

Open Data Workshop

OpenCon LatAm 2018

Slides URL: <https://tinyurl.com/openconlatam-data>

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CivicDataLab

Data | Tech | Design | Social Science



“A piece of knowledge, unlike a piece of physical property, can be shared by large groups of people without making anybody poorer.”

— Aaron Swartz, The Boy Who Could Change the World: The Writings of Aaron Swartz

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https://commons.wikimedia.org/wiki/File:Aaron_Swartz_3_at_Boston_Wikipedia_Meetup,_2009-08-18.jpg

DEFINITIONS

What is Open?

*“Open means **anyone** can **freely access, use, modify, and share** for **any purpose** (subject, at most, to requirements that preserve provenance and openness).”*

- OpenDefinition.org

What is Open Research?



Video Source: CC0 https://en.wikipedia.org/wiki/File:Open_research.ogv

Why Open Research?

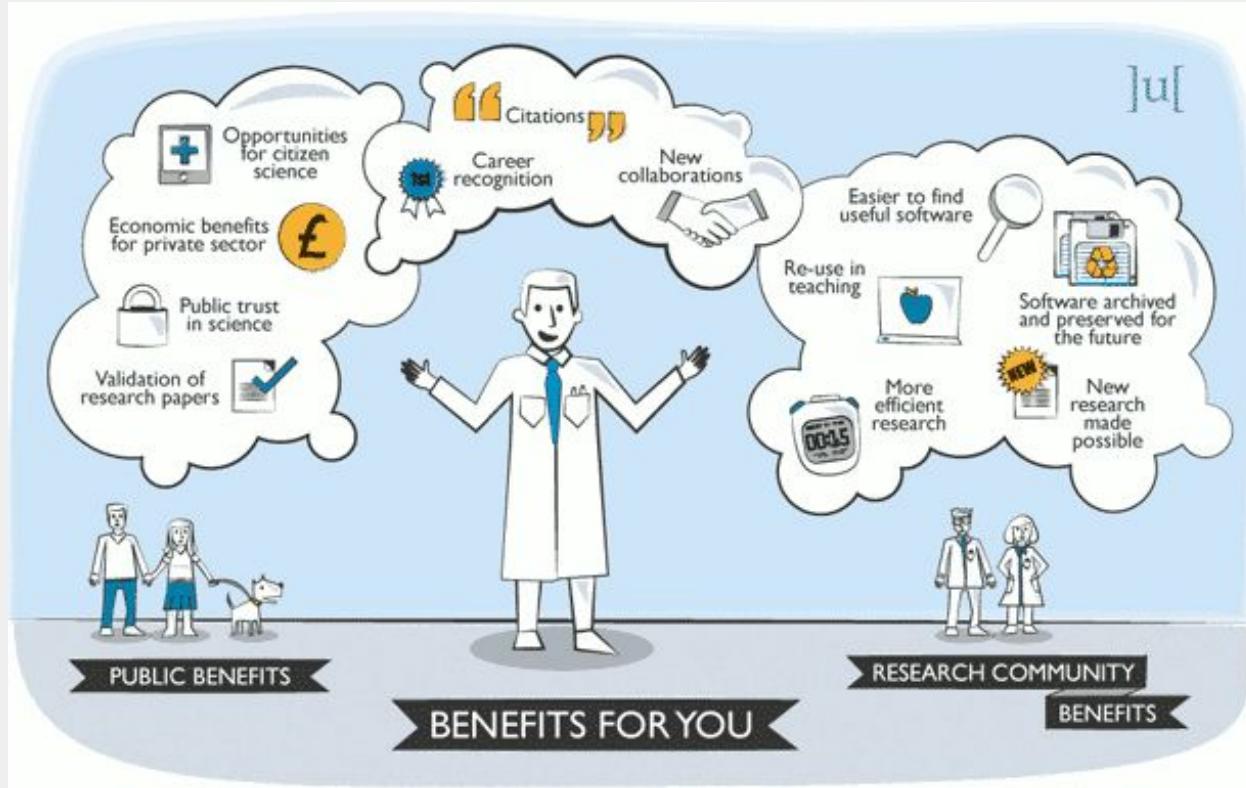


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What is Open Data?

*“Open data is data that can be **freely used, re-used and redistributed by anyone** - subject only, at most, to the requirement to **attribute and share alike**.”*

- OpenDefinition.org

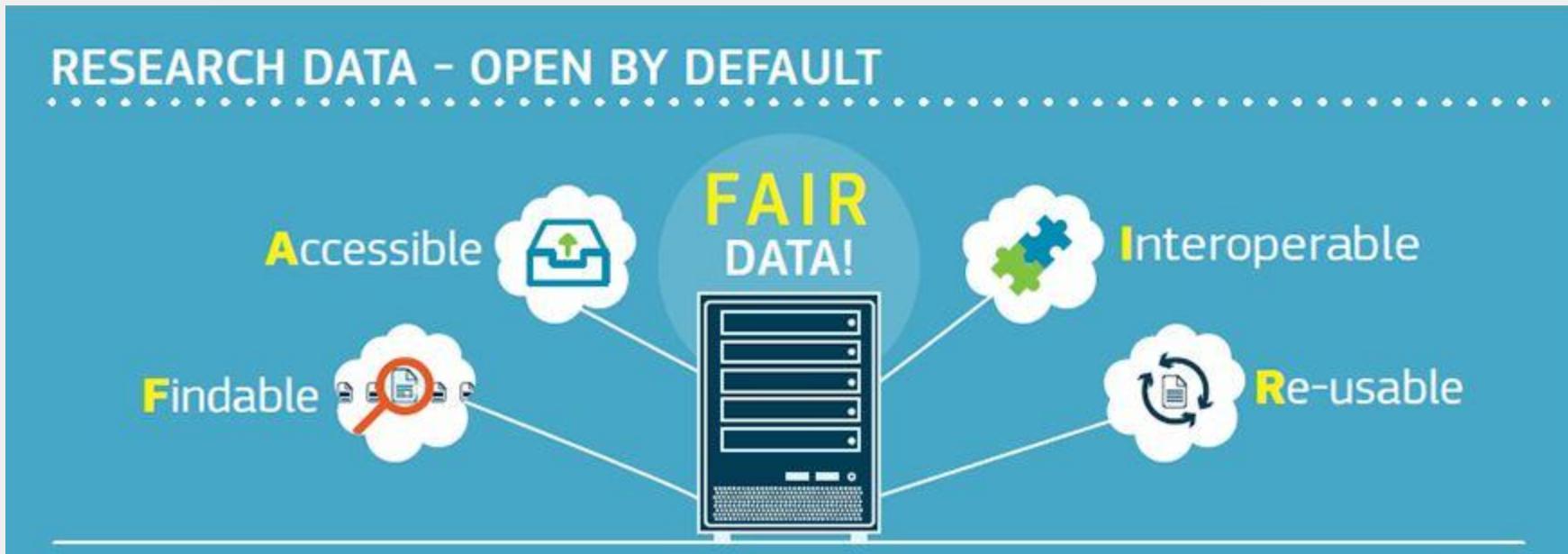
Why Open Data?

Implementation of open data policies would thus boost cumulative G20 GDP by around 1.1% points (almost 55%) of the G20's **2%** growth target over five years.

Why Open Data?

Combining all G20 economies, output could increase by **USD 13 trillion** cumulatively over the next five years.

Open Research Data



Open Data Licences

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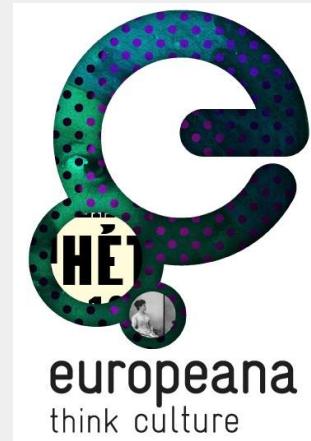
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Europeana puts more than 20 million records into the public domain using CC0.

The Europeana dataset consists of descriptive information from a huge trove of digitized cultural and artistic works.



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[Figshare](#) has adopted CCO as the default tool for researchers to share their datasets, it is a way to remove any legal doubt about whether researchers can use the data in their projects.



