WEBINAR

Beyond Europe: global perspectives on open data excellence



20 September 2024

14:00 - 15:00 CEST

Rules of the game



The webinar will be recorded



For questions, please use the ClickMeeting chat.



Please reserve 3 min after the webinar to help us improve by filling in our feedback form





Introduction



Maddalena Moro Data.europa.eu



Silvana Fumega Director, Global Data Barometer



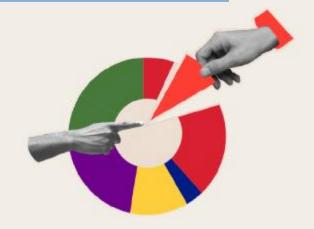
Ana Florina Pirlea Statistician, The World Bank



Agenda

14.05 – 14.10	Opening and introduction – Maddalena Moro
14.10 – 14.30	'Analysing open government data from the Global Data Barometer' – Silvana Fumega
14.30 – 14.50	'Data for equity, value and trust from the World Bank' – Ana Florina Pirlea
14.50 – 15.00	Q&A session and closing remarks

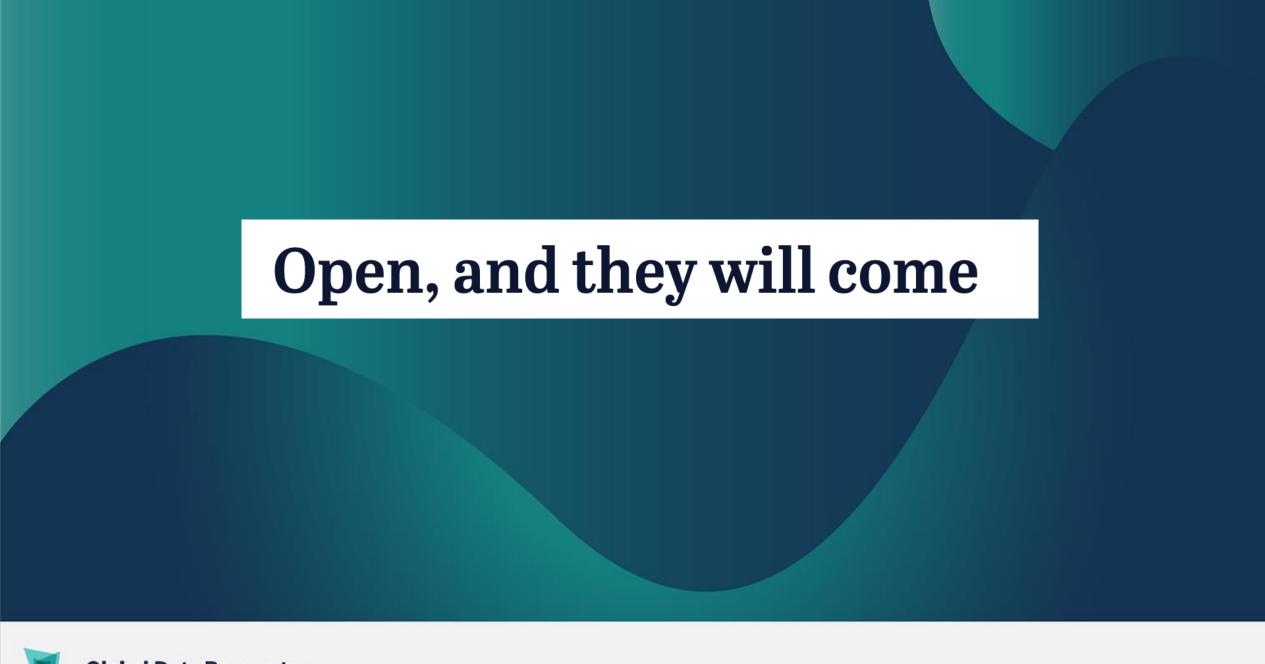




Open Government Data









New benchmark

A critical new benchmark on country-level data governance, data capability, data availability, and data use for the public good

Global Reference

Support

We're creating a new resource to support research, practice, and national actions on data for the public good

> Useful and applicable information

Fill critical knowledge gaps

The Global Data Barometer fills critical knowledge gaps on how data policy and practice are unfolding in different sectors, regions, and countries around the world

Creating knowledge

- ★ 109 countries
- ★ 60277 data points
- ★ +1100 datasets
- ★ +900 frameworks
- ★ +70 open data initiatives

