BROOKINGS INDIA

QUALITY, INDEPENDENCE, IMPACT

Brookings India Health Monitor Democratizing Health in India

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Common Platform

- Real Time Data
- Research Papers, policy briefs, state reports
- Analytics Interactive maps, Indexes (real time)

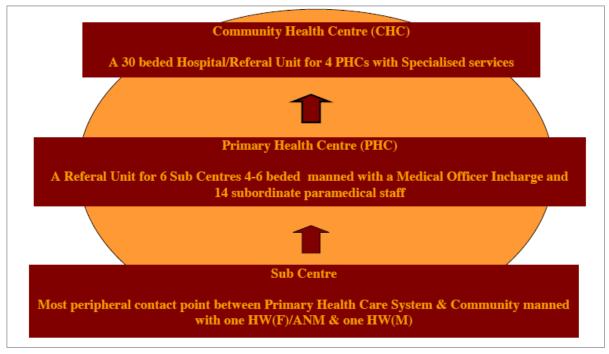
Public Data

- HMIS and RHS (MoHFW)
- SRS (Census of India)
- NFHS (IIPS)
- NSSO (CSO)

Focus areas

- Public Health Infrastructure
- Maternal Health
- Child Health
- Communicable Diseases
- Non-communicable Diseases
- Mental Health

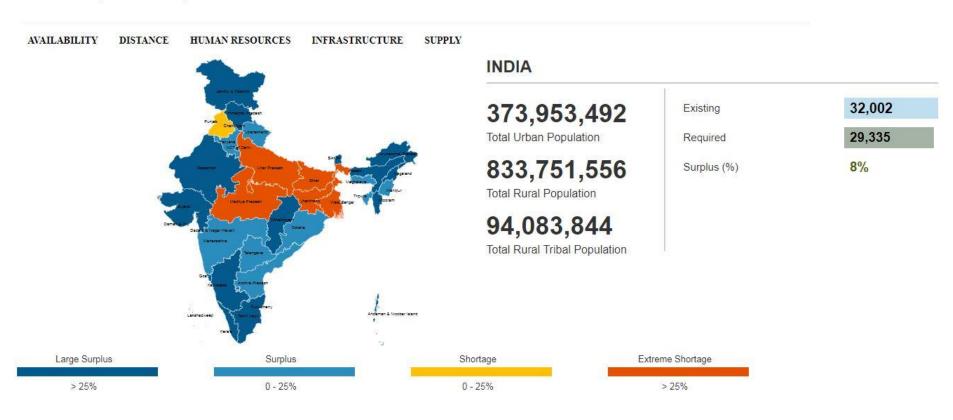
1. Public Health Infrastructure



Population Norms		
Plain Area	Hilly/Tribal/Difficult Area	
5000	3000	
30,000	20,000	
1,20,000	80,000	
	Plain Area 5000 30,000	

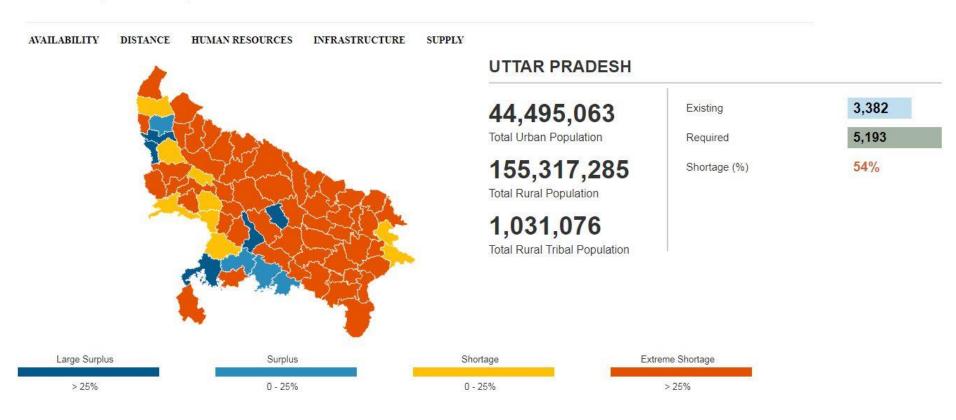
Infrastructure Quantity: E.g. Availability of PHCs

