



THE GLOBAL STATE OF DEMOCRACY INDICES: TECHNICAL PROCEDURES GUIDE

Version 6 (2022)



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About this document

The Global State of Democracy Indices: Technical Procedures Guide, Version 6 is the third in a series of documents prepared by International IDEA to present the Global State of Democracy (GSoD) Indices. It outlines the technical aspects of constructing the Indices, and complements *The Global State of Democracy Indices Methodology: Conceptualization and Measurement Framework, Version 6* (Skaaning 2022), which presents the theoretical framework that guided the construction of the Indices, and *The Global State of Democracy Indices Codebook, Version 6* (Tufis and Hudson 2022), which presents information about the data set, including variables, attributes of democracy, subattributes, subcomponents and indicators.

The GSoD Indices depict democratic trends at the country, regional and global levels across a broad range of different attributes of democracy in the period 1975–2021 but do not provide a single index of democracy. The Indices produce data for 174 countries. The data underlying the Indices is based on 116 indicators developed by various scholars and organizations using different types of sources, including expert surveys, standards-based coding by research groups and analysts, observational data and composite measures.

The Global State of Democracy is a report that aims to provide policymakers with an evidence-based analysis of the state of global democracy, supported by the GSoD Indices, in order to inform policy interventions and identify problem-solving approaches to trends affecting the quality of democracy around the world.

The full publication, as well as the GSoD Indices Database, can be accessed online:

[<https://www.idea.int/gsod>](https://www.idea.int/gsod)

Introduction

This Guide outlines the process of constructing the Global State of Democracy (GSoD) Indices, which inform *The Global State of Democracy 2021* (International IDEA 2021). It is written for readers who want a better understanding of the Indices, as well as researchers who may wish to use and build on the data contained within them. This Guide builds upon the GSoD Indices Methodology. For a detailed outline of the conceptual and measurement framework see *The Global State of Democracy Indices Methodology: Conceptualization and Measurement Framework, Version 6* (Skaaning 2022).

For each component of the construction of the GSoD Indices, the Guide provides information about the procedures followed, outlined in a step-by-step description to allow the interested reader to understand the research process. The eight steps can be summarized as follows:

1. Identifying the data sources (see Chapter 1);
2. Preparing the data sources for merger (see Chapter 2);
3. Preparing the indicators for merger (see Chapter 3);
4. Assessing the unidimensionality of the Indices (see Chapter 4);
5. Aggregating the indicators into Indices (see Chapter 5);
6. Scaling the Indices (see Chapter 6);
7. Computing the confidence intervals (see Chapter 7); and
8. Conducting validity checks (see Chapter 8).

After a brief description of the theoretical structure that guided this project, the Guide presents the data sources, the coverage of the data set, the indicators used to construct the main attributes and subattributes of democracy, the procedures used to compute these attributes and the structure of the complete data set.

BACKGROUND

The main objective of the GSoD Indices is to identify systematic data that captures trends at the global, regional and national levels for different aspects of International IDEA's comprehensive understanding of democracy. The Indices turn a broad range of empirical indicators from various data sets into measures of different aspects (attributes, and subattributes; see Figure I.1) of democracy that can be used to evaluate the state of democracy at the global, regional and national levels. The Indices can also help stakeholders, such as policymakers, researchers and civil society actors, in their analysis of trends related to different aspects of democracy and to identify priority policy areas.

The Global State of Democracy 2021 (International IDEA 2021) is an example of how the GSoD Indices can be used to track trends in democratic development. Version 6 of the GSoD Indices (2022) cover 174 independent countries in the period 1975–2021. The Indices are composite measures based on 116 indicators from different kinds of extant data sources. These indicators are assigned to the different subattributes in the conceptual framework and combined into the GSoD Indices using either item-response theory (IRT) modelling, Bayesian factor analysis (BFA) or mathematical operations such as multiplication and averaging. A key feature of the methodology is that it generates uncertainty estimates for each index, which allows users of the data set to assess whether the differences in scores over time and across countries are significant.

The GSoD Indices were produced by a team of International IDEA staff and two external experts. The construction of the Indices was supervised by an Expert Advisory Board consisting of five leading experts in the field of democracy measurement. To ensure consistency, transparency and high levels of measurement validity and reliability, careful justification and documentation of the conceptual distinctions and methodological choices made, and the use of state-of-the-art procedures were emphasized at all stages of the construction of the Indices.

CONCEPTUAL STRUCTURE

The GSoD Indices build on an elaborate conceptual framework that is rooted in International IDEA's State of Democracy (SoD) Assessment Framework (Beetham et al. 2008). The SoD Assessment Framework is defined by two principles (popular control and political equality), seven mediating values (participation, authorization, representation, accountability, transparency, responsiveness and solidarity), and four pillars (citizens, law and rights; representative and accountable government; civil society and popular participation; and democracy beyond the state). For more details, see the SoD Assessment framework (Beetham et al. 2008) and the GSoD Indices methodology (Skaaning 2022). The democratic principles underpinning the SoD framework—popular control and political equality—are also at the core of the GSoD Indices. In order to construct the GSoD Indices, however, the SoD conceptual framework was modified to transform it into a systematic, cross-national and cross-temporal quantitative measurement tool (Skaaning 2022).

The GSoD Indices aim to capture the extent to which (a) there is effective popular control over public decision-makers, or vertical accountability; (b) citizens have politically relevant freedoms and power resources; (c) executive power is checked effectively by other powers, or horizontal accountability; (d) public authorities are impartial and predictable in implementing the law; and (e) people have and make use of various opportunities for political participation at different levels (Skaaning 2022).

The GSoD data set therefore contains separate, fine-grained Indices related to five attributes of democracy (see Beetham 1999: 154–57; Beetham et al. 2008: 27–28):

1. Representative Government (free and equal access to political power)
2. Fundamental Rights (individual liberties and resources)
3. Checks on Government (effective control of executive power)
4. Impartial Administration (fair and predictable public administration)
5. Participatory Engagement (instruments for and realization of political involvement)

In addition, the GSoD conceptual framework contains, at lower levels of abstraction, 16 subattributes and an additional five subcomponents of civil liberties and three subcomponents of social rights and equality. Figure 1 presents a schematic overview of the GSoD conceptual framework.

Separate GSoD Indices are constructed for each attribute and subattribute (see Table I.1). The only exception is the fifth attribute, participatory engagement. This theoretical dimension is conceptually and empirically multidimensional and there are no obvious ways to aggregate its subattributes.

Figure I.1. The Global State of Democracy: Conceptual framework



Source: International IDEA

Table I.1. Attributes, subattributes and general assessment questions of the GSoD conceptual framework

Attribute	Subattribute	Assessment question
1. Representative Government (free and equal access to political power)	1.1. Clean Elections	To what extent are elections free from irregularities?
	1.2. Inclusive Suffrage	To what extent do all adult citizens have voting rights?
	1.3. Free Political Parties	To what extent are political parties free to form and campaign for office?
	1.4. Elected Government	To what extent is access to government determined by elections?
2. Fundamental Rights (individual liberties and resources)	2.1. Access to Justice	To what extent is there equal, fair access to justice?
	2.2. Civil Liberties	To what extent are civil liberties respected?
	2.3. Social Rights and Equality	To what extent are there basic welfare, and social and political equality?
3. Checks on Government (effective control of executive power)	3.1. Effective Parliament	To what extent does parliament oversee the executive?
	3.2. Judicial Independence	To what extent are the courts independent?
	3.3. Media Integrity	To what extent are there diverse, critical media sources?
4. Impartial Administration (fair and predictable public administration)	4.1. Absence of Corruption	To what extent is the exercise of public authority free from corruption?
	4.2. Predictable Enforcement	To what extent is the enforcement of public authority predictable?
5. Participatory Engagement (instruments of and for the realization of political involvement)	5.1. Civil Society Participation	To what extent do people participate in civil society organizations?
	5.2. Electoral Participation	To what extent do people participate in national elections?
	5.3. Direct Democracy	To what extent are mechanisms of direct democracy available and used?
	5.4. Local Democracy	To what extent are there freely elected, influential local governments?

Source: Skaaning (2022)

1. DATA SOURCES

International IDEA's GSoD Indices are composite measures based on 116 indicators collected from 12 different data sets. No original data collection was carried out in connection with the initial construction of the GSoD Indices. However, since 2018, International IDEA has coded new years for several of the datasets that have not been updated by their original authors.

A number of criteria guided the selection of the data sets to be used for collecting the indicators. First, only those data sets that provided transparent and credible information on data-generating processes were selected. Second, data sets were needed with extensive coverage both spatially (at least 140 countries) and temporally (at least 30 years in the period 1975–2021). Third, data sets were also needed that have been and will continue to be updated on a regular basis. Fourth, priority was given to open-access data sets.

Four different types of sources were used to collect data for these data sets:

1. Expert surveys (ES), for which country experts generate data based on their assessment of the situation regarding particular issues in a given country;
2. Standards-based in-house coding (IC), which is used by researchers to generate data based on an evaluative assessment of country-specific information collected through desk research from various reports, academic publications, reference works or news sources;
3. Observational data (OD) on features that are directly observable and do not need the interpretation of experts or researchers, such as infant mortality rates or the representation of women in parliament; and
4. Composite measures (CM), which generate data based on a number of variables from different existing data sets rather than on original data collection.

For a more detailed discussion of the advantages and disadvantages of the various types of data used see Skaaning (2019). Table A.1 (see Annex A) lists the 12 data sets used, the type of data they offer and the number of indicators collected from each of them.

Data set	Data provider	Reference
Bjørnskov-Rode Regime Data (BRRD)	Bjørnskov and Rode	< http://www.christianbjoernskov.com/bjoernskovrodedata/ >
Civil Liberties Dataset (CLD)	Møller and Skaaning	< http://ps.au.dk/forskning/forskningsprojekter/dedere/datasets/ >
Food and Agriculture Organization (FAO) statistics	FAO	< http://www.fao.org/faostat/en/#home >
Global Health Data Exchange (GHDx)	Global Health Data Exchange	< http://ghdx.healthdata.org/ >
International Country Risk Guide (ICRG)	Political Risk Services	< http://epub.prsgroup.com/products/icrg >
Lexical Index of Electoral Democracy (LIED)	Skaaning, Gerring and Bartusevičius	< http://ps.au.dk/forskning/forskningsprojekter/dedere/datasets/ >
Media Freedom Data (MFD)	Whitten-Woodring and Van Belle	< http://faculty.uml.edu/Jenifer_whittenwoodring/MediaFreedomData_000.aspx >
Political Terror Scale (PTS)	Gibney, Cornett, Wood, Haschke, Arnon and Pisanò	< http://www.politicalterrorscale.org/ >
Polity IV	Marshall, Jaggers and Gurr	< http://www.systemicpeace.org/inscrdata.html >
United Nations (UN) Demographic and Social Statistics	UN Statistics Division	< https://unstats.un.org/unsd/demographic-social/index.cshtml >
United Nations Educational, Scientific and Cultural Organization (UNESCO) statistics	UNESCO	< http://data.uis.unesco.org/ >
Varieties of Democracy data set	V-Dem	< https://www.v-dem.net/ >

Step 1: Gathering the data sources

The first step was to gather the data sources for use in constructing the GSoD Indices. For each data set, the most recent version of the data was downloaded, together with the corresponding codebook or other supporting documents required to understand the content of the data set.

For the most recent update of the GSoD Indices (v6, 2022), Version 12 of the Varieties of Democracy (V-Dem) data set, released in the Spring of 2022, was used. Updated versions of the Civil Liberties Dataset (CLD), the Lexical Index of Electoral Democracy (LIED) and the Media Freedom Dataset were obtained directly from the authors. The International Country Risk Guide (ICRG) data set was purchased. For the remaining eight data sets (see Table A.1), the versions available online were downloaded during March–May 2022. Since the Bjørnskov-Rode Regime Data, CIRIGHTS, Polity5 and Political Terror Scale data sets had not been updated by that time, missing scores for 2018 to 2021 (as needed) were added by International IDEA staff based on the Human Rights Reports of the U.S. State Department and in close consultation with the academic advisors of the GSoD Report. A copy of the downloaded data was archived for future reference. The next step in the procedure was to prepare the data to enable the indicators to be consolidated into a single data set.

Note: Examples of the syntax (code) included in this Guide are provided only for those steps that involve the actual computation of the GSoD Indices. The data cleaning procedure can be carried out in multiple ways, primarily using R.

2. COVERAGE

The unit of observation for International IDEA's Global State of Democracy Indices is the country-year. The 2022 release of the data set contains data for 174 countries for up to 47 years, giving a total of 7,657 country-years. Details of the spatial and temporal coverage of the data set are presented in the following sections.

SPATIAL COVERAGE

International IDEA's GSoD Indices provide data for almost all the independent countries in the world with a population in 2020 of at least 250,000 people. Countries are included in the data set from 1975 or, if the country was not independent in 1975, the year it gained independence (see Step 2). The data set does not include semi-sovereign units such as Somaliland. Countries that have been dissolved remain in the data set until they cease to exist. Using these inclusion rules, the data set is composed of 174 countries. The only country that has exited the data set is the German Democratic Republic, which was dissolved in 1990 after unification with the Federal Republic of Germany.

A complete list of the 174 countries included in the GSoD Indices data set is provided in Table B.1 (see Annex B).

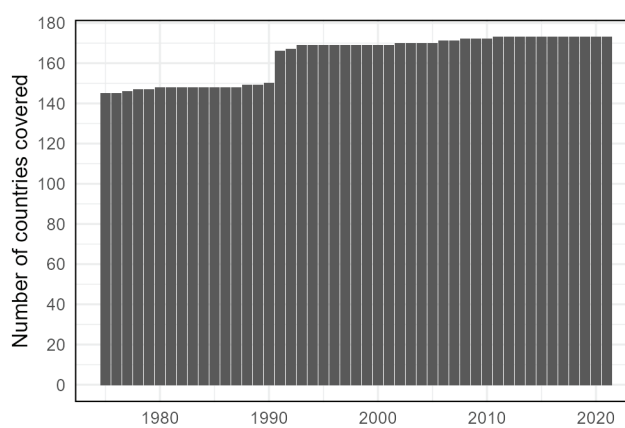
TEMPORAL COVERAGE

The fifth edition of International IDEA's GSoD Indices covers the period 1975–2021. The data set covers the period since the International Covenant on Civil and Political Rights and the International Covenant on Economic, Social and Cultural Rights took effect in 1976, using 1975 as a reference point. Moreover,

the data set starts with a period that is often referred to as ‘the third wave of democratization’ (Huntington 1991) in the democratization literature.

The number of countries covered each year by the GSoD Indices is shown in Figure 2.1, while Table B.1 (see Annex B) indicates the temporal coverage for each of the 174 countries included in the data set.

Figure 2.1. Temporal coverage of International IDEA’s Global State of Democracy Indices, 1975-2021



Source: International IDEA

GEOGRAPHICAL REGIONS

International IDEA’s GSoD Indices also include aggregated values at the regional and subregional levels. The regional definitions follow closely those developed by International IDEA for The Global State of Democracy (see International IDEA 2017), which creates regions based on a geographical criterion while also taking account of the cultural and historical links among countries that belong to the same subregion or region. In total, aggregated values are presented for a total of five regions and 18 subregions:

1. Africa (East Africa, Central Africa, North Africa, Southern Africa, and West Africa)
2. Americas (Caribbean, Central America, Northern America, and South America)
3. Asia and the Pacific (Central Asia, East Asia, South Asia, South-East Asia, and Oceania)
4. Western Asia
5. Europe (Central Europe, Eastern Europe, Southern Europe, and North/Western Europe)

It should be noted that the values in the data set are aggregated without using population weights. Table B.2 (see Annex B) contains a complete list of the regions and subregions, as well as their membership.

REGIONAL ORGANIZATIONS

International IDEA's GSoD Indices also contain aggregated values for five regional and international organizations: the African Union (AU), the Association of South East Asian Nations (ASEAN), the European Union (EU), the Organisation for Economic Co-operation and Development (OECD) and the Organization of American States (OAS).

As in the case of the geographical regions, the values in the data set are aggregated without using population weights. A complete list of the regional organizations and their membership is given in Table C.1. (see Annex C).

Step 2: Preparing the data sources for merger

Once the coverage of the GSoD Indices had been established (174 countries, and the period 1975–2021), the next step was to prepare the various data sources used to be merged into a single data set.