109 countries covered and 60,277 data points

Pillars Modules Global average by pillar Global average by module

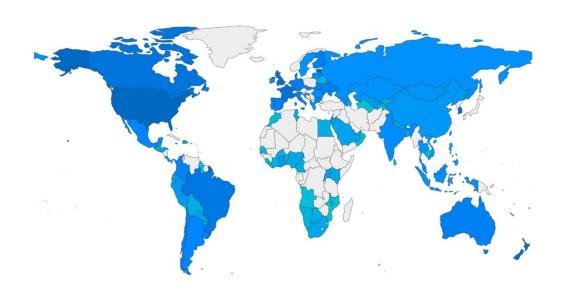


Score



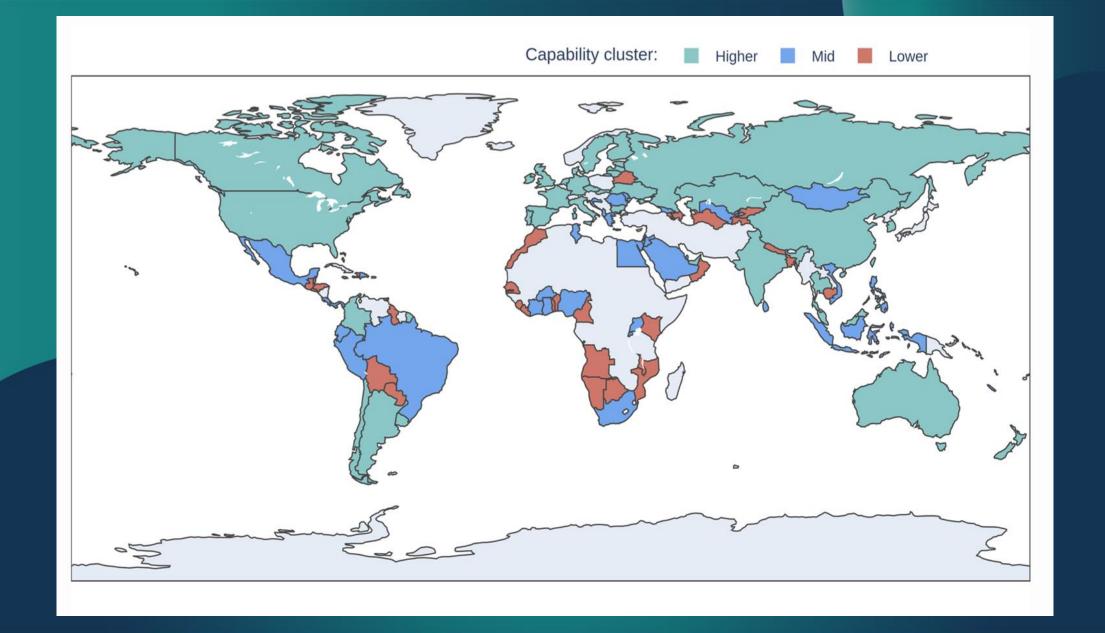
How are countries doing on all modules

Low HIGH



Average modules scores



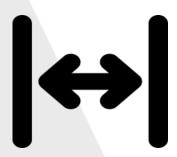


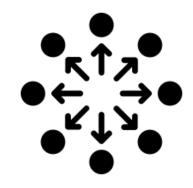


https://gpai.ai/projects/datagovernance/theroleofgovernmentasaproviderofdata forai/#d.en.669199



General Findings











Shaping data for the public good is possible. But, long way to go Open data agendas are alive: but not spreading

Capacity gaps remain a drag on delivering value from data

Well-drafted frameworks deliver better data Partnerships are powering data use







HAEZOOM 해줌

Platforms/ Resource center







Community events





Recommendations:

- Strengthen leadership
- Develop robust data sharing frameworks
- Deepen emphasis on equity and inclusion
- Increase the transparency of government data use

Second edition

(new approaches, new indicators, more cross-cutting issues)

2025

Visit our website for more results and to access our report:

