

Data Platform User Manual



DATA PLATFORM

Data platform is the backbone of the India Observatory initiative. It houses social, economic and ecological datasets with meta-data catalogue. It provides contextual insights and enables spatial and temporal analysis for better diagnosis of developmental trends. Further, it helps various stakeholders in taking informed decisions by presenting the data in a user-friendly manner through infographics, visualizations and tools.

Key Features

- Data sets pooled from various secondary sources available from 1990's onwards and for some states from 1960's onwards.
- Easy exploration of social, economic and ecological data prompting the user to analyse through an interdisciplinary lens.
- Compare Maps to create two maps on the same screen in split-screen mode for easy comparison
- Comparative Visualisation between parameters in the same map
- Export map to download maps in PDF format.
- Location At A Glance and GPDP profile provides a quick summary on the socio-economic and ecological parameters
- Examine change through temporal datasets
- Trend analysis to visualize temporal trends in tabular or graphical format.
- Analytics feature to choose parameters, view them in tabular format, perform statistical operations like mean, median, mode etc. on them and visualize them in the form of bar graphs, pie charts etc.
- Multilingual to maximize reach

1.0 Getting Started

1.1 System Requirements

Use Google Chrome Version 70 or above for best performance.

1.2 Home Page

Open Google Chrome and enter Data Platform URL (https://dp.observatory.org.in/content/explore) in the Address bar. The home Page will be displayed as shown in the picture below. It will also display Login and Language selection option.



1.3 Login

• How to login ?

	Enter Username or e-mail address
DATA	as per the account created.
PLATFORM	
Username or e-mail address *	Enter Password
test	
Password *	Click on 'Forget password' to
	request new password as shown in
Forgot password?	section – 1.3.2
Log in	
	Click on <i>Log in</i> Button.
Not a member yet? Register here	
	Click on <i>Register Here</i> to create
Download Location At a Glance app for Android	new account if not registered as
	shown in section - 1.3.1

1.3.1 Create new Account

Enter the required information to create a new account. Mandatory input fields are marked with '*' .

	DATA PLATFORM	
Username *		
E-mail address *		
Confirm e-mail address *		
Name of your organisation *		
Gender *		
Male		
Female		
Transgender		
	Create new account	

1.3.2 Forget Password

Enter Username or e-mail address to request for new password.



1.3.3 Profile

Access the details of your account by clicking on 'Profile' in the upper right corner as shown in the image below.



The following page will be displayed showing 'View' and 'Edit' option.

Home	
test	
View Edit	
Dest's picture	
History	
Member for	
2 years 10 months	

1.3.2 Edit User Account

The following page will be displayed when 'Edit' option is selected.

test View Edit Current password Enter your current password to change the <i>E-mail address</i> or <i>Password.</i> Request new password. E-mail address * testdataplatform@gmail.com A valid e-mail address. All e-mails from the system will be sent to this address. The e-mail address is not made put Password Password strength:	User can change password by entering Current password and then New Password. Email address can also be changed, if needed.
Confirm password To change the current user password, enter the new password in both fields.	
Picture Upload picture Choose File No file chosen Your virtual face or picture. Pictures larger than 1024X1024 pixels will be scaled down.	Profile picture can be uploaded.
LoCale settings Time zone Asia/Koikata: Friday, 12 April, 2019 - 10:50 +0530 Select the desired local time and time zone. Dates and times throughout this site will be displayed using this time	Select applicable Time zone.
Name of your organisation *	
Gender *	
Male	
Female	
 Transgender 	
	ton to apply changes.

2.0 Using Data Platform

After successful User login, Home Page will be displayed wherein India Map is highlighted along with the Tool Bar and Menu Options, as shown in the image below.

India DATA PLATFORM		Select Language • Explore Data Catalog About Profile 🛞 🚦
Собила	- Carlo Summer	充市
📃 Search layer 🗧	S S Ozbekiston Ks Menu	u Options
Ελλάδα İzmir Türkiye	Тикmenistan Точикисто Asgabat	特治 通知者 20日 一部日本市 石家庄 一部市市 石家庄 2月前市
meril meril	المحمد المحم المحمد المحمد	Zoom and Pan tool
Tool	Bar	成熟市: 建灰市 (正文市) 上海市 田市市 報行市 秋空市 (和田市) (温州市
مصر لي	Lightgowo Atomedia and Atomedia and Atomedia and Atomedia	
المنورة	Julas Kiphoning	На кон Снят
السودان مركبة السودان	Murebal Herabada	Swipe control
Kodorosése South Sudan		Measurement Tools
Scal	le bar	Legend Bar
OpenStreetMap contributors Kenya	Longitude and Latitude of curso	or position

2.1 Menu Options

Select Language • Explore Data Catalog		Click to view sub-menu options
齐市	Glossary	
呼和浩	Feedback	
特市 四字市 吕梁市。石1	Download Manual	
兰州市 临汾市。 兰州市 西安市 ^{郑州}	Terms & Conditions	
成都市。 一件十 武汉	Logout	

The functionalities of the above menu options are described below.

Select Language	
English	P2
Bengali	· · · · · · · · · · · · · · · · · · ·
Gujarati	サれ油 ● 唐山市
Hindi	四宁市 吕梁市。石家庄 陈治市。市 济南市
Kannada 😽	兰州市
Malayalam	西安市 郑州市 ◎徐州市 南京市
Marathi	成都市。 重庆市 武汉市 上海
Punjabi	毕节市 铜仁市 长沙市 。南昌市 。温
Sindhi	。。。
Tamil	泉州市。
Telugu	Ha Nõi 广州市 ◎ 海口市
Urdu	Uzunoano C

2.1.1 Select Language

The multilingual feature in the data platform allows the user to select the preferred regional language as shown in the image below:

2.1.2 Explore

This menu option helps user to navigate to the map and map related features. Following are sub-menus of 'Explore' menu option:

2.1.2.1 Map

This option helps the user navigate to the Map on the home page. For example: If the user is on the 'About' page and then needs to navigate back to the homepage, he/she can do so by clicking on the map option in the explore menu.