The input data were subsetting to include only the country-years covered by the GSoD Indices. For example, the German Democratic Republic ceased to exist during the covered period so the country-years after its dissolution were deleted. In other cases, such as the former Soviet republics, the countries were formed during the period covered. The country-years before these countries gained independence were therefore deleted. After excluding all these country-years, the country-year matrix contained 7,657 country-years. In all cases, a standard procedure for success states was used, broadly following the procedures of the Varieties of Democracy project. Czechia is the successor of Czechoslovakia, Russia is the successor of the Soviet Union, Serbia is a successor of Yugoslavia and so on. For a detailed description of this procedure see Coppedge et al. (2016b).

Since the different data sources came in different forms, a common set of identifying variables was created for each of the 12 data sources: the year and a country code. The numeric codes from the Correlates of War (COW code) were used for the country code variable. Some data sources, such as V-Dem, already included this variable but it had to be created for other data sources based on the name or abbreviation of the country. In the final version of the dataset, these identifiers are complemented by a country-year variable that was created by concatenating the values from the country-code variable (of between 2 and 920) with the values for the year variable (from 1975 to 2021). This resulted in a country-year variable with a value from 21975 to 9202021, which uniquely identifies each combination of country and year in the data set.

Step 2: Preparing the data sources for merger (cont.)

In some cases, the data sources also had to be put into country–year format. The International Country Risk Guide (ICRG) data set, for instance, comes in a wide format that had to be transformed into the long format by transposing the variable years into country–years.

The GSoD Indices data set also includes mean values for geographical regions and subregions, treating them as units within the dataset. To facilitate analysis, codes for the regions and subregions were added to the variable indicating the country codes. These are additional to the country codes based on the COW codes. The codes from 971 to 989 were reserved for the geographical subregions, while the codes from 991 to 996 were reserved for the geographical regions and code 999 reserved for the whole world. The same approach was used for the regional organizations included in the data set. Codes 961 to 965 were reserved for them. Unique country–year identifiers were also constructed for these additional regions and regional organizations by concatenating their codes and the years. For more details about the codes reserved for the geographical regions and subregions and for the regional organizations see the GSoD Codebook (Tufis and Hudson 2022).

3. INDICATORS

The GSoD Indices conceptual framework guided the selection of the indicators to be included in the data set. The indicators rely on various types of sources and are collected from extant data sets compiled by different organizations and researchers. The main priority in the selection of indicators was a high level of concept–measure consistency, or the extent to which the indicators really capture the core meaning of the particular concepts in question. In addition, the aim wherever possible was to select multiple indicators for each subattribute—especially where an adequate observable indicator was not available.

Assuming the selection of high-quality indicators, a cumulative approach to measurement generally improves confidence in the scores since it utilizes the combined efforts of various data providers in order to make the resulting measures more nuanced and reliable. The use of different indicators enables the capture of related, but nonetheless distinct, aspects of the features to be measured. It also tends to reduce the influence of idiosyncratic measurement errors associated with individual indicators. Finally, drawing on several indicators makes it possible to assess the level of agreement between indicators and use this information to calculate uncertainty estimates for the Indices (see Pemstein, Meserve and Melton 2010; Fariss 2014).

Each of the 116 indicators selected from the 12 data sources corresponds to one of the subattributes or attributes of democracy developed for International IDEA's GSoD Indices. Table D.1 links a complete list of the indicators to the attributes and subattributes. Table D.2 presents information about the source for each indicator. Finally, Table D.3 summarizes the coverage and missing data for each indicator (see Annex D). There is an extensive discussion on the selection of indicators in Skaaning (2020), while detailed information on each of the indicators is available in Tufis (2020).

Step 3: Preparing the indicators for merger

All the indicators selected for inclusion in International IDEA's GSoD Indices have been put through a process of data cleaning to ensure that the data is correct and follows the country–year format. The GSoD Codebook indicates for each indicator whether it was changed in any way from the original data and, if so, lists the specific changes. Only the types of changes made to prepare the indicators are set out below. These can be grouped into three main categories: (a) recoding the data; (b) interpolation of data; and (c) computing the data for geographical regions and subregions, and regional organizations included in the data set.

Different types of recoding procedures were used for different indicators in order to prepare them for calculating the GSoD Indices. First, in some cases, the original data included specific codes for missing values. All the specific codes for missing values were recoded as system missing, indicating that the value for that variable for the particular country–year is not available.

Second, for all those variables that were measured on an interval-level scale or that were aggregated using item response theory (IRT) models, the original variables were recoded into ordinal-level variables. For more details about the aggregating procedures used see Skaaning (2022: section 3.4). The recoding was done by grouping the original data into 20 categories, each of five percentiles. In this way, interval-level variables ranging from approximately –3.5 to approximately 3.5 were recoded into ordinal-level variables ranging from 1 (the first category, comprised of the bottom five percentiles) to 20 (the last category, comprised of the top five percentiles).

Third, some indicators had categories with very few cases (country–years). As a general rule, categories with less than 1 per cent of the data were recoded into adjacent categories (see the Codebook). Fourth, in some cases the scale was inversed so that all indicators included in an index run in the same direction, with low values indicating absence or low levels of an attribute and high values indicating presence or high levels of an attribute.

With respect to interpolating the data—that is, replacing missing values with reasonable estimates of values in order to increase the coverage of an indicator—different approaches were used, depending on the characteristics of the specific indicator being analysed.

Two different types of interpolation were used for indicators from data sources that did not code the data every year. For indicators related to electoral processes, the values from the election year were duplicated for the remaining years in the electoral cycle. For instance, the value observed for voter turnout in a particular country in 1976 was used for the remaining years in the electoral cycle, 1977, 1978 and 1979, until a new election was held with a new observed value for voter turnout in 1980. For other indicators, which were measured at various time intervals and where the phenomenon being measured is likely to change only slowly, linear interpolation was used from one measurement to the next, assuming a linear process of change over time. In the case of literacy, where there is a great deal of missing data (for example, one observation every ten years), stine interpolation was used to approximate the missing values between valid observations.

Step 3: Preparing the indicators for merger (cont.)

Finally, the values for all the indicators had to be computed for the geographical regions and subregions, and the regional organizations included in the GSoD Indices data set. Data for these additional units was not available from the original data sources. A simple approach was used, taking averages for each country-year of the values of the indicator for all the countries belonging to the region (or subregion) and regional organization. It should be noted that population weights were not used during the averaging, so each country is weighted equally.

4. ASSESSING THE UNIDIMENSIONALITY OF THE INDICES

Both this step and the following step translate the theoretical links between the attributes and subattributes, and between the subattributes and indicators, into corresponding aggregation formulas. The GSoD framework is based on the assumption that the more the principles are met, the more democratic a political system is. Thus, the achievement of these principles is not seen as an either/or matter, but as a matter of degree. The choice made of the measurement process—to construct Indices with relative, fine-grained scales and uncertainty estimates but without substantive thresholds—also aligns better with this gradualist perspective than crisp distinctions.

Reflective aggregation models and formative aggregation models were used to combine the various indicators into composite Indices. Where indicators of the theoretical constructs reflected a common underlying variable and/or generally showed very high levels of covariation, aggregation based on item response theory (IRT) models or Bayesian factor analysis (BFA) was used. For a detailed discussion of the distinction between formative and reflective indicators, and for detailed descriptions of the aggregation methods used, see Skaaning (2022).

It should be noted that, regardless of the aggregation method used, the goal in all cases was the same: to use the information contained in multiple indicators that are measuring different facets of the same phenomenon to construct an index that measures better than its composing indicators the phenomenon that is to be measured. Both IRT and BFA are data reduction procedures that combine the various interrelated indicators into a single measure.

Many of the selected indicators were expected to cluster in meaningful ways and to tap into a limited number of overarching concepts. These expectations were based on theoretical grounds and because previous dimensionality analyses of these (and related) indicators have shown that many of them are highly correlated and reflect common latent dimensions (see e.g. Skaaning 2009; Møller and Skaaning 2014a, 2014b; Teorell et al. 2016).

ITEM RESPONSE THEORY (IRT)

IRT modelling was used at the lowest level of aggregation (subattribute or subcomponent level) if there were a significant amount of missing data (more than 5 per cent) in any of the indicators used to reflect the concept in question. This allowed use of multiple indicators of the same latent concept 'to identify and correct for measurement error, and to quantify confidence in the reliability of our estimates' (Pemstein et al. 2015: 30). A lack of overlap in the coverage of indicators does not result in missing values in estimates for the affected country–years, as would be the case if using factor analysis. Using full information maximum likelihood IRT models means that all the relevant information from the indicators can be used. The missing data in some indicators are then reflected in the uncertainty estimates, which also reflect the level of agreement between indicator scores, or the extent to which they are correlated. If none of the indicators provides data for a given country–year, no estimate is calculated for this country–year. The mirt package developed by Philip Chalmers (2020) was used to conduct the modelling.

BAYESIAN FACTOR ANALYSIS (BFA)

If there is virtually perfect overlap in the measures, then BFA becomes a more viable option. Like IRT models, BFA provides point estimates for the latent dimension and confidence intervals, but it does so only for country–years with uniform indicator coverage. BFA was therefore used to combine indicators only if all of them had a low level of missing data. Moreover, when applicable, BFA was used to combine subcomponent scores into subattribute scores, and thereafter subattribute scores into attribute scores (i.e. if the measures were expected to reflect the same latent concept in the framework, and when the indicators/Indices to be aggregated showed very strong correlations). For BFA the MCMCpack package in R was used (Martin, Quinn and Park 2020).

FORMATIVE APPROACH

When indicators are understood as constitutive components of the concept of interest, this means that the indicators are not necessarily highly correlated. Here, the use of a formative approach is more plausible. Formative models were used in the GSoD framework when a particular version of the procedure was judged to be more appropriate than purely reflective procedures. Hence, a formative model was used to combine the contestation index with an inclusiveness indicator to create the representative government index, and a formative model was also used to aggregate indicators related to the presence, and freedom and fairness of local elections (see Step 5: Aggregating the indicators into Indices).

Step 4: Assessing the unidimensionality of Indices

Aggregating multiple indicators into a single index rests on the assumption that the indicators are interrelated, and that they are measuring different manifestations/forms of the same phenomenon. These assumptions, however, have to be tested and confirmed before proceeding with constructing the Indices. Four different ways were used to test the assumption or verify that the indicators could be combined into Indices.

First, the bivariate correlations among all the indicators included in an index were computed for all the Indices. There was an expectation that all the indicators included in an index would be interrelated (correlated), which indicates that they are measuring some aspect of the phenomenon that the index is supposed to measure. The correlation tables are presented in Annex F. Most of the indicators are highly to very highly correlated with the other indicators belonging to the same index. The correlations usually range from 0.6 to 0.9, and most of them are higher than 0.8. Some indicators display only medium correlations of around 0.4 to 0.5, but these are few in number and there are theoretical reasons for keeping them as part of the construction of the index.

Second, high correlations among the indicators are necessary, but not sufficient for constructing the Indices. Since the goal is to construct one index for each of the main attributes of democracy, the indicators that are included in an index have to be related in such a way that they measure the same attribute (a single factor). Thus, a number of factor analyses were computed that allow one of up to three factors to be extracted, depending on the number of indicators included in the index (The results of these analyses are not shown but are available on request). In all cases, the single factor solution was better than possible two- or three-factor solutions, suggesting that the Indices can be reduced to a single dimension.

Third, Bayesian factor analyses were computed, asking for single factor extraction for all the Indices. The results of these analyses (see Annex E) show that the indicators have very high loadings on the Indices to which they belong.

Fourth, for each index the Cronbach's Alpha coefficient was also computed to assess the internal consistency of the indicators as a group. The smallest value recorded for Cronbach's Alpha was 0.78, while 15 of the 24 Indices computed had a Cronbach's Alpha higher than 0.90. All but one of the values were above the usually accepted threshold of 0.80.

All the results discussed above support the argument that the indicators reflect common latent dimensions where they are expected to do so, which justifies aggregating them into a single index.

5. AGGREGATING THE INDICATORS INTO INDICES

As indicated in Chapter 4, two different methods were used to aggregate indicators into Indices: IRT and BFA. The choice between the two methods was determined solely by the proportion of missing values in the indicators included in each index. First, the indicators for the five subattributes belonging to the civil liberties subattribute and for the three belonging to the social rights and equality subattribute were aggregated and the estimates saved in the data set. The indicators for the subattributes of democracy were then aggregated and saved in the data set.

In the case of the two subattributes discussed above—civil liberties, and social rights and equality—which are composed of subcomponents that include indicators, the indicators were first aggregated into subcomponents and the subcomponents then into subattributes.

When using IRT as an aggregating procedure, the scores were estimated using the mirt package in R. Box 5.1 is an example of the syntax used to estimate the scores. The mirt package gives two estimates for each index—the estimate and its standard error for each country–year that has at least one valid value on the indicators that compose the index. The estimates and their standard errors are saved in an output file and then imported into the data set where they can be used for additional computations if needed.

Box 5.1. Syntax for aggregating indicators into Indices using IRT

```
library(mirt) # load the mirt library
### 1.3. IRT: Free political parties # estimate subattribute 1.3
starttime <- Sys.time()
# Select all cases that have values on at least one variable
SD13score <- subset(Scoresv01, !is.na(v_13_01) | !is.na(v_13_02) |
  !is.na(v_13_03) | !is.na(v_13_04) | !is.na(v_13_05) |
  !is.na(v_13_06))
nrow(SD13score) # Check the number of cases
# Run the model and compute the scores
SD13irt <- mirt(SD13score[,17:22], 1, itemtype = 'graded', technical =
  list(NCYCLES = 5000))
Scores_SD13 <- fscores(SD13irt, method = 'MAP', full.scores = TRUE,
  full.scores.SE = TRUE)
# Save the scores
SD13_save <- cbind(SD13score[,1:7], Scores_SD13)
# Export the scores
write.csv(SD13_save, file = "SD13_save.csv")
endtime <- Sys.time()
timetaken_SD13 <- endtime-starttime
```

Note: Text in italics represents the names of the variables and files. For more detail on the options for the procedures used see Chalmers (2020).

When using BFA as an aggregating procedure, the scores were estimated using the MCMCpack package in R, more specifically the MCMCfactanal command. Box 5.2 provides an example of the syntax used to estimate the scores. For each index, the MCMCpack package gives two estimates, the estimate and its standard error, for each country–year that has valid values on all the indicators that compose the index. The estimates and their standard errors are saved in an output file and then imported into the data set, where they can be used for additional computations if needed.

Box 5.2. Syntax for aggregating indicators into Indices using BFA

```
library(MCMCpack) # load the MCMCpack library
# 2.2.A. BFA: Freedom of expression
starttime <- Sys.time()
# Run the model and compute the scores
SD22a <- MCMCfactanal(~v_22_01 + v_22_02 + v_22_03 + v_22_04 + v_22_05 +
  v_22_06 + v_22_07, factors = 1, lambda.constraints = list(),
  data = Scoresv01, burnin = 5000, mcmc = 100000, thin = 100,
  verbose = 1000, seed = NA, lambda.start = NA, psi.start = NA,
  l0=0, L0=0, a0=0.001, b0=0.001, store.scores=TRUE, std.var =
  TRUE)
# Save and export the scores
capture.output(summary(SD22a), file = "SD22a_score.txt")
#summary(SD22a)
endtime <- Sys.time()
timetaken_SD22a <- endtime-starttime
system("Say Oh, most wonderful, your data analysis is complete")
```

Note: Text in italics represents the names of the variables and files. For more detail on the options for the procedures used see Martin, Quinn and Park (2020).

The aggregation rules used for each sub-dimension, subattribute and attribute computed are shown in Table 5.1.