https://globaldatabarometer.org/







Data for equity, value and trust

The World Bank

Development Data Group

Philosophy

- World Development Report 2021:
 - Equity
 - Value
 - Trust



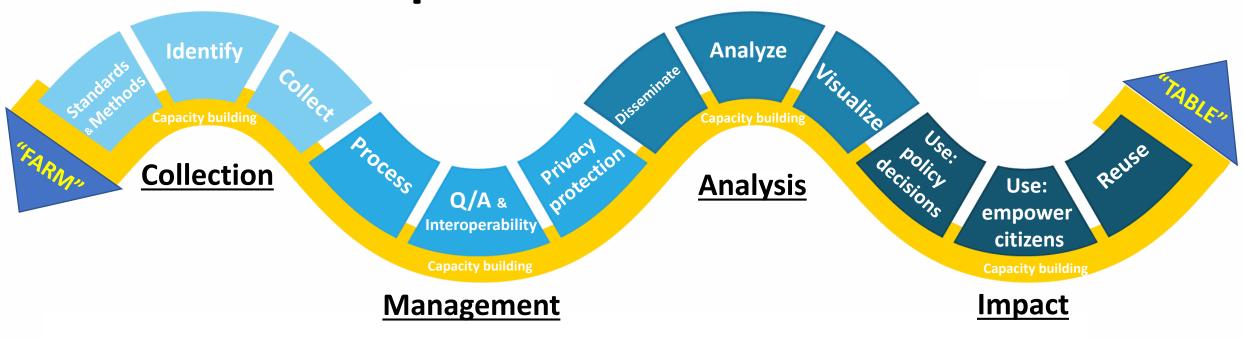
- Equity
- Value
- Trust/Accountability

Products

- World Bank Open Data / WDI
- Microdata Library
- Poverty and Inequality Platform (PIP)
- SDG Atlas
- Statistical Performance Indicators (SPI)
- Open Data Assessment Tool (ODAT)



Development Data Value Chain



Equity

- Data Products free for all
- Accessible to all
- Level playing field for all



Open Data at the World Bank

Since the launch of the Open Data Initiative in 2010, the World Bank has seen:

- data.worldbank.org has emerged as a top online destination of the World Bank
- Elimination of silos; streamlined data requests
- Improvements in data quality



World Bank Open data: 3 ways to find and use it

1. Open Data website

http://data.worldbank.org

2.Data Bank

http://databank.worldbank.org

3.Data Catalog

http://datacatalog.worldbank.org



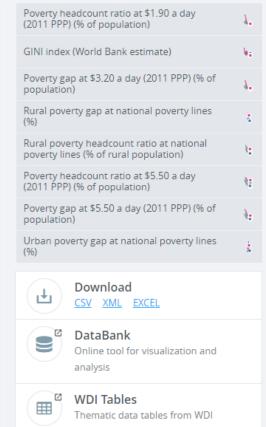
http://data.worldbank.org

Poverty headcount ratio at national poverty lines (% of population)

World Bank, Global Poverty Working Group. Data are compiled from official government sources or are computed by World Bank staff using national (i.e. country-specific) poverty lines.

License : CC BY-4.0 ①



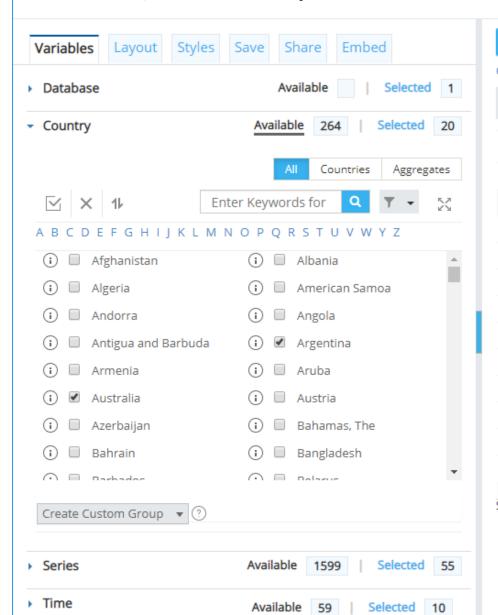




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DataBank | World Development Indicators ①





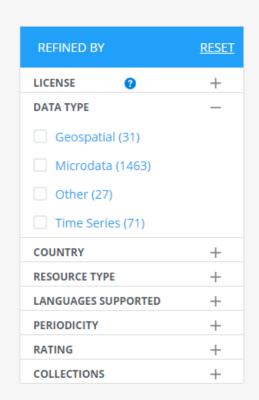
ear Selection Add Country (20) Add Series (55) Add Time (10)			
Argentina ▼ (i)			
	2016	2017	2018
Adolescent fertility rate (births per 1,000 women ages 15-19)	63.0	62.8	.,
Agriculture, forestry, and fishing, value added (% of GDP)	6.4	5.6	
Annual freshwater withdrawals, total (% of internal resources)			
Births attended by skilled health staff (% of total)			
CO2 emissions (metric tons per capita)			
Contraceptive prevalence, any methods (% of women ages 15-49)			
Domestic credit provided by financial sector (% of GDP)	38.1	39.3	
Electric power consumption (kWh per capita)			
Energy use (kg of oil equivalent per capita)			
Exports of goods and services (% of GDP)	12.6	11.2	
External debt stocks, total (DOD, current US\$)			
Fertility rate, total (births per woman)	2.3	2.3	
			+

