

Hands-on the 9,560 data points of the Global Data Barometer's Public Finance Module: A step-by-step guide

The Global Data Barometer (GDB) is an exciting tool for understanding the state of data for the public good. The GDB works as a repository that enables anyone to access more than 1,100 datasets and 900 regulations from 109 countries and jurisdictions worldwide. Thanks to the work of the GDB team, partners, and more than 100 researchers, the GDB collected over 60,000 data points and organized them through 4 pillars, 2 core modules, and 7 thematic modules (Public Finance -PF-, Public Procurement, Land, Health and COVID-19, Political Integrity, Climate Action, Company Information).

The release of the GDB databases presents many opportunities to be explored by data enthusiasts worldwide. As a result, the GDB team published the "Dig Deeper" blog series. The <u>first article</u> contains an introduction to the structure of the GDB, and the <u>second article</u> reviews questions you can answer using the GDB data. Next, the Global Initiative for Fiscal Transparency (GIFT) team developed the blog "<u>Advocating for accurate, timely, and trustworthy fiscal information</u>" to explore broad global trends from the results of the Public Finance (PF) module.

To continue mining into the depths of this great well of information for the public good, the GIFT team built this step-by-step guide for the PF module. It aims to facilitate understanding and use of the PF module, from downloading the database to answering specific concerns from stakeholders such as government officials, legislators, journalists, the organized civil society, academics, students, data enthusiasts, and anyone interested in the power of public financial data for the public good.

What is the Global Data Barometer (GDB)?

The GDB is a multi-dimensional and multi-layered study that created a new global data benchmark. To achieve this, it carried out an expert survey and used secondary indicators to generate the metrics. The expert survey was carried out from May 2019 until May 2021 that evaluated 109 countries in 4 pillars: data governance, capability, availability, and use and impact of data. The GDB website enables users to <u>access online tools and visualizations</u> to present results and showcases <u>124 open databases</u> divided by thematic modules, country, and region, to review the full questionnaires and information gathered by the country researchers, including direct links to the primary sources.

What is the Public Finance (PF) Module?

The Public Finance (PF) Module results from the collaboration between GIFT and GDB. It aims to establish a baseline for governments' collection, management, and reporting of Public Financial data. The PF Module database contains information from 109 countries, 9,560 data points with 259 specific examples of public finance legal frameworks, and 760 datasets of public finance information worldwide. All the data of the PF Module was collected through 40

questions, each of them feeding a particular pillar: "governance" and "availability." The following table explains the approach of each indicator for the assessment.

Governance	Availability
Evaluate the existence and comprehensiveness of regulatory frameworks that mandate structured information disclosure requirements.	Evaluate the level of openness and public access to structured, machine-readable information.
13 questions Evaluates legal frameworks favoring the publication of 5 key budget documents.	27 questions Evaluates the availability of 2 key-budget documents, 4 budget classifications, and 6 data disaggregation.
Documents/Data: Executive's Budget Proposal, Enacted Budget, In-Year Reports, Year-End Report, and Budget execution legal frameworks requiring publication in their most disaggregated version	Documents/Data: Executive's Budget Proposal, Budget Amendments, Enacted Budget, Spending, Extrabudgetary Funds, Spending of Public Corporations, Existence of administrative, economic, functional, and programmatic classifications
The evaluation considers the following:	The evaluation considers the following:
 There are laws that require the collection, publication, and discussion of structured budget information. There are laws that require the publication of open data. Existence of an auditing/verification process. Budget information is timely updated There are no significant exceptions to collecting and publishing budget information. 	 All budget documents are available on economic, administrative, and functional classifications according to international standards. Data is open, free, timely, historical, and machine-readable. Considers disaggregation by cross-cutting themes or SDGs, with identifiers linking budget information to performance indicators and/or investment projects.

With this guide...

Any activist, academic, student, public servant, or interested person will unlock the power of the GDB Public Finance Module and understand how governments are approaching public finance data worldwide. By following this guide, you will be able to access the Public Finance Module database; build the global rankings from the PF Module global scores, and for the scores of each indicator, know what your country needs to improve (legal frameworks or data availability); access the full evaluation of any country and identify the highest and lowest scoring questions; finally, you will be able to review the results of all countries on a specific question to take a look on better practices, regional and global trends in legal frameworks and data publication.

You can go further into your analysis, complementing the PF Module data with the information of other tools, such as the <u>Open Budget Survey 2021</u>. Furthermore, the insights from this guide can exponentially grow if we include public participation. The GIFT network has the enriching experience of the <u>#BetterBudgetDataquest</u> for Sustainable Development and

<u>#RallyFromHome</u> on Public Infrastructure Data that pushes for the collaboration between the government and the public to improve the tools, data, and use of public finance information.

Who can use this information?

- Officials at all levels of government (ministries of finance, line ministries, subnational governments) who aim to access data for evidence-based decision making, who want to identify quantifiable windows of opportunity in public financial management, and monitor the effectiveness of public policies, as well as to be inspired by international practice to take action today.
- **Legislators** to explore windows of opportunity on laws, norms, and official guides to guarantee the publication of open fiscal data.
- **Journalists** looking for sources of information on public financial data, legal frameworks, and fiscal policy trends, as well as to make comparative analyses between countries.
- **Developers, data scientists, and data enthusiasts** looking for a new challenge in organizing, extracting, and interpreting data, creating visualizations, or identifying trends with social impact.
- **Civil society organizations** that carry out the timely analyses required to make effective proposals for improvements in legal frameworks and monitor the government's allocation of resources to hold them accountable, offer alternatives, and communicate their findings to the public.
- Academia and students as a basis for their analyses on public finance legal frameworks, data publication, and worldwide transparency and spending decisions. Detect trends and windows of opportunity to build innovative research and address the challenges worldwide.
- **The public** can access specific laws, databases, and documents to build an informed public opinion, engage with their governments in the budget cycle, and participate in budget decision-making.

Accessing the PF Module Database

Before you continue reading this document, we encourage you to familiarize yourself with the <u>Main Site of the Public Finance Module</u>, in which you can find the questions assessed in each indicator. Also, you can have first-hand interaction with the released database through the <u>"Results" page</u>. Lastly, take a close look at the <u>database documentation here</u>.

Now we are ready to go!

It is important to consider that this guide will be based on using the database with *Microsoft Excel* and *Python 3 (IDE: Spyder 5.1.5)*. You can access the <u>filtered databases here</u>.

Step 1

The first step is to access the <u>Global Data Barometer Website</u> (<u>https://globaldatabarometer.org</u>). The website requires you to accept/deny cookies.





Data for public good

The Barometer is a multi-dimensional and multi-layered study that assessed the state of data for public good in 109 countries. An expert survey was conducted from May 2019 – May 2021 to create a new global benchmark that looks at data governance, capability, availability, and use and impact of data for public good. You may explore and view the data, through its core (e.g. governance and capability) or thematic modules (e.g. climate action, land, public procurement) as well as on a country-level. Learn more about the data structure here.

Step 2

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Next, access the top-right menu and select the "Results " option, then click on the <u>"Open</u> <u>Data"</u> option. This option will drive you to a new webpage.

About	Research	Results	News & Stories	FAQs	M	Q
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Step 3

On this web page, go to the section "Data by Module," located in the bottom-left area. Then click on the option "Public Finance".

The database will be automatically downloaded as a CSV (comma-separated values) file.

GLOBAL INITIATIVE re FISCAL TRANSPARENCY			
Global Data Barometer		About	Research Results News & Stories 🔀 FAQs 🔀 Q
Data by Module	Data by Country		Data by Region
Choose a module to download the dataset and explore it in-depthly.	Choose a country to download all the data colle	cted.	Choose a region to download all the data of the countries involved.
> Capabilities	Africa	~	> Africa
> Climate action	Latin America and the Caribbean	~	> Eastern Europe and Central Asia
> Company information			> EU, UK, North America, Israel, Australia and New Zealand
> Governance	Eastern Europe and Central Asia	~	> Latin America and the Caribbean
> Land	EU, UK, North America, Israel, Australia and	~	> Middle East and North Africa
> Political integrity	New Zealand		> South and East Asia
> Procurement	South and East Asia	~	
> Public finance	Middle East and North Africa	~	
			9

Step 4

Finally, open the CSV file with Microsoft Excel (you can also open it with your open-sourced spreadsheet parser or data processor of choice). We recommend saving it as an XLS file (excel spreadsheet file), so you can save your progress.

You can access the database through your preferred IDE and programming language. This time, we will use Python and the library pandas with the IDE *Spyder* (5.1.5).

import pandas as pd

pfmodule dataframe = pd.read csv('gdb pfmodule.csv')

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Which are the highest and lowest scores?

You were successful in downloading the <u>Public Finance Module Database</u>! Now it is time to get down to work. The first task is to build the country ranking for the global scores of the PF Module. Next, you will produce the country ranking with the availability and governance indicators scores.

Task 1: PF Module World Rank

Step 1

The first step is getting each country's PF Module score. You can do this by filtering the column "hierarchy level" through the "0" value.

After applying the filter, you can see the PF Module score for each country in the column "score."

