

Trust in Civil Servants:
A Cross-National Dataset for Public Policy Research,
1986–2022

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Trust in civil servants is essential for effective governance, enabling policy implementation, public service delivery, and compliance. However, the lack of comparable cross-national data on trust in bureaucracy has limited our ability to systematically examine these relationships. To address this gap, we develop the Trust in Civil Servants (TCS) dataset using an advanced latent-variable modeling technique, using 132 national and cross-national surveys from 98 countries (1986-2022). Our measures reveal variations in trust both within and between countries. We find that economic performance and public security enhance trust in the short term, whereas government quality and effectiveness have more enduring, long-term impacts on trust in civil service. The TCS dataset opens new avenues for examining connections between trust, governance quality, and complex policy challenges across different contexts.

Keywords: political trust, latent variable model, public administration, governance

Declaration of conflicting interest

No potential conflict of interest was reported by the author(s).

Data availability

The code used to generate the dataset and conduct validation test are openly available at:

https://github.com/fsolt/dcpo_trust_bureaucracy.

Political trust is a foundation of regime support, democratic legitimacy, and governance (Easton, 1975; Norris et al., 2002; Wuttke et al., 2020). It is also associated with civic duty and policy compliance (Bargain and Aminjonov, 2020; Valgarsson et al., 2021), as well as individuals' well-being during crises (Devine et al., 2021; Zaki et al., 2022). For these reasons, political trust's dynamics, determinants, and consequences have been a leading issue in political science and public administration.

Yet despite its importance, empirical findings about whether and how political trust matters remain mixed. While examining redistribution policies, Devine (2024) finds negligible effects of political trust on policy preferences in the UK and Switzerland, contrasting with Macdonald (2021)'s evidence of trust shaping redistribution support in the United States. When the focus shifts to trust in administrative and implementing institutions, the evidence is also mixed: Harring (2018) found no effect of trust in administrative institutions on environmental policy support, while Bergquist et al. (2022) demonstrated that public trust in implementing institutions has a stronger effect on supporting climate change policies than other institutional trust.

These mixed findings illustrate that our empirical leverage remains limited. Comparative research on trust is hindered by the lack of comparable cross-national time-series measures (Tai, 2025). Existing surveys often use different trust items and provide inconsistent country-year coverage, which makes results difficult to compare across studies. As a result, it is hard to evaluate competing claims across governance contexts and over time, or to distinguish whether conflicting results reflect real contextual heterogeneity or differences in measurement and coverage.

This limitation is particularly consequential for research on trust in civil servants. For public sectors, public trust is not only a fundamental element of governance (Blind, 2007), but also a central normative objective of public administration (Goodsell, 2006). For policy studies, trust in civil servants deserves particular attention because these officials directly interact with citizens, deliver public services, and translate policies into practice (Morelock, 2021). With adequate trust, the public more readily accepts services and complies with policy directives (Kim, 2005: 611). Conversely, low trust can impede officials' ability to implement policies effectively and secure public cooperation (Van Ryzin,

2011; Yates, 1982).

Despite this importance, existing research on trust in civil servants remains geographically and temporally constrained (Choi, 2018; Houston et al., 2016; Morelock, 2021; Van de Walle and Migchelbrink, 2022), limiting our ability to understand how trust dynamics shape the policy process across different governance contexts. In addition, limited cross-nationally comparable data makes it challenging to test competing theories about the factors influencing trust in bureaucracy, whether it is government performance, governance quality, or other factors (Bouckaert, 2012; Kettl, 2000; Morelock, 2021; Van de Walle and Migchelbrink, 2022).

To address this gap, we introduce the Trust in Civil Servants (TCS) dataset, which leverages 132 national and cross-national surveys covering 98 countries over 36 years (1986–2022) and applies recent advances in latent-variable modeling of public opinion (Solt, 2020c). We validate the TCS data by demonstrating strong correlations with individual survey items and related measures, such as perceived corruption and trust in other political institutions.

Using the TCS data, we conduct a cross-national time-series analysis to examine competing theories on trust in civil servants, focusing on government outcomes versus government quality. We find that government outcomes, such as economic performance and public security, have short-term effects on trust, while government quality including effectiveness, exerts more significant, enduring effects. This underscores that while both factors are important, the quality of governance plays a long-term role in fostering trust in civil servants.

Our study contributes to comparative public administration and public policy by providing valid, comparable longitudinal data on trust in civil servants. Recent research underscores the need to explore how trust in public institutions influence complex policy challenges like climate change and environmental mitigation support, CO2 emissions, and decarbonization in comparative context (Cole et al., 2024; Davidovic, Forthcoming). The TCS dataset addresses these calls by enabling cross-national research on how trust interacts with governance quality and public sector performance, linking administrative practices to governance challenges and policy outcomes. Moreover, the TCS dataset

contributes to ongoing policy debates on the role of institutional trust in shaping policy preferences. By facilitating comparative analyses, the TCS dataset allows researchers to explore whether and how trust influences support for complex policies across diverse contexts.

1 Debates on the Causes of Trust in Civil Servants

A longstanding puzzle in public administration is understanding what explains trust in bureaucracy. One dominant theme is the belief that higher levels of government performance lead to greater trust in civil servants, based on the assumption that better performance correlates with higher trust and that lower trust toward bureaucrats reflects dissatisfaction with government performance (Yang and Holzer, 2006). A common approach to measuring performance is through macroeconomic outcomes, such as economic growth, unemployment rate, economic inequality, and inflation. However, the results from studies on macroeconomic outcomes are mixed. For example, Choi (2018) found that GDP per capita positively affects trust in bureaucracies, while Houston et al. (2016) did not find significant effects of GDP per capita and inflation rate on trust in civil servants. Instead, Houston et al. (2016) found that the unemployment rate negatively influences trust in civil servants. Contrary to previous studies that found some evidence for the role of government outcomes, Morelock (2021) found that none of the outcome indicators, including GDP per capita, inflation rate, unemployment, and the Gini index, had a significant effect on trust in civil servants.

Amidst these mixed results regarding macroeconomic outcomes, a growing body of literature emphasizes the role of government quality—or process—in explaining trust in bureaucracy. Van Ryzin (2011) found that the quality of government, measured by the World Bank’s Worldwide Governance Indicators, plays a more crucial role than government outcomes measured by the UN’s Human Development Index, which had a negative effect in his model. Morelock (2021) also highlights the positive role of government effectiveness, although Houston et al. (2016) finds inconsistent role of government effectiveness. A relatively consistent finding across studies is the significant role of corruption. Van de

Walle and Migchelbrink (2022) concluded that the perceived absence of corruption is more impactful on trust in bureaucracy than performance evaluations. The critical influence of perceived corruption and corruption control on public trust in civil servants is also supported by Houston et al. (2016) and Morelock (2021). Beyond these findings, recent research has explored dimensions of government performance, including transparency, agency reputation, and the integration of input, process, and output measures. Studies show that both public and private elite actors' trust in agencies is strongly influenced by performance (Kappler et al., 2024). Moreover, transparency and perceived organizational reliability have been identified as key factors in shaping public trust (Schmidhuber et al., 2023). Despite these advancements, variations in measures and modeling strategies—such as whether both outcomes and quality indicators are included in the same model—leave uncertainty about the consistency of these results. A more standardized approach is needed to clarify these relationships.

These mixed results also reflect limitations in comparative data, including limited country coverage, reliance on cross-sectional rather than dynamic analysis, and the absence of comparable measures across countries or regions (Choi, 2018; Houston et al., 2016; Morelock, 2021; Van de Walle and Migchelbrink, 2022; Van Ryzin, 2011). These shortcomings hinder a deeper understanding of the relationship between government outcomes, quality, and trust in bureaucracy.

To address these challenges, we developed the Trust in Civil Servants (TCS) dataset, a dynamic, cross-national measure that enables rigorous testing of competing theories about the sources of trust in civil servants.