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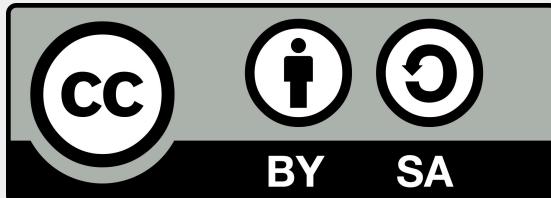


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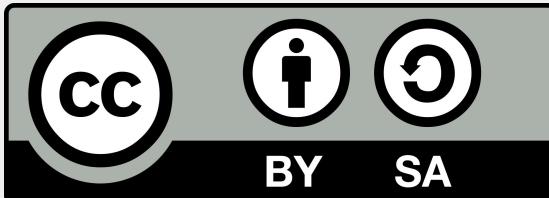


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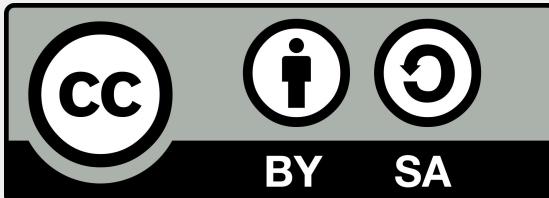
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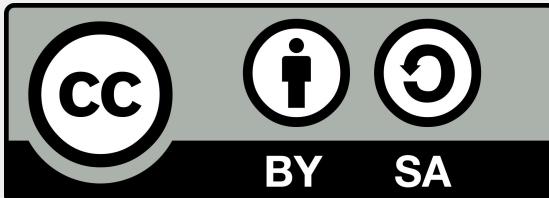
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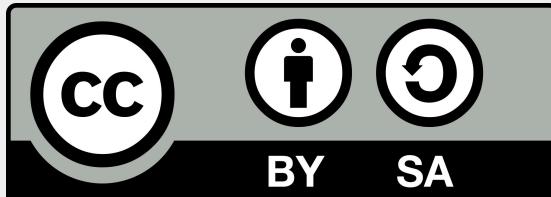
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DBpedia is a Public Data Infrastructure for a Large, Multilingual, Semantic Knowledge Graph. DBpedia 2016-10 release consists of 13 pieces of information (RDF triples).
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Creative Commons Or Open Data Commons?

- What is the difference between the Open Data Commons licenses and the CC 4.0 licenses?
- Why Not Use a Creative Commons (or Free/Open Source Software License) for Data(bases)?

Tim Berners-Lee's 5-Stars of Open Data

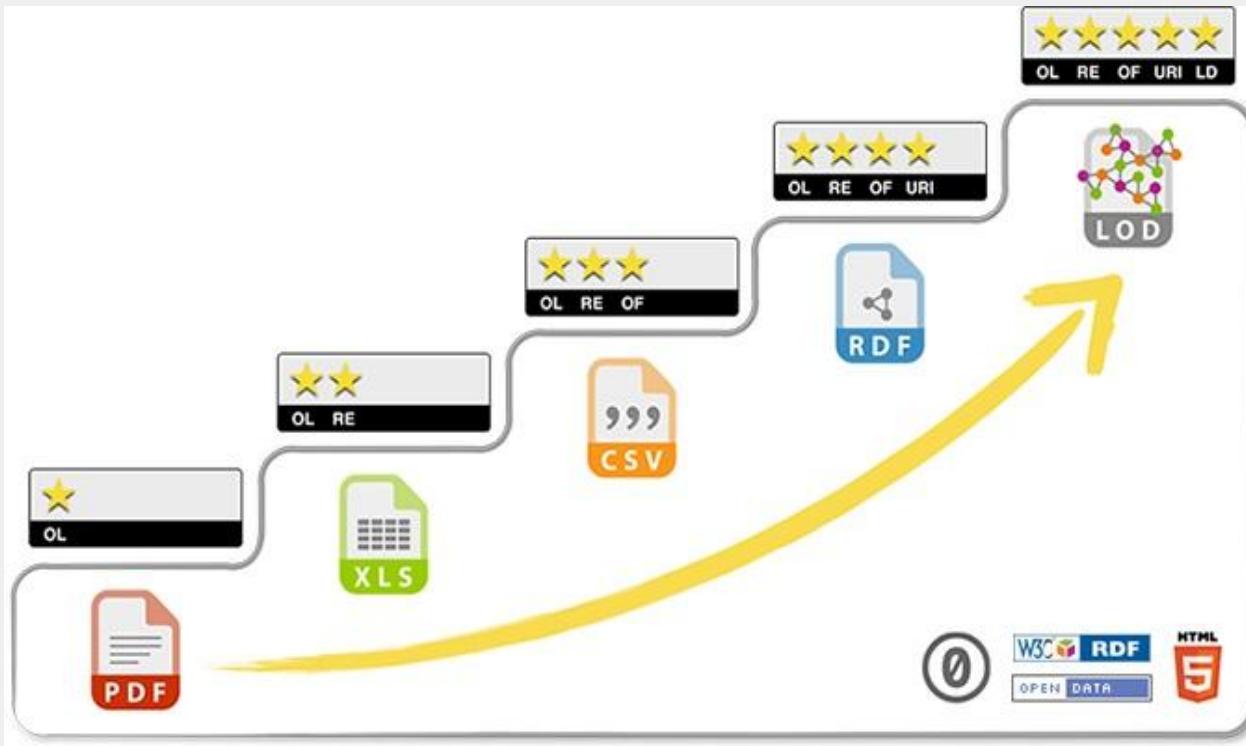
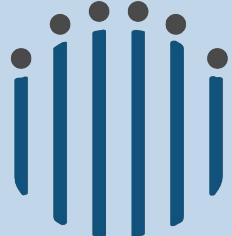


Image Source: http://ec.europa.eu/newsroom/itemdetail.cfm?item_id=27191&newsletter=126



Open Budgets India BETA

Making India's Budgets open, usable and easy to comprehend



CivicDataLab

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Email: gaurav@civicdatalab.in

Government budgets explain
real priorities and values of the
state and its people

150+ Budget Formats

14

Notes on Demands for Grants, 2016-2017

MINISTRY OF AGRICULTURE AND FARMERS WELFARE

DEMAND NO. 2

Department of Agricultural Research and Education

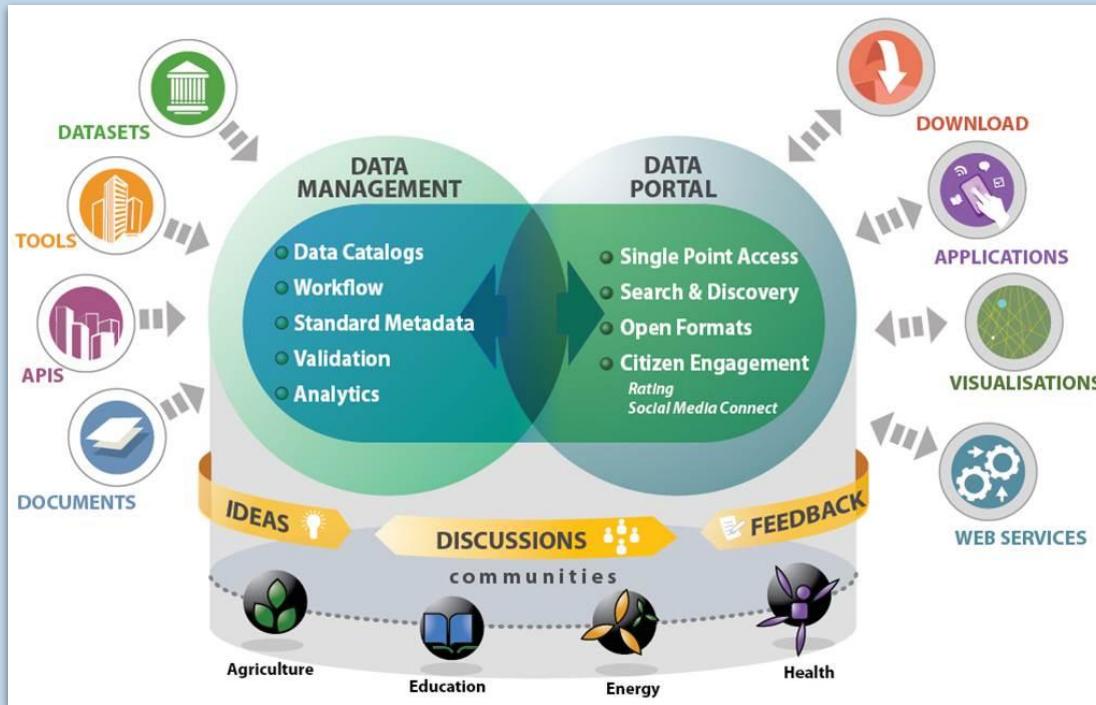
A. The Budget allocations, net of recoveries, are given below:

ವಿವರಗಳು Particulars	ದ್ವಾರಾ ಬಳಸಲಾಗುವ Accounts 2014-15
03. ಪ್ರಾಜೆಕ್ಟು ಮತ್ತು ಲೈಂಗ್ ಪ್ರಮಾಣಗಳು <u>Finance, Accounts &</u> <u>Government Grants</u>	
ಅಧಿಕ ಪ್ರಾಜೆಕ್ಟು ಇಲಾಖೆಯ ವರ್ಗಗಳು CA, Liabilities	
ದೊರಕಾಗಿ Deposits	R0006
ಹಾಳೆಯ EMD	
ಹಿನ್ನೆಲೆಯ ಕಾಲ ಮತ್ತು ಮಾನವರೂಪ ಪ್ರಮಾಣಗಳು	=
Recovery of Loans & Advances from Employees	
	R0017
ಹಿನ್ನೆಲೆಯ ಮತ್ತು ಅರೆ ಮಾನವರೂಪ ಪ್ರಮಾಣಗಳು	
Recovery of Computer Advances & Other Advances	=
	R0019
ಹಿನ್ನೆಲೆ ಮಾನವರೂಪ ಪ್ರಮಾಣಗಳು	
Recovery of Festival Advance	=
	R0020