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54 ALB	Aligoia		PUBLIC FI			Module			0						38.251875	
55 ARE	United Arab	Emirator	PUBLIC FI			Module			0						14.6839	
56 ARG	Argentina	/ cillinates	PUBLIC FI			Module			0						66.54465	
57 ARM	Argentina		PUBLIC FI			Module			0						88.274	
58 AUS	Australia		PUBLIC FI			Module			0						69.845375	
9 AZE	Azerbaijan		PUBLIC FI			Module			0						38.391975	
BEN	Benin		PUBLIC FI			Module			0						29.84715	
1 BFA	Burkina Fas	0	PUBLIC FI			Module			0						30,46615	
2 BGD	Bangladesh		PUBLIC FI			Module			0						29.678	
3 BGR	Bulgaria		PUBLIC FI			Module			0						80.240375	_
4 BHR	Bahrain		PUBLIC FI			Module			0						14.2725	
5 BHS	Bahamas		PUBLIC FI	NANCE		Module			0						24.41895	;
6 BLR	Belarus		PUBLIC FI	NANCE		Module			0						37,1235	5
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9 BRA	Brazil		PUBLIC FI	NANCE		Module			0						71.44875	;
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1 CAN	Canada		PUBLIC FI	NANCE		Module			0						84.033	3
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3 CHN	China		PUBLIC FI	NANCE		Module			0						35.826	j
4 CIV	CÃ'te d'Ivoi	re	PUBLIC FI	NANCE		Module			0						44.958875	5

Step 2

To order your list of countries from the highest score to the lowest score, you will need to arrange the column "score" values from highest to lowest (Descending).

You now have an ordered list showing each country's highest and lowest scores. In this <u>spreadsheet</u>, you can access the extract of the database you created in the sheet Task 1 PF Rank^[1].

You can execute the following code lines to achieve Task 1:

As a result, you will have the following data frame:



A		В	С	D	E	F	G	н	1	J	K	L	M	N	0	P	
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53 FRA	F	rance		PUBLIC FINA	NCE		Module			0						93.8125	
54 ZAF	S	South Africa		PUBLIC FINA	ANCE		Module			0						93.475	
55 MEX	N	Nexico		PUBLIC FINA	NCE		Module			0						93.42075	
56 ARM	A	Armenia		PUBLIC FINA	NCE		Module			0						88.274	
57 DEU	G	Germany		PUBLIC FINA	ANCE		Module			0						87.11	
58 KOR	R	Republic of	Korea	PUBLIC FINA	NCE		Module			0						84.6297	
59 CAN	C	Canada		PUBLIC FINA	NCE		Module			0						84.033	
160 USA			es of America				Module			0						82.71585	
I61 IDN		ndonesia		PUBLIC FINA			Module			0						80.9442	
62 BGR		Bulgaria		PUBLIC FINA			Module			0						80.240375	
463 CZE		Czechia		PUBLIC FINA			Module			0						78.988	
164 RUS		Russian Fed	eration	PUBLIC FINA			Module			0						78.623125	
165 EST		stonia		PUBLIC FINA			Module			0						76.8505	
66 PER		Peru		PUBLIC FINA			Module			0						76.73325	
467 GTM		Suatemala		PUBLIC FINA			Module			0						74.9375	
468 PRY		Paraguay		PUBLIC FINA	NCE		Module			0						74.588125	
469 NZL		New Zealan	d	PUBLIC FINA			Module			0						74.06875	
470 ITA		taly		PUBLIC FINA			Module			0						72.6775	
471 HRV		Croatia		PUBLIC FINA			Module			0						72.559825	
472 MYS		Malaysia		PUBLIC FINA			Module			0						72.351	
73 HND		Ionduras		PUBLIC FINA			Module			0						71.46105	
474 BRA	В	Brazil		PUBLIC FINA	NCE		Module			0						71.44875	

How can you interpret this information?

The PF Module World Rank enables you to:

- → Compare the full set of countries based on their score on the PF Module.
- → Based on a quantitative evaluation, understand your countries' practices regarding public finance, and assess whether those are fulfilling international standards and how advanced they are.
- → Know which countries have advanced practices and use those as points of reference to work for, push, request, and communicate better practices for your country.

Task 2: Availability Indicator World Rank

Step 1

First, you need to access the final scores for the availability indicator. To do so, filter the column "indicator_name" and select the " Availability (PF): Budget and spend data " option.

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XKX Kosovo Availability PUBLIC FINA A.P.F.BUDGE Availability (Primary A.P.F.BUDGE Data fields a 3 response 0 20 XKX Kosovo Availability PUBLIC FINA A.P.F.BUDGE Availability (Primary A.P.F.BUDGE Budget entri 4 response No 0 2.5 XKX Kosovo Availability PUBLIC FINA A.P.F.BUDGE Availability (Primary A.P.F.BUDGE Budget entri 4 response No 0 0 2.5 XKX Kosovo Availability PUBLIC FINA A.P.F.BUDGE Availability (Primary A.P.F.BUDGE Budget entri 4 response No 0 0 2.5 XKX Kosovo Availability PUBLIC FINA A.P.F.BUDGE Availability (Primary A.P.F.BUDGE Budget entri 4 response No 0 0 2.5 XKX Kosovo Availability PUBLIC FINA A.P.F.BUDGE Availability A.P.F.BUDGE Information 4 response No 0 0 2.5 XKX Kosovo Availability PUBLIC FINA A.P.F.BUDGE Availability A.P.F.BUDGE Information 4 response No 0 0 <td< td=""><td>ХКХ</td><td>Kosovo</td><td>Availability</td><td>PUBLIC FIN</td><td>NA A.PF.BUDG</td><td>E[•]Availability</td><td>(Primary</td><td>A.PF.BUDGE</td><td>There is stru</td><td></td><td>4 response</td><td>Yes</td><td>2</td><td>2 1</td><td>. 2.8</td><td>4 2.8</td><td>4 A.PF</td></td<>	ХКХ	Kosovo	Availability	PUBLIC FIN	NA A.PF.BUDG	E [•] Availability	(Primary	A.PF.BUDGE	There is stru		4 response	Yes	2	2 1	. 2.8	4 2.8	4 A.PF
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Then filter the column "hierarchy_level" by the level "1".

1		√ fx	indicator_nan	ne												
Α	В	С	D	E	F	G	н	I.	J	K	L	М	N	0	Р	
iso3	r country 🔻	pillar 💌	module 💌	indicator_ 💌	indicator 🔳	indicator_ 💌	variable_r 💌	question 💌	hierarchy 🗊	data_type 👻	response 💌	response 💌	normalize 💌	weight	* score	 pare
ХКХ	Kosovo	Availability	PUBLIC FINA	A.PF.BUDGE	Availability (Primary	A.PF.BUDGE	To what exte	1	response					46.8	86 A.PF
ХКХ	Kosovo	Availability	PUBLIC FINA	A.PF.BUDGE	Availability (Primary	A.PF.BUDGE	To what exte	1	justification	The budget a	ind spending	information (budget ex	ecution) is av	ai A.PF
BHS	Bahamas	Availability	PUBLIC FINA	A.PF.BUDGE	Availability (Primary	A.PF.BUDGE	To what exte	1	response					31	.2 A.PF
BHS	Bahamas	Availability	PUBLIC FINA	A.PF.BUDGE	Availability (Primary	A.PF.BUDGE	To what exte	1	justification	The					A.PF
BHS	Bahamas	Availability	PUBLIC FINA	A.PF.BUDGE	Availability (Primary	A.PF.BUDGE	1	1	example	[The Annual	Budget](http	s://www.bah	amasbudg	et.gov.bs/)	A.PF
BLZ	Belize	Availability	PUBLIC FINA	A.PF.BUDGE	Availability (Primary	A.PF.BUDGE	To what exte	1	response					12.1	15 A.P
BLZ	Belize	Availability	PUBLIC FINA	A.PF.BUDGE	Availability (Primary	A.PF.BUDGE	To what exte	1	justification	Belize					A.P
DOM	Dominican R	Availability	PUBLIC FINA	A.PF.BUDGE	Availability (Primary	A.PF.BUDGE	To what exte	1	response					78.1	15 A.PI
DOM	Dominican R	Availability	PUBLIC FINA	A.PF.BUDGE	Availability (Primary	A.PF.BUDGE	To what exte	1	justification	DIGEPRES is					A.P
GUY	Guyana	Availability	PUBLIC FINA	A.PF.BUDGE	Availability (Primary	A.PF.BUDGE	To what exte		response						56 A.P
GUY		,	PUBLIC FINA	A.PF.BUDGE	Availability (Primary	A.PF.BUDGE	To what exte	1	justification	Reports and	policies revie	ewed does no	t state that	t the governm	ie A.P
HTI	Haiti	Availability	PUBLIC FINA	A.PF.BUDGE	Availability (Primary	A.PF.BUDGE	To what exte	1	response					44.49	99 A.P
HTI	Haiti	Availability	PUBLIC FINA	A.PF.BUDGE	Availability (Primary	A.PF.BUDGE	To what exte	1	justification						A.P
HTI	Haiti	Availability	PUBLIC FINA	A.PF.BUDGE	Availability (Primary	A.PF.BUDGE	1	1	example	[MEF data pa	ge](http://w	ww.mef.gouv	<pre>.ht/index.</pre>	.php?page=De	eri A.Pl
JAM	Jamaica	Availability	PUBLIC FINA	A.PF.BUDGE	Availability (Primary	A.PF.BUDGE	To what exte	1	response					55	.2 A.P
JAM	Jamaica	Availability	PUBLIC FINA	A.PF.BUDGE	Availability (Primary	A.PF.BUDGE			justification	The					A.P
LCA			PUBLIC FINA	A.PF.BUDGE	Availability (Primary	A.PF.BUDGE		1	response						0 A.PI
LCA	Saint Lucia	Availability	PUBLIC FINA	A.PF.BUDGE	Availability (Primary	A.PF.BUDGE	To what exte	1	justification	There used					A.P
πо	Trinidad and	Availability	PUBLIC FINA	A.PF.BUDGE	Availability (Primary	A.PF.BUDGE	To what exte	1	response					56.8	86 A.P
πο	Trinidad and	Availability	PUBLIC FINA	A.PF.BUDGE	Availability (Primary	A.PF.BUDGE	To what exte	1	justification	A					A.P
πо	Trinidad and	Availability	PUBLIC FINA	A.PF.BUDGE	Availability (Primary	A.PF.BUDGE	1	1	example					ance.gov.tt/w os://www.fina	