2.1.2.2 Map Comparison

This option is similar to the 'Compare Layers' option. The user can navigate to the map comparison window by clicking on this option. Refer Section -2.2.5.

2.1.3 Data Catalog

The user can view metadata of all data layers using the data catalog option. Following example shows Metadata of the 'All Marine Richness (per sq km) layer from the biodiversity subcategory under the environment category.

India Decentrationy DATA PLATFORM	Select Language • Explore Data Catalog About Profile 🕦 🚦
Economic Environment Social	Main Data Category
Select data category to get list of it	s subcategories
Economic Environment Social	
Choose Data Subcategory	
Agriculture Development index	
Energy	
Income	
Landuse	
Livestock	
Choose Layers	
Agricultural Land - Other Irrigated, Dist. 2011 (%)	
Agricultural Land - Other Irrigated, State 2011 (%)	
Agricultural Land - Other Irrigated, Sub-Dist. 2011 (%)	
Agricultural Land - with assured Irrigation for Two Crops, Dist. 2	011 (%)
Agricultural Land - with assured Irrigation for Two Crops, State	2011 (%)
Agricultural Land - with assured Irrigation for Two Crops, Sub-D (%)	vist. 2011
Agricultural Land Area, Vill. 2011 (%)	
Crop Data, Dist. 1991-1992 (ha)	

2.1.4 About

The 'About' menu option gives a brief introduction on Data Platform, India Observatory and the Foundation for Ecological Security.

2.1.5 Glossary

The Glossary defines terms used within the Data Platform portal to help the user understand and use the platform efficiently. The following image shows an overview of Glossary.

Glossary	All	0-9	A	В	С	D	E	F	G	Н	I.	J	К	L	М	N	0	Р	Q	R	S	т	U	V	w
Agro-Ecoregi The productio research neec landscapes an Aquifers: Aquifers are u ferences:	in enviro is. (http: id accord	//www.n ingly will	cap.res.ii inform r	n/upload_ nanageme	files/PME ent planni	E_notes/p ing and ac	me6.htm tions.	- Accessed	on 25th	June 2	:015). A	gro-eco	egions h	elps in id	lentifying	types o	f pressur	e exerted	d by agri	cultural	practices	on prote	cted are	as and s	surround
Asner, G. P.,	Scurlock		licke I. ()	2003) Cla	hal synth	esis of le	af area inc	ev obseri	ations: ir	nolicati	ons for a	cologica	Land rem	ote censi	a studie	s. Clobal	Feology	nd Rione	ography	12(3):10	1-205				
Band, L.E., M		· · ·								1		-			-			ind bloge	ograpity,	12(3).13	1 200.				
Belward, A. S													-		-			ensing, 65	5:1013-1	020					
Bonan, G. B.,	Levis S.,	Sitch S.,	Vertenst	ein M., Ol	eson K. W	/. (2003).	A dynamie	global v	egetation	model f	for use w	/ith clim	ate model	s: concep	ts and de	scription	of simula	ited vege	tation dyr	namics. G	lob Char	ge Biol 9	11):1543	-1566.	
Bonan, G. B.,	Oleson I	C. W., Vei	tenstein	M., Levis	S., Zeng)	K. B., & Da	u Y. (2002). The lan	- d surface	climato	logy of t	the com	nunity lar	d model (coupled t	o the NC	AR comm	unity land	i model. J	ournal of	f Climate	15:3123	-3149.		
Bréda, N. J. (2003). Gr	ound-ba	sed meas	urements	of leaf a	rea index:	a review	of method	ds, instru	ments a	nd curre	nt contr	oversies.	ournal of	experime	ental boti	any, 54(39	92):2403-	2417.						
Currie, D.J. (1	1991). En	ergy and	Large-S	cale Patte	rns of An	imal- and	Plant-Spe	cies Rich	ness, The	Americ	an Natur	alist 13	7(1):27-4).											
Fisher, J. B., V	Whittaker	r R. J., & I	Malhi Y. (2011). ET	come ho	me: poter	ntial evapo	transpira	tion in ge	ographi	ical ecolo	ogy. Glol	al Ecolog	y and Biog	geograph	y, 20(1):	1-18.								
Foley, J. A., P 628.	Prentice I.	C., Ram	ankutty M	N., Levis S	., Pollard	D., Sitch	5., Haxelti	ne A. (19	96). An in	tegrate	d biosph	ere mod	el of land	surface p	rocesses	, terrestr	ial carbon	balance,	and vege	tation dy	mamics.	Global Bio	igeochen	n Cycles	10(4):603
Friedl, M. A.,							D., Strah	ler A. H.,	Woodcoo	k C. E.,	Gopal S	., Schne	ider A., C	ooper A.,	Baccini /	A., Gao F	, Schaaf	C. (2002)	. Global	land cove	er mappir	ng from M	IODIS: al	gorithms	and ear
results	. Remote	Sensing	of Enviro	milent, o.																					

2.1.6 Feedback

The feedback option allows the users to send their comments and queries. All the fields marked with the '*' symbol are mandatory.

Feed	oack		
	Leave your	Comments/Query	* Denotes Required Field
	Name:	name	* indicates mandatory field
	Age:	age	
	Email:	email *	
	Address:	country	
	Message:		
			*
	3Y8	Mar a	After entering all the necessary fields
	Type the text:		and Captcha, Click on 'Submit Form'
		Submit Form	

2.1.7 Download Manual

The download manual option enables the user to download the Data Platform Manual.

2.1.8 Terms & Conditions

This option displays the Terms & Conditions of the Data platform.

```
Terms & Conditions
Disclaimer
Data, Analysis, Charts, Graphs & Maps in Data Platform frequently employ data from third parties. Foundation for Ecological Security cannot grant permissions to the original third party data used in these tables,
analysis, charts and maps. In these cases, please contact the third party organizations directly for the necessary permissions.
```

2.2 Tool Bar Menu Options

Hovering over the icons will display the name of the option. For example: 'Select Region'.

