights the change in average military expenditure by government type from 2008 to 2016.

The average level of military expenditure as a percentage of GDP declined in both full democracies and flawed democracies. However, there was considerably more variation in the trend in authoritarian regimes and hybrid regimes, which both experienced steep declines from 2010 to 2012, followed by a steady increase in military expenditure for the past four years. The largest increase over the full time period occurred in Afghanistan, where military expenditure rose from 1.66 per cent of GDP to 15.75 per cent in less than a decade. Libya, Oman, Algeria and Syria also had large increases.

FIGURE 2.8 CHANGE IN AVERAGE ARMED SERVICES PERSONNEL RATE BY GOVERNMENT TYPE, 2008-2016

All four government types experienced falls in the armed forces rate over the past decade.

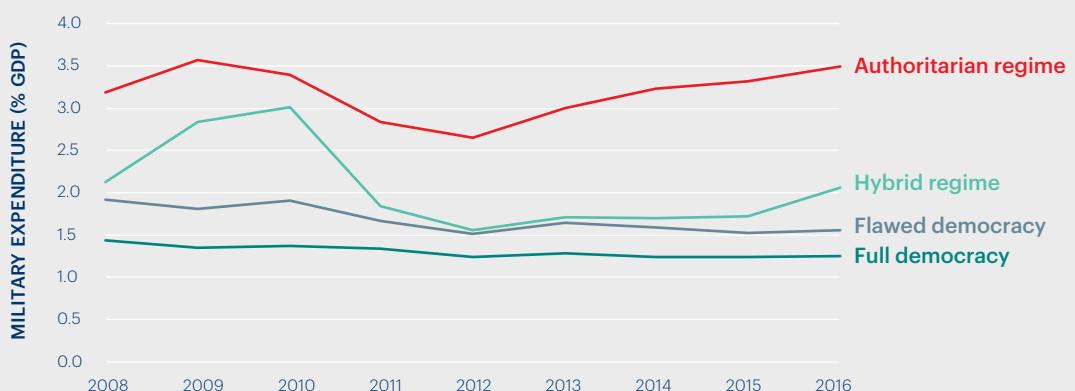


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The fall in the armed service personnel rate was not strongly correlated with a fall in military expenditure.

FIGURE 2.9 CHANGE IN AVERAGE MILITARY EXPENDITURE (%GDP) BY GOVERNMENT TYPE, 2008 - 2016

Military expenditure increased as a percentage of GDP in authoritarian regimes, but fell in full and flawed democracies.



LONG-TERM TRENDS

There is a strong consensus that even though the world has become much less violent since the end of the Second World War, the last decade has seen an increase in conflict and violence, although whether this is a temporary reversal or the start of a new longer-term trend remains to be seen.

Many of the approaches to measuring peace focus on conflict and war, ignoring the other dimensions affecting peacefulness, particularly those indicators that measure resources devoted to containing or dealing with violence, such as internal security, police, incarceration or counter-terrorism. While lower levels of violence can be achieved by increasing spending in these areas, this does not necessarily represent a more peaceful world if this decline in violence has only been achieved by devoting more resources to security.

Reconstructing a version of the GPI back to the end of the Second World War is not possible, owing to large data gaps across both indicators and countries. However, it is possible to assemble the existing data and group these datasets into the

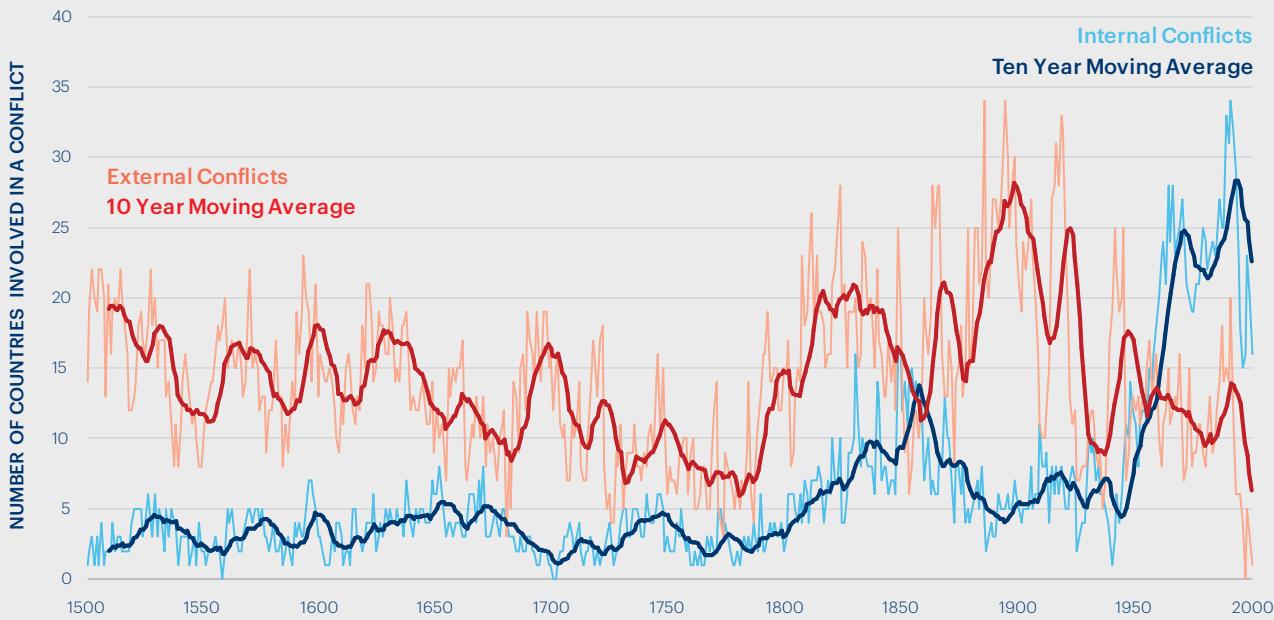
three GPI subdomains: ongoing conflict, militarisation and societal safety and security. This data suggests that even though the world has become less violent over the last 60 years, this fall in violence has been offset by an increase in spending on services that aim to contain violence.

Over the past five hundred years there has been a shift away from conflict between states (external conflict) to conflict within states (internal conflict). Figure 2.10 shows the ten year moving average for states involved in internal and external conflicts over the past five hundred years.

The last 60 years have seen the number of internal conflicts not only increase, but also overtake the number of external conflicts.

FIGURE 2.10 NUMBER OF COUNTRIES INVOLVED IN AN INTERNAL OR EXTERNAL CONFLICT, 1500 - 2000

In the last 50 years, the number of countries involved in internal conflicts overtook the number of countries involved in external conflicts.



This shift away from external conflict towards internal conflict is also reflected in figure 2.11 which shows the ten year moving sum of territorial changes by type.

The number of territory changes that were classified as either conquests or annexations peaked in the early 20th century, with only a brief resurgence in the mid-1970s. In the last decade there have only been three territory changes classified as conquests, three changes that involved a military conflict and a general decline in the number of overall territory changes. This lends credence to both the theory that the world has become more peaceful and also that direct conflicts between nations are becoming much rarer.

GPI DOMAIN TRENDS



ONGOING DOMESTIC & INTERNATIONAL CONFLICT

The trend away from external and towards internal conflicts can be seen in figure 2.12, which shows a more detailed account of armed conflicts, which are defined as a conflict that caused more than 25 battle deaths in any one year from 1946 to 2014.

The decline in the number of interstate and extrasystematic is clear, as is the rise of internal conflicts. Overall, the total number of active serious armed conflicts has declined from a peak of 51 conflicts in 1991 to 40 in 2014, although this is the highest number of active conflicts since 1999. In addition, there has been a clear rise in the number of internationalised internal conflicts, which were just three per cent of total conflicts in 1991, but constituted 32.5 per cent of total conflicts in 2014.

The total number of conflicts has jumped sharply in the past few years, rising from 31 in 2010 to 40 in 2014. This increase in the number of internal conflicts has led to a concurrent rise in battle deaths. In 2014, owing largely to the conflict in Syria but also the increasingly protracted conflict in Yemen, battle deaths hit a 25 year high, with this number likely to increase when 2015 data are released. Figure 2.13 highlights the total number of battles deaths from 1946 to 2014, as well as the past 25 years in isolation.

Although the majority of deaths in 2014 occurred in Syria, there were a number of other conflicts that resulted in high numbers of battle deaths. In total, 11 conflicts resulted in more than a thousand deaths each in 2014, with conflict in Iraq and Afghanistan resulting in more than 10,000 deaths each.

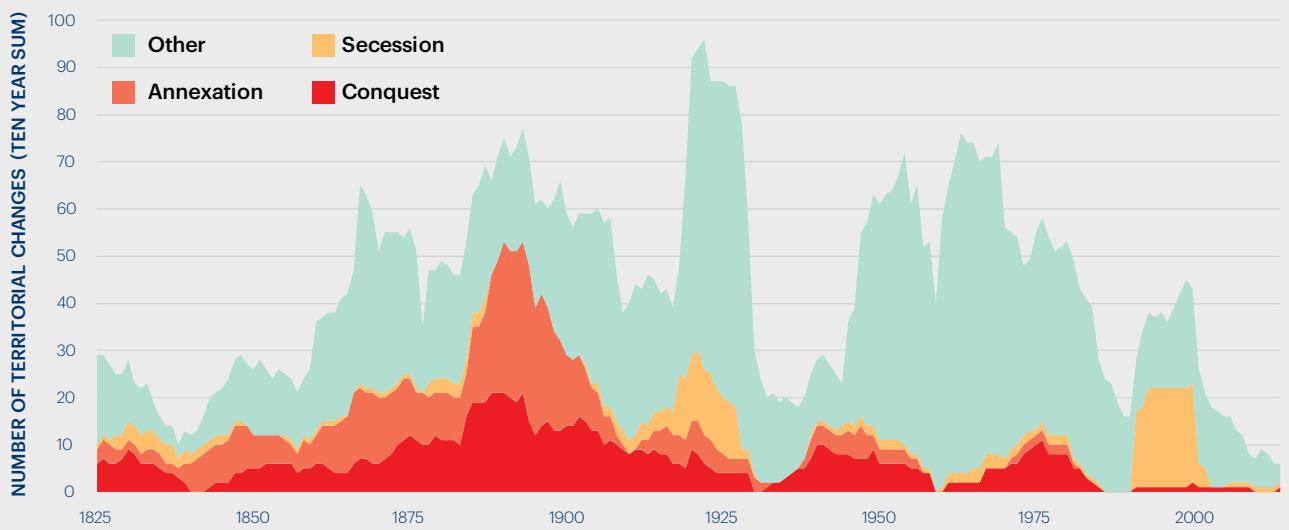
BOX 2.1 WHAT ARE THE DIFFERENT TYPES OF CONFLICT?

The UCDP-PRIOR Armed Conflict Dataset classifies conflicts in four different ways:

- **Extrasystemic armed conflict** occurs between a state and a non-state group outside its own territory, for example, colonial wars or wars of independence.
- **Interstate armed conflict** occurs between two or more states.
- **Internal armed conflict** occurs between the government of a state and one or more internal opposition groups without intervention from other states.
- **Internationalised internal armed conflict** occurs between the government of a state and one or more internal opposition groups with intervention from other states on one or both sides.

FIGURE 2.11 TERRITORIAL CHANGES BY TYPE AND WHETHER A MILITARY CONFLICT WAS INVOLVED, TEN YEAR SUM, 1825-2014

Since the mid-1970s the number of territorial changes categorized as conquests has dropped to almost zero.



Source: Correlates of War Database

While the total number of battle deaths did reach a 25 year high in 2014, the last 25 years have been relatively peaceful compared to the preceding 25. From the period 1990 to 2014, there were more than 50,000 deaths in a year on six occasions. By contrast, from 1965 to 1989 there were more than 50,000 deaths on 24 occasions.

Violent deaths do not always occur in formal conflicts, but can also result from one-sided violence between groups within a nation. An instance of one-sided violence is defined here as the use of force by a government or other formally organized group against citizens, resulting in at least 25 deaths in any year.

Trying to assess a trend in one-sided violence can be difficult, as such datasets tend to be dominated by single events that lead to tens if not hundreds of thousands of deaths. Figure 2.14 depicts one-sided deaths per year from 1989 to 2014, with the left hand

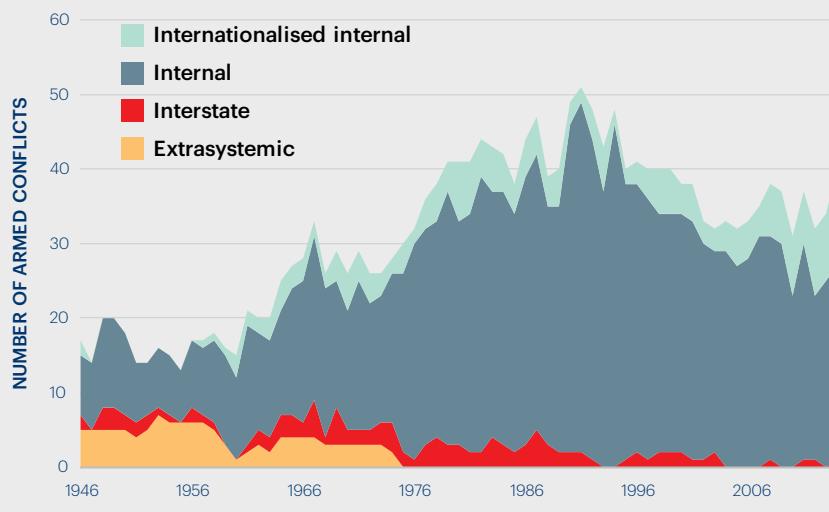
chart including the Rwandan genocide and the right hand chart excluding it.

If the Rwandan genocide data is excluded, we can better assess the trend in recent years. There has in fact been an increase in the number of one sided deaths in the past decade, but these deaths are only a small percentage of total violent deaths and are eclipsed by deaths from terrorism, battle deaths and homicide.

The number of attempted genocides and politicides has also been declining since the end of the Second World War. A politicide is defined here as the mass murder of civilians for their support of a political movement. Figure 2.15 shows a count of the number of genocides and politicides per year from 1956 to 2014, classified according to the magnitude of deaths that occurred.

FIGURE 2.12 TOTAL ARMED CONFLICTS BY TYPE, 1946-2014

The last decade has seen a growth in the number of internationalised internal conflicts.



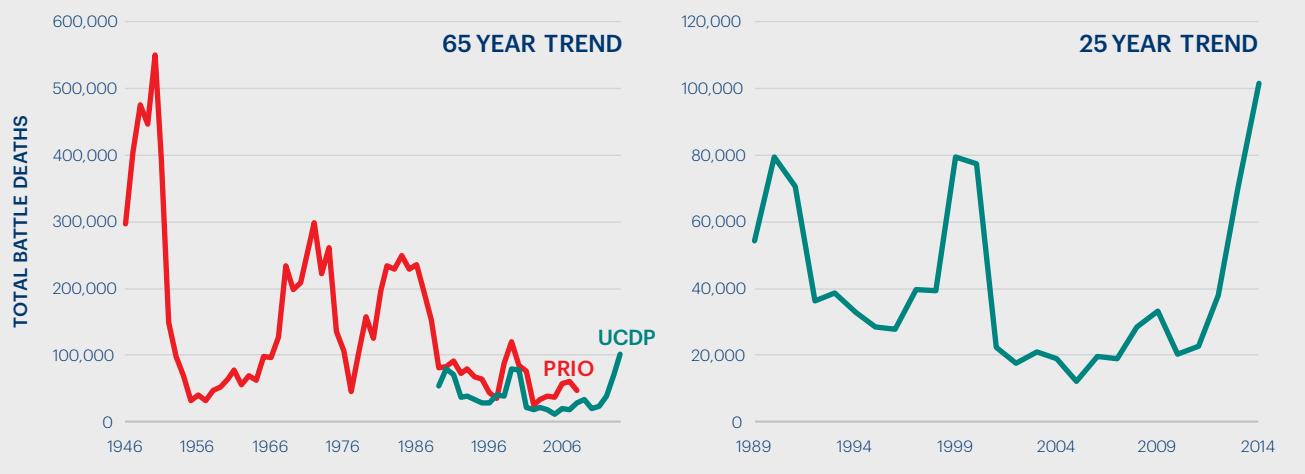
Source: UCDP/PRIOR Armed Conflict Dataset (v4)

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Internationalised internal conflicts made up 3% of total conflicts in 1991, but 32.5% in 2014.

FIGURE 2.13 TOTAL NUMBER OF BATTLE DEATHS, 1946 - 2014 AND 1989 - 2014

The number of battle deaths reached a 25 year high in 2014, the majority of which occurred as a result of the conflict in Syria. However, the number is still well below the number of deaths recorded in the mid-1960s and mid-1980s.



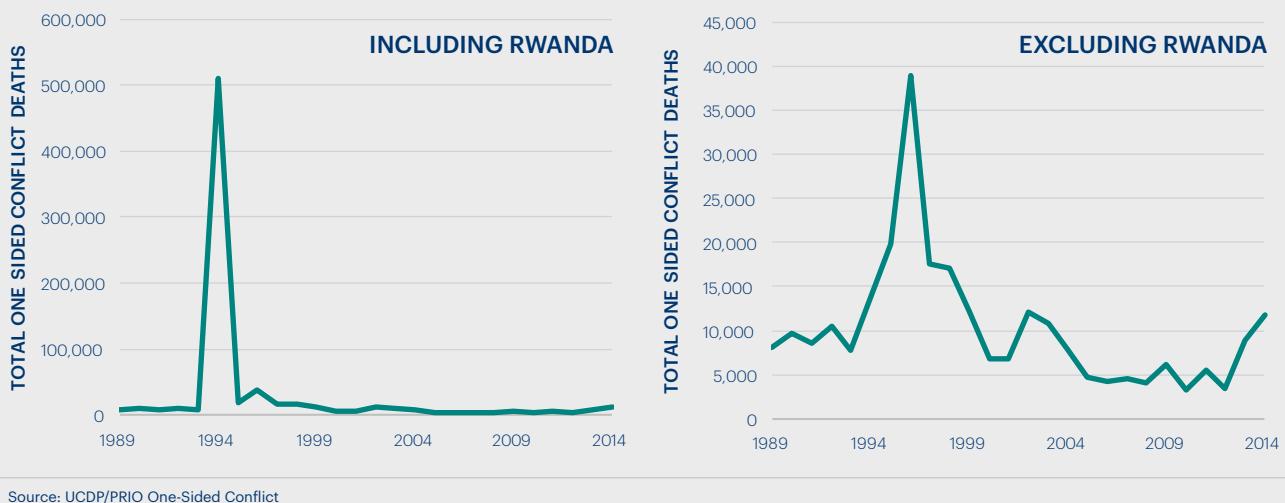
Source: UCDP, PRIOR

Both the number and severity of these types of one-sided violence have been declining. There have been six instances of the most severe category of genocidal violence since 1956: in Indonesia, Nigeria, Pakistan, Cambodia, Sudan and most recently Rwanda. However, since 1994 there have been no attempted genocides and politicides that resulted in more than 256,000 deaths and the total count of genocides and politicides has fallen from 11 in 1974 to just two in 2014.

One potential reason for the reduction in one-sided violence is the increased commitment from the international community to violence prevention. Figure 2.16 shows the number of actively deployed, uniformed UN peacekeepers from 1991 to 2016. There has been a large increase in the number of deployed peacekeepers since the turn of the century, with over 100,000 active as of early 2016.

FIGURE 2.14 DEATHS FROM ONE-SIDED VIOLENCE, 1989-2014, INCLUDING AND EXCLUDING THE RWANDAN GENOCIDE

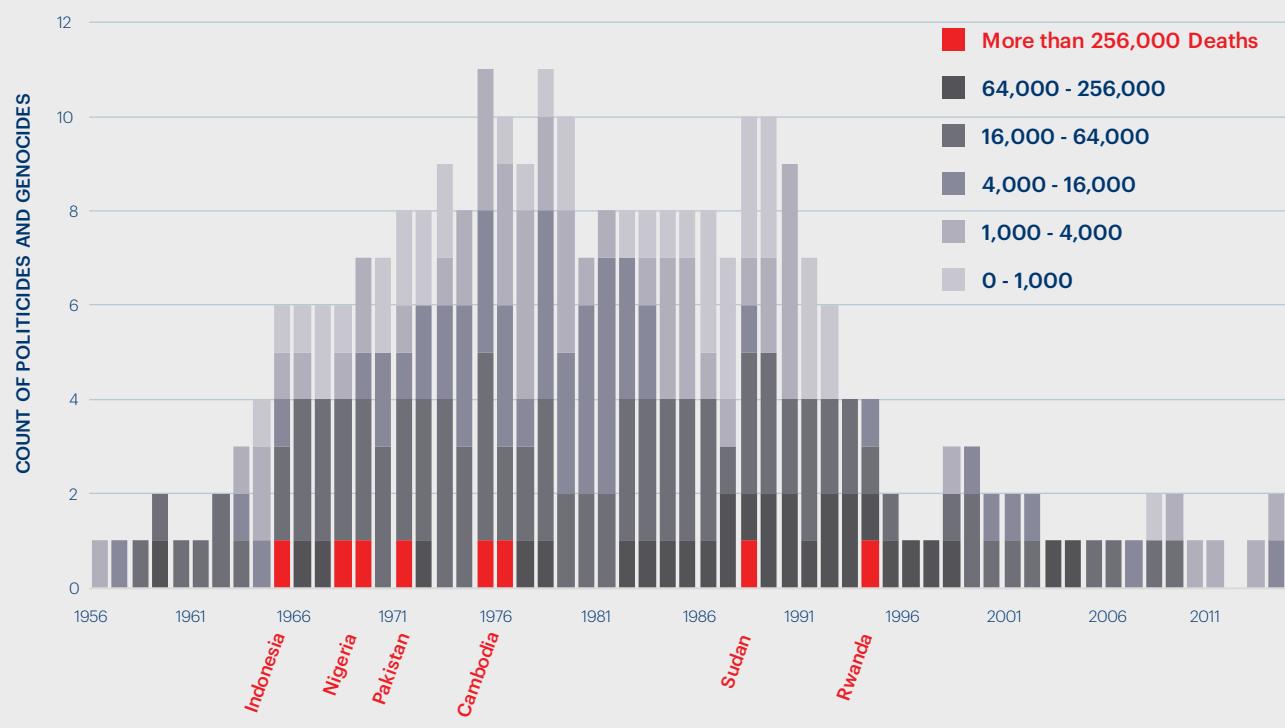
There has been an increase in the number of one-sided violent deaths in the last decade, but there hasn't been a high magnitude genocide since Rwanda in 1994.



Source: UCDP/PRIOR One-Sided Conflict

FIGURE 2.15 TOTAL NUMBER OF GENOCIDES AND POLITICIDES, 1956 - 2014

There have been six episodes of genocidal violence since 1956 that resulted in more than 256,000 deaths.



Source: Political Instability Task Force, State Failure Problem Set

While peace entails more than the absence of war, the majority of violent deaths in the last decade has occurred in conflict or warlike situations.

The increasing number of deployed peacekeepers and the international community's improvement in meeting their UN peacekeeping funding dues reached record highs in early 2016, suggesting that the international community is more willing and able to address war and conflict situations than in the immediate period after the Second World War. However, an increase in the resources devoted to violence containment should not be equated with a more peaceful world. The potential for future violent conflict still exists, as attested to by the recent increase in the number of conflicts.

The nature of conflicts that are arising is also changing. While the prospect of direct interstate conflict seems to be becoming much more likely, the potential for indirect or proxy conflict between nation states is rising. This can be seen in the current conflict in Syria, where the conflict between the Assad regime and multiple non-state actors has spilled over into a broader proxy conflict between Saudi Arabia and Iran and more recently the United States and Russia. Tensions between external nations threatened to erupt into a much broader conflict when Turkey shot down a Russian attack aircraft that had allegedly strayed into Turkish airspace.

“ One potential reason for the reduction in one-sided violence is the increased commitment from the international community to violence prevention.



MILITARISATION

While data availability for militarisation does not extend back to 1950 for all indicators, there is enough data to suggest that both global military expenditure and the number of active duty military personnel have increased since the end of the Second World War, although this has begun to change over the past 20 years.

Harmonized total global military expenditure data is currently only available back to 1990, although it is available back to 1955 for NATO member nations. The total level of NATO military spending (excluding the US) increased from approximately US \$150 billion in 1955 to \$268 billion in 2015, an increase of 78 per cent. US expenditure increased by 67 per cent over the same period. However, there was a sharp decline in total spending by NATO countries in the last decade, both including and excluding the US. Total military expenditure has decreased every year since 2009.

The end of the Cold War saw a massive reduction in military expenditure, from US\$1.5 trillion in 1990, down to \$1 trillion in 1996. However, this decline proved to be short lived, with year on year increases from 1996 to 2009 and a plateau in total military spending since then.

In contrast to the increase in military spending, the total number of armed service personnel has been decreasing in the last 20 years. Comparable data is available for the period 1995 to 2014. It shows that the global number of armed service personnel has fallen from 30.1 million in 1995 to 27.3 million in 2014. Of the world's 50 largest militaries, 26 saw reductions in the total number of armed services personnel, including four of the ten largest standing armies: China, the US, Russia and South Korea.

FIGURE 2.16 UN DEPLOYED PEACEKEEPERS BY TYPE, 1990-2016 (MONTHLY)

Peacekeeping deployments reached their highest ever levels in 2016.

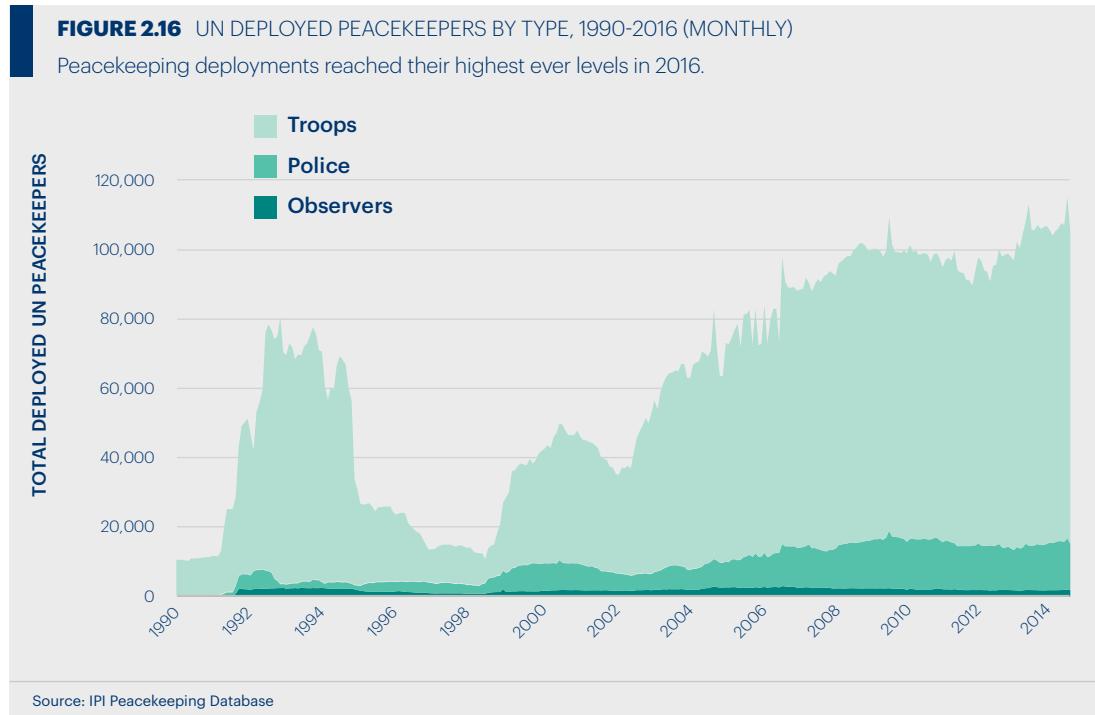


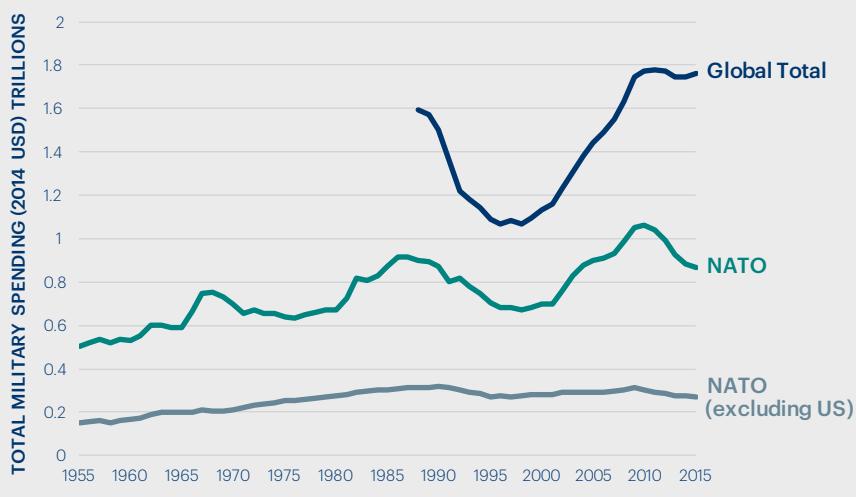
Figure 2.18 highlights the contrast between military expenditure as a percentage of GDP and declining armed forces personnel, both as a global total and for the world's four largest militaries (excluding North Korea).

After increasing the size of its armed forces in response to conflicts in Iraq and Afghanistan, the US army continued its long downward trend in size. Total spending rose by over \$200 billion, although as a percentage of GDP it has returned to the same level as in 1995. The trend in China was very similar, with an even more pronounced increase in spending, up nearly 600 per cent from 1995, although this occurred in tandem with an unprecedented period of economic growth. Russia also decreased its number of armed forces personnel, from 1.8 million down to 1.4. Of the four highlighted countries, only India increased its number of personnel, from 2.15 to 2.72 million, a 27 per cent increase.

The reduction in the number of personnel reflects the decreased likelihood of conflicts

FIGURE 2.17 TOTAL MILITARY EXPENDITURE IN 2014 USD, 1955-2015

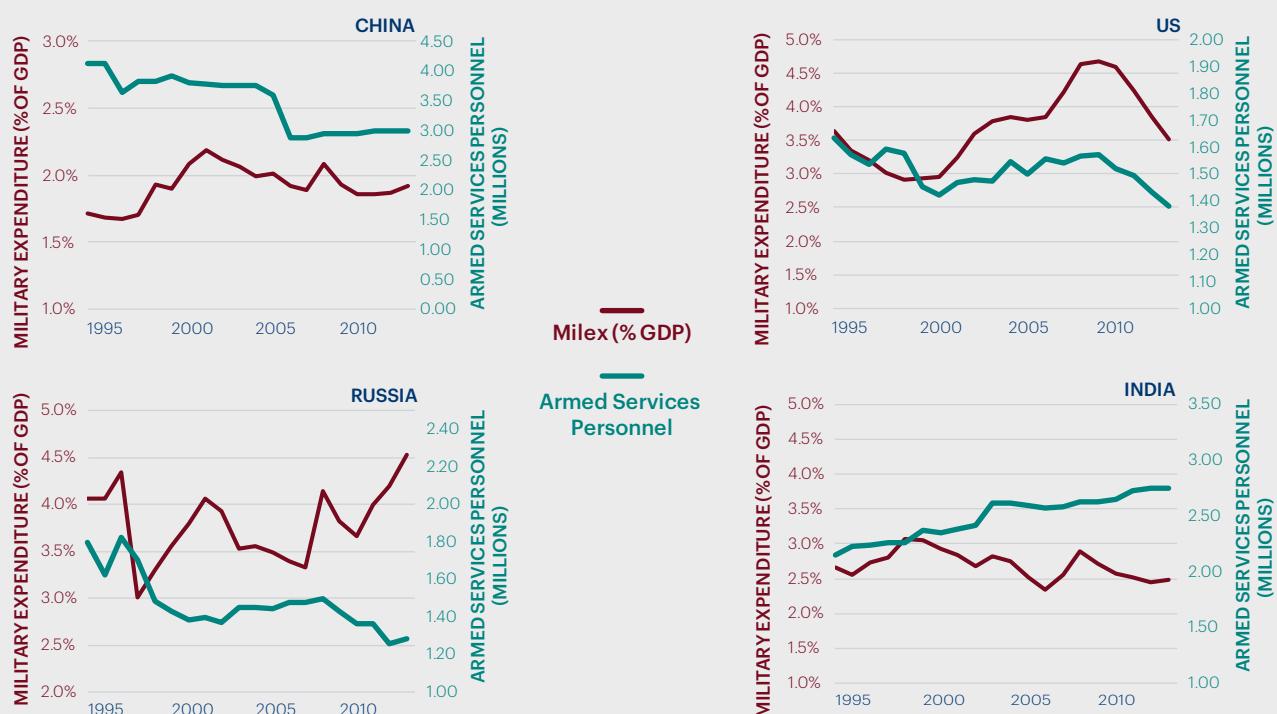
Total global military expenditure has increased considerably since 1995, but levelled off over the last decade.



Source: SIPRI

FIGURE 2.18 MILITARY EXPENDITURE AS A % OF GDP AND TOTAL ARMED SERVICES PERSONNEL, 1995-2012

In the world's largest military powers, the number of armed forces personnel has been declining.



Source: World Bank, SIPRI

between states and thus the need for infantry. It might also, however, reflect a shift away from labour-intensive armed forces to more technologically advanced military programs with a primary emphasis on border protection and surveillance. There is also the possibility that the trend of increasing internal conflicts has been mirrored by a trend in violence containment spending away from armed forces and towards the increased militarisation of internal security in the form of counter-terrorism, surveillance and expanded police capacity and powers.

SOCIETAL SAFETY AND SECURITY

The greatest challenge in assessing trends in societal safety and security is finding comparable data sources. The GPI relies on expert qualitative assessments to fill these data gaps, but such assessments are not available over the longer term. As such, making an assessment of trends in internal peace is much more difficult before the first GPI in 2007.

Homicide is widely considered to be the most reliable and broadly comparable type of interpersonal violence data. Comparing other types of violent crime for even a single year is exceedingly difficult, owing to differences in classification, counting, collection and reporting procedures across different countries. By contrast, homicide data is usually collected and classified in a similar manner across countries and underreporting is not an issue, although misclassification might be. As such, finding a harmonized dataset of violent crime for the last 60 years is not possible, but there is comparable homicide data for 40 countries from 1960 to 2010.

While the dataset is not large enough to be conclusive about global homicide trends, particularly as most of the countries are from Europe with a small number of South American countries and a single sub-Saharan African country, it is indicative of how homicide rates have changed in the developed world over the

past half century. Of the 40 countries in the dataset, 25 experienced increases in their homicide rate from 1960 to 2010, with decreases in 15 countries. Figure 2.19 shows the five countries with the largest percentage improvements and deteriorations in their homicide rate from 1960 to 2010.

Homicides rates in Europe reached historic lows in the 1950s and although these rates are still amongst the lowest in the world, they increased steadily in many European countries from 1960 until the mid-1990s.

One factor that is often ignored when looking at changes in societal safety and security is the level of resources devoted to containing violence. Comparable security sector spending is only available for a handful of countries. Figure 2.20 highlights inflation adjusted police and prison system spending in the US and UK from 1950 to 2014, as a percentage of total government revenue.

In both countries the percentage of government revenue that is spent on protection services, such as the police and the prison system, has increased significantly, but has been decreasing over the last five years. Although comparable data on protection spending is not available for other countries, data on police numbers does indicate that more countries increased their police officers rate in the last thirty years than decreased. IEP has data that covers 101 countries of which 76 increased their police numbers while 26 decreased between 1981 and 2012.

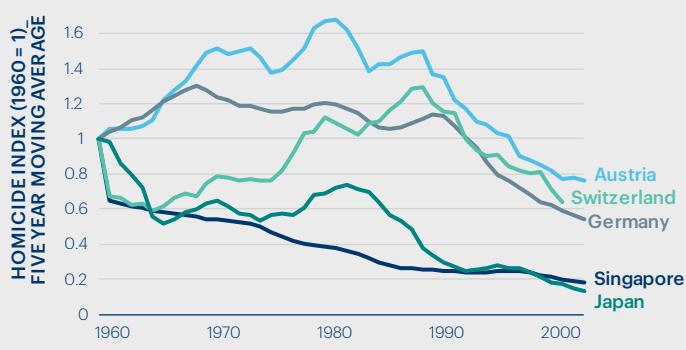
Figure 2.21 depicts an index chart of violent crime, incarceration and protection spending in the US from 1978 to 2014. The drop in homicide and violent crime in the US has been widely touted as an example of increasing peacefulness, but there has been a concurrent increase in incarceration and spending on police.

This increased level of spending on protection services has been paralleled by the large increase on counter-terrorism spending and domestic surveillance in the wake of the September 11th 2001 terrorist attacks.