Table 5.1. Aggregation rules for the creation of Indices at the attribute and subattribute levels

Attribute	Aggregation	Subattribute	Aggregation
1. Representative Government (free and equal access to political power)	Bayesian factor analysis of clean elections, free political parties and elected government to create contestation index; thereafter, multiplication of contestation and inclusive suffrage	1.1. Clean Elections	Bayesian factor analysis
		1.2. Inclusive Suffrage	Weighted average
		1.3. Free Political Parties	Item response modelling
		1.4. Elected Government	Item response modelling
2. Fundamental Rights (individual liberties and resources)	Bayesian factor analysis	2.1. Access to Justice	Bayesian factor analysis
		2.2. Civil Liberties	First item response modelling or Bayesian factor analysis by subcomponents (i.e. freedom of expression [BFA], freedom of association and assembly [BFA], freedom of religion [BFA], freedom of movement [BFA], and personal integrity and security [IRT]). Thereafter, Bayesian factor analysis of subcomponent indices.
		2.3. Social Rights and Equality	First item response modelling by subcomponents (i.e. social group equality, gender equality, and basic welfare). Thereafter, Bayesian factor analysis of subcomponent indices.
3. Checks on Government (effective control of executive power)	Bayesian factor analysis	3.1. Effective Parliament	Item response modelling
		3.2. Judicial Independence	Item response modelling
		3.3. Media Integrity	Item response modelling
4. Impartial Administration (fair and predictable public administration)	Bayesian factor analysis	4.1. Absence of Corruption	Item response modelling
		4.2. Predictable Enforcement	Item response modelling
5. Participatory Engagement (instruments for realization of political involvement)	N/A (no obvious way to combine the multidimensional subattributes)	5.1. Civil Society Participation	Item response modelling
		5.2. Electoral Participation	N/A (only one indicator)
		5.3. Direct Democracy	Multiplication
		5.4. Local Democracy	Multiplication

Source: Skaaning (2022).

Step 5: Aggregating the indicators into Indices

Representative Government: Due to missing data, two subattributes (free political parties and elected government) were aggregated using IRT. The clean elections subattribute is composed of indicators that do not suffer from high levels of missing data, so this was aggregated using BFA. The inclusive elections subattribute was computed as a weighted average of its two indicators. In a final step, all the country-years without an electoral regime according to V-Dem, and Bjørnskov and Rode were scored the minimum value of 0.

The suffrage indicator was combined with the other three subattribute Indices to construct an overall Representative Government index but only after the construction of an 'intermediate' index based on the other subattribute Indices. Inspired by Dahl's theoretical distinction between two dimensions of representative government—contestation and inclusion (1971; 1989; see also Coppedge, Alvarez and Maldonado 2008; Miller 2015)—the factor scores from a BFA were first used to construct a contestation index. Thereafter, a formative aggregation procedure was chosen to combine the contestation index with the suffrage measure. Although contestation and inclusion are not highly correlated, they both constitute necessary conditions for representative government. Accordingly, the Representative Government index is based on a multiplication of the suffrage scores and the normalized scores for the contestation index.

Fundamental Rights: Since none of the indicators linked to Access to Justice have significant amounts of missing data, they were combined using BFA. Regarding the second subattribute of Fundamental Rights—civil liberties—all five subcomponent Indices were constructed using IRT. In the next step, BFA was used to reduce the highly correlated subcomponents into a single index score for the civil liberties subattribute. IRT was used to construct the three subcomponents of the social rights and equality subattribute, which were then combined in the subattribute using BFA. Finally, the three Fundamental Rights subattributes were aggregated into the fundamental rights index using BFA.

Checks on Government: Three reflective Indices were created—on effective parliament, judicial independence and media integrity—using IRT for each subattribute due to the significant gaps in some of the indicators. These Indices were then aggregated into a more general index using BFA, as they tend to reflect a common underlying dimension, which was interpreted as checks on government.

Impartial Administration: Since the ICRG indicators had substantial deficiencies in coverage, the two Indices constructed from the indicators grouped with absence of corruption and predictable enforcement were based on IRT modelling. These were then used to construct an Impartial Administration index based on BFA scores.

Participatory Engagement: On its subattributes, no aggregation was needed for electoral participation, since only one indicator was used. The three indicators on civil society participation clearly tapped into a common dimension. They were aggregated into an index using IRT modelling. For direct democracy we used an existing index and multiplied it by our own Clean Elections subattribute. For local democracy, a formative aggregation formula was chosen, which took into account the reinforcing relationship between the mere existence of subnational elections and their freeness and fairness.

Step 5: Aggregating the indicators into Indices (cont.)

The relationship between the subattributes and the overarching attribute is less evident for Participatory Engagement, and the subattribute Indices linked to this attribute are not highly correlated. This could reflect the fact that they capture fairly distinct phenomena even though they are all conceptually related as expressions of popular participation. Aggregation through reflective models did not appear plausible. As it is also unclear from extant theory whether the different aspects of popular participation stand in an interactive and/or substitutable relationship with each other, there was no aggregation to the attribute level. Users are encouraged to use the subattribute Indices.

6. SCALING

All the Indices in the data set offer nuanced scores in the form of interval scale measurement. The Indices have been normalized (step 6) to range from 0 (lowest achievement among all the country-years) to 1 (highest achievement among all the country-years). A score of 0 generally refers to the worst performance in the whole sample of country-years covered by a particular index, while 1 refers to the best country-year performance in the sample. For a number of Indices, however, 0 also has an absolute meaning as the lowest score that is theoretically possible. The subattribute Indices capturing clean elections, elected government, direct democracy and local elections all have substantively meaningful minimum values that refer to the total absence of the features in question.

Step 6: Scaling the Indices

The normalization of the Indices was carried out by subtracting for each country-year the minimum score for the index from the value of the country-year and by dividing the result by the difference between the maximum and the minimum value of the index. The formula used for the normalization of the Indices was:

$$x'i = (xi - \min(xi)) / (\max(xi) - \min(xi))$$

where x_i represents the value of index x for country-year i , while $x'i$ represents the normalized value of index x for country-year i .

In this way, the lowest value in the population of country-years in the data set becomes 0, while the highest value in the same population of country-years in the data set becomes 1, and all the remaining country-years are given values between these two values.

7. CONFIDENCE INTERVALS

For most Indices, the yearly scores for each country are accompanied by uncertainty estimates, which can be used to assess whether differences between countries and within countries over time are significant. These uncertainty estimates, in the form of confidence intervals or margins of error, reflect the statistically likely range for the country-year index scores based on the indicators used.

The GSoD Indices confidence levels refer to one standard deviation below and above the estimated score. This means that about 68 per cent of the 'true' values would be found within these intervals. Confidence intervals are only available for those Indices that are constructed from multiple indicators. The more the underlying indicators are in agreement regarding the scoring (high-low) of a particular aspect of democracy, the narrower the confidence intervals. The more the underlying indicators are in disagreement, the wider the confidence intervals.

If the confidence levels overlap when comparing the scores for two or more countries on the same GSoD (attribute) index, the difference between the scores is less than two standard deviations and is therefore not statistically significant at the $p=0.05$ level. Similarly, overlapping confidence intervals for different years when comparing the scores of one country for a particular GSoD index also indicates that the difference is statistically insignificant. More generally, short-term fluctuations are hard to capture and should be interpreted with caution, while it is usually possible to be certain about longer-term trends.

Step 7: Computing the confidence intervals

Confidence intervals were computed by subtracting or adding the standard error from the estimated score. The lower bound of the 68 per cent confidence interval was computed by subtracting the standard error from the estimated score of the index, while the upper bound of the 68 per cent confidence interval was computed by adding the standard error to the estimated score of the index. These values were saved in the data set so that each index is represented by three different values: the point estimate and the two limits of the confidence interval. Confidence intervals have been computed for all the attributes and subattributes of democracy with the exception of Electoral Participation (5.2), which is composed of a single indicator, and the inclusive suffrage (1.2), direct democracy (5.3) and local democracy (5.4) subattributes, which are aggregated using a formative formula.

8. VALIDITY CHECKS

A series of validity checks was run throughout the process of constructing the GSoD Indices to verify that they truly measure what they are thought to be measuring. Comparisons with extant measures should indicate a high degree of correspondence between the GSoD measures and existing measures of the same phenomena.

Step 8: Validity checks

As discussed in Step 4, the dimensionality of each index was tested by running bivariate correlations for the indicators included in the index, various factor analyses and computing Cronbach's Alpha coefficients. The correlation coefficients are shown in Annex F and the data from the dimensionality tests in Annex E.

In addition to the unidimensionality tests discussed above, a second type of validity check compared extant measures that attempt to capture relatively similar aspects of democracy at the attribute, subattribute or subcomponent levels. These measures were taken from eight large-scale data collection projects: the Bertelsmann Transformation Index (Bertelsmann Stiftung, various years); the Democracy Index (Economist Intelligence Unit 2016); the Freedom in the World survey (Freedom House 2016); the Perceptions of Electoral Integrity (PEI) data (Norris et al. 2016); Polity V data (Marshall and Gurr 2020); the Worldwide Governance Indicators (Kaufmann and Kray 2010); the Rule of Law Index (World Justice Project 2016); and the Varieties of Democracy (Coppedge et al. 2020). For a summary of these data sets see Table G.1 in version 4 of the Technical Procedures Guide (2020).

Assuming that the extant measures are valid, high correlations would indicate that the GSoD Indices are also valid. If the extant measures are based on similar or the same information, high correlations would indicate that the GSoD Indices are reliable. However, correlations should be interpreted with caution since none of the extant measures are perfect and many of them capture slightly different concepts compared to the GSoD Indices.

Step 8: Validity checks (cont.)

An additional validity check conducted for both indicators and Indices as constructed at various levels of aggregation was to plot the indicators and Indices over time for each country in the data set and visually check their validity using country-specific expertise. This allowed easy identification of whether the Indices constructed corresponded to or contradicted team-based knowledge of the situation in a particular country.

Finally, all the countries in each of the Indices were sorted at 10-year intervals (1975, 1985, 1995, 2005 and 2015) to check again the face validity of the Indices by comparing their relative position at these times, as well as the changes in their relative position over time, to confirm that these conformed with existing knowledge of the evolution of different countries over the period.

Conclusion

This Guide presents the technical procedures used to construct International IDEA's Global State of Democracy Indices to provide a guide for those who want a better understanding of how the Indices were constructed and, eventually, for those who want to use, modify or build on the Indices. It provides a detailed step-by-step description of the procedures used, allowing the interested reader to follow each step.

It should be noted that this technical methodology only provides information about the method used to construct the Indices. The information presented in this document builds on and is complemented by an elaborate discussion of the conceptual background to the Indices in the GSoD Indices methodology (Skaaning 2022). If the reader is interested in a particular indicator used, more information is available in the GSoD Codebook (Tufis and Hudson 2022). These three documents taken together provide complete information on the GSoD Indices.

The Annexes present additional information that some readers or users of the GSoD Indices might find useful, including a complete list of the data sets used as data sources (Annex A); a list of the countries, regions and subregions in the GSoD data set (Annex B); a list of the regional organizations included in the GSoD data set (Annex C); the attributes, subattributes and indicators included in the GSoD data set (Annex D); and the results of the unidimensionality and validity tests performed during the creation of the GSoD data set (Annexes E, F and G).

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Annex A. Sources

Table A.1. Data sets used for collecting indicators

Data set	Type of data	No. of indicators	Spatial coverage	Temporal coverage
Bjørnskov-Rode Regime Data (BRRD)	IC	1	208 countries	1950–2020
Civil Liberties Dataset (CLD)	IC	5	203 countries	1975–2021
Food and Agriculture Organization (FAO)	OD	1	184 countries	1961–2019
Institute for Health Metrics and Evaluation (IHME)	OD	2	189 countries	1970–2030
International Country Risk Guide (ICRG)	ES	6	146 countries	1984–2021
Lexical Index of Electoral Democracy (LIED)	IC, OD	4	All independent	1800–2021
Media Freedom Data (MFD)	IC	1	187 countries	1948–2021
Political Terror Scale (PTS)	IC	1	211 countries	1976–2020
Polity V	IC	4	180 countries	1800–2018
UNESCO Institute of Statistics (UIS)	OD	3	Varying	Varying
CIRIGHTS Human Rights Data Project (CIRIGHTS)	IC	10	205 countries	1981–2017
Varieties of Democracy (V-Dem)	CM, ES, IC, OD	80	201 countries	1789–2021

Notes: ES = expert surveys; IC = standards-based in-house coding; OD = observational data; CM = composite measures.

Annex B. Countries, regions and subregions included in International IDEA's GSoD Indices

Table B.1. List of countries included in International IDEA's GSoD Indices

Country	First Year	Last Year	Country-years
Afghanistan	1975	2021	47
Albania	1975	2021	47
Algeria	1975	2021	47
Angola	1975	2021	47
Argentina	1975	2021	47
Armenia	1991	2021	31
Australia	1975	2021	47
Austria	1975	2021	47
Azerbaijan	1991	2021	31
Bangladesh	1975	2021	47
Barbados	1975	2021	47
Belarus	1991	2021	31
Belgium	1975	2021	47
Benin	1975	2021	47
Bhutan	1975	2021	47
Bolivia	1975	2021	47
Bosnia and Herzegovina	1992	2021	30
Botswana	1975	2021	47
Brazil	1975	2021	47
Bulgaria	1975	2021	47
Burkina Faso	1975	2021	47
Burundi	1975	2021	47
Cambodia	1975	2021	47

Country	First Year	Last Year	Country-years
Cameroon	1975	2021	47
Canada	1975	2021	47
Cabo Verde	1975	2021	47
Central African Republic	1975	2021	47
Chad	1975	2021	47
Chile	1975	2021	47
China	1975	2021	47
Colombia	1975	2021	47
Comoros	1975	2021	47
Congo	1975	2021	47
Costa Rica	1975	2021	47
Côte d'Ivoire	1975	2021	47
Croatia	1991	2021	31
Cuba	1975	2021	47
Cyprus	1975	2021	47
Czechia	1975	2021	47
Democratic People's Republic of Korea	1975	2021	47
Democratic Republic of the Congo	1975	2021	47
Denmark	1975	2021	47
Djibouti	1977	2021	45
Dominican Republic	1975	2021	47
Ecuador	1975	2021	47
Egypt	1975	2021	47
El Salvador	1975	2021	47
Eritrea	1993	2021	29
Estonia	1991	2021	31
Eswatini	1975	2021	47
Ethiopia	1975	2021	47
Finland	1975	2021	47
France	1975	2021	47

Country	First Year	Last Year	Country-years
Gabon	1975	2021	47
Gambia	1975	2021	47
Georgia	1991	2021	31
German Democratic Republic	1975	1990	16
Germany	1975	2021	47
Ghana	1975	2021	47
Greece	1975	2021	47
Guatemala	1975	2021	47
Guinea	1975	2021	47
Guinea-Bissau	1975	2021	47
Guyana	1975	2021	47
Haiti	1975	2021	47
Honduras	1975	2021	47
Hungary	1975	2021	47
Iceland	1975	2021	47
India	1975	2021	47
Indonesia	1975	2021	47
Iran	1975	2021	47
Iraq	1975	2021	47
Ireland	1975	2021	47
Israel	1975	2021	47
Italy	1975	2021	47
Jamaica	1975	2021	47
Japan	1975	2021	47
Jordan	1975	2021	47
Kazakhstan	1991	2021	31
Kenya	1975	2021	47
Kosovo	2008	2021	14
Kuwait	1975	2021	47
Kyrgyzstan	1991	2021	31
Lao People's Democratic Republic	1975	2021	47

Country	First Year	Last Year	Country-years
Latvia	1991	2021	31
Lebanon	1975	2021	47
Lesotho	1975	2021	47
Liberia	1975	2021	47
Libya	1975	2021	47
Lithuania	1991	2021	31
Luxembourg	1975	2021	47
Madagascar	1975	2021	47
Malawi	1975	2021	47
Malaysia	1975	2021	47
Maldives	1975	2021	47
Mali	1975	2021	47
Malta	1975	2021	47
Mauritania	1975	2021	47
Mauritius	1975	2021	47
Mexico	1975	2021	47
Mongolia	1975	2021	47
Morocco	1975	2021	47
Mozambique	1975	2021	47
Myanmar	1975	2021	47
Namibia	1990	2021	31
Nepal	1975	2021	47
Netherlands	1975	2021	47
New Zealand	1975	2021	47
Nicaragua	1975	2021	47
Niger	1975	2021	47
Nigeria	1975	2021	47
North Macedonia	1991	2021	31
Norway	1975	2021	47
Oman	1975	2021	47
Pakistan	1975	2021	47

Country	First Year	Last Year	Country-years
Palestine	1988	2021	34
Panama	1975	2021	47
Papua New Guinea	1975	2021	47
Paraguay	1975	2021	47
Peru	1975	2021	47
Philippines	1975	2021	47
Poland	1975	2021	47
Portugal	1975	2021	47
Qatar	1975	2021	47
Republic of Korea	1975	2021	47
Republic of Moldova	1991	2021	31
Romania	1975	2021	47
Russian Federation	1975	2021	47
Rwanda	1975	2021	47
Saudi Arabia	1975	2021	47
Senegal	1975	2021	47
Serbia	1975	2021	47
Sierra Leone	1975	2021	47
Singapore	1975	2021	47
Slovakia	1993	2021	29
Slovenia	1991	2021	31
Somalia	1975	2021	47
South Africa	1975	2021	47
South Sudan	2011	2021	11
Spain	1975	2021	47
Sri Lanka	1975	2021	47
Sudan	1975	2021	47
Suriname	1975	2021	47
Sweden	1975	2021	47
Switzerland	1975	2021	47
Syrian Arab Republic	1975	2021	47

Country	First Year	Last Year	Country-years
Taiwan	1975	2021	47
Tajikistan	1991	2021	31
Tanzania	1975	2021	47
Thailand	1975	2021	47
Timor-Leste	2002	2021	20
Togo	1975	2021	47
Trinidad and Tobago	1975	2021	47
Tunisia	1975	2021	47
Turkey	1975	2021	47
Turkmenistan	1991	2021	31
Uganda	1975	2021	47
Ukraine	1991	2021	31
United Kingdom of Great Britain and Northern Ireland	1975	2021	47
United States of America	1975	2021	47
Uruguay	1975	2021	47
Uzbekistan	1991	2021	31
Vanuatu	1980	2021	42
Venezuela	1975	2021	47
Viet Nam	1975	2021	47
Yemen	1975	2021	47
Zambia	1975	2021	47
Zimbabwe	1975	2021	47

Notes: The country names in this table do not represent the official position of International IDEA with regard to the legal status of, or policy on, the entities mentioned. It is a harmonization of often-divergent lists and practices.