2 Examining the Source Data on Trust in Civil Servants

Over the past half-century, many national and cross-national surveys have asked questions on trust attitudes toward public administrations. Our goal is not to draw a sample of surveys, but to compile as much feasible set of relevant survey items as possible and then synthesize them into a comparable country-year series.

We first defined the target construct as public trust in civil servants or public adminis-

tration based on previous trust in civil servants studies. We then undertook an extensive effort to collect and compile relevant survey questions. This involved a systematic review of survey documentation and raw data files to identify items that reference civil servants, government administrators, or public administration, and we recorded the corresponding question identifiers, response scales, fieldwork dates, and survey weights when available. Candidate items were then cross-checked by two authors to resolve construct mismatches. This process finally included 132 unique survey projects including both cross-national globe surveys and single country surveys and spanning 125 countries over 49 years to maximize broad geographic and temporal coverage and 27 unique candidate questions.¹

We then processed raw files using DCPOtools (Solt et al., 2019). To minimize the noise from the sparse data and increase comparability, drawn from the raw data, we followed a common approach (Woo et al., 2023) and excluded 17 survey items that were asked in fewer than five country-years in countries surveyed at least twice. DCPOtools standardizes formats, applies consistent recoding and weighting, and outputs analysis data for model estimation.

Together, the survey items in the source data were asked in 98 different countries in at least two time points over 36 years, from 1986 to 2022, yielding a total of 1,814 country-year-item observations. If all of these countries were surveyed in all of these years, we would have 3,528 observations per year and a total of 59,976 country-year-item observations. However, the actual dataset is far more limited, with only 1,344 country-years containing at least some data on trust in civil servants. This accounts for 54% of the 2,475 country-years spanned by our dataset. Moreover, the many different survey items employed render these data incomparable and difficult to use together.

¹The complete list of trust in civil servants/public administration survey items and included survey projects is included in online Appendix Section 6.

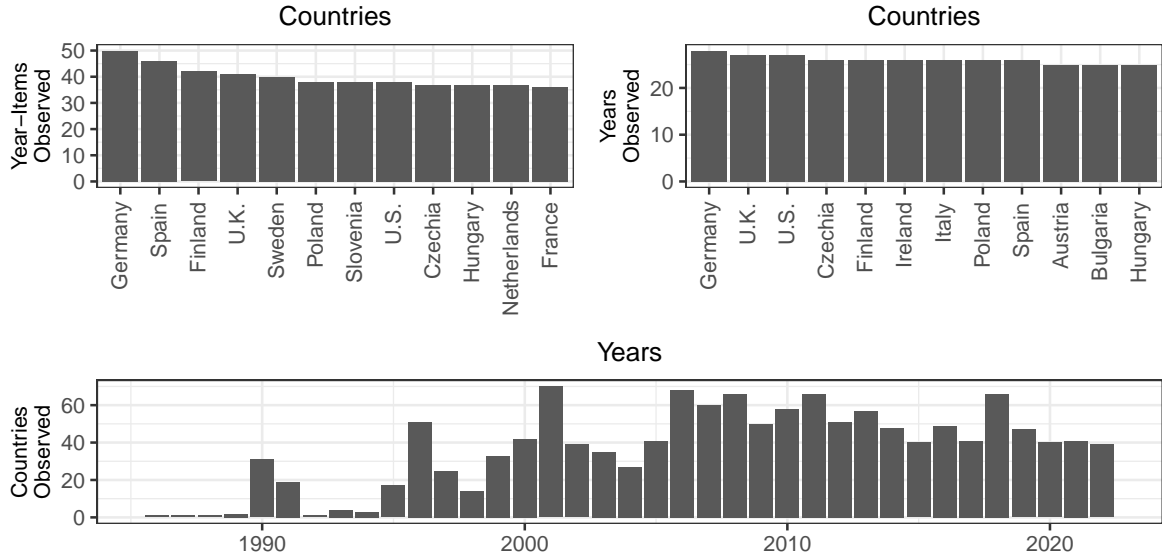


Figure 1: Countries and Years with the Most Observations in the Source Data

Consider the most frequently asked item in the data we collected, which asks respondents whether they strongly agree, agree, disagree, or strongly disagree with the statement “I am going to name a number of institutions. For each one, could you tell me how much trust you have in them. Is it a great deal of trust, some trust, not very much trust or none at all? Civil service.”² Employed by the Arab Barometer, the Asia Europe Survey, the Asian Barometer, the British Social Attitudes Survey, the Latino Barometer, the East Asian Social Survey, the European Values Survey, the Italian National Election Study, the South Asian Barometer, and the World Values Survey, this question was asked in a total of 614 different country-years. However, this represents only 25% of the country-years spanned by our data, despite being the *most common* survey item. This again underscores the sparse and often incomparable nature of the available public opinion data on this topic.

The distribution of country-year-item observations further highlights the limitations of the raw dataset. As depicted in the upper left panel of Figure 1, Germany, with

²Question text may vary slightly across survey datasets, but not, roughly speaking, by more than the translation differences across languages found within the typical cross-national survey dataset. In this case, some questions ask about “the public administration” or “government officials” rather than “the civil service,” and some refer to “confidence” rather than “trust.” These words are often translated identically.

50 country-year-item observations, is the most represented country, followed by Spain, Finland, the United Kingdom, and Sweden. The upper right panel expands on this by listing the twelve countries with the highest number of years observed, revealing overlaps and differences from the previous group; Ireland, Italy, Austria, and Bulgaria join the list, replacing Sweden, Slovenia, Netherlands, and France. The bottom panel counts the countries observed in each year and reveals just how few relevant survey items were asked before 1996. Country coverage reached its peak in 2001, when respondents in 70 countries were asked items about trust in civil servants.

In the next section, we describe how we leveraged this sparse and incomparable survey data to generate complete, comparable time-series TCS scores using a latent variable model.

3 Estimating Trust in Civil Servants

To estimate trust in civil servants across countries and over time, we employ the recent and suitable method for handling data that is both incomparable and sparse: the Dynamic Comparative Public Opinion (DCPO) model developed by Solt (2020c).³ DCPO treats trust in civil servants as a latent trait that is not directly observable but can be inferred from respondents' answer to multiple relevant survey questions, accounting for differences in question wording and response scales. DCPO has been applied in recent peer-reviewed work to produce comparable public-opinion time series from sparse and incomparable cross-national surveys (Hu and Solt, 2025; e.g., Tai et al., 2024; Woo et al., 2023). Formally, DCPO is a population-level two-parameter ordinal logistic item response theory (IRT) model with country-specific item-bias terms, addressing the two principal challenges posed by our source data: incomparability and sparsity.

DCPO models the total number of survey responses expressing at least as much trust in

³The DCPO model provides a better fit to survey data than the models proposed in Claassen (2019) or Caughey et al. (2019; Solt, 2020c). The model put forward in McGann et al. (2019) depends on dense survey data unlike the sparse data on trust in civil servants just described. Building on all of these four works, Kolczynska et al. (2020) is the very most recent effort, but the multilevel regression and post-stratification (MRP) approach it offers depends both on dense survey data and on additional data describing population characteristics, so it too is inappropriate for our purposes here.

civil servants as response category r to each question q in country k at time t , y_{ktqr} , out of the total number of respondents surveyed, n_{ktqr} , using the beta-binomial distribution to accommodate overdispersion beyond sampling error:

$$a_{ktqr} = \phi \eta_{ktqr} \quad (1)$$

$$b_{ktqr} = \phi(1 - \eta_{ktqr}) \quad (2)$$

$$y_{ktqr} \sim \text{BetaBinomial}(n_{ktqr}, a_{ktqr}, b_{ktqr}) \quad (3)$$

where η_{ktqr} is the expected probability that a random person in country k at time t answers question q in a category at least as positive as response r and ϕ represents an overall dispersion parameter.