Internal violence can also take the form of government abuse of citizens. The GPI uses the *Political Terror Scale* as its measure of state sponsored violence, which has data available

FIGURE 2.19 HOMICIDE INDEX CHART (1960 = 1), FIVE YEAR MOVING AVERAGE, 1960-2010

Of the 40 countries in the long term homicide dataset, only Singapore and Japan saw a fall in their homicide rate of more than 50 per cent from 1960 to 2010



Source: CLIO-INFRA

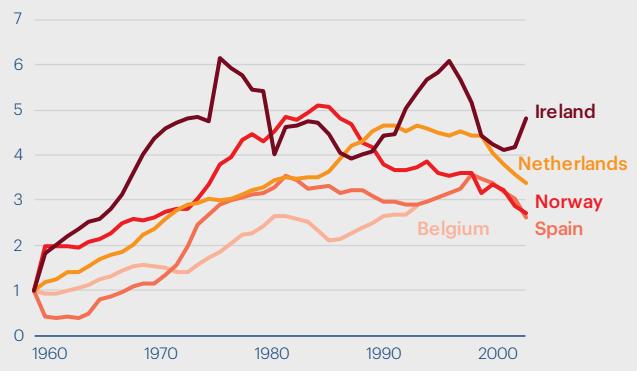
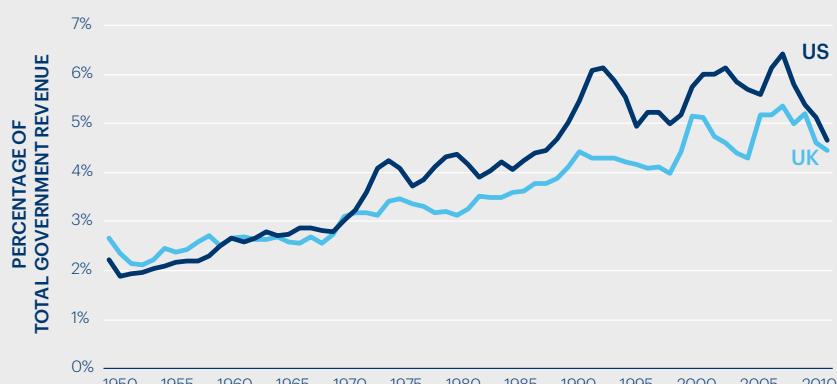


FIGURE 2.20 POLICE AND PRISON SYSTEM SPENDING AS A PERCENTAGE OF TOTAL GOVERNMENT REVENUE, US AND UK, 1950-2014

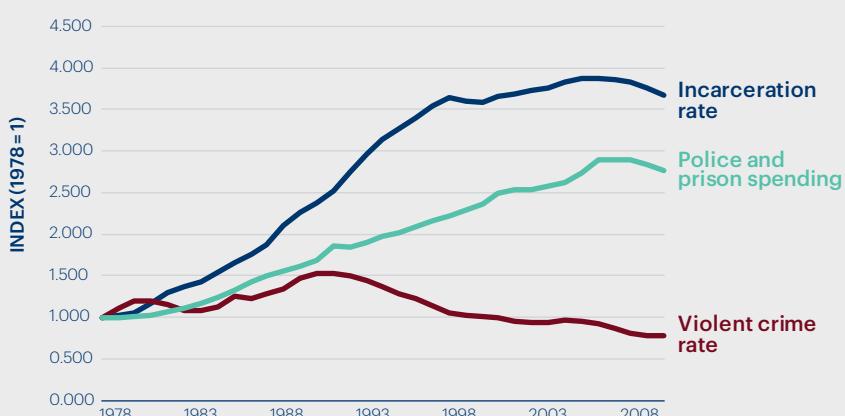
In both the US and UK, the percentage of government revenue spent on protection services has more than doubled.



Source: Chantrill (2016), IEP Calculations

FIGURE 2.21 INDEX CHART OF VIOLENT CRIME, INCARCERATION AND POLICE AND PRISON SYSTEM SPENDING IN THE US (1978=1)

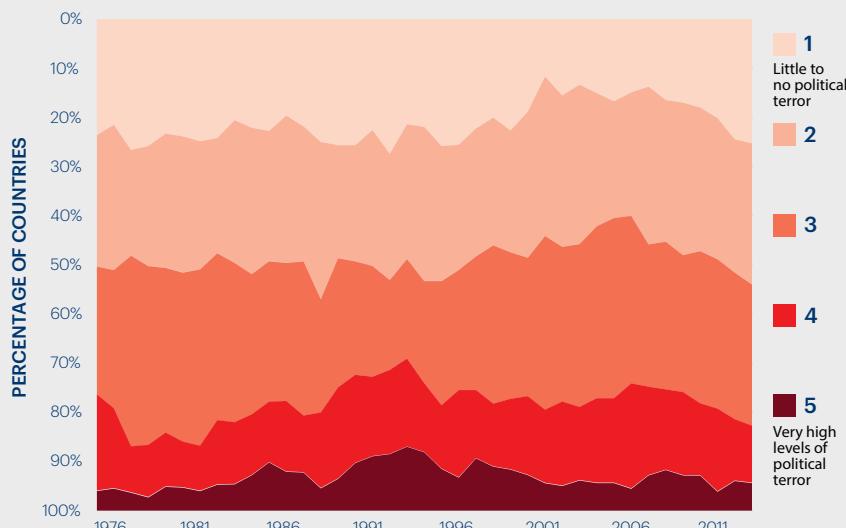
Although the violent crime rate in the US has declined, there has been a much larger percentage increase in protection spending and incarceration.



Source: FBI, IEP

FIGURE 2.22 POLITICAL TERROR SCALE, MEDIAN ROUNDED SCORE, 1976 TO 2014

The composition of the Political Terror Scale has not changed much since 1976.



Source: Political Terror Scale

back to 1976. Figure 2.22 shows the composition of the *Political Terror Scale* scores from 1976 to 2014.

The average country score improved slightly, moving from 2.53 to 2.43, although there was no change in the median score. In 1976, 23.6 per cent of countries received the best possible score of one, a figure that improved slightly by 2014 to 25.3 per cent. Similarly, the percentage of countries receiving the worst possible score of five rose slightly from 3.9 per cent to 5.6 per cent. Even though other long term indicators of political stability and democratisation improved over the same time period, there was virtually no change in the likelihood of state violence against citizens.

“ The drop in homicide and violent crime in the US has been widely touted as an example of increasing peacefulness, but there has been a concurrent increase in incarceration and spending on police.

GLOBAL ECONOMIC VALUE OF PEACE



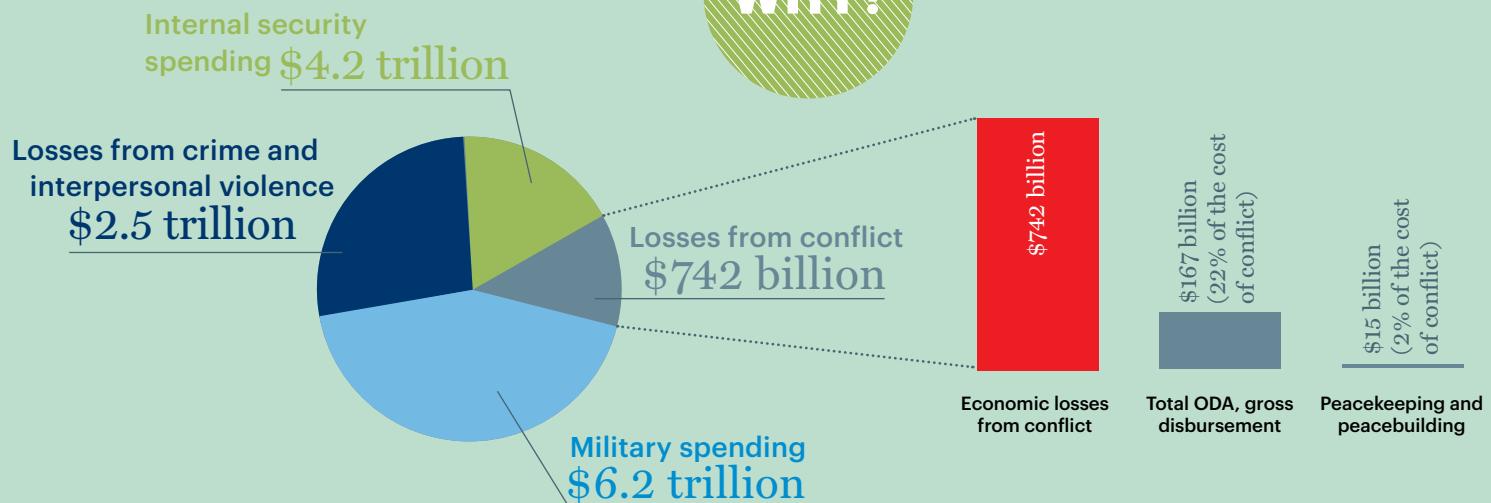
GLOBAL ECONOMIC IMPACT OF VIOLENCE

WHICH IS EQUIVALENT TO
13.3%
OF WORLD GDP

\$13.6
TRILLION

WHICH IS EQUIVALENT TO
\$5
PER PERSON GLOBALLY
PER DAY

WHY?



IF THE WORLD DECREASED
VIOLENCE BY ONLY 10% ...

... *\$1.36 trillion*

IN ANNUAL ECONOMIC RESOURCES & ACTIVITY COULD BE GENERATED,
EQUIVALENT TO:

More than total
global foreign direct
investment in 2014

10x the total Official
Development
Assistance in 2014

The value of global
food exports in 2014

HIGHLIGHTS

SECTION 3

The economic impact of violence to the global economy was \$13.6 trillion in 2015, in purchasing power parity (PPP) terms. This figure is equivalent to approximately 11 times the size of global foreign direct investment, which was \$1.23 trillion in 2014.¹

- The global economic impact of violence was \$13.6 trillion PPP in 2015.
- This figure is equivalent to 13.3 per cent of world GDP or \$1,876 PPP for every person in the world.
- The global economic impact of violence decreased by two per cent in 2015, which is equivalent to \$246 billion PPP.
- The decrease has been driven mainly by declines in homicide, internal security expenditures and military spending in the industrialised countries.
- The global economic impact of violence is approximately 11 times the size of global foreign direct investment, which was \$1.23 trillion in 2014.
- Syria, Iraq and Afghanistan incur the largest economic impact as a percentage of their GDP at 54, 54 and 45 per cent of GDP respectively.
- The global per capita economic impact of violence was \$1,876 PPP. This is \$5 per day, per person or approximately three times the daily poverty line of \$1.90 PPP.
- The direct cost of violence in 2015 is 30 times the amount spent on official development assistance (ODA) in 2014.
- A ten per cent decrease in the economic impact of violence would produce a peace dividend of \$1.36 trillion PPP. This dividend would be equivalent to global food exports in 2014.²
- The spending on peacebuilding and peacekeeping is proportionally small compared to the economic losses from armed conflict. Peacebuilding and peacekeeping expenditures represent two per cent of global losses from armed conflict in 2015.

IEP estimates of the economic impact of violence include direct and indirect costs and a multiplier effect that measures the flow on effect that would accrue were these expenditures allocated to more productive areas of the economy.

Global military expenditures are the largest component, at \$6.16 trillion PPP. Global military expenditure has declined by ten per cent in the last three years but it still remains considerably higher than its level in 1960.³ The United States and China have the highest expenditure on the military, with 38 and 10 per cent, respectively, of the global share.

Interpersonal violence, which includes homicides and violent and sexual assaults, accounts for 17 per cent of the global economic impact of violence and was \$2.3 trillion PPP in 2015. The largest cost associated with interpersonal violence is from homicide and was calculated at \$1.79 trillion PPP, equivalent to 13 per cent of the total. Central America and the Caribbean is the region most affected by homicides, followed by South America.

The global economic impact of armed conflict was \$742 billion PPP in 2015. The Middle East and North Africa is the region most affected, resulting in a per person cost of conflict at \$464 PPP. The economic impact of deaths from internal armed conflict has increased four times from its 2007 level and now stands at \$133 billion PPP. In contrast, the losses from external battle deaths have dropped by 70 per cent in the last nine years due to the drawdown of coalition forces in Iraq and Afghanistan.

Despite the deterioration in global peacefulness, the global economic impact of violence decreased by two per cent in 2015, which is equivalent to \$246 billion PPP. This decline has been driven mainly by three changes in large industrialised countries: the decline in homicide, domestic security expenditures and military spending.

METHODOLOGY

The global economic impact of violence is defined as the expenditure and economic effect related to “*containing, preventing and dealing with the consequences of violence.*” The estimates include the direct and indirect cost of violence as well as an economic multiplier. The multiplier effect calculates the additional economic activity that would have accrued if the direct costs of violence had been avoided.

Expenditure on containing violence is economically efficient when it effectively prevents violence for the least amount of spending. However, spending beyond an optimal level has the potential to constrain a nation’s economic growth. Therefore, achieving the right levels of spending on expenditures such as the military, judicial and security services is important for the most productive use of capital.

This study includes two types of costs: direct and indirect costs. Examples of direct costs include medical costs for victims of violent crime, capital destruction from violent conflict and costs associated with the security and judicial systems. Indirect costs include lost wages or productivity from crime due to physical and emotional trauma. There is also a measure of the impact of fear on the economy, as people who fear that they may become a victim of violent crime alter their behaviour.⁴

An important aspect of IEP’s estimation is the international comparability of the country estimates, thereby allowing cost/benefit analysis of country interventions. The methodology uses constant purchasing power parity (PPP) international dollars.

IEP estimates the economic impact of violence using a comprehensive aggregation of costs related to violence, armed conflict and spending on military and internal security services. The GPI is the initial point of reference for developing the estimates. The 2015 version of the economic impact of violence includes 16 variables in three groups.

TABLE 3.1 VARIABLES INCLUDED IN THE ECONOMIC IMPACT OF VIOLENCE, 2015

SECURITY SERVICES AND PREVENTION ORIENTED COSTS	ARMED CONFLICT-RELATED COSTS	INTERPERSONAL VIOLENCE
Military expenditure	Direct costs of deaths from internal violent conflict	Homicides
Internal security expenditure	Direct costs of deaths from external violent conflict	Violent assault
Private security	Indirect costs of violent conflict (GDP losses due to conflict)	Sexual assault
UN peacekeeping	Losses from status as refugees and IDPs	Fear of crime
ODA peacebuilding expenditure	Small arms imports	Indirect costs of incarceration
	Terrorism	

BOX 3.1 THE MULTIPLIER EFFECT

The multiplier effect is a commonly used economic concept, which describes the extent to which additional expenditure improves the wider economy. Every time there is an injection of new income into the economy this will lead to more spending which will, in turn, create employment, further income and additional spending. This mutually reinforcing economic cycle is known as the ‘multiplier effect’ and is the reason that a dollar of expenditure can create more than a dollar of economic activity.

Although the exact magnitude of this effect is difficult to measure, it is likely to be particularly high in the case of expenditure related to containing violence. For instance, if a community were to become more peaceful, individuals would spend less time and resources protecting themselves against violence. Because of this decrease in violence there are likely to be substantial flow-on effects for the wider economy, as money is diverted towards more productive areas such as health, business investment, education and infrastructure.

When a homicide is avoided, the direct costs, such as the money spent on medical treatment and a funeral, could be spent elsewhere. The economy also benefits from the lifetime

income of the victim. The economic benefits from greater peace can therefore be significant. This was also noted by Brauer and Tepper-Marlin (2009) who argued that violence or the fear of violence may result in some economic activities not occurring at all.⁵ More generally, there is strong evidence to suggest that violence and the fear of violence can fundamentally alter the incentives for business. For instance, analysis of 730 business ventures in Colombia from 1997 to 2001 found that with higher levels of violence, new ventures were less likely to survive and profit. Consequently, with greater levels of violence it is likely that we might expect lower levels of employment and economic productivity over the long-term, as the incentives faced discourage new employment creation and longer-term investment.⁶

This study assumes that the multiplier is one, signifying that for every dollar saved on violence containment, there will be an additional dollar of economic activity. This is a relatively conservative multiplier and broadly in line with similar studies.⁷

The analysis presents conservative estimates of the global economic impact of violence. The estimation only includes variables of violence for which reliable data could be obtained. The following elements are examples of some of the items not counted in the economic impact of violence:

- Domestic violence
- Violence against children and the elderly
- Household out-of-pocket spending on safety and security
- The cost of crime to business
- Spill over effects from conflict and violence
- Intimate partner violence
- Self-directed violence
- The cost of intelligence agencies
- Judicial system expenditures

The total economic impact of violence includes the following components:

- **Direct costs** are the cost of violence to the victim, the perpetrator, and the government. These include direct expenditures, such as the cost of policing.
- **Indirect costs** accrue after the violent event and include indirect economic losses, physical and physiological trauma to the victim and lost productivity.
- **The multiplier effect** represents the flow-on effects of direct costs, such as additional economic benefits that would come from investment in business development or education instead of containing or dealing with violence. Box 3.1 provides a detailed explanation of the peace multiplier used.

The term **cost of violence containment** is used to explain the combined effect of direct and indirect costs. When a country avoids the economic impact of violence, it realises a **peace dividend**.

ECONOMIC IMPACT OF VIOLENCE

RESULTS

Whilst the world experienced a slight increase in violence last year, the economic impact of violence moved in the opposite direction and decreased by two per cent. The deterioration in global peacefulness was largely attributable to increases in terrorism, higher levels of conflict in the Middle East and North Africa and increases in the number of refugees and internally displaced people.

Meanwhile, the decrease in the overall economic impact of violence has largely been driven by the decrease in the economic impact of homicides, internal security and military spending in the advanced western economies. The economic impact of homicide accounted for the majority of the reduction, decreasing by \$134 billion PPP or seven per cent from 2014 to 2015. Internal security expenditure, which captures incarceration and police expenses, accounted for the remaining amount, declining globally by three per cent or \$118 billion PPP in 2015.

The driver of the reduction in the economic impact of internal security spending was reduced spending in Russia and Kazakhstan but also regionally in Eurasia and Europe. Russia has seen very significant declines in internal security spending due to the plan to cut the Interior Ministry's budget by more than 10 per cent in 2015.⁸ The cuts are directly related to the country's economic recession.

The single largest item was global military expenditure, which reached \$6.16 trillion PPP, or 45 per cent of the economic impact of violence in 2015. According to IEP data, global military expenditure decreased slightly in 2015, by one per cent or \$67 billion PPP.⁹ The decline was driven by continued cuts to US military expenditure, which decreased by 21 per cent from its peak in 2010.¹⁰

Due to the greater size of per capita income in the advanced economies, changes in underlying measures have a greater impact on the global model. Violence containment spending does not always follow the global trends of peacefulness, as there are some categories of expenditure which are more expensive than others.

Regionally, military expenditure showed some countervailing trends, decreasing the most in Europe followed by South America, North America and sub-Saharan Africa. In contrast, military expenditure increased in Asia-Pacific and South Asia in 2015. The increasing military spending in Asia-Pacific is primarily driven by China's military build-up, which saw the military budget rise by approximately ten per cent in 2015.

“The global economic impact of violence was \$13.6 trillion in 2015, or 13.3% of world GDP.

In the case of the US, military-related expenditures such as the significant spending on Veterans Affairs, the maintenance of the nuclear arsenal and interest payments on military-related debt are also included in the accounting. Due to the size of these expenditures, at \$848 billion, and the significance of the US military, it is shown as a separate line item. The US is the only country where these expenditures have been accounted for due primarily to their size and transparent accounts.

There are large regional disparities in military spending. North America and MENA have the highest levels of military expenditure per capita, when calculated on the same basis, while South Asia and sub-Saharan Africa have the lowest levels in per capita terms.

The second largest contributor to the economic impact of violence in 2015 was internal security, which accounted for 26 per cent of the total. Internal security expenditure includes spending on the police and prison systems as well as the indirect costs associated with incarceration. The data for internal security spending is obtained from the OECD and the IMF.¹¹

TABLE 3.2 ECONOMIC IMPACT OF VIOLENCE 2015,
BILLIONS PPP

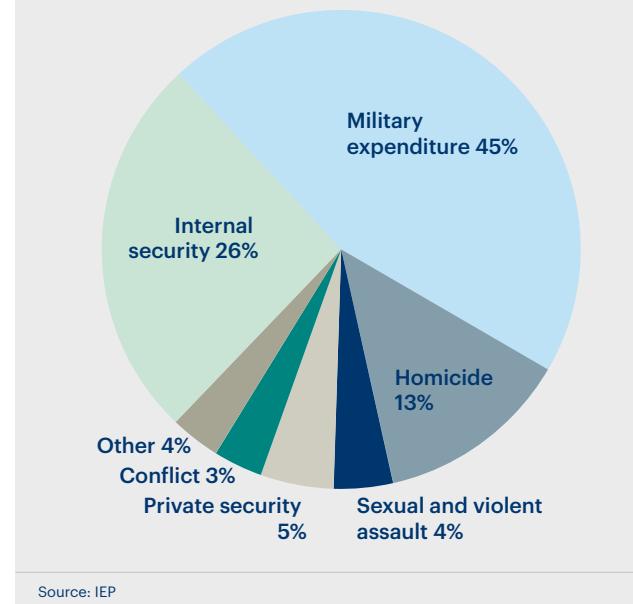
CATEGORY	IMPACT OF DIRECT COST WITH MULTIPLIER	IMPACT OF INDIRECT COST	TOTAL
Internal security expenditure	3,434.6	98.6	3,533.2
Deaths from external conflict	1.0	-	1.0
Fear	-	119.5	119.5
GDP losses due to conflict	-	317.4	317.4
Homicide	309.9	1,482.7	1,792.6
Deaths from internal conflict	133.1	-	133.1
Military expenditure	4,461.8	-	4,461.8
US Military related expenditure ¹²	1,696.4	-	1,696.4
Peacebuilding and peacekeeping expenditure	45.5	-	45.5
Private security spending	672.8	-	672.8
Refugees and IDPs	5.5	169.0	174.5
Sexual and violent assault	85.2	459.5	544.6
Small arms	8.3	-	8.3
Terrorism	19.6	93.9	113.5
TOTAL	10,873.6	2,740.6	13,614.2

Source: IEP

Homicides, at 13 per cent, was the third largest category. The economic impact of homicide in 2015 was approximately \$1.79 trillion PPP. Economic costs arising from intentional homicides are greater than the costs of any other category of crime or conflict. The model accounts for the costs related to the victim and perpetrators of crime. The indirect costs of homicide are extremely high, as victims of homicide can have no positive influence on productivity, unlike other crimes where the victim may be able to contribute to the economy after recovery; therefore their lifetime earnings are a loss to the economy. Reflecting this, the economic impact of violent and sexual assault was three times less than the impact of homicide. In 2015 violent and sexual crimes accounted for \$545 billion PPP or four per cent of the global economic impact of violence.

FIGURE 3.1 BREAKDOWN OF THE ECONOMIC IMPACT OF VIOLENCE, 2015

Over 70 per cent of the economic impact of violence accrues from spending on military and internal security.



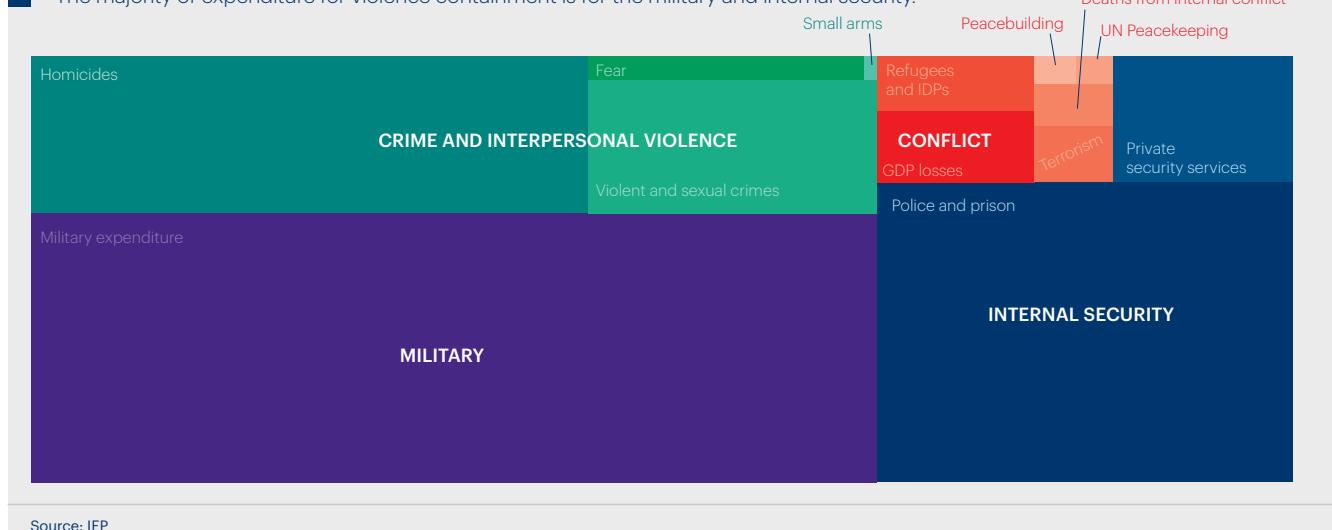
Source: IEP

Direct costs of homicide and violent crime include medical costs, lost earnings and damages to the victim and the perpetrator. Indirect costs include the lost productivity of the victim, family and friends due to psychological trauma. High levels of crime impose social costs through increased government spending on public health, the criminal justice system and policing. Crime also reduces economic activity and consumption and adversely affects the business climate.¹³

The economic impact of external and internal conflict was \$452 billion PPP and represents three per cent of the total. This figure is highly conservative, as IEP estimates of the economic impact of violent conflict only include in-country effects and do not provide estimates for the negative flow-on effects to other economies.

FIGURE 3.2 COMPOSITION OF GLOBAL VIOLENCE CONTAINMENT, 2015

The majority of expenditure for violence containment is for the military and internal security.



Source: IEP

Despite the deterioration in global peace from 2014 to 2015, the global economic impact of violence in fact decreased by two per cent, or \$246 billion PPP, in 2015. This decline has been driven mainly by three changes in large industrialised countries: the decline in economic impact from homicide, domestic security expenditures and military spending.

Table 3.3 sets out the year-on-year change in the economic impact of violence, showing the categories by improvement in descending order. The category that improved the most was homicides, which declined by seven per cent or \$134 billion PPP. The economic impact of the second largest category, internal security expenditure, also improved three per cent, which was equivalent to \$117 billion PPP.

The economic impact of deaths from internal conflict increased by 15 per cent or \$17 billion PPP, reflecting the increased intensity of armed conflicts in the MENA region and Afghanistan. In contrast, the economic impact of deaths from external conflict has decreased by 70 per cent from its 2007 level but increased slightly in 2015, by \$300 million PPP.

Armed conflict also has economic flow-on effects that spill over into neighbouring countries. During the period from 2012 to 2014, Lebanese real GDP growth was reduced by 2.9 per cent per annum due to the Syrian civil war. The total fiscal cost of the Syrian civil war to Lebanon is over US\$5 billion and includes the costs associated with accommodating high levels of refugees.¹⁴ This is an example of figures that are not included in the model.

The indirect cost of conflict comprises the lost productivity resulting from the diversion of public and private capital from productive activities to conflict-related activities. Additionally, it also captures the destruction of capital due to violent conflict.¹⁵ The GDP losses due to conflict increased by four per cent in 2015 and now stands at \$317 billion PPP.

The economic impact of the fear of crime or insecurity in 2015 was \$120 billion PPP. The economic impact of fear includes indirect costs arising from the anticipation of possible victimisation. These costs include changes in the behaviour of individuals and businesses, such as reductions in consumption and production, decreased number of business transactions and lower level of trust in society. The economic impact of the fear of crime decreased by six per cent in 2015.

Although deaths from terrorism have increased by nine times since 2000, this category only accounts for one per cent of the total economic impact of violence. The model includes deaths and injuries resulting from terrorist incidents, including indirect costs, but does not include property damage. In 2015 the economic impact of terrorism was \$113 billion PPP. There has also been an increase in expenditure on counterterrorism. European countries, for example, increased counterterrorism expenditure over 16 times in eight years, from €5.7 million in 2002 to €93.5 million in 2009 and is captured in the study under the internal security category.¹⁶

The economic impact of population displacement, measured as the number of refugees and IDPs, was \$175 billion PPP or one per cent of the economic impact of violence in 2015. This is an increase of nearly eight times from 2007, largely due to the increase in refugees fleeing the Syrian civil war. Direct refugee and internal displacement costs were \$12 billion in 2007 and increased to \$90.7 billion in 2015.

Changes in violence containment expenditure over the last decade generally reflect trends in peace. The shift away from armed conflicts between states has meant that fewer countries are impacted by the economic costs of conflict. However, those countries that are currently affected by violent conflict are very heavily impacted. For example, in Syria it is estimated that the civil war has cost 54 per cent of GDP.

A higher level of peacefulness in a country reduces the economic impact of violence; the least peaceful countries have a higher economic impact relative to the size of their economies than more peaceful countries.

Figure 3.3 shows that there is a significant difference in the economic impact of violence as a percentage of GDP between less and more peaceful countries. The correlation between overall GPI score and the economic impact of violence as a percentage of GDP in 2015 is r=0.7.

TABLE 3.3 CHANGES IN THE ECONOMIC IMPACT OF VIOLENCE FROM 2014–2015

CATEGORY	ECONOMIC IMPACT 2014 (BILLIONS)	ECONOMIC IMPACT 2015 (BILLIONS)	CHANGE (BILLIONS)	CHANGE (%)
			2014-2015	2014-2015
Homicide	1,926.2	1,792.6	-133.6	-7%
Internal security expenditure	3,651.0	3,533.2	-117.8	-3%
Military expenditure	4,529.1	4,461.8	-67.3	-1%
Refugees and IDPs	188.9	174.5	-14.4	-8%
Terrorism	126.8	113.5	-13.3	-10%
Fear	127.5	119.5	-7.9	-6%
Sexual and violent assault	547.7	544.6	-3.1	-1%
Deaths from external conflict	0.7	1.0	0.3	44%
Private security spending	671.8	672.8	1	0%
Peacekeeping and peacebuilding spending	42.8	45.5	2.7	6%
GDP losses due to conflict	304.8	317.4	12.6	4%
Deaths from internal conflict	115.7	133.1	17.4	15%
US military related expenditure	1,619.3	1,696.4	77.1	5%
Small arms	8.3	8.3	-	0%
Total	13,860.6	13,614.2	-246.4	-2.0%

Source: IEP

REGIONAL ANALYSIS

The economic impact by type of expenditure is not evenly distributed across regions, with large variations in both the magnitude of expenditure and its composition. Figure 3.4 illustrates the proportion by category for each region. The highest proportion of military expenditure was in North America, where it accounts for 78 per cent of the total economic impact. Europe proportionally spends the most on internal and private security, with this category making up 56 per cent of the economic impact of violence.

In contrast, Central America and the Caribbean has the highest proportion of expenditure related to interpersonal violence, at 56 per cent. This region has very high levels of interpersonal violence and accordingly incurs high costs from intentional homicides, violent and sexual assault and the fear of crime. For example, the economic impact of homicide in Venezuela and Honduras is the equivalent of 36 and 30 per cent of GDP respectively. South Asia and MENA are the worst affected regions for armed conflict.

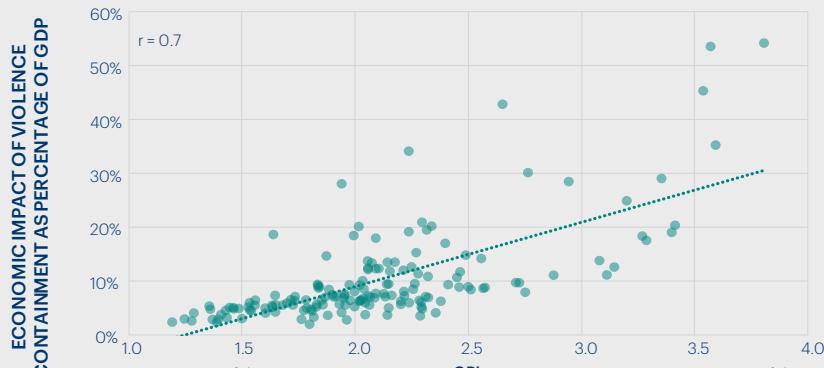
COUNTRIES WHERE VIOLENCE HAS THE GREATEST ECONOMIC IMPACT

The economic impact of violence for the ten most affected countries accounts for more than 25 per cent of their GDP. They either have high levels of internal conflict or high levels of interpersonal violence. Syria has the highest proportion of its GDP related to violence containment expenditure at 54 per cent.

Of the ten countries where violence containment expenditure is proportionally the largest, five are experiencing armed conflict. These are Syria, Iraq, Afghanistan, South Sudan and the Central African Republic. The other countries have very high levels of interpersonal violence, with the exception of North Korea which is a highly militarised country. Figure 3.5 highlights the ten countries whose economic impact of violence relative to the size of their economy is the highest in the world.

FIGURE 3.3 ECONOMIC IMPACT OF VIOLENCE CONTAINMENT AS PROPORTION OF GDP COMPARED TO LEVELS OF PEACE IN 2015

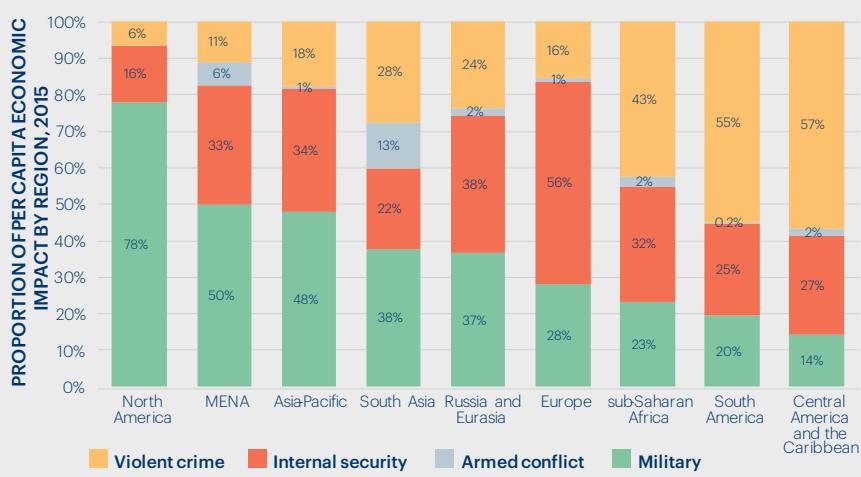
The economic impact of violence containment is higher in less peaceful countries.



Source: IEP

FIGURE 3.4 REGIONAL ECONOMIC IMPACT OF VIOLENCE BY SPENDING TYPE, 2015

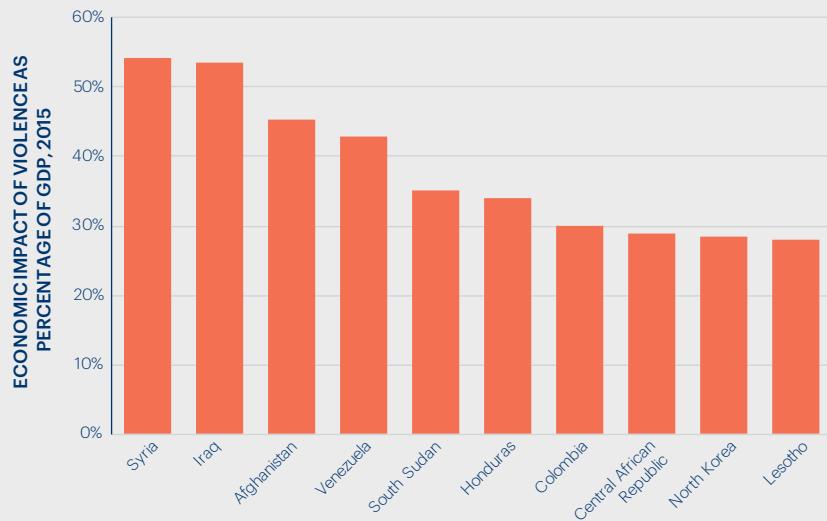
The combined impact of the military and internal security accounts for the highest category of spending in all regions aside from Central America and the Caribbean and South America.



Source: IEP

FIGURE 3.5 TEN COUNTRIES WITH HIGHEST ECONOMIC IMPACT OF VIOLENCE AS PERCENTAGE OF GDP

Conflict and organised crime are the major drivers that create a high economic impact from violence in these countries.



Source: IEP

PEACEBUILDING & PEACEKEEPING SPENDING COMPARED TO THE COST OF CONFLICT

Peacebuilding and peacekeeping operations are extremely important in preventing and dealing with violent conflict. Peacekeeping operations are measures aimed at responding to a conflict, whereas peacebuilding expenditures are aimed at developing and maintaining the capacities for resilience to conflict. Thus peacebuilding seeks to enable a country to sustain and develop peace over the long term.

This is done through building the core functions of government, ensuring basic levels of safety and security and increasing the internal capacity for dispute resolution by supporting inclusive political process, among other measures. Therefore, peacebuilding is more targeted than peacekeeping in creating the attitudes, institutions and structures that create and sustain peace in a conflict-affected country.

Peacebuilding expenditure aims to reduce the risk of lapsing or relapsing into violent conflict by strengthening national capacities and institutions for conflict management and laying the foundations of sustainable peace and development. These activities are distinct from peacekeeping activity, which is broadly aimed at responding to a conflict and establishing security.

Peacebuilding and peacekeeping related activities in conflict-affected countries are a small proportion of ODA. In 2013, peacebuilding and peacekeeping investments of \$US6.8 and \$US8.3 billion in were equivalent to nine per cent of total ODA, \$US167 in that year.

Fragile and conflict-affected countries are in greater need of investment in peacebuilding to ensure they do not fall back into conflict. To ascertain the current level of aid spent on peacebuilding activities in conflict-affected countries, IEP undertook an assessment of the yearly expenditures that go into peacebuilding. The analysis is conducted using donor expenditures as measured by the Organisation for Economic Cooperation and Development

(OECD) Development Assistance Committee (DAC) Creditor Reporting System (CRS). More details on the categories of expenditure included are provided in Box 3.2.