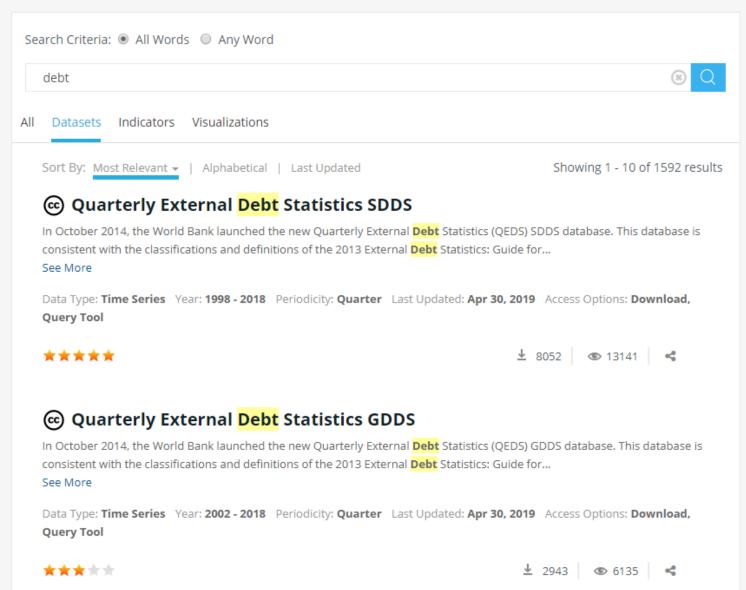
http://databank.worldbank.org



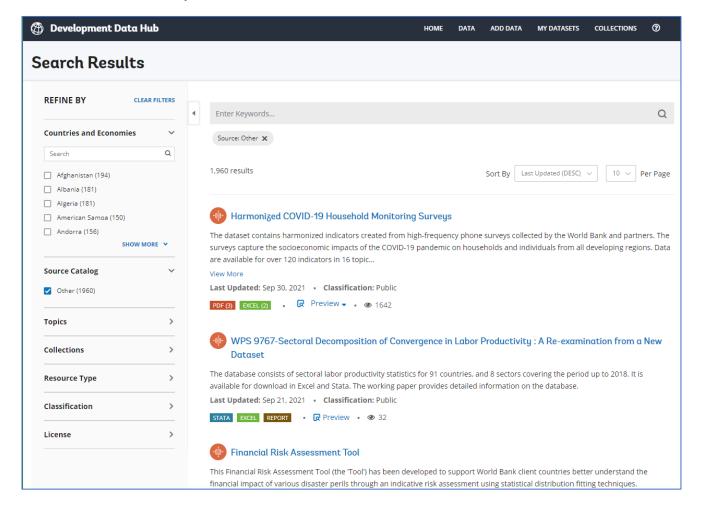
http://datacatalog.worldbank.org

Data Collections Getting Started FAQs





What we publish: LOTS of data!



- The Data Catalog is a one-stop shop for all World Bank development datasets
- International statistics
- Macroeconomic indicators
- Research datasets
- Geospatial datasets
- World Bank operations data

Need Data?

- Fully searchable data catalog (>6,400 public)
- Seamlessly explore multiple catalogs:

Microdata Library, energydata.info, Open Finances, Open Data API, Library Network

- Filtering of search results
- Easily identify relevant data



Access

- Comprehensive, standards-based **metadata**
- Clarity around data access and licensing
- Support for public, official use and confidential* data



Sharing

- Cloud-based repository for data storage
- File and dataset versioning
- Simplified data deposit and curation
- Restricted data management
- Automation for adding and sharing data
- Impact **metrics** on data use and impact



Data (Re)Use

- Enhanced data delivery through APIs and web services
- Built-in API data access for tabular data (CSV, Excel)
- Geospatial vector data available as feature services
- Raster data (imagery) available as cloudoptimized GeoTiffs (COGs)
- Large dataset support (volume or size)