Major Head	Actual 2014-2015			Budget 2015-2016			Revised 2015-2016			Budget 2016-2017			
	Plan	Non-Plan	Total	Plan	Non-Plan	Total	Plan	Non-Plan	Total	Plan	Non-Plan	Total	
	Revenue Capital	2456.82	2383.19	4840.01	3691.00	2629.00	6320.00	3000.00	2586.00	5586.00	3700.00	2920.00	6620.00
3451	13.36	13.36
2415	220.00	406.37	626.37	626.37
2552	40.00	...	40.00	40.00
Total	260.00	406.37	666.37	666.37
2415	103.00	...	103.00	103.00
2552	7.00	...	7.00	7.00
Total	110.00	...	110.00	110.00
Capital & Climate	370.00	406.37	776.37	776.37
2415	506.00	865.48	1371.48	1371.48
2552	14.00	...	14.00	14.00
Total	520.00	865.48	1385.48	1385.48

ಕರ್ನಾಟ - 1 ಅಧಿಕಾರಿಗಳ ಸಂಖ್ಯೆ : 03			2020
	ಅಧಿಕಾರಿ ವಾಚನಕ್ಕಾಗಿ ಬಿಂಬಿಸಬಹುದಾಗಿರುವ ಪಾತ್ರ	Heads of Account/Dem No and Share Code	ದೇಶ F
		1	
01	ಪಾರಿಷಾಲ್ ಸ್ಟಾಟ್	Collection Establishment	
002	ಪರಿಂತ - ಪಾರಿಷಾಲ್	Pay-Officers	
003	ಪಾರಿಂತ	Pay-Staff	
014	ಪಾರಿ ದೀಪ	Dearness Allowance	
020	ಮಾರ್ಚ್ಯಾಲ್ ಡಿಪ್	Medical Expenses	
021	ಮಾರ್ಚ್ಯಾಲ್ ಮಾರ್ಚ್ಯಾಲ್ ಹಾಸಪಾತ್ರ	Reimbursement of Medical Expenses	
041	ಆರೋಗ್ಯ ಸ್ಟಾಟ್	Travel Expenses	
051	ಆರೋಗ್ಯ ಸ್ಟಾಟ್	General Expenses	
052	ಆರೋಗ್ಯ ಪ್ರಾರ್ಥಣೆ	Telephone Charges	
195	ಸಾರ್ವ ಸ್ಟಾಟ್	Transport Expenses	
		Total 01	V
2020-04-105-0-0-04		[03]	
04	ದಿನಿಗೆ ಮತ್ತು ಸಾರ್ವ ಸ್ಟಾಟ್ ಪಾತ್ರಗಳು	Waiver of Tax and Interest Dues	
103	ಆರೋಗ್ಯ-ಸಾರ್ವ-ಪ್ರಾರ್ಥಣೆ - ಸಾರ್ವ-ಪ್ರಾರ್ಥಣೆ	Grants-Aid-in-General	
		Total 04	V
		Total 105	V
108	ಸಾರ್ವಾದ ಪ್ರಾರ್ಥಣೆ ಡಿಪ್	Interest on Refunds	
2020-04-106-0-0-01		[03]	
01	ಸಾರ್ವಾದ ಪ್ರಾರ್ಥಣೆ ಡಿಪ್	Interest on Refunds	

National Data Sharing & Accessibility Policy



Open Budget Survey

OPEN BUDGET SURVEY 2017

INDIA

INTERNATIONAL
BUDGET PARTNERSHIP



48
OUT OF 100

TRANSPARENCY OPEN BUDGET INDEX

India provides the public with **limited** budget information.



15
OUT OF 100

PUBLIC PARTICIPATION

India provides **few** opportunities for the public to engage in the budget process.

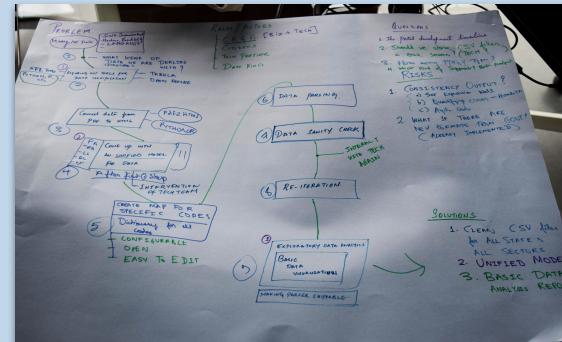
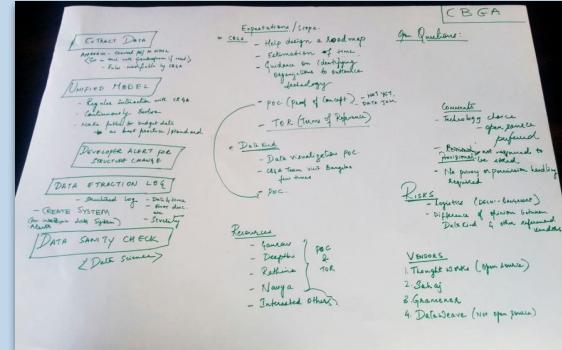


48
OUT OF 100

BUDGET OVERSIGHT

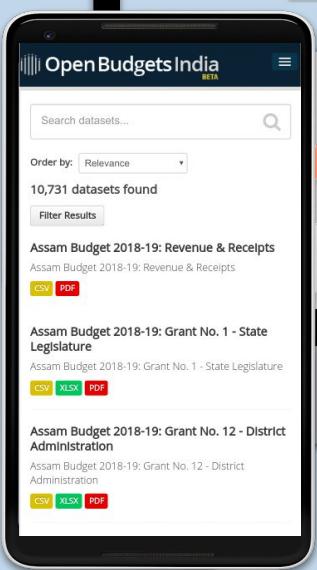
BY LEGISLATURE & AUDIT
The legislature and supreme audit institution in India provide **limited** oversight of the budget.

Communities Coming Together



The Platform

<https://openbudgetsindia.org/>



The tablet screen displays the desktop version of the Open Budgets India website. At the top, the navigation bar includes "The Portal", "Datasets", "Budget Basics", "Story Generator", and "Union Budget Explorer". Below the navigation is the "Open Budgets India" logo with a stylized blue graphic. A search bar with the placeholder "Search for Datasets" and a magnifying glass icon is present. A banner below the search bar states "Explore 10.7k datasets from 471 Budget Sources". On the right side of the screen, there is a promotional section for the "Union Budget Explorer". It features the text "Introducing Union Budget Explorer" above a circular network diagram composed of colored dots (red, orange, blue) connected by lines. Labels on the diagram include "Total Receipts" and "Total Budgetary Expenditure". Below the diagram, a text block explains that the Union Budget Explorer is a dashboard for exploring data, visualizations, and insights on the Union Budget, incorporating data from the Budget at a Glance, Expenditure Budget, Receipts Budget, and Schemes on Major Central Schemes. A blue "Explore!" button is located at the bottom right of this section. The bottom right corner of the tablet screen features the CKAN logo, which consists of a red triangle above a yellow triangle above a white triangle, followed by the word "ckan" in a large, dark font.

Key Features



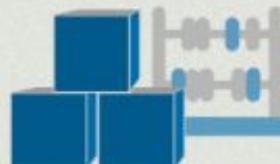
Budget Documents (PDFs)



Machine Readable Datasets



Data Visualizations



Budget Basics

Data Coverage Across Tiers of Governments

Tiers of Government

Tiers of government refer to distinct levels of government set up for a particular country. In India, there are three tiers of government: Union, State and Local, the latter being either urban or rural.



Combined Budget
(Union & States)