Figure 3.6 highlights that the spending on peacebuilding and peacekeeping is small compared to the economic losses caused by conflict, representing 0.9 per cent 1.1 per cent respectively in 2015.

BOX 3.2 CATEGORIES OF PEACEBUILDING EXPENDITURE

The following 17 categories based on three peacebuilding priority areas, identified as peacebuilding expenditure by the 2009 Report of the Secretary-General on Peacebuilding in the immediate aftermath of conflict (A/63/881 S/2009/304), were taken into consideration.

Priority area 1: Basic safety and security

- Security system management and reform
- Reintegration and small arms and light weapons (SALW) control
- Removal of land mines and explosive remnants of war
- Child soldiers (prevention and demobilisation)
- Participation in international peacekeeping operations

Priority area 2: Inclusive political processes

- Legal and judicial development
- Legislatures and political parties
- Anti-corruption organisations and institutions
- Democratic participation and civil society
- Media and free flow of information
- Human rights
- Women's equality organisations and institutions
- Civilian peacebuilding, conflict prevention and resolution

Priority area 3: Core Government Functions

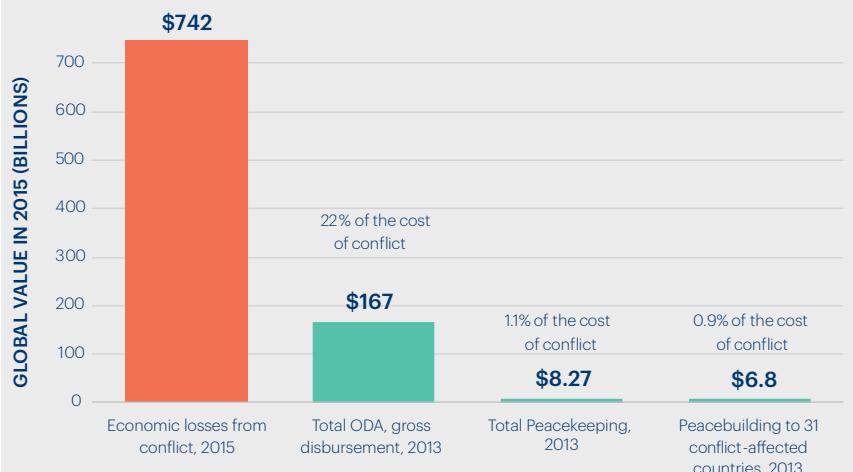
- Public sector policy and administrative management
- Public finance management
- Decentralisation and support to subnational government

Other

- Specific peace-related expenditures

FIGURE 3.6 COST OF CONFLICT COMPARED TO OFFICIAL DEVELOPMENT ASSISTANCE, UN PEACEKEEPING AND PEACEBUILDING SPENDING

Peacebuilding expenditure is proportionally small compared to the economic losses from conflict.



Source: IEP

POSITIVE PEACE & SYSTEMS THINKING



WHAT IS POSITIVE PEACE?

NEGATIVE PEACE

... is the absence of violence or fear of violence



POSITIVE PEACE

... is the attitudes, institutions and structures which create and sustain peaceful societies.



- Positive Peace is defined as the attitudes, institutions and structures which create and sustain peaceful societies. These same factors also lead to many other positive outcomes which society feels are important. Therefore Positive Peace is described as creating the optimum environment for human potential to flourish.
- Positive Peace has been empirically derived by IEP via the statistical analysis of thousands of cross-country measures of economic and social progress to determine what factors are statistically significantly associated with Negative Peace.
- Positive Peace is measured by the Positive Peace Index (PPI) which consists of eight domains, each containing three indicators, totalling 24. This provides a baseline measure of the effectiveness of a country's institutions and attitudes to build and maintain peace. It also provides a measure for policymakers, researchers and corporations to use for monitoring and evaluation efforts.
- Positive Peace factors can be used as the basis for empirically measuring a country's resilience, or ability to absorb and recover from shocks. It can also be used to measure fragility and to help predict the likelihood of conflict, violence and instability.
- There is a close relationship between Positive Peace and violence as measured by Negative Peace.

POSITIVE PEACE FACTORS

IEP's framework for Positive Peace is based on eight factors. The Positive Peace factors not only sustain peace but also support an environment where human potential flourishes. They interact in complex ways, are multidimensional and are generally slow moving.

THE PILLARS OF PEACE



Sound business environment



Good relations with neighbours



High levels of human capital



Acceptance of the rights of others



Low levels of corruption



Well functioning government



Free flow of information



Equitable distribution of resources

WHY POSITIVE PEACE IS TRANSFORMATIONAL

SECTION 4

Humanity is now facing challenges unparalleled in its history. The most urgent of these, such as climate change, decreasing biodiversity, increasing migration and over-population, are global in nature. These issues call for international cooperation on an unprecedented scale. Furthermore, the sources of these challenges are multidimensional, increasingly complex and span national borders. For these reasons, finding solutions requires fundamentally new thinking.

Peace is an essential prerequisite in working to resolve these challenges. Without peace, it will not be possible to achieve the levels of trust, cooperation or inclusiveness necessary to solve these challenges, let alone empower the international institutions and organisations required to help address them.

Without an understanding of the factors that support peace, it is impossible to determine the policies that work, the programmes that need to be implemented, and when, how, and where to introduce them. Practically identifying what resources are required is complex and calls for a shift towards new ways of thinking about peace.

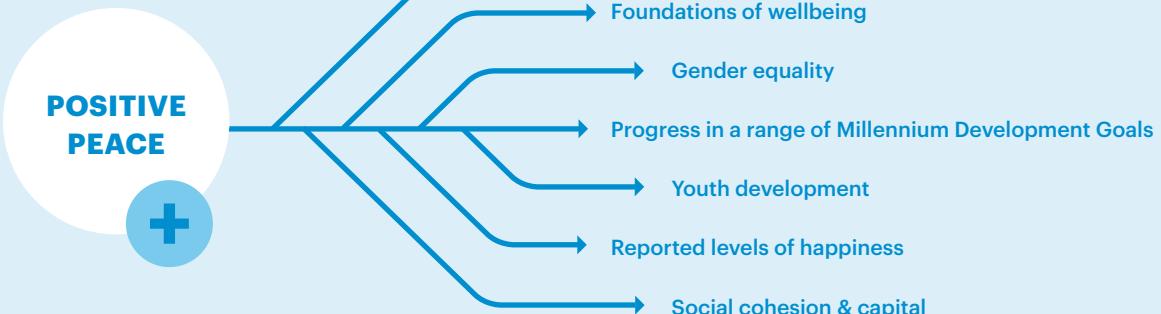
Positive Peace provides a framework to understand and then address the multiple and complex challenges the world faces. Positive Peace is transformational in that it is a cross-cutting facilitator for improving progress, making it easier for businesses to sell, entrepreneurs and scientists to innovate, individuals to produce, and governments to effectively regulate.

In addition to the absence of violence, Positive Peace is also associated with many other social characteristics that are considered desirable, including better economic outcomes, measures of wellbeing, levels of gender equality and environmental performance. In this way, Positive Peace can be thought of as creating an optimal environment in which human potential can flourish.

Understanding what creates sustainable peace cannot be found in the study of violence alone.

A parallel can be drawn with medical science. The study of pathology has led to numerous breakthroughs in our understanding of how to treat and cure disease. However, it was only when medical science turned its focus to the study of healthy human beings that we understood what we needed to do to stay healthy: the correct physical exercise, a good mental disposition and a balanced diet, are some examples. This could only be learned by studying what was working. In the same way, the study of conflict is different than the study of peace.

Seen in this light, Positive Peace can be used as an overarching framework for understanding and achieving progress not only in levels of global peacefulness, but in the many other interrelated areas, such as those of economic and social advancement.



INTRODUCTION

This section of the 2016 GPI report provides a description of complex systems thinking in relation to Positive Peace and the nation state and presents new research on the link between Positive Peace, which represents “*the attitudes, institutions and structures which sustain peace*”, and broader societal resilience.

This section introduces systems thinking as it has developed in biology and ecology, then applies it to the nation state. Doing so offers a new and innovative way in which to view a host of old problems.

The section also builds upon these concepts in its discussion on the resilience of nation states. Resilience is commonly understood to relate to two main properties: a country’s ability to absorb and recover from shocks, and its ability to adapt, evolve and improve in challenging circumstances.

Through empirical analysis, it is shown that Positive Peace offers a framework by which to explore these properties.

Countries with high levels of Positive Peace, for example, suffer fewer effects from natural disasters, including 13 times fewer fatalities compared to low Positive Peace countries.

Furthermore, Positive Peace levels relate to a country’s reaction to different systemic shocks. While high Positive Peace countries are subject to more economic shocks, major internal shocks such as violent political change, violent conflict, and genocide, typically occur in low Positive Peace countries. Trends in the GPI also show that high Positive Peace is a significant determinant of long term improvements in peace.

KEY FINDINGS

- High Positive Peace countries are more likely to maintain stability, adapt and recover from shocks as they overcome challenges.
- Countries that are high in Positive peace are more likely to maintain high levels of peace.
- Twice as many high Positive Peace countries improved in peace between 2008 and 2016 when compared to countries with low Positive Peace.
- Eighty-four per cent of major political shocks occurred in low Positive Peace countries.
- Numbers of lives lost from natural disasters between 2005 and 2015 were 13 times larger in low Positive Peace countries than in high Positive Peace countries, a disproportionately high ratio when compared to the distribution of incidents.

UNDERSTANDING POSITIVE PEACE

The analysis in this report is based on two simple but useful definitions of peace, each of which has a long history in peace studies – Negative Peace and Positive Peace. These two commonly referenced definitions of peace were categorised by one of the founders of modern peace studies, Johan Galtung.

According to his view, Negative Peace is the absence of violence or fear of violence – an intuitive definition that many agree with and one which enables peace to be measured more easily. Measures of Negative Peace are used to construct the GPI.

A more ambitious conceptualisation of peace is Positive Peace. Well-developed Positive Peace represents the capacity for a society to meet the needs of its citizens, reduce the number of grievances that arise and resolve remaining disagreements without the use of violence. IEP defines Positive Peace as the attitudes, institutions and structures that create and sustain peaceful societies.

BOX 4.1 KEY TERMS

Positive Peace: the presence of the attitudes, institutions and structures that create and sustain peaceful societies.

Negative Peace: the absence of direct violence or fear of violence.

Conflict: a disagreement between two or more individuals or groups. Conflict can either be nonviolent or violent and, depending on how it is dealt with, can be either constructive or destructive.

Resilience: the ability of nations to absorb and recover from shocks. High levels of Positive Peace enhance resilience in situations like natural disasters or economic shocks.

Shock: a sudden change from inside or outside the system that has the potential to cause harm.

Encoded norms: the values by which society self-organises.

Homeostasis: a persistent state of self-regulating and balanced stability.

Self-modification: a process by which society modifies itself to accommodate new situations and challenges.

Human beings encounter conflict regularly – whether at home, at work, among friends, or on a more systemic level between ethnic, religious or political groups. But the majority of these conflicts do not result in violence. Most of the time individuals and groups can reconcile their differences without resorting to violence by using mechanisms such as societal attitudes that curtail violence or legal systems designed to reconcile grievances. Conflict provides the opportunity to negotiate or renegotiate a social contract, and as such it is possible for constructive conflict to involve *nonviolence*.¹ Positive Peace facilitates change and adaptation to new dynamics.

This section describes how Positive Peace can instruct us to build and reinforce the attitudes, institutions and structures that pre-empt conflict or help societies channel disagreements productively rather than falling into violence. Findings from the Global Partnership for the Prevention of Armed Conflict's (GPPAC) review of civil society and conflict conclude that, "When tensions escalate into armed conflict, it almost always reflects the break down or underdevelopment of routine systems for managing competing interests and values and resulting in the failure to satisfy basic human needs."² Thus, the Positive Peace framework draws out the aspects of societies that prevent these breakdowns, based on their statistical association with the absence of violence.

The distinguishing feature of IEP's work on Positive Peace is that it has been empirically derived through quantitative analysis. There are few known empirical frameworks available to analyse Positive Peace. Historically it has largely been understood qualitatively and based on idealistic concepts of a peaceful society. Instead, IEP's Positive Peace framework is based on the quantitatively identifiable common characteristics of the world's most peaceful countries. In order to address the gap in this kind of quantitative research, IEP utilises the time series data contained in the GPI, in combination with existing peace and development literature to statistically analyse the characteristics peaceful countries have in common. An important aspect of this approach is to avoid value judgement and allow statistical analysis to explain the key drivers of peace.

BOX 4.2 THE POSITIVE PEACE INDEX

IEP measures Positive Peace using the Positive Peace Index (PPI), which measures the level of Positive Peace in 162 countries, covering 99 per cent of the world's population. The PPI is composed of 24 indicators to capture the eight domains of Positive Peace. Each of the indicators was selected based on the strength of its statistically significant relationship to the absence of violence. For more information and the latest results of the PPI, see the 2015 Positive Peace Report, available from www.visionofhumanity.org.



IEP HAS IDENTIFIED EIGHT KEY DOMAINS, OR PILLARS, THAT COMPRIZE POSITIVE PEACE:



Well-Functioning Government

A well-functioning government delivers high-quality public and civil services, engenders trust and participation, demonstrates political stability, and upholds the rule of law.



Sound Business Environment

Sound business environment – The strength of economic conditions as well as the formal institutions that support the operation of the private sector and determine the soundness of the business environment. Business competitiveness and economic productivity are both associated with the most peaceful countries, as is the presence of regulatory systems that are conducive to business operations.



Equitable Distribution of Resources

Peaceful countries tend to ensure equity in access to resources such as education and health, as well as, although to a lesser extent, equity in income distribution.



Acceptance of the Rights of Others

Formal laws guaranteeing basic human rights and freedoms and the informal social and cultural norms that relate to behaviours of citizens serve as proxies for the level of tolerance between different ethnic, linguistic, religious, and socio-economic groups within the country. Similarly, gender equality and worker's rights are important components of societies that uphold acceptance of the rights of others.



Good Relations with Neighbours

Peaceful relations with other countries are as important as good relations between groups within a country. Countries with positive external relations are more peaceful and tend to be more politically stable, have better functioning governments, are regionally integrated and have lower levels of organised internal conflict. This factor is also beneficial for business and supports foreign direct investment, tourism and human capital inflows.



Free flow of information

Free and independent media disseminates information in a way that leads to greater openness and helps individuals and civil society work together. This is reflected in the extent to which citizens can gain access to information, whether the media is free and independent, and how well-informed citizens are. This leads to better decision-making and more rational responses in times of crisis.



High levels of human capital

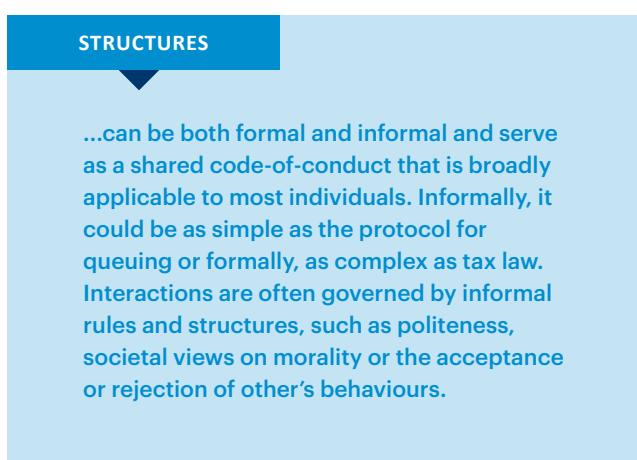
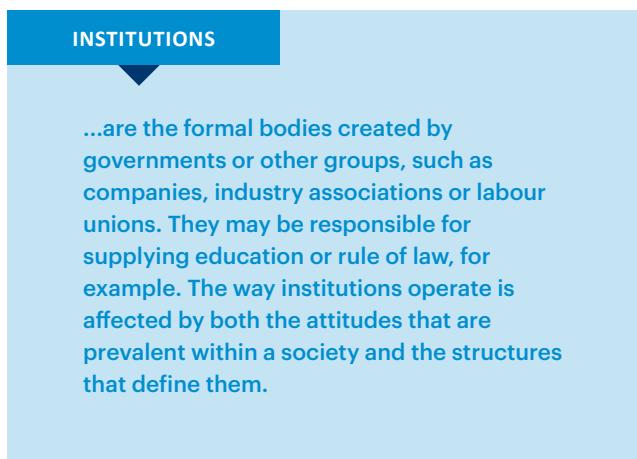
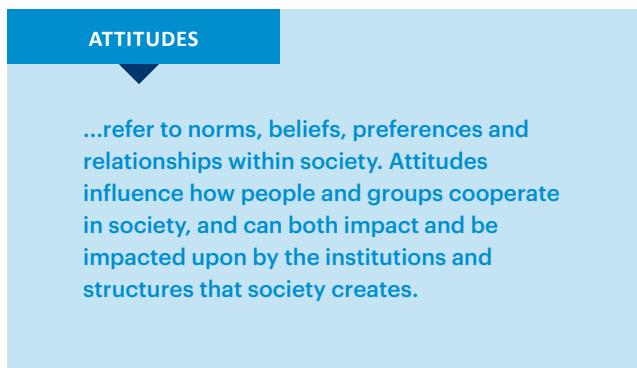
A skilled human capital base reflects the extent to which societies educate citizens and promote the development of knowledge, thereby improving economic productivity, care for the young, enabling political participation and increasing social capital. Education is a fundamental building block through which societies can build resilience and develop mechanisms to learn and adapt.



Low levels of corruption

In societies with high corruption, resources are inefficiently allocated, often leading to a lack of funding for essential services. The resulting inequities can lead to civil unrest and in extreme situations can be the catalyst for more serious violence. Low corruption can enhance confidence and trust in institutions.

These pillars interact with and affect society's attitudes, institutions and structures. High levels of Positive Peace occur where attitudes make violence less tolerated, institutions are more responsive to society's needs and structures underpin the nonviolent resolution of grievances.



Attitudes, institutions and structures are all highly interrelated, and can be difficult to distinguish. But what is more important than the drawing of clear lines between them is the understanding of how they interact as a whole.

IEP does not attempt to determine the specific attitudes, institutions and structures necessary for Positive Peace, as these will very much be dependent on cultural norms and specific situations. What is appropriate in one country may not be appropriate in another.

FIGURE 4.1 THE PILLARS OF POSITIVE PEACE

The factors of Positive Peace are highly interconnected and interact in varied and complex ways.



Source: IEP

POSITIVE PEACE HAS THE FOLLOWING CHARACTERISTICS:

- **Systemic and complex:** it is complex; progress occurs in non-linear ways and can be better understood through relationships and communication flows rather than through a linear sequence of events.
- **Virtuous or vicious:** it works as a process where negative feedback loops or vicious cycles of violence can be created and perpetuated or, alternatively, positive feedback loops are where virtuous cycles of peace are created and perpetuated.
- **Preventative:** though overall Positive Peace levels tend to change slowly over time, building strength in relevant pillars can prevent violence and violent conflict.
- **Underpins resilience and nonviolence:** Positive Peace builds the capacity for resilience and incentives for nonviolent alternatives to conflict resolution. It provides an empirical framework to measure an otherwise amorphous concept, resilience.
- **Informal and formal:** it includes both formal and informal societal factors. This implies that societal and attitudinal factors are equally as important as state institutions.
- **Supports development goals:** Positive Peace provides an environment in which development goals are more likely to be achieved.

SYSTEMS THINKING: THE NATION STATE & PEACE

By applying systems thinking to the nation state, new and unique approaches can be developed to understand how societies work, how to better manage the challenges they face and how to improve overall well-being.

The approach presented here is still in its early stages of development but aims to provide a fundamentally new framework for envisioning societies. There is a clear need to better understand how countries can make institutions more relevant to their citizens, be better able to adapt to global challenges, as well as be more certain about how to effectively increase economic wealth and human fulfilment. In an age when serious threats to humanity are posed by our interactions with the natural world through changes in the atmosphere, oceans and biodiversity, systems thinking can help us better understand our collective interdependence on these systems and the interdependence between nations.

Positive Peace is the framework developed by IEP that describes the factors associated with peaceful societies. It consists of eight domains that interact in multi-faceted ways, where the importance of each domain and direction of causality will vary, depending on individual circumstances. Systems thinking provides a mechanism with which to understand how Positive Peace operates and how to better apply it in developing policy.

Systems theory first originated while attempting to better understand the workings of organic organisms, such as cells or the human body. Through such studies, it became clear that merely understanding the individual characteristics of parts of a system was inadequate to describe a system as a whole, which functions as much more than the sum of its parts. When applied to the nation state, this approach offers alternatives to traditional or reductionist techniques of understanding change.

There are four major properties associated with systems thinking:³

- The system cannot be reduced to its parts as individually the parts will have a different pattern of behaviour.
- The system is self-regulating. It aims to maintain a steady state by stabilising itself through feedback loops. The system adjusts to create balance between inputs, outputs and internally coded requirements so as to maintain what is termed homeostasis.

- The system is self-modifying: when there is a persistent mismatch between inputs and its codes, the system searches for a new pattern by which it can function. This creates differentiation from the original system and increases complexity.
- The system does not stand on its own. It is part of a larger system but also contains its own sub-systems. It also interacts with other similar systems. These 'systems-of-systems' adapt together.

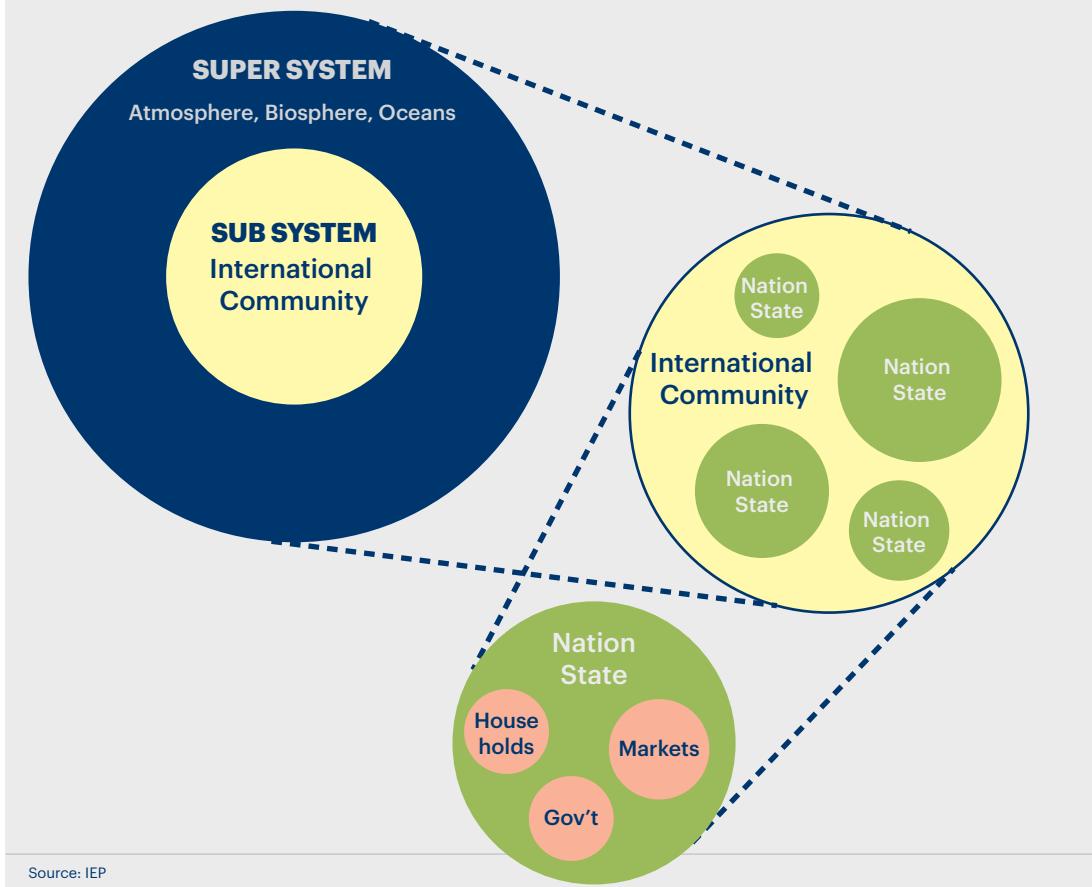
All systems are considered open, interacting with both the sub-systems within it, other similar systems and the super-system within which it is contained. The nation state is made up of many actors, units and organisations spanning the family, local communities and public and private sectors. As all of these operate both individually and interact with other institutions and organisations, each can be thought of as their own open system within the nation state. Some examples are companies, families, unions, armies or public institutions. Similarly, nation states interact with other nations through trading relations, regional body membership, diplomatic exchanges or through war.

There is one clear distinction between organisms and societies. Organisms have very clear physical boundaries. The boundaries of societies are less clear and can be somewhat arbitrary. However, the nation works well as a system. Most nations have a concept of self-identity, where citizens see themselves as belonging to it, it has control over its territory, and it can regulate and enforce laws.

Figure 4.2 illustrates different system levels that are relevant to the nation state. It shows that the nation state itself is made up of many sub-systems, including the individual, civil society and business communities. Scaling up the view, the nation state is a sub-system of the international community, in which it builds and maintains relationships with other nation states and international organisations. Finally, the international community forms a sub-system of the biosphere. It should be noted that any sub-system within the following diagram can interact with a super system at any level. For example, the individual can interact with the nation state, other nation states, the international community and the natural environment.

FIGURE 4.2 SYSTEMS AND THE NATION STATE

The nation state is both a super and sub system depending on the field of view. The smallest sub system can interact directly with the largest super system.



CAUSALITY

Inherent in our understanding of the world and the way we interact within it is the concept of causality. We take an action and expect an outcome. We are so attuned to this concept that it is built into our subconscious. We needn't think twice about each step we take when we walk down the street because of this built in understanding. In every-day life, physical actions have an effect that always results in the same outcome. The repeatability of certain scientific laws in terms of causality has enabled great strides in human progress, and is no better expressed than in the engineering marvels of today.

Assumptions of linear causality, however, imply that all outcomes can be tracked back in a linear fashion to an initial condition. The idea that things are predetermined by a set of initial conditions leaves no room for genuine novelty, standing in contradiction to our experience of reality. Linear causality is useful for explaining discrete and well-isolated physical phenomena but when multiple variables are involved it becomes increasingly difficult to truly understand the cause.

The difficulty in applying linear causality to human beings, and by extension societies, is best explained through an example. In a conversation, linear causality would imply that the same words would have the same effect on whomever they are spoken to.

However, this is clearly not the case. Take, for example, the words that are written here. Read by three different people, each could interpret them differently due to a number of factors, including their background knowledge, what they may think of the writer, or even their moods on the day. This will naturally affect their interpretation of the text and any subsequent actions related to the text.

This simple example clearly shows how individual human reactions can be unpredictable. The problem of linear causality is compounded when it is extended to social systems. In terms of the nation state, similar actions will result in very different outcomes in the various countries. Due to the differences in cultural norms, a speech given at a political rally in America and the same speech delivered in North Korea would garner different reactions.

To account for this, systems thinking offers a more complex view of causality through the mechanics of mutual feedback loops. In such a view, the separation between cause and effect is blurred. A mutual feedback loop is where two interacting entities modify each other through their feedback. A conversation or negotiation are good examples of mutual feedback loops. A further example can be observed in the relation between the *free flow of information* and a *well-functioning government*. Governments can regulate what

information is available; however, information can also change governments. Both will respond to the action of the other. In systems thinking, a “cause” is seen not as an independent force but as an input to a system which then reacts, producing the effect. The difference in reaction is due to different encoded norms, or values by which society self-organises.

The concept of mutual feedback loops gives rise to the notion of causeless correlations and forms the basis of Positive Peace. Statistically significant correlations describe macro relationships, but the causal relationships will vary depending on the particular circumstances.

Furthermore, from a systems perspective, each “causal” factor does not need to be understood. Rather, multiple interactions that stimulate the system in a particular way negate the need to understand all the causes. Processes can also be mutually causal. For example, as corruption increases, business reacts, which in turn changes the way corruption is undertaken. Similarly, improved health services provide for a more productive workforce, which in turn provides the government with higher income and more money to invest in health.

Systems are also susceptible to tipping points in which a small action can change the structure of the whole system. The Arab Spring began when a Tunisian street vendor set himself alight because he couldn't earn enough money to support himself. The relationship between corruption and peace follows a similar pattern. IEP research found that increases in corruption have little effect until a certain point, after which small increases in corruption can result in large deteriorations in peace.

HOMEOSTASIS

Homeostasis is where the system aims to maintain a certain state or equilibrium. An example of this is the self-regulation of the body temperature of a mammal. If the body starts to overheat then it begins to sweat, if the body becomes cold then the metabolism will adjust. The system attempts to make small adjustments based on the way inputs are interpreted by its encoded norms. The same model of understanding can be applied to the nation state. Nation states maintain homeostasis through encoded norms.

Encoded norms create reactions to inputs. For example, the desire to seek food when hungry or the release of T-cells in response to infection are encoded reactions to inputs. For the nation state, as inflation increases, interest rates are raised to dampen demand and when an infectious disease outbreak occurs, medical resources are deployed to fix it.

One of the key differences between natural systems, such as the weather or the oceans, and biological systems is that biological systems have intent. Analogously, nation states and governing powers also have intent. For example, when Costa Rica abolished its military in 1948 the government-in-sitting had a clear intent not to go to war. In contrast, other nations with large armies can use these in serving their perceived national interests. Systems also have the ability to modify their behaviour, based on the input that they receive from their environment.

Encoded norms and intent are used to choose and maintain homeostasis. When the state becomes unbalanced, they allow adjustments to be made to match its performance with its intent and encoded norms. These adjustments or actions can also affect the inputs. This, as mentioned, is called a mutual feedback loop. For instance, in a hypothetical event whereby two animals face off to fight over a scrap of food, the movement of the first animal serves as an input for the second, which in turn responds in a novel way. This alters the memory of the first and future responses will take this into account. In relation to a democratic nation state, this is analogous to the continuous interactions between two political parties or the discourse between the media and the public.

These feedback loops provide the system with knowledge of its performance or non-performance in relation to pre-established goals. Given this, it may be possible to analyse political systems through their feedback loops to better understand how “healthy” they may be. Measuring how much political organisations within a society respond to input may be one way of tracking this. Similarly, social values can also be viewed and better recognised by using the mutual feedback model through, for example, understanding what behaviours are shunned and what behaviours are encouraged within a society.

SELF-MODIFICATION

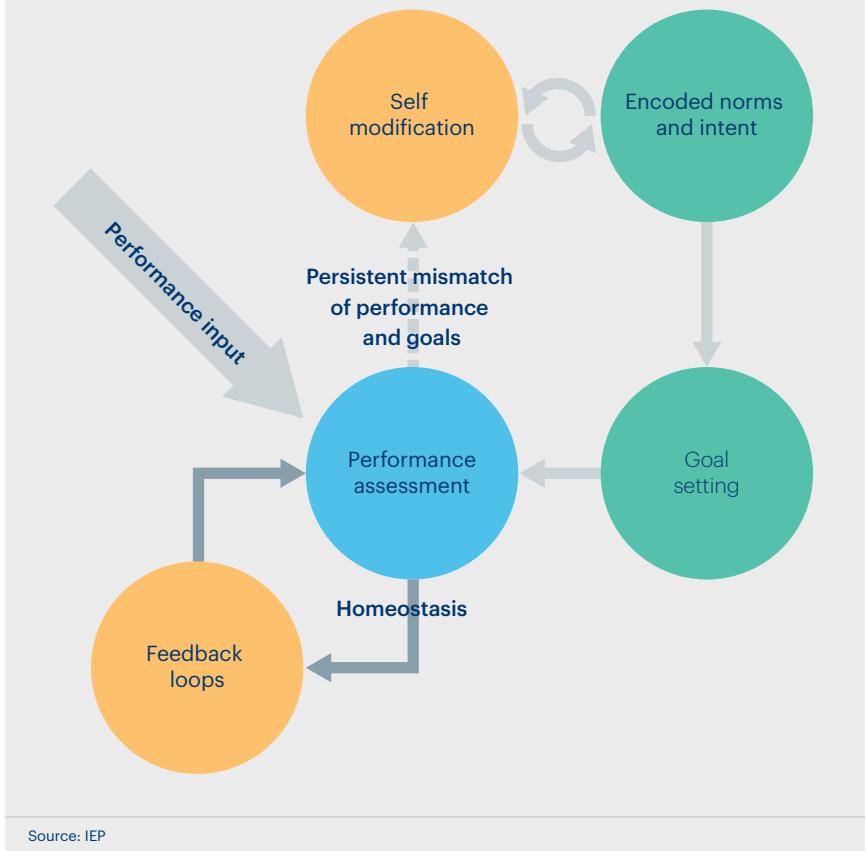
When unchecked or operating in isolation, feedback loops lead to runaway growth or collapse. In cultures, their role can be constructive or destructive. However, these are fundamental in promoting self-modification, which allows the nation state to evolve into a higher level of complexity. The effect of mutual feedback loops can be the accumulation of capital, the intensification of poverty or the spread of disease or new ideas.

If the external or internal factors of the nation state pressure the system into persistent imbalance, then a new level of complexity needs to be developed to maintain stability. In terms of organisms, it can be viewed as genes being switched on in response to its changing environmental factors. Within the biosphere, it could be the mutation of species so their offspring are better adapted to their environment. For the nation, it may take the form of major shifts within the system. For example, as the population of a country increases, this places stress on the agricultural resources of the country. The nation state responds by implementing measures which improve the yield of the available land while building an export industry to produce capital for the importation of food. Without the new responses to over-population the system would slowly degrade as the responses were inadequate to meet the changed needs. Other examples that increase complexity for the nation state could include the movement from an authoritarian system to democracy. Adaptation is more likely when the nation has higher levels of Positive Peace.

Figure 4.3 shows the process for homeostasis and self-modification. Encoded norms and intent combine to set goals for the nation state. The performance of the nation in relation to these goals is then assessed by receiving input either internally or externally. While the nation is performing acceptably with

FIGURE 4.3 HOMEOSTASIS AND SELF-MODIFICATION

Homeostasis occurs when there is balance between a system's internal goals and its performance. If performance persistently is not matched to a nation state's goals, it will self-modify and adapt. Once this change has occurred, the nation state will redefine its goals and attempt to maintain the new homeostasis.



respect to its goals and intent, the feedback loops make minor adjustments to maintain homeostasis. However, when the system's performance is persistently mismatched to desired goals and performance, then it can begin a process of self-modification. This process allows the system to, in accordance with its encoded norms, increase the complexity of its internal structure and adapt to the new challenge. Though figure 4.3 depicts this process using a simple process diagram, in reality, these mechanisms are complex and dynamic.

The relationship between the nation state and other systems, such as the biosphere and atmosphere, is key to the future survival of humanity. If these systems become incapacitated the nation states also weaken. Similarly, the interdependence between nations, when viewed holistically, fundamentally alters the way they are seen to interact.

When applying systems thinking to the nation state it's important not to over-complicate the analysis. What is important is to view the system as a set of relationships rather than events and to understand the most important feedback loops. Positive Peace provides a framework from which to understand and approach change, moving from simple causality to holistic action.

“ The relationship between the nation state and other systems, such as the biosphere and atmosphere, is key to the future survival of humanity. If these systems become incapacitated the nation states also weaken. Similarly, the interdependence between nations, when viewed holistically, fundamentally alters the way they are seen to interact.

RESILIENCE AND POSITIVE PEACE

The concept of resilience, which is critical to development and peacebuilding, is both mutually reinforcing and integral to Positive Peace. Positive Peace offers a holistic framework with which to understand why some countries cope well with sudden change while other countries suffer from it. Sudden changes, often referred to as shocks, include natural disasters, epidemics and political and economic changes, but can also be positive events, such as the introduction of a new technology or the discovery of a new mineral resource deposit. A country's level of resilience reflects how well it responds to sudden changes. The strengths and weaknesses of a country's pillars of Positive Peace can help explain why it manages shocks well or poorly.

This section explains the key concepts associated with resilience and explores the interaction between Negative and Positive Peace. The term resilience is often used with two meanings:

1. the ability to withstand a shock and maintain the current social system, such as high levels of health, wealth, peace, etc., and/or
2. the characteristic of adaptability, whereby society changes for the better in response to a shock.

To explore this further, figure 4.4 shows a stylised depiction of the link between resilience and Positive Peace. The attitudes, institutions and structures described by the pillars of Positive Peace not only provide a framework for assessing a country's potential for peace, but also provide a proxy for a country's ability to plan for and respond to change or shocks. A key reason for this is the mutually reinforcing nature of the societal structures underpinning the pillars. For instance, when a country has strong formal institutions, such as a well-functioning legal system, in combination with strong informal

“ Countries with high levels of Positive Peace are by far the most stable.