This expected probability, η_{ktqr} , is linked to latent trust via a population-level ordinal IRT measurement equation:

$$\eta_{ktqr} = \text{logit}^{-1}\left(\frac{\bar{\theta}'_{kt} - (\beta_{qr} + \delta_{kq})}{\sqrt{\alpha_q^2 + (1.7 * \sigma_{kt})^2}}\right) \quad (4)$$

Here $\bar{\theta}'_{kt}$ is the (unbounded) country–year mean of latent trust in civil servants and σ_{kt} is country–year standard deviation. The β_{qr} parameter captures the difficulty of endorsing category r to question q , α_q captures the dispersion/noisiness of question q in measuring trust in civil servants, and δ_{kq} term represents country-specific item bias that allows the same survey item to function differently across countries.

To address sparsity over time, DCPO places random-walk priors on the latent country–year parameters and estimates are therefore smoother in data-rich periods and more uncertain in data-sparse periods. Together, DCPO estimates latent trust and smooths estimates simultaneously in a single Bayesian model, with a random-walk evolution prior providing parsimonious regularization across sparse time series and naturally expanding uncertainty where coverage is thin. For additional details, see Appendix Section 7 and Solt (2020c: 3–8).

Intuitively, DCPO addresses item incomparability through the *difficulty* and *dispersion* parameters. *Difficulty* captures how much trust in civil servants is indicated by a

given response. For example, strongly agreeing with the statement “Most government administrators (civil servants) can be trusted to do what is best for the country,” exhibits more trust in civil servants than simply agreeing, which shows more trust than responding “disagree,” which in turn is a more trusting response than “strongly disagree.” The same logic also applies across questions. Expressing “great trust” in civil servants “to look after your interests” likely expresses even more trust than just strongly agreeing that civil servants can be trusted to do what is right. *Dispersion* captures how tightly a question’s responses map onto the latent trait: questions with lower dispersion provide a stronger signal of changes in trust, while noisier questions contribute weaker information. Together, by estimating difficulty and dispersion, DCPO maps responses from different questions and surveys onto a single latent scale, yielding comparable country–year estimates.

Finally, the random-walk priors smooth trust estimates over time within each country. A given year’s trust level is modeled as the previous year’s estimate plus a random shock. This approach allows the generation of estimates even for years with little or no data, with uncertainty increasing as the time gap between observed years grows. We incorporate this uncertainty in downstream analyses as described below.

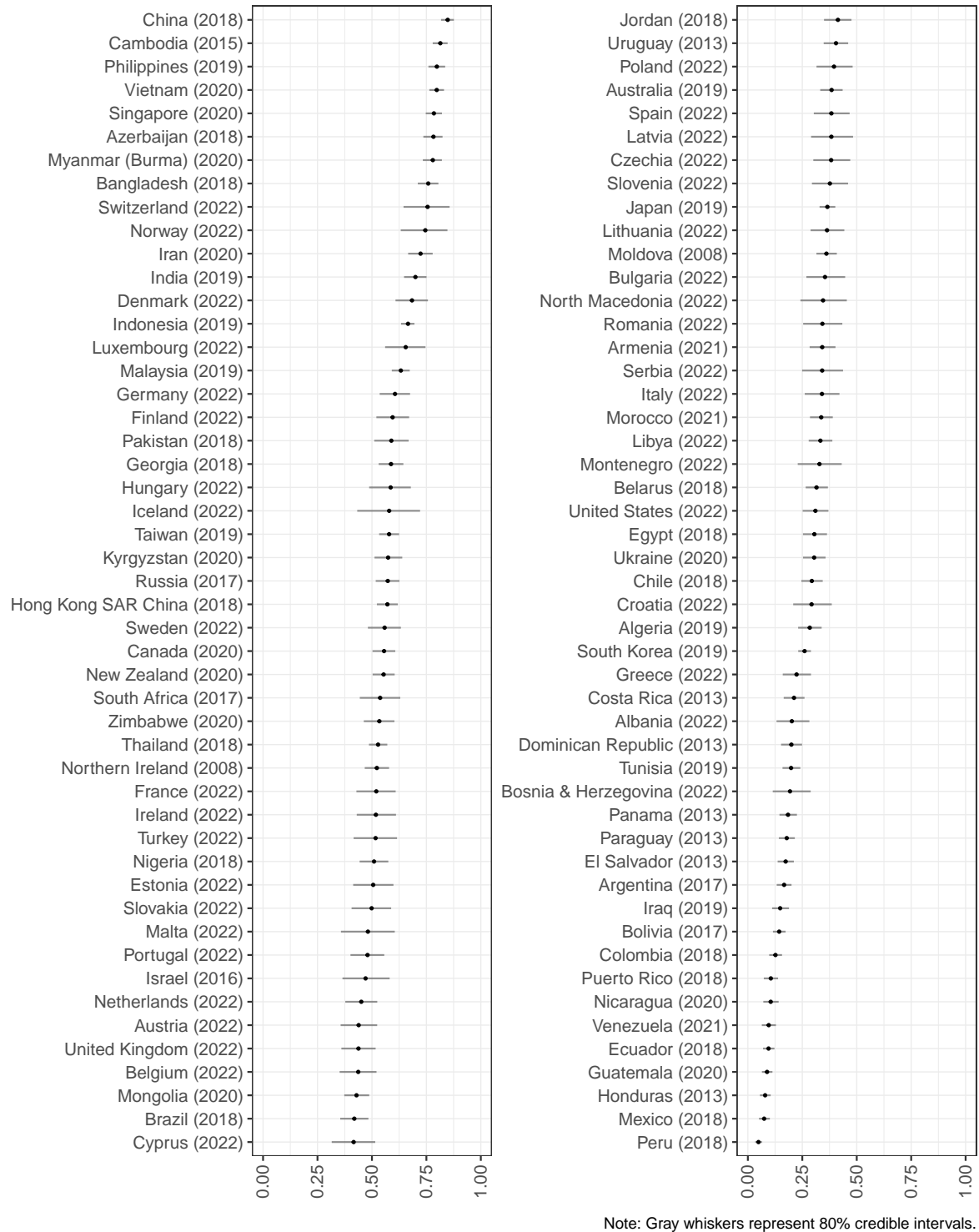


Figure 2: TCS Scores, Most Recent Available Year

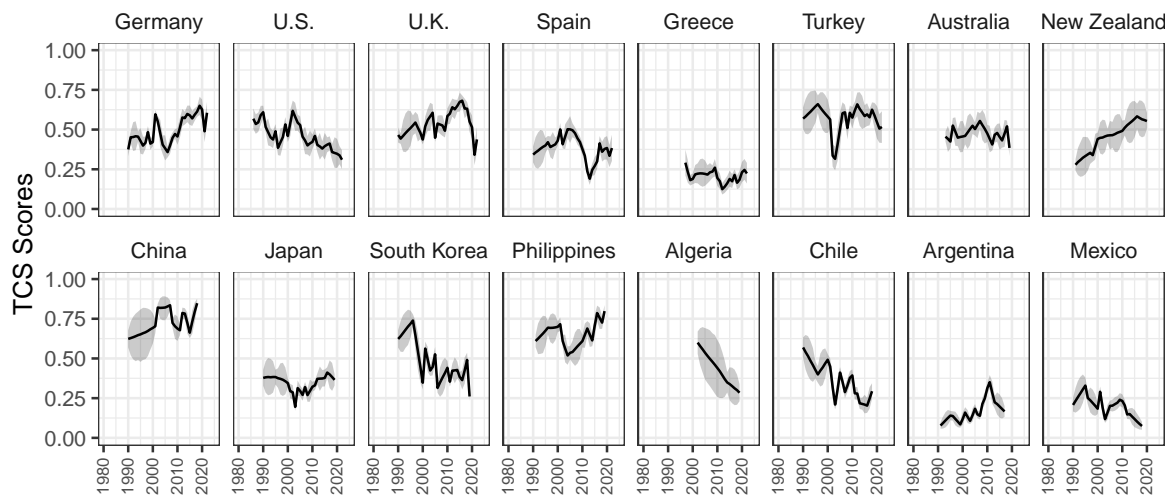
We estimated the model using the `DCP0tools` package for R (Solt, 2020a), running four chains for 1,000 iterations each and discarding the first half as warmup, which left us with

2,000 samples. The \hat{R} diagnostic had a maximum value of 1.01, indicating that the model converged. The dispersion parameters of the survey items indicate that all of our source data items load well on the latent variable (see Appendix Section 6).