	DATA PLATFORM	
sin Cal-	مرجان	ampe -
=	Search layer 🐼 🚷	
1	~ K	
2	ارای کرمانشاه بعقوبه Sele معهان خرم آباد بعداد العراق	ect Region
Click on	this icon to expand menu options as shown in the below	
1		
in the	il contra de la co	
N.	earch layer	
5		
æ	Select Region	
G	Select Region	
~		
\otimes	Add Data Layers	
	Compare Layers	
<u> </u>	Reports	5
		i.
հմ	Analytics	
~	Trend	
Ŧ	Export Map	

2.2.1 Select Region

Through this option, data can be explored for a particular region. It can be explored State wise, District wise, Block wise, Panchayat wise or Village wise as per the requirement. Accordingly the User needs to select 'State, District, Block and Panchayat OR Village.' The following image shows an example of User defined Region to explore map of a Panchayat.

Rajasthan		~		
District				
Bhilwara		~		
Block				
Mandalgarh		~		
Panchayat	←		Specify either Panchayat OR V	ill
Panchayat Mandalgarh (m)	~	Ŧ	Specify either Panchayat OR V	ill
	OR	¥.	Specify either Panchayat OR V	'ill;
	OR	Y	Specify either Panchayat OR V	'ill
Mandalgarh (m)	OR	Y .	Specify either Panchayat OR V	ïll
Mandalgarh (m) Village select village	OR Apply		Specify either Panchayat OR V	

Following image shows Mandalgarh (m) Panchayat map.



2.2.2 Usage of Zoom functions while Exploring Map

Zoom In	+ Click on this button to zoon into the ma	ap.
Zoom Out	Click on this button to zoom out of the	map.
Zoombox In	Click on this button for a rectangle poly	rgon based Zoom in.
Zoombox Out	Click on this button for a rectangle Poly	gon based Zoom out.
Swipe Control	Add two layers. Use the swipe contro	l button to compare the two layers.

2.2.3 Measurement Tools

Click on this tool to view sub menu options.



2.2.3.1 Measure distance

This option helps user measure the distance by adding vertices indicating From and To locations. It reveals the distance between the vertices indicated by the user.

Measure Distance 📃	
Help Click on Map to add the vertices. Double click to end the Measurement. Minimize this box to quit the Measurement	

The following example shows the distance between Jaipur and Kolkata.



2.2.3.2 Measure Area

This feature allows the user to define an area by drawing and measuring its area. The following example shows the area and its measurement.



2.2.4 Add Data Layers



Data layers can be added to the map using this tool. They are broadly categorized into three categories– 'Economic', 'Environment' and 'Social' as shown in the below image.



Click on 'Economic' or 'Environment' or 'Social' category. Select the sub-category and finally the layer from the layer list, as shown in the image below.

		٦
	Add Data Layers -	Sub-categories of Agriculture
	Economic Environment Social	Scroll bar
Add Data Layers -	2011 (%)	
	Agricultural Land - Other Irrigated, State 2011 (%)	Layer filter
Development index Energy	Agricultural Land - Other Irrigated, Sub- Dist. 2011 (%)	Metadata
Income Landuse Livestock	Keisultural Land - with assured Irrigation for Two Crops Dist 2011 (%)	Click on
Livestock Poverty	Add layer to see it on Map	checkbox to add layers

Click on T to filter the data layers according to preference. This will help minimize the list for easy and fast access to the available data.





Click on to view Metadata of the selected data layer.

Economic Environment Social			
Choose Data Subcategory	Data Identification Information		
Agriculture Development index Energy Income Landuse Livestock	Name of the Dataset Theme Keywords Purpose of Creating Data Access Constraints Use Constraints	Irrigated Area - Food Crops, Dist. 2007-2008 (000 ha) Economic Irrigated Area, Food Crops, District, DACNET, 2007-2008 To generate digital database of the dataset As per FES Data Dissemination Policy As per FES Data Dissemination Policy	
Choose Layers	Data Type Contact Information	Vector	Scroll bar to view whole meta- data
Agricultural Land - Other Irrigated. Dist. 2011 (%) Agricultural Land - Other Irrigated. State 2011 (%) Agricultural Land - Other Irrigated, Sub-Dist. 2011 (%) Agricultural Land - with assured Irrigation for Two Crops, Dist. 2011 (%)	Contact Person Organization Mailing Address City/Locality Country Country Contact Email	Chief Data Officer Foundation for Ecological Security Coordination Office, Jahangirpura Anand, Gujarat India	
(%) Agricultural Land - with assured Irrigation for Two Crops, Sub-Dist. 2011 (%)	Coverage		

Select Data layer and then click on - <a>C Add Layer icon as shown below.



The above example shows Data layer 'Population Literate, Vill. 2001(%)' for Mandalgarh block of Rajasthan State, Bhilwara District. The legend on the bottom right corner shows the literacy percentage against the color code displayed in map.

User can overlay multiple data layers and change the opacity level to compare them. Once the data layer is added, following functionalities are available to the user:

Population - Literate, Remove layer	Vill. 2001 (%) C Metadata Opacity Hide / Show layer
Opacity	: Opacity of layers can be increased or decreased with the help of slide bar
Metadata	: Metadata 📵 can be viewed using this option.
Hide / Show layer	: Data layers can be displayed 🧖 or Hidden 💽 using this option.
Remove layer	: Uncheck the box to remove a layer.

2.2.5 Compare Layers



This feature allows the creation of two maps of the same location or different location. It allows the user to compare two parameters, two regions or two time-periods.

For example: A comparative study of literacy in year 2001 and 2011 of a block or change in vegetation index over the years



- □ Left hand side map is referred to as 'Map 1' & right-hand side map is referred to as 'Map 2'.
- Sync Maps On / Off : If the user wants to select different regions in both the maps, then the Sync Maps option needs to be turned Off. If the user wants to select the same regions for both the maps, then the sync maps option needs to be turned on. This function helps user to apply the same changes (e.g. zooming levels, map movement etc.) in both the maps if Sync map is On. If Sync map is off, then the user can apply different changes to both the maps.
- □ Select Region for Map 1 and Map 2:



Similarly, the user can add same or different data Layers in Map 1 and Map 2. There is no need to use Sync Map function while selecting Data layers. Even if Sync Map is On, you can select different data layers for Map 1 and Map 2.