And finally, filter the column "score" by all cells with values (avoiding empty values).

	А	В	6	D	F	F	G	н			к		м	N	0	P	
1			ullar -		E.					J.		L					pare
	iso3 XKX	 			indicator 💌			A.PF.BUDGE				response *	response_*	normalize *	weight	✓ score 46.86	
	KKX BHS	Kosovo			A A.PF.BUDGE A A.PF.BUDGE				To what ext		L response						A.PF
	BLZ	Bahamas Belize									L response						
	DOM				A A.PF.BUDGE A A.PF.BUDGE		· ·	A.PF.BUDGE	To what ext		L response					12.15	
			,						To what ext		L response					78.15	
	GUY	Guyana			A A.PF.BUDGE		· ·			-	L response						
	HTI	Haiti			A A.PF.BUDGE				To what ext		L response					44.499	
	JAM	Jamaica			A A.PF.BUDGE		· ·	A.PF.BUDGE			L response						A.PF
	LCA	Saint Lucia			A A.PF.BUDGE		· ·		To what ext To what ext		L response					56.86	A.PF
	по				A A.PF.BUDGE						L response						
	GEO	U U			A A.PF.BUDGE		· ·		To what ext To what ext		L response					70.62	
	OMN	Oman			A A.PF.BUDGE		· ·				L response						A.PF
	PSE				A A.PF.BUDGE				To what ext		L response					16.065	
	EGY	Egypt			A A.PF.BUDGE		· ·	A.PF.BUDGE		-	L response					36.19	
	JOR	Jordan			A A.PF.BUDGE				To what ext		L response					19.51	
	DNK	Denmark			A A.PF.BUDGE				To what ext		L response						A.PF
	EST	Estonia			A A.PF.BUDGE		· ·	A.PF.BUDGE			L response					73.66	
	FIN	Finland			A A.PF.BUDGE				To what ext		l response					65.403	
	FRA	France			A A.PF.BUDGE				To what ext		L response					88.75	
	DEU	Germany			A A.PF.BUDGE		· ·		To what ext		L response						A.PF
	IRL	Ireland			A A.PF.BUDGE				To what ext		L response					42.049	
	ITA	Italy			A A.PF.BUDGE				To what ext		l response					77.65	
748	LVA	Latvia	Availability	PUBLIC FINA	A A.PF.BUDGE	Availability	(Primary	A.PF.BUDGE	To what ext	e 1	L response					81.48	A.PF

Thanks to these filters, you can see the score for the availability indicator in the column "score".

Step 2

Now, to obtain the ordered list of countries, arrange the column "score" from highest to lowest. Now, you have an ordered list showing each country's availability indicator score ordered from highest to lowest. You can access the extract of the database you created in the sheet Task 2 Availability Rank^[2] in this database.

You can execute the following code lines to achieve Task 2:



availability ranking df =

availability ranking sorted.dropna(subset=["score"])

As a result, you will have the following data frame:

A		В	С	D		E	F	G	н		1	J	К	L	M	N	0	P	
iso3	-	country 💌	pillar 🔹	module	▼ ir	ndicator	indicator 🖓	indicator_ •	variable_	💌 ques	stion 💌	hierarchy 🗊	′ data_type 🔻	response 💌	response	🔹 normalize 👻	weight	score IT	pare
2 ZAF		South Africa	Availability	PUBLIC FI	NA A	.PF.BUDGE	Availability	(Primary	A.PF.BUD	GET TO W	hat exte	1	response					100	A.PF
5 MEX		Mexico	Availability	PUBLIC FI	NA A	.PF.BUDGE	Availability	(Primary	A.PF.BUD	GE To w	hat exte	1	response					98.58	A.P
8 NZL		New Zealand	Availability	PUBLIC FI	NA A	.PF.BUDGE	Availability	(Primary	A.PF.BUD	GE ^T To w	hat exte	1	response					89.2	A.PI
FRA		France	Availability	PUBLIC FI	NA A	.PF.BUDGE	Availability	(Primary	A.PF.BUD	GET TO W	hat exte	1	response					88.75	A.P
2 DNK		Denmark	Availability	PUBLIC FI	NA A	.PF.BUDGE	Availability	(Primary	A.PF.BUD	GE To w	hat exte	1	response					87.5	A.P
6 THA		Thailand	Availability	PUBLIC FI	NA A	.PF.BUDGE	Availability	(Primary	A.PF.BUD	GET TO W	hat exte	1	response					84.19	A.P
8 GTM		Guatemala	Availability	PUBLIC FI	NA A	.PF.BUDGE	Availability	(Primary	A.PF.BUD	GE To w	hat exte	1	response					83.15	A.P
2 DEU		Germany	Availability	PUBLIC FI	NA A	.PF.BUDGE	Availability	(Primary	A.PF.BUD	GE ^T To w	hat exte	1	response					82.7	A.P
7 LVA		Latvia	Availability	PUBLIC FI	NA A	.PF.BUDGE	Availability	(Primary	A.PF.BUD	GET TO W	hat exte	1	response					81.48	A.P
9 RUS		Russian Fede	Availability	PUBLIC FI	NA A	.PF.BUDGE	Availability	(Primary	A.PF.BUD	GE To w	hat exte	1	response					81.43	A.P
0 USA		United State	Availability	PUBLIC FI	NA A	.PF.BUDGE	Availability	(Primary	A.PF.BUD	GET TO W	hat exte	1	response					80.847	A.P
1 SWE		Sweden	Availability	PUBLIC FI	NA A	.PF.BUDGE	Availability	(Primary	A.PF.BUD	GE To w	hat exte	1	response					80.82	A.P
9 HKG		China, Hong	Availability	PUBLIC FI	NA A	.PF.BUDGE	Availability	(Primary	A.PF.BUD	GE ^T O W	hat exte	1	response					80.04	A.P
38 PHL		Philippines	Availability	PUBLIC FI	NA A	.PF.BUDGE	Availability	(Primary	A.PF.BUD	GET TO W	hat exte	1	response					79.74	A.P
19 TWN		Taiwan	Availability	PUBLIC FI	NA A	.PF.BUDGE	Availability	(Primary	A.PF.BUD	GE To w	hat exte	1	response					79.4	A.P
19 ARG		Argentina	Availability	PUBLIC FI	NA A	.PF.BUDGE	Availability	(Primary	A.PF.BUD	GET TO W	hat exte	1	response					79.263	A.P
2 ARM		Armenia	Availability	PUBLIC FI	NA A	.PF.BUDGE	Availability	(Primary	A.PF.BUD	GET TO W	hat exte	1	response					78.68	A.P
94 MDA		Republic of I	Availability	PUBLIC FI	NA A	.PF.BUDGE	Availability	(Primary	A.PF.BUD	GE ^T O W	hat exte	1	response					78.41	A.P
91 URY		Uruguay	Availability	PUBLIC FI	NA A	.PF.BUDGE	Availability	(Primary	A.PF.BUD	GET TO W	hat exte	1	response					78.38	A.P
71 DOM		Dominican R	Availability	PUBLIC FI	NA A	.PF.BUDGE	Availability	(Primary	A.PF.BUD	GE To w	hat exte	1	response					78.15	A.P
68 CHL		Chile	Availability	PUBLIC FI	NA A	.PF.BUDGE	Availability	(Primary	A.PF.BUD	GE To w	hat exte	1	response					78.15	
48 ITA		Italy	Availability	PUBLIC FI	NA A	PF.BUDGE	Availability	(Primary	A.PF.BUD	GET TO W	hat exte	1	response					77.65	A.P

Task 3: Governance Indicator World Rank

Step 1

First, you need to access the final scores for the governance indicator. To do so, filter the column "indicator_name" and select the "Governance (PF): Public finance data" option.