The result is estimates, in all 2,475 country-years spanned by the source data, of public trust in civil servants, what we call TCS scores. Figure 2 displays the most recent available TCS score for each of the 98 countries and territories in the dataset.

Several Asian countries, such as China and Singapore, dominate the top of the list. Several Southeast Asian countries also rank highly. This pattern aligns with OECD/ADB reports documenting high self-reported satisfaction with core public services in the region in recent years (OECD and Asian Development Bank, 2019, 2025). Several democracies, such as Switzerland, Norway, Denmark, and Finland, also rank highly. On the other hand, the latest scores for Peru, Mexico, Honduras, Guatemala, and Ecuador have them as the places where the public has the lowest trust toward civil servants.

For transparency, we release the full set of country-year estimates and associated uncertainty. We treat unexpected estimates as prompts for further inquiry rather than definitive substantive claims, and we suggest that scholars interpret cross-national differences cautiously, especially for countries with sparse item coverage, where uncertainty is larger.

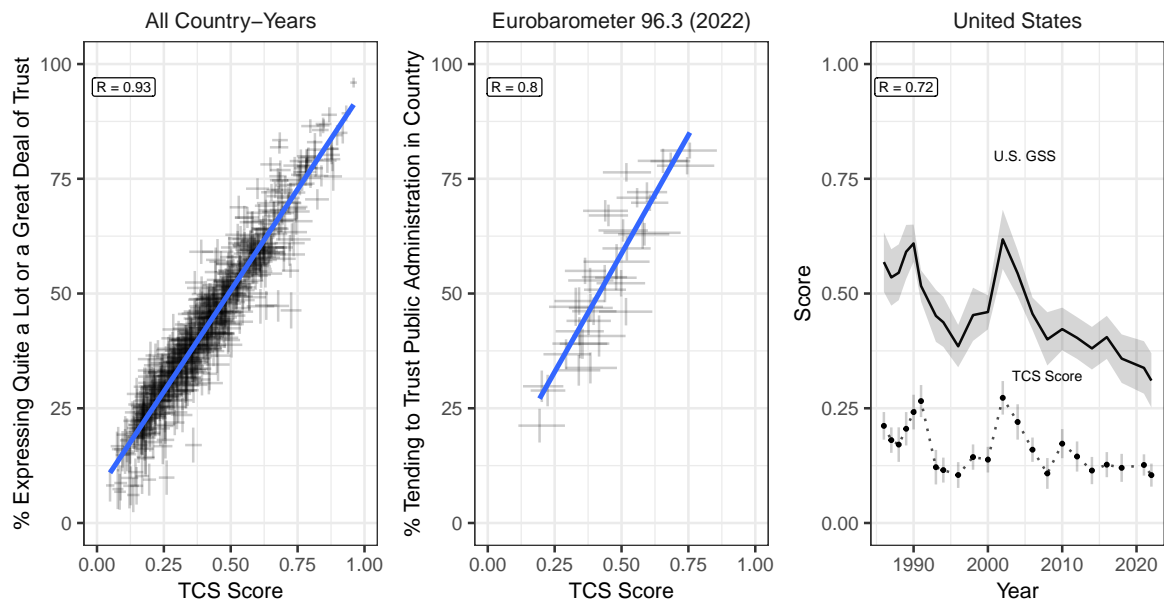


Note: Countries are ordered by their TCS scores in their most recent available year; gray shading represents 80% credible intervals.

Figure 3: TCS Scores Over Time Within Selected Countries

We then show the changes of TCS over time in sixteen countries in Figure 3. As displayed in Figure 2, the dataset covers a wide geographic breadth, allowing comparative studies of countries and regions too often neglected (see Wilson and Knutsen, 2022). Figure 3 also shows that trust in civil servants has risen prominently in some countries, such as Germany and New Zealand, while remaining fairly constant over time in others, like Greece and Australia. In contrast, TCS scores have fallen steadily in countries such as South Korea and the United States. Some countries exhibit fluctuations, as seen in the United Kingdom, where trust has advanced and retreated, or the Philippines, where trust has declined and later recovered. Together, the differences within countries over time and the differences across countries present a challenge to theories on the causes and consequences of trust in civil servants.

4 Validating Trust in Civil Servants



Note: Gray whiskers and shading represent 80% credible intervals.

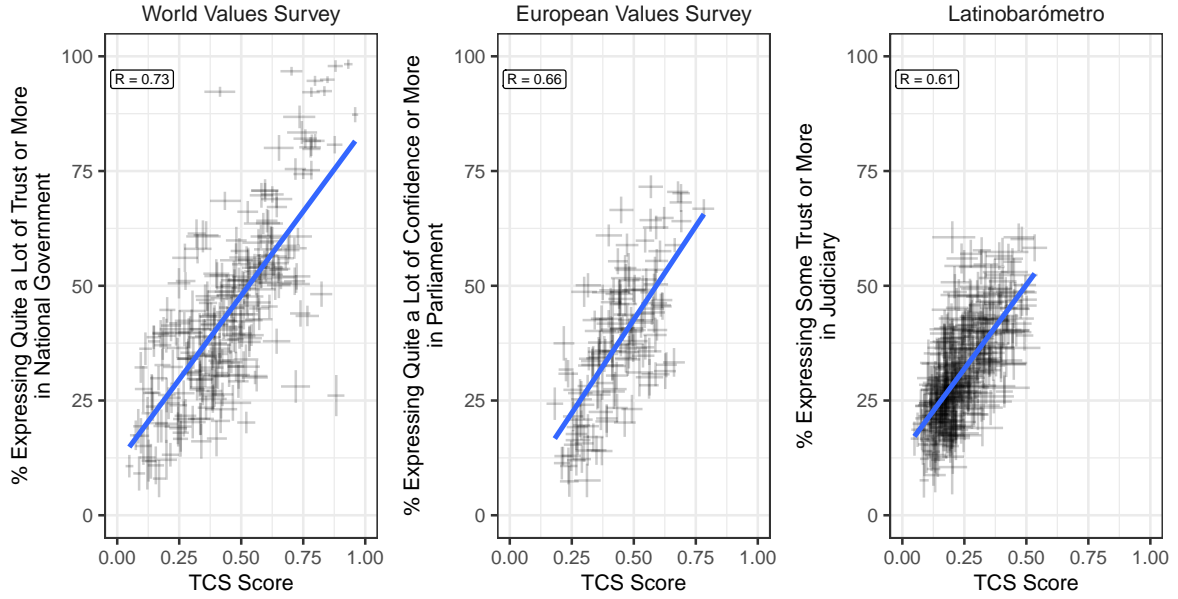
Figure 4: Convergent Validation: Correlations Between TSC Scores and Individual TSC Source-Data Survey Items

Before using these estimates in analysis, we validate our trust civil service score through convergent validation and construct validation, since validation tests of cross-national latent variables are crucially important (see, e.g., Hu et al., 2025). Figure 4 shows the measure’s validity in tests of convergent validation that tests whether a measure is empirically associated with alternative indicators of the same concept (Adcock and Collier, 2001: 540). We started with ‘internal’ convergent validation test (see, e.g., Caughey et al., 2019: 689; Solt, 2020c: 10) by comparing our TCS score with individual items from source-data to generate them.

The left panel in Figure 4 shows a scatterplot of country-years in which the TCS scores are plotted against the percentage of respondents who expressed “a quite a lot” or “a great deal” of trust in response to the question: “I am going to name a number of institutions. For each one, could you tell me how much trust you have in them. Is it a great deal of trust, some trust, not very much trust or none at all? Civil service.” The strong correlation ($R = 0.93$) indicates that TCS scores effectively capture variations in trust in civil service across country-years.

The middle panel plots our TCS score against the percentage who responded “Tend to trust.” to the question, “I would like to ask you a question about how much trust you have in certain institutions. For each of the following institutions, please tell me if you tend to trust it or tend not to trust it: Public administration in (OUR COUNTRY)” in the Eurobarometer 96.3 January-February 2022 module. This question is asked in the most countries, and the strong correlation demonstrates the broad applicability of the TCS scores in capturing trust across diverse contexts.