	\$4.60	Unoraji
Chaklarg	× population - li	
Ajarpura Kas	Bhatel	SHT09
NE	Select Region	900 900 900 900
Samariha Sadarapu	a Rungarao 🐼 Add Data Layers	-
Lambhvel SH60	Category	NH151 SH26
	SH188 Social	
Anand	Sub-category	Gimar
b Vichyanagar	SH83 Population	Junagadh Wits
	Layer	5401
Mogri Hadgood	Population - Schedule Tribe, Dist. 2001	
Vedoid	Add layer on 🖉 Map 1 Map 2	9125
Vanskhilla Navis		A Section Section
Nandl Napad	Add	
	Rejupura' Poscha	SH97
NEI	X Search layer	
Samarkha Sadanapua		SH109
	Select Region	La martine in
	-	A PARTICIPAL
SH60	Add Data Layers	- SH26
	~	
Anand	Category	NH151
SHE	Social	5H26
	Sub-category	A Ca.
Hadgood Mogar	Population	Junagadh
		NH151
Vadod	Layer	that
Navii	Population - Schedule Tribe, State 2011	
	Add layer on App 1 App 2	
Napad Ad	Add layer on Map 1 Map 2	SH26 SH30
	Add	
SL		A contraction of the part
A MADDIN CA		

Following is an example showing the comparison of Literacy rate during the year 2001 and 2011 in Anand Block, Gujarat State.

Select Region for both the maps i.e. – Map 1 and Map 2 as shown below: Click on 'Apply' button to load the region in both the maps.

Select Region	-
State	
Gujarat	~
District	
Anand	-
Block	
Anand	
Panchayat	
select panchayat	-
OR	
Village	
select village	-
Select on 🖉 Map 1 🖉 Map 2	

Add data layer in both the Maps as shown below. In this example, Literacy rate of 2001 (village level) is added for Map 1. Literacy percentage of 2011 (village level) is added for Map 2.

Add Data Layers	-	Add Data Layers	-
Category		Category	
Social		Social	~
Sub-category		Sub-category	
Education -		Education	-
Layer		Layer	
Population - Literate, Vill. 2001 -		Population - Literate, Vill. 2011	~
Add layer on 🛛 🗷 Map 1 🔅 Map 2		Add layer on 🔲 Map 1 🗹 Map 2	
Add		Add	
2		3	

Comparison of Literacy percentage is clearly visible in the following image:



The user can zoom In or zoom out of the maps.

2.2.6 Reports

User can access infographic reports through this tool. In order to do that the user needs to Select Region and then view Reports. Reports will be displayed in a new window as shown in the following image:



Currently there are two reports namely - 1] At a Glance and 2] GPDP

At a Glance - Provides a quick summary on the socio-economic and ecological parameters of any chosen state/ district/block in India in an easy to understand info-graphic format. The following example shows the 'At A Glance' Report of Bansra Village.



• **GPDP Report** – The Gram Panchayat Development Planning (GPDP) Profile of a village can be generated using this option. The following example shows GPDP profile of Bansra village. User can click on each category to view the visualizations.



The following example shows the expanded versions of 'Economic Development & Livelihoods' option.



2.2.7 Analytics

The analytics feature provides the option to choose parameters, view them in tabular format, perform statistical operations like mean, median, mode etc. on them and visualize them in the form of bar graphs, pie charts etc.

To run the analytics of his/her choice, the user needs to start by selecting the region by clicking on Refer to section 2.2.1 to see the process of selecting a region.



In the example below, Bihar has been selected as the region.

Click on analytics to view the analytics window as shown below.

	Select Language 💠 Explore Data Catalog About Guided	Tour Profile
WALL A STORAGE STORAGE STORAGE	The second of th	OI (OLAZ
× Search layer	Analytics 2 -	E A BALL
Select Region	Select parameters for analysis Note: Sub-categories and parameters are displayed based on currently selected region type i.e. Explore Cases	· · · · · · · · · · · · · · · · · · ·
Add Data Layers	Filter parameters using sub-categories.	No and
Compare Layers	All - Search:	and the second
Reports	Agriculture	a general
Analytics	Irrigated Area, State 2001	and the second s
	 Irrigated Area, State 2011 	बर्भूव विज्ञान
Trend	Households Owning Land, State 2011	ASST.
gn 🐨 Export Map	 Households Owning No Land, State 2011 	6 Sen Jak 5
	Agricultural Land - with assured Irrigation for Two Crops, State 2011	Martin Martin
	Agricultural Land - Other Irrigated, State 2011	
Start Start	Households Owning Mechanized Agricultural Equipment, State 2011	বজন যি
Kaimur W25	Households Owning Irrigation Equipment, State 2011	
A P	Submit	बनावि विजन
50 km 20 mi © OpenStreetMap contributors	A RANK A RANK	() 89.57872, 26.7225

Start by selecting parameters for analysis, by checking the boxes, as per preference. A maximum of ten parameters can be selected at one point of time.

Parameters can also be filtered by choosing a sub-category from the drop-down menu or using the search bar.

Analytic	s	○ -
Note: Su state/dis	parameters for analysis b-categories and parameters are displayed based on currently selected region type i.e. trict/sub-district/village arameters using sub-categories.	Explore Cases
Educat	ion	
	Education Level - Illiterate, State 2011	
	Education Level - Below Primary, State 2011	
	Education Level - Primary, State 2011	
	Education Level - Middle, State 2011	
	Education Level - Secondary, State 2011	
	Education Level - Higher Secondary, State 2011	
	Education Level - Graduate or Higher, State 2011	
	Education Level - Other, State 2011	
	Submit	

Before running the analytics the user can also view examples of how he/she can use the analytics feature, by clicking on explore cases.