Table B.2. Division of countries into regions and subregions as covered by the GSod Indices

Region/subregion	Country
Africa	
East Africa	Burundi, Comoros, Djibouti, Eritrea, Ethiopia, Kenya, Rwanda, Somalia, Tanzania, Uganda
Central Africa	Cameroon, Central African Republic, Chad, Democratic Republic of the Congo, Equatorial Guinea, Gabon, Republic of Congo
Southern Africa	Angola, Botswana, Eswatini, Lesotho, Madagascar, Malawi, Mauritius, Mozambique, Namibia, South Africa, Zambia, Zimbabwe
West Africa	Benin, Burkina Faso, Cabo Verde, Côte d'Ivoire, Gambia, Ghana, Guinea, Guinea-Bissau, Liberia, Mali, Mauritania, Niger, Nigeria, Senegal, Sierra Leone, Togo
North Africa	Algeria, Egypt, Libya, Morocco, South Sudan, Sudan, Tunisia
Americas	
The Caribbean	Barbados, Cuba, Dominican Republic, Haiti, Jamaica, Trinidad and Tobago
Central America	Costa Rica, El Salvador, Guatemala, Honduras, Mexico, Nicaragua, Panama
South America	Argentina, Bolivia, Brazil, Chile, Colombia, Ecuador, Guyana, Paraguay, Peru, Suriname, Uruguay, Venezuela
North America	Canada, United States of America
Asia and the Pacific	
Central Asia	Kazakhstan, Kyrgyzstan, Tajikistan, Turkmenistan, Uzbekistan
East Asia	China, Democratic People's Republic of Korea, Japan, Mongolia, Republic of Korea, Taiwan
South Asia	Afghanistan, Bangladesh, Bhutan, India, Maldives, Nepal, Pakistan, Sri Lanka
South-East Asia	Cambodia, Indonesia, Lao People's Democratic Republic, Malaysia, Myanmar, Philippines, Singapore, Thailand, Timor-Leste, Viet Nam
Oceania	Australia, Fiji, New Zealand, Papua New Guinea, Solomon Islands, Vanuatu
Western Asia	
Western Asia	Bahrain, Iran, Iraq, Israel, Jordan, Kuwait, Lebanon, Oman, Palestine, Qatar, Saudi Arabia, Syrian Arab Republic, United Arab Emirates, Yemen
Europe	
Central Europe	Albania, Bosnia and Herzegovina, Bulgaria, Croatia, Czechia, Estonia, German Democratic Republic, Hungary, Kosovo, Latvia, Lithuania, Montenegro, North Macedonia, Poland, Romania, Serbia, Slovakia, Slovenia
Eastern Europe	Armenia, Azerbaijan, Belarus, Georgia, Republic of Moldova, Russian Federation, Ukraine
North and West Europe	Austria, Belgium, Denmark, Finland, France, Germany, Iceland, Ireland, Luxembourg, Netherlands, Norway, Sweden, Switzerland, United Kingdom of Great Britain and Northern Ireland
Southern Europe	Cyprus, Greece, Italy, Malta, Portugal, Spain, Turkey

Notes: The country names in this table do not represent the official position of International IDEA with regard to the legal status of, or policy on, the entities mentioned. It is a harmonization of often-divergent lists and practices.

Annex C. Regional organizations included in the data set

Table C.1. Regional organizations included in the data set

Regional organization	Countries
African Union (AU)	Algeria, Angola, Benin, Botswana, Burkina Faso, Burundi, Cameroon, Cabo Verde, Central African Republic, Chad, Congo, Comoros, Côte d'Ivoire, Democratic Republic of the Congo (DRC), Djibouti, Egypt, Equatorial Guinea, Eritrea, Eswatini, Ethiopia, Gabon, Gambia, Ghana, Guinea, Guinea-Bissau, Kenya, Lesotho, Liberia, Libya, Madagascar, Malawi, Mali, Mauritania, Mauritius, Morocco, Mozambique, Namibia, Niger, Nigeria, Rwanda, Senegal, Sierra Leone, Somalia, South Africa, South Sudan, Sudan, Tanzania, Togo, Tunisia, Uganda, Zambia, Zimbabwe
Association of South East Asian Nations (ASEAN)	Cambodia, Indonesia, Laos, Malaysia, Myanmar, Philippines, Singapore, Thailand, Viet Nam
European Union (EU)	Austria, Belgium, Bulgaria, Croatia, Cyprus, Czechia, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Ireland, Italy, Latvia, Lithuania, Luxembourg, Netherlands, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, United Kingdom
Organization for Economic Co-operation and Development (OECD)	Australia, Austria, Belgium, Canada, Chile, Colombia, Czechia, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Israel, Italy, Japan, Latvia, Lithuania, Luxembourg, Mexico, Netherlands, New Zealand, Norway, Poland, Portugal, Slovakia, Slovenia, Republic of Korea, Spain, Sweden, Switzerland, Turkey, United Kingdom, United States
Organization of American States (OAS)	Argentina, Barbados, Bolivia, Brazil, Canada, Chile, Colombia, Costa Rica, Dominican Republic, Ecuador, El Salvador, Guatemala, Guyana, Haiti, Honduras, Jamaica, Mexico, Nicaragua, Panama, Paraguay, Peru, Suriname, Trinidad and Tobago, United States, Uruguay, Venezuela

Annex D. Attributes, subattributes and indicators

Table D.1. Attributes, subattributes, assessment questions and empirical indicators

Attributes	Subattributes	Assessment questions	No.	Indicators
1. Representative Government	1.1. Clean Elections	To what extent are elections free from irregularities?	1.1.1	EMB autonomy
			1.1.2	EMB capacity
			1.1.3	Election other voting irregularities
			1.1.4	Election government intimidation
			1.1.5	Election free and fair
			1.1.6	Competition
	1.2. Inclusive Suffrage	To what extent do all adult citizens have voting rights?	1.2.1	Suffrage
			1.2.2	Election voter registry
	1.3. Free Political Parties	To what extent are political parties free to form and campaign for office?	1.3.1	Party ban
			1.3.2	Barriers to parties
			1.3.3	Opposition parties' autonomy
			1.3.4	Elections multiparty
			1.3.5	Competitiveness of participation
			1.3.6	Multiparty elections
	1.4. Elected Government	To what extent is access to government determined by elections?	1.4.1	Elected officials index
			1.4.2	Competitiveness of executive recruitment
			1.4.3	Openness of executive recruitment
			1.4.4	Electoral

Attributes	Subattributes	Assessment questions	No.	Indicators
2. Fundamental Rights	2.1. Access to Justice	To what extent is there equal, fair access to justice?	2.1.1	Access to justice for men
			2.1.2	Access to justice for women
			2.1.3	Judicial corruption decision
			2.1.4	Judicial accountability
			2.1.5	Fair trial
	2.2. Civil Liberties	To what extent are civil liberties respected?	Sub-component 2.2.A: Freedom of expression	
			2.2.1	Print/ broadcast censorship effort
			2.2.2	Harassment of journalists
			2.2.3	Media self-censorship
			2.2.4	Freedom of discussion for women
			2.2.5	Freedom of discussion for men
			2.2.6	Freedom of academic and cultural expression
			2.2.7	Freedom of opinion and expression
			2.2.8	Freedom of speech and press
			Sub-component 2.2.B: Freedom of association and assembly	
			2.2.9	CSO entry and exit
			2.2.10	CSO repression
			2.2.11	Freedom of peaceful assembly
			2.2.12	Freedom of association and assembly
			2.2.13	Freedom of assembly and association
			2.2.14	Worker's rights

Attributes	Subattributes	Assessment questions	No.	Indicators
			Sub-component 2.2.C: Freedom of religion	
			2.2.15	Freedom of religion
			2.2.16	Religious organization repression
			2.2.17	Freedom of thought, conscience and religion
			2.2.18	Freedom of religion
			Sub-component 2.2.D: Freedom of movement	
			2.2.19	Freedom of foreign movement
			2.2.20	Freedom of domestic movement for women
			2.2.21	Freedom of domestic movement for men
			2.2.22	Freedom of movement and residence
			2.2.23	Freedom of foreign movement
			2.2.24	Freedom of domestic movement
			Sub-component 2.2.E: Personal integrity and security	
			2.2.25	Freedom from forced labour for women
			2.2.26	Freedom from forced labour for men
			2.2.27	Freedom from torture
			2.2.28	Freedom from political killings
			2.2.29	Political terror scale
			2.2.30	Internal conflict
			2.2.31	Physical integrity rights index
	2.3. Social Rights and Equality	To what extent are basic welfare and social and political equality realized?	Sub-component 2.3.A: Social group equality	
			2.3.1	Social class equality in respect for civil liberties

Attributes	Subattributes	Assessment questions	No.	Indicators
			2.3.2	Social group equality in respect for civil liberties
			2.3.3	Power distributed by socioeconomic position
			2.3.4	Power distributed by social group
			2.3.5	Representation of disadvantaged social groups
			2.3.6	Exclusion by socio-economic group index
			2.3.7	Exclusion by political group index
			2.3.8	Exclusion by social group index
			2.3.9	Exclusion by urban-rural location index
			2.3.10	Religious/ethnic tensions
			Sub-component 2.3.B: Basic welfare	
			2.3.21	Infant mortality rate
			2.3.22	Life expectancy
			2.3.23	Kilocalories per person per day
			2.3.24	Literacy
			2.3.25	Mean years of schooling
			2.3.26	Educational equality
			2.3.27	Health equality
			Sub-component 2.3.C: Gender equality	
			2.3.31	Power distributed by gender
			2.3.32	CSO women's participation
			2.3.33	Female vs. male mean years of schooling

Attributes	Subattributes	Assessment questions	No.	Indicators
			2.3.34	Lower chamber female legislators
			2.3.35	Exclusion by gender index
			2.3.36	Women's political rights
			2.3.37	Women's ethnic rights
3. Checks on Government	3.1. Effective Parliament	To what extent does parliament oversee the executive?	3.1.1	Legislature questions officials in practice
			3.1.2	Executive oversight
			3.1.3	Legislature investigates in practice
			3.1.4	Legislature: opposition parties
			3.1.5	Executive constraints
	3.2. Judicial Independence	To what extent are the courts independent?	3.2.1	High Court independence
			3.2.2	Lower Court independence
			3.2.3	Compliance with higher court
			3.2.4	Compliance with judiciary
			3.2.5	Law and order
			3.2.6	Independent judiciary
	3.3. Media Integrity	To what extent are there diverse, critical media?	3.3.1	Critical print/broadcast media
			3.3.2	Print/broadcast media perspectives
			3.3.3	Media bias
			3.3.4	Media corrupt
			3.3.5	Media freedom
4. Impartial Administration	4.1. Absence of Corruption	To what extent is the exercise of public authority free from corruption?	4.1.1	Public sector: corrupt exchanges
			4.1.2	Public sector theft
			4.1.3	Executive embezzlement and theft

Attributes	Subattributes	Assessment questions	No.	Indicators
	4.2. Predictable Enforcement	To what extent is the enforcement of public authority predictable?	4.1.4	Executive bribery and corrupt exchanges
			4.1.5	Corruption
			4.2.1	Executive respects constitution
			4.2.2	Transparent laws with predictable enforcement
			4.2.3	Rigorous and impartial public administration
			4.2.4	Criteria for appointment decisions in the state administration
			4.2.5	Criteria for appointment decisions in the armed forces
			4.2.6	Bureaucratic quality
5. Participatory Engagement	5.1. Civil Society participation	To what extent do people participate in civil society organizations?	5.1.1	CSO participatory environment
			5.1.2	Engaged society
			5.1.3	CSO consultation
			5.1.4	Engagement in independent non-political associations
			5.1.5	Engagement in independent political associations
			5.1.6	Engagement in independent trade unions
	5.2. Electoral Participation	To what extent do people participate in national elections?	5.2.1	Election voting age population (VAP) turnout
	5.3. Direct Democracy	To what extent are mechanisms of direct democracy available and used?	5.3.1	Direct popular vote index
			5.3.2	Electoral
	5.4. Local Democracy	To what extent are there freely elected, influential local governments?	5.4.1	Local government index
			5.4.2	Subnational elections free and fair

OVERVIEW OF INDICATORS AND SOURCES

1. REPRESENTATIVE GOVERNMENT

1.1. Indicators of Clean Elections

No.	Indicator	Description/question	Data set
1.1.1	EMB autonomy (v2elembaut)	ES: Does the election management body (EMB) have autonomy from government to apply election laws and administrative rules impartially in national elections?	V-Dem
1.1.2	EMB capacity (v2elembcap)	ES: Does the Election Management Body (EMB) have sufficient staff and resources to administer a well-run national election?	V-Dem
1.1.3	Election other voting irregularities (v2elirreg)	ES: In this national election, was there evidence of other intentional irregularities by incumbent and/or opposition parties and/or vote fraud?	V-Dem
1.1.4	Election government intimidation (v2elintim)	ES: In this national election, were opposition candidates/parties/campaign workers subjected to repression, intimidation, violence or harassment by the government, the ruling party or their agents?	V-Dem
1.1.5	Election free and fair (v2elfrfair)	ES: Taking all aspects of the pre-election period, election day and the post-election process into account, would you consider this national election to be free and fair?	V-Dem
1.1.6	Competition (competitive elections)	IC: The chief executive offices and seats in the effective legislative body are filled by elections characterized by uncertainty, meaning that the elections are, in principle, sufficiently free to enable the opposition to gain power if they were to attract sufficient support from the electorate.	LIED

Note: ES = expert surveys; IC = standards-based in-house coding.

1.2. Indicators of Inclusive Suffrage

No.	Indicator	Description/question	Data set
1.2.1	Suffrage (v2elsuffrage)	OD: What percentage (%) of adult citizens (as defined by statute) has the legal right to vote in national elections?	V-Dem
1.2.2	Election voter registry (v2elrgstry)	ES: In this national election, was there a reasonably accurate voter registry in place and was it used?	V-Dem

Note: ES = expert surveys; OD = observational data.

1.3. Indicators of Free Political Parties

No.	Indicator	Description/question	Data set
1.3.1	Party ban (v2psparban)	ES: Are any parties banned?	V-Dem
1.3.2	Barriers to parties (v2psbars)	ES: How restrictive are the barriers to forming a party?	V-Dem
1.3.3	Opposition parties' autonomy (v2psoppaut)	ES: Are opposition parties independent and autonomous of the ruling regime?	V-Dem
1.3.4	Elections multiparty (v2elmulpar)	ES: Was this national election multiparty?	V-Dem
1.3.5	Competitiveness of participation (parcomp)	IC: The competitiveness of participation refers to the extent to which alternative preferences for policy and leadership can be pursued in the political arena.	Polity
1.3.6	Multiparty elections (multiparty legislative elections)	OD: The lower house (or unicameral chamber) of the legislature is (at least in part) elected by voters facing more than one choice. Specifically, parties are not banned and (a) more than one party is allowed to compete or (b) elections are nonpartisan (i.e., all candidates run without party labels).	LIED

Note: ES = expert surveys; IC = standards-based in-house coding; OD = observational data.