Union Budget



State Budgets



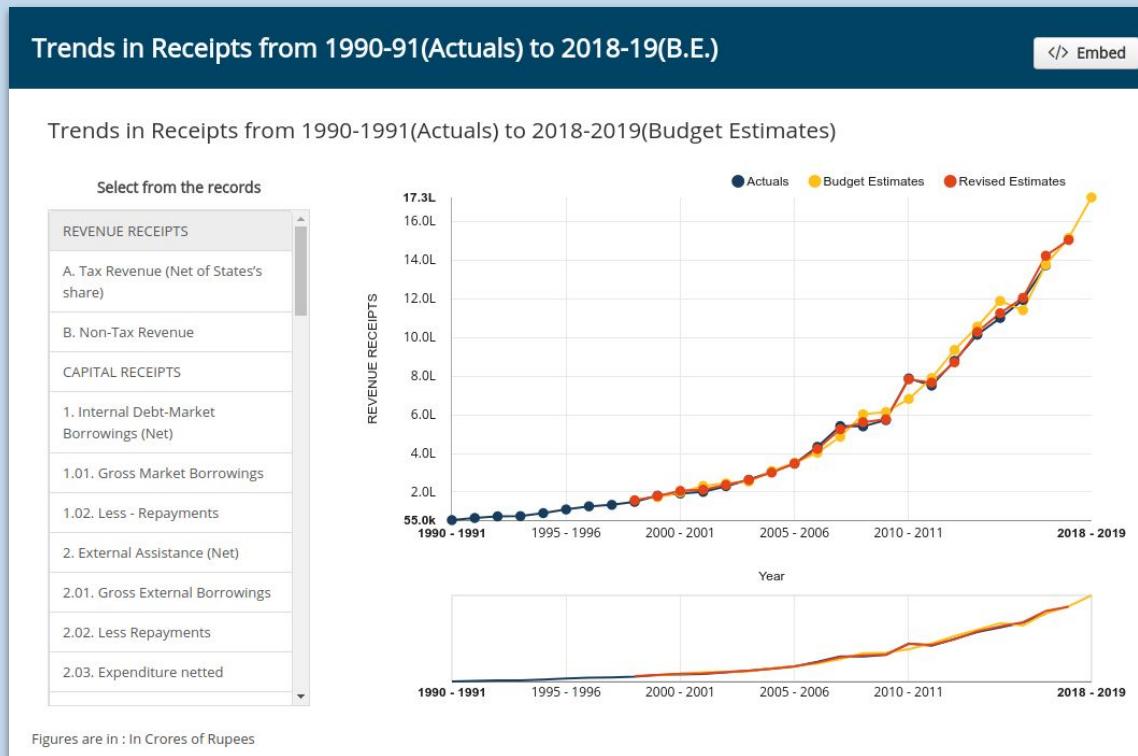
Municipal Corporation
Budgets

Publishing Budget Documents in Open Formats

The screenshot shows the Open Budgets India website interface. At the top, there is a dark header bar with the logo 'Open Budgets India' and the word 'BETA'. Below the header, the page title is 'Datasets'. On the left, there is a sidebar with filters for 'Budget Sources' (Ministry of Defence, Ministry of Culture, Ministry of Corpora..., Ministry of Coal, Ministry of Civil A..., Ministry of Ayurved..., Lok Sabha, Law and Justice, Interest Payments, Indirect Taxes), 'Sectors' (none found), and 'Tags' (none found). The main content area has a search bar with placeholder text 'Search datasets...' and a magnifying glass icon. Below the search bar, it says '100 datasets found' and 'Order by: Relevance'. There is a tag filter 'Tags: union budget 2018' with a delete button. The first dataset listed is 'Union Budget (2018-19) - Ministry of Earth Sciences', which is described as 'Total Union Budget Allocation for schemes under the Ministry of Earth Sciences. It includes expenditure for Ocean Survey and Mineral Resources, Ocean Technology ,mosphere and...'. It has download buttons for CSV, XLSX, and PDF. The second dataset is 'Union Budget (2018-19) - Central Vigilance Commission', described as 'Total Union Budget allocation for Central Vigilance Commission under the Ministry of Personnel, Public Grievances and Pensions. It contains budgetary allocations for...', also with CSV, XLSX, and PDF download buttons. The third dataset listed is 'Union Budget (2018-19) - Union Public Service Commission', described as 'Total Union Budget Allocation for Union Public Service Commission under The President, Parliament, Union Public Service Commission and the Secretariat of the Vice President. It...', also with CSV, XLSX, and PDF download buttons. The bottom of the list shows the start of another dataset: 'Union Budget (2018-19) - Ministry of Panchayati Raj'.

<https://openbudgetsindia.org/dataset?tags=union+budget+2018>

Budget Data Time-series & Visualizations



<https://openbudgetsindia.org/dataset/trends-in-receipts>

Clean Machine Readable Data via APIs

Budget Code	Particulars (Rs. in Lakhs)	Voted/ Charged	2014-15 Accounts Plan	2014-15 Accounts Non-Plan	
2210-01-110	Hospitals & Dispensaries	Voted	23114.16	38086.05	
2210-01-110-1	Hospitals Attached to Teaching Institutions	Voted	18635.22	29875.05	
2210-01-110-1-13	Buildings	Voted	18.3	115.97	
2210-01-110-1-13-147	Land & Buildings		14	115.97	
2210-01-110-1-13-422	Schedule Caste Sub Plan		3	...	
2210-01-110-1-13-423	Tribal Sub Plan		1.3	...	
2210-01-110-1-17	Buildings (for Drugs Control Dept.)	Voted	65.96	...	
2210-01-110-1-17-147	Land & Buildings		65.96	...	
2210-01-110-1-18	College Hospitals	Voted	427.63	6437.3	
2210-01-110-1-18-002	Pay-Officers		49.74	500.39	
2210-01-110-1-18-003	Pay-Staff		234.08	2338.99	
2210-01-110-1-18-004	Interim Relief		
2210-01-110-1-18-011	Dearness Allowance		68.83	710.8	

```
    }],
    "records": [
      {
        "Index": null,
        "Scheme": "",
        "Actual 2015-2016 Total": "15333.93",
        "Budget 2017-2018 Revenue": "52575.57",
        "Budget 2016-2017 Capital": "30.86",
        "Actual 2015-2016 Revenue": "15300.75",
        "Revised 2016-2017 Revenue": "48779.38",
        "Actual 2015-2016 Capital": "33.18",
        "Budget 2017-2018 Total": "52655.00",
        "Revised 2016-2017 Capital": "61.12",
        "Budget 2016-2017 Revenue": "35952.83",
        "Revised 2016-2017 Total": "48840.50",
        "Budget 2016-2017 Total": "35983.69",
        "_id": 1,
        "Type": "Gross",
        "Budget 2017-2018 Capital": "79.43"
    }
]
```

<https://openbudgetsindia.org/dataset/trends-in-receipts>

Budget Basics

Open Budgets India BETA

Budget Basics

Search docs

CONTENTS:

- Introduction
- Union Budget**
 - What does an Average Budget Cycle Look Like?
 - Preparation of the Budget
 - Major Changes in the Offing
 - What are the Union Budget Documents?
 - What are the Categories of Government Accounts?
 - What are the Components of the Consolidated Fund of India?
 - Other Ways of Classifying Expenditure
- Money Flow**
 - Where Does the Money Come From?
 - Where Does the Money Go?
 - Fiscal Deficit
 - States Budget
 - Municipal Corporation Budgets

Money Flow

The diagram illustrates the flow of money from different tax receipts to various government expenditures. The central circle is labeled "Union Budget of India". On the left, there is a stack of bars representing "Tax Receipts of the Union Budget" with percentages: 30.3% (darkest blue), 21.7%, 14.2%, 14.1%, 19.5%, and 0.3%. On the right, there is a stack of bars representing "Union Government Expenditure" with percentages: 24.91% (lightest green), 12.59%, 5.98%, 6.24%, 12.66%, and 37.62% (darkest green). Arrows point from each bar on the left to its corresponding bar on the right.

Tax Receipt Category	Percentage	Expenditure Category	Percentage
Taxes on UT	0.3%	Budgets under spending ministries	37.62%
Customs	14.1%	Subsidies	12.66%
Union Excise Duty	19.5%	Pension	6.24%
Service Tax	14.2%	Grants-in-aid to states	5.98%
Income Tax	21.7%	Defence	12.59%
Corporation Tax	30.3%	Interest Payments	24.91%

Where Does the Money Come From?

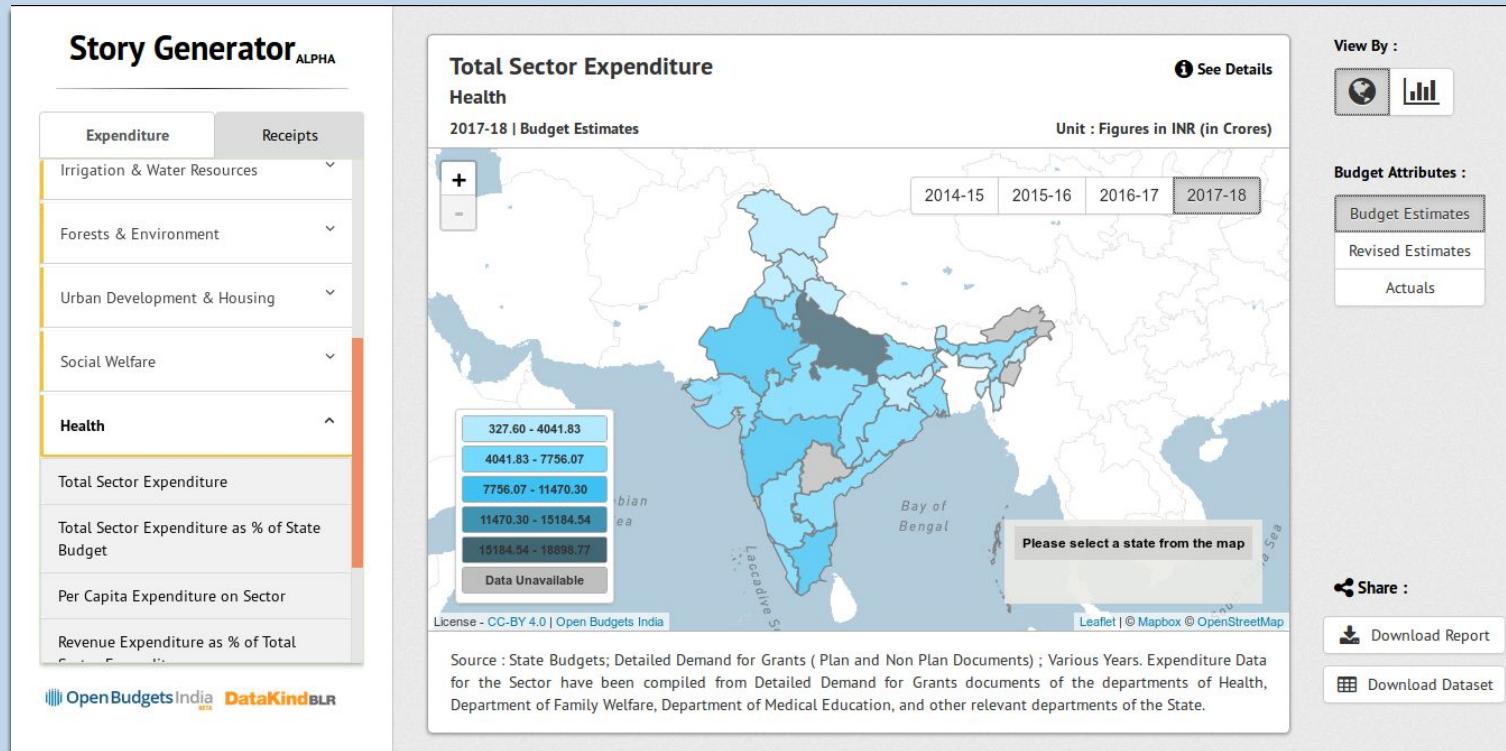
The different sources from which the government can raise resources can be broadly classified into the following:
* Tax Revenue
* Non-Tax Revenue
* Disinvestments/Borrowings
* Grants-in-Aid