E	xplore Cases				
The data platform offers visualizations of secondary data in the form of maps as well as infographics. It consists of a repository of 1600+ data layers compiled from diverse sources, making it easier to access data that is usually scattered across various platforms. In order to help you take informed decisions, the platform also offers you the option to undertake analysis of your choice by allowing you to visualize raw data in the form of tables, bar graphs, pie charts, maps etc. and also perform a wide range of statistical operations such as mean, median, mode, standard deviation etc., for the geographical location and administrative level of your interest.					
Journa	lists, Researchers and Academicians.				
	CASE 1	CASE 2	CASE 3	CASE 4	
IF YOU'RE LOOKING TO ASSEMBLE SOME BACKGROUND INFORMATION FOR A STORY THAT YOU'RE DOING, THE DATA PLATFORM PROVIDES YOU AN EASY WAY TO DO IT. UPPER PRIMARY EDUCATION IN MADHYA PRADESH REPORT CARD					
	Through a basic reading of literature on middle 'stage' or middle school. It lasts fo universalization of primary education, t makes it essential understand how educa	or three years from grades 6th he pressure on upper primary	to 8th (ages approximately 11 to y education which encompasse	o 14).1 With the increased empha s middle school has increased.	sis on

After choosing the parameters, the user needs to click on submit to view the options of analytics that are present on the platform. In the example below, the layer education level-Illiterate, state 2011 has been chosen.

Analytics			c -
Note: Sub state/disti	parameters for analysis -categories and parameters are displayed based on currently selected region type i.e. rict/sub-district/village rameters using sub-categories.		Explore Cases
		Search:	
Educatio	on		
	Education Level - Illiterate, State 2011		
	Education Level - Below Primary, State 2011		
	Education Level - Primary, State 2011		
	Education Level - Middle, State 2011		
	Education Level - Secondary, State 2011		
	Education Level - Higher Secondary, State 2011		
	Education Level - Graduate or Higher, State 2011		
	Education Level - Other, State 2011		
	Submit		

On clicking submit, the data table for the layer selected gets displayed.

	Mean Median	Mode Min Ma	x Range	Variance Standar	d Deviation
enerate graphs					
Show 10	w.			Search:	
entries				_	
		Education Level	 Illiterate, Sta Irce: SECC 	ate 2011	
state 🔺	district 🔶	Total Population 🜲	Total HH 🌲	Total Illiterates 🍦	Percentage Illiterates
BIHAR	Araria	2960510	595834	1593468	53.8
BIHAR	Arwal	716021	116644	272414	38.0
BIHAR	Aurangabad	2391102	366898	737324	30.8
BIHAR	Banka	2027955	384455	859673	42.3
	Begusarai	2518273	491437	1087521	43.
BIHAR		2601741	468355	1022165	39.2
	Bhagalpur			891328	32.5
BIHAR	Bhagalpur Bhojpur	2737006	419641		
BIHAR BIHAR		2737006 1654596	238210	433909	26.2
BIHAR BIHAR BIHAR	Bhojpur			433909 2098180	54.3

2.2.7.1 Generating Graphs

By clicking on generate graph, the user has the option to visualize the data in the form of a bar-graph, line graph, pie chart or a scatter plot.

Mean	Median	Mode	Min	Max	Range	Variance	Standard Deviation	
Generate graphs								
Select layer for parameter 1		Select						
Select parameter 1		Select						
Add second param	l							
Select label for X-axis		Select						
Select graph type		Select						

In the following example, Education level-illiterate state 2011 has been visualized in the form of a bar graph.

Analytics									
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,									
	Mean	Median	Mode	Min	Max	Range	Variance	Standard Deviation	
Generate graphs									
Select layer for pa			Select Education	Level - I	lliterate, S	State 2011			
			Jelect						
			Selec	t layeı	r and p	aramete	rs to be vi	sualized	
Analytics									-
	Mean	Median	Mode	Min	Max	Range	Variance	Standard Deviation	
Generate graphs							/		
Select layer for pa	arameter 1		Education	Level - III	iterate, St	ate 2011			-
Select parameter	1		/ Select						
Add second para	m		state district						
Select label for X-			Total Pop	ulation					
Select label for X-	axis		Total HH						

Mean	Median	Mode	Min	Max	Range	Variance	Standard Deviation		
enerate graphs									
lect layer for parameter 1		Education	Level - Ill	iterate, St	ate 2011			~	
lect parameter 1		Percentag	e Illiterate	25				~	
dd second param									
lect label for X-axis		/ Select							
lect graph type		state district							
	_	Total Popu	lation			1			
Show 10 -		Total Illite							
entries		Percentag	e liitterat	tes					
		Cal	ot the	lahald		and the g	wareh turna		
		Sele	ect the	label 1	or x axis	and the g	raph type		
		Sele	ect the	label 1	or x axis	and the g	raph type		
alytics		Sele	ect the	label 1	for x axis	and the g	raph type	:	0
-	Median							•	C
alytics Mean	Median	Sele	ect the Min	label 1 Max	or x axis Range	and the g Variance	raph type Standard Deviation		C
Mean enerate graphs	Median	Mode	Min	Max	Range				C
Mean enerate graphs lect layer for parameter 1	Median	Mode	Min Level - Illi	Max iterate, Sta	Range				C
Mean enerate graphs lect layer for parameter 1	Median	Mode	Min Level - Illi	Max iterate, Sta	Range			- - -	C
Mean enerate graphs lect layer for parameter 1 lect parameter 1 dd second param	Median	Mode	Min Level - Illi	Max iterate, Sta	Range				C
alytics Mean enerate graphs lect layer for parameter 1 lect parameter 1 dd second param lect label for X-axis lect graph type	Median	Mode	Min Level - Illi	Max iterate, Sta	Range				C

After selecting the graph type, the graph will automatically get generated.

Mean	Median	Mode	Min	Max	Dange	Variance	Standard Deviation	_
Mean	Median	Mode	Min	Мах	Range	variance	Standard Deviation	1
enerate graphs								
elect layer for parameter 1		Education	Level - Illi	terate, Sta	ate 2011			~
elect parameter 1		Percentage	e Illiterate	s				~
Add second param								
elect label for X-axis		district						-
elect graph type		Bar						-
Education	Level - Illite	rate, State 2	2011					
60 45 30 15 Arai ^a uragu							Sheit Sita Supau	Ed

In order to generate a graph with two parameters, the user needs select two parameters and add a second parameter. To generate the graph, the process described above needs to be followed.