1.4. Indicators of Elected Government

No.	Indicator	Description/question	Data set
1.4.1	Elected officials index (v2x_elecoff)	CM: Are the chief executive and legislature appointed through popular elections? Measure based on 16 variables from expert survey data, in-house coded data and observational data collected by V-Dem.*	V-Dem
1.4.2	Competitiveness of executive recruitment (xrcomp)	IC: Competitiveness refers to the extent that prevailing modes of advancement give subordinates equal opportunities to become superordinates.	Polity
1.4.3	Openness of executive recruitment (xropen)	IC: Recruitment of the chief executive is 'open' to the extent that all the politically active population has an opportunity, in principle, to attain the position through a regularized process.	Polity
1.4.4	Electoral	IC: Does a country have no regular elections, elections in an effectively one-party state, elections with opposition parties but without an actual chance of government change, or full democracy?	Bjørnskov and Rode

Note: IC = standards-based in-house coding; CM = composite measures.

* The 16 variables are: legislature bicameral; lower chamber elected; upper chamber elected; percentage of indirectly elected legislators lower chamber; percentage of indirectly elected legislators upper chamber; head of state selection by legislature in practice; head of state appointment in practice; head of government selection by legislature in practice; head of government appointment in practice; head of state appoints cabinet in practice; head of government appoints cabinet in practice; head of state dismisses ministers in practice; head of government dismisses ministers in practice; head of state the same as head of government; chief executive appointment by upper chamber implicit approval; and chief executive appointment by upper chamber.

2. FUNDAMENTAL RIGHTS (INDIVIDUAL LIBERTIES AND RESOURCES)

2.1. Indicators of Access to Justice

No.	Indicator	Description/question	Data set
2.1.1	Access to justice for men (v2clacjstm)	ES: Do men enjoy secure and effective access to justice?	V-Dem
2.1.2	Access to justice for women (v2clacjstw)	ES: Do women enjoy equal, secure and effective access to justice?	V-Dem
2.1.3	Judicial corruption decision (v2jucorrdc)	ES: How often do individuals or businesses make undocumented extra payments or bribes in order to speed up or delay the process or to obtain a favourable judicial decision?	V-Dem
2.1.4	Judicial accountability (v2juacct)	ES: When judges are found responsible for serious misconduct, how often are they removed from their posts or otherwise disciplined?	V-Dem
2.1.5	Fair trial (fairtrial)	IC: Extent to which citizens have the right to a fair trial in practice, that is, they are not subjected to arbitrary arrest, detention or exile; they have the right to recognition as a person before the law, the right to be under the jurisdiction of, and to seek redress from, competent, independent and impartial tribunals, and the right to be heard and to be entitled to trial without undue delays if arrested, detained or charged with a criminal offence.	CLD

Note: ES = expert surveys; IC = standards-based in-house coding.

2.2. Indicators of Civil Liberties

No.	Indicator	Description/question	Data set
Freedom of expression			
2.2.1	Print/broadcast censorship effort (v2mecenefm)	ES: Does the government directly or indirectly attempt to censor the print or broadcast media?	V-Dem
2.2.2	Harassment of journalists (v2meharjrn)	ES: Are individual journalists harassed, i.e. threatened with libel, arrested, imprisoned, beaten or killed, by governmental or powerful non-governmental actors while engaged in legitimate journalistic activities?	V-Dem
2.2.3	Media self-censorship (v2meslfcen)	ES: Is there self-censorship among journalists when reporting on issues that the government considers politically sensitive?	V-Dem
2.2.4	Freedom of discussion for women (v2cldiscw)	ES: Are women able to openly discuss political issues in private homes and in public spaces?	V-Dem
2.2.5	Freedom of discussion for men (v2cldiscm)	ES: Are men able to openly discuss political issues in private homes and in public spaces?	V-Dem
2.2.6	Freedom of academic and cultural expression (v2clacfree)	ES: Is there academic freedom and freedom of cultural expression related to political issues?	V-Dem

2.2. Indicators of Civil Liberties (cont.)

No.	Indicator	Description/question	Data set
Freedom of expression (cont.)			
2.2.7	Freedom of opinion and expression (freexp)	IC: The extent to which individual citizens, groups and the media have freedom of opinion and expression, that is, the right of the citizens, groups and the press to hold views freely and to seek, obtain and pass on information on political issues broadly understood without being subject to actual limitations or restrictions.	CLD
2.2.8	Freedom of speech and press (speech)	IC: Government censorship and/or ownership of the media (including radio, TV, Internet, and/or domestic news agencies) is: Complete; Some; None	CIRIGHTS
Freedom of association and assembly			
2.2.9	CSO entry and exit (v2cseeorgs)	ES: To what extent does the government achieve control over entry and exit by civil society organizations into public life?	V-Dem
2.2.10	CSO repression (v2csreprss)	ES: Does the government attempt to repress civil society organizations?	V-Dem
2.2.11	Freedom of peaceful assembly (v2caassemb)	ES: To what extent do state authorities respect and protect the right of peaceful assembly?	V-Dem
2.2.12	Freedom of association and assembly (freass)	IC: The extent to which individuals and groups have freedom of assembly and association, that is, the right of the citizens to gather freely and carry out peaceful demonstrations as well as to join, form and participate with other persons in political parties, cultural organizations, trade unions or the like of their choice without being subject to actual limitations or restrictions.	CLD
2.2.13	Freedom of assembly and association (assn)	IC: Citizens' rights to freedom of assembly and association are severely restricted or denied completely to all citizens; limited for all citizens or severely restricted or denied for select groups; virtually unrestricted and freely enjoyed by practically all citizens.	CIRIGHTS
2.2.14	Workers' rights (worker)	IC: Workers' rights of association and collective bargaining are severely restricted; somewhat restricted; fully protected.	CIRIGHTS
Freedom of religion			
2.2.15	Freedom of religion (v2clrelig)	ES: Is there freedom of religion?	V-Dem
2.2.16	Religious organization repression (v2csrlgprep)	ES: Does the government attempt to repress religious organizations?	V-Dem
2.2.17	Freedom of thought, conscience and religion (frerel)	IC: The extent to which individuals and groups have freedom of thought, conscience and religion, that is, the right of citizens to have and change religion or belief of their own volition and alone or in community, manifest their religion or belief in practice, worship, observance and teaching in private or public, as well as proselytize peacefully without being subject to actual limitations or restrictions.	CLD
2.2.18	Freedom of religion (rel_free)	Government restrictions on religious practices are severe and widespread; moderate; practically absent.	CIRIGHTS

2.2. Indicators of Civil Liberties (cont.)

No.	Indicator	Description/question	Data set
Freedom of movement			
2.2.19	Freedom of foreign movement (v2clfmov)	ES: Is there freedom of foreign travel and emigration?	V-Dem
2.2.20	Freedom of domestic movement for women (v2cldmovew)	ES: Do women enjoy freedom of movement within the country?	V-Dem
2.2.21	Freedom of domestic movement for men (v2cldmovem)	ES: Do men enjoy freedom of movement within the country?	V-Dem
2.2.22	Freedom of movement and residence (fremov)	IC: The extent to which individuals and groups have freedom of movement and residence, that is, the right of citizens to settle and travel within their country as well as to leave and return to their country of without being subject to actual limitations or restrictions.	CLD
2.2.23	Freedom of foreign movement (formov)	IC: Foreign movement and travel is severely restricted; somewhat restricted; unrestricted.	CIRIGHTS
2.2.24	Freedom of domestic movement (dommov)	IC: Domestic travel is severely restricted; somewhat restricted; unrestricted.	CIRIGHTS
Personal integrity and security			
2.2.25	Freedom from forced labour for women (v2clslavef)	ES: Are adult women free from servitude and other kinds of forced labour?	V-Dem
2.2.26	Freedom from forced labour for men (v2clslavem)	ES: Are adult men free from servitude and other kinds of forced labour?	V-Dem
2.2.27	Freedom from torture (v2cltort)	ES: Is there freedom from torture?	V-Dem
2.2.28	Freedom from political killings (v2clkill)	ES: Is there freedom from political killings?	V-Dem
2.2.29	Political terror scale (PTSsd)	IC: What is the level of political violence and terror?	Gibney et al.
2.2.30	Internal conflict (D)	ES: Is there political violence in the country? The rating assigned is the sum of three sub-components: civil war/coup threat, terrorism/political violence and civil disorder	ICRG
2.2.31	Physical integrity rights index (physint)	IC: Additive Index ranging from 0 (no government respect for the prohibition of torture, extrajudicial killing, political imprisonment and disappearance) to 8 (full government respect for these four rights).	CIRIGHTS

Note: ES = expert surveys; IC = standards-based in-house coding.

2.3. Indicators of Social Rights and Equality

No.	Indicator	Description/question	Data set
Social group equality			
2.3.1	Social class equality in respect for civil liberties (v2clacjust)	ES: Do poor people enjoy the same level of civil liberties as rich people?	V-Dem
2.3.2	Social group equality in respect for civil liberties (v2clsocgrp)	ES: Do all social groups, as distinguished by language, ethnicity, religion, race, region or caste, enjoy the same level of civil liberties, or are some groups generally in a more favourable position?	V-Dem
2.3.3	Power distributed by socio-economic position (v2pepwrse)	ES: Is political power distributed according to socio-economic position?	V-Dem
2.3.4	Power distributed by social group (v2pepwrsoc)	ES: Is political power distributed according to social groups?	V-Dem
2.3.5	Representation of disadvantaged social groups (v2lgdsadlo)	ES: Considering all disadvantaged social groups in the country, how well represented are these groups, as a whole, in the national legislature?	V-Dem
2.3.6	Exclusion by socio-economic Group (v2xpe_exlecon)	ES: Index of political exclusion by socio-economic group.	V-Dem
2.3.7	Exclusion by political group index (v2xpe_exlpol)	ES: Index of political exclusion by political group	V-Dem
2.3.8	Exclusion by social group index (v2xpe_exlsocgr)	ES: Index of political exclusion by social group	V-Dem
2.3.9	Exclusion by urban-rural location index (v2xpe_exlgeo)	ES: Index of political exclusion by urban-rural location	V-Dem
2.3.10	Religious/ethnic tensions	IC: What is the degree of tension within a country attributable to religious divisions, domination, or suppression? What is the degree of tension within a country attributable to racial, nationality, or language divisions?	ICRG
Basic welfare			
2.3.11	Infant mortality rate	OD	UN statistics
2.3.12	Life expectancy	OD	UN statistics
2.3.13	Kilocalories per person per day	OD	FAO
2.3.14	Literacy	OD	UNESCO

2.3. Indicators of Social Rights and Equality (cont.)

No.	Indicator	Description/question	Data set
Basic welfare (cont.)			
2.3.15	Mean years of schooling	OD	GHDx
2.3.16	Educational equality (v2peedueq)	ES: To what extent is high quality basic education guaranteed to all, sufficient to enable them to exercise their basic rights as adult citizens?	V-Dem
2.3.17	Health equality (v2pehealth)	ES: To what extent is high quality basic health care guaranteed to all, sufficient to enable them to exercise their basic political rights as adult citizens?	V-Dem
Gender equality			
2.3.18	Power distributed by gender (v2pepwrgen)	ES: Is political power distributed according to gender?	V-Dem
2.3.19	CSO women's participation (v2csgender)	ES: Are women prevented from participating in civil society organizations?	V-Dem
2.3.20	Female vs. male mean years of schooling	OD	GHDx
2.3.21	Lower chamber female legislators (v2lgfemleg)	OD	V-Dem
2.3.22	Exclusion by gender index (v2xpe_exlgender)	ES: Index of political exclusion by gender	V-Dem
2.3.23	Women's political rights (wopol)	IC: How extensive are laws pertaining to women's political rights (right to vote, to run for political office, to hold elected and appointed government positions, to join political parties, to petition government officials); how effectively does the government enforce the laws?	CIRIGHTS
2.3.24	Women's economic rights (wecon)	IC: How extensive are laws pertaining to women's economic rights equal pay for equal work, free choice of profession, right to gainful employment, non-discrimination etc.); how effectively does the government enforce the laws?	CIRIGHTS

Note: ES = expert surveys; IC = standards-based in-house coding; OD = observational data.

3. CHECKS ON GOVERNMENT (EFFECTIVE CONTROL OF EXECUTIVE POWER)

3.1. Indicators of Effective Parliament

No.	Indicator	Description/question	Data set
3.1.1	Legislature questions officials in practice (v2lgqstexp)	ES: In practice, does the legislature routinely question executive branch officials?	V-Dem
3.1.2	Executive oversight (v2lgotovst)	ES: If executive branch officials were engaged in unconstitutional, illegal or unethical activity, how likely is it that a body other than the legislature, such as a comptroller general, general prosecutor or ombudsman, would question or investigate them and issue an unfavourable decision or report?	V-Dem
3.1.3	Legislature investigates in practice (v2lginvstp)	ES: If the executive were engaged in unconstitutional, illegal or unethical activity, how likely is it that a legislative body (perhaps a whole chamber, perhaps a committee, whether aligned with government or opposition) would conduct an investigation that would result in a decision or report that is unfavourable to the executive?	V-Dem
3.1.4	Legislature opposition parties (v2lgoppart)	ES: Are opposition parties (those not in the ruling party or coalition) able to exercise oversight and investigatory functions against the wishes of the governing party or coalition?	V-Dem
3.1.5	Executive constraints (xconst)	IC: The extent of institutionalized constraints on the decision-making powers of chief executives, whether individuals or collectivities.	Polity

Note: ES = expert surveys; IC = standards-based in-house coding.

3.2. Indicators of Judicial Independence

No.	Indicator	Description/question	Data set
3.2.1	High Court independence (v2juhcind)	ES: When the High Court in the judicial system is ruling in cases that are salient to the government, how often would you say that it makes decisions that merely reflect government wishes regardless of its sincere view of the legal record?	V-Dem
3.2.2	Lower court independence (v2juncind)	ES: When judges not on the High Court are ruling in cases that are salient to the government, how often would you say that their decisions merely reflect government wishes regardless of their sincere view of the legal record?	V-Dem
3.2.3	Compliance with High Court (v2juhccomp)	ES: How often would you say the government complies with important decisions of the High Court with which it disagrees?	V-Dem
3.2.4	Compliance with judiciary (v2jucomp)	ES: How often would you say the government complies with important decisions by other courts with which it disagrees?	V-Dem
3.2.5	Law and order	IC: To what extent is the legal system strong and impartial and to what degree is there popular observance of the law?	ICRG
3.2.6	Independent Judiciary (injud)	IC: The extent to which the judiciary is not independent; partially independent; generally independent of control from other sources, such as another branch of the government or the military.	CIRIGHTS

Note: ES = expert surveys; IC = standards-based in-house coding; OD = observational data; CM = composite measures.

3.3. Indicators of Media Integrity

No.	Indicator	Description/question	Data set
3.3.1	Print/broadcast media critical (v2mecrit)	ES: Of the major print and broadcast outlets, how many routinely criticize the government?	V-Dem
3.3.2	Print/broadcast media perspectives (v2merange)	ES: Do the major print and broadcast media represent a wide range of political perspectives?	V-Dem
3.3.3	Media bias (v2mebias)	ES: Is there media bias against opposition parties or candidates?	V-Dem
3.3.4	Media corrupt (v2mecorrupt)	ES: Do journalists, publishers or broadcasters accept payments in exchange for altering news coverage?	V-Dem
3.3.5	Media freedom	IC: Is criticism of government and government officials a common and normal part of the political dialogue in the mediated public sphere?	Media Freedom Data

Note: ES = expert surveys; IC = standards-based in-house coding.