Finally, the right panel compares the trend of the longest item that has been asked since 1973 in U.S. General Social Survey, “I am going to name some institutions in this country. As far as the people running these institutions are concerned, would you say you have a great deal of confidence, only some confidence, or hardly any confidence at all in them? Executive branch of the federal government.” to the trend of the TCS scores. The TCS scores align with trends in trust in the executive branch over time, effectively capturing historical changes.



Note: Gray whiskers and shading represent 80% credible intervals.

Figure 5: Construct Validation: Correlations Between TCS Scores and Trust in Institutions Survey Items

Figure 5 presents three ‘external’ convergent validation tests, comparing TCS scores to responses to survey items that were *not* included in the source data: items that asked respondents’ confidence and trust in national government, parliament, and judiciary in their countries. In the left panel, we plot TCS score against data from seven rounds of World Value Survey, which asked respondents how much they trust their national government. The center plot shows data from European Values Surveys asking respondents’ confidence in parliament. The right presents the percentage of respondents who expressed at least some trust in judiciary in their country in Latinobarómetro. Our measure positively correlated with all of them, with a stronger correlation with trust in national government and mild correlation with trust in parliament and judiciary.

There is a longstanding debate about the dimensionality of political trust (Easton, 1965; Marien and Hooghe, 2011; Norris, 2011; Rothstein and Stolle, 2008; Tai, 2022). Trust in civil servants has been theoretically grouped within the same dimension as all three types of institutional trust (Hooghe, 2011; Marien and Hooghe, 2011), or one of them (Norris, 2011; Rothstein and Stolle, 2008; Tai, 2022). However, the variation in

correlations between TCS scores and trust in institutions requires empirical analysis of trust's dimensions.

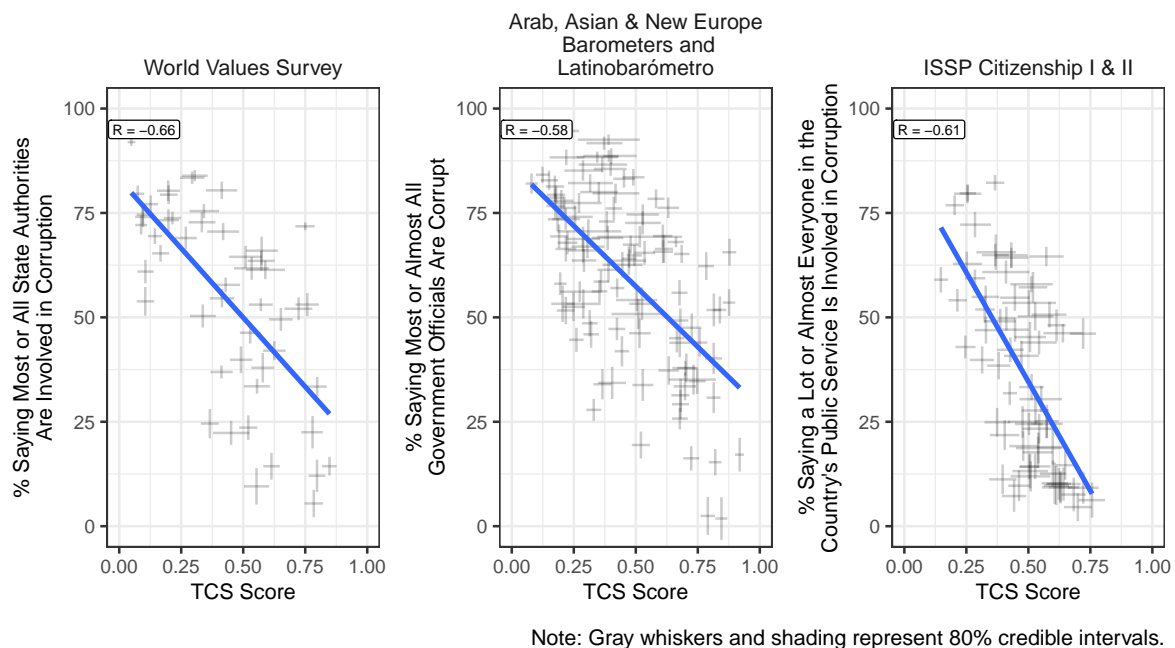


Figure 6: Construct Validation: Correlations Between TCS Scores and Corruption of Public Servants Survey Items

We next conduct tests of construct validation in Figure 6. Construct validation assesses whether a given indicator is empirically correlated with other indicators in a way that conforms to theoretical expectations (Adcock and Collier, 2001: 542). Corruption is often often argued as a likely contributor to distrust in civil servants and public administration (see, e.g., Anderson and Tverdova, 2003; Van de Walle and Migchelbrink, 2022; Van Ryzin, 2011).

The left panel compares perceived widespread of corruption, measured as the percentage of those saying most or state authorities are involved in corruption in seven waves of the WVS, with the TCS scores. As anticipated, there is a clear negative relationship between the spread of perceived corruption and the TCS scores: when there is widespread perception of corruption in authorities, the public tends to distrust civil servants. The similar negative correlations between TCS scores and perceived corruption among government officials are also perceived in the center and right panel of Figure 6, which used data from different

regions. The center panel shows the data in developing or newly democratic countries surveyed in the Asian Barometer, the New Europe Barometer, and the Latinobarometro, and the right panel displays the data in countries surveyed in the International Social Survey Programme Citizenship module (2004, 2014).

To sum up, the evidence of construct validation of TCS scores against the perceived extent of corruption in Figure 6, together with the evidence of external validation in Figure 5 and convergent validation in Figure 4, demonstrates the validity of the TCS scores as measures of the public’s trust in civil servants.

5 Explaining Trust in Civil Servants

With our time-series cross-national data on trust in civil servants, we combined both outcome and quality indicators to examine the factors influencing this trust. For outcome indicators, we followed previous studies and used GDP per capita, inflation, and unemployment from 1984 to 2022 as measures of macroeconomic performance. GDP per capita and inflation data were sourced from the International Monetary Fund, while unemployment data were collected from the World Bank, which uses modeled International Labour Organization estimates. Regarding income inequality, we relied on the Standardized World Income Inequality Database presented in Solt (2020b), specifically the Gini index of inequality in disposable income.

For quality of government indicators, we included the Corruption Perceptions Index from Transparency International, covering the years 1995 to 2022, to capture the perceived level of corruption. We also used the Government Effectiveness indicator from the World Bank’s Worldwide Governance Indicators, as it reflects the overall quality of public services, the civil service, and policy formulation and implementation.

To further leverage our trust data, we collected the number of intentional homicides at the country-year level from the United Nations Office on Drugs and Crime, capturing outcomes in public safety, given that macroeconomic outcomes do not represent government performance in other critical fields (Morelock, 2021; Van Ryzin, 2011). To account for the effect of democratic development on trust, we included the Liberal Democracy Index from

the V-Dem dataset (Coppedge et al., 2023; Pemstein et al., 2023).

We adopted a Bayesian multilevel model with varying intercepts for each country and each year. The varying intercepts for each country account for heteroskedasticity across countries, while those for each year account for ‘time shocks’ that impact all countries simultaneously (Shor et al., 2007). To differentiate between short-term and historical effects, we used the ‘within-between random effects’ specification as described by Bell and Jones (2015; see also Woo et al., 2023). This approach models, for each time-varying predictor, the time-invariant country mean alongside the time-varying difference from this mean for each country-year.

Finally, we addressed measurement uncertainty in the data for trust in bureaucracy, income inequality, and the Corruption Perceptions Index by incorporating it into the analysis (see Tai et al., 2024). The model was estimated using the **brms** R package (Bürkner, 2017).