Tax revenue is considered one of the most important sources of revenue for the government.

For example, in the financial year 2016-17 if the Gross Tax Collection expected by the Centre is Rs. 100, around Rs. 30 is from Corporation Tax, Rs. 21 from Income Tax, Rs. 14 from Customs, Rs. 19.5 from Union Excise Duties and Rs. 14 from Service Tax.

<https://openbudgetsindia.org/budget-basics/union-budget.html#money-flow>

Story Generator



<https://cbgaindia.github.io/story-generator/>

Story Generator

Story Generator ALPHA

Expenditure Receipts

- Irrigation & Water Resources
- Forests & Environment
- Urban Development & Housing
- Social Welfare
- Health**
- Total Sector Expenditure
- Total Sector Expenditure as % of State Budget
- Per Capita Expenditure on Sector
- Revenue Expenditure as % of Total

Open Budgets India **DataKind BLR**

Per Capita Expenditure on Sector

Health

Budget Estimates Unit : Figures in INR Rs.

See Details

Chhattisgarh Himachal Pradesh Madhya Pradesh Maharashtra Karnataka

Fiscal Year	Chhattisgarh	Himachal Pradesh	Madhya Pradesh	Maharashtra	Karnataka
2014-15	1200	1700	800	900	800
2015-16	1300	2200	750	950	750
2016-17	1550	2300	900	1050	900
2017-18	1700	2300	1000	1050	1000

Indicator

Fiscal Years

Source : Population data have been compiled from Census of India, 2011 from the document - Population Projections for India & States 2011-2016; OFFICE OF THE REGISTRAR GENERAL & CENSUS COMMISSIONER, INDIA.

View By :

Budget Attributes :

Budget Estimates Revised Estimates Actuals

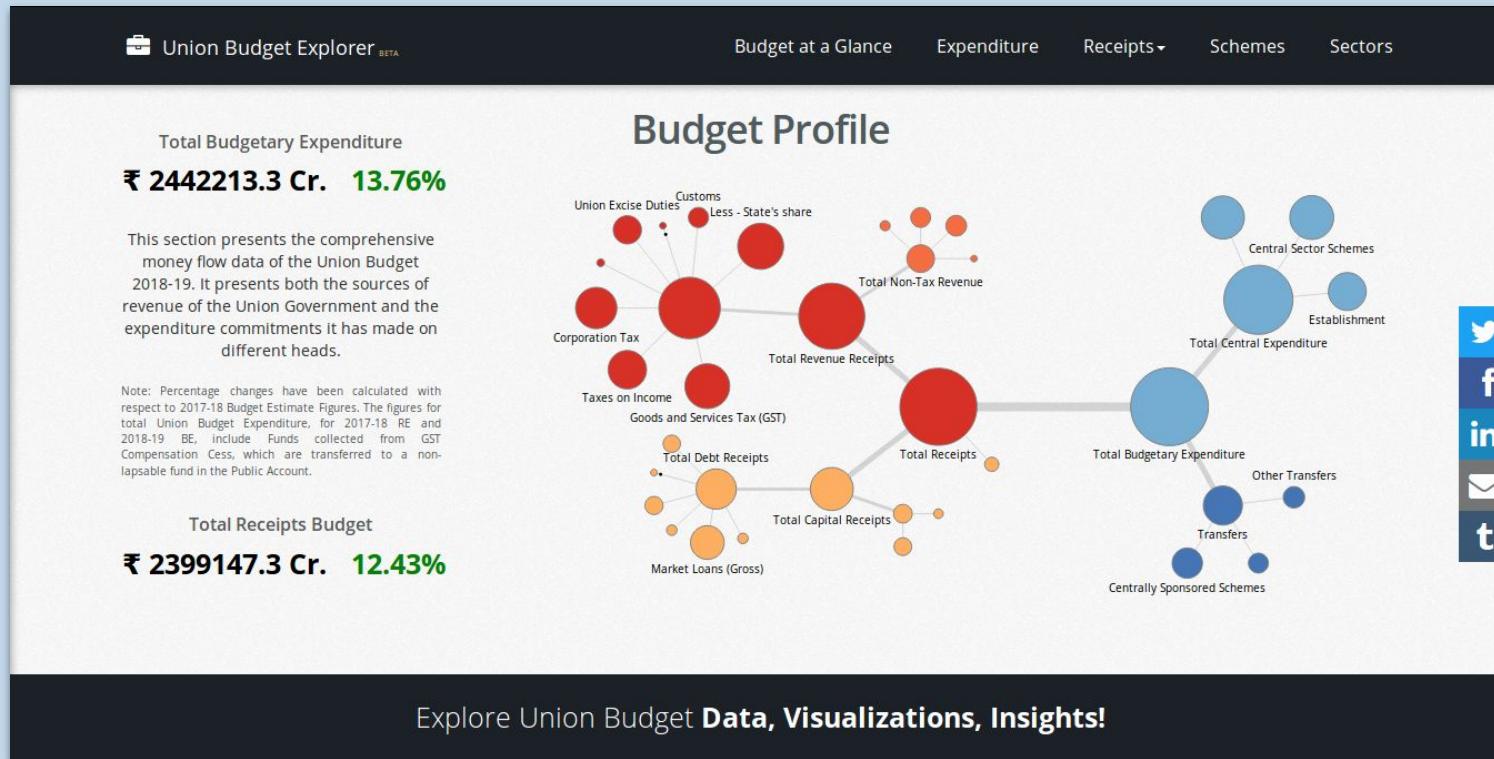
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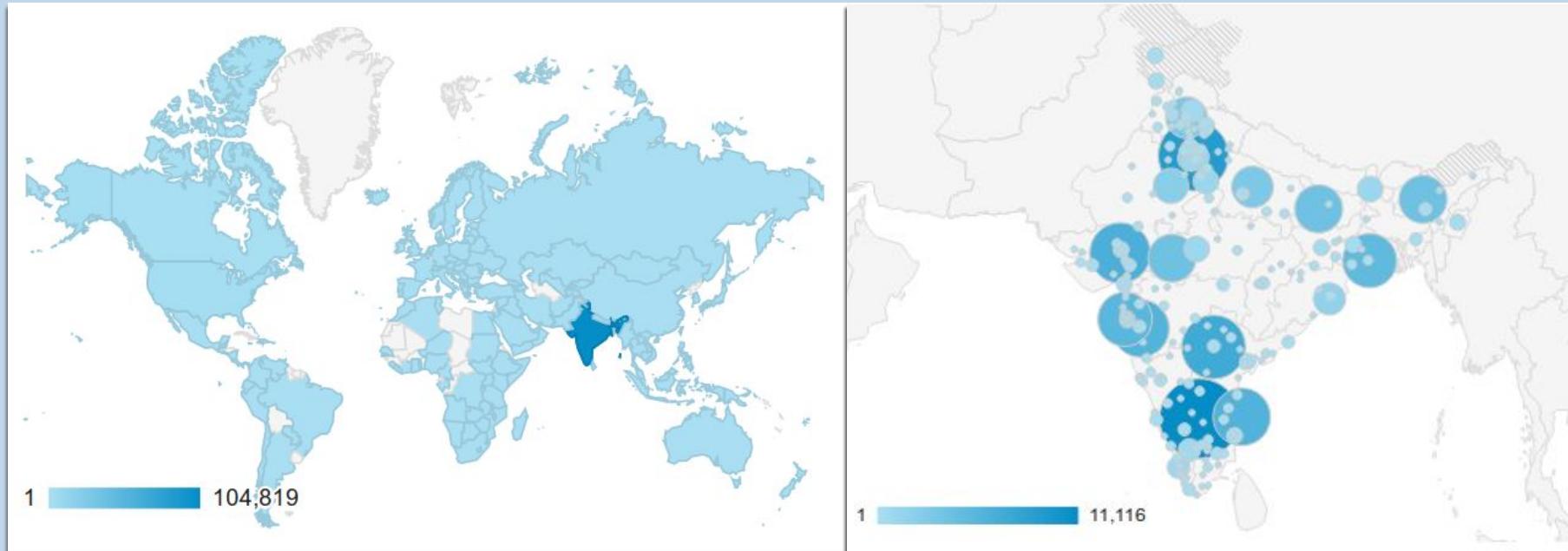
Download Dataset

<https://cbgaindia.github.io/story-generator/>

Union Budget Explorer - 2018-19



Our User Base



Source: Google Analytics

Media Adoption



The Gorakhpur And Farrukhabad Tragedies Are Symptoms Of A Larg...