Irrigated Area, State 2001		
Irrigated Area, State 2011		
Generate graphs		
Select layer for parameter 1	Select	~
Select parameter 1	Select	~
Add second param		
Select label for X-axis	district	~
Select graph type	Select	~

A multiple bar graph will be generated. Following is an example of the same.

Mean	Median	Mode	Min	Max	Range	Variance	Standard Deviation	
Generate graphs								
Select layer for parameter 1		Irrigated A	rea, State	2001				-
Select parameter 1		Percentag	e Of Irriga	ted Area				~
Remove second param								
select layer for parameter 2		Irrigated A	rea, State	2011				~
Select parameter 2		Percentag	e Of Irriga	ted Area				~
Select label for X-axis		district						~
Select graph type		Bar						~
-	rea, State 20	01 / Irrigate	ed Area, S	State 201	1			
	ratia unia		paaran	amaq.			jena Gaya Jamui	Irri

2.2.7.2 Statistical analysis

Start by selecting parameters to analyse.

Analy	rtics	c -
Note: state/	ect parameters for analysis :: Sub-categories and parameters are displayed lased on currently selected region type i.e. //district/sub-district/village er parameters using sub-categories.	Explore Cases
All	Search:	
Agri	riculture	
	Irrigated Area, State 2001	
	Irrigated Area, State 2011	
	Households Owning Land, State 2011	
	Households Owning No Land, State 2011	
	Agricultural Land - with assured Irrigation for Two Crops, State 2011	
	Agricultural Land - Other Irrigated, State 2011	
	Households Owning Mechanized Agricultural Equipment, State 2011	
	Households Owning Irrigation Equipment, State 2011	
	Submit	
	•	

Click on submit to view the option available for statistical analysis.

On clicking submit, the data table of the selected parameters will get displayed.

				9
	Mean Median	Mode Min Ma	x Range Variance	Standard Deviation
Show 10 entries	Ŧ	ļ	s	earch:
		-	rea, State 2001	
			Census of India	
state 🔺				
	district 🔶	Irrigated Area 🖕	Total Geographic Area 🍦	Percentage Of Irrigated Area 🍦
Bihar	district 🏺 Pashchim Champaran	Irrigated Area 🌲	Total Geographic Area 435474	Percentage Of Irrigated Area
	*	- ,	· ·	
Bihar	Pashchim Champaran	170083.35	435474	39
Bihar Bihar	Pashchim Champaran Purba Champaran	170083.35 165163.57	435474 390178	35
Bihar Bihar Bihar	Pashchim Champaran Purba Champaran Sheohar	170083.35 165163.57 14777.4	435474 390178 43362	39 42 34
Bihar Bihar Bihar Bihar	Pashchim Champaran Purba Champaran Sheohar Sitamarhi	170083.35 165163.57 14777.4 66407.85	435474 390178 43362 214771	39 42 34 3
Bihar Bihar Bihar Bihar Bihar	Pashchim Champaran Purba Champaran Sheohar Sitamarhi Madhubani	170083.35 165163.57 14777.4 66407.85 97642.81	435474 390178 43362 214771 346122	39 42 34 34 34 32 26
Bihar Bihar Bihar Bihar Bihar Bihar	Pashchim Champaran Purba Champaran Sheohar Sitamarhi Madhubani Supaul	170083.35 165163.57 14777.4 66407.85 97642.81 73009.43	435474 390178 43362 214771 346122 239625	39 42 34 34 32 26 30
Bihar Bihar Bihar Bihar Bihar Bihar Bihar	Pashchim Champaran Purba Champaran Sheohar Sitamarhi Madhubani Supaul Araria	170083.35 165163.57 14777.4 66407.85 97642.81 73009.43 105808.24	435474 390178 43362 214771 346122 239625 273839	39 42 34 34 34 35 36 36 35 35

The user can then choose the statistical operation that he/she wants to undertake.

Analytics				V				
	Mean	Median	Mode	Min	Max	Range	Variance	Standard Deviation

After selecting the statistical operation to be undertaken, the user needs to select the data table from the list of data tables generated for the parameters he/she selected in the first step, as shown below. The example below illustrates the calculation of mean of irrigated area state 2001 and irrigated area state 2011.

✓ Select tab				
Irrigated A	ea, State 2001 S	ource: Census	of India	

After selecting the table, the user needs to select the field from that table, to be taken into consideration while calculating the mean.