4. IMPARTIAL ADMINISTRATION (FAIR AND PREDICTABLE PUBLIC ADMINISTRATION)

4.1. Indicators of Absence of Corruption

No.	Indicator	Description/question	Data set
4.1.1	Public sector corrupt exchanges (v2excrtps)	ES: How routinely do public sector employees grant favours in exchange for bribes, kickbacks or other material inducements?	V-Dem
4.1.2	Public sector theft (v2exthtfts)	ES: How often do public sector employees steal, embezzle or misappropriate public funds or other state resources for personal or family use?	V-Dem
4.1.3	Executive embezzlement and theft (v2exembezt)	ES: How often do members of the executive (the head of state, the head of government and cabinet ministers) or their agents steal, embezzle or misappropriate public funds or other state resources for personal or family use?	V-Dem
4.1.4	Executive bribery and corrupt exchanges (v2exbribe)	ES: How routinely do members of the executive (the head of state, the head of government and cabinet ministers) or their agents grant favours in exchange for bribes, kickbacks or other material inducements?	V-Dem
4.1.5	Corruption (F)	ES: How widespread is actual or potential corruption in the form of excessive patronage, nepotism, job reservations, 'favour-for-favours', secret party funding or suspiciously close ties between politics and business?	ICRG

Note: ES = expert surveys.

4.2. Indicators of Predictable Enforcement

No.	Indicator	Description/question	Data set
4.2.1	Executive respects constitution (v2exrescon)	ES: Do members of the executive (the head of state, the head of government and cabinet ministers) respect the constitution?	V-Dem
4.2.2	Transparent laws with predictable enforcement (v2cltrnslw)	ES: Are the laws of the land clear, well-publicized, coherent (consistent with each other), relatively stable from year to year and enforced in a predictable manner?	V-Dem
4.2.3	Rigorous and impartial public administration (v2clrspct)	ES: Are public officials rigorous and impartial in the performance of their duties?	V-Dem
4.2.4	Criteria for appointment decisions in the state administration (v2stcritrecadm)	To what extent are appointment decisions in the state administration based on personal and political connections, as opposed to skills and merit?	V-Dem
4.2.5	Criteria for appointment decisions in the armed forces (v2stcritapparm)	To what extent are appointment decisions in the armed forces based on personal or political connections or alternatively based on skills and merit?	V-Dem
4.2.6	Bureaucratic quality (L)	ES: Bureaucracy has the strength and expertise to govern without drastic changes in policy or interruptions in government services.	ICRG

Note: ES = expert surveys.

5. PARTICIPATORY ENGAGEMENT (INSTRUMENTS FOR AND REALIZATION OF POLITICAL INVOLVEMENT)

5.1. Indicators of Civil Society Participation

No.	Indicator	Description/question	Data set
5.1.1	CSO participatory environment (v2csprtcpt)	ES: Are people involved in civil society organizations?	V-Dem
5.1.2	Engaged society (v2dlengage)	ES: When important policy changes are being considered, how wide and how independent are public deliberations?	V-Dem
5.1.3	CSO consultation (v2csnsult)	ES: Are major civil society organizations (CSOs) routinely consulted by policymakers on policies relevant to their members?	V-Dem
5.1.4	Engagement in independent non-political associations (v2canonpol)	What share of the population is regularly active in independent non-political associations, such as sports clubs, literary societies, charities, fraternal groups, or support groups?	V-Dem

5.1. Indicators of Civil Society Participation (cont.)

No.	Indicator	Description/question	Data set
5.1.5	Engagement in independent political associations (v2capolit)	What share of the population is regularly active in independent political interest associations, such as environmental associations, animal rights groups, or LGBT rights groups?	V-Dem
5.1.6	Engagement in independent trade unions (v2catrauni)	What share of the population is regularly active in independent trade unions?	V-Dem

Note: ES = expert surveys.

5.2. Indicators of Electoral Participation

No.	Indicator	Description/question	Data set
5.2.1	Election VAP turnout (v2elvaptrn)	OD	V-Dem

Note: OD = observational data.

5.3 Indicators of Direct Democracy

No.	Indicator	Description/question	Data set
5.3.1	Direct popular vote index (v2xdd_dd)	CM: Measure based on 12 observable variables from V-Dem, resulting from the combination of scores for each type of popular vote (i.e. popular initiatives, referendums, plebiscites and obligatory referendums). The measure captures how easy it is to initiate and approve each type of popular vote and how consequential that vote is (if approved). Ease of initiation is measured by the existence of a direct democratic process, the number of signatures needed and the time limit to collect signatures. Ease of approval is measured by quorums pertaining to participation, approval, supermajority and district majority. Consequences are measured by the legal status of the decision made by citizens (binding or consultative) and the frequency with which direct popular votes have been used and approved in the past.	V-Dem

Note: IC = standards-based in-house coding; CM = composite measures.

5.4. Indicators of Local Democracy

No.	Indicator	Description/question	Data set
5.4.1	Local government index (v2xel_locelec)	CM: Are there elected local governments, and if so to what extent can they operate without interference from unelected bodies at the local level?	V-Dem
5.4.2	Subnational elections free and fair (v2elffelr)	ES: Taking all aspects of the pre-election period, election day and the post-election process into account, would you consider subnational elections (regional and local, as previously identified) to be free and fair on average?	V-Dem

Note: ES = expert surveys; CM = composite measures.

SUMMARY OF INDICATORS

ID	Indicator	Data set	Variable	Missing (N)	Missing (%)	Year (min)	Year (max)
1.1.1	EMB autonomy	V-Dem	v2elembaut	0	0.0%	1975	2021
1.1.2	EMB capacity	V-Dem	v2elembcap	0	0.0%	1975	2021
1.1.3	Election: other voting irregularities	V-Dem	v2elirreg	64	0.84%	1975	2021
1.1.4	Election government intimidation	V-Dem	v2elintim	64	0.84%	1975	2021
1.1.5	Election free and fair	V-Dem	v2elfrfair	64	0.84%	1975	2021
1.1.6	Competition	LIED	competitive elections	1	0.00%	1975	2021
1.2.1	Suffrage	V-Dem	v2elsuffrage	0	0.00%	1975	2021
1.2.2	Election voter registry	V-Dem	V2elrgstry	64	0.84%	1975	2021
1.3.1	Party ban	V-Dem	v2psparban	0	0.00%	1975	2021
1.3.2	Barriers to parties	V-Dem	v2psbars	0	0.00%	1975	2021
1.3.3	Opposition parties' autonomy	V-Dem	v2psoppaut	193	2.52%	1975	2021
1.3.4	Elections multiparty	V-Dem	v2elmulpar	64	0.84%	1975	2021
1.3.5	Competitiveness of participation	Polity	parcomp	566	7.93%	1975	2021
1.3.6	Multiparty elections	LIED	multiparty legislative elections	1	0.00%	1975	2021
1.4.1	Elected officials index	V-Dem	v2x_elecoff	0	0.00%	1975	2021
1.4.2	Competitiveness of executive recruitment	Polity	xrcomp	566	7.93%	1975	2021
1.4.3	Openness of executive recruitment	Polity	xropen	566	7.93%	1975	2021
1.4.4	Electoral	BRRD	Electoral	1	0.00%	1975	2021
2.1.1	Access to justice for men	V-Dem	v2clacjstm	0	0.00%	1975	2021
2.1.2	Access to justice for women	V-Dem	v2clacjstw	0	0.00%	1975	2021

ID	Indicator	Data set	Variable	Missing (N)	Missing (%)	Year (min)	Year (max)
2.1.3	Judicial corruption decision	V-Dem	v2jucorrdc	30	0.39%	1975	2021
2.1.4	Judicial accountability	V-Dem	v2juacct	0	0.00%	1975	2021
2.1.5	Fair trial	CLD	fairtrial	0	0.00%	1975	2021
2.2.1	Print/broadcast censorship	V-Dem	v2mecenefm	0	0.00%	1975	2021
2.2.2	Harassment of journalists	V-Dem	v2meharjrn	0	0.00%	1975	2021
2.2.3	Media self-censorship	V-Dem	v2meslfcen	0	0.00%	1975	2021
2.2.4	Freedom of discussion for women	V-Dem	v2cldiscw	0	0.00%	1975	2021
2.2.5	Freedom of discussion for men	V-Dem	v2cldiscm	0	0.00%	1975	2021
2.2.6	Freedom of academic and cultural expression	V-Dem	v2clacfree	0	0.00%	1975	2021
2.2.7	Freedom of opinion and expression	CLD	freexp	0	0.00%	1975	2021
2.2.8	Freedom of speech and press	CIRIGHTS	speech	1281	16.73%	1981	2021
2.2.9	CSO entry and exit	V-Dem	v2cseeorgs	0	0.00%	1975	2021
2.2.10	CSO repression	V-Dem	v2csreprss	0	0.00%	1975	2021
2.2.11	Freedom of peaceful assembly	V-Dem	v2caassemb	41	0.53%	1981	2021
2.2.12	Freedom of association and assembly	CLD	freass	0	0.00%	1975	2021
2.2.13	Freedom of assembly and association	CIRIGHTS	assn	1285	16.78%	1981	2021
2.2.14	Workers' rights	CIRIGHTS	worker	1283	16.76%	1981	2021
2.2.15	Freedom of religion	V-Dem	v2clrelig	0	0.00%	1975	2021
2.2.16	Religious organization repression	V-Dem	v2csrlgprep	0	0.00%	1975	2021
2.2.17	Freedom of thought, conscience and religion	CLD	frerel	0	0.00%	1975	2021

ID	Indicator	Data set	Variable	Missing (N)	Missing (%)	Year (min)	Year (max)
2.2.18	Freedom of religion	CIRIGHTS	rel_free	1060	13.84%	1981	2021
2.2.19	Freedom of foreign movement	V-Dem	v2clfmov	0	0.00%	1975	2021
2.2.29	Freedom of domestic movement for women	V-Dem	v2cldmovew	0	0.00%	1975	2021
2.2.21	Freedom of domestic movement for men	V-Dem	v2cldmovem	0	0.00%	1975	2021
2.2.22	Freedom of movement and residence	CLD	fremov	0	0.00%	1975	2021
2.2.23	Freedom of foreign movement	CIRIGHTS	formov	1057	13.80%	1981	2021
2.2.24	Freedom of domestic movement	CIRIGHTS	dommov	1058	13.82%	1981	2021
2.2.25	Freedom from forced labour for women	V-Dem	v2clslavew	0	0.00%	1975	2021
2.2.26	Freedom from forced labour for men	V-Dem	v2clslavem	0	0.00%	1975	2021
2.2.27	Freedom from torture	V-Dem	v2cltort	0	0.00%	1975	2021
2.2.28	Freedom from political killings	V-Dem	v2clkill	0	0.00%	1975	2021
2.2.29	Political terror scale	PTS	PTS	312	4.07%	1975	2021
2.2.30	Internal conflict	ICRG	D	2653	34.65%	1984	2021
2.2.31	Physical integrity rights index	CIRIGHTS	physint	1306	17.06%	1981	2021
2.3.1	Social class equality in respect for civil liberties	V-Dem	v2clacjust	0	0.00%	1975	2021
2.3.2	Social group equality in respect for civil liberties	V-Dem	v2clsocgrp	0	0.00%	1975	2021
2.3.3	Power distributed by socio-economic position	V-Dem	v2pepwrses	0	0.00%	1975	2021

ID	Indicator	Data set	Variable	Missing (N)	Missing (%)	Year (min)	Year (max)
2.3.4	Power distributed by social group	V-Dem	v2pepwrSOC	0	0.00%	1975	2021
2.3.5	Representation of disadvantaged social groups	V-Dem	v2lgdsadlo	571	7.46%	1975	2021
2.3.6	Exclusion by socio-economic group index	V-Dem	v2xpe_exlecon	17	0.22%	1975	2021
2.3.7	Exclusion by political group index	V-Dem	v2xpe_exlpol	37	0.44%	1975	2021
2.3.8	Exclusion by social group index	V-Dem	v2xpe_exlsocgr	32	0.42%	1975	2021
2.3.9	Exclusion by urban-rural location index	V-Dem	v2xpe_exlgeo	32	0.42%	1975	2021
2.3.10	Religious/ethnic tensions	ICRG	---	2653	34.65%	1984	2021
2.3.11	Infant mortality rate	UN statistics	---	150	1.96%	1975	2021
2.3.12	Life expectancy	UN statistics	---	81	1.06%	1975	2021
2.3.13	Kilocalories per person per day	FAO	---	823	10.75%	1975	2021
2.3.14	Literacy	UNESCO	---	2811	36.71%	1975	2021
2.3.15	Mean years of schooling	GHDx	---	30	0.39%	1975	2021
2.3.16	Educational equality	V-Dem	v2peedueq	0	0.00%	1975	2021
2.3.17	Health equality	V-Dem	v2pehealth	0	0.00%	1975	2021
2.3.18	Power distributed by gender	V-Dem	v2pepwrGEN	0	0.00%	1975	2021
2.3.19	CSO women's participation	V-Dem	v2csgender	0	0.00%	1975	2021
2.3.20	Female vs. male mean years of schooling	GHDx	—	30	0.39%	1975	2021
2.3.21	Lower chamber female legislators	V-Dem	v2lgfemleg	657	8.58%	1975	2021
2.3.22	Exclusion by gender	V-Dem	v2xpe_exlgender	17	0.22%	1975	2021
2.3.23	Women's political rights	CIRIGHTS	wopol	1297	16.94%	1981	2021

ID	Indicator	Data set	Variable	Missing (N)	Missing (%)	Year (min)	Year (max)
2.3.24	Women's ethnic rights	CIRIGHTS	wecon	1346	17.58%	1981	2021
3.1.1	Legislature questions officials in practice	V-Dem	v2lgqstexp	178	2.32%	1975	2021
3.1.2	Executive oversight	V-Dem	v2lgotovst	34	0.44%	1975	2021
3.1.3	Legislature investigates in practice	V-Dem	v2lginvstp	38	0.50%	1975	2021
3.1.4	Legislature opposition parties	V-Dem	v2lgoppart	175	2.28%	1975	2021
3.1.5	Executive constraints	Polity	xconst	566	7.39%	1975	2021
3.2.1	High Court independence	V-Dem	v2juhcind	27	0.35%	1975	2021
3.2.2	Lower court independence	V-Dem	v2juncind	0	0.00%	1975	2021
3.2.3	Compliance with High Court	V-Dem	v2juhccomp	30	0.39%	1975	2021
3.2.4	Compliance with judiciary	V-Dem	v2jucomp	30	0.39%	1975	2021
3.2.5	Law and order	ICRG	---	2653	34.65%	1975	2021
3.2.6	Independent judiciary	CIRIGHTS	injud	1082	14.13%	1981	2021
3.3.1	Print/broadcast media critical	V-Dem	v2mecrit	0	0.00%	1975	2021
3.3.2	Print/broadcast media perspectives	V-Dem	v2merange	0	0.00%	1975	2021
3.3.3	Media bias	V-Dem	v2mebias	0	0.00%	1975	2021
3.3.4	Media corrupt	V-Dem	v2mecorrpt	0	0.00%	1975	2021
3.3.5	Media freedom	MFD	---	369	4.82%	1975	2021
4.1.1	Public sector corrupt exchanges	V-Dem	v2excrptps	0	0.00%	1975	2021
4.1.2	Public sector theft	V-Dem	v2exthtfts	0	0.00%	1975	2021
4.1.3	Executive embezzlement and theft	V-Dem	v2exembez	0	0.00%	1975	2021
4.1.4	Executive bribery and corrupt exchanges	V-Dem	v2exbribe	0	0.00%	1975	2021

ID	Indicator	Data set	Variable	Missing (N)	Missing (%)	Year (min)	Year (max)
4.1.5	Corruption	ICRG	F	2653	34.65%	1984	2021
4.2.1	Executive respects constitution	V-Dem	v2exrescon	0	0.00%	1975	2021
4.2.2	Transparent laws with predictable enforcement	V-Dem	v2cltrnslw	0	0.00%	1975	2021
4.2.3	Rigorous and impartial public administration	V-Dem	v2cltrspct	0	0.00%	1975	2021
4.2.4	Criteria for appointment decisions in the state administration	V-Dem	v2st-critrecadm	270	3.53%		
4.2.5	Criteria for appointment decisions in the armed forces	V-Dem	v2stcritap-parm	286	3.73%		
4.2.6	Bureaucratic quality	ICRG	L	2653	34.65%	1984	2021
5.1.1	CSO participatory environment	V-Dem	v2csprtcpt	0	0.00%	1975	2021
5.1.2	Engaged society	V-Dem	v2dlengage	0	0.00%	1975	2021
5.1.3	CSO consultation	V-Dem	V2csnsult	0	0.00%	1975	2021
5.1.4	Engagement in independent non-political associations	V-Dem	v2canonpol	107	1.40%		
5.1.5	Engagement in independent political associations	V-Dem	v2capolit	119	1.55%		
5.1.6	Engagement in independent trade unions	V-Dem	v2catrauni	82	1.07%		
5.2.1	Election: VAP turnout	V-Dem/ IDEA	v2elvaptrn	1480	19.22%	1975	2021
5.3.1	Direct popular vote index	V-Dem	v2xdd_dd	0	0.00%	1975	2021
5.4.1	Local government index	V-Dem	v2xel_locelec	172	2.25%	1975	2021
5.4.2	Subnational elections free and fair	V-Dem	v2elffelr	947	13.24%	1975	2021

Annex E. Dimensionality tests, factor loadings and Cronbach's alpha values

DIMENSIONALITY TESTS

The empirical dimensionality of the indicators selected to capture latent theoretical concepts at all aggregation levels were assessed using Bayesian factor analysis models. For each model, the first 5,000 iterations of the chain were discarded and the next 100,000 iterations selected. Saving each 100th iteration of the chain produced a data set of 1000 estimates for the parameters of interest in the models. As a general strategy, Bayesian factor analysis models were estimated by asking for a single factor. Two- and in some cases three-factor models were also run but none of these showed a better general fit with regard to capturing the empirical dimensionality in the data than the unidimensional solutions. Moreover, Cronbach's Alpha (CA) was calculated as a measure of scalability. To inform the choices made, the pairwise bivariate correlation coefficients (Pearson's r) were also calculated for each cluster of indicators. These are presented in Annex F. The tables in this Annex include, for each indicator, the loadings and their corresponding standard error, the uniqueness coefficients and their corresponding standard errors, and the Cronbach's Alpha coefficients computed for the scale with the item deleted.