The devolution of finances has not improved healthcare in BIMARU states.

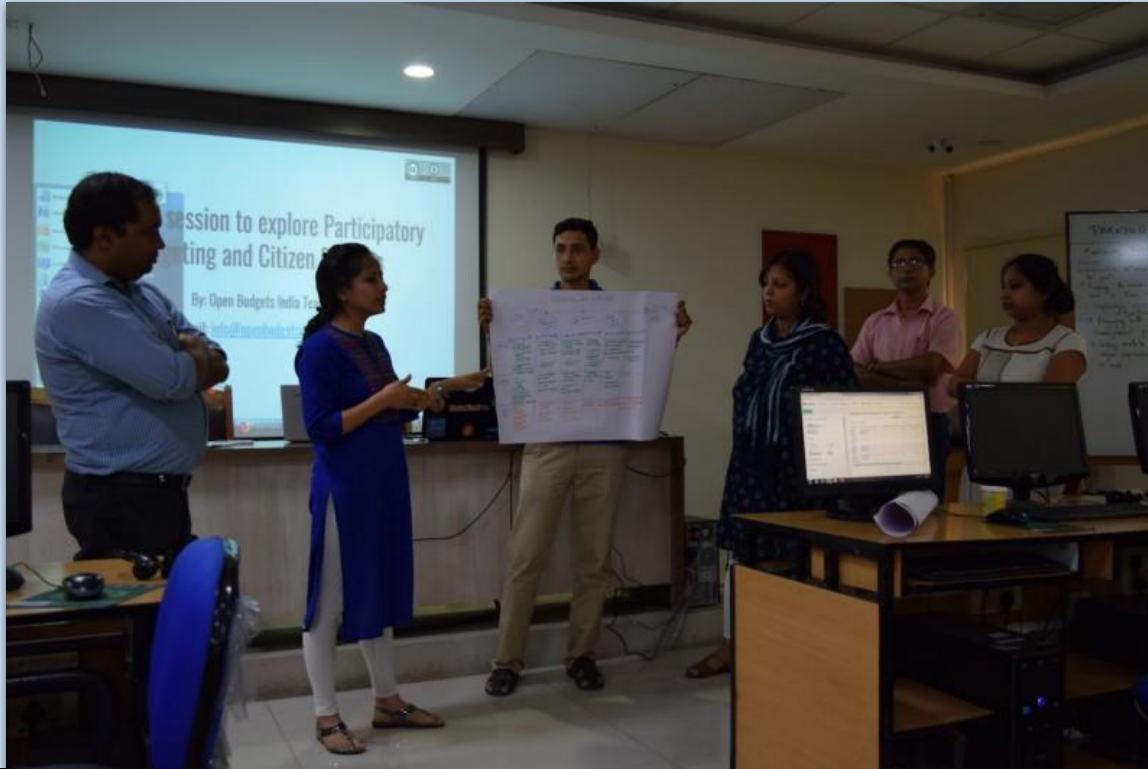
[huffingtonpost.in](http://www.huffingtonpost.in/vineet-john-samuel/the-gorakhpur-and-farrukhabad-tragedies-are-symptoms-of-a-larger-malaise_a_23194697/)

Collaborating With Governments



<https://blog.openbudgetsindia.org/open-budgets-indias-workshop-with-assam-s-finance-department-6f796b5f683b>

Collaborating With Governments



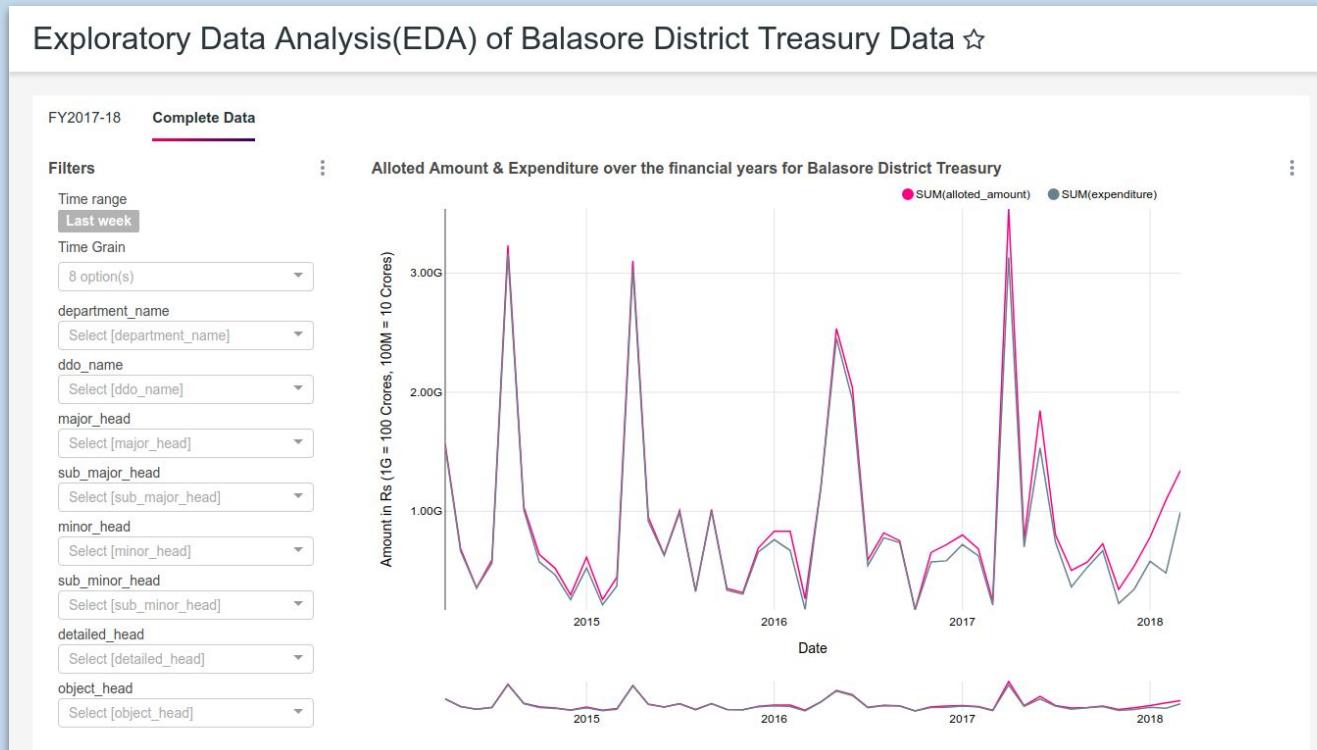
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Collaborating With Governments



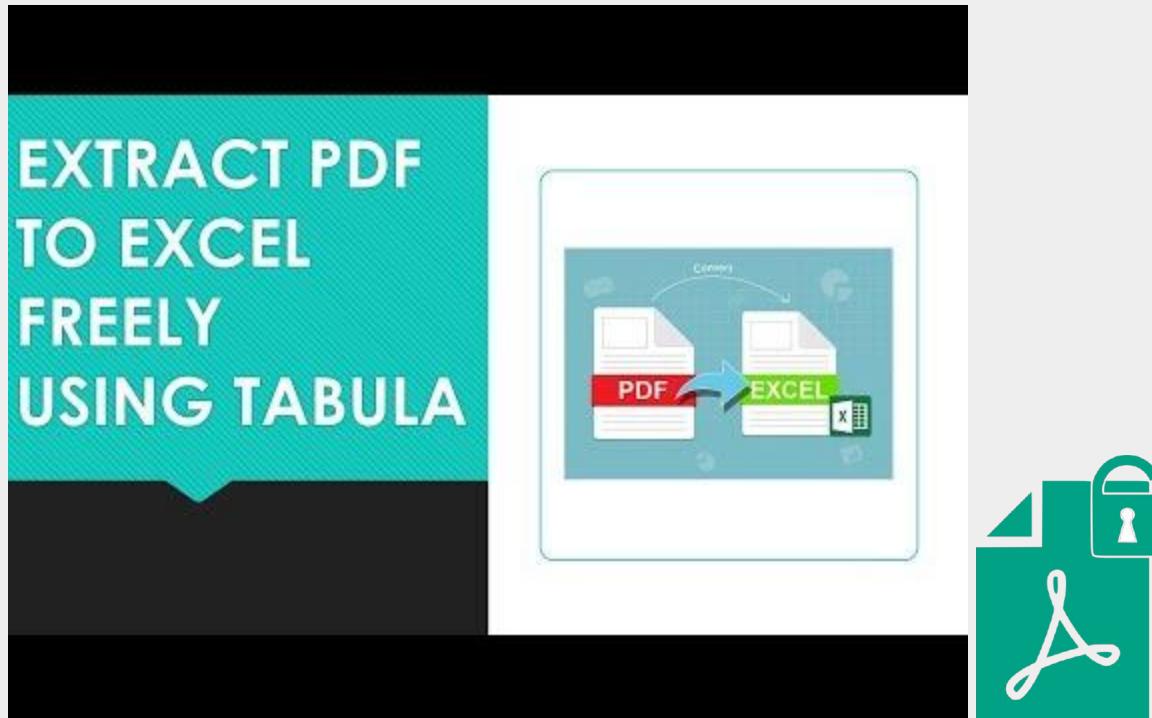
<https://blog.openbudgetsindia.org/open-budgets-indias-workshop-with-assam-s-finance-department-6f796b5f683b>