Value

- Make data easier to use
- Foster awareness and understanding



Data products that are easy to use

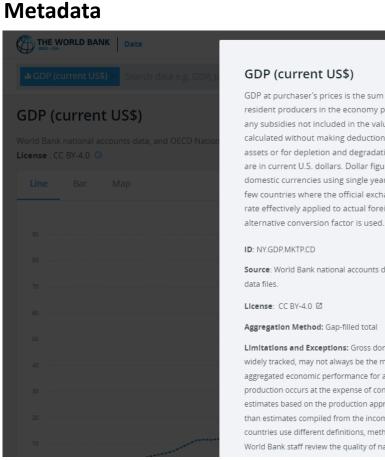
✓ Discoverable



Data products that are easy to use

✓ Understandable

✓ Discoverable



GDP at purchaser's prices is the sum of gross value added by all resident producers in the economy plus any product taxes and minus any subsidies not included in the value of the products. It is calculated without making deductions for depreciation of fabricated assets or for depletion and degradation of natural resources. Data are in current U.S. dollars. Dollar figures for GDP are converted from domestic currencies using single year official exchange rates. For a few countries where the official exchange rate does not reflect the rate effectively applied to actual foreign exchange transactions, an

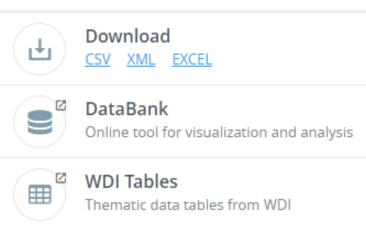
Source: World Bank national accounts data, and OECD National Accounts

Limitations and Exceptions: Gross domestic product (GDP), though widely tracked, may not always be the most relevant summary of aggregated economic performance for all economies, especially when production occurs at the expense of consuming capital stock. While GDP estimates based on the production approach are generally more reliable than estimates compiled from the income or expenditure side, different countries use different definitions, methods, and reporting standards. World Bank staff review the quality of national accounts data and



Data products that are easy to use

- **✓** Discoverable
- **✓** Understandable
- **✓** Accessible





Data products that are easy to use

https://data.worldbank.org

- **✓** Discoverable
- ✓ Understandable
- **✓** Accessible

Accessing the World Bank Data APIs in Python, R, Ruby & Stata

TARIQ KHOKHAR | JULY 22, 2013

This page in: English















Developers, analysts and researchers often use our data through the APIs we provide. We've written

Microdata Library (4000+ datasets)



Featured collections

The Microdata Library is a collection of datasets from the World Bank and other international, regional and national organizations



High-Frequency Phone Surveys (HFPS)



Global Financial Inclusion (Global Findex) Database



Living Standards Measurement Study (LSMS)





https://microdata.worldbank.org

Data from World Bank Contributing Catalogs

- Global Financial Inclusion Database (FINDEX)
- Living Standards Measurement Surveys (LSMS)
- World Bank Group Country Opinion Surveys
- Enterprise Surveys

Metadata and Data from External Contributing Catalogs

- Demographic and Health Surveys (DHS)
- Afrobarometer
- Openly Accessible Data and Documentation.
 Copyrighted, free to access online, additional usage rights granted to any user through a Public License.
- Citation Repository A repository of cited works that use the data in the catalog
- Metadata API