Α	В	с	D	F	E	G	н	1		К	1	м	N	0	P	
iso3				-	indicator 🗐			question x	hiorarchy					-	- r	▼ paren
XKX	Kosovo			-	If Governance			To what exte		1 response	response	response	normaniza	weight	Lange Contraction of	97 G.PF.F
ХКХ	Kosovo				If Governance			To what exte		1 iustification	The primary	obligation to	nublish data	on public		
хкх	Kosovo				If Governance		G.PF.PUB-F			2 response	, the printing	o on gation to	paonsnaato	- public		0.6 G.PF.
ХКХ	Kosovo				If Governance			Are there la		4 response	They exist a	2	1		-	G.PF.
ХКХ	Kosovo				If Governance			1,2;Please p		4 supporting			on to publish	data on pu	blic finances	
ХКХ	Kosovo				If Governance			I Do relevant		4 response	There is no r		00000			G.PF.
ХКХ	Kosovo				If Governance		G.PF.PUB-F	l Elements		2 response				1	100 59.	95 G.PF.
хкх	Kosovo				If Governance		G.PF.PUB-F	Provisions fo		3 response					50 37.	45 G.PF.
хкх	Kosovo	Governance	PUBLIC FIN	A G.PF.PUB-	If Governance	Primary	G.PF.PUB-F	I Summary re		4 response	Partially	1	0.5		8.5 4.	25 G.PF
хкх	Kosovo	Governance	PUBLIC FIN	A G.PF.PUB-	If Governance	Primary	G.PF.PUB-F	1;Please ind		4 supporting	The appendi	xes to the an	nual budget	law provid	e the summa	v cG.PF
хкх	Kosovo	Governance	PUBLIC FIN	A G.PF.PUB-	If Governance	Primary	G.PF.PUB-F	I Expenditure		4 response	No	0	Č		8.3	0 G.PF.
хкх	Kosovo	Governance	PUBLIC FIN	A G.PF.PUB-	If Governance	Primary	G.PF.PUB-F	The rules/gu		4 response	Yes	2	1		8.3 8	3.3 G.PF
хкх	Kosovo	Governance	PUBLIC FIN	A G.PF.PUB-	If Governance	Primary	G.PF.PUB-F	2;Please ind		4 supporting	The law on					G.PF
хкх	Kosovo	Governance	PUBLIC FIN	A G.PF.PUB-	If Governance	Primary	G.PF.PUB-F	I The rules/gu		4 response	Yes	2	1		8.3 8	3.3 G.PF
хкх	Kosovo	Governance	PUBLIC FIN	A G.PF.PUB-	If Governance	Primary	G.PF.PUB-F	12;Please ind		4 supporting	The law on					G.PF
хкх	Kosovo	Governance	PUBLIC FIN	A G.PF.PUB-	If Governance	Primary	G.PF.PUB-F	I The rules/gu		4 response	Yes	2	1		8.3 8	3.3 G.PF.
хкх	Kosovo	Governance	PUBLIC FIN	A G.PF.PUB-	If Governance	Primary	G.PF.PUB-FI	12;Please ind		4 supporting	The law on					G.PF.
ХКХ	Kosovo	Governance	PUBLIC FIN	A G.PF.PUB-	If Governance	Primary	G.PF.PUB-F	If The rules/gu		4 response	Yes	2	1		8.3 8	3.3 G.PF
хкх	Kosovo	Governance	PUBLIC FIN	A G.PF.PUB-	If Governance	Primary	G.PF.PUB-F	12;Please ind		4 supporting	The law on					G.PF
ХКХ	Kosovo	Governance	PUBLIC FIN	A G.PF.PUB-	If Governance	Primary	G.PF.PUB-F	Provisions fo		3 response					20	G.PF
ХКХ	Kosovo	Governance	PUBLIC FIN	A G.PF.PUB-	If Governance	Primary	G.PF.PUB-F	The rules/gu		4 response	Yes	2				10 G.PF.
ХКХ	Kosovo	Governance	PUBLIC FIN	A G.PF.PUB-I	If Governance	Primary	G.PF.PUB-F	12;Please ind		4 supporting	The law on p	ublic finance	es manageme	nt and acc	ountability re	qu G.PF

Then filter the column "hierarchy_level" by the level "1".



F1	Ŧ	: ×	$\sqrt{-f_x}$	indicator_na	ame												`
	А	В	С	D	Е	F	G	н	1	J	К	L	м	N	0	Р	¢
1 iso3	*	country 💌	pillar 💌	module	 indicator_ 	 indicator_J 	indicator_	variable_r 🔻	question 💌	hierarchy 🗐	data_type 💌	response 💌	response 🔻	normalize 🔻	weight	💌 score 🔍	paren
2 XKX		Kosovo	Governance	PUBLIC FIN	A G.PF.PUB-	If Governance	Primary	G.PF.PUB-FI	To what exte		1 response					41.97	G.PF.F
3 XKX		Kosovo	Governance	PUBLIC FIN	A G.PF.PUB-	If Governance	Primary	G.PF.PUB-FI	To what exte		1 justification	The primary	obligation to	o publish data	on public	finances comes	G.PF.F
73 BHS		Bahamas	Governance	PUBLIC FIN	A G.PF.PUB-	If Governance	Primary	G.PF.PUB-FI	To what exte		1 response					16.131	G.PF.F
74 BHS		Bahamas	Governance	PUBLIC FIN	A G.PF.PUB-	If Governance	Primary	G.PF.PUB-FI	To what exte		1 justification	The FAA					G.PF.F
75 BHS		Bahamas	Governance	PUBLIC FIN	A G.PF.PUB-	If Governance	Primary	G.PF.PUB-FI	1 1		1 example	[Financial A	dministratio	n and Audit Ad	t, 2010](ht	ttp://laws.baha	G.PF.F
76 BHS		Bahamas	Governance	PUBLIC FIN	A G.PF.PUB-	If Governance	Primary	G.PF.PUB-FI	1 2		1 example	[Public Fina	nce Manager	nent Act, 2021](http://la	ws.bahamas.go	G.PF.F
77 BHS		Bahamas	Governance	PUBLIC FIN	A G.PF.PUB-	If Governance	Primary	G.PF.PUB-FI	1 3		1 example	[Public Deb	t Managemei	nt Act, 2021](h	ttp://laws	.bahamas.gov.b	G.PF.F
152 BLZ		Belize	Governance	PUBLIC FIN	A G.PF.PUB-	If Governance	Primary	G.PF.PUB-FI	To what exte		1 response					21	G.PF.F
153 BLZ		Belize	Governance	PUBLIC FIN	A G.PF.PUB-	If Governance	Primary	G.PF.PUB-FI	To what exte		1 justification	The main					G.PF.F
219 DOM		Dominican R	Governance	PUBLIC FIN	A G.PF.PUB-	If Governance	Primary	G.PF.PUB-FI	To what exte		1 response					49.9	G.PF.F
220 DOM		Dominican R	Governance	PUBLIC FIN	A G.PF.PUB-	If Governance	Primary	G.PF.PUB-FI	To what exte		1 justification	The Genera	1				G.PF.F
221 DOM		Dominican R	Governance	PUBLIC FIN	A G.PF.PUB-	If Governance	Primary	G.PF.PUB-FI	1 1		1 example	[Law No. 42	3-06](https://	/www.digepre	es.gob.do/	ˈtransparencia/\	G.PF.F
222 DOM		Dominican R	Governance	PUBLIC FIN	A G.PF.PUB-	If Governance	Primary	G.PF.PUB-FI	1 2		1 example	[Law No. 10	1-79](https://	/www.digepre	es.gob.do/	transparencia/	G.PF.F
309 GUY		Guyana	Governance	PUBLIC FIN	A G.PF.PUB-	If Governance	Primary	G.PF.PUB-FI	To what exte		1 response					0	G.PF.F
310 GUY		Guyana	Governance	PUBLIC FIN	A G.PF.PUB-	If Governance	Primary	G.PF.PUB-FI	To what exte		1 justification	The various	Acts do not r	equire public	ation of st	ructured data.	G.PF.F
374 HTI		Haiti	Governance	PUBLIC FIN	A G.PF.PUB-	If Governance	Primary	G.PF.PUB-FI	To what exte		1 response					0	G.PF.F
375 HTI		Haiti	Governance	PUBLIC FIN	A G.PF.PUB-	If Governance	Primary	G.PF.PUB-FI	To what exte		1 justification	The Ministr	y of Economy	of Finance (N	1EF) is resp	onsible to publ	i G.PF.F
449 JAM		Jamaica	Governance	PUBLIC FIN	A G.PF.PUB-	If Governance	Primary	G.PF.PUB-FI	To what exte		1 response					28.47	G.PF.F
450 JAM		Jamaica	Governance	PUBLIC FIN	A G.PF.PUB-	If Governance	Primary	G.PF.PUB-FI	To what exte		1 justification	The					G.PF.F
451 JAM		Jamaica	Governance	PUBLIC FIN	A G.PF.PUB-	If Governance	Primary	G.PF.PUB-FI	1 1	:	1 example	[Financial A	dministratio	n and Audit - a	imend](ht	tps://2021-files	G.PF.F
452 JAM		Jamaica	Governance	PUBLIC FIN	A G.PF.PUB-	If Governance	Primary	G.PF.PUB-FI	1 2		1 example	[Financial A	dministratio	n and Audit Ad	t (1959)](ł	nttps://2021-file	G.PF.F
534 LCA		Saint Lucia	Governance	PUBLIC FIN	A G.PF.PUB-	If Governance	Primary	G.PF.PUB-FI	To what exte		1 response					34.1	G.PF.F
>		gdb-2021-p	ublic-finance	-module-	+						: •						Þ

And finally, filter the column "score" by all cells with values (avoiding empty values).