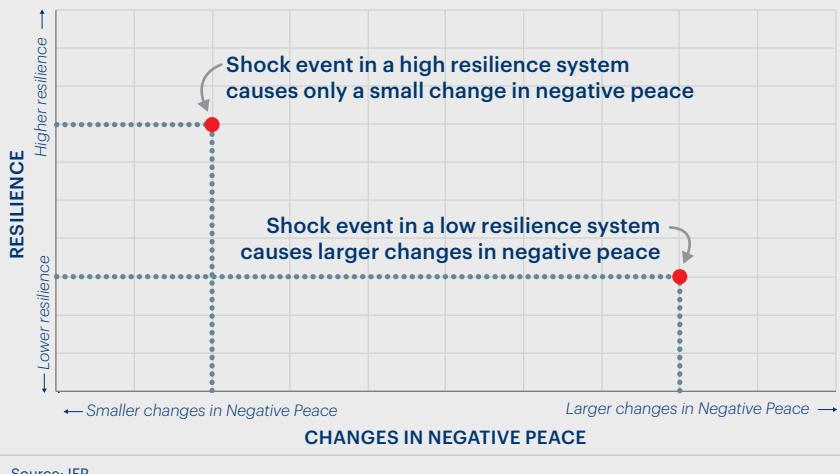
FIGURE 4.4 LINK BETWEEN RESILIENCE AND POSITIVE PEACE

Positive Peace enables higher resilience. Higher levels of Positive Peace correspond to greater resilience to shocks.



FIGURE 4.5 IMPACT OF AN IDENTICAL SHOCK ON A HIGH AND LOW RESILIENCE SYSTEM

An identical event may have starkly different impacts depending on the resilience of a system.



Source: IEP

institutions, such as cohesive communities, it will theoretically respond or adapt to specific shocks more effectively, as depicted in figure 4.5.

IEP's research has found a link between Positive Peace and the characteristics that make social systems stabilising and adaptive. Additionally, it uses empirical data to show that large shocks tend to have more severe impacts in low Positive Peace countries than in high Positive Peace countries.

Showing this link empirically is complex. Firstly, proving causality from one event to another, in this case, a shock leading to a deterioration in peace, is difficult. Few, if any, deteriorations in peace can be traced back to one source, as shown by the continued debate over the cause of World War I. Secondly, the impact of shocks are non-linear and have unpredictable effects on systems. While the impact of Hurricane Katrina was proportional to its size, the triggering of the Arab Spring from the self-immolation of Mohammad Bouazizi was not. Given these factors, the aim is not to predict when a shock will happen or how a country will fare after a shock, but how well equipped it is to rebound and adapt to the shocks it faces.

Resilience is generally understood to have two properties: stability and adaptability. The following research looks at these properties from three different perspectives. Firstly, maintaining homeostasis and enabling adaptability is shown through examining trends in the GPI. Secondly, it is demonstrated that the relative impact of exogenous shocks, such as natural disasters, in low Positive Peace countries tends to be larger. Finally, it is shown that the types of endogenous shocks that can occur from within a nation tend to be more severe in countries where Positive Peace is weaker. From these observations a taxonomy of shocks based on Positive Peace is developed.

POSITIVE PEACE AND TRENDS IN THE GPI

This section presents research on the link between Positive Peace and a nation's ability to, firstly, maintain homeostasis and, secondly, self-modify to new, more desirable levels. This section uses the Positive Peace Index (PPI) produced by IEP as a basis

for the analysis. This index covers 162 countries and is built from 24 indicators across all eight pillars of Positive Peace to measure the strength of the attitudes, institutions and structures that create and sustain peaceful societies.

To explore a country's ability to maintain homeostasis and to self-modify, it is useful to look at changes in GPI scores since 2008 based on Positive Peace levels. A plot of country ranks of Positive Peace and the GPI in 2008 is shown in Figure 4.6. Using the difference in country rankings between the GPI and PPI, IEP calculates a country's peace gap to explore the potential for improvements in peace, which is measured in the GPI as the absence of violence or fear of violence.

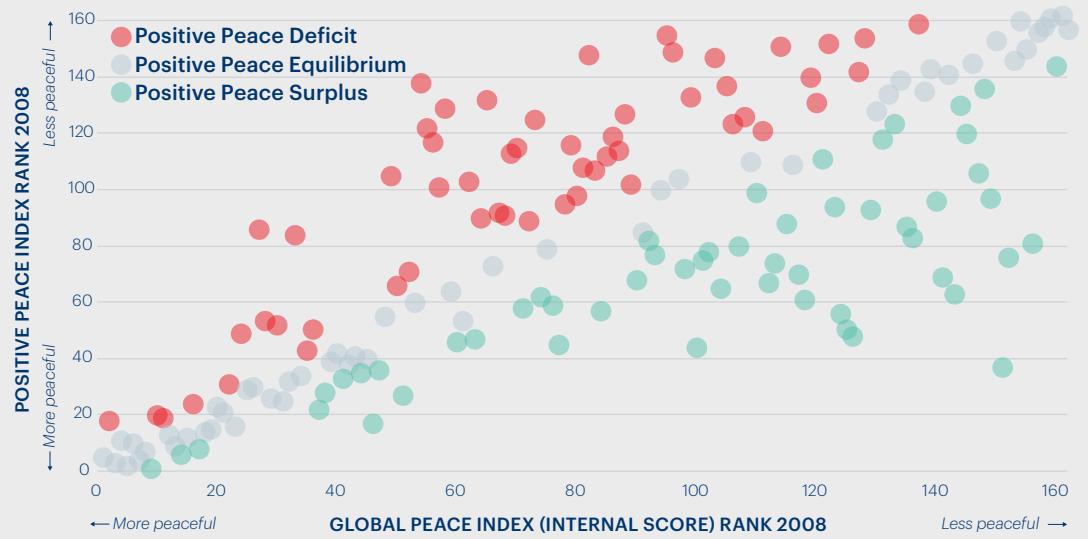
When a country ranks higher in the PPI than in the GPI a country is said to have a Positive Peace surplus, indicating a high level of institutional capacity to support lower levels of violence. Conversely, countries that rank higher in the GPI than in the PPI will have a Positive Peace deficit and are comparatively more vulnerable to external shocks and run a higher risk of increased levels of violence.

On average, the majority of the world's Positive Peace deficit countries are in sub-Saharan Africa, with the peace gap being greatest for low-income countries. The highly peaceful countries are very tightly clustered in both the PPI and the GPI, demonstrating the resilience of these countries, most of which show only small changes in scores over the period.

Figure 4.7 (overleaf) illustrates changes in the internal GPI score from 2008 to 2016 for three equal groups of countries based on PPI scores. This shows that countries with high levels of Positive Peace are by far the most stable, with around three out of every four countries remaining within ten per cent of 2008 levels of peacefulness. High Positive Peace countries also had the least number of deteriorations in internal peace, around 55 per cent less than either of the other two categories. Figure 4.8 shows changes in the GPI based on Positive Peace deficit or surplus. In this figure it can be seen that nations with a surplus of Positive Peace had the greatest number of countries *improving* in internal peace after a shock. Conversely, the group of countries with a deficit of Positive Peace had the fewest improvements after a

FIGURE 4.6 POSITIVE PEACE AND THE GPI, 2008

The Positive Peace deficit is a measure of the difference between the GPI and Positive Peace. The higher the GPI rank is in relation to Positive Peace, the more likely a deterioration in peace.



Source:

FIGURE 4.7 POSITIVE PEACE AND CHANGES IN GPI, 2008-2016

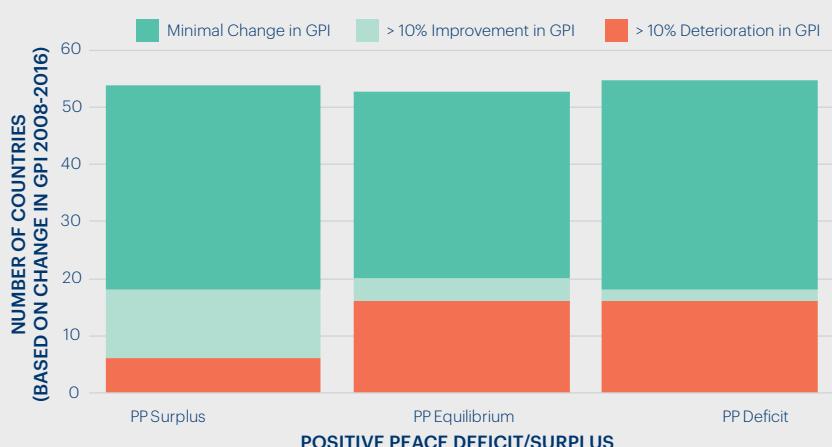
Countries with high levels of Positive Peace are by far the most stable.



Source: IEP

FIGURE 4.8 POSITIVE PEACE SURPLUS AND DEFICIT AND CHANGES IN THE GPI, 2008-2016

High Positive Peace enables countries to improve their levels of peace over time.



Source: IEP

shock. The combination of stability and the ability to evolve highlights the link between Positive Peace and resilience.

POSITIVE PEACE AND SHOCKS

The word shock is used to describe a sudden change in some aspect of a system. In terms of the nation state, shocks are sudden onset events that have the potential to “cause fatalities, injuries, property damage, infrastructure damage, agricultural loss, damage to the environment, interruption of business, or other types of harm or loss.”⁴ Shocks can be catastrophic events that directly cause loss of life and/or events that trigger the outbreak of violence. Some shocks can be positive events, such as democratic elections, the introduction of a new technology or the discovery of a new mineral resource deposit.

As explained previously, there are three mechanisms that a country uses to continue and evolve:

- **Homeostasis is a persistent state of self-regulating and balanced stability.**
- **Feedback loops are used to restore balance when the homeostasis becomes imbalanced, threatened by forces from inside or outside the system.**
- **Self-modification is when the system modifies itself to accommodate new situations and challenges. This tends to increase complexity in the system, often allowing the system to become more adaptive.**

Feedback loops allow countries to be resilient in the aftermath of shocks. The process of this is depicted in figure 4.9 using a hypothetical scenario between 2008 and 2016. How a country is operating today is its current homeostasis. In the case outlined,

there is a period of homeostasis between 2008 and 2011 when a shock occurs. If feedback loops are enacted then the country returns to the level of performance prior to the shock within a short period, as shown by case A. However, in case B the system is able to self-modify and improve its level of performance in the aftermath, benefiting from the shock in the long run. In case C, the same mechanism restores stability but at a lower level of performance. If feedback loops fail to restore some form of stability, the system will deteriorate into dysfunction (case D).

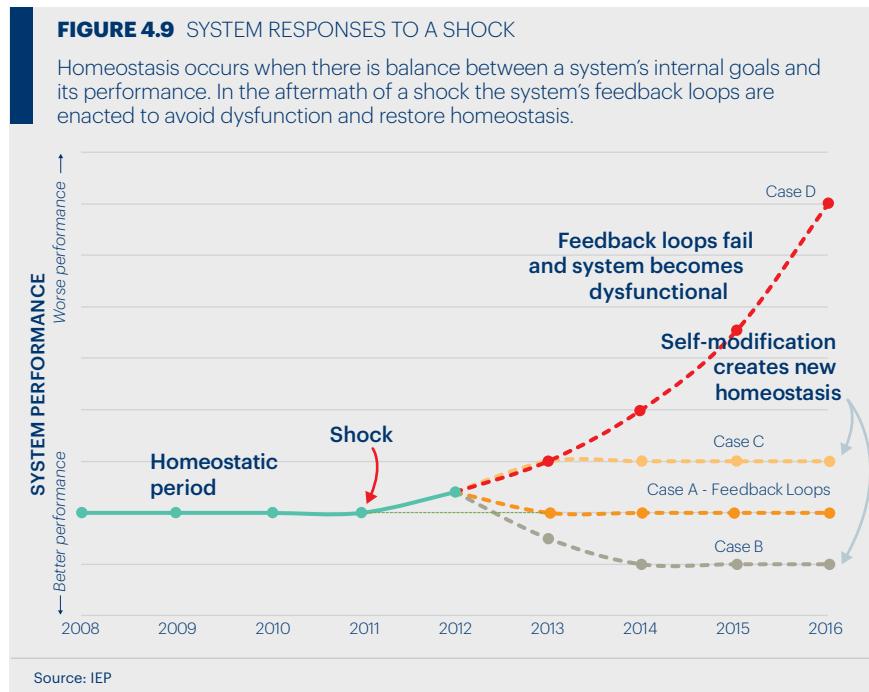
Shocks are useful phenomena with which to better understand resilience and peace. When they occur, they affect many aspects of an otherwise stable society and their flow-on effects can be long term and unpredictable. Shocks can, therefore, create tense situations that can lead to violence.

The 2010 earthquake in Port-au-Prince, Haiti, is an example of a shock that triggered violence. During the earthquake, the National Penitentiary in Port-au-Prince was severely damaged, allowing over 5,000 prisoners to escape.⁵ At the same time, police officers were immediately engaged in disaster response, reducing their capacity to respond to crime and violence, and police resources were also damaged in the earthquake.⁶ Chaotic conditions facilitated the regrouping of formerly dispersed or imprisoned gang members and, combined with general post-disaster lawlessness, the city saw an escalation of turf wars and a rise in homicide, assault and rape.⁷ The intersection of a severe shock and existing vulnerabilities in the system, such as weak infrastructure and an under-resourced police force, led to a deterioration in peacefulness. However, not all shocks trigger violence.

Countries with high levels of Positive Peace have the attitudes, institutions and structures that are associated with the absence of violence. These can be understood as drivers of *nonviolence*. The social characteristics that make up Positive Peace give

FIGURE 4.9 SYSTEM RESPONSES TO A SHOCK

Homeostasis occurs when there is balance between a system’s internal goals and its performance. In the aftermath of a shock the system’s feedback loops are enacted to avoid dysfunction and restore homeostasis.



people access to methods of resolving conflicts and addressing change without the perceived need to use violence.

TAXONOMY OF SHOCKS

Social systems can experience two types of shocks. Many shocks are exogenous: a sudden change in a variable outside the system that impacts variables within the system. In this case, it is useful to think of exogenous as meaning “outside of the control of policy makers.” For example, natural disasters may occur inside a country but are largely unexpected and outside of the control of policy makers. However, other shocks such as food and currency price shocks can be within the realm of domestic policy although they can also be caused by factors outside of the control of country governments.

On the other hand, social systems can also produce endogenous shocks. Social unrest, protests, labour strikes or political assassinations, for example, occur when people are responding to something inherent within a system. Economic shocks typically arise from characteristics of the economic and governance system within a country.

There are a host of sudden events that can disrupt a society, potentially resulting in violence. Some can even be caused by violence, such as the refugee crises affecting Europe and Syria's neighbours in the wake of the Syrian civil war. In Lebanon, the influx of refugees has put downward pressure on wages, causing economic disruption. In Europe, the influx of refugees has overwhelmed social services.

Different types of shocks arise in different types of systems. Political shocks, such as coups d'état, occur more frequently in low Positive Peace environments while economic shocks, such as stock market crashes, happen more often in high Positive Peace environments.

Table 4.1 lists a variety of types of shocks in terms of their primary levels of exogeneity or endogeneity. Events such as natural disasters lie largely outside of the control of countries while crises such as economic shocks arise because of the conditions within society. Alternatively, some events can arise from either external or internal conditions – or, most likely, a combination of the two.

TABLE 4.1 TAXONOMY OF ENDOGENOUS AND EXOGENOUS SHOCKS

While shocks are often classified as exogenous or endogenous, in reality most arise from a range of exogenous or endogenous factors.

PRIMARILY EXOGENOUS	CAN BE BOTH EXOGENOUS AND/OR ENDOGENOUS	PRIMARILY ENDOGENOUS
Natural Disasters	Incoming Refugees	Economic Shock
Price Shocks	Post-conflict reintegration	Social Unrest
Invasion from a Foreign Power	Epidemic	Industrial Accident
	Pandemic	Political Crisis
	Terrorism	Revolution
		Civil War

EXOGENOUS SHOCKS

Natural disasters are the most prevalent and least predictable type of shock. Between 2005 and 2015, there were over 2,400 natural disasters in 196 countries affecting more than 1.8 billion people.⁸ They occur all over the world, and their frequency has historically been outside the control of policy makers. Importantly, as the effect of climate change accelerates so too may the frequency and impact of natural disasters.

Figure 4.10 shows that natural disasters kill more people in low Positive Peace countries. While this is striking, many factors affect how large the likely effect from a natural disaster may be, other than Positive Peace. Firstly, some countries are located in geographical regions where such events are more frequent. Secondly, some regions are more prone to more severe disasters that naturally affect more people simply due to their magnitude. Finally, the population density of a country is relevant, whereby any disaster will affect more people in a higher density area than it would in a lower density area. However, these factors are not adequate in explaining the full extent of the discrepancy in lives lost shown in Figure 4.10.

BOX 4.3 EMERGENCY EVENTS DATABASE

IEP used data from the Emergency Events Database (EM-DAT) to explore the relationship between resilience and positive peace. EM-DAT captures basic data on the occurrence and effects of natural and technological disasters for the years 1900 to 2015. Events are included in the database if they meet one of the following criteria:

- 10 or more people reported killed
- 100 or more people reported affected
- declaration of a state of emergency
- call for international assistance.

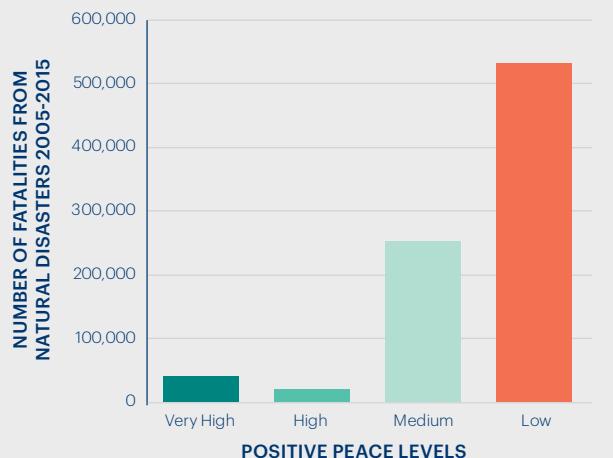
Information on events is sourced from a variety of sources, with preference given to data from UN agencies and country governments.⁹

To explore the link between Positive Peace and the reduction of impacts from natural disasters it is necessary to examine the distributions of frequency, severity and population density across different levels of Positive Peace. While there will undoubtedly be other factors that determine the impact of a natural disaster in a country, for brevity this report will look at these three major areas.

Figure 4.11 shows the frequency of natural disasters by level of Positive Peace. Figure 4.10 shows that countries at lower levels of Positive Peace experience far more fatalities as a result of natural disasters. Countries with weak Positive Peace have a fatality ratio of 13:1 compared to high Positive Peace environments while the frequency of natural disasters is much closer at 6:5. Figure 4.12 highlights that population densities in lower Positive Peace countries are not significantly larger than higher Positive Peace countries. Neither density nor frequency provides a full explanation of the significant difference in loss of life from natural disasters between high and low Positive Peace countries.

FIGURE 4.10 TOTAL NUMBER OF DEATHS FROM NATURAL DISASTERS, 2005-2015

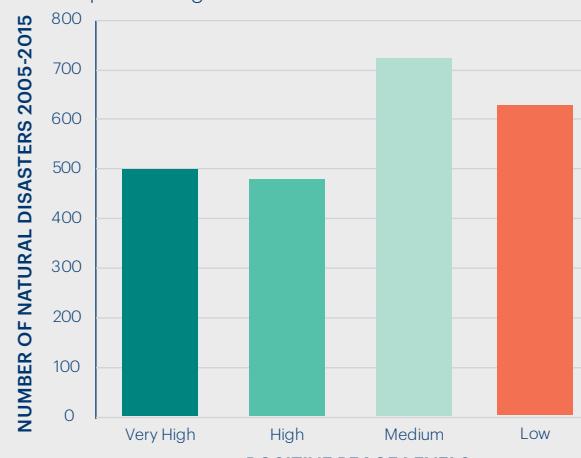
More people are killed by natural disasters in low Positive Peace countries than high Positive Peace countries.



Source: EMDAT, IEP

FIGURE 4.11 FREQUENCY OF NATURAL DISASTERS, 2005-2015

Natural disasters are only slightly more frequent in low Positive Peace countries, yet they have a fatality ratio of 13: compared to high Positive Peace environments.



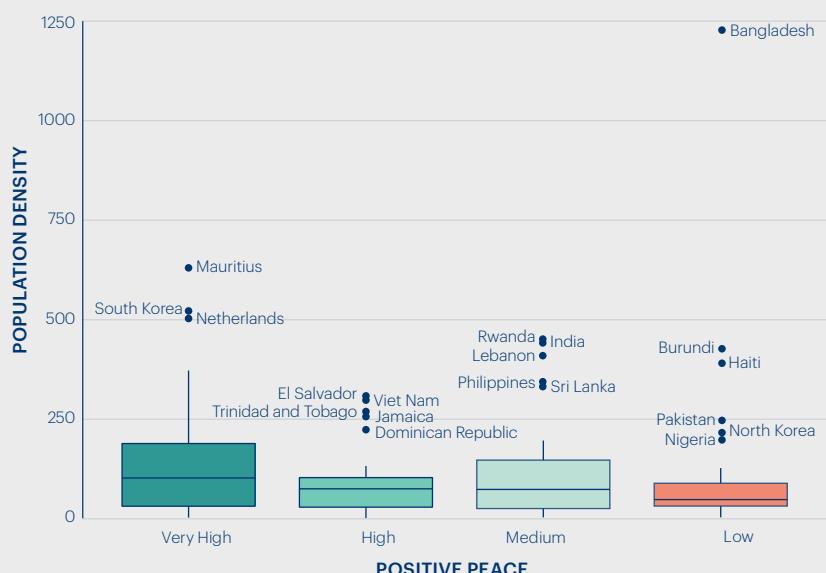
Source: EMDAT, IEP

Figure 4.13 (overleaf) depicts the density of total numbers of people affected by natural disasters by levels of Positive Peace.¹⁰ While low Positive Peace countries have had a number of large events affecting more than 100,000 people, in general figure 4.13 shows only minor differences in the number of people affected in low and high Positive Peace countries. Figure 4.14 however shows that higher Positive Peace countries suffer more in terms of economic loss from natural disasters.

If cross-country data was available on measures of severity, such as the Richter or Beaufort scales, a more accurate model could be developed that may alter the outcome of this analysis.

FIGURE 4.12 POPULATION DENSITIES AND POSITIVE PEACE, 2014

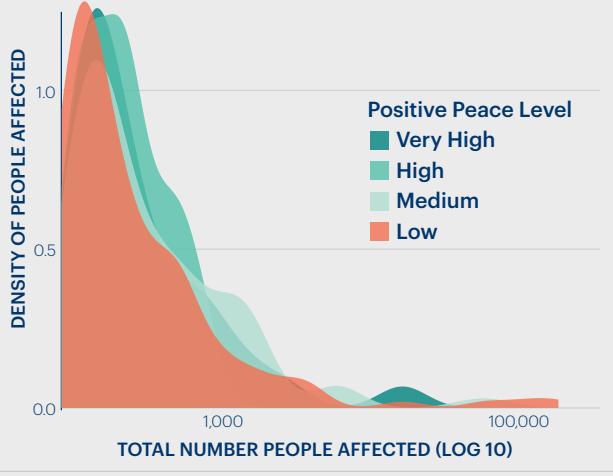
Population density is not significantly greater in low Positive Peace countries and so does not account for the larger loss of life in these nations.



Source: WORLD BANK, IEP

FIGURE 4.13 NUMBER OF PEOPLE AFFECTED BY NATURAL DISASTERS, BY POSITIVE PEACE, 2005-2015

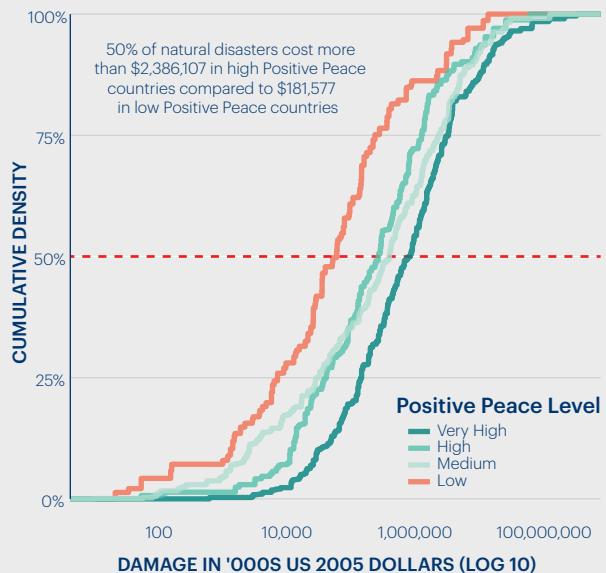
The severity of natural disasters as indicated by numbers of people affected do not significantly differ depending on Positive Peace.



Source: EMDAT, IEP

FIGURE 4.14 PROPERTY DAMAGE FROM NATURAL DISASTERS BY POSITIVE PEACE, 2005-2015

High Positive Peace countries incur larger property damage due to natural disasters.



Source: EMDAT, IEP

ENDOGENOUS SHOCKS

Endogenous shocks are sudden onset events that arise from conditions inside society. Particular conditions may change rapidly or build up over time and result in unexpected events that have the potential to spark violence. Civil unrest is a good example as there can be months or years of ongoing conflict without violence that quickly turns violent because of a sudden, destabilising event. Economic shocks are similar. Economic conditions can be misaligned for a long time before resulting in a sudden crash or crisis that has the potential to spark riots or other types of violence.

Despite being engendered by the social system, endogenous shocks are still unpredictable. It is often impossible to know when, where or how they will arise. But the data does show that different types of shocks occur in low versus high Positive Peace settings and that more shocks overall take place in low Positive Peace countries.

This suggests that it is possible to reduce the impact of shocks by proactively building resilience and Positive Peace.

Additionally, countries with high levels of Positive Peace are less likely to deteriorate in Negative Peace post-shock. The onset of different types of shocks is shown in figure 4.15.

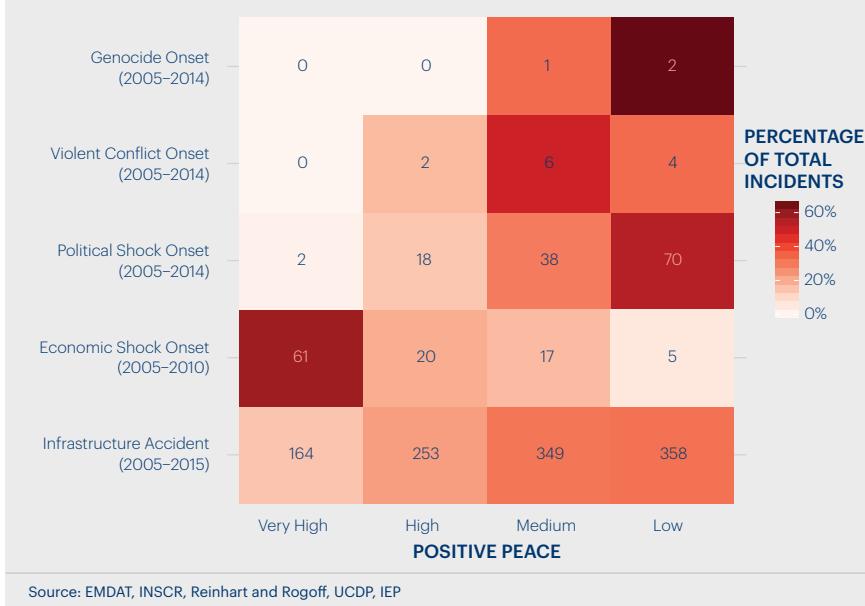
Figure 4.15 highlights that twice as many infrastructure accidents occur in countries with low Positive Peace than those with high levels. This is intuitive, as higher Positive Peace countries will generally have better infrastructure due to an efficient *well-functioning government, a sound business environment* and higher levels of income. Furthermore, economic shocks and crises are far more prevalent in very high

Positive Peace countries. Again, this is intuitive as the risk of financial shocks increases as financial institutions proliferate and become more and more integral to a country's economy.

Violent shocks such as regime changes, coups d'état and revolutions have been more prevalent in countries with lower Positive Peace, with 84 per cent of these occurring in medium to low Positive Peace countries. Genocide, being *jus cogens* in international law, is the largest endogenous systemic breakdown investigated and since 2005 has occurred in three countries. Offensives by the state during the Sri Lankan civil war in 2008 have been classified as genocide against the Tamils. In the Central African Republic, following the forcible displacement of the President Bozizé regime on 24 March 2013, the government engaged in predatory actions against the population. The Sunni extremists organized under the banner of the Islamic State in Iraq since 2014 have targeted Yazidis and Christians in their controlled territories. It is estimated that these operations have killed around 5,000 people.

FIGURE 4.15 DISTRIBUTION OF ENDOGENOUS SHOCKS, 2005-2015

Lower Positive Peace countries experience more industrial and political shocks while higher Positive Peace countries suffer more economic shocks.



Source: EMDAT, INSCR, Reinhart and Rogoff, UCDP, IEP

BOX 4.4 ENDOGENOUS SHOCKS DATA

IEP has sourced the following data for creating a database of shocks:

Infrastructure accidents are from EMDAT and include transport, industrial and technological disasters.

Economic shocks and crises are from Reinhart and Rogoff (2010) and include incidence of crises in banking, currency, inflation crises, sovereign debt and stock markets.

Political shocks are from Polity IV and include regime changes, coup-d'états and revolutions.

Violent conflict is from the UCDP Battle deaths dataset.

SYSTEMS MAP OF POSITIVE PEACE AND RESILIENCE

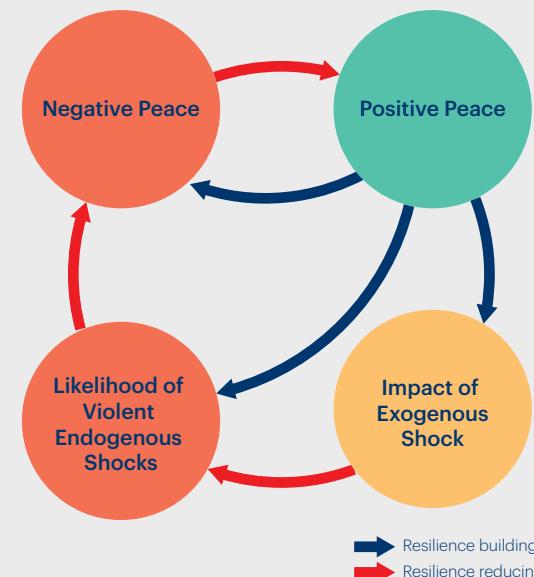
As has been discussed, Positive Peace allows a nation state to build resilience in order to maintain stability while also being able to recover from shocks. Additionally, high Positive Peace countries improve through adaptation to new challenges.

Figure 4.16 explains the links between exogenous and endogenous shocks and Positive and Negative Peace. Countries can reduce the *impact* of exogenous shocks but not the likelihood. Conversely, they mitigate endogenous shocks by reducing the *likelihood and impact*. This depiction shows that building Positive Peace assists in reducing the risk of violent exogenous and endogenous shocks in two ways. The first is that it directly reduces the potential for conflict within a country. The second is an indirect relationship, in that Positive Peace minimises the potential for shocks interacting with existing negative drivers, which could create a more volatile situation.

These observations highlight two important aspects of resilience. The first is that building resilience does not have to be direct, using systems thinking it is easy to see how improvements in one area can strengthen resilience in another. Secondly, by building Positive Peace a country can shift the types of shocks it is vulnerable to from violent ones, such as revolutions and regime changes, to non-violent ones, such as infrastructural and economic. By reducing the risk of internal threats, a country will be able to maintain homeostasis more easily.

FIGURE 4.16 RESILIENCE BUILDING IN A POSITIVE PEACE SYSTEM

Positive Peace can be used to not only build resilience directly but also to shift the shocks a country is exposed to from violent to nonviolent .



Source: IEP

BUILDING POSITIVE PEACE

RECOMMENDATIONS FOR CATALYSING SYSTEMIC CHANGE

Violence and conflict continue to thwart efforts to meet humanitarian goals and tackle major challenges, such as climate change or poverty reduction. In 2015, the economic impact of containing or dealing with the consequences of violence was 13.3 per cent of world GDP, yet in comparison far less is devoted to addressing the underlying conditions that lead to violence or conflict.

IEP's analysis demonstrates that building resilience in a preventative manner, by building high levels of Positive Peace, is an effective way to reduce the potential for violence. But how should countries go about doing this?

IEP offers two recommendations as entry points to changing peace systems:

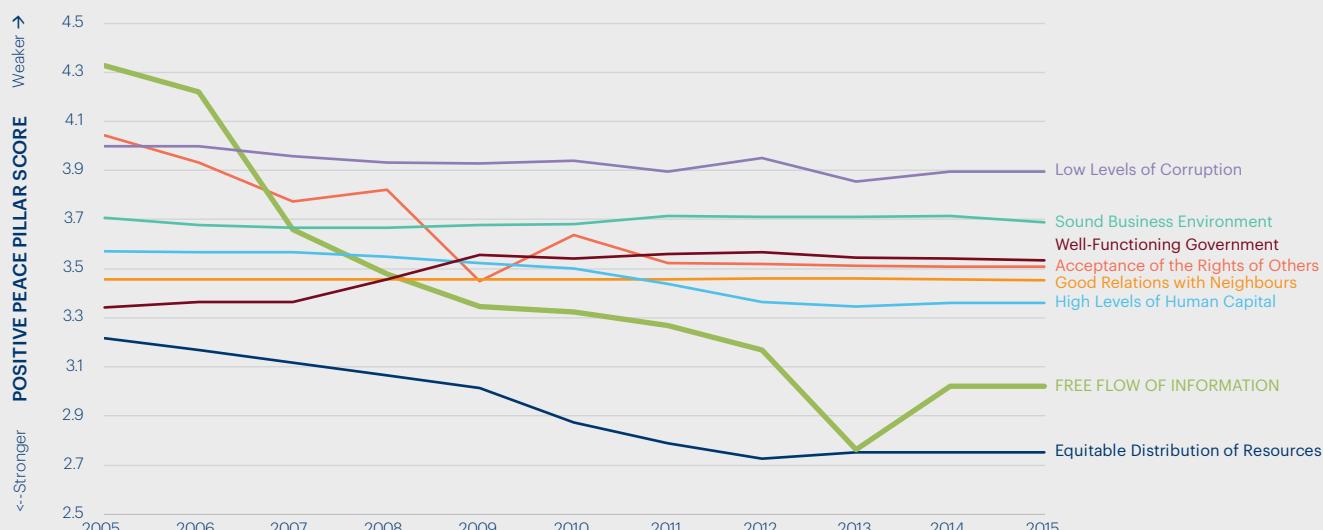
1. FOCUS ON THE WEAKEST PILLAR

This intervention aims at targeting the weakest pillar and then building the appropriate actions to stimulate it. This should have the benefit of not only improving the pillar but due to interdependencies, also have a positive flow on effect to the other pillars of Positive Peace.

Nepal is an example of a country where change was driven by progress in its weakest pillar. Nepal was one of the five countries with the greatest improvement in the Positive Peace Index from 2005 to 2015. In 2005, Nepal's weakest pillar of Positive Peace was *free flow of information* and this pillar showed the largest improvement from 2005 to 2015, as shown in figure 4.17. Over the course of the next decade, Nepal's score for *free flow of information* improved by 30 per cent, driven by a dramatic increase in mobile phone penetration in the country. Shortly thereafter, the country began to show improvement in other areas of Positive Peace. Between 2007 and 2011, Nepal made significant gains in *free flow of information*, *acceptance of the rights of others* and *equitable distribution of resources*. In 2016, Nepal's internal peace score is two percent better than it was in 2008 and its Positive Peace score was seven per cent better in 2015 than in 2005.

FIGURE 4.17 POSITIVE PEACE PILLAR SCORES IN NEPAL, 2005-2015

Improvements in free flow of information led the improvements in Positive Peace that Nepal achieved over the decade.



Source: IEP

2. STIMULATE THE WHOLE SYSTEM

The aim of this approach is to stimulate the system from many different angles and involves finding an intervention for each pillar which has the following characteristics:

- **The intervention is practical and can be implemented in the current political dynamics.**
- **The intervention will have an impact that is substantial.**
- **The intervention will have an effect over the shorter term as well as the longer term.**

This kind of system-wide improvement can create the environment for a virtuous cycle of peacebuilding.

IEP has piloted a program to develop conversations around practical, measurable and impactful investments in the key drivers of peace.

IEP's Positive Peace workshops are designed to bring together key stakeholders at the national and local level. Workshops seek to meet two main goals. The first is to ground the globally derived factors of Positive Peace in a more localised context, which includes reality testing whether workshop participants see the factors as salient within their country or community. The second is to identify concrete investments that can be made in the Positive Peace factors themselves.

ZIMBABWE POSITIVE PEACE WORKSHOP CASE STUDY

IEP coordinated a workshop on Positive Peace in November 2015 in Harare, Zimbabwe, in partnership with the National Peace Trust, a Zimbabwean organisation. The workshop was supported by IEP and led by the National Peace Trust. Over 50 participants attended, including senior government officials, including Zimbabwe's Vice President, the Honourable ED Mnangagwa, who made introductory remarks, followed by civil society leaders, church leaders, academics and NGO representatives. The workshop took place over two days and included presentations by identified experts in each of the eight Positive Peace factors.

The workshop brought together representatives of the ruling party, opposition parties and civil society aligned with both sides of politics. One of the tangible outcomes of the workshop is follow-up discussions, planned for later in 2016, about how civil society and government can work together more effectively around the eight Positive Peace pillars.

BACKGROUND TO THE WORKSHOP

The relative peace of a society is underpinned by the material and cultural circumstances of that society. Thus, the overall objective of the workshop was to set up an action-orientated steering group to identify and analyse possible initiatives on the pillars of peace, as well as support efforts to bring those initiatives to fruition.