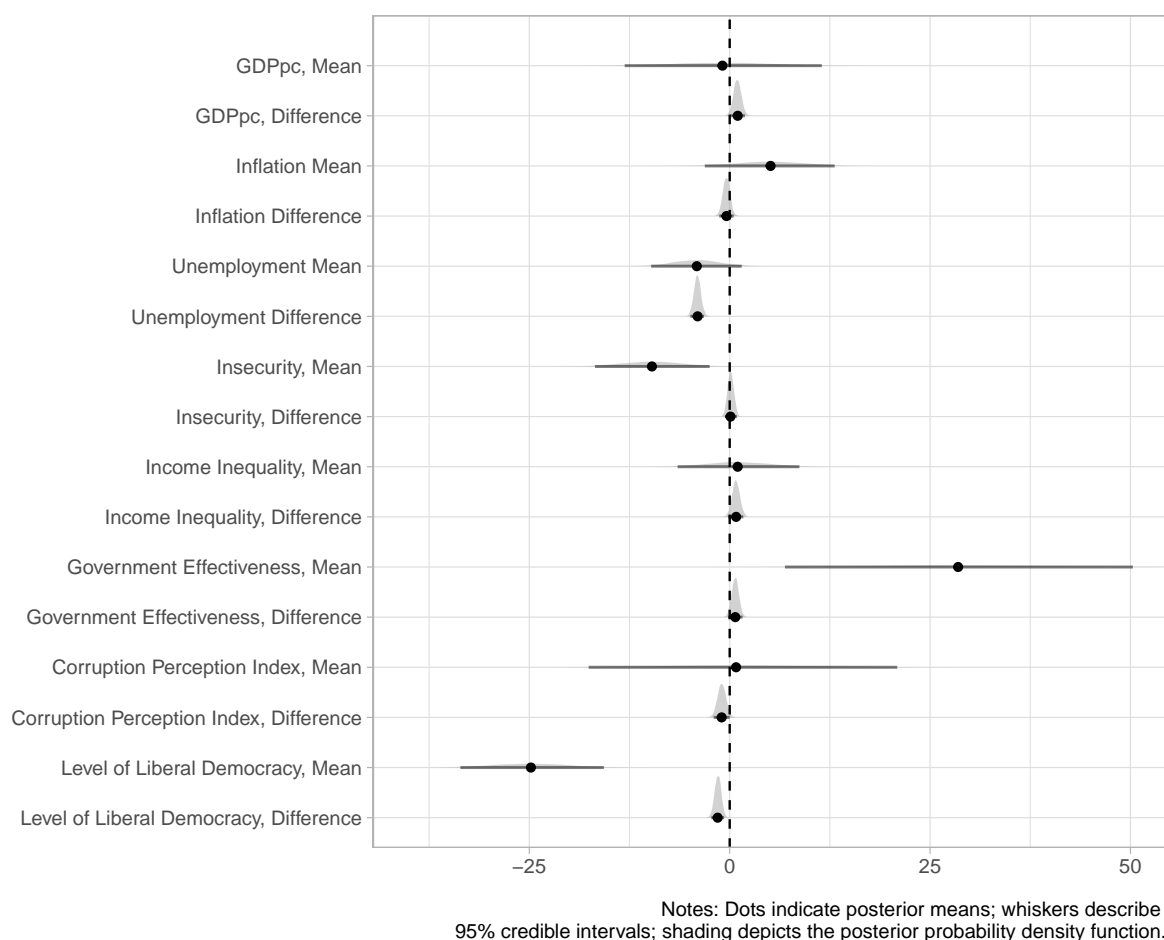


Figure 7: Predicting Trust in Civil Servants Across Countries Over Time

The results are presented in Figure 7. In terms of economic outcomes, the increase in GDP per capita is associated with a higher level of trust in civil servants in the short term. A two-standard-deviation year-to-year change in per capita income increases trust by 1 (95% c.i.: 0 to 1.9) point. This significant but relatively small effect suggests that GDP growth alone may not be sufficient to sustain high levels of trust in civil servants, given that economic growth may not transfer to effective resource management and service delivery.

Unemployment exhibits a strong negative effect on trust in civil servants, with a two-standard-deviation year-to-year increase in unemployment decreasing trust in civil servants by 4 (95% c.i.: -4.9 to -3.2) points. High unemployment rates can signal government inefficiency or failure to address critical economic challenges, eroding trust in civil servants.

In terms of public safety, the mean number of intentional homicides has a long-term negative impact on trust in civil servants. A two-standard deviation increase in a country's mean number of homicides is associated with 9.7 (95% c.i.: -16.8 to -2.5) points less trust. High levels of violence and insecurity can undermine public confidence in the administration's competence to uphold law and order, diminishing trust in its civil service (Berg and Johansson, 2016; Uddin, Forthcoming). We found no evidence that either inflation or income inequality significantly affects trust in civil servants in the short or long term, when other factors are controlled.

Regarding process, a higher government effectiveness score has a strong positive long-term effect on trust in civil servants. A two-standard deviation increase in a country's mean effectiveness score is associated with 28.5 (95% c.i.: 6.9 to 50.3) points more trust across countries. This finding suggests that improving the perceived quality of public services and policy formulation can lead to a sustained increase in trust. Coproduction of public value provides a compelling explanation, emphasizing how involving individuals in policy-making processes can strengthen trust in the public sector (Schmidhuber et al., 2021).

Although democratic capacity is found to mediate the relationship between government openness and public trust (Schmidhuber et al., 2021), we found the development of democracy is associated with less trust in civil servants, both in the long run and in the short term. Critical citizens in more democratic countries may trust civil servant only critically and have higher expectations of them (Norris, 1999). However, perceived corruption was not consistently associated with trust in civil servants in either the long term or short run; these estimates are close to zero.

We find evidence for arguments on both government outcomes and government quality. However, government quality, measured by mean government effectiveness—exert larger effects over long term than economic and public security outcomes like GDP per capita, unemployment, and insecurity. To sustain trust in civil servants, policymakers and practitioners should prioritize institutional reforms that enhance effectiveness and inclusiveness.

Discussion

The study of trust’s role in policy processes has long been hindered by the absence of comparable measures of trust in civil servants—key actors in policy implementation—across countries and over time. This gap has impeded efforts to identify the causes and consequences of bureaucratic trust, resulting in mixed findings regarding its origins and influence on policy support and implementation.

Using a state-of-the-art latent-variable model (Solt, 2020c), we develop a dynamic, comparative measure of trust in civil servants that uncovers significant variations both within and across countries. Our analysis reveals that while economic performance and public security influence trust in the short term, government quality and effectiveness in service delivery and policy implementation have more enduring effects.

While this study focuses on the sources of trust in civil servants, the publicly accessible TCS dataset also offers new opportunities to examine critical policy questions. Researchers can investigate how varying levels of trust affect policy implementation, citizen compliance with regulations, and public acceptance of policy interventions. The dataset’s longitudinal nature enables analysis of how changes in trust relate to policy reforms, implementation strategies, and policy outcomes. These applications are particularly relevant for complex policy challenges that require sustained public cooperation and support.

TCS is a useful resource for studying trust in civil servants, but it also has limitations. As a country–year aggregate, it can mask case-specific dynamics that are better interpreted with country expertise. In addition, the model-based smoothing needed to address sparse coverage implies measurement uncertainty; treating point estimates as error-free can distort downstream inferences (Tai et al., 2024). To support appropriate use, we release full posterior draws so researchers can incorporate uncertainty directly in subsequent analyses using established approaches (e.g., Caughey and Warshaw, 2018; Tai et al., 2024; Woo et al., 2025).

Despite these limitations, TCS advances research on trust and governance by enabling more comprehensive comparative analyses of the levels, trends, and correlates of trust in civil servants across countries and over time than has been feasible with prior data.

TCS offers a valuable resource for studying trust in civil servants, but it has limitations. As an aggregate-level measure, it may obscure subnational variation, polarization in trust, or case-specific dynamics that require country expertise and qualitative or mixed methods to illuminate. Second, the smoothing approach introduces measurement uncertainty, and ignoring uncertainty risks distorting inferences (Tai et al., 2024). We therefore release the full set of posterior draws, allowing researchers to propagate measurement uncertainty in downstream analyses using established strategies (see, e.g., Caughey and Warshaw, 2018; Tai et al., 2024; Woo et al., 2025).