FACTOR LOADINGS AND CRONBACH'S ALPHA VALUES

ATTRIBUTE 1: REPRESENTATIVE GOVERNMENT

No.	Component	Loading	SE	Uniqueness	SE	Cronbach's alpha if item deleted
1.1	Clean Elections	0.944	0.000	0.109	0.003	0.888
1.3	Free Political Parties	0.923	0.000	0.148	0.004	0.925
1.4	Elected Officials	0.920	0.000	0.153	0.004	0.917
						Cronbach's alpha = 0.939

1.1. Clean Elections

No.	Component	Loading	SE	Uniqueness	SE	Cronbach's alpha if item deleted
1.1.1	EMB autonomy	0.940	0.000	0.117	0.000	0.925
1.1.2	EMB capacity	0.842	0.000	0.292	0.000	0.937
1.1.3	Election other voting irregularities	0.879	0.000	0.228	0.000	0.934
1.1.4	Election government intimidation	0.958	0.000	0.083	0.000	0.926
1.1.5	Election free and fair	0.980	0.000	0.040	0.000	0.922
1.1.6	Competition	0.811	0.000	0.343	0.000	0.966
						Cronbach's alpha = 0.945

1.3. Free Political Parties

No.	Component	Loading	SE	Uniqueness	SE	Cronbach's alpha if item deleted
1.3.1	Party ban	0.878	0.000	0.229	0.000	0.847
1.3.2	Barriers to parties	0.955	0.000	0.088	0.000	0.828
1.3.3	Opposition parties' autonomy	0.945	0.000	0.107	0.000	0.835
1.3.4	Elections multiparty	0.890	0.000	0.211	0.000	0.842
1.3.5	Competitiveness of participation	0.888	0.000	0.211	0.000	0.888
1.3.6	Multiparty elections	0.903	0.000	0.185	0.000	0.913
						Cronbach's alpha = 0.885

1.4. Elected Government

No.	Component	Loading	SE	Uniqueness	SE	Cronbach's alpha if item deleted
1.4.1	Elected officials index	0.756	0.000	0.429	0.000	0.721
1.4.2	Competitiveness of executive recruitment	0.974	0.000	0.052	0.000	0.677
1.4.3	Openness of executive recruitment	0.816	0.000	0.334	0.000	0.749
1.4.4	Electoral	0.959	0.000	0.081	0.000	0.775
						Cronbach's alpha = 0.777

ATTRIBUTE 2: FUNDAMENTAL RIGHTS

No.	Component	Loading	SE	Uniqueness	SE	Cronbach's alpha if item deleted
2.1	Access to Justice	0.969	0.000	0.061	0.000	0.863
2.2	Civil Liberties	0.889	0.000	0.210	0.000	0.905
2.3	Social Rights	0.854	0.000	0.271	0.000	0.923
						Cronbach's alpha = 0.929

2.1. Access to Justice

No.	Component	Loading	SE	Uniqueness	SE	Cronbach's alpha if item deleted
2.1.1	Access to justice for men	0.980	0.000	0.040	0.000	0.872
2.1.2	Access to justice for women	0.973	0.000	0.053	0.000	0.874
2.1.3	Judicial corruption decision	0.696	0.000	0.515	0.000	0.890
2.1.4	Judicial accountability	0.646	0.000	0.583	0.000	0.906
2.1.5	Fair trial	0.863	0.000	0.256	0.000	0.898
						Cronbach's alpha = 0.908

2.2. Civil Liberties

No.	Component	Loading	SE	Uniqueness	SE	Cronbach's alpha if item deleted
2.2.A	Freedom of expression	0.969	0.000	0.061	0.000	0.941
2.2.B	Freedom of association and assembly	0.961	0.000	0.077	0.000	0.942
2.2.C	Freedom of religion	0.8437	0.000	0.300	0.000	0.961
2.2.D	Freedom of movement	0.905	0.000	0.182	0.000	0.947
2.2.E	Personal integrity and security	0.873	0.000	0.239	0.000	0.956
						Cronbach's alpha = 0.959

2.2.A. Freedom of expression

No.	Component	Loading	SE	Uniqueness	SE	Cronbach's alpha if item deleted
2.2.1	Print/ broadcast censorship effort	0.948	0.000	0.101	0.000	0.957
2.2.2	Harassment of journalists	0.926	0.000	0.143	0.000	0.958
2.2.3	Media self-censorship	0.914	0.000	0.164	0.000	0.959
2.2.4	Freedom of discussion for women	0.958	0.000	0.082	0.000	0.957
2.2.5	Freedom of discussion for men	0.964	0.000	0.070	0.000	0.956
2.2.6	Freedom of academic and cultural expression	0.940	0.000	0.117	0.000	0.958
2.2.7	Freedom of opinion and expression	0.911	0.000	0.171	0.000	0.964
2.2.8	Freedom of speech and press	0.769	0.000	0.408	0.000	0.973
						Cronbach's alpha = 0.965

2.2.B. Freedom of association and assembly

No.	Component	Loading	SE	Uniqueness	SE	Cronbach's alpha if item deleted
2.2.11	CSO entry and exit	0.931	0.000	0.134	0.000	0.898
2.2.12	CSO repression	0.929	0.000	0.136	0.000	0.897
2.2.13	Freedom of peaceful assembly	0.908	0.000	0.175	0.000	0.901
2.2.14	Freedom of association and assembly	0.941	0.000	0.115	0.000	0.905
2.2.15	Freedom of assembly and association	0.875	0.000	0.234	0.000	0.923
2.2.16	Workers' rights	0.708	0.000	0.498	0.000	0.938
						Cronbach's alpha = 0.926

2.2.C. Freedom of religion

No.	Component	Loading	SE	Uniqueness	SE	Cronbach's alpha if item deleted
2.2.21	Freedom of religion	0.884	0.000	0.218	0.000	0.813
2.2.22	Religious organization repression	0.870	0.000	0.242	0.000	0.830
2.2.23	Freedom of thought, conscience, and religion	0.914	0.000	0.165	0.000	0.848
2.2.24	Freedom of religion	0.841	0.000	0.293	0.000	0.878
						Cronbach's alpha = 0.880

2.2.C. Freedom of religion

No.	Component	Loading	SE	Uniqueness	SE	Cronbach's alpha if item deleted
2.2.31	Freedom of foreign movement	0.926	0.000	0.143	0.000	0.863
2.2.32	Freedom of domestic movement for women	0.864	0.000	0.254	0.000	0.868
2.2.33	Freedom of domestic movement for men	0.911	0.000	0.171	0.000	0.862

2.2.C. Freedom of religion (cont.)

No.	Component	Loading	SE	Uniqueness	SE	Cronbach's alpha if item deleted
2.2.34	Freedom of movement and residence	0.873	0.000	0.237	0.000	0.877
2.2.35	Freedom of foreign movement	0.796	0.000	0.366	0.000	0.895
2.2.36	Freedom of domestic movement	0.749	0.000	0.440	0.000	0.901
						Cronbach's alpha = 0.898

2.2.E. Personal integrity and security

No.	Component	Loading	SE	Uniqueness	SE	Cronbach's alpha if item deleted
2.2.41	Freedom from forced labor for women	0.711	0.000	0.494	0.000	0.857
2.2.42	Freedom from forced labor for men	0.749	0.000	0.439	0.000	0.855
2.2.43	Freedom from torture	0.948	0.000	0.101	0.000	0.841
2.2.44	Freedom from political killings	0.950	0.000	0.097	0.000	0.840
2.2.45	Political Terror Scale	0.771	0.000	0.406	0.000	0.890
2.2.46	Internal conflict	0.660	0.000	0.565	0.000	0.878
2.2.47	Physical integrity rights index	0.794	0.000	0.369	0.000	0.876
						Cronbach's alpha = 0.882

2.3. Social Rights and Equality

No.	Component	Loading	SE	Uniqueness	SE	Cronbach's alpha if item deleted
2.3.A	Social group equality	0.942	0.000	0.114	0.000	0.822
2.3.B	Basic welfare	0.794	0.000	0.370	0.000	0.906
2.3.C	Gender equality	0.883	0.000	0.222	0.000	0.851
						Cronbach's alpha = 0.901

2.3.A. Social group equality

No.	Component	Loading	SE	Uniqueness	SE	Cronbach's alpha if item deleted
2.3.1	Social class equality in respect for civil liberties	0.876	0.000	0.233	0.000	0.925
2.3.2	Social group equality in respect for civil liberties	0.792	0.000	0.372	0.000	0.929
2.3.3	Power distributed by socioeconomic position	0.686	0.000	0.529	0.000	0.933
2.3.4	Power distributed by social group	0.795	0.000	0.376	0.000	0.929
2.3.5	Representation of disadvantaged social groups	0.469	0.000	0.780	0.000	0.942
2.3.6	Exclusion by socio-economic group index	0.948	0.000	0.102	0.000	0.922
2.3.7	Exclusion by political group index	0.882	0.000	0.221	0.000	0.928
2.3.8	Exclusion by social group index	0.963	0.000	0.073	0.000	0.921
2.3.9	Exclusion by urban-rural location index	0.910	0.000	0.172	0.000	0.926
2.3.10	Religious/ethnic tensions	0.534	0.000	0.715	0.000	0.941
						Cronbach's alpha = 0.936

2.3.B. Basic welfare

No.	Component	Loading	SE	Uniqueness	SE	Cronbach's alpha if item deleted
2.3.21	Infant mortality rate	0.992	0.000	0.017	0.000	0.932
2.3.22	Life expectancy	0.962	0.000	0.074	0.000	0.935
2.3.23	Kilocalories per person per day	0.801	0.000	0.358	0.000	0.945
2.3.24	Literacy	0.845	0.000	0.286	0.000	0.949
2.3.25	Average years of schooling	0.881	0.000	0.224	0.000	0.936

2.3.B. Basic welfare (cont.)

No.	Component	Loading	SE	Uniqueness	SE	Cronbach's alpha if item deleted
2.3.26	Educational equality	0.740	0.000	0.452	0.000	0.943
2.3.27	Health equality	0.781	0.000	0.390	0.000	0.941
						Cronbach's alpha = 0.948

2.3.C. Gender equality

No.	Component	Loading	SE	Uniqueness	SE	Cronbach's alpha if item deleted
2.3.31	Power distributed by gender	0.884	0.000	0.219	0.000	0.773
2.3.32	CSO women's participation	0.827	0.000	0.315	0.000	0.780
2.3.33	Female vs. male mean years of schooling	0.647	0.000	0.582	0.000	0.805
2.3.34	Women's representation in national parliaments	0.624	0.000	0.611	0.000	0.824
2.3.35	Exclusion by gender index	0.922	0.000	0.150	0.000	0.764
2.3.36	Women's political rights	0.741	0.000	0.450	0.000	0.847
2.3.37	Women's economic rights	0.670	0.000	0.551	0.000	0.847
						Cronbach's alpha = 0.834

ATTRIBUTE 2: FUNDAMENTAL RIGHTS

No.	Component	Loading	SE	Uniqueness	SE	Cronbach's alpha if item deleted
3.1	Effective parliament	0.889	0.000	0.209	0.000	0.874
3.2	Judicial independence	0.850	0.000	0.278	0.000	0.898
3.3	Media integrity	0.917	0.000	0.159	0.000	0.856
						Cronbach's alpha = 0.914

3.1. Effective Parliament

No.	Component	Loading	SE	Uniqueness	SE	Cronbach's alpha if item deleted
3.1.1	Legislature questions officials in practice	0.928	0.000	0.139	0.000	0.921
3.1.2	Executive oversight	0.949	0.000	0.099	0.000	0.918
3.1.3	Legislature investigates in practice	0.967	0.000	0.065	0.000	0.913
3.1.4	Legislature opposition parties	0.953	0.000	0.091	0.000	0.915
3.1.5	Executive constraints	0.858	0.000	0.265	0.000	0.963
						Cronbach's alpha = 0.942

3.2. Judicial Independence

No.	Component	Loading	SE	Uniqueness	SE	Cronbach's alpha if item deleted
3.2.1	High court independence	0.944	0.000	0.110	0.000	0.835
3.2.2	Lower court independence	0.944	0.000	0.110	0.000	0.836
3.2.3	Compliance with high court	0.898	0.000	0.193	0.000	0.834
3.2.4	Compliance with judiciary	0.914	0.000	0.164	0.000	0.832
3.2.5	Law and order	0.495	0.000	0.755	0.000	0.907
3.2.6	Independent judiciary	0.776	0.000	0.398	0.000	0.906
						Cronbach's alpha = 0.884

3.3. Media Integrity

No.	Component	Loading	SE	Uniqueness	SE	Cronbach's alpha if item deleted
3.3.1	Print/broadcast media critical	0.960	0.000	0.078	0.000	0.872
3.3.2	Print/broadcast media perspectives	0.941	0.000	0.114	0.000	0.876
3.3.3	Media bias	0.952	0.000	0.094	0.000	0.871
3.3.4	Media corrupt	0.910	0.000	0.173	0.000	0.885
3.3.5	Media Freedom	0.910	0.000	0.172	0.000	0.960
						Cronbach's alpha = 0.919

ATTRIBUTE 4: IMPARTIAL ADMINISTRATION

No.	Component	Loading	SE	Uniqueness	SE	Cronbach's alpha if item deleted
4.1	Absence of Corruption	0.986	0.001	0.026	0.001	---
4.2	Predictable Enforcement	0.881	0.001	0.224	0.001	---
						Cronbach's alpha = 0.930

4.1. Absence of Corruption

No.	Component	Loading	SE	Uniqueness	SE	Cronbach's alpha if item deleted
4.1.1	Public sector corrupt exchanges	0.958	0.000	0.083	0.000	0.888
4.1.2	Public sector theft	0.963	0.000	0.073	0.000	0.888
4.1.3	Executive embezzlement and theft	0.942	0.000	0.112	0.000	0.890
4.1.4	Executive bribery and corrupt exchanges	0.928	0.000	0.138	0.000	0.894
4.1.5	Corruption	0.743	0.000	0.448	0.000	0.962
						Cronbach's alpha = 0.927

3.1. Effective Parliament

No.	Component	Loading	SE	Uniqueness	SE	Cronbach's alpha if item deleted
4.2.1	Executive respects constitution	0.871	0.000	0.242	0.000	0.880
4.2.2	Transparent laws with predictable enforcement	0.934	0.000	0.128	0.000	0.877
4.2.3	Rigorous and impartial public administration	0.935	0.000	0.125	0.000	0.878
4.2.4	Criteria for appointment decisions in the state administration	0.820	0.000	0.327	0.000	0.888
4.2.5	Criteria for appointment decisions in the armed forces	0.793	0.000	0.371	0.000	0.887
4.2.6	Bureaucratic quality	0.806	0.000	0.351	0.000	0.928
						Cronbach's alpha = 0.908

ATTRIBUTE 5: PARTICIPATORY ENGAGEMENT

5.1. Civil Society Participation

No.	Component	Loading	SE	Uniqueness	SE	Cronbach's alpha if item deleted
5.1.1	CSO participatory environment	0.909	0.000	0.173	0.000	0.890
5.1.2	Engaged society	0.856	0.000	0.273	0.000	0.901
5.1.3	CSO consultation	0.838	0.000	0.306	0.000	0.902
5.1.4	Engagement in independent non-political associations	0.762	0.000	0.415	0.000	0.913
5.1.5	Engagement in independent political associations	0.780	0.000	0.390	0.000	0.906
5.1.6	Engagement in independent trade unions	0.766	0.000	0.411	0.000	0.907
						Cronbach's alpha = 0.918

Annex F. Item–item correlations

The tables in this Annex present the pairwise bivariate correlation coefficients (Pearson's r) for each of the clusters of indicators that were subsequently aggregated into subcomponents, subattributes or attributes. While the cells above the diagonal list the coefficients, the cells below the diagonal contain the respective numbers of observations (country-years).