The most profound observations from an analysis of the Global Peace Index, which forms an important background for this project, show that those countries with stronger levels of Positive Peace also tend to be those that experience more virtuous cycles of peace. Viable initiatives are needed to strengthen the Positive Peace domains and in the process build consensual approaches to address the social, economic and political issues necessary for durable peace.

To understand the concept of Positive Peace in a southern African context, there has to be an understanding of local, regional and national historical and social factors. This lays the groundwork for developing locally relevant conceptualisations of the Positive Peace pillars, which can then be put to use in formal processes of governance.

In southern Africa, the spiritual relationship between people and groups is fundamental in creating peace. Workshop participants emphasised that the collective nature of many African cultures values *Ubuntu* and *Hunhu*, the connective social tenets that give emphasis to the collective through which individuals are connected. These principles create the social equilibrium that maintain peace and the capacity to resolve conflict in African communities. When this equilibrium is lost, conflict is often the outcome.

To maintain this equilibrium, Negative Peace is only a starting point. The cultural heritage of southern African communities needs to be taken into account when crafting locally relevant approaches to Positive Peace. While tangible and material needs identified in the Pillars of Peace need to be met to help maintain peace in society, the spiritual and communal side of African culture also needs to be included. The lessons from this communal history can then inform deeper processes of peacebuilding in the West, balancing the preference for formal statebuilding and peacebuilding processes.

To fully engage in the development of Positive Peace, there has to be a shift away from the accusatory approaches to one that focuses on the shared processes of developing peace. While respecting the cultural and spiritual aspects of African societies, there also needs to be a basis for agreement on definitions of peace. A key question that underpins this is: what is the definitive outcome peace is intended to achieve? Is it peace for its own sake, peace for economic and political development, or a value-free programme meant to achieve stable technocracy?

Through a shared understanding of peace in the wider southern Africa region, complex systems and social processes can be explored using innovative tools and methods to find patterns of Positive Peace across communities.

INITIATIVES RELATED TO POSITIVE PEACE IN SOUTHERN AFRICA

The outcome of the National Peace Trust and IEP's Positive Peace workshop was a plan for one practical initiative to address each of the eight pillars of Positive Peace.



Sound Business Environment

Strengthening the Links between Government and Business *Commercial Arbitration Centre*

This initiative develops government and business rapport and ability to work together to develop regulatory and social structures that make the most of human capital, while attracting foreign investment. Governments and businesses are not competitors but must be aware of the inter-relatedness between effective regulation and positive business practices.



Free Flow of information

Words Are Not Stones Campaign *Media Institute of Southern Africa*

A campaign to decriminalise free expression and restructure defamation laws to increase free flows of information in the media. Free flow of information is key to democracy, and this can be further enshrined in the SADC Protocol on Culture, Information and Sport.



Equitable Distribution of Resources

Designing and Testing Land Conflict Resolution Models and Equitable Distribution of Resources

Institute of Agro Studies

This initiative develops conflict resolution processes to manage conflicts related to land use and access issues. Follows on from land reforms during the 2000s, tying in local mediation processes with official legal processes.



Acceptance of the Rights of Others

Training Women's Clubs for Engagement with Traditional Leaders

Women's Bureau

This initiative has been developed to engage women's clubs in local settings, providing training on best practices for engaging with local and traditional leadership on youth, food and peacebuilding issues.



Well-Functioning Government

Community Participation in the Local Authority Budgetary Processes: Strengthening Local Government Institutions for Effective Service Delivery

Africa Bureau of Strategic Studies

This project aims to increase the quality and relevance of government services. It proposes making the budgeting process at the local and national level open to citizen consultation and participation so their needs are encoded into the spending processes that fund public services.



High Human Capital Development

Labs for Girls

Data Africa

This initiative addresses the need for girls to have increased opportunities to pursue education and careers in the sciences. It will set up special laboratory spaces to increase girls' participation in science at 50 secondary schools, increasing girls' and women's input into science and increasing their capacity to live independently.



Good Relations with Neighbours

Promoting a Regional Citizen Ethic

Zimbabwe Electoral Commission

The Southern African Development Community (SADC) regional body has an official position on promoting good relations between neighbouring states but this does not extend into shared notions of civil ethic and participation at the citizen level. This project is designed to encourage greater cooperation between the SADC bodies, governments and civil society organisations. It would build trust between government leaders and civil society, improving the relations between neighbouring states.



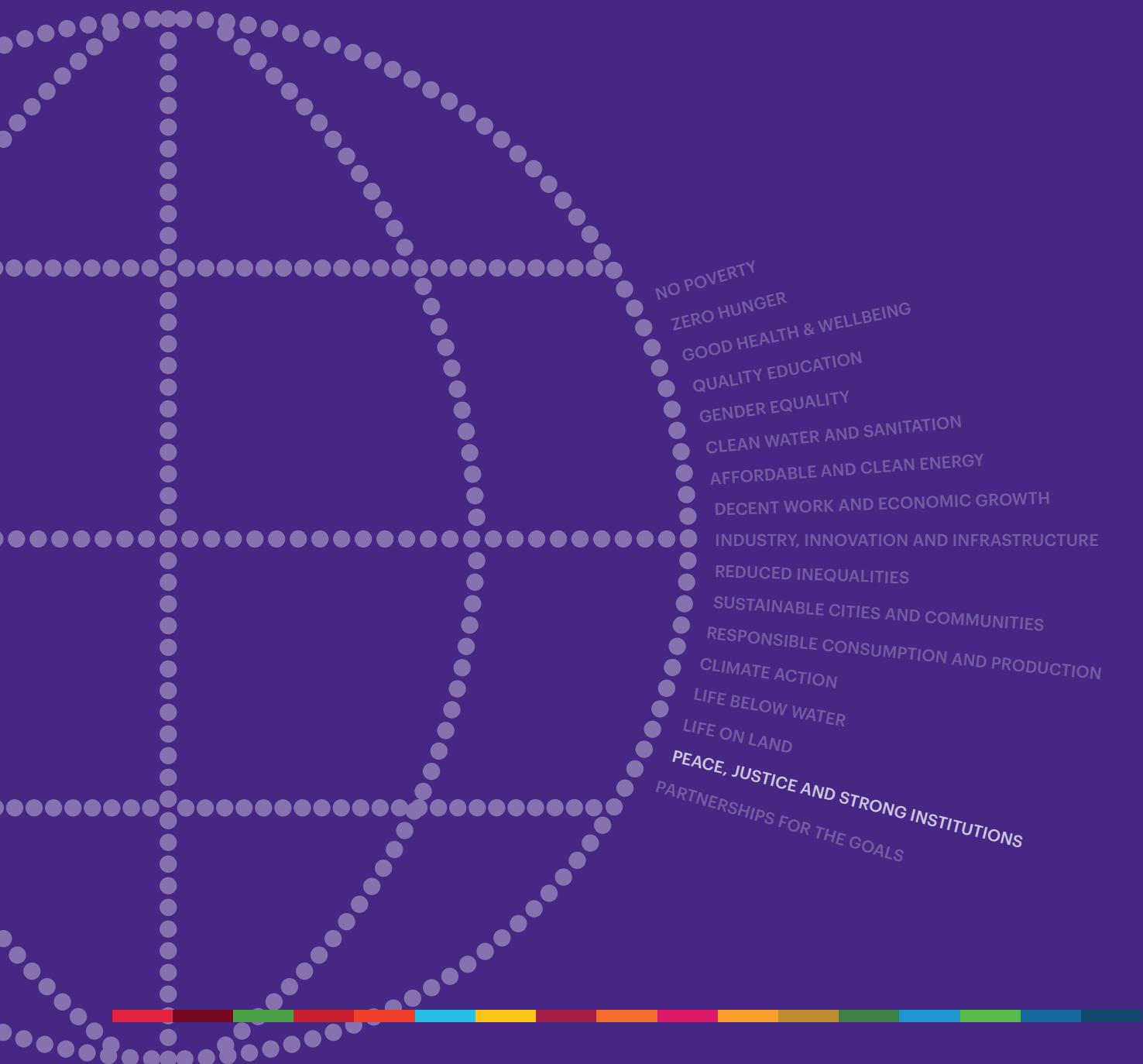
Low Levels of Corruption

Mapping Of Informational Needs, Packaging and Dissemination of Information to Enhance Active Citizen Participation in Promoting Accountability

Zimbabwe Environmental Lawyers Association

This project will gather relevant legal and civil society data to empower citizens to check government corruption and demand their rights under the law. It will make this information manageable through data visualisation and infographics that people can easily digest and make use of.

SUSTAINABLE DEVELOPMENT GOAL 16



ARE THE GOAL 16 TARGETS MEASURABLE?

TARGET INDICATORS & DATA AVAILABILITY

TARGET 16.1

16.1.1



16.1.2



16.1.3



16.1.4



Target 16.1 significantly reduce all forms of violence and related death rates everywhere. Can be measured through four indicators. It is most directly measured by the Global Peace Index.

The biggest challenge will be measuring 16.1.3 Percentage of the population subjected to physical, psychological or sexual violence in the previous 12 months.

TARGET 16.2

16.2.1



16.2.2



16.2.3



Target 16.2 end abuse, exploitation, trafficking and all forms of violence against and torture of children. This is particularly difficult to measure based on the existing data. All forms of trafficking, exploitation and crimes against children are under-reported for a range of reasons.

The biggest challenge will be measuring 16.2.3 Percentage of young women and men aged 18–24 who experienced sexual violence by age 18.

TARGET 16.3

16.3.1



16.3.2



Target 16.3 promote the rule of law at the national and international levels and ensure equal access to justice for all.

The biggest challenge will be measuring 16.3.1 Crime reporting rate (the percentage of victims of violence in the last 12 months who reported their victimisation to competent authorities or other officially recognised conflict resolution mechanisms).

TARGET 16.4

16.4.1



16.4.2



Target 16.4 significantly reduce illicit financial and arms flows, strengthen the recovery and return of stolen assets and combat all forms of organized crime.

By definition, those engaged in illicit financial or arms flows will not want their activity known. As such, there will be great difficulties in creating a measure that is direct and meaningful for this target.

The biggest challenge will be measuring 16.4.1 Total value of inward and outward illicit financial flows (in current United States dollars).

TARGET 16.5

16.5.1



16.5.2



Target 16.5 substantially reduce corruption and bribery in all their forms. IEP has previously found there is a relationship between peace and corruption.

This target measures the proportion of private citizens and businesses that have had contact with public officials asking for bribes.

TARGET 16.6

16.6.1



16.6.2



Target 16.6 develop effective, accountable and transparent institutions at all levels. The two indicators which are designed to measure this target focus on financial accountability and reporting of satisfaction with public services.

Target 16.6.2 Proportion of the population satisfied with their last experience of public services is slightly behind 16.6.1 in readiness. There is only 1 indicator in this target. The percentage of persons who had at least one contact with a public official, who paid a bribe to a public official, or were asked for a bribe by these public officials, in the previous 12 months.

Data available



Data not available



SECTION 5

TARGET 16.7

16.7.1



16.7.2



Target 16.7 ensure responsive, inclusive, participatory and representative decision-making at all levels. A core component of development includes participation in the decisions which have an impact on an individual or groups' life and wellbeing.

The biggest challenge will be measuring 16.7.1 Proportions of positions (by age group, sex, persons with disabilities and population groups) in public institutions (national and local legislatures, public service, and judiciary) compared to national distributions.

TARGET 16.8

16.8.1



Target 16.8 is to broaden and strengthen the participation of developing countries in the institutions of global governance.

The indicator to measure this is 16.8.1 Percentage of members and voting rights of developing countries in international organisations. In order to be measured it will require a decision on which institutions to include. This is one of the few indicators in Goal 16 that could be measured immediately as it does not require additional input.

TARGET 16.9

16.9.1



Target 16.9 provide legal identity for all, including birth registration.

The indicator to measure this is 16.9.1 Percentage of children under 5 whose births have been registered with a civil authority, disaggregated by age. Registration of children is the first step for recognising their rights under the law. Furthermore, registration helps ensure that children are counted and can access the services of the state.

TARGET 16.10

16.10.1



16.10.2



Target 16.10 ensure public access to information and protect fundamental freedoms, in accordance with national legislation and international agreements.

This target is very similar to the Positive Peace measures of *free flow of information* and *acceptance of the rights of others*.

The proxy indicators chosen to measure this are the numbers of verified cases of killing, kidnapping, enforced disappearance, arbitrary detention and torture of journalists, associated media personnel, trade unionists and human rights advocates in the previous 12 months as well as measures of public access to information.

TARGET 16 A & B

16.A



16.B



Target 16 A seeks to strengthen relevant national institutions, including through international cooperation, for building capacity at all levels, in particular in developing countries, to prevent violence and combat terrorism and crime.

This is addressed by compliance with Paris Principles for independent human rights institutions.

Target 16 B is to promote and enforce non-discriminatory laws and policies for sustainable development.

This indicator would benefit from survey collections.

MEASURING GOAL 16

On 1 January 2016, the 17 Sustainable Development Goals (SDGs) of the 2030 Agenda for Sustainable Development — adopted by UN member states in September 2015 — officially came into force. They provide an overarching, comprehensive and integrated framework for global action on a vast range of critical issues for the next 15 years. Goal 16 is dedicated to the promotion of peaceful and inclusive societies for sustainable development, the provision of access to justice for all and building effective, accountable institutions at all levels.

KEY FINDINGS

- IEP's comprehensive audit of the existing data for Goal 16 indicates that it is measurable, although with many limitations.
- Fifteen of the 23 indicators in Goal 16 can be measured by currently existing sources. The remaining eight indicators can be measured by proxy indicators.
- There are still significant challenges to data availability, reliability, timeliness and objectivity. It will take significant time and investment for National Statistical Offices to develop the necessary statistical capacity to measure Goal 16.
- Third party initiatives will be required to fill the data gaps and act as a source of independent verification for the National Statistical Offices.
- The targets in Goal 16 are relevant to many of IEP's Positive Peace factors.

Although this section focuses solely on Goal 16, as this is the area where IEP has the most relevant domain knowledge, the 17 Goals are universal, interconnected and need to be viewed holistically. Enduring environments of peace can only be achieved through holistic approaches. The emphasis on the interconnectedness between prevention, sustaining peace and development is in line and compatible with IEP's Positive Peace framework which views societal development as systemic.

Goal 16 is the outcome of the international community's acknowledgement that peace is fundamental to development. By annually measuring the levels of peace in over 160 countries worldwide, IEP has shown that peace is not an abstract concept but something that can be tracked and actioned. The recognition

by the international community that peace can and should be measured for development outcomes is indeed a very positive shift.

Goal 16 aims to promote just, peaceful and inclusive societies. It consists of 12 targets, measuring direct violence, drivers of violence, governance and justice. Such an approach is highly compatible with IEP's research which addresses both Negative and Positive Peace. Goal 16 is a measure of key aspects of both Negative Peace, which is defined as 'the absence of violence and the fear of violence', as well as Positive Peace, which is defined as 'the attitudes, institutions and structures that support and sustain peaceful societies.'

The 17 SDGs include 169 targets and have been created through a collaborative process over several years. As the goals were only recently agreed to, there is not universal coverage, but proxies are available for most measures. This section only audits third party data; it does not audit the availability of administrative data from National Statistical Offices.

An audit of data that could be used to measure Goal 16 found that there is no existing sources of data that cover the full scope and disaggregation required for any one indicator.

However, of the 23 indicators chosen to measure Goal 16:

- Two indicators can be measured immediately and be fully disaggregated. These are the measures of the independence of national human rights institutions and the representation of developing countries in international organisations.
- An additional 13 indicators can be measured immediately but do not have disaggregation or full coverage.
- A close or similar measure is available for seven indicators.

- One indicator has only proxy measures available.
- There are measures to gauge progress for all indicators.

Goal 16 does however present a number of potential methodological concerns. In the spirit of the SDGs being country led, the intention is for many of the measurements to be led by National Statistical Offices (NSOs). However, of the 12 targets in Goal 16, ten face potential conflicts of interest in measurement by the state. Currently, there are a number of third party organisations that measure many of the indicators for Goal 16 which can be used for independent verification. These include the Small Arms Survey which measures the illicit trade in small arms and light weapons, the World Justice Project which measures the rule of law, Transparency International which measures press freedom and Peace Research Institute Oslo which measures conflict-deaths. Also,

some indicators do not necessarily relate to the achievement of targets. Nine of the 12 targets in Goal 16 are not adequately measured by the indicators that have been selected.

As a result of this audit, IEP recommends that independent third party organisations provide complimentary support to NSOs and offer a useful benchmark against which to compare results. One such effort is an informal grouping of independent research organisations and networks that will measure and publish Goal 16 using available data. The grouping currently includes the Global Forum for Media Development, the Institute for Democracy and Electoral Assistance, Namati, the Peace Research Institute Oslo, Research 4 Development, Saferworld, the Small Arms Survey, the Sustainable Development Solutions Network, Transparency International, the Transparency, Accountability and Participation Network, the World Justice Project and IEP.

GOAL 16: PEACE, JUSTICE AND STRONG INSTITUTIONS

Goal 16 is one of 17 Global Goals that make up the 2030 Agenda for Sustainable Development. The SDGs build upon the foundation of the Millennium Development Goals (MDGs) which ended in 2015, but focus more on the root causes of poverty and development while recognising that an integrated approach is crucial for progress across the multiple goals. The SDGs reflect that conflict and instability are significant impediments for development.

EFFECT OF CONFLICT ON ACHIEVING THE MDGS

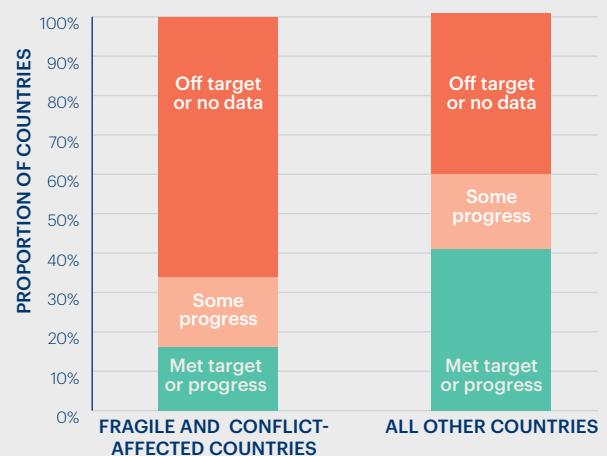
Conflict has prevented many countries from reaching their development goals. There are 33 states that have been identified as fragile and in conflict situations by the World Bank. This includes countries currently in conflict such as Afghanistan, Iraq and Syria. It also includes countries that are fragile but not in conflict and have had historical conflicts or are politically unstable such as Bosnia and Herzegovina, Cote d'Ivoire, Kosovo and Timor-Leste.

These fragile and conflict-affected countries achieved significantly less progress than other developing countries in the MDGs. On average only 16 per cent of these countries met or made progress on their MDGs targets. Fragile and conflict affected countries were on average 25 per cent more likely to have missed their MDG goals than other countries.

MDG indicators for which the majority of fragile and conflict-affected countries had the poorest results for, were those that addressed child mortality, maternal health and environmental

FIGURE 5.1 AVERAGE PROGRESS IN MILLENNIUM DEVELOPMENT GOALS FOR FRAGILE AND CONFLICT COUNTRIES VS OTHER COUNTRIES

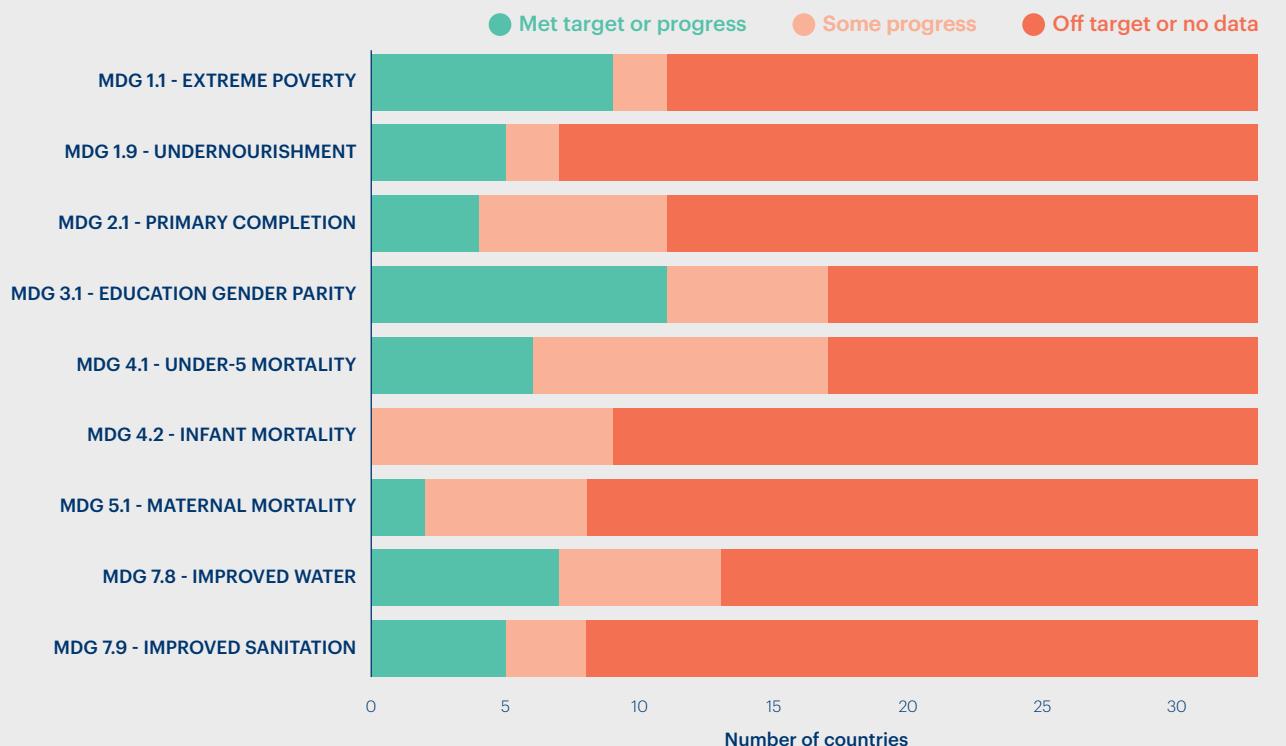
On average, fewer countries that were in conflict situations achieved their Millennium Development Goals than other countries.



Source: World Bank, IEP Calculations

FIGURE 5.2 PERFORMANCE IN MILLENNIUM DEVELOPMENT GOALS FOR FRAGILE AND CONFLICT-AFFECTED COUNTRIES

Fragile states under-performed the global average or had insufficient data in the vast majority of indicators.



Source: World Bank, IEP Calculations

“ Many of the fragile and conflict-affected countries have difficulty in maintaining the necessary systems to adequately capture data.

sustainability. No conflict-affected country achieved the goal of reducing by two-thirds the under-five mortality rate between 1990 and 2015.

Additionally, many of the fragile and conflict-affected countries have difficulty in maintaining the necessary systems to adequately capture the data. This can lead to poor quality data, resulting in situations appearing worse or better than what they are.

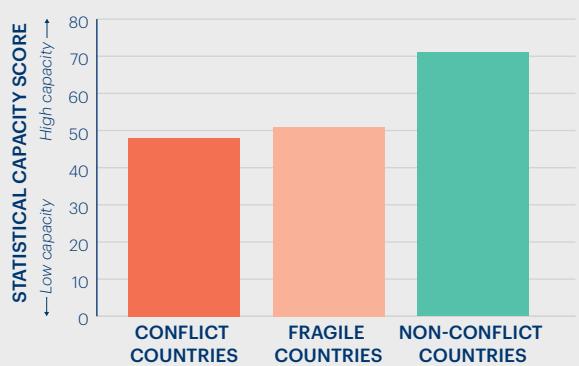
The MDG process demonstrated the length of time required to build capacity to capture the relevant data for the international measures. The first indicator for the MDGs was to halve the proportion of people whose income is less than \$1.25 a day by 2015. However, in 2015 there were slightly less than half of all countries that had at least two data points on this measure. The effect of this is that progress in these countries could not be determined as at least two data points are required to make a calculation.¹

IDENTIFYING OVERLAPS WITH ACTUAL DRIVERS OF VIOLENCE

Through Goal 16, the SDGs recognise the long reaching consequences of conflict and violence for development outcomes. Not only is violence a severe hindrance for development, it can reverse many years of development gains. Conflict greatly affects economic development by reducing foreign direct investment and the broader macro-economic environment. This affects poverty, life expectancy and education outcomes, as well as indicators which are essential for longer term development like infant mortality and

FIGURE 5.3 WORLD BANK ESTIMATES OF STATISTICAL CAPACITY IN CONFLICT, FRAGILE AND NON-CONFLICT COUNTRIES

Countries that are fragile and conflict-affected have much lower statistical capacity than all other countries. This means they undertake fewer surveys less frequently with less methodological rigour.



Source: World Bank, IEP Calculations

access to services. Everyday interpersonal violence which Goal 16 also measures, affects all countries and has detrimental social and economic impacts in every country in the world. Even high income countries have interpersonal violence that severely impacts on human wellbeing and socio-economic progress. This underscores the universality of the Goal and its applicability to all nations.

For nations affected by armed conflict, there is also the concept of a conflict trap, whereby the impact of conflict further increases some of the risk factors of conflict. Low socio-economic development can support the conditions for social violence and conflict, but it is also a consequence of violence and conflict. Countries with weak institutions are much more vulnerable to conflict as they do not have an effective means for conflict resolution. Losses in GDP from conflict in 2015 were estimated to be nearly \$119 billion in PPP. As conflict impacts the economy in the immediate term, potentially destroying entire industries, the impact of conflict is also long term, reducing future development opportunities.

In order to address the drivers of violence and conflict the focus cannot be purely on the traditional development agenda of health, education and poverty. Rather, as Goal 16 recognises, governance, inequalities and institutions need to be addressed

as well as violence reduction. IEP terms this focus on the drivers of peace as Positive Peace or the “*attitudes, institutions and structures which create and sustain peaceful societies.*”

PEACE AND THE SDGS

Goal 16 seeks to measure instances of violence, as well as some of the drivers of peace. The first two targets of Goal 16 focus on actual measures of violence which is also known as Negative Peace, a direct measure of violence or fear of violence. Target 16.1 is to significantly reduce all forms of violence and related death rates everywhere. This includes conflict-related deaths as well as deaths from homicide.

Goal 16 also recognises that in order to reduce violence there is a need to focus on certain attitudes, institutions and structures which create and sustain peaceful societies. IEP deals with such factors through the concept of Positive Peace. These same factors also lead to many other positive outcomes which society feels are important. Therefore, Positive Peace is described as creating an optimum environment for human potential to flourish. IEP has empirically developed a framework for Positive Peace which is based on eight factors. These Pillars are partly represented in Goal 16.

TABLE 5.1 COVERAGE OF THE EIGHT POSITIVE PEACE FACTORS AND SUSTAINABLE DEVELOPMENT GOALS

SUSTAINABLE DEVELOPMENT GOALS	VIOLENCE AND CONFLICT	ACCEPTANCE OF THE RIGHTS OF OTHERS	EQUITABLE DISTRIBUTION OF RESOURCES	FREE FLOW OF INFORMATION	GOOD RELATIONS WITH NEIGHBOURS	HIGH LEVELS OF HUMAN CAPITAL	LOW LEVELS OF CORRUPTION	_Sound Business Environment	Well-functioning Government
Goal 1 End poverty in all its forms everywhere			●						
Goal 2 End hunger, achieve food security and improved nutrition and promote sustainable agriculture		●			●			●	
Goal 3 Ensure healthy lives and promote well-being for all at all ages	●	●			●			●	
Goal 4 Ensure inclusive and equitable quality education and promote lifelong learning opportunities for all	●	●			●			●	
Goal 5 Achieve gender equality and empower all women and girls	●				●			●	
Goal 6 Ensure availability and sustainable management of water and sanitation for all		●			●			●	
Goal 7 Ensure access to affordable, reliable, sustainable and modern energy for all				●	●			●	
Goal 8 Promote sustained, inclusive and sustainable economic growth, full and productive employment and decent work for all	●	●	●	●	●		●	●	
Goal 9 Build resilient infrastructure, promote inclusive and sustainable industrialization and foster innovation					●			●	
Goal 10 Reduce inequality within and among countries	●	●							●
Goal 11 Make cities and human settlements inclusive, safe, resilient and sustainable	●	●		●	●			●	
Goal 12 Ensure sustainable consumption and production patterns						●		●	
Goal 13 Take urgent action to combat climate change and its impacts						●		●	
Goal 14 Conserve and sustainably use the oceans, seas and marine resources for sustainable development						●		●	
Goal 15 Protect, restore and promote sustainable use of terrestrial ecosystems, sustainably manage forests, combat desertification, and halt and reverse land degradation and halt biodiversity loss						●		●	
Goal 16 Promote peaceful and inclusive societies for sustainable development, provide access to justice for all and build effective, accountable and inclusive institutions at all levels	●	●	●	●	●	●	●	●	●
Goal 17 Strengthen the means of implementation and revitalise the global partnership for sustainable development		●		●	●			●	

FIGURE 5.4 POSITIVE PEACE FACTORS AND VIOLENCE BY SDG COVERAGE

The SDGs place an emphasis on high levels of human capital and well-functioning government.

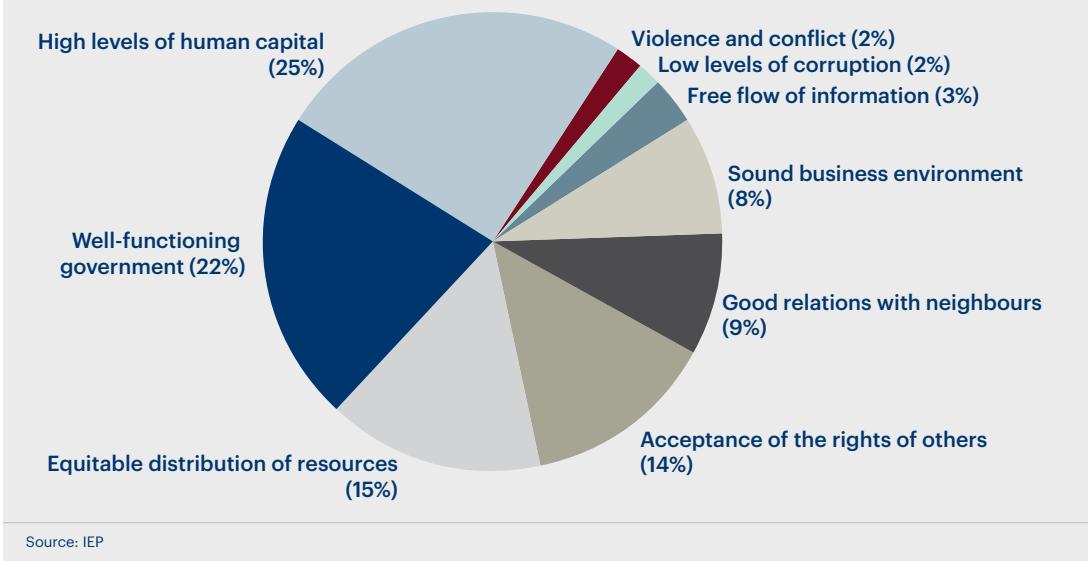


Figure 5.4 shows the distribution of Positive Peace factors among the SDGs. The SDGs have particular focus on two of the Positive Peace factors. Of the 17 SDGs, 15 are related to the Positive Peace factor of *high levels of human capital*. This is unsurprising as this factor is most directly related to levels of development. There is also an emphasis on *well-functioning government* in the SDGs with relevance to 13 of the goals.

However, some of the Positive Peace factors are not strongly covered by the SDGs. In particular, Low Levels of Corruption is only covered by one goal; Goal 16. This is highly relevant as there is a statistically significant relationship between peace and corruption.² The Positive Peace factor of *free flow of information* is also not significantly addressed by the SDGs.

As well as Positive Peace factors, there is also limited focus in the SDGs on violence and conflict, which is only covered by Goal 16. As seen earlier, limiting conflict and violence is essential for other development goals to be met. However, Goal 16 only includes a subset of the spectrum of violence that can occur. The GPI, for example, uses 23 indicators to measure violence and the fear of violence.

The GPI is comprised of three domains: ongoing domestic and international conflict; societal safety and security; and militarisation. Goal 16 is focused only on the first two of these domains and ignores militarisation entirely. The only target which includes any reference to weaponry or militarisation is target 16.4 which in part relates to small arms. There are also gaps in societal safety which are included in the GPI but not in Goal 16. This includes measures of the impact of terrorism, violent demonstrations, levels of political instability and political terror.

MEASURING THE OFFICIAL GOAL 16 INDICATORS

This section presents an audit of existing data that could be used to measure Goal 16. Two aspects are important in measuring Goal 16: the length of time required to capture relevant data; and the lack of statistical capacity in many countries, particularly in fragile or conflict affected countries.

Increasing data capacity is particularly important for Goal 16. The least peaceful countries have among the lowest statistical capacity. The Statistical Capacity Indicator by the World Bank measures the capacity of a country's national statistical system using 25 individual indicators. There is a moderate correlation of -0.37 between statistical capacity and the GPI. The correlation between statistical capacity and peace is likely to be even stronger except the World Bank do not provide a score for many countries that have high statistical capacity. These countries are generally the most peaceful: 18 of the 20 most peaceful countries do not have a score.

Given the experience of the MDGs where data was not captured for all countries for every goal even when the goals had concluded, a greater effort on building the statistical capacities of countries must be an essential component of the SDGs. In measuring Goal 16 significant resources will need to be invested particularly in less peaceful countries that have reduced statistical capacity.

The results of the audit of available data for measuring Goal 16 shows that there is data available with some coverage of the targets. This audit uses a rating system measuring the coverage, disaggregation and suitability of available data to fit the purpose of the indicators. It was found that there are suitable measures for all indicators. Nevertheless, only two indicators could currently be measured to the full scope and required disaggregation.

Of the 23 indicators to be measured, only two were rated as fully disaggregated. Thirteen indicators can be measured immediately but require further disaggregation or coverage. A close measure is available for seven indicators. This means new data will still need to be developed, but there are data available for short term estimations of progress in these targets.

“ Limiting conflict and violence is essential for other development goals to be met.

FIGURE 5.5 STATISTICAL CAPACITY INDICATOR VS INTERNAL GPI SCORE

Countries that are more peaceful generally have greater statistical capacity.



Source: World Bank, IEP

TABLE 5.2 RESULTS OF AUDIT OF GOAL 16

GRADES			INDICATOR NUMBER			
TARGET	TARGET		1	2	3	4
16.1	Significantly reduce all forms of violence and related death rates everywhere	B	B	C	B	
16.2	End abuse, exploitation, trafficking and all forms of violence against and torture of children	B	C	B		
16.3	Promote the rule of law at the national and international levels and ensure equal access to justice for all	B	B			
16.4	By 2030, significantly reduce illicit financial and arms flows, strengthen the recovery and return of stolen assets and combat all forms of organized crime	C	D			
16.5	Substantially reduce corruption and bribery in all their forms	B	C			
16.6	Develop effective, accountable and transparent institutions at all levels	C	B			
16.7	Ensure responsive, inclusive, participatory and representative decision-making at all levels	B	C			
16.8	Broaden and strengthen the participation of developing countries in the institutions of global governance	A				
16.9	By 2030, provide legal identity for all, including birth registration	B				
16.10	Ensure public access to information and protect fundamental freedoms, in accordance with national legislation and international agreements	B	B			
16.a	Strengthen relevant national institutions, including through international cooperation, for building capacity at all levels, in particular in developing countries, to prevent violence and combat terrorism and crime	A				
16.b	Promote and enforce non-discriminatory laws and policies for sustainable development	C				

TARGET 16.1: REDUCE ALL FORMS OF VIOLENCE

The first target of Goal 16 is the most measurable and can be directly measured by the Global Peace Index. The goal is to **significantly reduce all forms of violence and related death rates everywhere** and can be measured through four indicators.

16.1.1 Number of victims of intentional homicide per 100,000 population, by sex and age

Intentional homicide is broadly measured at national and international levels and is one of the most direct measures of violence. As such it is included as an indicator in the GPI as a measure of internal violence. Globally, homicides kill many more people than other forms of violence. For example, 13 times as many people are killed globally by homicides than die in terrorist attacks. At least 437,000 people were victims of homicide in 2015.

Most countries already have the internal capacity to record homicides as it is a component of criminal justice systems. Countries report their homicide statistics to the UNODC which then makes the data available in one dataset. The UNODC shows data disaggregated on sex for all but four out of the 193 UN member states. Fewer countries have disaggregation for age groups which will require further record keeping.

There may be some complications that emerge from specific legal contexts as to what is considered international homicide. For example, the International Classification of Crime for Statistical Purposes includes in its definition of intentional homicide killings caused by excessive force by law enforcement. Not all countries record deaths by law enforcement. There are also problems with keeping the data up to date, 61 per cent of countries with intentional homicide reported to the UNODC have 2010 as the most recent year of data.

16.1.2 Conflict-related deaths per 100,000 population (disaggregated by age group, sex and cause)

There are several measures of battle-related and conflict deaths. In the GPI the data sources include Uppsala Conflict Data Program (UCDP) and International Institute for Strategic Studies (IISS) Armed Conflict Database (ACD), both are external sources which provide estimates on deaths from armed conflicts. There is no current data source which has conflict deaths disaggregated by age group and sex.