Despite these limitations, TCS advances research on trust and governance by enabling more comprehensive comparative analyses of the levels, trends, and correlates of trust in civil servants across countries and over time than has been feasible with prior data.

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Trust in Civil Servants: A Cross-National Dataset for Public Policy Research, 1986–2022

Appendices

6 Appendix A: Survey Items Used to Estimate Trust in Civil Servants

National and cross-national surveys have often included questions tapping trusting attitudes over the past half-century, but the resulting data are both sparse, that is, unavailable for many countries and years, and incomparable, generated by many different survey items. In all, we identified 17 such survey items that were asked in no fewer than five country-years in countries surveyed at least twice; these items were drawn from 132 different survey datasets. These items are listed in the table below, along with the dispersion (α) and difficulty (β) scores estimated for each from the DCPO model. Question text may vary slightly across survey datasets, but not, roughly speaking, by more than the translation differences across languages found within the typical cross-national survey dataset. Lower values of dispersion indicate questions that better identify publics with a higher level of trust from those with lower. Items have one less difficulty score than the number of response categories. Survey dataset codes correspond to those used in the `DCPOtools` R package; they appear in decreasing order of country-years contributed.

Together, the survey items in the source data were asked in 98 different countries in at least two time points over 36 years, from 1973 to 2022, yielding a total of 1,814 country-year-item observations. The TCS scores of country-years with more observed items are likely to be estimated more precisely. The estimates for country-years with fewer (or no) observed items rely more heavily (or entirely) on the random-walk prior and are therefore less certain.

Table A1: Indicators Used in the Unidimensional Latent Variable Model of Democratic Support

Survey Item Code	Country-Years	Question Text	Response Categories	Dispersion	Difficulties	Survey Dataset Codes
trust4	614	And how much trust do you have in... Civil service / public administration	1 A great deal of trust / 2 Quite a lot of trust / 3 Not a lot of trust / 4 No trust at all	0.88	-1.39, 1.00, 3.86	evs, wvs, ases, lb, bsa, asianb, eass, itanes, kgss, sasianb, arabb
trust2	348	I would like to ask you a question about how much trust you have in certain institutions. For each of the following institutions, please tell me if you tend to trust it or tend not to trust it? Civil service	1 Tend to trust / 2 Tend not to trust	1.13	0.79	eb, cceb
runswell4	197	How would you judge the current situation in each of the following? The way public administration runs in	1 Very good / 2 Rather good / 3 Rather bad / 4 Very bad		NA	eb
right5	109	Most of the time we can trust people in government to do what is right.	1 Strongly agree / 5 Strongly disagree	0.85	-1.11, 0.65, 2.00, 4.66	issp, usgss
best5	94	Most government administrators	1 Strongly agree / 5 Strongly disagree	1.24	-1.61, 0.53, 2.32, 5.65	issp, usgss, kgss
image4	89	Could you please tell me for each of the following, whether the term brings to mind something very positive, fairly positive, fairly negative or very negative. Public administration	1 Very positive / 2 Fairly positive / 3 Fairly negative / 4 Very negative	0.83	-1.80, 0.30, 3.03	eb
trustmun4	81	Generally speaking, the public administration of [CITY NAME] can be trusted	1 Strongly agree / 4 Strongly disagree		NA	feb, lb
trustff4	73	Please look at this card and tell me how much confidence you have in each of the following groups, institutions or persons mentioned on the list: a lot, some, a little or no confidence? Firefighters	1 A lot / 2 Some / 3 A little / 4 None		NA	lb
right4	60	You can generally trust the people who run our government to do what is right.	1 Strongly agree / 4 Strongly disagree	0.54	-0.58, 1.18, 3.44	asianb
trust3	32	Trust in Ministries and Government Agencies	1 Very much / 2 Some / 3 Not very much	1.02	-0.02, 3.02	usgss, jgss
trusteuro2	30	If you would trust information they provide on the changeover to the euro: Public administration	1 trust / 2 do not trust		NA	feb
trustpollution5	26	How much trust do you have in each of the following groups to give you correct information about causes of pollution? Government departments	1 A great deal of trust / 2 Quite a lot of trust / 3 Some trust / 4 Not much trust / 5 Hardly any trust		NA	issp
trust5	23	Confidence in the Civil Service?	1 Complete confidence / 2 A great deal of confidence / 3 Some confidence / 4 Very little confidence / 5 No confidence at all	0.54	-0.81, 0.41, 1.88, 3.38	issp, gles, fsdtrust, fsdeva, bsa

(continued)

Survey Item Code	Country-Years	Question Text	Response Categories	Dispersion	Difficulties	Survey Dataset Codes
trust11	16	Now, thinking about institutions like Parliament, please use the scale of 0 to 10 to indicate how much trust you have for each of the following, where 0 is no trust and 10 is a great deal of trust:	0 No trust / 10 A great deal of trust	0.56	-1.36, -1.01, -0.55, -0.08, 0.32, 1.04, 1.50, 2.15, 3.11, 3.96	cid, fsdelection, bes
right4a	10	In general, do you feel that the people in government are too often interested in looking after themselves, or do you feel that they can be trusted to do the right thing nearly all the time?	1 Usually look after themselves / 2 Sometimes look after themselves / 3 Sometimes can be trusted to do the right thing / 4 Usually can be trusted to do the right thing	0.81	0.48, 1.49, 2.93	aes
interests7	8	To what extent do you trust each of these political institutions to look after your interests? Civil servants	1 No trust / 7 Great trust	0.40	-1.14, 0.20, 0.84, 1.53, 2.86, 3.46	neb
trustmun7	4	Please tell me for each institution or organisation how much trust you place in it. The municipal administration	1 Absolutely no trust at all / 23456 / 7 A great deal of trust		NA	allbus