Select field state district Irrigated Area Percentage Of Irrigated Area elect data table Irrigated Area, State 2001 Source: Census of India elect field name Irrigated Area Values: 170083.35, 165163.57, 14777.4, 66407.85, 97642.81, 73009.43, 105808.24, 37534.75, 125295.96, 95516.33, 86032.48, 55317.98, 77349.41, 113592.63, 115858.55, 113207.86, 120383.87, 65712.99, 107061.4, 83654.64, 64161.1, 83718.85, 117759.26, 32093.15, 44404.08, 29904.86, 136651.3, 170799.86, 136586.1, 107788.91, 135181.8, 237249.28, 109889.46, 202603.41, 258312.97, 95248.5, 57603.04, 170083.35, 165163.57, 14777.4, 66407.85, 97642.81, 73009.43, 105808.24, 37534.75, 125295.96, 95516.33, 86032.48, 55317.98, 77349.41, 113592.63, 115858.55, 113207.86, 120383.87, 65712.99, 107061.4, 83654.64, 64161.1, 83718.85, 117759.26, 32093.15, 44404.08, 29904.86, 136651.3, 170799.86, 136586.1, 107788.91, 135181.8, 237249.28, 109889.46, 202603.41, 258312.97, 95248.5, 57603.04, 170083.35, 165163.57, 14777.4, 66407.85, 97642.81, 73009.43, 105808.24, 37534.75, 125295.96, 95516.33, 86032.48, 55317.98, 77349.41, 113592.63, 115858.55, 113207.86, 120383.87, 65712.99, 107061.4, 83654.64, 64161.1, 83718.85, 117759.26, 32093.15, 44404.08, 29904.86, 136651.3, 170799.86		
state district Trigated Area Percentage Of Irrigated Area Percentage Of Ir	elect field name	
district Trigated Area Percentage Of Irrigated Area elect data table Irrigated Area, State 2001 Source: Census of India elect field name Irrigated Area Values: 170083.35, 165163.57, 14777.4, 66407.85, 97642.81, 73009.43, 105808.24, 37534.75, 125295.96, 95516.33, 86032.48, 55317.98, 77349.41, 113592.63, 115858.55, 113207.86, 120383.87, 65712.99, 107061.4, 83654.64, 64161.1, 83718.85, 117759.26, 32093.15, 44404.08, 29904.86, 136651.3, 170799.86, 136586.1, 107788.91, 135181.8, 237249.28, 109889.46, 202603.41, 258312.97, 95248.5, 57603.04, 170083.35, 165163.57, 14777.4, 66407.85, 97642.81, 73009.43, 105808.24, 37534.75, 125295.96, 95516.33, 86032.48, 55317.98, 77349.41, 113592.63, 115858.55, 113207.86, 120383.87, 65712.99, 107061.4, 83654.64, 64161.1, 83718.85, 117759.26, 32093.15, 44404.08, 29904.86, 136651.3, 170799.86, 136586.1, 107788.91, 135181.8, 237249.28, 109889.46, 202603.41, 258312.97, 95248.5, 57603.04, 170083.35, 165163.57, 14777.4, 66407.85, 97642.81, 73009.43, 105808.24, 37534.75, 125295.96, 95516.33, 86032.48, 55317.98, 77349.41, 113592.63, 115858.55, 113207.86, 120383.87, 65712.99, 107061.4, 83654.64, 641611, 83718.85, 117759.26, 32093.15, 44404.08, 29904.86, 136651.3, 170799.86<136556.1, 107788.91, 135181.8, 237249.28, 109889.46, 202603.41, 258312.97, 95248.5, 57603.04		
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elect data table Irrigated Area, State 2001 Source: Census of India elect field name Irrigated Area Values: 170083.35, 165163.57, 14777.4, 66407.85, 97642.81, 73009.43, 105808.24, 37534.75, 125295.96, 95516.33, 86032.48, 55317.98, 77349.41, 113592.63, 115858.55, 113207.86, 120383.87, 65712.99, 107061.4, 83654.64, 64161.1, 83718.85, 117759.26, 32093.15, 44404.08, 29904.86, 136651.3, 170799.86, 136586.1, 107788.91, 135181.8, 237249.28, 109889.46, 202603.41, 258312.97, 95248.5, 57603.04, 170083.35, 165163.57, 14777.4, 66407.85, 97642.81, 73009.43, 105808.24, 37534.75, 125295.96, 95516.33, 86032.48, 55317.98, 77349.41, 113592.63, 115858.55, 113207.86, 120383.87, 65712.99, 107061.4, 83654.64, 641611, 83718.85, 117759.26, 32093.15, 44404.08, 29904.86, 136651.3, 170799.86 136586.1, 107788.91, 135181.8, 237249.28, 109889.46, 202603.41, 258312.97, 95248.5, 57603.04		
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Irrigated Area, State 2001 Source: Census of India elect field name Irrigated Area Values: 170083.35, 165163.57, 14777.4, 66407.85, 97642.81, 73009.43, 105808.24, 37534.75, 125295.96, 95516.33, 86032.48, 55317.98, 77349.41, 113592.63, 115858.55, 113207.86, 120383.87, 65712.99, 107061.4, 83654.64, 64161.1, 83718.85, 117759.26, 32093.15, 44404.08, 29904.86, 136651.3, 170799.86, 136586.1, 107788.91, 135181.8, 237249.28, 109889.46, 202603.41, 258312.97, 95248.5, 57603.04, 170083.35, 165163.57, 14777.4, 66407.85, 97642.81, 73009.43, 105808.24, 37534.75, 125295.96, 95516.33, 86032.48, 55317.98, 77349.41, 113592.63, 115858.55, 113207.86, 120383.87, 65712.99, 107061.4, 83654.64, 64161.1, 83718.85, 117759.26, 32093.15, 44404.08, 29904.86, 136651.3, 170799.86, 136586.1, 107788.91, 135181.8, 237249.28, 109889.46, 202603.41, 258312.97, 95248.5, 57603.04		
Irrigated Area, State 2001 Source: Census of India elect field name Irrigated Area Values: 170083.35, 165163.57, 14777.4, 66407.85, 97642.81, 73009.43, 105808.24, 37534.75, 125295.96, 95516.33, 86032.48, 55317.98, 77349.41, 113592.63, 115858.55, 113207.86, 120383.87, 65712.99, 107061.4, 83654.64, 64161.1, 83718.85, 117759.26, 32093.15, 44404.08, 29904.86, 136651.3, 170799.86, 136586.1, 107788.91, 135181.8, 237249.28, 109889.46, 202603.41, 258312.97, 95248.5, 57603.04, 170083.35, 165163.57, 14777.4, 66407.85, 97642.81, 73009.43, 105808.24, 37534.75, 125295.96, 95516.33, 86032.48, 55317.98, 77349.41, 113592.63, 115858.55, 113207.86, 120383.87, 65712.99, 107061.4, 83654.64, 64161.1, 83718.85, 117759.26, 32093.15, 44404.08, 29904.86, 136651.3, 170799.86, 136586.1, 107788.91, 135181.8, 237249.28, 109889.46, 202603.41, 258312.97, 95248.5, 57603.04		
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57603.04	37534.75, 125295.96, 95516.33, 86032.48, 5 113207.86, 120383.87, 65712.99, 107061.4, 8 44404.08, 29904.86, 136651.3, 170799.86, 1 109889.46, 202603.41, 258312.97, 95248.5, 66407.85, 97642.81, 73009.43, 105808.24, 3	3654.64, 64161.1, 83718.85, 117759.26, 32093.15, 36586.1, 107788.91, 135181.8, 237249.28, 57603.04, 170083.35, 165163.57, 14777.4, 37534.75, 125295.96, 95516.33, 86032.48,
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Reset Value	37534.75, 125295.96, 95516.33, 86032.48, 5 113207.86, 120383.87, 65712.99, 107061.4, 8 44404.08, 29904.86, 136651.3, 170799.86, 1 109889.46, 202603.41, 258312.97, 95248.5, 66407.85, 97642.81, 73009.43, 105808.24, 3 55317.98, 77349.41, 113592.63, 115858.55, 11 83654.64, 64161.1, 83718.85, 117759.26, 320	3654.64, 64161.1, 83718.85, 117759.26, 32093.15, 36586.1, 107788.91, 135181.8, 237249.28, 57603.04, 170083.35, 165163.57, 14777.4, 37534.75, 125295.96, 95516.33, 86032.48, 3207.86, 120383.87, 65712.99, 107061.4, 93.15, 44404.08, 29904.86, 136651.3, 170799.86,
	37534.75, 125295.96, 95516.33, 86032.48, 5 113207.86, 120383.87, 65712.99, 107061.4, 8 44404.08, 29904.86, 136651.3, 170799.86, 1 109889.46, 202603.41, 258312.97, 95248.5, 66407.85, 97642.81, 73009.43, 105808.24, 3 55317.98, 77349.41, 113592.63, 115858.55, 11 83654.64, 64161.1, 83718.85, 117759.26, 320 136586.1, 107788.91, 135181.8, 237249.28, 10	3654.64, 64161.1, 83718.85, 117759.26, 32093.15, 36586.1, 107788.91, 135181.8, 237249.28, 57603.04, 170083.35, 165163.57, 14777.4, 37534.75, 125295.96, 95516.33, 86032.48, 3207.86, 120383.87, 65712.99, 107061.4, 93.15, 44404.08, 29904.86, 136651.3, 170799.86, 9889.46, 202603.41, 258312.97, 95248.5,
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To add the values from the data table of the other parameters selected, select the other data table and field as shown below.