By definition, conflict-related deaths occur in countries that have either armed conflict or war within their borders. Conflict generally reduces the capabilities of a government and requires resources to be channelled into conflict prevention. As such, countries which are post-conflict also have lesser statistical capacity. All of the 31 member states of the UN that are considered fragile or conflict affected have among the lowest performance for statistical capacity in the world. There are also limits on how accurate data captured in a conflict can be. As an example of this, estimates for the number of deaths from the duration of the Syrian civil war include 200,000 by the Violations Documentation Center³, 250,000⁴ by the United Nations and 320,000 Syrian Observatory for Human Rights.⁵

16.1.3 Percentage of the population subjected to physical, psychological or sexual violence in the previous 12 months

Official figures of reported crimes often need to be adjusted for under-reporting, with actual rates much higher. In many cases official figures are under-reported, such as in Mexico where only ten per cent of extortions are reported.

Physical, psychological and sexual violence would be criminal or civil offenses in the majority of countries. However, the indicator is a measure of the proportion of the population who have been victims of these types of violence in the last 12 months, rather than the number of convictions for criminal or civil claims. Accordingly, a better way to accurately measure this indicator is through victimisation surveys. The United Nations Interregional Crime and Justice Research Institute (UNICRI) helps conduct the International Crime Victims Survey which could be expanded from the 18 European countries measured in the European Crime and Safety Survey to cover all countries.

There is currently one very limited relevant data point from the Demographic and Health Surveys (DHS) Program: the percentage of women who experienced sexual violence in past 12 months. This indicator is limited to sexual violence against women and was asked in only 34 countries. The majority of this data is not timely either, with nearly three quarters of countries having no earlier data point than 2012. Countries which have measures of sexual violence against women in the past 12 months, as recorded by the DHS also perform poorly in the GPI. Around two-thirds of the countries that have a measure of sexual violence against women perform in the bottom half of the GPI. This indicator will require expanded victimisation surveying before it can be fully measured.

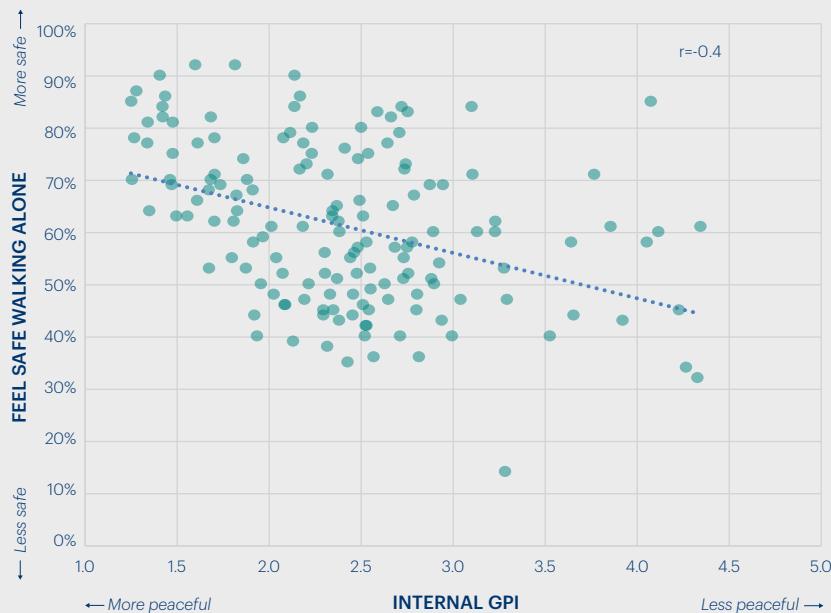
16.1.4 Proportion of people that feel safe walking alone around the area they live

The Gallup World Poll asks in 164 countries: "Do you feel safe walking alone at night in the city or area where you live?" This indicator is a direct measure of the fear of violence. Perceptions of safety is a proxy for peace in society in general. This is apparent in figure 5.6 which shows a correlation between people who feel safe walking alone and the levels of internal peace in a country.

As this indicator is survey based it can be disaggregated by age and sex. It is important to disaggregate perceptions of fear as there could be segments of the country which disproportionately feel fear. In 2015, across the world, females and the young felt more fear than the global average. There were 39 per cent of females who were fearful of walking alone which is similar to 37 per cent of those aged 15-29 years old. In contrast, 28 per cent of males felt fear from walking alone. This demonstrates that males disproportionately feel safer. Disaggregation is necessary in order to inform policy as it demonstrates which segments of the population are more vulnerable.

FIGURE 5.6 2016 INTERNAL GPI VS PERCENTAGE OF PEOPLE WHO FEEL SAFE WALKING ALONE

Countries that are more peaceful internally have a higher proportion of people who feel safe walking alone.



Source: Gallup, IEP

“ Most countries already have the internal capacity to record homicides, as it is a component of criminal justice systems.

MEASURING TARGET 16.1

There are two of the four indicators which can be measured in Target 16.1 in their current state, however, there are some gaps and disaggregation could be improved. The only disaggregated indicator is perceptions of safety walking alone at night which is based on a survey, but only covers 156 of the 193 UN member states.

Nevertheless, three out of the four indicators in their current state are close to measuring what is required. The only exception being Indicator 16.1.3 which measures physical, psychological or sexual violence in the last 12 months.

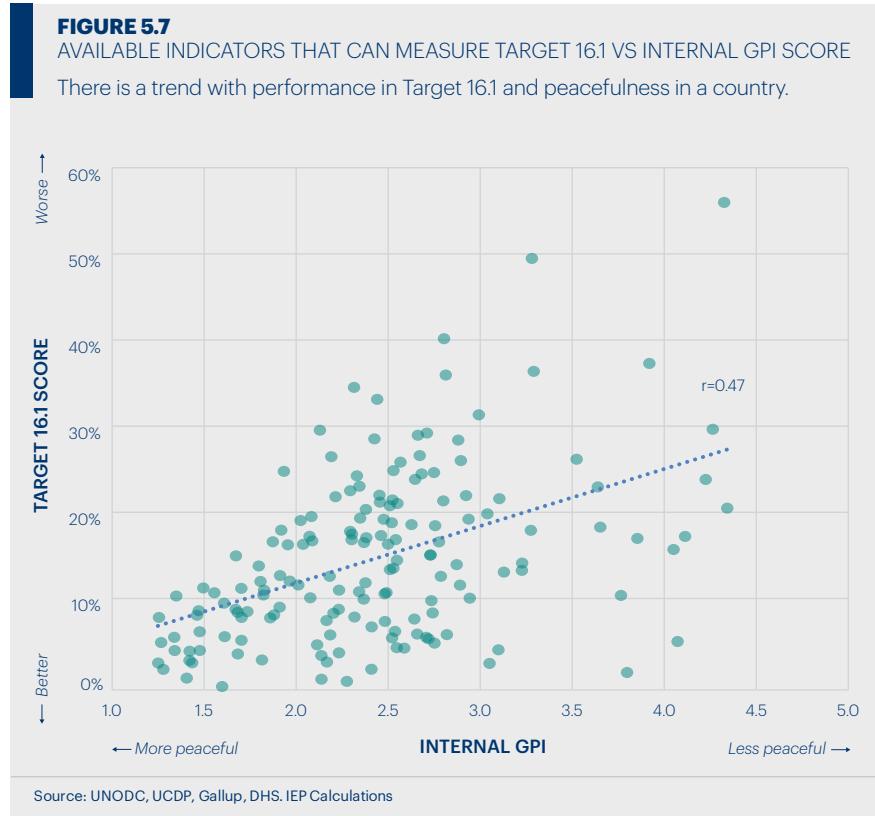
Using the available data, a simple index measuring performance for Target 16.1 can be developed. Table 5.3 shows the ten worst countries for Target 16.1, which include three countries that were in conflict in 2014. Whilst this is a very limited measure as the data is incomplete, it does show that there are several countries that have high homicides and relatively few people who feel safe walking alone. There is also a connection between the countries that perform the worst in Target 16.1 and those that perform poorly in the GPI. Seven out of the ten worst ranked countries across Target 16.1 are in the worst performing quadrant of internal measures of peace.

TABLE 5.3 TEN WORST RANKED COUNTRIES ACROSS TARGET 16.1

TARGET 16.1		INDICATOR	16.1.1	16.1.2	16.1.3	16.1.4
RANK	COUNTRY	HOMICIDE RATE	BATTLE DEATHS	SEXUAL VIOLENCE	SAFE WALKING	
193	Syria	2	66,649	no data	32%	
192	Venezuela	54	-	no data	14%	
191	Honduras	84	-	3%	48%	
190	Democratic Republic of the Congo	13	978	16%	43%	
189	Colombia	32	113	12%	47%	
188	El Salvador	40	-	no data	36%	
187	Lesotho	38	-	no data	38%	
186	Uganda	11	-	17%	55%	
185	Belize	45	-	no data	50%	
184	South Africa	32	-	no data	40%	

There is also a trend between the measure of Target 16.1 and internal peace from the GPI. However, this should not be surprising as internal peace includes two of the same indicators.

“ Sexual violence is the only indicator for Target 16.1 that cannot currently be adequately measured.



TARGET 16.2: END ABUSE AND VIOLENCE TOWARDS CHILDREN

The second target of Goal 16 is to **end abuse, exploitation, trafficking and all forms of violence against and torture of children**. This is particularly difficult to fully measure based on the existing stock of data. All forms of trafficking, exploitation and crimes against children are underreported for a range of reasons.

16.2.1 Percentage of children aged 1-17 who experienced any physical punishment and/or psychological aggression by caregivers in the past month

UNICEF has figures for violent discipline of children aged 2-14. This data is disaggregated by physical punishment and psychological aggression, as well as sex, whether victims live in an urban or rural environment and the household wealth quintile. The data is available for 60 of the 193 UN member states and is based on Demographic and Health Surveys (DHS), Multiple Indicator Cluster Surveys (MICS) and other nationally representative surveys. This data relies on answers from the primary caregivers or any adult household member. There may be problems regarding the accuracy of data as the surveys require caregivers to self-report instances of violence which means there is likely to be a very high underreporting rate. As an attempt to verify the data, it could be compared to the reports of total sexual offences against children by the UNODC. This is a measure of the number of police-recorded offences at the national level. There are also global figures of violence against children compiled by UNICEF from 190 countries. Although there is the need for current measures to also include children aged one and 15-17 as well as an increase in coverage to include all countries, there are data currently available to measure this indicator or proxy indicators.

16.2.2 Number of victims of human trafficking per 100,000 population, by sex, age group and form of exploitation

As with violence against children by caregivers, it is very difficult to have accurate numbers for victims of trafficking, however there are some measures that can be used. The UNODC collects information on the number of detected victims of human trafficking and has expertise in measuring hidden populations. The U.S. Department of State also releases a Trafficking in Persons Report which records governmental anti-trafficking initiatives.⁶ The Slavery Index by the Walk Free Foundation provides estimates on trafficked people all around the world and was selected by this audit purely because of the extended coverage it offered. A consolidated effort to have accurate and disaggregated data that goes beyond 'like-country estimates' for all countries of the number of victims of human trafficking will require significant resources. This is not the only measure of slavery in the SDGs. Target 5.2 and Target 8.7 both include the elimination of trafficking.

16.2.3 Proportion of young women and men aged 18-29 who experienced sexual violence by age 18

Currently the Demographic and Health Surveys includes a question relating to sexual violence for women before the age of 18. However, the coverage is limited to only 34 countries and the records are slightly dated with only two inclusions from 2014. Furthermore, it does not cover men. However, the majority of the countries covered by this question have relatively low peace and lesser statistical capacities. This suggests that a similar survey could be undertaken and broadened to measure this indicator.

TARGET 16.3: PROMOTE THE RULE OF LAW

The third target is to **promote the rule of law at the national and international levels and ensure equal access to justice for all**. This target is most related to the Positive Peace measure of *well-functioning government* and to a lesser extent the *acceptance of the rights of others*. A well-functioning government delivers high-quality public and civil services, creates trust and participation, demonstrates political stability and upholds the rule of law.

There are two indicators to measure the promotion of the rule of law for Goal 16. The first is the crime reporting rate. If there are a large number of crimes that are not reported to authorities, it can reflect either a lack of trust in the system or little perceived concern for that particular crime.

16.3.1 Proportion of victims of violence in the previous 12 months who reported their victimization to competent authorities or other officially recognized conflict resolution mechanisms

This indicator seeks to measure the proportion of victims of violence who had reported being victims. This reporting involves having interactions with police and the judicial system as well as other dispute resolution institutions recognised by the state such as traditional or community justice systems. This data is from victimisation surveys which, according to a review by UNODC, have been implemented by at least 72 countries since 2009. The majority of victimisation surveys have been undertaken by National Statistical Offices. IEP has attempted to compile these various surveys to determine international rates. This includes from *L'Institut National des Hautes Études de la Sécurité et de la Justice* (INHESJ), *Ministerio de Justicia y Derechos Humanos* (MJDH) and other national offices.

There are difficulties in comparing underreporting rates from different countries. Different rates could reflect cultural differences as well as a lack of trust in authorities. This includes a different understanding of what behaviour constitutes a crime or whether there is a culture of not reporting grievances. For example, a slap by an older female to her adult son would not be considered grounds for assault in many countries. Another example is corporal punishment. Although Article 19.1 of the Convention on the Rights of the Child prevents corporal punishment, in some countries it is not considered a crime. If asked, a victim of corporal punishment may not consider they have been the victim of violence but rather see it as a normal and acceptable means of discipline.

There are also potential reporting concerns if victims are subjected to violence perpetrated by the state: there may not be accurate reporting if a state entity is undertaking surveys. In order to better direct policy there is also a requirement for disaggregation of the results of victimisation surveys by sex, age, type of crime and potentially the ethnicity and citizenship of the victim.

16.3.2 Unsentenced detainees as a percentage of overall prison population

Measures of the proportion of unsentenced detainees are indicative of the efficiency of the justice system. Countries which have smaller GDPs per capita and smaller government budgets tend to have fewer people incarcerated or in pre-trial detention. Nevertheless, countries that have high levels of unsentenced prisoners are delaying the carriage of justice. There are certain circumstances whereby pre-trial detention is appropriate, including the risk of absconding or to prevent further crimes. But when pre-trial detention is disproportionately used it reflects a weakness in the judicial system.

The UNODC has measures of unsentenced detention in 114 countries. This data is disaggregated for counts of those in detention by sex, whether they are adults and juveniles, and citizens and foreign citizens. The World Prison Brief by the Institute for Criminal Policy Research also records pre-trial detention in 184 countries. This data is not disaggregated. Compared to many of the indicators for the SDGs, this indicator is relatively well covered. Of the countries covered by the UNODC, 96 per cent have more than one year of data allowing for analysis on progress for the indicator.

TARGET 16.4: REDUCE ILLICIT FINANCIAL AND ARMS FLOWS

Target four is to, **by 2030, significantly reduce illicit financial and arms flows, strengthen the recovery and return of stolen assets and combat all forms of organized crime**.

By definition, those engaged in illicit financial or arms flows will not want their activity known. As such, there will be great difficulties in creating a measure that is direct and meaningful for this target.

16.4.1 Total value of inward and outward illicit financial flows (in current United States dollars)

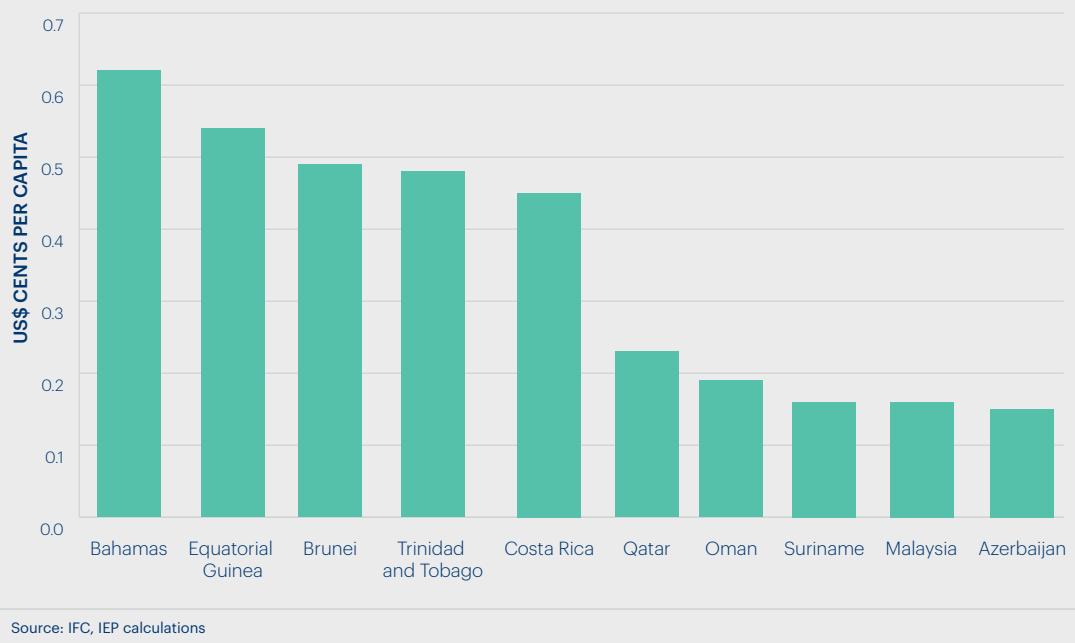
Illicit financial flows reduce the potential revenue for a country and undermines governance. There may also be an impact on economic growth as funds are channelled outside a country. Furthermore, there may also be security issues which arise as funds can be used to expand illegal enterprises such as drugs, rebellions or arm cartels.

There are no current effective measures of inward and outward flows with cash transactions particularly covered by current methodologies. The Addis Ababa Action Agenda shows the international community is seeking greater data on illicit financial flows. It is also possible that with the release of the so-called Panama Papers, which documented details of offshore companies that in some cases were seeking tax minimisation strategies, there will be a push towards greater measurement of financial flows.

A measure which could potentially be used in the interim is the International Finance Corporation (IFC) indicator of illicit financial flows for 145 relevant countries. Whilst this measure is an estimate and cannot show the granularity required by the indicator, it does allow for prioritisation of efforts. According to

FIGURE 5.8**TEN COUNTRIES WITH THE HIGHEST PER CAPITA ILLICIT FINANCIAL FLOWS**

Ten countries with the highest illicit financial flows per capita are outside the largest economies in the world.

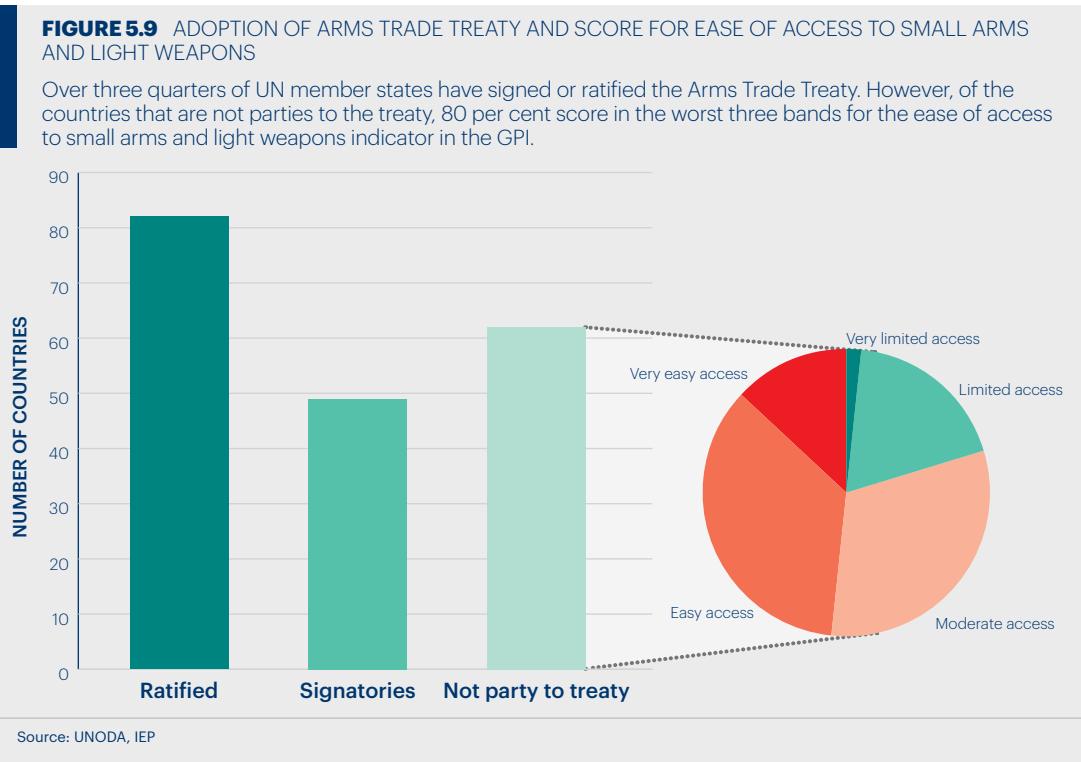


the IFC, of the over US\$1 trillion in illicit financial flows in 2013, over half was from five countries. These five countries are China, Russia, India, Mexico and Malaysia. With the exception of Malaysia, these countries are all in the 20 largest economies in the world.

These figures can also be broken down on a per capita basis. As figure 5.8 shows, the countries with the highest illicit financial flows per capita are not the biggest economies in the world.

FIGURE 5.9 ADOPTION OF ARMS TRADE TREATY AND SCORE FOR EASE OF ACCESS TO SMALL ARMS AND LIGHT WEAPONS

Over three quarters of UN member states have signed or ratified the Arms Trade Treaty. However, of the countries that are not parties to the treaty, 80 per cent score in the worst three bands for the ease of access to small arms and light weapons indicator in the GPI.



16.4.2 Proportion of seized small arms and light weapons that are recorded and traced, in accordance with international standards and legal instruments

There is no current measure of this indicator. There will be inherent difficulties in measuring the percentage of seized small arms and light weapons that are recorded and traced in compliance with international standards and laws. A proxy for the likelihood of compliance to international standards is the measure of the Arms Trade Treaty.

There are 62 countries that are not parties to the Arms Trade Treaty. Of these countries, 80 per cent score in the bottom three bands for the ease of access to small arms and light weapons indicator in the GPI. This shows that they have moderate to very easy access to small arms. It is likely that in countries with easy access to small arms there would be a higher proportion of seized weapons that are not recorded and traced in accordance with international standards. This is even more likely in countries that are not even parties to these international standards. The Arms Trade Treaty-Baseline Assessment Project (ATT-BAP), an initiative that provides guidance on the obligations of states under the Arms Trade Treaty, could be an important framework for measuring this indicator.⁷ The UN Office for Disarmament Affairs (UNODA) currently promotes disarmament efforts and records the relationship between states and the Arms Trade Treaty.

Countries with high levels of illicit financial flows and easy access to small arms and light weapons should be prioritised even in the absence of reliable data.

TARGET 16.5: REDUCE CORRUPTION AND BRIBERY

The fifth target for Goal 16 is to **substantially reduce corruption and bribery in all their forms**. IEP has previously found there is a relationship between peace and corruption.⁸ It was found that there is a level of corruption which correlates with a significant reduction in peace. If a country has low levels of corruption, then increases in corruption will have little effect on peace. However, once a certain threshold is reached then small increases in corruption can result in large decreases in peace.

16.5.1 Proportion of persons who had at least one contact with a public official, who paid a bribe to a public official, or were asked for a bribe by these public officials, in the previous 12 months, disaggregated by age group, sex, region and population group

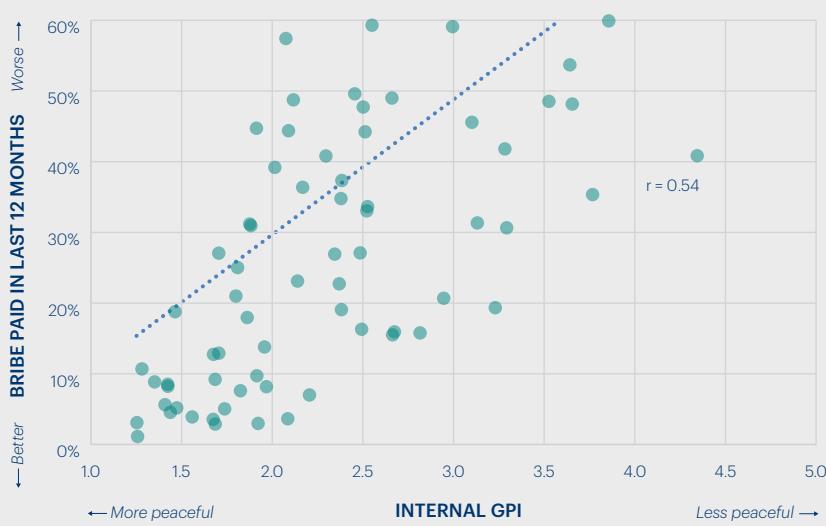
There are multiple measures of corruption which rely on survey data. The Global Corruption Barometer 2013 by Transparency International asked people in 91 countries if they had paid a bribe to any one of eight services listed in the past 12 months. This included Education, Judiciary, Medical and Health, Police, Registry and Permit Services, Utilities, Tax Revenue and/or Customs and Land Services. From this data IEP calculated a measure of the percentage of the population that paid a bribe in the last 12 months to a government service. It correlates at a statistically significant level with internal peace.

16.5.2 Proportion of businesses who had at least one contact with a public official and who paid a bribe to a public official, or were asked for a bribe by these public officials, during the previous 12 months

Bribery does not just affect private citizens and public officials. Businesses incur additional costs if they are required to pay bribes as well. The World Bank has estimated that over US\$1

FIGURE 5.10 CORRUPTION VS 2016 INTERNAL GPI

Lower corruption correlates with greater internal peace.



If a country has low levels of corruption, then increases in corruption will have little effect on peace. However, once a certain threshold is reached, small increases in corruption can result in large decreases in peace.

trillion is paid in bribes each year. As with all forms of corruption, there is incomplete data as much corruption is hidden. A survey of relevant businesses will be required to determine the prevalence and rates of bribery between businesses and public officials in a given year. The World Bank Enterprise Surveys asks more than 130,000 manufacturing and services firms in 135 countries if unofficial payments or gifts are required to do business. This includes a measure of the percentage of firms experiencing at least one bribe payment request. Bribery in businesses significantly correlates at with bribery by individuals with an r value of 0.6

TARGET 16.6: DEVELOP TRANSPARENT INSTITUTIONS

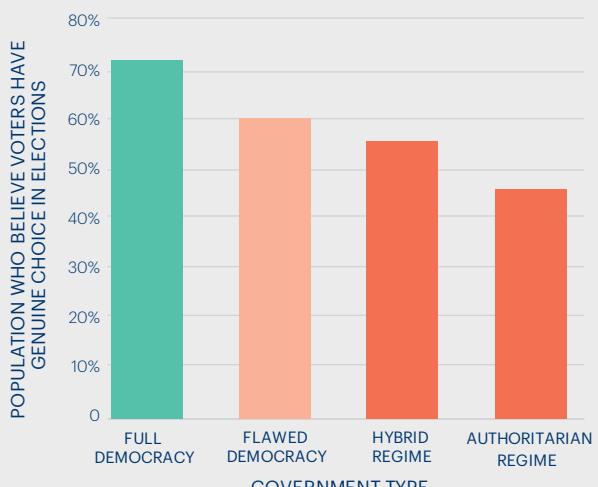
Target six is to **develop effective, accountable and transparent institutions at all levels**. The two indicators which are designed to measure this target focus on financial accountability as well as reporting of satisfaction with public services.

16.6.1 Primary government expenditures as a percentage of original approved budget, disaggregated by sector (or by budget codes or similar)

This measures the capacity of the state to budget and can act as an indicator of transparency. The Public Expenditure and Financial Accountability Program have a measure of aggregate expenditure compared to original approved budget. This program is a partnership between the World Bank, the European Commission and various other national bodies or governments. The countries that score the worst on this measure also have a history of conflicts. Of the ten countries that had the worst score for this measure, seven of the countries are conflict or post-conflict countries. These countries are Central African Republic, Liberia, Madagascar, South Sudan, Yemen, Timor-Leste and Zimbabwe. This demonstrates that governments which have been in conflict have reduced capacity to provide effective and transparent institutions. It further shows that post-conflict countries need to be prioritised in the SDGs.

FIGURE 5.11
CHOICE IN ELECTIONS VS GOVERNMENT TYPE

Countries that are more democratic have higher levels of belief that genuine choice is offered in elections.



Source: World Values Survey, EIU, IEP Calculations

16.6.2 Proportion of the population satisfied with their last experience of public services

There are various perception surveys of satisfaction with national governments, including the Barometer surveys, Gallup and World Values Survey. Further disaggregation of questions will enable understanding about satisfaction levels in different parts of a country related to specific services. The most comprehensive single source of data that currently exists to measure this indicator is the Gallup World Poll. The Gallup World Poll asked people in 138 countries whether they have confidence in the national government.

TARGET 16.7: ENSURE PARTICIPATORY DECISION-MAKING

Target seven is to **ensure responsive, inclusive, participatory and representative decision-making at all levels**. A core component of development includes participation in the decisions which have an impact on an individual or groups' life and wellbeing.⁹ Participation also underpins several of the Positive Peace factors. Part of the necessity for free flow of information is to have a free media and access to information, so as to inform participation in the political process. Inclusive and participatory government and public services are also necessary to ensure the acceptance of the rights of others.

16.7.1 Proportions of positions (by age group, sex, persons with disabilities and population groups) in public institutions (national and local legislatures, public service, and judiciary) compared to national distributions

This indicator is a measure of demographic cohort representation in public institutions. It is a proxy for participation on the assumption that if diversity in public institutions reflects national distributions of diversity then minority groups will be better represented. Whilst it is an incomplete measure, as countries that have the highest representation of women in parliament are not necessarily more peaceful or free, it does connect to legitimacy. The World Bank, along with UN Women and the Inter-Parliamentary Union, measure the proportion of women in parliament. There is also information about labour distribution by the International Labour Organisation but needs to be more finely disaggregated to satisfy the goal.

16.7.2 Proportion of population who believe decision-making is inclusive and responsive, by sex, age, disability and population group

This indicator is perception based, asking for the belief of inclusive and responsive decision making across the population. Value based surveys will be the most appropriate way to measure. An available proxy for this indicator is included in the World Values Survey which asks if voters are offered a genuine choice in the elections. This was asked in 39 countries. There is a relationship between democracy and the belief that genuine choice is offered in elections, with the EIU Democracy Index correlating at 0.47 with the World Values Survey measure.¹⁰

TARGET 16.8: BROADEN PARTICIPATION IN GLOBAL GOVERNANCE

Target eight is to **broaden and strengthen the participation of developing countries in the institutions of global governance**. Although the SDGs are meant to apply to all countries, this target explicitly refers to developing countries. The participation and representation of developing countries is often not in accordance with the size of their economies or population. This measure could be recorded immediately as all it requires is a calculation of the level and significance of developing countries involvement in institutions. This includes regional bodies and trade agreements as well as international institutions and international governance structures.

16.8.1 Percentage of members and voting rights of developing countries in international organizations

This indicator is currently not measured. In order to be measured it will require a decision on which institutions to include. This is one of the few indicators in Goal 16 that could be measured immediately; it does not require any input from NSOs as country membership of multi-lateral organisations is available. This indicator, when developed, could be further analysed by population size or share of global GDP.

TARGET 16.9: LEGAL IDENTITY FOR ALL

The ninth target is to, **by 2030, provide legal identity for all, including birth registration**.

16.9.1 Percentage of children under 5 whose births have been registered with a civil authority, by age

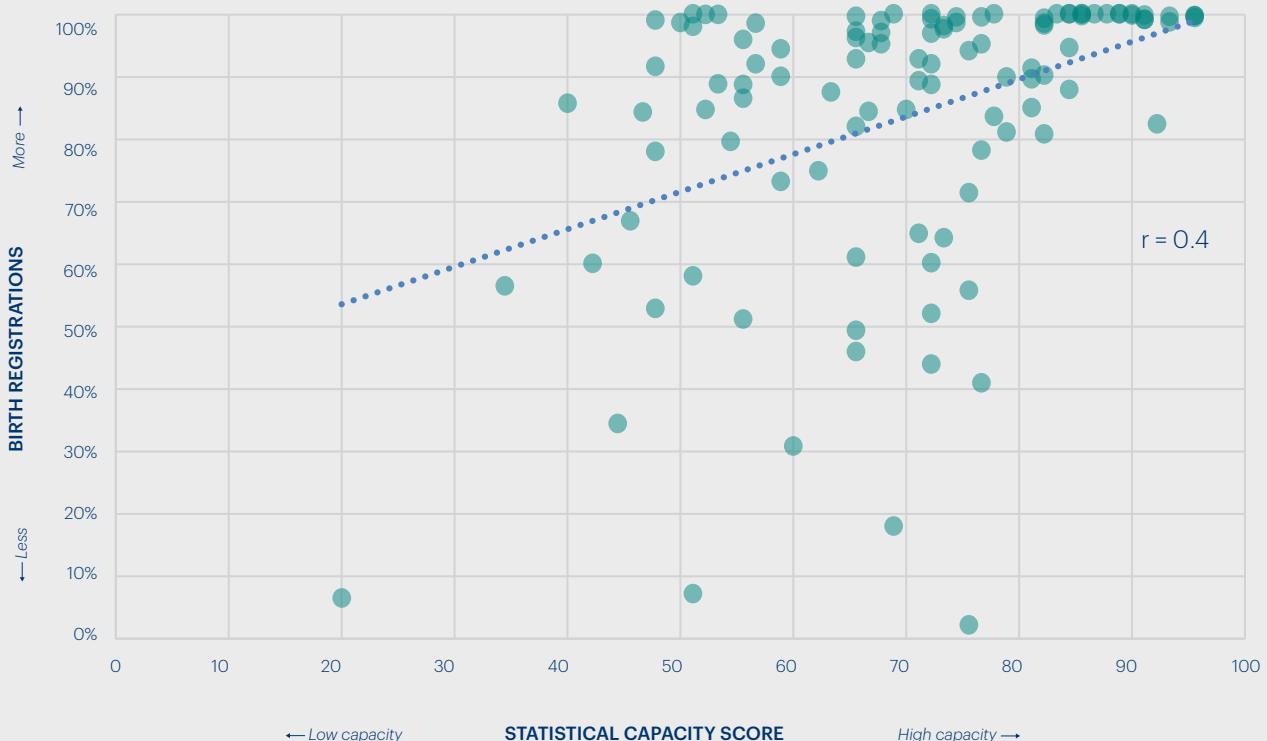
Birth registration is a proxy for legal representation. Registration of children is the first step for recognising their rights under the law. Furthermore, registration helps ensure that children are counted and can access the services of the state. It is essential for government planning for education, health and social services to have accurate demographic information to cope with current and future service demands.

UNICEF maintains global databases for a number of child protection indicators, as well as some regional databases such as the TransMONEE. The main sources of data include nationally representative household surveys, such as Multiple Indicator Cluster Surveys (MICS), Demographic and Health Surveys (DHS), Reproduction Health Surveys (RHS) and AIDS Indicator Surveys (AIS), as well as vital registration systems. The measure is of the percentage of children under age five whose births are registered. It is disaggregated by sex, place of residence and household wealth quintile.

There is a moderately statistically significant relationship between countries that have low statistical capacity and lower proportional levels of birth registration. This suggests that countries that have high statistical capacity also have the institutions in place to provide registration. The effect of this is that statistical capacity will need to be strengthened in the

FIGURE 5.12 PROPORTION OF BIRTH REGISTRATIONS FOR CHILDREN UNDER FIVE VS STATISTICAL CAPACITY SCORE

Countries that have lesser statistical capacity also are less likely to have proportionately high levels of birth registrations for children under five.



Source: UNICEF, World Bank

countries that are not registering all births. Birth registration could also be viewed as a proxy for statistical capacity.

TARGET 16.10: ENSURE PUBLIC ACCESS TO INFORMATION

The tenth target is to **ensure public access to information and protect fundamental freedoms, in accordance with national legislation and international agreements**. This target is very similar to the Positive Peace measures of *free flow of information and acceptance of the rights of others*. However, unlike free flow of information which includes measures of access to information through internet and mobile phone access, the measure for this target focuses on public access to information as well as the media, trade unionists and human rights advocates.

16.10.1 Number of verified cases of killing, kidnapping, enforced disappearance, arbitrary detention and torture of journalists, associated media personnel, trade unionists and human rights advocates in the previous 12 months.

The measure chosen to address target ten focuses on harassment and punishment of journalists as well as civil advocates. This is a proxy for the freedom of the media, which in of itself is a proxy for freedom of expression and information. As the indicator includes not only journalists but also media personnel, trade unionists and human rights advocates.

The Committee to Protect Journalists records instances of deaths of journalists around the world. Whilst this is an incomplete measure that does not include kidnapping, disappearances, arbitrary detention or torture it is a good proxy to these. The trend of deaths of journalists follows the pattern of

conflicts that have occurred. In the mid 1990s there were many conflicts, as well as deaths of journalists. Both conflicts and deaths started to increase again in around 2007.

Civil workers such as trade unionists and human rights activists could be measured by the International Trade Union Confederation who publish the Global Rights Index.¹¹ Indicators used to create this Index include the number of trade unionists who are arrested, detained, imprisoned, charged or fined around the world as well as violations of rights of membership and meetings.

Nearly half of all deaths of journalists in 2015 occurred in conflict countries. The countries that had the most deaths that were not in conflict have high levels of organised crime. This includes Brazil and Mexico. Furthermore, there is a correlation between journalist deaths and battle deaths for 193 countries at 0.67 which is statistically significant.