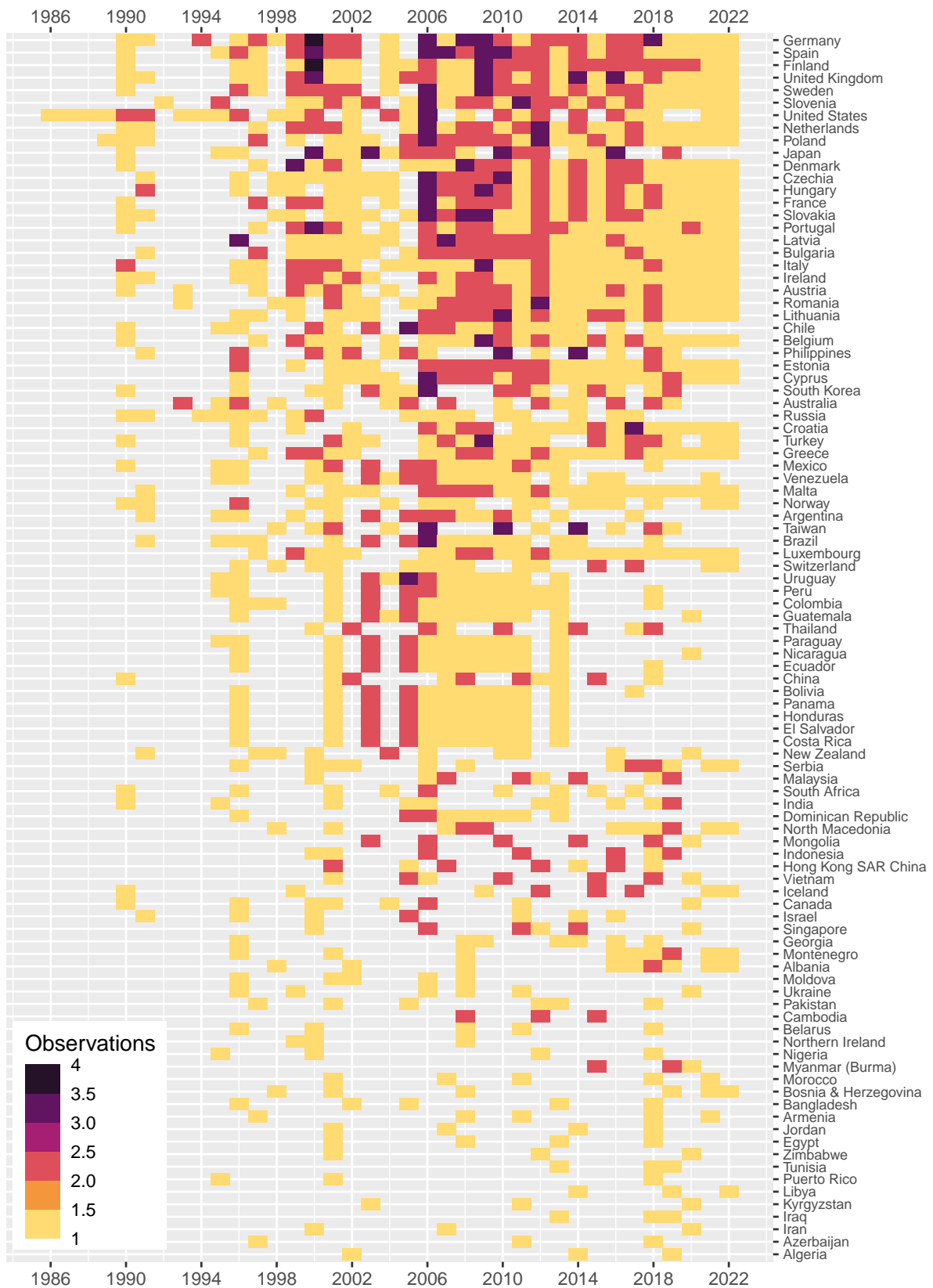


Figure A1: Source Data Observations by Country and Year

7 Appendix B: The DCPO Model

A number of recent studies have developed latent variable models of public opinion based on cross-national survey data (Caughey et al., 2019; see Claassen, 2019; Kolczynska et al., 2020; McGann et al., 2019). To estimate trust in civil servants across countries and over time, we employ the latest of these methods that is appropriate for data that is not only incomparable but also sparse, the Dynamic Comparative Public Opinion (DCPO) model elaborated in Solt (2020c).¹ The DCPO model is a population-level two-parameter ordinal logistic item response theory (IRT) model with country-specific item-bias terms.

DCPO models the total number of survey responses expressing at least as much trust in civil servants as response category r to each question q in country k at time t , y_{ktqr} , out of the total number of respondents surveyed, n_{ktqr} , using the beta-binomial distribution:

$$a_{ktqr} = \phi \eta_{ktqr} \quad (5)$$

$$b_{ktqr} = \phi(1 - \eta_{ktqr}) \quad (6)$$

$$y_{ktqr} \sim \text{BetaBinomial}(n_{ktqr}, a_{ktqr}, b_{ktqr}) \quad (7)$$

where ϕ represents an overall dispersion parameter to account for additional sources of survey error beyond sampling error and η_{ktqr} is the expected probability that a random person in country k at time t answers question q with a response at least as positive as response r .²

This expected probability, η_{ktqr} , is in turn estimated as follows:

$$\eta_{ktqr} = \text{logit}^{-1}\left(\frac{\bar{\theta}'_{kt} - (\beta_{qr} + \delta_{kq})}{\sqrt{\alpha_q^2 + (1.7 * \sigma_{kt})^2}}\right) \quad (8)$$

In this equation, β_{qr} represents the difficulty of response r to question q , that is, the degree of trust in civil servants the response expresses. The δ_{kq} term represents country-specific item bias: the extent to which all responses to a particular question q may be more (or less) difficult in a given country k due to translation issues, cultural differences in response styles, or other idiosyncrasies that render the same survey item not equivalent across countries.³ The dispersion of question q , its noisiness in relation to our latent

¹Solt (2020c) demonstrates that the DCPO model provides a better fit to survey data than the models put forward by Claassen (2019) or Caughey et al. (2019). The McGann et al. (2019) model depends on dense survey data unlike the sparse data on trust in civil servants described in the preceding section. Kolczynska et al. (2020) is the very most recent of these five works and builds on each of the others, but the MRP approach developed in that piece is suitable not only when the available survey data are dense but also when ancillary data on population characteristics are available, so it is similarly inappropriate to this application.

²The ordinal responses to question q are coded to range from 1 (expressing the least trust in civil servants) to R (expressing the most trust in civil servants), and r takes on all values greater than 1 and less than or equal to R .

³Estimating δ_{kq} requires repeated administrations of question q in country k , so when responses to question q are observed in country k in only a single year, the DCPO model sets δ_{kq} to zero by assumption, increasing the error of the model by any country-item bias that is present. Questions that are asked repeatedly over time in only a single country pose no risk of country-specific item bias,

variable, is α_q . The mean and standard deviation of the unbounded latent trait of trust in civil servants are $\bar{\theta}'_{kt}$ and σ_{kt} , respectively.

Random-walk priors are used to account for the dynamics in $\bar{\theta}'_{kt}$ and σ_{kt} , and weakly informative priors are placed on the other parameters.⁴ The dispersion parameters α_q are constrained to be positive and all survey responses are coded with high values indicating more trust in civil servants to fix direction. For each question q the difficulties for increasing response categories r are constrained to be increasing. The sum of δ_{kq} across all countries k is set to zero for each question q :

$$\sum_{k=1}^K \delta_{kq} = 0 \quad (9)$$

Finally, the logistic function is used to transform $\bar{\theta}'_{kt}$ to the unit interval and so give the bounded mean of latent trust in civil servants, $\bar{\theta}_{kt}$, which is our parameter of interest here (see Solt, 2020c: 3–8).

The DCPO model accounts for the incomparability of different survey questions with two parameters. First, it incorporates the *difficulty* of each question’s responses, that is, how much trust in civil servants is indicated by a given response. That each response evinces more or less of our latent trait is most easily seen with regard to the ordinal responses to the same question: strongly agreeing with the statement “Most government administrators (civil servants) can be trusted to do what is best for the country,” exhibits more trust in civil servants than simply agreeing, which shows more trust than responding “disagree,” which in turn is a more trusting response than “strongly disagree.” But this is also true across questions. Second, the DCPO model accounts for each question’s *dispersion*, its noisiness with regard to our latent trait. The lower a question’s dispersion, the better that changes in responses to the question map onto changes in trust in civil servants. Together, the model’s difficulty and dispersion estimates work to generate comparable estimates of the latent variable of trust in civil servants from the available but incomparable source data.

To address the sparsity of the source data—the fact that there are gaps in the time series of each country, and even many observed country-years have only one or few observed items—DCPO uses simple local-level dynamic linear models, i.e., random-walk priors, for each country. That is, within each country, each year’s value of trust in civil servants is modeled as the previous year’s estimate plus a random shock. These dynamic models smooth the estimates of trust in civil servants over time and allow estimation even in years

so δ_{kq} in such cases are also set to zero.

⁴The dispersion parameters α_q are drawn from standard half-normal prior distributions, that is, the positive half of $N(0, 1)$. The first difficulty parameters for each question, β_{q1} , are drawn from standard normal prior distributions, and the differences between β s for each r for the same question q are drawn from standard half-normal prior distributions. The item-bias parameters δ_{kq} receive normally-distributed hierarchical priors with mean 0 and standard deviations drawn from standard half-normal prior distributions. The initial value of the mean unbounded latent trait for each country, $\bar{\theta}'_{k1}$, is assigned a standard normal prior, as are the transition variances $\sigma_{\theta'}^2$ and σ_{σ}^2 ; the initial value of the standard deviation of the unbounded latent trait for each country, σ_{k1} , is drawn from a standard lognormal prior distribution. The overall dispersion, ϕ , receives a somewhat more informative prior drawn from a gamma(4, 0.1) distribution that yields values that are well scaled for that parameter.

for which little or no survey data is available, albeit at the expense of greater measurement uncertainty.