Availability of Primary Health Centres



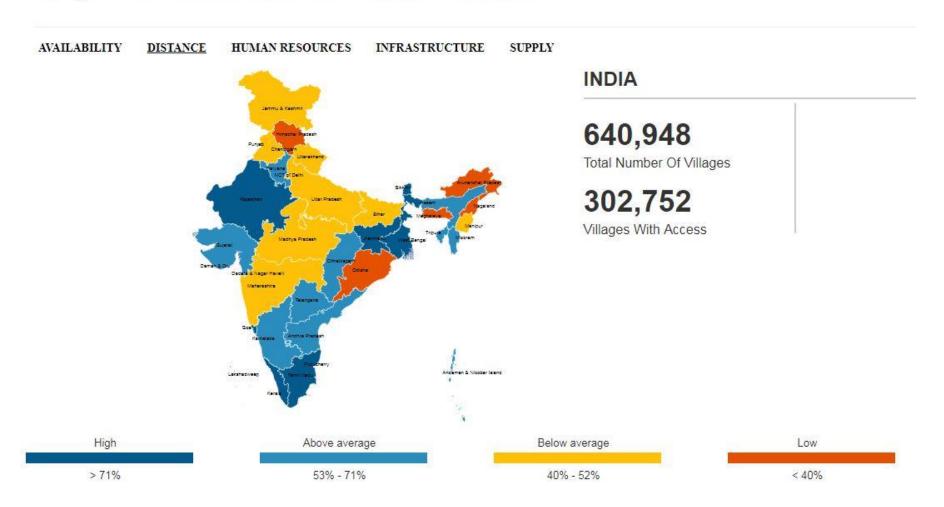
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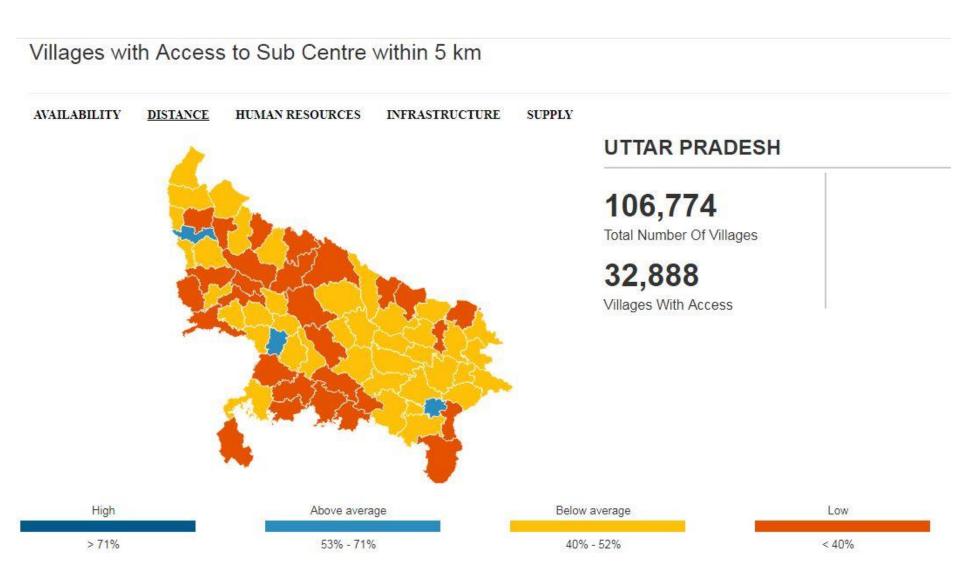