After adding all the values click on submit to generate the analysed value (mean in the case of this example)

rrigated Area, State 2011 Source: Census of India 🚽			
elect field name			
igated Area	~		
Values: 170083.35, 165163.57, 14777.4, 66407.85, 97642.81, 73009 (7534.75, 125295.96, 95516.33, 86032.48, 55317.98, 77349.41, 11359) 13207.86, 120383.87, 65712.99, 107061.4, 83654.64, 64161.1, 83718.8 (4404.08, 29904.86, 136651.3, 170799.86, 136586.1, 107788.91, 1351 09889.46, 202603.41, 258312.97, 95248.5, 57603.04, 170083.35, 16 56407.85, 97642.81, 73009.43, 105808.24, 37534.75, 125295.96, 95 5317.98, 77349.41, 113592.63, 115858.55, 113207.86, 120383.87, 657 83654.64, 64161.1, 83718.85, 117759.26, 32093.15, 44404.08, 29904. 36586.1, 107788.91, 135181.8, 237249.28, 109889.46, 202603.41, 258 57603.04, 115735.680000, 38783.0100000, 177832.420000, 147178. 98532.7100000, 131327.440000, 51303.4900000, 82284.7500000, 25798.4500000, 45164.1400000, 51303.4900000, 82284.7500000, 1447.4500000, 45164.1400000, 51303.4900000, 240995.890000, 49784.940000, 133214.860000, 35500.2200000, 20269.5300000, 29768.5000000, 87429.76000000, 85919.6700000	2.63, 115858.55, 85, 117759.26, 32093.15, 81.8, 237249.28, 55163.57, 14777.4, 516.33, 86032.48, 12.99, 107061.4, .86, 136651.3, 170799.86, 8312.97, 95248.5, 720000, 95119.7500000, 214494.040000, 113484.780000, 84894.450000, 63989.0900000,		

On clicking submit, the mean will be generated as shown above.

Following the same steps, the user can generate median, mode, minimum value, maximum value, range and standard deviation.

The user can calculate mean median, mode, minimum value, maximum value, range and standard deviation for a maximum of ten parameters. In order to do that, the user will have to select the data tables multiple times to add all the values that he/she needs to analyse.

2.2.8 Trend

The trend analysis feature allows the user to visualize temporal trends in tabular or graphical format.

Start by selecting parameters to be visualized and click on submit.	
Trend Analysis	<mark>0</mark> -
Select parameters for trend Note: Sub-categories and parameters are displayed based on currently selected region type i.e. state/district/sub- district/village Filter parameters using sub-categories	
All Show/Modify selection Search:	
Agriculture	
Irrigated Area - All Sources in hectares (Census) (Available Years: 1991, 2001, 2011)	
Unirrigated Land Area in hectares (Census) (Available Years: 1991, 2001, 2011)	
Education	
Illiterate Population (Available Years: 1991, 2001, 2011)	
Illiterate Population - Female (Available Years: 1991, 2001, 2011)	
Illiterate Population - Male (Available Years: 1991, 2001, 2011)	
Submit	

On clicking submit, the data table for the parameter or parameters selected gets displayed.

	Search:		w 10 👻
in hectares - All Sources	Irrigated Area in hectare	State 👙	year 🔺
425149		Bihar	1991
		Bihar	2001
3909367.4			
3909367.4 4128898.7500		Bihar	2011





After clicking on continue, the graph will automatically get generated.

Similarly, a multiple bar graph or line graph can be generated by selecting more than one parameters.

Trend Analysis Graph	-
Show/Hide Filters	
Select Graph Type: Column Bar	
Select Parameters ✓ Illiterate Population - Male □ Illiterate Population ✓ Illiterate Population - Female 	
Select Years	
☑ 1991 ☑ 2001 ☑ 2011	



2.2.9 Export Map



Export Map will generate PDF file of the selected region as shown below.





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