There is a World Press Freedom Index by Reporters Without Borders which moderately correlates with battle deaths. This measure also correlates with internal peace, highlighting that countries with low levels of peace are more dangerous are also more dangerous to journalists.

16.10.2 Number of countries that adopt and implement constitutional, statutory and/or policy guarantees for public access to information

It is likely that UNESCO will continue collecting data relevant to this indicator through the Media Development Indicators which cover 195 countries. This includes measures of the legal and policy framework, regulatory systems for broadcasting and defamation and censorship laws within a country. Other third party measures can be used whilst statistical capacity is being developed. One such example is the World Press Freedom Index developed by Reporters Without Borders which includes measures of the legislative framework governing news and information activities. The UNESCO Institute for Statistics has data for judicial processes relating to accessing information held by the state for 56 countries. The organisation Freedom Info also records whether countries have freedom of information legislation. There appears to be a relationship with peace and public access to information: 19 of the 20 most peaceful countries have freedom of information legislation compared to only eight of the 20 least peaceful countries.

TARGET 16.A: STRENGTHEN INSTITUTIONS TO PREVENT VIOLENCE

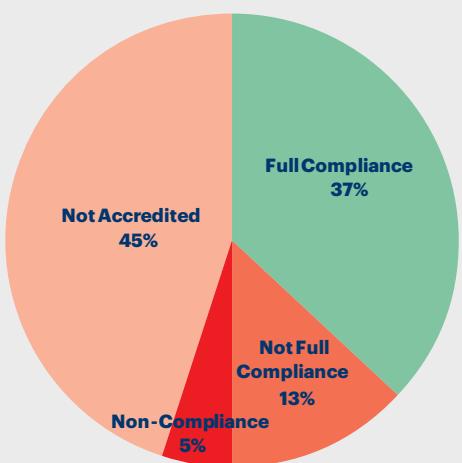
Target 16.a seeks to **strengthen relevant national institutions, including through international cooperation, for building capacity at all levels, in particular in developing countries, to prevent violence and combat terrorism and crime**.

16.a.1 Existence of independent national human rights institutions in compliance with the Paris Principles Percentage of victims who report physical and/or sexual crime to law enforcement agencies in the previous 12 months, disaggregated by age group, sex, region and population group

The Paris Principles were adopted by the UN in 1993 and establish norms for the functioning of National Human Rights

FIGURE 5.13 ACCREDITATION STATUS OF NATIONAL HUMAN RIGHTS INSTITUTIONS IN ALL UN MEMBER STATES

Nearly half of UN member states do not have accredited National Human Rights Institutions.



Source: ICC, OHCHR

Institutions which promote and protect human rights in different countries. This indicator records whether countries have National Human Rights Institutions which comply with these principals, which includeing the independence to monitor and report issues to government. This is not a measure of the status of human rights in a country, rather the legal status and governance rules of National Human Rights Institutions.

Both the most and least peaceful country in the 2016 GPI have not received accreditation. Similarly, Switzerland is in the top ten for the GPI and is considered non-compliant whereas Afghanistan, ranked 160, is fully compliant. Compliance with the Paris Principles is determined by a subcommittee of the International Coordinating Committee (ICC) for National Human Rights Institutions and compiled by the Office of the United Nations High Commissioner for Human Rights (OHCHR). Whilst most National Human Rights Institutions that have been accredited have been found as compliant, 45 per cent of UN member states have not been accredited. As such, 63 per cent of UN member states are either not in compliance with the Paris Principles or have not received accreditation.

TARGET 16.B: PROMOTE NON-DISCRIMINATORY LAWS

Target 16.b is to **promote and enforce non-discriminatory laws and policies for sustainable development.**

16.b.1 Percentage of the population reporting having personally felt discriminated against or harassed in the previous 12 months on the basis of a ground of discrimination prohibited under international human rights law

The indicator could be measured in the short term by proxy measurements. An available proxy includes the World Values Survey which asks whether people approve of the human rights movement.

METHODOLOGICAL ISSUES WITH GOAL 16

IEP's methodology as set out in this section of the report is a best effort to measure the official indicators for Goal 16 using available data. However, in doing so, several methodological issues surrounding Goal 16 have emerged. Many of these issues will need to be addressed.

AVAILABILITY

Although many of the goals can be measured to some degree, there are many indicators that are not currently being measured or are only partially measured. Some of the data measured may not be relevant to the indicator or may not be disaggregated at the level necessary. An example of this is indicator 16.2.3 which measures the percentage of young men and women who experienced sexual violence by age 18. The only data relevant and internationally comparable data on this is limited to 34 countries and only includes women.

As table 5.4 highlights, there is little data which is available across all of the 193 countries, which is relevant to the indicator selected and has the required level of disaggregation. This does not mean the data will be unavailable in the future. However, it does mean that to fully measure Goal 16 will take some years at best. A shortcoming of the MDGs was that the countries with the least amount of data all required progress. As the SDGs for Goal 16 relies largely on data which has not yet been captured, the feedback loop will take several years to develop. There are still opportunities to prioritise using other data sources and proxy data.

FIT FOR PURPOSE

Not all of the Indicators in the official IAEG process adequately cover the full ambition of the targets. Only three of the 12

“ Some form of independent analysis is needed to establish the veracity of official reporting.

TABLE 5.4 DATA AVAILABILITY, RELEVANCE TO THE INDICATOR AND LEVEL OF DISAGGREGATION REQUIRED

Green bars indicate data availability and whether the available data is relevant and disaggregated. Red means that the indicators are not fully relevant to the target and data is not fully disaggregated.

TARGET	AVAILABILITY	RELEVANCE	DISAGGREGATED
16.1			
16.2			
16.3			
16.4			N/A
16.5			
16.6			
16.7			
16.8	Not counted	Not counted	Not counted
16.9			
16.10			
16.a			
16.b	Not counted	Not counted	Not counted

targets are covered by all the indicators selected. That means that for 75 per cent of the targets there will be a substandard level of measurement. This includes incomplete measures such as target 16.2 which does not measure violence against children caused by people who are not caregivers. Another incomplete measure is seen in target 16.5 which seeks a substantial reduction in corruption and bribery in all their forms, but only measures bribery between public officials and the public or business. There are no measures of corruption other than bribery or other forms of governmental corruption, such as embezzlement.

For three targets there are no indicators which measure any aspect of the target. For example, target 16.4 seeks to combat all forms of organised crime, but there is no indicator that measures organised crime. The ways in which different targets are not measured by the chosen indicators is seen in table 5.5.

PERCEPTION BASED DATA

There is an emphasis on the SDGs to build up local capacity through NSOs for data collection. However, there will be perception challenges relating to the objectivity and capacity of many national offices. This necessarily means that some form of independent analysis is needed to establish the veracity of official reporting. Some of the targets which have high levels of political sensitivity include functioning of government, levels of violence and government initiated violence.

Table 5.6 lists potential reasons why some governments may not be best placed as an objective supplier of data. Some of the targets explicitly measure the efficacy of governments or activity of the government. These include measures of corruption, the targeting of journalists, trade unionists and human rights advocates and the inclusiveness of government and its services.

TABLE 5.6 TARGET AND POTENTIAL REASONS WHY THE STATE MAY BE PERCEIVED AS LESS OBJECTIVE

TARGET	POTENTIAL CONFLICT OF INTEREST WITH STATE
16.1	Government could be party in conflict
16.2	-
16.3	Assessment of Government efficacy
16.4	Illicit financial flows may involve some Government officials
16.5	Corruption may involve government elites
16.6	Assessment of Government efficacy
16.7	Assessment of Government inclusiveness
16.8	-
16.9	Government may be excluding particular groups
16.10	Government may be restricting access to information
16.a	Assessment of Government efficacy
16.b	Assessment of Government efficacy

If the government is the perpetrator of violence, then there will be little perceived objectivity of data for many of the indicators. For example, if a government is a party to a conflict then they will be unsuitable to provide estimates of conflict deaths. Similarly, a government may have implemented a policy of explicit discrimination against particular groups. In such a circumstance, government accounts of birth registration would likely be less accurate. The presence of third parties who are responsible either for data collection or validation of data will continue to be necessary, even with further full involvement of NSOs.

TABLE 5.5 HOW EACH INDICATOR WILL MEASURE EACH TARGET AND NOTES ON COVERAGE GAPS

TARGET	WHAT IS NOT BEING MEASURED
16.1 Significantly reduce all forms of violence and related death rates everywhere	
16.2 End abuse, exploitation, trafficking and all forms of violence against and torture of children	Only measuring violence against children caused by caregivers.
16.3 Promote the rule of law at the national and international levels and ensure equal access to justice for all	Not measuring promotion of rule of law at international levels, not related to access to justice.
16.4 By 2030, significantly reduce illicit financial and arms flows, strengthen the recovery and return of stolen assets and combat all forms of organized crime	No indicator related to strengthening the recovery and return of stolen assets. No indicator to measure organized crime.
16.5 Substantially reduce corruption and bribery in all their forms	No measures within or between governments.
16.6 Develop effective, accountable and transparent institutions at all levels	No measure of effectiveness of government. No focus on local governments.
16.7 Ensure responsive, inclusive, participatory and representative decision-making at all levels	Only measuring representative. No measure on responsiveness, inclusiveness or participatory nature of government.
16.8 Broaden and strengthen the participation of developing countries in the institutions of global governance	
16.9 By 2030, provide legal identity for all, including birth registration	
16.10 Ensure public access to information and protect fundamental freedoms, in accordance with national legislation and international agreements	No measure of protection of fundamental freedoms or alignment with law.
16.a Strengthen relevant national institutions, including through international cooperation, for building capacity at all levels, in particular in developing countries, to prevent violence and combat terrorism and crime	Not a measure of the target.
16.b Promote and enforce non-discriminatory laws and policies for sustainable development	No measure of enforcement.

PRACTICAL CONCERN

Some of the targets in Goal 16 are multidimensional, measuring a large concept. Just as the GPI uses 23 different indicators to measure peace, there are certain concepts which cannot be accurately measured by using only a few indicators. An example of this is the rule of law. The United Nations Rule of Law Indicators used 135 different indicators to measure the rule of law in different countries.¹² However, Goal 16.3, which relates to the promotion of the rule of law at the national and

international levels, has two indicators to measure this. Neither of the indicators are actual measures of the rule of law, but rather proxies for the efficacy of government judicial services.

There is also a relationship between some of the indicators for Goal 16 and internal peace. Table 5.7 shows the significant correlations between indicators for Goal 16 and the internal peace measure of the GPI.

TABLE 5.7 RELATIONSHIP BETWEEN INDICATORS FOR GOAL 16 AND INTERNAL PEACE

VARIABLE 1	VARIABLE 2	R VALUE
Battle Deaths (16.1.2)	Journalists Killed (16.10.1)	0.67
Sexual Violence Before Aged 18 (16.2.3)	Sexual Violence in the Past 12 Months (16.1.3)	0.67
Internal GPI	Reporters Without Borders (16.10.1)	0.56
Bribe in the last 12 Months (16.5.1)	Internal GPI	0.54
Internal GPI	Bribe in the last 12 Months (16.5.1)	0.54
Bribe in the last 12 Months (16.5.1)	Unsentenced Detainees (16.3.2)	0.42
Bribe in the last 12 Months (16.5.1)	Reporters Without Borders (16.10.1)	0.4
Internal GPI	Unsentenced Detainees (16.3.2)	0.39
Homicide (16.1.1)	Pretrial (16.3.2)	0.37
World Press Freedom Index (16.10.1)	Violent Crime Underreporting Rate (16.3.1)	0.37
Sexual Violence in the Past 12 Months (16.1.3)	Women in Parliament (16.7.1)	0.37
Battle Deaths (16.1.2)	Internal GPI	0.36
Internal GPI	Journalists Killed (16.10.1)	0.36
Bribe in the last 12 Months (16.5.1)	Government Budget (16.6.1)	0.36
Homicide (16.1.1)	Internal GPI	0.32
Bribe in the last 12 Months (16.5.1)	Confidence in Government (16.6.2)	0.32
Internal GPI	Slavery (16.2.2)	0.31
Journalists Killed (16.10.1)	Underreporting Rate (16.3.1)	0.31
Confidence in Government (16.6.2)	Safe Walking Alone (16.1.4)	0.26
Arms Treaty (16.4.2)	Birth Registration (16.9.1)	0.26
Birth Registration (16.9.1)	Safe Walking Alone (16.1.4)	0.25
Slavery (16.2.2)	Women in Parliament (16.7.1)	-0.25
Safe Walking Alone (16.1.4)	Unsentenced Detainees (16.3.2)	-0.32
Birth Registration (16.9.1)	Internal GPI	-0.33
Reporters Without Borders (16.10.1)	Youth Policy (16.7.2)	-0.34
Bribe in the last 12 Months (16.5.1)	Safe Walking Alone (16.1.4)	-0.35
Arms Treaty (16.4.2)	Internal GPI	-0.36
Sexual Offences Against Children (16.2.1)	Slavery (16.2.2)	-0.36
Battle Deaths (16.1.2)	Underreporting Rate (16.3.1)	-0.38
Internal GPI	Safe Walking Alone (16.1.4)	-0.4
Internal GPI	Sexual Offences Against Children (16.2.1)	-0.42
Bribe in the last 12 Months (16.5.1)	Sexual Offences Against Children (16.2.1)	-0.44
Reporters Without Borders (16.10.1)	Sexual Offences Against Children (16.2.1)	-0.45
Homicide (16.1.1)	Safe Walking Alone (16.1.4)	-0.47
Arms Treaty (16.4.2)	Reporters Without Borders (16.10.1)	-0.52
Birth Registration (16.9.1)	Sexual Violence in the Past 12 Months (16.1.3)	-0.54
Birth Registration (16.9.1)	Bribe in the last 12 Months (16.5.1)	-0.59

APPENDICES

APPENDIX A

GPI METHODOLOGY

Peace is notoriously difficult to define. The simplest way of approaching it is in terms of the harmony achieved by the absence of violence or the fear of violence, which has been described as Negative Peace. Negative Peace is a compliment to Positive Peace which is defined as the attitudes, institutions and structures which create and sustain peaceful societies.

The GPI was founded by Steve Killelea, an Australian technology entrepreneur and philanthropist. It is produced by the Institute for Economics and Peace, a global think tank dedicated to building a greater understanding of the relationship between economics, business and peace. The GPI is collated and calculated by The Economist Intelligence Unit (EIU), which has also contributed to some sections of this report, including the regional analysis and the risers and fallers.

The GPI measures a country's level of Negative Peace using three domains of peacefulness. The first domain, ongoing domestic and international conflict, investigates the extent to which countries are involved in internal and external conflicts, as well as their role and duration of involvement in conflicts.

The second domain evaluates the level of harmony or discord within a nation; ten indicators broadly assess what might be described as societal safety and security. The assertion is that low crime rates, minimal terrorist activity and violent demonstrations, harmonious relations with neighbouring countries, a stable political scene and a small proportion of the population being internally displaced or made refugees can be equated with peacefulness.

Seven further indicators are related to a country's militarisation—reflecting the link between a country's level of military build-up and access to weapons and its level of peacefulness, both domestically and internationally. Comparable data on military expenditure as a percentage of GDP and the number of armed service officers per head are gauged, as are financial contributions to UN peacekeeping missions.

THE EXPERT PANEL

An international panel of independent experts played a key role in establishing the GPI in 2007—in selecting the indicators that best assess a nation's level of peace and in assigning their weightings. The panel has overseen each edition of the GPI; this year, it included:

Professor Kevin P. Clements, chairperson

Foundation Chair of Peace and Conflict Studies and director, National Centre for Peace and Conflict Studies, University of Otago, New Zealand

Dr Sabina Alkire

Director, Oxford Poverty & Human Development Initiative (OPHI), University of Oxford, United Kingdom

Dr Ian Anthony

Research Coordinator and Director of the Programme on Arms Control, Disarmament and Non-proliferation, Director a.i., Stockholm International Peace Research Institute (SIPRI), Sweden.

Ms Isabelle Arradon

Director of Research and Deputy Director of Communications & Outreach, International Crisis Group, Belgium

Mr Nick Grono

CEO, The Freedom Fund, United Kingdom

Dr Manuela Mesa

Director, Centre for Education and Peace Research (CEIPAZ) and president, Spanish Association for Peace Research (AIPAZ), Madrid, Spain

Dr Ekaterina Stepanova

Head, Unit on Peace and Conflict Studies, Institute of the World Economy and International Relations (IMEMO), Russian Academy of Sciences, Russia

THE INDICATORS

The GPI comprises 23 indicators of the violence or fear of violence. The indicators were originally selected with the assistance of the expert panel in 2007 and have been reviewed by the expert panel on an annual basis. All scores for each indicator are normalised on a scale of 1-5, whereby qualitative indicators are banded into five groupings and quantitative ones are scored from 1-5, to the third decimal point.



ONGOING DOMESTIC AND INTERNATIONAL CONFLICT

Number and duration of internal conflicts

Uppsala Conflict Data Program (UCDP) Battle-Related Deaths Dataset, Non-State Conflict Dataset and One-sided Violence Dataset; Institute for Economics and Peace (IEP)

Number of deaths from organised conflict (external)

UCDP Armed Conflict Dataset

Number of deaths from organised conflict (internal)

International Institute for Strategic Studies (IISS) Armed Conflict Database (ACD)

Number, duration and role in external conflicts

UCDP Battle-Related Deaths Dataset; IEP

Intensity of organised internal conflict

Qualitative assessment by EIU analysts

Relations with neighbouring countries

Qualitative assessment by EIU analysts



SOCIETAL SAFETY AND SECURITY

Level of perceived criminality in society

Qualitative assessment by EIU analysts

Number of refugees and internally displaced people as a percentage of the population

Office of the High Commissioner for Refugees (UNHCR) Mid-Year Trends; Internal Displacement Monitoring Centre (IDMC)

Political instability

Qualitative assessment by EIU analysts

Political Terror Scale

Qualitative assessment of Amnesty International and US State Department yearly reports

Impact of terrorism

IEP Global Terrorism Index (GTI)

Number of homicides per 100,000 people

United Nations Office on Drugs and Crime (UNODC) Surveys on Crime Trends and the Operations of Criminal Justice Systems (CTS); EIU estimates

Level of violent crime

Qualitative assessment by EIU analysts

Likelihood of violent demonstrations

Qualitative assessment by EIU analysts

Number of jailed population per 100,000 people

World Prison Brief, International Centre for Prison Studies, University of Essex

Number of internal security officers and police per 100,000 people

UNODC; EIU estimates



MILITARISATION

Military expenditure as a percentage of GDP

The Military Balance, IISS

Number of armed services personnel per 100,000 people

The Military Balance, IISS

Volume of transfers of major conventional weapons as recipient (imports) per 100,000 people

Stockholm International Peace Research Institute (SIPRI) Arms Transfers Database

Volume of transfers of major conventional weapons as supplier (exports) per 100,000 people

SIPRI Arms Transfers Database

Financial contribution to UN peacekeeping missions

United Nations Committee on Contributions; IEP

Nuclear and heavy weapons capabilities

The Military Balance, IISS; SIPRI; UN Register of Conventional Arms; IEP

Ease of access to small arms and light weapons

Qualitative assessment by EIU analysts

METHODOLOGICAL NOTES

CHANGES TO THE INDEX

In the 2016 edition of the GPI, there were two main improvements.

The first concerns the scoring and banding of indicators. All quantitative indicators are now coded with continuous values (instead of rounding to whole or half numbers), rounded to the third decimal point. The purpose of this change is to make the index more accurate and more responsive to changes in the quantitative indicators. Additionally, the bands of a number of quantitative indicators have been revised in order to remove outliers and make indicators more responsive to changes in score. For more detail on the indicator bands, see Appendix B.

The second concerns the addition of a 163rd country. In this year's GPI Palestine has been included for the first time. The goal of IEP is to measure the level of peacefulness in as much of the world as possible. Based on the advice of the GPI Expert Panel, IEP and the EIU have worked to develop and source adequate data to include Palestine as the 163rd country or territory covered in the GPI. The geographical definition of Palestine for the purposes of the GPI includes the West Bank (including East Jerusalem) as well as the Gaza Strip.

IEP bases inclusion in the GPI on the basis that a country has a population of at least one million people or a landmass of greater than 20,000 kilometres squared. Smaller countries present unique challenges for the measurement and comparability of data on direct violence. Using these criteria, the GPI covers more than 99.7 per cent of the global population. Beyond these thresholds for the minimum size of a country, inclusion in the index is dependent upon the availability, reliability and practicality of the data for each of the GPI's 23 indicators.

IEP does not make normative or political judgements about what constitutes an independent state. Rather, the goal is to generate as comprehensive and accurate a measure of peace for as much of the world's population as possible.

The treatment of Palestine as a country-unit is substantiated by increasing international recognition of the State of Palestine:

- The State of Palestine was granted non-member observer status by the United Nations in 2012, considered a de facto recognition.
- The State is formally recognised by more than 130 other countries.
- Palestine was admitted as a member of the International Criminal Court in 2015.
- The State of Palestine administers its own bodies and institutions, such as a police force and a parliament, making it measurable from a data perspective.

WEIGHTING THE INDEX

When the GPI was launched in 2007 the advisory panel of independent experts apportioned scores based on the relative importance of each of the indicators on a scale 1-5. Two sub-component weighted indices were then calculated from the GPI group of indicators:

- 1) A measure of how at peace internally a country is;
- 2) A measure of how at peace externally a country is (its state of peace beyond its borders).

The overall composite score and index was then formulated by applying a weight of 60 percent to the measure of internal peace and 40 percent for external peace. The heavier weight applied to internal peace was agreed upon by the advisory panel, following robust debate. The decision was based on the innovative notion that a greater level of internal peace is likely to lead to, or at least correlate with, lower external conflict. The weights have been reviewed by the advisory panel prior to the compilation of each edition of the GPI.

MEASURING THE ROBUSTNESS OF THE INDEX

- Robustness is an important concept in composite index analysis. It is a measure of how often rank comparisons from a composite index are still true if the index is calculated using different weightings. For example, if the GPI is recalculated using a large number of different weighting schemes and Country A ranks higher than Country B in 60 per cent of these recalculations, the statement "Country A is more peaceful than Country B" is considered to be 60 per cent robust.
- IEP finds that the Global Peace Index (GPI) is at the same level of absolute robustness as the Human Development Index (HDI), a leading measure of development since it was first constructed by the United Nations Development Programme in 1990.
- Technically, the robustness of the GPI is measured by the fact that 70 per cent of pairwise country comparisons are independent of the weighting scheme chosen. In other words, regardless of the weights attributed to each component of the index 70 per cent of the time the pairwise comparisons between countries are the same.

The GPI is a composite index of 23 indicators weighted and combined into one overall score. The weighting scheme within any composite index represents the relative importance of each indicator to the overall aim of the measure, in the GPI's case, global peace. To fully understand the representative nature or accuracy of any measure it is necessary to understand how sensitive the results of the index are to the specific weighting scheme used. If the analysis holds true for a large subset of all possible weighting schemes then the results can be called robust. While it is expected that ranks will be sensitive to changes in the weights of any composite index, what is more

important in a practical sense is the robustness of country comparisons. One of the core aims of the GPI is to allow for Country A to be compared to Country B. This raises the question that for any two countries, how often is the first ranked more peaceful than the second across the spectrum of weights. The more times that the first country is ranked more peaceful than the second, the more confidence can be invested in the statement “Country A is more peaceful than Country B”.

To avoid the computational issue of evaluating every possible combination of 23 indicators, the robustness of pairwise country comparisons has been estimated using the three GPI domains militarisation, societal safety and security and ongoing conflict. Implementing an accepted methodology for robustness, the GPI is calculated for every weighting combination of three weights from 0 to 1 at 0.01 intervals. For computational expedience only weighting schemes that sum to one are selected, resulting in over 5100 recalculated GPI's. Applying this it is found that around 70 per cent of all pairwise country comparisons in the GPI are independent of the weighting scheme, i.e. 100 per cent robust. This is a similar level of absolute robustness as the Human Development Index.

QUALITATIVE SCORING: THE ECONOMIST INTELLIGENCE UNIT APPROACH

The EIU's Country Analysis team plays an important role in producing the GPI by scoring seven qualitative indicators and filling in data gaps on quantitative indicators when official data is missing. The EIU employs more than 100 full-time country experts and economists, supported by 650 in-country contributors. Analysts generally focus on two or three countries and, in conjunction with local contributors, develop a deep knowledge of a nation's political scene, the performance of its economy and the society in general. Scoring follows a strict process to ensure reliability, consistency and comparability:

- 1) Individual country analysts score qualitative indicators based on a scoring methodology and using a digital platform;**
- 2) Regional directors use the digital platform to check scores across the region; through the platform they can see how individual countries fare against each other and evaluate qualitative assessments behind proposed score revisions;**
- 3) Indicator scores are checked by the EIU's Custom Research team (which has responsibility for the GPI) to ensure global comparability;**
- 4) If an indicator score is found to be questionable, the Custom Research team, and the appropriate regional director and country analyst discuss and make a judgment on the score;**
- 5) Scores are assessed by the external advisory panel before finalising the GPI;**

- 6) If the expert panel finds an indicator score to be questionable, the Custom Research team, and the appropriate regional director and country analyst discuss and make a final judgment on the score, which is then discussed in turn with the advisory panel.**

Because of the large scope of the GPI, occasionally data for quantitative indicators do not extend to all nations. In this case, country analysts are asked to suggest an alternative data source or provide an estimate to fill any gap. This score is checked by Regional Directors to ensure reliability and consistency within the region, and by the Custom Research team to ensure global comparability. Again, indicators are assessed by the external advisory panel before finalisation.

TABLE 29 INDICATOR WEIGHTS

Internal Peace 60% / External Peace 40%

INTERNAL PEACE (WEIGHT 1 TO 5)

Perceptions of criminality	3
Security officers and police rate	3
Homicide rate	4
Incarceration rate	3
Access to small arms	3
Intensity of internal conflict	5
Violent demonstrations	3
Violent crime	4
Political instability	4
Political Terror	4
Weapons imports	2
Terrorism impact	2
Deaths from internal conflict	5
Internal conflicts fought	2.56

EXTERNAL PEACE (WEIGHT 1 TO 5)

Military expenditure (% GDP)	2
Armed services personnel rate	2
UN peacekeeping funding	2
Nuclear and heavy weapons capabilities	3
Weapons exports	3
Refugees and IDPs	4
Neighbouring countries relations	5
Number, duration and role in external conflicts	2.28
Deaths from external conflict	5

APPENDIX B

GPI INDICATOR SOURCES, DEFINITIONS AND SCORING CRITERIA

The information below details the sources, definitions, and scoring criteria of the 23 indicators that form the Global Peace Index. All scores for each indicator are banded or normalised on a scale of 1-5, whereby qualitative indicators are banded into five groupings and quantitative ones are either banded into ten groupings or rounded to the first decimal point. The Economist Intelligence Unit has provided imputed estimates in the rare event there are gaps in the quantitative data.

INTERNAL PEACE INDICATORS

LEVEL OF PERCEIVED CRIMINALITY IN SOCIETY

Indicator type	Qualitative
Indicator weight	3
Indicator weight (% of total index)	3.8%
Data source	EIU
Measurement period	16 March 2015 to 15 March 2016

Definition: Assessment of the level of perceived criminality in society, ranked from 1-5 (very low to very high) by the EIU's Country Analysis team. Country analysts assess this indicator on an annual basis, for the period March to March.

Scoring Criteria:

- 1 = Very low:** The majority of other citizens can be trusted; very low levels of domestic insecurity.
- 2 = Low:** An overall positive climate of trust with other citizens.
- 3 = Moderate:** Reasonable degree of trust in other citizens.
- 4 = High:** High levels of distrust in other citizens; high levels of domestic security.
- 5 = Very high:** Very high levels of distrust in other citizens; people are extremely cautious in their dealings with others; large number of gated communities, high prevalence of security guards.

NUMBER OF INTERNAL SECURITY OFFICERS AND POLICE PER 100,000 PEOPLE

Indicator type	Quantitative
Indicator weight	3
Indicator weight (% of total index)	3.8%
Data source	UNODC Survey of Crime Trends and Operations of Criminal Justice Systems, 2014
Measurement period	2013

Alternative Source: EIU. Where data is not provided, the EIU's analysts have filled them based on likely scores from the set bands of the actual data.

Definition: This indicator is sourced from the UNODC Survey of Crime Trends and Operations of Criminal Justice Systems and refers to the civil police force. Police means personnel in public agencies whose principal functions are the prevention, detection and investigation of crime and the apprehension of alleged offenders. It is distinct from national guards or local militia.

Scoring Bands

1/5	2/5	3/5	4/5	5/5
0-199.8	199.9-399.8	399.9-599.8	599.9-799.8	> 799.9

NUMBER OF HOMICIDES PER 100,000 PEOPLE

Indicator type	Quantitative
Indicator weight	4
Indicator weight (% of total index)	5%
Data source	UNODC Survey of Crime Trends and Operations of Criminal Justice Systems, 2014
Measurement period	2013

Alternative Source: EIU. Where data is not provided, the EIU's analysts have filled them based on likely scores from the set bands of the actual data.

Definition: This indicator comes from the UNODC Survey of Crime Trends and Operations of Criminal Justice Systems. Intentional homicide refers to death deliberately inflicted on a person by another person, including infanticide. The figures refer to the total number of penal code offences or their equivalent, but exclude minor road traffic and other petty offences, brought to the attention of the police or other law enforcement agencies and recorded by one of those agencies.

Scoring Bands

1/5	2/5	3/5	4/5	5/5
0-1.99	2-5.99	6-9.99	10-19.99	> 20

NUMBER OF JAILED POPULATION PER 100,000 PEOPLE

Indicator type	Quantitative
Indicator weight	3
Indicator weight (% of total index)	3.8%
Data source	International Centre for Prison Studies, University of Essex, World Prison Brief

Measurement period

Definition: Figures are from the International Centre for Prison Studies, and are compiled from a variety of sources. In almost all cases the original source is the national prison administration of the country concerned, or else the Ministry responsible for the prison administration. Prison population rates per 100,000 people are based on estimates of the national population. In order to compare prison population rates, and to estimate the number of persons held in prison in the countries for which information is not available, median rates have been used by the International Centre for Prison Studies to minimise the effect of countries with rates that are untypically high or low. Indeed, comparability can be compromised by different practice in different countries, for example with regard to pre-trial detainees and juveniles, but also psychiatrically ill offenders and offenders being detained for treatment for alcoholism and drug addiction.

Scoring Bands

1/5	2/5	3/5	4/5	5/5
0-126.405	126.406- 252.811	252.812- 379.217	379.218- 505.624	>505.625

Additional Notes: The data provided by World Prison Briefs are not annual averages but indicate the number of jailed population per 100,000 inhabitants in a particular month during the year. The year and month may differ from country to country.

EASE OF ACCESS TO SMALL ARMS AND LIGHT WEAPONS

Indicator type	Qualitative
Indicator weight	3
Indicator weight (% of total index)	3.8%
Data source	EIU
Measurement period	16 March 2015 to 15 March 2016

Definition: Assessment of the accessibility of small arms and light weapons (SALW), ranked from 1-5 (very limited access to very easy access) by the EIU's Country Analysis team. Country analysts are asked to assess this indicator on an annual basis, for the period from March to March.

Scoring Criteria:

- 1 = Very limited access:** The country has developed policy instruments and best practices, such as firearm licences, strengthening of export controls, codes of conduct, firearms or ammunition marking.
- 2 = Limited access:** The regulation implies that it is difficult, time-consuming and costly to obtain firearms; domestic firearms regulation also reduces the ease with which legal arms are diverted to illicit markets.
- 3 = Moderate access:** There are regulations and commitment to ensure controls on civilian possession of firearms, although inadequate controls are not sufficient to stem the flow of illegal weapons.
- 4 = Easy access:** There are basic regulations, but they are not effectively enforced; obtaining firearms is straightforward.
- 5 = Very easy access:** There is no regulation of civilian possession, ownership, storage, carriage and use of firearms.

INTENSITY OF ORGANISED INTERNAL CONFLICT

Indicator type	Qualitative
Indicator weight	5
Indicator weight (% of total index)	6.3%
Data source	EIU
Measurement period	16 March 2015 to 15 March 2016

Definition: Assessment of the intensity of conflicts within the country, ranked from 1-5 (no conflict to severe crisis) by the EIU's Country Analysis team. Country analysts are asked to assess this indicator on an annual basis, for the period March to March.

Scoring Criteria:

1 = No conflict.

2 = Latent conflict: Positional differences over definable values of national importance.

3 = Manifest conflict: Explicit threats of violence; imposition of economic sanctions by other countries.

4 = Crisis: A tense situation across most of the country; at least one group uses violent force in sporadic incidents.

5 = Severe crisis: Civil war; violent force is used with a certain continuity in an organised and systematic way throughout the country.

LIKELIHOOD OF VIOLENT DEMONSTRATIONS

Indicator type	Qualitative
Indicator weight	3
Indicator weight (% of total index)	3.8%
Data source	EIU
Measurement period	16 March 2015 to 15 March 2016

Definition: Assessment of the likelihood of violent demonstrations ranked from 1-5 (very low to very high) by the EIU's Country Analysis team, based on the question, "Are violent demonstrations or violent civil/labour unrest likely to pose a threat to property or the conduct of business over the next two years?" Country analysts assess this question on a quarterly basis. The score provided for March 2015 - March 2016 is the average of the scores given for each quarter.

Scoring Criteria

"Are violent demonstrations or violent civil/labour unrest likely to pose a threat to property or the conduct of business over the next two years?"

1/5	Strongly no
2/5	No
3/5	Somewhat of a problem
4/5	Yes
5/5	Strongly yes

LEVEL OF VIOLENT CRIME

Indicator type	Qualitative
Indicator weight	4
Indicator weight (% of total index)	5%
Data source	EIU
Measurement period	16 March 2015 to 15 March 2016

Definition: Assessment of the likelihood of violent crime ranked from 1 to 5 (very low to very high) by the EIU's Country Analysis team based on the question, "Is violent crime likely to pose a significant problem for government and/or business over the next two years?" Country analysts assess this question on a quarterly basis. The score provided for March 2015 - March 2016 is the average of the scores given for each quarter.

Scoring Criteria

"Is violent crime likely to pose a significant problem for government and/or business over the next two years?"

1/5	Strongly no
2/5	No
3/5	Somewhat of a problem
4/5	Yes
5/5	Strongly yes

POLITICAL INSTABILITY

Indicator type	Qualitative
Indicator weight	4
Indicator weight (% of total index)	5%
Data source	EIU
Measurement period	16 March 2015 to 15 March 2016

Definition: Assessment of political instability ranked from 0 to 100 (very low to very high instability) by the EIU's Country Analysis team, based on five questions. This indicator aggregates five other questions on social unrest, orderly transfers, opposition stance, excessive executive authority and an international tension sub-index. Country analysts assess this question on a quarterly basis. The score provided for March 2015–March 2016 is the average of the scores given for each quarter.

Specific Questions:

- What is the risk of significant social unrest during the next two years?
- How clear, established and accepted are constitutional mechanisms for the orderly transfer of power from one government to another?

- How likely is it that an opposition party or group will come to power and cause a significant deterioration in business operating conditions?
- Is excessive power concentrated or likely to be concentrated in the executive so that executive authority lacks accountability and possesses excessive discretion?
- Is there a risk that international disputes/tensions will negatively affect the economy and/or polity?

Scoring Bands

1/5	2/5	3/5	4/5	5/5
0-20.4	20.5-40.4	40.5-60.4	60.5-80.4	80.5-100

POLITICAL TERROR SCALE

Indicator type	Qualitative
Indicator weight	4
Indicator weight (% of total index)	5%
Data source	Gibney, M., Cornett, L. & Wood, R. (2011): Political Terror Scale 1976-2014
Measurement period	2014

Definition: The Political Terror Scale (PTS) measures levels of political violence and terror that a country experiences in a given year based on a 5-level “terror scale” originally developed by Freedom House. The data used in compiling this index comes from two different sources: the yearly country reports of Amnesty International and the US Department of State’s Country Reports on Human Rights Practices. The average of the two scores is taken.

Scoring Criteria:

- 1 = Countries under a secure rule of law, people are not imprisoned for their view, and torture is rare or exceptional. Political murders are extremely rare.
- 2 = There is a limited amount of imprisonment for nonviolent political activity. However, few persons are affected, torture and beatings are exceptional. Political murder is rare.
- 3 = There is extensive political imprisonment, or a recent history of such imprisonment. Execution or other political murders and brutality may be common. Unlimited detention, with or without a trial, for political views is accepted.
- 4 = Civil and political rights violations have expanded to large numbers of the population. Murders, disappearances, and torture are a common part of life. In spite of its generality, on this level terror affects those who interest themselves in politics or ideas.
- 5 = Terror has expanded to the whole population. The leaders of these societies place no limits on the means or thoroughness with which they pursue personal or ideological goals.

VOLUME OF TRANSFERS OF MAJOR CONVENTIONAL WEAPONS, AS RECIPIENT (IMPORTS) PER 100,000 PEOPLE

Indicator type	Quantitative
Indicator weight	2
Indicator weight (% of total index)	2.5%
Data source	SIPRI Arms Transfers Database; EIU
Measurement period	2010-2014

Definition: Measures the total volume of major conventional weapons imported by a country between 2010 and 2014, divided by the average population in this time period at the 100,000 people level (population data supplied by the EIU). The SIPRI Arms Transfers Database covers all international sales and gifts of major conventional weapons and the technology necessary for their production. The transfer equipment or technology is from one country, rebel force or international organisation to another country, rebel force or international organisation. Major conventional weapons include: aircraft, armoured vehicles, artillery, radar systems, missiles, ships, engines.