Future: Open Near-Realtime Spending Data



Open Source Tools For Open Data

Tabula



The image shows a screenshot of the Tabula website. On the left, there is a teal-colored box with white text that reads "EXTRACT PDF TO EXCEL FREELY USING TABULA". To the right of this box is a light blue rectangular area containing a diagram illustrating the conversion process. The diagram shows a red PDF file icon on the left and a green Excel file icon on the right, connected by a blue curved arrow pointing from the PDF to the Excel file. Below the diagram is a small Excel spreadsheet icon. To the right of this central area is a teal square icon featuring a white padlock and a white PDF file icon.

Tool: <https://tabula.technology/> Video Source: <https://www.youtube.com/watch?v=th9A1OzGvc0>

APACHE SUPERSET

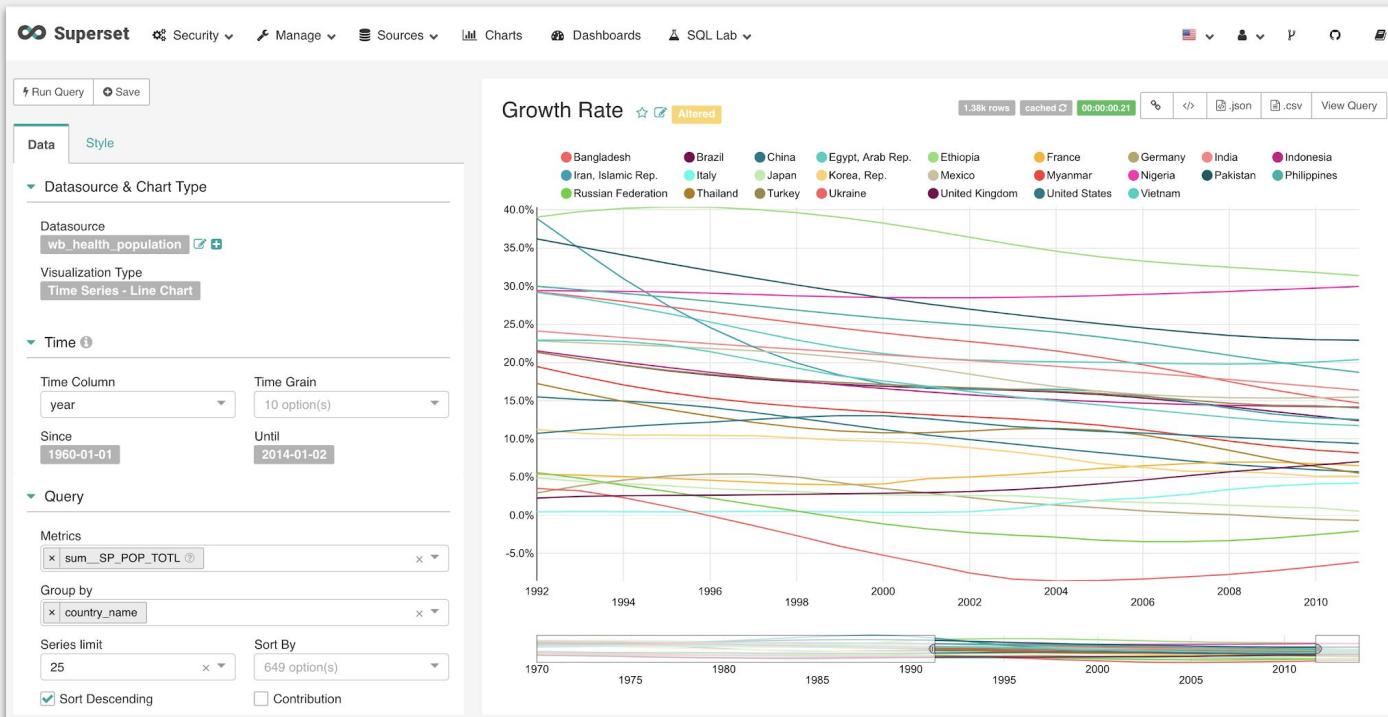


Image Source: <https://superset.incubator.apache.org/>

MIT's DIVE



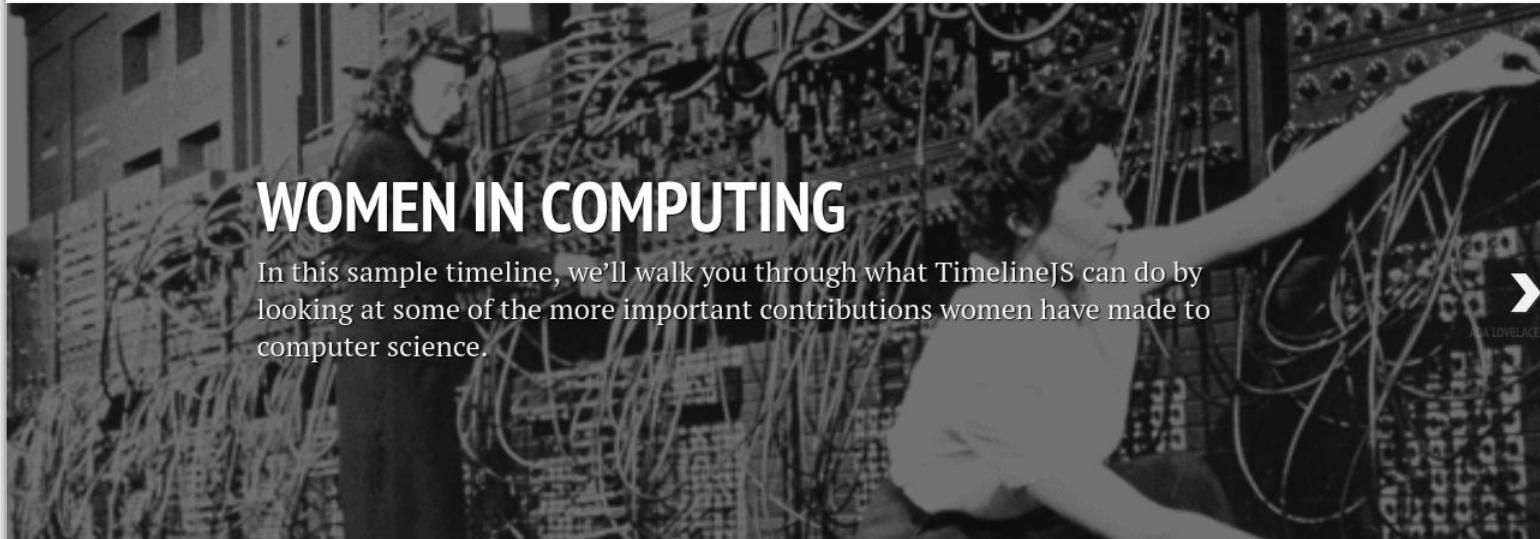
Image Source: <https://www.data-to-viz.com/>

Knight Lab's StoryMap JS



Image Source: <https://storymap.knightlab.com/>

Knight Lab's Timeline JS



WOMEN IN COMPUTING

In this sample timeline, we'll walk you through what TimelineJS can do by looking at some of the more important contributions women have made to computer science.