	А		В	С	D	E		F	G	н	1.1	J	К	L	M	N	0	P	
1	iso3	¥	country 💌	pillar 💌	module	 indicat 	or	indicator 🖅	indicator_	variable_r 👻	question 💌	hierarchy 🔊	data_type 👻	response 👻	response	normalize 👻	weight	▼ score	, ⊤ pare
2	ХКХ		Kosovo	Governance	PUBLIC FIN	A G.PF.P	JB-FI	If Governance	Primary	G.PF.PUB-FI	To what ext	e 1	L response					41.	97 G.PF
3	BHS		Bahamas	Governance	PUBLIC FIN	A G.PF.P	JB-FI	If Governance	Primary	G.PF.PUB-FI	To what ext	e 1	L response					16.1	31 G.P
2	BLZ		Belize	Governance	PUBLIC FIN	A G.PF.P	JB-FI	If Governance	Primary	G.PF.PUB-FI	To what ext	e 1	L response						21 G.P
9	DOM		Dominican R	Governance	PUBLIC FIN	A G.PF.P	JB-FI	If Governance	Primary	G.PF.PUB-FI	To what ext	e 1	L response					49	9.9 G.P
9	GUY		Guyana	Governance	PUBLIC FIN	A G.PF.P	JB-FI	If Governance	Primary	G.PF.PUB-FI	To what ext	e 1	L response						0 G.P
4	HTI		Haiti	Governance	PUBLIC FIN	A G.PF.P	JB-FI	If Governance	Primary	G.PF.PUB-FI	To what ext	e 1	L response						0 G.P
9	JAM		Jamaica	Governance	PUBLIC FIN	A G.PF.P	JB-FI	If Governance	Primary	G.PF.PUB-FI	To what ext	e 1	L response					28.	47 G.P
4	LCA		Saint Lucia	Governance	PUBLIC FIN	A G.PF.P	JB-FI	If Governance	Primary	G.PF.PUB-FI	To what ext	e 1	L response					34	I.1 G.P
0	πо		Trinidad and	Governance	PUBLIC FIN	A G.PF.P	JB-FI	If Governance	Primary	G.PF.PUB-FI	To what ext	e 1	L response						0 G.F
6	GEO		Georgia	Governance	PUBLIC FIN	A G.PF.P	JB-FI	If Governance	Primary	G.PF.PUB-FI	To what ext	e 1	L response					58.	71 G.F
6	OMN		Oman	Governance	PUBLIC FIN	A G.PF.P	JB-FI	If Governance	Primary	G.PF.PUB-FI	To what ext	e 1	L response						3 G.F
6	PSE		State of Pale	Governance	PUBLIC FIN	A G.PF.P	JB-FI	If Governance	Primary	G.PF.PUB-FI	To what ext	e 1	L response						0 G.F
6	EGY		Egypt	Governance	PUBLIC FIN	A G.PF.P	JB-FI	If Governance	Primary	G.PF.PUB-FI	To what ext	e 1	L response					64.	79 G.F
)5	JOR		Jordan	Governance	PUBLIC FIN	A G.PF.P	JB-FI	If Governance	Primary	G.PF.PUB-FI	To what ext	e 1	L response					38.29	25 G.P
37	DNK		Denmark	Governance	PUBLIC FIN	A G.PF.P	JB-FI	If Governance	Primary	G.PF.PUB-FI	To what ext	e 1	L response					49.5	55 G.P
80	EST		Estonia	Governance	PUBLIC FIN	A G.PF.P	JB-FI	If Governance	Primary	G.PF.PUB-FI	To what ext	e 1	L response					80.	75 G.P
57	FIN		Finland	Governance	PUBLIC FIN	A G.PF.P	JB-FI	If Governance	Primary	G.PF.PUB-FI	To what ext	e 1	L response					57.9381	25 G.P
56	FRA		France	Governance	PUBLIC FIN	A G.PF.P	JB-FI	If Governance	Primary	G.PF.PUB-FI	To what ext	e 1	L response					1	00 G.P
56	DEU		Germany	Governance	PUBLIC FIN	A G.PF.P	JB-FI	If Governance	Primary	G.PF.PUB-FI	To what ext	e 1	L response					92	2.5 G.P
17	IRL		Ireland	Governance	PUBLIC FIN	A G.PF.P	JB-FI	If Governance	Primary	G.PF.PUB-FI	To what ext	e 1	L response						0 G.P
	ITA		Italy					If Governance		G.PF.PUB-FI	To what ext	e 1	L response						5.6 G.P
23	LVA		Latvia	Governance	PUBLIC FIN	A G.PF.PI	JB-FI	If Governance	Primary	G.PF.PUB-FI	To what ext	e 1	l response						9 G.P

Step 2

Now, to obtain the ordered list of countries, arrange the column "score" from highest to lowest (descending):

Now, you have an ordered list showing each country's governance indicator score from highest to lowest. You can access the extract of the database you created in the sheet Task 3 Governance Rank^[3] in this database.

You can execute the following code lines to achieve Task 3:

As a result, you will have the following data frame:



1	A	В	С	D	E	F	G	н	1	J	к	L	М	N	0	P	
1 iso3		country 💌	pillar 💌	module 🔤	indicator_	indicator 🖵	indicator_ 🔻	variable_r 🔻	question 💌	hierarchy 🗈	data_type 🔻	response 🔻	response -	normalize 💌	weight 🔄	score IT	bare
2 FRA		France	Governance	PUBLIC FIN	A G.PF.PUB-FI	f Governance	Primary	G.PF.PUB-FI	To what exte	1	L response					100	3.PF
3 ARM		Armenia	Governance	PUBLIC FIN	A G.PF.PUB-FI	f Governance	Primary	G.PF.PUB-FI	To what exte	1	L response					100	3.PF
52 KOR		Republic of	Governance	PUBLIC FIN	A G.PF.PUB-FI	f Governance	Primary	G.PF.PUB-FI	To what exte	1	L response					100	3.PF
19 CAN		Canada	Governance	PUBLIC FIN	A G.PF.PUB-FI	f Governance	Primary	G.PF.PUB-FI	To what exte	1	L response					95	G.PF
9 IDN		Indonesia	Governance	PUBLIC FIN	A G.PF.PUB-FI	f Governance	Primary	G.PF.PUB-FI	To what exte	1	L response					95	3.PF
4 DEU		Germany	Governance	PUBLIC FIN	A G.PF.PUB-FI	f Governance	Primary	G.PF.PUB-FI	To what exte	1	L response					92.5	3.PF
9 BGR		Bulgaria	Governance	PUBLIC FIN	A G.PF.PUB-FI	f Governance	Primary	G.PF.PUB-FI	To what exte	1	L response					91.0575	3.PF
4 MLT		Malta	Governance	PUBLIC FIN	A G.PF.PUB-FI	f Governance	Primary	G.PF.PUB-FI	To what exte	1	L response					91.0575	3.PF
0 PAN		Panama	Governance	PUBLIC FIN	A G.PF.PUB-FI	f Governance	Primary	G.PF.PUB-FI	To what exte	1	L response					87.875	3.PF
6 BRA		Brazil	Governance	PUBLIC FIN	A G.PF.PUB-FI	f Governance	Primary	G.PF.PUB-FI	To what exte	1	L response					87.55	3.PF
6 MEX		Mexico	Governance	PUBLIC FIN	A G.PF.PUB-FI	f Governance	Primary	G.PF.PUB-FI	To what exte	1	L response					87.115	3.PF
16 KAZ		Kazakhstan	Governance	PUBLIC FIN	A G.PF.PUB-FI	f Governance	Primary	G.PF.PUB-FI	To what exte	1	l response					85.5	3.PF
16 ZAF		South Africa	Governance	PUBLIC FIN	A G.PF.PUB-FI	f Governance	Primary	G.PF.PUB-FI	To what exte	1	L response					85.5	3.PF
05 LBR		Liberia	Governance	PUBLIC FIN	A G.PF.PUB-FI	f Governance	Primary	G.PF.PUB-FI	To what exte	1	L response					85.5	3.PF
87 CZE		Czechia	Governance	PUBLIC FIN	A G.PF.PUB-FI	f Governance	Primary	G.PF.PUB-FI	To what exte	1	l response					85.5	3.PF
80 HRV		Croatia	Governance	PUBLIC FIN	A G.PF.PUB-FI	f Governance	Primary	G.PF.PUB-FI	To what exte	1	L response					85	3.PF
67 USA		United State	Governance	PUBLIC FIN	A G.PF.PUB-FI	f Governance	Primary	G.PF.PUB-FI	To what exte	1	L response					85	3.PF
56 GHA		Ghana	Governance	PUBLIC FIN	A G.PF.PUB-FI	f Governance	Primary	G.PF.PUB-FI	To what exte	1	L response					82.365	3.PF
56 EST		Estonia	Governance	PUBLIC FIN	A G.PF.PUB-FI	f Governance	Primary	G.PF.PUB-FI	To what exte	1	L response					80.75	3.PF
47 PER		Peru	Governance	PUBLIC FIN	A G.PF.PUB-FI	f Governance	Primary	G.PF.PUB-FI	To what exte	1	L response					79.2	3.PF
25 UKR		Ukraine	Governance	PUBLIC FIN	A G.PF.PUB-FI	f Governance	Primary	G.PF.PUB-FI	To what exte	1	L response					78.35	
23 RWA		Rwanda	Governance	PUBLIC FIN	A G.PF.PUB-FI	Governance	Primary	G.PF.PUB-FI	To what exte	1	l response					77.615	S.PF

How can you interpret this information?