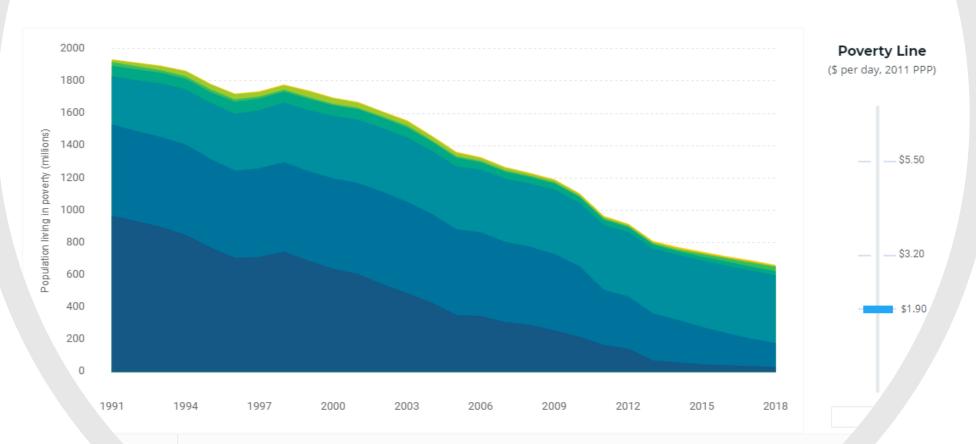


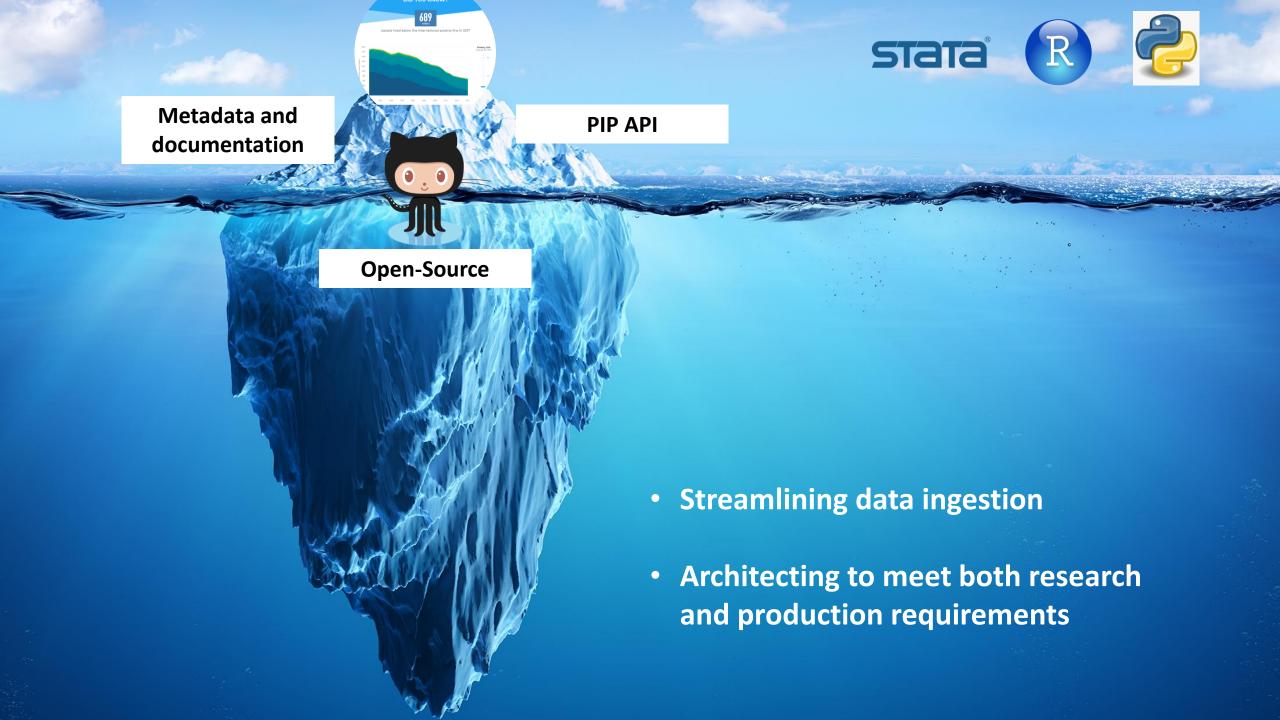
DID YOU KNOW?



Take à

people lived below the \$1.90 per day poverty line in 2018





Key take-aways and trade-offs

√ On the pipeline

- ✓ Everything is done through code: Transparency, traceability
- ✓ Code is packaged: maintenance, documentation, robustness
- ✓ Leverage specialized tools: No need to re-invent the wheel, leverage existing ecosystem

Key take-aways and trade-offs

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✓ On project management

- ✓ Use Github and its features (issue tracking, teams, etc.)
- ✓ Need to set-up a full production pipeline early that enable the deployment of a minimal, light-weight end-to-end working product

Key take-aways and trade-offs

✓ On the pipeline

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- ✓ Leverage specialized tools: No need to re-invent the wheel, leverage existing ecosystem

✓ On project management

- ✓ Use Github and its features (issue tracking, teams, etc.)
- ✓ Push harder for setting-up a full production pipeline early that enable the deployment of a minimal, light-weight end-to-end working product

✓ On architecture

- ✓ Use specialized framework to design APIs
- ✓ Use Docker to ensure replicability

Fundamental principles of statistics Putting the "mental" in it



Data visualization and storytelling

- Improving society's fact-based view of the world is vital for progress, and the World Bank's role as an international organization does not stop at publishing databases and research papers.
- The World Bank Data Group wants to **highlight and explain data through stories** and engaging visualizations. The goal is to help users and the public to better understand what the data and research are showing and how they can be used to gain insight.
- Examples of this work include the Atlas of Sustainable Development Goals, World Development Report, Data Stories, The Changing Wealth of Nations, Statistical Performance Index.