Image Source: <http://timeline.knightlab.com/>

Knight Lab's Storyline JS

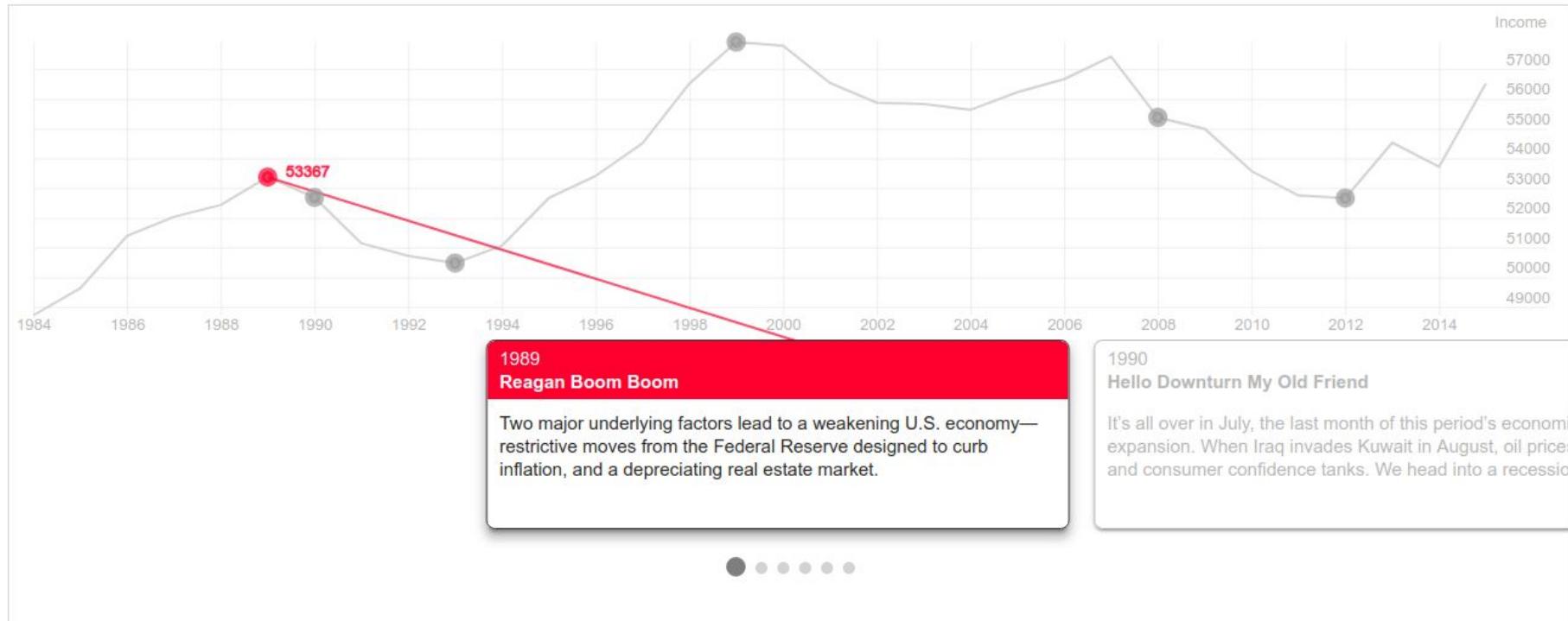


Image Source: <http://storyline.knightlab.com/>

CartoDB

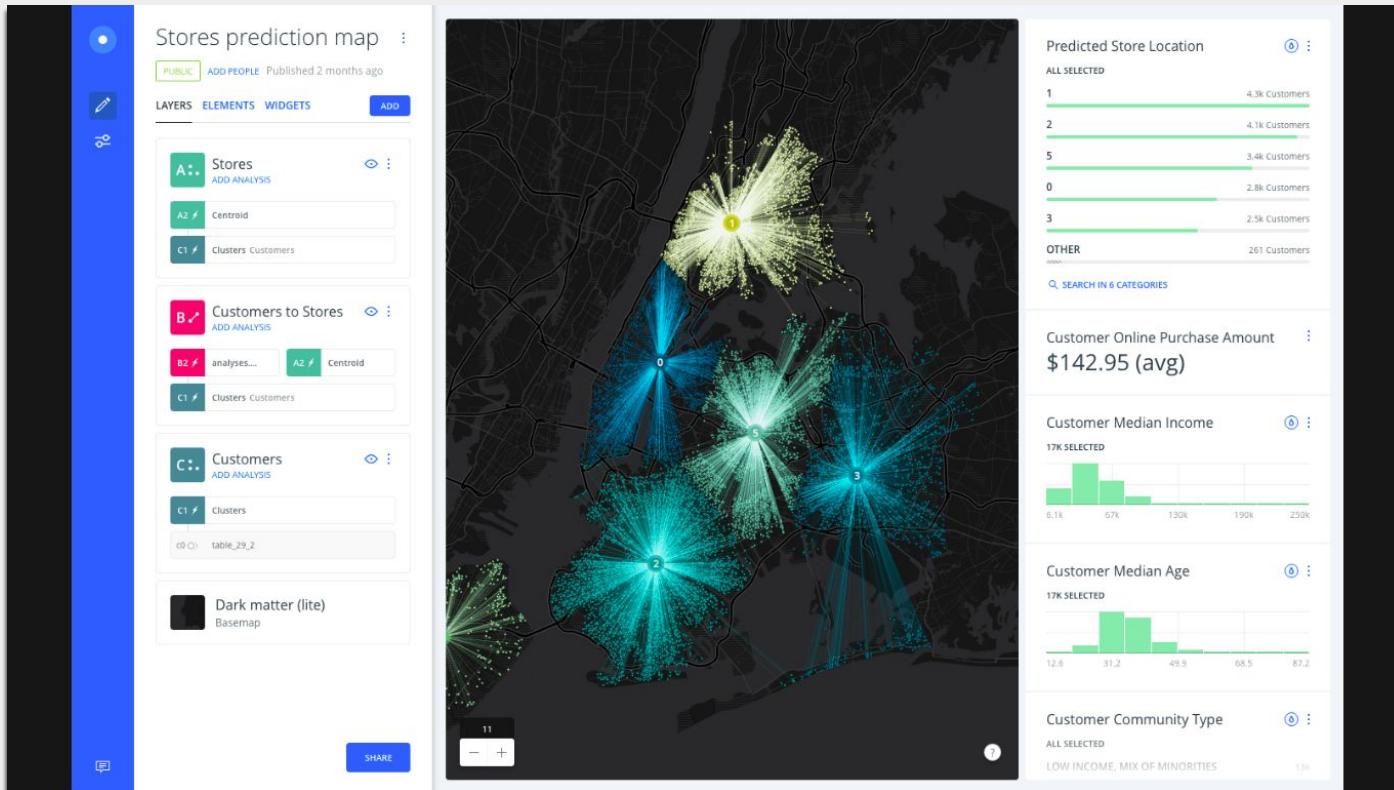


Image Source: <https://github.com/CartoDB/cartodb>

Kepler.gl

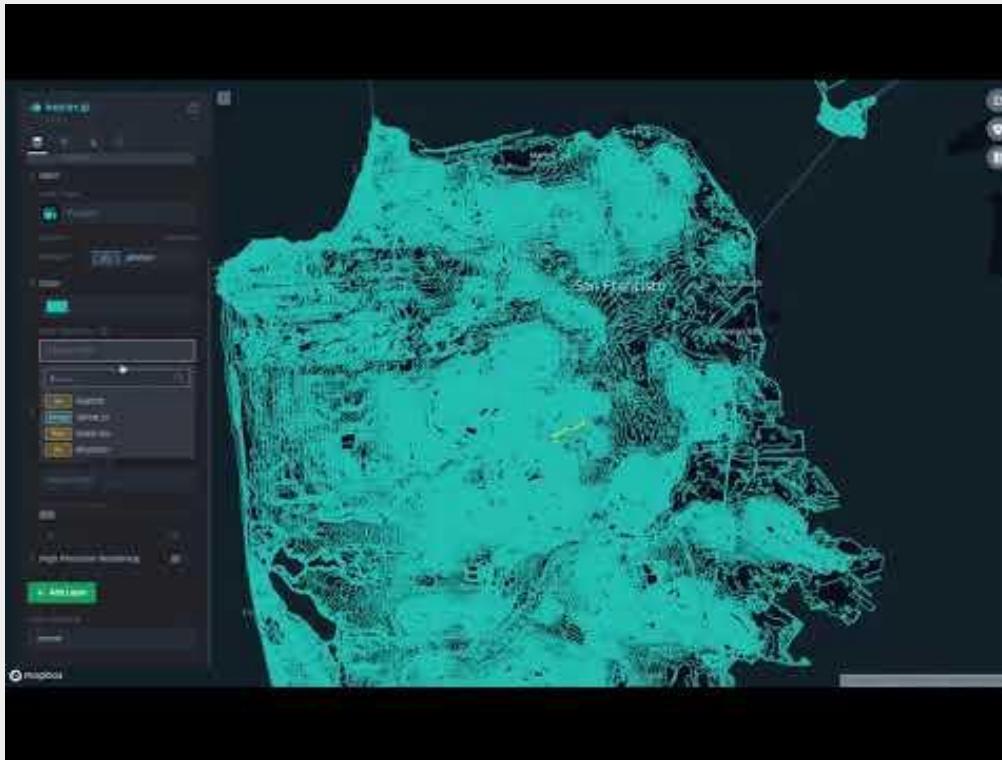


Image Source: <http://kepler.gl>

Deck.gl



Image Source: <https://eng.uber.com/deck-gl-4-0/>

Thanks



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@gggodhwani @CivicDataLab

<https://tinyurl.com/openconlatam-data>