The PF Module World Rank gave you the big picture. Having a separate ranking for each indicator will allow you to:

- → Differentiate the two components of the PF Module score: availability and governance.
- → Distinguish which countries have better practices for publishing information and which for devising legal frameworks.
- → It allows you to compare both scores for a specific country and see which indicator has a broader window for improvement and which policies would benefit your country more. If the availability score is lower, the country must improve publishing practices and open data tools. On the other side, if the governance indicator is lower, the country can benefit from enhanced guidelines and norms related to the publication of public finance data.

How can you access the full questionnaire of a country?

It is time for you to go into the granular details of the country evaluation and access the full answers for a specific country. To do so, review each indicator questionnaire separately. This time, we will use France's country questionnaire (highest overall PF module score) as an example of the steps to replicate for any other country.

Task 4: Accessing the full Availability Questionnaire of a Country

Step 1

You first need to apply some filters to your database. This time, filter the column "country" by "France", the column "pillar" by "availability", and finally the column "hierarchy_level" by "4".

Step 2

To review each question, you will be using the columns "question", "data type", and "response". The column "question" will indicate which question was evaluated by the researcher as a full question statement. Next, the "data type" column will indicate whether the answer was a "response" type (indicating the final evaluation of the researcher) or if it was a



"supporting" answer (additional information provided by the researcher to evaluate the country). Finally, the column "response" will show the researcher's answer.

For example, you find that the question "Is this data available online in any form?" for France has both a "response" and "supporting" data type. The "response" answer was "Data is available from the government, or because of government actions". The "supporting" answer provided by the researcher is a set of links where you can get public finance data.

As a result, you will have the next data frame:

M1419		: ×	< .	<i>f_x</i> 2																
A		В		C	D	_	E	F	G	н		J	K	L	M	N	0		P	
1 iso3	Ŧ	country	J pilla		-			-	indicator_ •	variable_r 💌	question 💌	hierarchy 🗐	r data_type ▼	response 💌	response_ •	normalize 💌	weight	▼ scor	e 🔹	pare
400 FRA		France						Availability		A.PF.BUDGE			1 response	Data is availa	1	2 1				A.PF
401 FRA		France						Availability		A.PF.BUDGE			1 supporting							A.PF
404 FRA		France						Availability		A.PF.BUDGE			1 response	Yes	1	2 1	2	.84	2.84	A.PF
105 FRA		France						Availability		A.PF.BUDGE			1 supporting	- Ministry of						A.PF
406 FRA		France						Availability		A.PF.BUDGE			1 response	Yes	2	2 1	2	.84	2.84	A.PF
407 FRA		France						Availability		A.PF.BUDGE			1 supporting	- Annual						A.PF
408 FRA		France						Availability		A.PF.BUDGE			1 response	Yes	2	2 1		2.9	2.9	A.PF
109 FRA		France	Avai	lability	PUBLIC FI	NA	A.PF.BUDGE	Availability	(Primary	A.PF.BUDGE			1 supporting	- Budget						A.PF
10 FRA		France						Availability		A.PF.BUDGE			1 response	Yes	1	2 1		2.9		A.PF
11 FRA		France	Avai	lability	PUBLIC FI	NA	A.PF.BUDGE	Availability	(Primary	A.PF.BUDGE	1,2;If budget	t 4	1 supporting	Budget Gouv	Portal: http	s://www.bud	get.gouv.f	r/budge	et-etat	A.PF
412 FRA		France						Availability		A.PF.BUDGE			1 response	Yes	1	2 1		.84		A.PF
13 FRA		France	Avai	lability	PUBLIC FI	NA	A.PF.BUDGE	Availability	(Primary	A.PF.BUDGE	1,2;If budget	4	1 supporting	https://www	v.economie.	gouv.fr/cedef	/chiffres-o	les-buo	lget-eta	t A.PF
414 FRA		France	Avai	lability	PUBLIC FI	NA	A.PF.BUDGE	Availability	(Primary	A.PF.BUDGE	There is stru	4	1 response	Yes	1	2 1	2	.84	2.84	A.PF
415 FRA		France	Avai	lability	PUBLIC FI	NA	A.PF.BUDGE	Availability	(Primary	A.PF.BUDGE	1,2;If budget	4	1 supporting	https://data						A.PF
16 FRA		France	Avai	lability	PUBLIC FI	NA	A.PF.BUDGE	Availability	(Primary	A.PF.BUDGE	There is stru	4	1 response	Yes	2	2 1	2	.84	2.84	A.PF
17 FRA		France	Avai	lability	PUBLIC FI	NA	A.PF.BUDGE	Availability	(Primary	A.PF.BUDGE	1,2;If budget	4	1 supporting	https://www	v.budget.gou	uv.fr/budget-	etat			A.PF
19 FRA		France	Avai	lability	PUBLIC FI	NA	A.PF.BUDGE	Availability	(Primary	A.PF.BUDGE	Budget entri	4	1 response	Yes	1	2 1		2.5	2.5	A.PF
420 FRA		France	Avai	lability	PUBLIC FI	NA	A.PF.BUDGE	Availability	(Primary	A.PF.BUDGE	1,2;If budget	4	1 supporting	the informat	tion in admir	histrative class	sification is	here h	ttps://w	A.PF
421 FRA		France	Avai	lability	PUBLIC FI	NA	A.PF.BUDGE	Availability	(Primary	A.PF.BUDGE	Budget entri	i 4	1 response	No	(0 0		2.5	C	A.PF
422 FRA		France	Avai	lability	PUBLIC FI	NA	A.PF.BUDGE	Availability	(Primary	A.PF.BUDGE	Budget entri	4	1 response	Yes	2	2 1	. :	2.5	2.5	A.PF
423 FRA		France	Avai	lability	PUBLIC FI	NA	A.PF.BUDGE	Availability	(Primary	A.PF.BUDGE	1,2;If budget	4	1 supporting	The informa	tion is provid	ded here http	s://www.b	udget.g		
424 FRA		France	Avai	lability	PUBLIC FI	NA	A.PF.BUDGE	Availability	(Primary	A.PF.BUDGE	Budget entri	4	1 response	Partially	1	1 0.5		2.5	1.25	A.PF
		gdb-2021-	public-f	inance-	module-		+					1	•							Þ

Task 5: Accessing the full Governance Questionnaire of a Country

Step 1

As we reviewed previously for the availability questionnaire, you first need to apply filters to your database. This time, you will filter the column "country" by "France", the column "pillar" by "governance", and finally the column "hierarchy level" by "4".

Step 2

Finally, you can repeat the same review process you did for the availability questionnaire. For example, for the question "Are there laws, policies, or regulations requiring collection or publication of this information in any form?" the researcher provided a "response" data type answer which states "They exist and are operational", and the supporting data type answer includes the law number, article(s) supporting this information.



You can execute the following code lines to achieve Task 5:

- & (pfmodule_dataframe["pillar"] == "Governance") \
 & (pfmodule_dataframe["country"] == "France")]
- As a result, you will have the following data frame:

A	В	С	D	E	F	G	н	1	J	K	L	м	N	0	р	
1 iso3	▼ country	🛪 pillar 🗳	module	indicator	indicator	indicator 🔻	variable 💌	question 🔻	hierarchy 🗈	data type -	response 💌	response 🔻	normalize -	weight	▼ score	▼ pare
64 FRA	France	Governance	PUBLIC FINA	A G.PF.PUB-F	If Governance	Primary	G.PF.PUB-FI	Are there la	4	1 response	They exist ar	2	1			G.PF
65 FRA	France	Governance	PUBLIC FINA	A G.PF.PUB-F	If Governance	Primary	G.PF.PUB-FI	1,2;Please p	4	supporting	The article					G.PI
66 FRA	France	Governance	PUBLIC FINA	A G.PF.PUB-F	If Governance	Primary	G.PF.PUB-FI	l Do relevant	4	1 response	Requiremen	3	1			G.P
67 FRA	France	Governance	e PUBLIC FIN	A G.PF.PUB-F	If Governance	Primary	G.PF.PUB-FI	1,2,3;Please	4	supporting	The article					G.P
70 FRA	France	Governance	PUBLIC FINA	A G.PF.PUB-F	If Governance	Primary	G.PF.PUB-FI	f Summary re	4	1 response	Yes	2	! 1	. 8	.5	8.5 G.P
71 FRA	France	Governance	PUBLIC FINA	A G.PF.PUB-F	If Governance	Primary	G.PF.PUB-FI	12;Please ind	4	supporting	The article					G.P
72 FRA	France	Governance	PUBLIC FINA	A G.PF.PUB-F	If Governance	Primary	G.PF.PUB-FI	f Expenditure	۷ ک	1 response	Yes	2	! 1	8	.3	8.3 G.P
73 FRA	France	Governance	PUBLIC FINA	A G.PF.PUB-F	If Governance	Primary	G.PF.PUB-FI	12;Please ind	4	supporting	The article					G.P
74 FRA	France	Governance	PUBLIC FINA	A G.PF.PUB-F	If Governance	e Primary	G.PF.PUB-FI	The rules/gu	4	1 response	Yes	2	! 1	8	.3	8.3 G.P
75 FRA	France	Governance	PUBLIC FINA	A G.PF.PUB-F	If Governance	Primary	G.PF.PUB-FI	12;Please ind	4	1 supporting	The article					G.P
76 FRA	France	Governance	PUBLIC FINA	A G.PF.PUB-F	If Governance	Primary	G.PF.PUB-FI	The rules/gu	4	1 response	Yes	2	! 1	8	.3	8.3 G.P
77 FRA	France	Governance	PUBLIC FINA	A G.PF.PUB-F	If Governance	e Primary	G.PF.PUB-FI	2;Please ind	4	1 supporting	The article					G.P
78 FRA	France	Governance	PUBLIC FINA	A G.PF.PUB-F	If Governance	Primary	G.PF.PUB-FI	The rules/gu	4	1 response	Yes	2	! 1	. 8	.3	8.3 G.P
79 FRA	France	Governance	e PUBLIC FINA	A G.PF.PUB-F	If Governance	e Primary	G.PF.PUB-FI	12;Please ind	4	1 supporting	The article					G.P
80 FRA	France	Governance	PUBLIC FINA	A G.PF.PUB-F	If Governance	Primary	G.PF.PUB-FI	The rules/gu	4	1 response	Yes	2	1	. 8	.3	8.3 G.P
81 FRA	France	Governance	e PUBLIC FINA	A G.PF.PUB-F	If Governance	Primary	G.PF.PUB-FI	12;Please ind	4	1 supporting	The article					G.P
83 FRA	France	Governance	e PUBLIC FINA	A G.PF.PUB-F	If Governance	e Primary	G.PF.PUB-FI	The rules/gu	4	1 response	Yes	2	! 1		10	10 G.P
84 FRA	France	Governance	PUBLIC FINA	A G.PF.PUB-F	If Governance	Primary	G.PF.PUB-FI	12;Please ind	4	supporting	The article					G.P
85 FRA	France	Governance	e PUBLIC FINA	A G.PF.PUB-F	If Governance	e Primary	G.PF.PUB-FI	The framew	4	1 response	Yes	2	1		10	10 G.P
86 FRA	France	Governance	e PUBLIC FINA	A G.PF.PUB-F	If Governance	e Primary	G.PF.PUB-FI	12;Please bri	4	1 supporting	ETALAB: the					G.P
88 FRA	France	Governance	e PUBLIC FINA	A G.PF.PUB-F	If Governance	e Primary	G.PF.PUB-FI	The rules/gu	4	1 response	Yes	2	! 1		15	15 G.P
89 FRA	France	Governance	PUBLIC FINA	A G.PF.PUB-F	If Governance	e Primary	G.PF.PUB-FI	2;Please ind	4	1 supporting	The article					G.P

How can you interpret this information?

- → Accessing this granular level allows you to know WHAT the score was, what the evaluated elements are, and WHERE the evaluated laws or databases/information are.
- → It helps you to know which elements a country can improve to get higher scores in both indicators, improving its overall PF Module score.
- → It also helps you compare and look for inspiration and comparative perspective. You can access the questionnaire of any country, review their score, and access their public databases and laws.

How can you access the answers of all countries on a specific question?

If you want to compare the responses of all countries to a particular question, you need to use the columns "pillar" and "variable." We will use the question "Data is disaggregated by crosscutting programs, or issues such as SDGs, climate action, gender budgeting, etc.," to exemplify this process. This step will let you know, for example, **which countries publish data by crosscutting prioritization**, at least partially, and get access to their responses. The next table has all available variables and their corresponding question to facilitate retrieving specific information for each questionnaire:



Availability Questionnaire

	Availability Questionnane	
Торіс	Variable Name	Question
Existence and comprehensiveness of online data	A.PF.BUDGETSPEND.a.ONLINE	Is this data available online in any form?
	A.PF.BUDGETSPEND.c.EXTENT	How comprehensive is the data assessed?
Key budget documents	A.PF.BUDGETSPEND.e.e1.PROPOSED	There is structured data available on the executive budget proposal in gross terms, including spending on annual and multi- annual investment projects.
	A.PF.BUDGETSPEND.e.e1.APPROVED	There is structured data available on the approved or enacted budget in gross terms, including spending on annual and multi-annual investment projects.
Publication of disaggregated data	A.PF.BUDGETSPEND.e.e1.AMENDED	There is structured data available on amended budgets (when applicable) or amendments to the enacted budget.
	A.PF.BUDGETSPEND.e.e1.SGA	There is structured data about government budget execution or spending, in gross terms and on an accrual basis, including spending in annual and multi-annual investment projects.
	A.PF.BUDGETSPEND.e.e1.EXTRASPENDING	There is structured data about the government's extrabudgetary funds spending, in gross terms and on an accrual basis.

	IATIVE res SPARENCY	
	A.PF.BUDGETSPEND.e.e1.SOCIALSECURITY	There is structured data about the government's social security spending, in gross terms and on an accrual basis.
	A.PF.BUDGETSPEND.e.e1.PUBCORP	There is structured data about public corporations' spending, in gross terms and on an accrual basis.
	A.PF.BUDGETSPEND.e.e2.TRANSACTION	Information about individual financial transactions or expenditures is available at the most disaggregated level of the economic classification level.
	A.PF.BUDGETSPEND.e.e2.CROSSCUTTING	Data is disaggregated by cross-cutting programs, or issues such as SDGs, climate action, gender budgeting, etc.,
Publication of data under international classifications	A.PF.BUDGETSPEND.e.e2.ADMIN	Budget entries have administrative classifications to an internationally agreed standard.
	A.PF.BUDGETSPEND.e.e2.ECON	Budget entries have economic classifications to an internationally agreed standard.
	A.PF.BUDGETSPEND.e.e2.FUNC	Budget entries have functional classifications to an internationally agreed standard.
	A.PF.BUDGETSPEND.e.e2.PROGRAM	Budget entries have program classifications according to an internationally agreed standard.
Data and performance identifiers.	A.PF.BUDGETSPEND.e.e2.COMMONID	The data contains common identifiers to connect budget and budget performance data.

	A.PF.BUDGETSPEND.e.e2.PROJECT	The data contains identifiers that can be used to connect budget data with data on major projects (e.g., infrastructure construction) and procurement processes.
How is data published?	A.PF.BUDGETSPEND.e.e3.FREE	Dataset is available free of charge.
	A.PF.BUDGETSPEND.e.e3.LICENSE	Data is openly licensed.
	A.PF.BUDGETSPEND.e.e3.LANG	Data is available in all the country's official or national languages. If the country has no official or national languages, data is available in the major languages of the country.
	A.PF.BUDGETSPEND.e.e3.TOOLS	There are accessible and open official tools available to help users explore data.
	A.PF.BUDGETSPEND.e.e3.TIMELY	Data is timely and updated.
	A.PF.BUDGETSPEND.e.e3.HISTORICAL	Historical data is available that allows users to track change over time.
	A.PF.BUDGETSPEND.e.e3.MACHINE_READABL E	Data is provided in machine-readable format(s)
	A.PF.BUDGETSPEND.e.e3.BULK	The machine-readable dataset is available as a whole
	A.PF.BUDGETSPEND.e.eb.MISSINGDATA	This information is missing required data.
	A.PF.BUDGETSPEND.e.eb.COVIDAFFECTED	The availability of this data has been affected by government response to COVID-19.

Governance Questionnaire

Торіс	Variable Name	Question
Existence of frameworks requiring the collection and	G.PF.PUB-FINANCE.a.EXIST	Are there laws, policies, or regulations requiring collection or publication of this information in any form?
publication of open data.	G.PF.PUB- FINANCE.a.DATARULES	Do relevant laws, policies, regulations, or guidance discuss the publication of open data?
Legal framework for the publication of	G.PF.PUB- FINANCE.e.e1.SUMMARY	Summary reports must be provided as structured data.
budget documents.	G.PF.PUB- FINANCE.e.e1.EXECBUDGET	The rules/guidance require executive budget proposal information to be provided as structured data.
	G.PF.PUB- FINANCE.e.e1.ENACTED	The rules/guidance require the approved or enacted budget to be provided as structured data.
	G.PF.PUB- FINANCE.e.e1.INYEAR	The rules/guidance require in-year reports as structured data.
	G.PF.PUB-FINANCE.e.e1.YER	The rules/guidance require year-end reports as structured data.
	G.PF.PUB- FINANCE.e.e1.TRANSACTIONS	Expenditure information at the most disaggregated level of the economic classification must be provided as structured data.
Legal framework for validation and auditing processes	G.PF.PUB- FINANCE.e.e2.AGENCY	The rules/guidance empower an agency or official to ensure the accurate and timely collection and publication of required data.
processes	G.PF.PUB- FINANCE.e.e2.VERIFICATION	The framework requires a verification process.
Requirements for the publication of data.	G.PF.PUB- FINANCE.e.e3.TIMELY	The rules/guidance require that data is regularly updated.
	G.PF.PUB- FINANCE.e.e3.STRUCTURED	The rules/guidance support the collection of structured data.
	G.PF.PUB-FINANCE.c.EXTENT	How comprehensive is the coverage of laws, regulations, policies, or guidance assessed for this question?