Infrastructure Quantity: E.g. Distance to Sub Centre

Villages with Access to Sub Centre within 5 km: INDIA



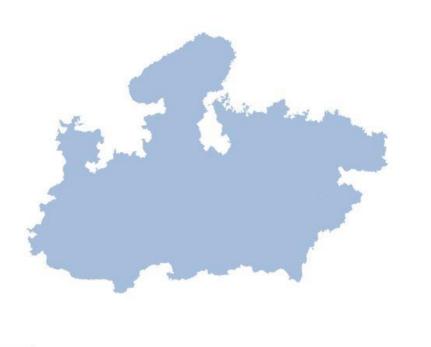
Infrastructure Quantity: E.g. Distance to Sub Centre



Infrastructure Quality: E.g. Infrastructure of CHC

Public Health Infrastructure Quality for Community Health Centre: Madhya Pradesh

AVAILABILITY DISTANCE HUMAN RESOURCES <u>INFRASTRUCTURE</u> SUPPLY



Infrastructure

Shortage in Community Health Centre	
Functioning X-Ray Machines	80.5%
Quarters for Specialits Doctors	34.4%
Specialist Doctors Living in Quarters	63.8%
Referal Transport Available	0.0%
Functioning Labour Rooms	0.0%
New Born Care Corners	3.3%
at least 30 Beds	0.0%
Functional Operational Theatres	6.3%
Functional Labs	3.3%
Surplus	Shortage



Infrastructure Quality: E.g. Human Resources in CHCs

Public Health Infrastructure Quality for Community Health Centre: Madhya Pradesh



Infrastructure Quality: E.g. Supplies at CHCs

Public Health Infrastructure Quality for Community Health Centre: Madhya Pradesh

AVAILABILITY DISTANCE HUMAN RESOURCES INFRASTRUCTURE SUPPLY Supply Shortage in Community Health Centre Allopathic Drugs for Common Ailments 0.0% 33.2% AYUSH Drugs for Common Ailments Surplus Shortage

Health Infrastructure Index: Big States

	Quantity Index	Quality Index	Infrastructure Index	Ranking	
Jammu & Kashmir	4.28	2.10	8.99	1	
Chhattisgarh	3.86	2.09	8.08	2	
Gujarat	3.04	2.29	6.95	3	
Karnataka	2.98	2.31	6.88	4	
Rajasthan	3.23	1.89	6.08	5	
Uttarakhand	3.38	1.78	6.02	6	
Kerala	3.10	1.91	5.94	7	
Delhi	4.14	1.41	5.84	8	
Assam	3.04	1.88	5.70	9	
Tamil Nadu	2.41	2.34	5.62	10	
Punjab	2.22	2.38	5.29	11	
Andhra Pradesh	2.29	2.30	5.27	12	
Maharashtra	1.93	2.55	4.92	13	
Telangana	2.06	2.37	4.87	14	
Madhya Pradesh	2.29	2.13	4.87	15	
Haryana	2.03	2.18	4.41	16	
Odisha	2.32	1.84	4.28	17	
West Bengal	1.96	1.86	3.65	18	
Uttar Pradesh	1.92	1.79	3.44	19	
Jharkhand	2.15	1.51	3.25	20	
Bihar	1.62	1.59	2.58	21	

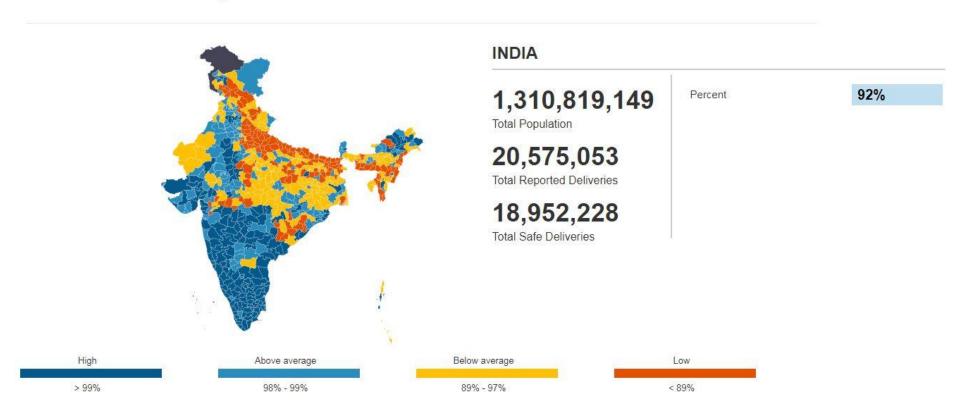
 $Public\ Health\ Infrastructure\ Index = Quantity\ Index * Quality\ Index$