Scoring Bands

1/5	2/5	3/5	4/5	5/5
0-7.233	7.234-14.468	14.469-21.702	21.703-28.936	>28.937

IMPACT OF TERRORISM

Indicator type	Quantitative
Indicator weight	2
Indicator weight (% of total index)	2.5%
Data source	IEP Global Terrorism Index (GTI)
Measurement period	1 Jan 2004 to 31 March 2016

Definition: Terrorist incidents are defined as “intentional acts of violence or threat of violence by a non-state actor.” This means an incident has to meet three criteria in order for it to be counted as a terrorist act:

- The incident must be intentional – the result of a conscious calculation on the part of a perpetrator.
- The incident must entail some level of violence or threat of violence, including property violence as well as violence against people.
- The perpetrators of the incidents must be sub-national actors. This database does not include acts of state terrorism.

For all incidents listed, at least two of the following three criteria must be present:

1. The act must be aimed at attaining a political, economic, religious or social goal.
2. There must be evidence of an intention to coerce, intimidate or convey some other message to a larger audience (or audiences) than the immediate victims.
3. The action must be outside the context of legitimate warfare activities.

Methodology: Using the comprehensive, event-based Global Terrorism Database, the GTI combines four variables to develop a composite score: the number of terrorist incidents in a given year, the total number of fatalities in a given year, the total number of injuries caused in a given year and the approximate level of property damage in a given year. The composite score captures the direct effects of terrorist-related violence, in terms of its physical effect, but also attempts to reflect the residual effects of terrorism in terms of emotional wounds and fear by attributing a weighted average to the damage inflicted in previous years. As of the date of publication, the Global Terrorism Database only logs events up to 31 Dec 2013. To assess the impact of terrorism between this date and 15 March 2015 GPI cutoff, IEP uses data from publicly available third party sources to impute terrorist activity in that period.

Scoring Bands

1/5	2/5	3/5	4/5	5/5
0-13.479	13.48-181.699	181.7-2,449.309	2,449.31-33,015.949	>33,015.95

NUMBER OF DEATHS FROM ORGANISED CONFLICT (INTERNAL)

Indicator type	Quantitative
Indicator weight	5
Indicator weight (% of total index)	6.3%
Data source	International Institute for Strategic Studies (IISS) Armed Conflict Database (ACD)
Measurement period	2014-2015

Alternative Source: EIU. When no data was provided by the IISS ACD, then EIU analysts have scored the figures available for 2014 and 2015 according to the set bands of the actual data.

Definition: This indicator uses the UCDP's definition of conflict. UCDP defines conflict as: "a contested incompatibility that concerns government and/or territory where the use of armed force between two parties, of which at least one is the government of a state, results in at least 25 battle-related deaths in a year." Statistics are compiled from the most recent edition of the IISS ACD, which has the following definition of armed conflict-related fatalities: 'Fatality statistics relate to military and civilian lives lost as a direct result of an armed conflict.'

The figures relate to the country which is the main area of conflict. For some conflicts no reliable statistics are available. Estimates of war fatalities vary according to source, sometimes by a wide margin. In compiling data on fatalities, the IISS has used its best estimates and takes full responsibility for these figures. Some overall fatality figures have been revised in light of new information. Changes in fatality figures may therefore occur as a result of such revisions as well as because of increased fatalities. Fatality figures for terrorism may include deaths inflicted by the government forces in counter-terrorism operations.

Scoring Bands

1/5	2/5	3/5	4/5	5/5
0-23 deaths	24-998 deaths	999-4,998 deaths	4,999-9,998 deaths	>9,999 deaths

NUMBER AND DURATION OF INTERNAL CONFLICTS

Indicator type	Quantitative
Indicator weight	2.56
Indicator weight (% of total index)	3.2%
Data sources	IEP; UCDP Battle-Related Deaths Dataset, Non-State Conflict Dataset and One-sided Violence Dataset

Measurement period

2010-2014

Definition: This indicator measures the number and duration of conflicts that occur within a specific country's legal boundaries. Information for this indicator is sourced from three datasets from Uppsala Conflict Data Program (UCDP): the Battle-Related Deaths Dataset, Non-State Conflict Dataset and One-sided Violence Dataset. The score for a country is determined by adding the scores for all individual conflicts which have occurred within that country's legal boundaries over the last five years.

Each individual conflict score is based on the following factors:

Number:

- Number of interstate armed conflicts, internal armed conflict (civil conflicts), internationalised internal armed conflicts, one-sided conflict and non-state conflict located within a country's legal boundaries.
- If a conflict is a war (1,000+ battle-related deaths) it receives a score of one; if it is an armed conflict (25-999 battle-related deaths) it receives a score of 0.25.

Duration:

- A score is assigned based on the number of years out of the last five that conflict has occurred. For example, if a conflict last occurred five years ago that conflict will receive a score of one out of five.

The cumulative conflict scores are then added and banded to establish a country's score. This indicator is two years lagging due to when the UCDP data is released.

Scoring Bands

1/5	2/5	3/5	4/5	5/5
No internal conflict score up to 4.75	Combined conflict score up to 9.5	Combined conflict score up to 14.25	A combined conflict score of 19 or above. This shows very high levels of internal conflict.	

EXTERNAL PEACE INDICATORS

MILITARY EXPENDITURE AS A PERCENTAGE OF GDP

Indicator type	Quantitative
Indicator weight	2
Indicator weight (% of total index)	2.8%
Data source	International Institute for Strategic Studies, The Military Balance 2016
Measurement period	2014–2015

Alternative Source: When no data was provided, several alternative sources were used: National Public Expenditure Accounts, SIPRI information and the Military Balance 2015. Alternative data are from 2007 to 2015, depending upon data availability.

Definition: Cash outlays of central or federal government to meet the costs of national armed forces—including strategic, land, naval, air, command, administration and support forces as well as paramilitary forces, customs forces and border guards if these are trained and equipped as a military force. Published EIU data on nominal GDP (or the World Bank when unavailable) was used to arrive at the value of military expenditure as a percentage of GDP.

Scoring Criteria: This indicator is scored using a min-max normalisation. Applying this method, a country's score is based on the distance of its military expenditure as a share of GDP from the benchmarks of 0% (for a score of 1) and 12.97% or above (for a score of 5). The bands, while linear, approximately conform as follows:

1/5	2/5	3/5	4/5	5/5
0-2.092	2.093- 4.184	4.185-6.277	6.278-8.37	>8.371

NUMBER OF ARMED SERVICES PERSONNEL PER 100,000 PEOPLE

Indicator type	Quantitative
Indicator weight	2
Indicator weight (% of total index)	2.8%
Data source	International Institute for Strategic Studies, The Military Balance 2016

Measurement period

2015

Alternative Source: World Bank population data used if unavailable from the EIU.

Definition: Active armed services personnel comprise all service men and women on full-time duty in the army, navy, air force and joint forces (including conscripts and long-term assignments from the reserves). Population data provided by the EIU.

Scoring Bands

1/5	2/5	3/5	4/5	5/5
0-657.744	657.745- 1,315.489	1,315.49- 1,973.234	1,973.235- 2,630.98	>2,630.981

Additional Notes: The Israeli reservist force is used to calculate Israel's number of armed services personnel.

FINANCIAL CONTRIBUTION TO UN PEACEKEEPING MISSIONS

Indicator type	Quantitative
Indicator weight	2
Indicator weight (% of total index)	2.8%
Data source	IEP; United Nations Committee on Contributions

Measurement period

2011–2014

Methodology: The UNFU indicator measures whether UN member countries meet their UN peacekeeping funding commitments. Although countries may fund other programs in development or peacebuilding, the records on peacekeeping are easy to obtain and understand and provide an instructive measure of a country's commitment to peace. The indicator calculates the percentage of countries' "outstanding payments versus their annual assessment to the budget of the current peacekeeping missions" over an average of three years. This ratio is derived from data provided by the United Nations Committee on Contributions Status reports. The indicator is compiled as follows:

1. The status of contributions by UN member states is obtained.
2. For the relevant peacekeeping missions, the assessments (for that year only) and the collections (for that year only) are recorded. From this, the outstanding amount is calculated for that year.
3. The ratio of outstanding payments to assessments is calculated. By doing so a score between 0 and 1 is obtained. Zero indicates no money is owed; a country has met their funding commitments. A score of 1 indicates that a country has not paid any of their assessed contributions. Given that the scores already fall between 0 and 1, they are easily banded into a score between 1 and 5.

The final banded score is a weighted sum of the current year and the previous two years. The weightings are 0.5 for the current year, 0.3 for the previous year and 0.2 for two years prior. Hence it is a three year weighted average.

5. Outstanding payments from previous years and credits are not included. The scoring is linear to one decimal place.

Scoring Criteria

1/5	0–25% of stated contributions owed
2/5	26–50% of stated contributions owed
3/5	51–75% of stated contributions owed
4/5	75–99% of stated contributions owed
5/5	100% of stated contributions owed (no contributions made in past three years)

Additional Notes: All United Nations member states share the costs of United Nations peacekeeping operations. The General Assembly apportions these expenses based on a special scale of assessments applicable to peacekeeping. This scale takes into account the relative economic wealth of member states, with the permanent members of the Security Council required to pay a larger share because of their special responsibility for the maintenance of international peace and security. Due to delays in the release of new data, the 2016 indicator scores take into account a weighted average from 2011 to 2014.

NUCLEAR AND HEAVY WEAPONS CAPABILITIES

Indicator type	Quantitative
Indicator weight	3
Indicator weight (% of total index)	4.2%
Data source	IEP; SIPRI; IISS The Military Balance; United Nations Register of Conventional Arms
Measurement period	2014

Methodology: This indicator is based on a categorised system for rating the destructive capability of a country's stock of heavy weapons. Holdings are those of government forces and do not include holdings of armed opposition groups. Heavy weapons numbers were determined using a combination of the International Institute for Strategic Studies, The Military Balance and the United Nations Register of Conventional Arms.

There are five categories of weapons, each of which receive a certain number of weighted points. The five weapons categories are weighted as follows:

1. Armoured vehicle and artillery pieces = 1 point
2. Tank = 5 points
3. Combat aircraft and combat helicopter = 20 points
4. Warship = 100 points

5. Aircraft carrier and nuclear submarine = 1000 points

Countries with nuclear capabilities automatically receive the maximum score of five. Other scores are expressed to the second decimal point, adopting a min-max normalisation that sets the max at two standard deviations above the average raw score. Nuclear-weapon equipped states are determined by the SIPRI World Nuclear Forces chapter in the SIPRI Yearbook, as follows:

1/5	Nil–18,185
2/5	18,185–36,368
3/5	36,368–54,553
4/5	54,553–72,737
5/5	States with nuclear capability receive a 5, or states with heavy weapons capability of 72,738 or in the top 2% of heavy weapons receive a 5.

VOLUME OF TRANSFERS OF MAJOR CONVENTIONAL WEAPONS AS SUPPLIER (EXPORTS) PER 100,000 PEOPLE

Indicator type	Quantitative
Indicator weight	3
Indicator weight (% of total index)	4.2%
Data source	SIPRI Arms Transfers Database
Measurement period	2010–2014

Definition: Measures the total volume of major conventional weapons exported by a country between 2010 and 2014 divided by the average population during this time period (population data supplied by the EIU). The SIPRI Arms Transfers Database covers all international sales and gifts of major conventional weapons and the technology necessary for the production of them. The transfer equipment or technology is from one country, rebel force or international organisation to another country, rebel force or international organisation. Major conventional weapons include: aircraft, armoured vehicles, artillery, radar systems, missiles, ships and engines.

Scoring Bands

1/5	2/5	3/5	4/5	5/5
0–3.681	3.682– 7.364	7.365– 11.046	11.047– 14.729	>14.73

NUMBER OF REFUGEES AND INTERNALLY DISPLACED PEOPLE AS A PERCENTAGE OF THE POPULATION

Indicator type	Quantitative
Indicator weight	4
Indicator weight (% of total index)	5.7%
Data source	UNHCR Mid-Year Trends 2015; International Displacement Monitoring Centre (IDMC), 2015
Measurement period	2015

Definition: Refugee population by country or territory of origin plus the number of a country's internally displaced people (IDPs), as a percentage of the country's total population.

Scoring Bands

1/5	2/5	3/5	4/5	5/5
0-3.034	3.035- 6.069	6.07-9.104	9.105- 12.139	>12.14

RELATIONS WITH NEIGHBOURING COUNTRIES

Indicator type	Qualitative
Indicator weight	5
Indicator weight (% of total index)	7.1%
Data source	EIU
Measurement period	16 March 2015 to 15 March 2016

Definition: Assessment of the intensity of contentiousness of neighbours, ranked from 1-5 (peaceful to very aggressive) by the EIU's Country Analysis team. Country analysts are asked to assess this indicator on an annual basis, for the period March to March.

Scoring Criteria

- 1 = **Peaceful:** None of the neighbours has attacked the country since 1950.
- 2 = **Low:** The relationship with neighbours is generally good, but aggressiveness is manifest in politicians' speeches or in protectionist measures.
- 3 = **Moderate:** There are serious tensions and consequent economic and diplomatic restrictions from other countries.
- 4 = **Aggressive:** Open conflicts with violence and protests.
- 5 = **Very aggressive:** Frequent invasions by neighbouring countries.

NUMBER, DURATION AND ROLE IN EXTERNAL CONFLICTS

Indicator type	Quantitative
Indicator weight	2.28
Indicator weight (% of total index)	3.2%
Data source	IEP; UCDP Battle-Related Deaths Dataset
Measurement period	2010-2014

Definition: This indicator measures the number and duration of extraterritorial conflicts a country is involved in. Information for this indicator is sourced from the UCDP Battle-Related Deaths Dataset. The score for a country is determined by adding all individual conflict scores where that country is involved as an actor in a conflict outside its legal boundaries. Conflicts are not counted against a country if they have already been counted against that country in the number and duration of internal conflicts indicator.

Each individual conflict score is based on the following factors:

Number:

- Number of internationalised internal armed conflicts and interstate armed conflicts.
- If a conflict is a war (1,000+ battle related deaths) it receives a score of one; if it is an armed conflict (25-999 battle related deaths) it receives a score of 0.25.

Duration:

- A score is assigned based on the number of years out of the last five that conflict has occurred. For example, if a conflict last occurred five years ago that conflict will receive a score of one out of five.

Role:

- If the country is a primary party to the conflict, that conflict receives a score of one; if it is a secondary party (supporting the primary party), that conflict receives a score of 0.25.
- If a country is a party to a force covered by a relevant United Nations Security Council Resolution, then the entire conflict score is multiplied by a quarter; if not, it receives a full score.

The different conflict scores are then added and banded to establish a country's score. This indicator is two years lagging due to when the UCDP data is released.

Scoring Bands

1/5	2/5	3/5	4/5	5/5
No external conflict	Combined conflict score of up to 1.5	Combined conflict score of up to 3	Combined conflict score of up to 4.5	A combined conflict score of 6 or above. This shows very high levels of external conflict.

NUMBER OF DEATHS FROM ORGANISED CONFLICT (EXTERNAL)

Indicator type	Quantitative
Indicator weight	5
Indicator weight (% of total index)	7.1%
Data source	UCDP Armed Conflict Dataset
Measurement period	2014-2015

Alternate Source: When no data was provided, several alternative sources have been used: International Institute for Strategic Studies (IISS) Armed Conflict Database; the Iraq Coalition Casualty Count, and the EIU.

Definition: This indicator uses the UCDP's definition of conflict as "*a contested incompatibility that concerns government and/or territory where the use of armed force between two parties, of which at least one is the government of a state, results in at least 25 battle-related deaths in a year*".

Scoring Bands

1/5	2/5	3/5	4/5	5/5
0–23 deaths	24–998 deaths	999–4,998 deaths	4,999–9,998 deaths	> 9,999 deaths

APPENDIX C

VIOLENCE CONTAINMENT COSTS BY COUNTRY

TABLE 6.1 VIOLENCE CONTAINMENT COSTS BY COUNTRY, TOTAL IN MILLIONS OF 2014 PPP, PER CAPITA IN 2014 PPP AND AS A PERCENTAGE OF GDP

VIOLENCE CONTAINMENT RANK BY % OF GDP	COUNTRY	TOTAL COST OF VIOLENCE CONTAINMENT (MILLIONS, 2014 PPP)	PER CAPITA VIOLENCE CONTAINMENT COST (2014 PPP)	VIOLENCE CONTAINMENT COST AS PERCENTAGE OF GDP	VIOLENCE CONTAINMENT RANK BY % OF GDP	COUNTRY	TOTAL COST OF VIOLENCE CONTAINMENT (MILLIONS, 2014 PPP)	PER CAPITA VIOLENCE CONTAINMENT COST (2014 PPP)	VIOLENCE CONTAINMENT COST AS PERCENTAGE OF GDP
1	Syria	23,593	1,065	54%	36	Pakistan	124,922	675	13%
2	Iraq	206,444	5,930	54%	37	Georgia	3,522	782	12%
3	Afghanistan	27,050	855	45%	38	Guyana	692	907	12%
4	Venezuela	79,613	2,594	43%	39	The Gambia	318	165	12%
5	South Sudan	8,213	689	35%	40	Cuba	28,395	2,495	12%
6	Honduras	13,702	1,721	34%	41	Algeria	54,372	1,397	12%
7	Colombia	139,481	2,919	30%	42	United States	2,130,344	6,681	12%
8	Central African Republic	781	163	29%	43	Chad	2,918	215	12%
9	North Korea	4,949	198	28%	44	Cote d'Ivoire	7,503	339	11%
10	Lesotho	1,455	690	28%	45	Democratic Republic of the Congo	7,307	98	11%
11	Libya	17,766	2,839	25%	46	Nigeria	104,378	588	11%
12	Mauritania	2,999	756	21%	47	Zimbabwe	2,903	190	11%
13	Somalia	1,170	111	20%	48	Azerbaijan	15,181	1,592	11%
14	Saudi Arabia	274,470	8,886	20%	49	Gabon	2,506	1,485	10%
15	Oman	24,218	5,717	20%	50	Turkey	129,104	1,700	10%
16	South Africa	124,336	2,302	19%	51	Israel	25,897	3,152	10%
17	El Salvador	9,950	1,629	19%	52	Guinea-Bissau	240	134	10%
18	Yemen	17,867	682	19%	53	Uganda	5,840	155	9%
19	Botswana	5,512	2,483	19%	54	Angola	13,186	544	9%
20	Cyprus	4,055	3,515	18%	55	Serbia	7,057	990	9%
21	Sudan	33,413	849	18%	56	Iran	117,695	1,506	9%
22	Jamaica	4,315	1,586	18%	57	Nicaragua	2,869	477	9%
23	Ukraine	44,430	979	18%	58	Ecuador	16,362	1,029	9%
24	Bahrain	9,617	7,061	17%	59	Panama	7,582	1,961	9%
25	Guatemala	19,591	1,223	15%	60	Burundi	718	66	9%
26	Mali	3,694	216	15%	61	Kuwait	18,470	4,921	9%
27	Namibia	3,466	1,443	15%	62	Eritrea	979	192	9%
28	Mexico	272,924	2,177	14%	63	Egypt	83,051	927	9%
29	Russia	342,665	2,383	14%	64	Mongolia	3,124	1,074	9%
30	Palestine	2,673	622	14%	65	India	679,803	525	9%
31	Trinidad and Tobago	5,692	4,202	14%	66	Bolivia	6,085	576	9%
32	Brazil	338,075	1,641	14%	67	Myanmar	19,396	363	8%
33	Dominican Republic	19,328	1,857	13%	68	Montenegro	652	1,048	8%
34	Swaziland	1,372	1,081	13%	69	Philippines	60,979	615	8%
35	Republic of the Congo	2,233	496	13%					

VIOLENCE CONTAINMENT RANK BY % OF GDP	COUNTRY	TOTAL COST OF VIOLENCE CONTAINMENT (MILLIONS, 2014 PPP)	PER CAPITA VIOLENCE CONTAINMENT COST (2014 PPP)	VIOLENCE CONTAINMENT COST AS A PERCENTAGE OF GDP
70	Uzbekistan	14,549	473	8%
71	Benin	1,389	131	8%
72	Lebanon	7,476	1,644	8%
73	Macedonia	1,870	901	8%
74	Jordan	6,491	983	8%
75	Togo	708	100	8%
76	Tanzania	9,153	177	7%
77	Bulgaria	7,327	1,014	7%
78	Cambodia	3,874	253	7%
79	Peru	24,017	775	7%
80	Moldova	1,002	282	7%
81	Armenia	1,602	533	7%
82	Bosnia and Herzegovina	2,312	606	7%
83	Thailand	69,940	1,033	7%
84	Lithuania	4,818	1,645	7%
85	Sri Lanka	16,467	798	7%
86	Viet Nam	38,425	424	7%
87	Haiti	1,295	122	7%
88	Albania	1,829	632	7%
89	Rwanda	1,403	124	7%
90	Tunisia	8,181	744	7%
91	Morocco	16,659	491	7%
92	Paraguay	3,735	570	7%
93	Qatar	18,239	8,397	7%
94	Zambia	3,598	229	6%
95	Laos	2,415	361	6%
96	Nepal	4,676	166	6%
97	Mauritius	1,384	1,098	6%
98	Senegal	1,962	134	6%
99	Ethiopia	10,554	109	6%
100	Kosovo	903	496	6%
101	Estonia	1,948	1,483	6%
102	Turkmenistan	4,754	896	6%
103	Kenya	8,573	191	6%
104	Kazakhstan	23,365	1,351	6%
105	Djibouti	191	218	6%
106	Hungary	12,506	1,268	6%
107	Niger	939	49	6%
108	Greece	13,848	1,264	6%
109	Costa Rica	4,370	918	6%
110	United Arab Emirates	29,806	3,280	6%
111	Belarus	7,953	840	6%
112	United Kingdom	139,886	2,168	6%
113	Romania	19,071	958	6%
114	South Korea	95,630	1,897	6%
115	Argentina	32,123	747	6%
116	Uruguay	3,793	1,109	6%
117	Burkina Faso	1,453	83	6%
118	Latvia	2,237	1,124	6%

VIOLENCE CONTAINMENT RANK BY % OF GDP	COUNTRY	TOTAL COST OF VIOLENCE CONTAINMENT (MILLIONS, 2014 PPP)	PER CAPITA VIOLENCE CONTAINMENT COST (2014 PPP)	VIOLENCE CONTAINMENT COST AS A PERCENTAGE OF GDP
119	Poland	45,781	1,205	6%
120	Croatia	4,228	998	5%
121	Portugal	13,572	1,305	5%
122	Liberia	194	44	5%
123	Belgium	21,782	1,940	5%
124	France	114,597	1,731	5%
125	Tajikistan	1,008	122	5%
126	Chile	18,991	1,069	5%
127	Bhutan	343	448	5%
128	Sweden	19,523	2,015	5%
129	Guinea	764	62	5%
130	Taiwan	25,751	1,099	5%
131	Slovakia	6,411	1,183	5%
132	Germany	159,833	1,976	5%
133	Australia	43,108	1,835	5%
134	Kyrgyz Republic	903	155	5%
135	Sierra Leone	523	83	5%
136	Czech Republic	13,577	1,292	5%
137	Singapore	19,776	3,616	5%
138	Italy	82,361	1,343	5%
139	Finland	8,518	1,559	5%
140	Netherlands	32,034	1,901	5%
141	Ghana	4,714	176	4%
142	Malaysia	30,285	1,013	4%
143	Equatorial Guinea	767	935	4%
144	Cameroon	2,543	112	4%
145	New Zealand	5,719	1,268	4%
146	Spain	55,165	1,189	4%
147	Slovenia	2,021	980	4%
148	Bangladesh	21,815	137	4%
149	Papua New Guinea	835	112	4%
150	Timor-Leste	293	242	4%
151	China	700,632	514	4%
152	Malawi	678	41	3%
153	Ireland	6,625	1,436	3%
154	Norway	8,514	1,658	3%
155	Denmark	6,665	1,182	3%
156	Japan	121,616	957	3%
157	Madagascar	885	38	3%
158	Switzerland	13,184	1,610	3%
159	Mozambique	914	34	3%
160	Austria	8,772	1,028	3%
161	Iceland	334	1,021	2%
162	Canada	32,431	913	2%
163	Indonesia	52,275	205	2%

APPENDIX D

2016 GPI DOMAIN SCORES

TABLE 6.2 ONGOING DOMESTIC AND INTERNATIONAL CONFLICT DOMAIN, MOST PEACEFUL TO LEAST



COUNTRY	SCORE	COUNTRY	SCORE	COUNTRY	SCORE	COUNTRY	SCORE	COUNTRY	SCORE
Botswana	1	United Kingdom	1.235	El Salvador	1.465	Bangladesh	1.670	Iran	2.267
Switzerland	1	Albania	1.282	Cambodia	1.469	Greece	1.685	Burundi	2.280
Chile	1	Croatia	1.282	Ghana	1.475	United States of America	1.686	Armenia	2.325
Mauritius	1	Ireland	1.282	Sierra Leone	1.475	Mauritania	1.700	Azerbaijan	2.356
Uruguay	1	Mongolia	1.282	Bosnia and Herzegovina	1.484	Jordan	1.752	Mexico	2.418
Brazil	1.030	Poland	1.291	Hungary	1.484	Cote d'Ivoire	1.789	Israel	2.429
Singapore	1.069	Angola	1.403	Lithuania	1.484	Uganda	1.800	Egypt	2.468
Austria	1.081	Argentina	1.403	Latvia	1.484	Belarus	1.805	Ethiopia	2.481
Bulgaria	1.081	Bolivia	1.403	Montenegro	1.484	Cuba	1.805	Myanmar	2.482
Spain	1.081	Bhutan	1.403	Slovakia	1.484	Eritrea	1.805	Kenya	2.497
Iceland	1.081	Dominican Republic	1.403	Slovenia	1.484	The Gambia	1.805	Mali	2.502
New Zealand	1.081	Equatorial Guinea	1.403	Guinea	1.498	Morocco	1.805	North Korea	2.610
Portugal	1.081	Guyana	1.403	Indonesia	1.506	Moldova	1.805	Turkey	2.636
Romania	1.093	Japan	1.403	Estonia	1.520	Venezuela	1.805	Russia	2.639
Malaysia	1.111	Kuwait	1.403	United Arab Emirates	1.531	Zimbabwe	1.805	Philippines	2.664
Finland	1.117	Lesotho	1.403	Republic of the Congo	1.604	Kosovo	1.810	Lebanon	2.740
Italy	1.117	Madagascar	1.403	Cyprus	1.604	Uzbekistan	1.832	Libya	2.984
Norway	1.117	Malawi	1.403	Ecuador	1.604	Senegal	1.871	Palestine	3.018
Sweden	1.117	Nicaragua	1.403	Gabon	1.604	South Korea	1.886	India	3.045
Czech Republic	1.125	Oman	1.403	Haiti	1.604	Macedonia (FYR)	1.886	Nigeria	3.094
Germany	1.126	Qatar	1.403	Laos	1.604	Georgia	1.895	Yemen	3.125
Denmark	1.129	Swaziland	1.403	Sri Lanka	1.604	China	2.004	Iraq	3.188
Australia	1.137	Timor-Leste	1.403	Paraguay	1.604	Rwanda	2.029	Democratic Republic of the Congo	3.191
Netherlands	1.140	Tanzania	1.403	Serbia	1.604	Algeria	2.043	Ukraine	3.272
Canada	1.149	Vietnam	1.403	Tunisia	1.604	Niger	2.043	Sudan	3.384
Belgium	1.165	Peru	1.432	Taiwan	1.604	Saudi Arabia	2.054	Central African Republic	3.402
France	1.191	Papua New Guinea	1.432	South Africa	1.604	Chad	2.056	Somalia	3.538
Costa Rica	1.201	Benin	1.439	Guatemala	1.634	Kyrgyz Republic	2.094	Afghanistan	3.603
Jamaica	1.201	Burkina Faso	1.439	Mozambique	1.634	Bahrain	2.095	Pakistan	3.617
Namibia	1.201	Liberia	1.439	Kazakhstan	1.635	Thailand	2.121	South Sudan	3.732
Panama	1.201	Nepal	1.439	Turkmenistan	1.635	Cameroon	2.181	Syria	3.827
Trinidad and Tobago	1.201	Togo	1.439	Guinea-Bissau	1.640	Colombia	2.239		
Zambia	1.201	Honduras	1.462	Djibouti	1.669	Tajikistan	2.239		

TABLE 6.3 SOCIETAL SAFETY AND SECURITY DOMAIN, MOST PEACEFUL TO LEAST

COUNTRY	SCORE	COUNTRY	SCORE	COUNTRY	SCORE	COUNTRY	SCORE
Iceland	1.248	Sierra Leone	2.134	Tajikistan	2.517	Jamaica	2.932
Switzerland	1.294	Oman	2.140	Algeria	2.531	Cote d'Ivoire	2.936
Denmark	1.302	Italy	2.164	China	2.536	Philippines	2.949
Norway	1.313	Kuwait	2.167	Cuba	2.538	Thailand	2.965
Sweden	1.339	Laos	2.167	Sri Lanka	2.552	Burundi	2.967
Japan	1.347	Indonesia	2.170	Tanzania	2.555	Mauritania	2.967
Austria	1.386	Malawi	2.171	Mozambique	2.557	Guyana	2.987
Slovenia	1.415	Costa Rica	2.171	Ethiopia	2.558	Turkey	2.992
Finland	1.424	Madagascar	2.200	Paraguay	2.574	Cameroon	3.000
New Zealand	1.449	Vietnam	2.224	Ecuador	2.581	Palestine	3.025
Canada	1.472	Malaysia	2.260	Argentina	2.606	Chad	3.066
Netherlands	1.528	Israel	2.261	Azerbaijan	2.616	North Korea	3.109
Germany	1.571	Armenia	2.265	Bolivia	2.617	Brazil	3.115
Bhutan	1.571	Uruguay	2.331	Nepal	2.619	Guatemala	3.131
Portugal	1.573	Greece	2.333	Bangladesh	2.622	El Salvador	3.133
Australia	1.589	Georgia	2.340	Kyrgyz Republic	2.624	Lebanon	3.152
Singapore	1.603	Montenegro	2.341	Uzbekistan	2.628	Honduras	3.169
Ireland	1.614	Zambia	2.342	Nicaragua	2.637	South Africa	3.225
Czech Republic	1.639	Senegal	2.355	Belarus	2.648	Pakistan	3.226
South Korea	1.718	Macedonia (FYR)	2.360	Burkina Faso	2.663	Eritrea	3.235
Poland	1.747	Morocco	2.384	Uganda	2.670	Mexico	3.239
Slovakia	1.747	Mongolia	2.393	The Gambia	2.671	Russia	3.308
Hungary	1.794	Timor-Leste	2.394	Haiti	2.716	Ukraine	3.384
Qatar	1.818	Albania	2.398	Cambodia	2.730	Nigeria	3.449
Belgium	1.852	Cyprus	2.404	Niger	2.737	Venezuela	3.555
Spain	1.852	Jordan	2.406	Guinea	2.762	Colombia	3.588
Croatia	1.863	Togo	2.415	Turkmenistan	2.763	Libya	3.668
United Kingdom	1.868	Equatorial Guinea	2.416	Iran	2.786	Sudan	3.714
France	1.894	Bosnia and Herzegovina	2.430	Peru	2.786	Democratic Republic of the Congo	3.809
Taiwan	1.896	Lesotho	2.430	Angola	2.792	Yemen	3.992
Romania	1.933	Moldova	2.433	Swaziland	2.819	Somalia	4.071
United States of America	2.016	India	2.450	Mali	2.831	Central African Republic	4.118
Latvia	2.019	Tunisia	2.452	Djibouti	2.840	Afghanistan	4.136
Estonia	2.034	Namibia	2.470	Rwanda	2.841	South Sudan	4.241
Mauritius	2.044	Saudi Arabia	2.470	Egypt	2.849	Syria	4.244
Serbia	2.094	Benin	2.475	Dominican Republic	2.867	Iraq	4.333
Ghana	2.095	Liberia	2.486	Bahrain	2.880		
Bulgaria	2.099	Kosovo	2.487	Guinea-Bissau	2.904		
Lithuania	2.112	Kazakhstan	2.492	Papua New Guinea	2.905		
Chile	2.114	Panama	2.493	Republic of the Congo	2.905		
United Arab Emirates	2.124	Myanmar	2.505	Zimbabwe	2.908		
Botswana	2.126	Gabon	2.512	Trinidad and Tobago	2.915		
				Kenya	2.918		

TABLE 6.4 MILITARISATION DOMAIN, MOST PEACEFUL TO LEAST

COUNTRY	SCORE	COUNTRY	SCORE	COUNTRY	SCORE	COUNTRY	SCORE
Hungary	1.130	Ecuador	1.642	Eritrea	1.892	Greece	2.083
Czech Republic	1.176	Montenegro	1.648	Rwanda	1.894	Lebanon	2.091
Iceland	1.264	Bulgaria	1.649	Finland	1.895	Singapore	2.098
Bhutan	1.272	Philippines	1.653	Spain	1.896	Algeria	2.098
Slovenia	1.285	Timor-Leste	1.654	Burkina Faso	1.902	Netherlands	2.132
New Zealand	1.285	Peru	1.675	Dominican Republic	1.905	Turkey	2.148
Denmark	1.307	Serbia	1.675	Equatorial Guinea	1.915	Jordan	2.149
Malaysia	1.311	Uruguay	1.683	Kuwait	1.935	Brazil	2.156
Moldova	1.312	Guatemala	1.684	Bolivia	1.935	Sweden	2.172
Latvia	1.329	Botswana	1.689	Cote d'Ivoire	1.937	Cambodia	2.172
Ireland	1.347	Mexico	1.690	Liberia	1.939	Sri Lanka	2.174
Portugal	1.358	Sierra Leone	1.701	Colombia	1.939	United Arab Emirates	2.191
Austria	1.369	Laos	1.701	Romania	1.939	Somalia	2.242
Lithuania	1.389	Chile	1.701	Macedonia (FYR)	1.940	Palestine	2.252
Mozambique	1.427	Swaziland	1.703	Armenia	1.963	Djibouti	2.261
Indonesia	1.436	Cyprus	1.711	Benin	1.965	Venezuela	2.271
Japan	1.440	Nigeria	1.712	Tajikistan	1.967	South Sudan	2.287
Tanzania	1.449	Ethiopia	1.716	Morocco	1.972	Azerbaijan	2.288
Belgium	1.459	Croatia	1.716	Belarus	1.988	Norway	2.406
Estonia	1.468	Honduras	1.720	Qatar	2.000	Afghanistan	2.421
The Gambia	1.479	Australia	1.722	Kyrgyz Republic	2.009	Yemen	2.430
Mauritius	1.485	Uganda	1.724	Italy	2.010	India	2.472
Senegal	1.500	Niger	1.727	Iran	2.011	Sudan	2.500
Thailand	1.506	Kazakhstan	1.740	Mauritania	2.017	Libya	2.513
Madagascar	1.513	Paraguay	1.742	Burundi	2.020	Pakistan	2.551
Slovakia	1.518	South Africa	1.746	Uzbekistan	2.026	Saudi Arabia	2.581
Kosovo	1.530	El Salvador	1.750	Angola	2.026	United Kingdom	2.586
Guyana	1.532	Kenya	1.753	Turkmenistan	2.028	France	2.595
Cuba	1.559	Albania	1.755	Republic of the Congo	2.033	Iraq	2.670
Panama	1.568	Myanmar	1.770	Switzerland	2.036	Oman	2.743
Cameroon	1.579	Georgia	1.774	Zimbabwe	2.036	Ukraine	2.810
Tunisia	1.579	Trinidad and Tobago	1.776	Vietnam	2.038	United States of America	3.023
Canada	1.580	Namibia	1.789	South Korea	2.040	Syria	3.059
Costa Rica	1.581	Nepal	1.808	Bahrain	2.048	North Korea	3.135
Poland	1.582	Ghana	1.809	China	2.055	Russia	3.314
Haiti	1.587	Malawi	1.812	Egypt	2.058	Israel	3.817
Bosnia and Herzegovina	1.592	Gabon	1.822	Central African Republic	2.059		
Argentina	1.597	Papua New Guinea	1.834	Guinea	2.060		
Bangladesh	1.597	Germany	1.839	Guinea-Bissau	2.061		
Mongolia	1.611	Taiwan	1.859	Mali	2.062		
Nicaragua	1.635	Lesotho	1.860	Democratic Republic of the Congo	2.082		
Zambia	1.637	Jamaica	1.885	Chad	2.082		
		Togo	1.891				

END NOTES

Section 3

Global Economic Value of Peace

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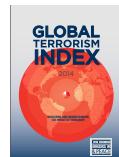
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Radical Realism

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Twelve interviews with peacebuilders on developing the attitudes, institutions and structures of Positive Peace in Mexico.



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2015 Global Peace Index

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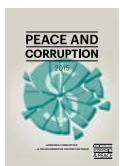
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Peace and Corruption

Institute for Economics and Peace, May 2015

The relationship between peace and corruption is statistically significant, as corruption is a leading indicator of peace.



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The UK Peace Index report analyses the fabric of peace in the UK over the last decade and has found that since 2003 the UK has become more peaceful.



2015 Mexico Peace Index

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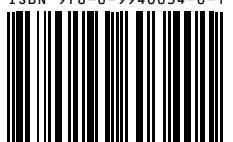
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