Fundamental principles of statistics Putting the "fun" in it

Foster awareness and understanding



World Bank Atlas 1966





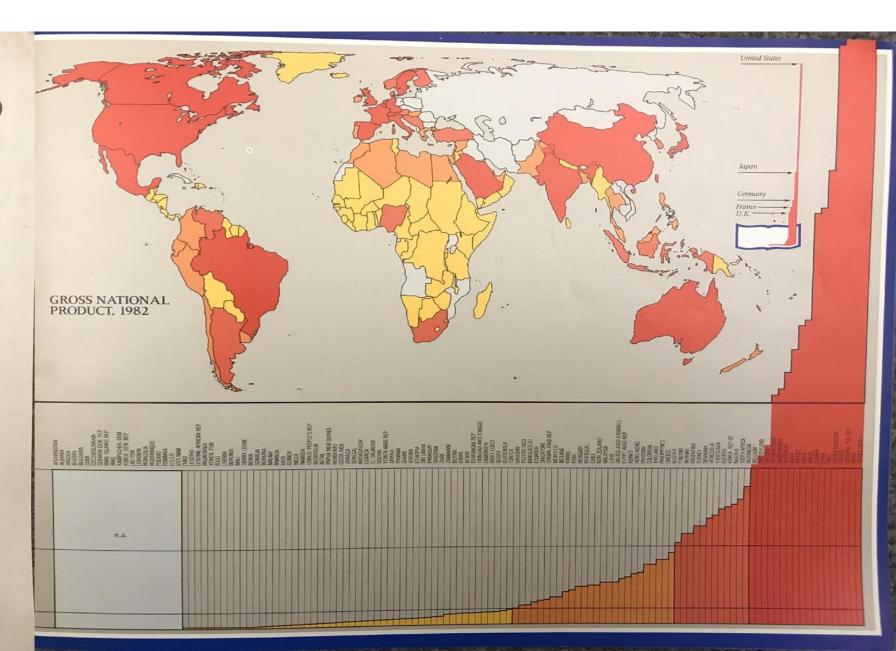
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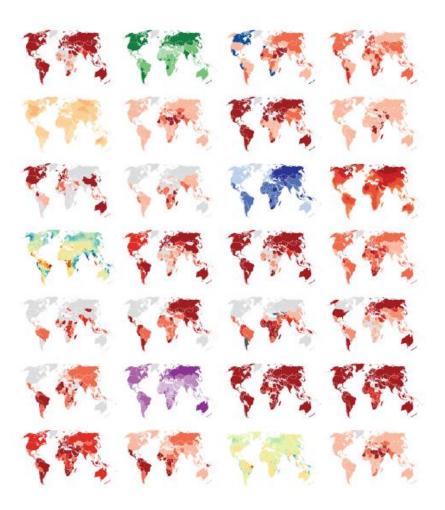
THE WORLD BANK ATLAS 1985

Population
Gross national product
Gross national product per capita
Life expectancy
Infant mortality
Primary school enrollment

For 189 countries and territories



Atlas of Sustainable Development Goals 2017 From World Development Indicators

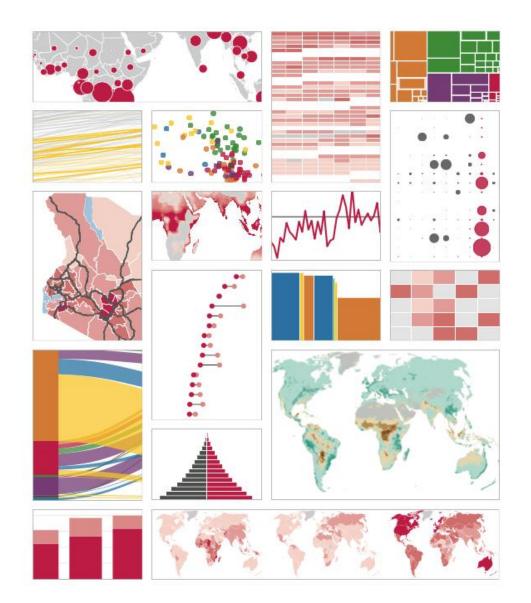




Atlas of Sustainable 2017 From Wor

WORLD BANK GROUP

2018 Atlas of Sustainable Development Goals From World Development Indicators



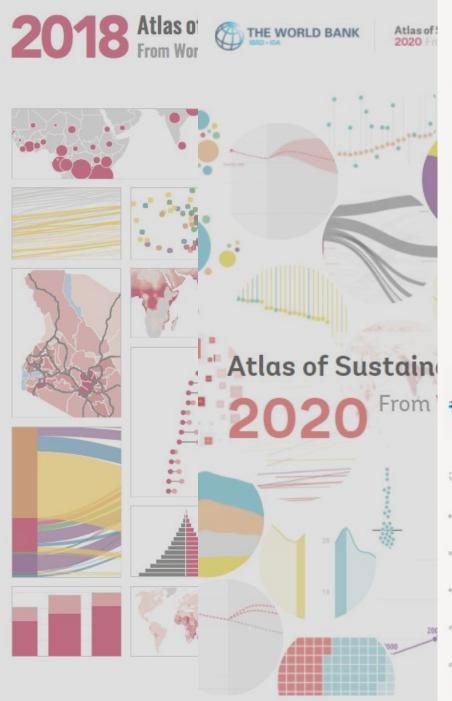
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ATLAS of Sustainable Development Goals