Task 6: Comparing countries



Step 1

Apply the filter "availability" to the "pillar" column; next, filter the column "hierarchy_level" by "4", to continue, filter the column "data type" by "response". Finally, filter the column "variable" by "A.PF.BUDGETSPEND.e.e2.CROSSCUTTING"

Step 2:

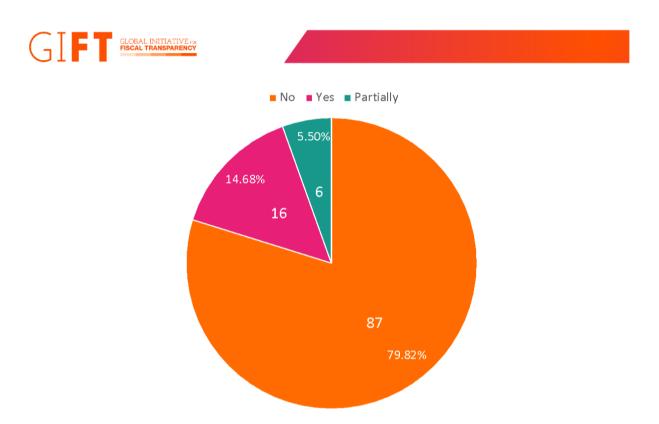
In the column "response," you can look at the answers of all the researchers for each country. If you want more details about the evaluation, you can filter the column "data type" by "supporting".

You can execute the following code lines to achieve Task 6:

As a result, you will have the following data frame:

					-	-											
	A	B	C I	D	E	F	G	H		J	K	L	М	N	0	Р	_
1 iso		 country 	al based				indicator						response_*	normalize 💌	-	score	 pare
52 XK		Kosovo	Availability			,		A.PF.BUDGE	0		response	No	0	0	2.		0 A.PF
30 BH		Bahamas		PUBLIC FINA				A.PF.BUDGE			response	No	0	-			0 A.PF
99 BL2		Belize		PUBLIC FINA				A.PF.BUDGE			response	No	0		2.		0 A.PF
82 DO			R Availability					A.PF.BUDGE	0		response	No	0	-	2.5		0 A.PF
53 GU		Guyana		PUBLIC FINA				A.PF.BUDGE			response	No	0	-			0 A.PF
24 HT		Haiti		PUBLIC FINA				A.PF.BUDGE			response	No	0	-	2.5		0 A.PF
IAL 60		Jamaica		PUBLIC FINA				A.PF.BUDGE			response	No	0				0 A.PF
B2 LC/		Saint Lucia	Availability					A.PF.BUDGE			response	No	0	-	2.		0 A.PF
52 TT		Trinidad and		PUBLIC FINA				A.PF.BUDGE			response	No	0	-	2.		0 A.PI
IS GE	0	Georgia		PUBLIC FINA				A.PF.BUDGE			response	Yes	2	! 1	2.	i	2.5 A.PI
20 ON	/N	Oman	Availability	PUBLIC FINA	A.PF.BUDGE	Availability	(Primary	A.PF.BUDGE	Data is disag	4	response	No	0	0	2.	j	0 A.PF
4 PSI	E	State of Pale	Availability	PUBLIC FINA	A.PF.BUDGE	Availability	(Primary	A.PF.BUDGE	Data is disag	4	I response	No	0	0 0	2.5	5	0 A.P
1 EG	Y	Egypt	Availability	PUBLIC FINA	A.PF.BUDGE	Availability	(Primary	A.PF.BUDGE	Data is disag	4	response	No	0	0	2.	5	0 A.P
65 JOI	R	Jordan	Availability	PUBLIC FINA	A.PF.BUDGE	Availability	(Primary	A.PF.BUDGE	Data is disag	4	response	No	0	0	2.	5	0 A.P
52 DN	IK	Denmark	Availability	PUBLIC FINA	A.PF.BUDGE	Availability	(Primary	A.PF.BUDGE	Data is disag	4	response	No	0	0	2.	5	0 A.P
41 EST	г	Estonia	Availability	PUBLIC FINA	A.PF.BUDGE	Availability	(Primary	A.PF.BUDGE	Data is disag	4	response	No	0	0	2.5	i	0 A.PI
29 FIN	N I	Finland	Availability	PUBLIC FINA	A.PF.BUDGE	Availability	(Primary	A.PF.BUDGE	Data is disag	4	response	No	0	0	2.	5	0 A.PI
28 FR/	Α	France	Availability	PUBLIC FINA	A.PF.BUDGE	Availability	(Primary	A.PF.BUDGE	Data is disag	4	response	No	0	0 0	2.5	5	0 A.PI
19 DE	U	Germany	Availability	PUBLIC FINA	A.PF.BUDGE	Availability	(Primary	A.PF.BUDGE	Data is disag	4	response	No	0	0 0	2.	i	0 A.PI
99 IRL		Ireland	Availability	PUBLIC FINA	A.PF.BUDGE	Availability	(Primary	A.PF.BUDGE	Data is disag	4	response	No	0	0 0	2.	i	0 A.PI
95 ITA	ι	Italy	Availability	PUBLIC FINA	A.PF.BUDGE	Availability	(Primary	A.PF.BUDGE	Data is disag	4	response	No	0	0	2.5	i	0 A.PF
80 LV	A	Latvia	Availability	PUBLIC FINA	A.PF.BUDGE	Availability	(Primary	A.PF.BUDGET	Data is disag	4	response	No	0	0 0	2.5	j	0 A.P

As you get the information on which countries do publish this information, at least to a partial extent, you can build visualizations to understand this data better and make a list of countries publishing, at least partially, this information. The graphic below shows the countries' responses to the question, "Data is disaggregated by cross-cutting programs, or issues such as SDGs, climate action, gender budgeting, etc.?"



We can see that 22 countries publish under some degree disaggregated data by cross-cutting programs. Also, we can make these lists.

Countries that publish information:

Argentina, Bangladesh, Benin, Gambia, Georgia, Kenya, Malaysia, Mexico, Morocco, Nepal, Russian Federation, South Africa, Spain, Togo, Uganda, and Uruguay.

Countries that publish partial information:

Botswana, China-Hong Kong Special Administrative Region, Paraguay, Taiwan, United States of America, and Viet Nam.

Finally, you can look at the practices of each country. For example, you can look at the case of Argentina, which publishes disaggregated open data by gender:

Open data website of Argentina and search by "gender". The information is available at: <u>https://www.presupuestoabierto.gob.ar/sici/datos-abiertos#</u>

Argentina's gender disaggregation database [extract]. Available here: https://www.presupuestoabierto.gob.ar/sici/datos-
<u>abiertos#</u>
Argentina's gender disaggregation database [extract]. Available here: https://www.presupuestoabierto.gob.ar/sici/datos-
<u>abiertos#</u>

How can you interpret this information?

→ It allows you to compare countries on specific questions, identifying the countries with the advanced practices regarding the publication of Public Finance data and legal frameworks.

→ It helps you see the window of opportunities worldwide through frequency analysis of responses.

Final Remarks

This guide showed you how to retrieve scores and arrange countries according to their PF module score, its availability indicator, and governance indicator results. Now, you can access the granular details of the GDB-PF module questionnaire, compare countries' results and practices, and access great examples of advanced practices in both public finance data publication and legal frameworks. Remember that the article <u>"Advocating for accurate, timely, and trustworthy fiscal information"</u> is a helpful guide through global trends to quick-start your research, and to identify further paths of action to guarantee that public finance data works for the public good.

Now it's your turn! Access the public finance database, build your analysis, and share it with us through social media.

Are you a member of the government's public finance space or a specialized civil society organization working on this topic? Would you like to see your country increase in this score? Contact us!

Twitter: @fiscaltrans Instagram: @fiscaltransparency Facebook: @fiscaltransparency

www.fiscaltransparency.net

^[1] The spreadsheet shows partial information from the database for easy reference. We added the column "world rank" as a guide for readers, the world rank was created manually based on Excel ordering options.

^[2] The spreadsheet shows partial information from the database for convenience. We added the column "world rank" as a guide for readers, the world rank was created manually based on Excel ordering options.

^[3] The spreadsheet shows partial information from the database for convenience. We added the column "world rank" as a guide for readers, the world rank was created manually based on Excel ordering options.