DIMENSION 1. REPRESENTATIVE GOVERNMENT

No.	Component	1.1	1.2	1.3	1.4
1.1	Clean elections		0.739	0.871	0.868
1.2	Inclusive suffrage	7592		0.588	0.727
1.3	Free political parties	7592	7593		0.849
1.4	Elected officials	7592	7593	7657	

1.1. Clean Elections

No.	Component	1.1.1	1.1.2	1.1.3	1.1.4	1.1.5	1.1.6
1.1.1	EMB autonomy		0.804	0.805	0.885	0.924	0.819
1.1.2	EMB capacity	7657		0.836	0.819	0.805	0.630
1.1.3	Election other voting irregularities	7593	7593		0.859	0.854	0.656
1.1.4	Election government intimidation	7593	7593	7593		0.942	0.750
1.1.5	Election free and fair	7593	7593	7593	7593		0.804
1.1.6	Competition	7656	7656	7592	7592	7592	

1.3. Free Political Parties

No.	Component	1.3.1	1.3.2	1.3.3	1.3.4	1.3.5	1.3.6
1.3.1	Party ban		0.789	0.746	0.737	0.706	0.700
1.3.2	Barriers to parties	7657		0.873	0.816	0.796	0.697
1.3.3	Opposition parties' autonomy	7464	7464		0.806	0.815	0.668
1.3.4	Elections multiparty	7593	7593	7400		0.782	0.731
1.3.5	Competitiveness of participation	7091	7091	6928	7028		0.684
1.3.6	Multiparty elections	7656	7656	7463	7592	7090	

1.4. Elected Government

No.	Component	1.4.1	1.4.2	1.4.3	1.4.4
1.4.1	Elected officials index		0.531	0.532	0.676
1.4.2	Competitiveness of executive recruitment	7091		0.555	0.768
1.4.3	Openness of executive recruitment	7091	7091		0.536
1.4.4	Electoral	7656	7090	7090	

DIMENSION 2. FUNDAMENTAL RIGHTS

No.	Component	2.1	2.2	2.3
2.1	Access to justice		0.861	0.827
2.2	Civil liberties	7627		0.760
2.3	Social rights	7627	7657	

2.1. Access to Justice

No.	Component	2.1.1	2.1.2	2.1.3	2.1.4	2.1.5
2.1.1	Access to justice for men		0.956	0.669	0.625	0.839
2.1.2	Access to justice for women	7657		0.658	0.614	0.834
2.1.3	Judicial corruption decision	7627	7627		0.667	0.725
2.1.4	Judicial accountability	7657	7657	7627		0.609
2.1.5	Fair trial	7657	7657	7627	7657	

2.2. Civil Liberties

No.	Component	2.2.A	2.2.B	2.2.C	2.2.D	2.2.E
2.2.A	Freedom of expression		0.934	0.793	0.866	0.864
2.2.B	Freedom of association and assembly	7657		0.822	0.867	0.816
2.2.C	Freedom of religion	7657	7657		0.799	0.685
2.2.D	Freedom of movement	7657	7657	7657		0.810
2.2.E	Personal integrity and security	7657	7657	7657	7657	

2.2.A. Freedom of expression

No.	Component	2.2.1	2.2.2	2.2.3	2.2.4	2.2.5	2.2.6	2.2.7	2.2.8
2.2.1	Print/ broadcast censorship effort		0.882	0.888	0.873	0.875	0.870	0.828	0.661
2.2.2	Harassment of journalists	7657		0.864	0.867	0.868	0.846	0.824	0.646
2.2.3	Media self-censorship	7657	7657		0.835	0.851	0.841	0.786	0.619
2.2.4	Freedom of discussion for women	7657	7657	7657		0.958	0.892	0.788	0.630
2.2.5	Freedom of discussion for men	7657	7657	7657	7657		0.900	0.800	0.639
2.2.6	Freedom of academic and cultural expression	7657	7657	7657	7657	7657		0.785	0.653
2.2.7	Freedom of opinion and expression	7657	7657	7657	7657	7657	7657		0.715
2.2.8	Freedom of speech and press	6376	6376	6376	6376	6376	6376	6376	

2.2.B. Freedom of association and assembly

No.	Component	2.2.11	2.2.12	2.2.13	2.2.14	2.2.15	2.2.16
2.2.11	CSO entry and exit		0.895	0.853	0.832	0.708	0.545
2.2.12	CSO repression	7657		0.882	0.812	0.695	0.565
2.2.13	Freedom of peaceful assembly	7616			0.819	0.719	0.567
2.2.14	Freedom of association and assembly	7657	7657	7616		0.808	0.596
2.2.15	Freedom of assembly and association	6372	6372	6359	6372		0.560
2.2.16	Workers' rights	6374	6374	6361	6374	6368	

2.2.B. Freedom of association and assembly

No.	Component	2.2.21	2.2.22	2.2.23	2.2.24
2.2.21	Freedom of religion		0.811	0.747	0.647
2.2.22	Religious organization repression	7657		0.699	0.621
2.2.23	Freedom of thought, conscience and religion	7657	7657		0.738
2.2.24	Freedom of religion	6597	6597	6597	
2.2.15	Freedom of assembly and association	6372	6372	6359	6372

2.2.D. Freedom of movement

No.	Component	2.2.31	2.2.32	2.2.33	2.2.34	2.2.35	2.2.36
2.2.31	Freedom of foreign movement		0.768	0.822	0.723	0.613	0.518
2.2.32	Freedom of domestic movement for women	7657		0.818	0.637	0.559	0.474
2.2.33	Freedom of domestic movement for men	7657	7657		0.658	0.529	0.500
2.2.34	Freedom of movement and residence	7657	7657	7657		0.631	0.617
2.2.35	Freedom of foreign movement	6600	6600	6600	6600		0.549
2.2.36	Freedom of domestic movement	6599	6599	6599	6599	6599	

2.2.E. Personal integrity and security

No.	Component	2.2.41	2.2.42	2.2.43	2.2.44	2.2.45	2.2.46	2.2.47
2.2.41	Freedom from forced labor for women		0.885	0.618	0.603	0.457	0.427	0.478
2.2.42	Freedom from forced labor for men	7657		0.656	0.639	0.448	0.400	0.464
2.2.43	Freedom from torture	7657	7657		0.904	0.632	0.561	0.683
2.2.44	Freedom from political killings	7657	7657	7657		0.663	0.599	0.698
2.2.45	Political Terror Scale	7345	7345	7345	7345		0.614	0.835
2.2.46	Internal conflict	5004	5004	5004	5004	4967		0.579
2.2.47	Physical integrity rights index	6351	6351	6351	6351	6319	4860	

2.3. Social rights and equality

No.	Component	2.3.A	2.3.B	2.3.C
2.3.A	Social group equality		0.747	0.830
2.3.B	Basic welfare	7657		0.700
2.3.C	Gender equality	7657	7657	

2.3.A. Social group equality

No.	Component	2.3.1	2.3.2	2.3.3	2.3.4	2.3.5	2.3.6	2.3.7	2.3.8	2.3.9	2.3.10
2.3.1	Social class equality in respect for civil liberties		0.745	0.688	0.681	0.493	0.823	0.660	0.766	0.719	0.385
2.3.2	Social group equality in respect for civil liberties	7657		0.521	0.717	0.409	0.646	0.617	0.784	0.582	0.386
2.3.3	Power distributed by socio economic position	7657	7657		0.580	0.560	0.662	0.492	0.599	0.544	0.350
2.3.4	Power distributed by social group	7657	7657	7657		0.373	0.648	0.679	0.809	0.592	0.422
2.3.5	Representation of disadvantaged social groups	7086	7086	7086	7086		0.479	0.371	0.422	0.423	0.129
2.3.6	Exclusion by socio-economic group index	7640	7640	7640	7640	7069		0.757	0.875	0.912	0.473
2.3.7	Exclusion by political group index	7620	7620	7620	7620	7049	7620		0.839	0.765	0.460
2.3.8	Exclusion by social group index	7625	7625	7625	7625	7054	7625	7620		0.8317	0.514
2.3.9	Exclusion by urban-rural location index	7625	7625	7625	7625	7054	7625	7620	7625		0.493
2.3.10	Religious/ethnic tensions	5004	5004	5004	5004	4808	4997	4991	4991	4991	

2.3.B. Basic welfare

No.	Component	2.3.21	2.3.22	2.3.23	2.3.24	2.3.25	2.3.26	2.3.27
2.3.21	Infant mortality rate		0.954	0.794	0.789	0.867	0.724	0.762
2.3.22	Life expectancy	7498		0.779	0.719	0.816	0.671	0.725
2.3.23	Kilocalories per person per day	6745	6787		0.551	0.728	0.611	0.669
2.3.24	Literacy	4840	4846	4445		0.851	0.635	0.632
2.3.25	Average years of schooling	7507	7562	6834	4846		0.699	0.689
2.3.26	Educational equality	7507	7576	6834	4846	7627		0.905
2.3.27	Health equality	7507	7576	6834	4846	7627	7657	

2.3.C. Gender equality

No.	Component	2.3.31	2.3.32	2.3.33	2.3.34	2.3.35	2.3.36	2.3.37
2.3.31	Power distributed by gender		0.718	0.504	0.509	0.800	0.518	0.480
2.3.32	CSO women's participation	7657		0.558	0.437	0.740	0.459	0.456
2.3.33	Female vs. male mean years of schooling	7627	7627		0.405	0.651	0.326	0.382
2.3.34	Women's representation in national parliaments	7000	7000	6976		0.463	0.682	0.272
2.3.35	Exclusion by gender index	7640	7640	7626	6983		0.488	0.548
2.3.36	Women's political rights	6360	6360	6347	5997	6359		0.339
2.3.37	Women's ethnic rights	6311	6311	6298	5923	6310	6293	

DIMENSION 3. CHECKS ON GOVERNMENT

No.	Component	3.1	3.2	3.3
3.1	Effective parliament		0.756	0.816
3.2	Judicial independence	7647		0.779
3.3	Media integrity	7647	7657	

3.1. Effective parliament

No.	Component	3.1.1	3.1.2	3.1.3	3.1.4	3.1.5
3.1.1	Legislature questions officials in practice		0.838	0.866	0.846	0.770
3.1.2	Executive oversight	7479		0.889	0.861	0.764
3.1.3	Legislature investigates in practice	7479	7619		0.887	0.790
3.1.4	Legislature opposition parties	7479	7482	7480		0.833
3.1.5	Executive constraints	6953	7067	7063	6956	

3.2. Judicial independence

No.	Component	3.2.1	3.2.2	3.2.3	3.2.4	3.2.5	3.2.6
3.2.1	High court independence		0.906	0.785	0.802	0.391	0.635
3.2.2	Lower court independence	7630		0.792	0.797	0.382	0.646
3.2.3	Compliance with high court	7627	7627		0.887	0.445	0.655
3.2.4	Compliance with judiciary	7627	7627	7627		0.446	0.665
3.2.5	Law and order	4986	5004	4983	4983		0.419
3.2.6	Independent judiciary	6554	6575	6551	6551	4906	

3.3. Media integrity

No.	Component	3.3.1	3.3.2	3.3.3	3.3.4	3.3.5
3.3.1	Print/broadcast media critical		0.881	0.893	0.839	0.764
3.3.2	Print/broadcast media perspectives	7657		0.890	0.807	0.724
3.3.3	Media bias	7657	7657		0.839	0.754
3.3.4	Media corrupt	7657	7657	7657		0.756
3.3.5	Media Freedom	7288	7288	7288	7288	

DIMENSION 4. IMPARTIAL ADMINISTRATION

No.	Component	4.1	4.2
4.1	Absence of corruption		0.869
4.2	Predictable enforcement	7657	

4.1. Absence of corruption

No.	Component	4.1.1	4.1.2	4.1.3	4.1.4	4.1.5
4.1.1	Public sector corrupt exchanges		0.907	0.854	0.848	0.688
4.1.2	Public sector theft	7657		0.864	0.829	0.695
4.1.3	Executive embezzlement and theft	7657	7657		0.872	0.675
4.1.4	Executive bribery and corrupt exchanges	7657	7657	7657		0.677
4.1.5	Corruption	5004	5004	5004	5004	

4.2. Predictable enforcement

No.	Component	4.2.1	4.2.2	4.2.3	4.2.4	4.2.5	4.2.6
4.2.1	Executive respects constitution		0.790	0.775	0.652	0.692	0.657
4.2.2	Transparent laws with predictable enforcement	7657		0.855	0.665	0.6758	0.654
4.2.3	Rigorous and impartial public administration	7657	7657		0.660	0.657	0.678
4.2.4	Criteria for appointment decisions in the state administration	7387	7387	7387		0.783	0.676
4.2.5	Criteria for appointment decisions in the armed forces	7371	7371	7371	7371		0.645
4.2.6	Bureaucratic quality	5004	5004	5004	4823	4817	

5.1. Civil society participation

No.	Component	5.1.1	5.1.2	5.1.3	5.1.4	5.1.5	5.1.6
5.1.1	CSO participatory environment		0.772	0.787	0.652	0.689	0.689
5.1.2	Engaged society	7657		0.805	0.531	0.625	0.562
5.1.3	CSO consultation	7657	7657		0.548	0.580	0.581
5.1.4	Engagement in independent non-political associations	7550	7550	7550		0.645	0.665
5.1.5	Engagement in independent political associations	7538	7538	7538	7537		0.711
5.1.6	Engagement in independent trade unions	7575	7575	7575	7535	7534	

5.3. Direct democracy

No.	Component	5.3.1	5.3.2	5.3
5.3.1	Direct popular vote index		0.282	0.931
5.3.2	Electoral	7656		0.342
5.3	Direct democracy sub-dimension	7592	7592	

5.4. Local democracy

No.	Component	5.4.1	5.4.2	5.4
5.4.1	Local government index		0.624	0.897
5.4.2	Subnational elections free and fair	6576		0.864
5.4	Local democracy sub-dimension	7316	6640	

Annex G. Comparisons with extant measures

Version 4 of the Technical Procedures Guide contains extensive tables that show the relationships between aspects of the GSoD Indices and datasets from other sources. We have not updated those tables for Version 6.

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About International IDEA

The International Institute for Democracy and Electoral Assistance (International IDEA) is an intergovernmental organization with the mission to advance democracy worldwide, as a universal human aspiration and enabler of sustainable development. We do this by supporting the building, strengthening and safeguarding of democratic political institutions and processes at all levels. Our vision is a world in which democratic processes, actors and institutions are inclusive and accountable and deliver sustainable development to all.

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The Global State of Democracy is a report that aims to provide policymakers with an evidence-based analysis of the state of global democracy, supported by the Global State of Democracy Indices (GSoD Indices), in order to inform policy interventions and identify problem-solving approaches to trends affecting the quality of democracy around the world.

This document revises and updates the conceptual and measurement framework that guided the construction of Version 6 of the GSoD Indices, which depicts democratic trends at the country, regional and global levels across a broad range of different attributes of democracy in the period 1975–2021.

The data underlying the GSoD Indices is based on a total of 116 indicators developed by various scholars and organizations using different types of source, including expert surveys, standards-based coding by research groups and analysts, observational data and composite measures.

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