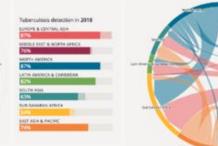
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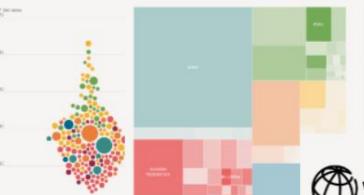
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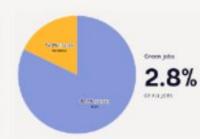
● Korth Amoroo



























ATLAS of Sustainable Development Goals

•••••••











2023













The Atlas of Sustainable Development Goals

- The Atlas communicates complex information about sustainable development in an accessible and inclusive manner by showcasing trends for selected targets within each goal and explaining how the SDGs are measured.
- It brings together data from the World Development Indicators database, as well as information from other sources, including national and international agencies, as well as data produced by academic institutions and other researchers.
- Each chapter of the online publication focuses on one SDG and uses a combination of **interactive storytelling and visualizations**.

Trust / Accountability

- Public eye scrutiny
- Minimize risks
- Institutional knowledge



Build trust through transparency and reproducibility

✓ Reproducible publications

SDG Atlas 2018:

https://github.com/worldbank/sdgatlas2018



Build trust through transparency and reproducibility

- ✓ Reproducible publications
- ✓ Transparent computations

World Bank Poverty Estimates:

https://pip.worldbank.org/

https://github.com/PIP-Technical-Team/pipapi



Build trust through transparency and reproducibility

- **✓** Reproducible publications
- **✓** Transparent computations
- **✓** Trust





Open Data Toolkit helps countries make data openly available

- ODAT can help countries assess why gaps in adopting open data practice exist and can help address them
- ODAT also focuses on providing technical tools for adopting open data practices

https://opendatatoolkit.worldbank.org/en/data/opendatatoolkit/home

Supporting client countries on building open data infrastructure:



The Business Case for Open Data

- Openness, Transparency & Accountability
- Improved Public Services
- Innovation & Citizen Engagement
- Public Sector Efficiency
- Economic Value/New Market
 Opportunities

Thank you!

Questions? Please write to us at: data@worldbank.org

Q&A



Maddalena Moro Data.europa.eu



Silvana Fumega
Director,
Global Data Barometer



Ana Florina Pirlea Statistician, World Bank



Stay up-to-date on our 2024 activities!





Take the floor at EU Open Data Days 2025, 19-20 March 2025! Share your inspiring initiatives and successful projects on how to empower EU society with data.

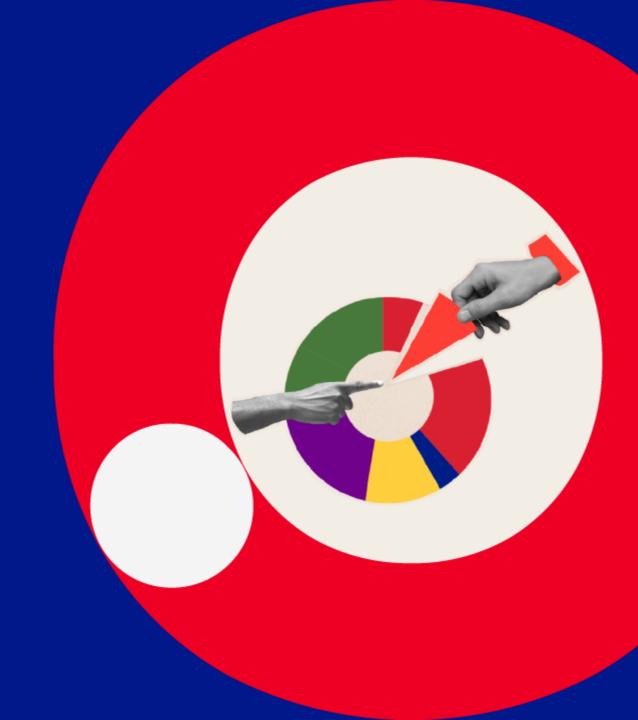




Your opinion is important to us



data. europa academy



Thank you

data. europa academy