Health Infrastructure Index: Small States

	Quantity Index	Quality Index	Infrastructure Index	Ranking
Mizoram	6.41	2.61	16.73	1
Sikkim	5.12	2.35	12.03	2
Himachal Pradesh	5.80	1.89	10.96	3
Arunachal Pradesh	6.96	1.34	9.33	4
Nagaland	4.26	1.96	8.34	5
Meghalaya	3.77	2.00	7.54	6
Tripura	3.90	1.85	7.21	7
Manipur	3.10	2.05	6.37	8
Goa	2.34	2.23	5.23	9

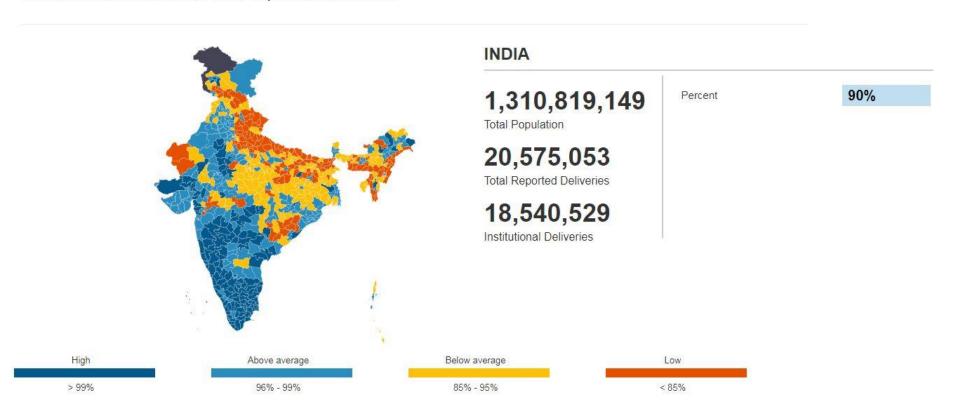
2. Maternal Health: E.g. safe deliveries

Safe deliveries to total reported deliveries : INDIA



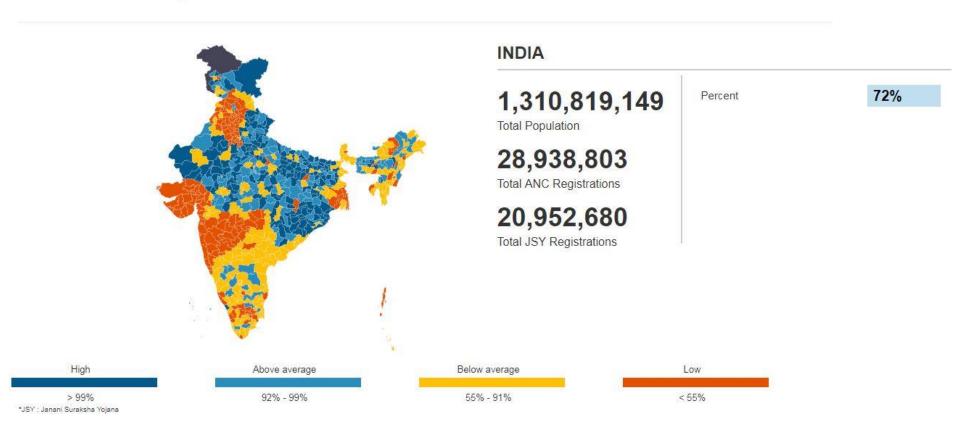
Maternal Health: E.g. institutional deliveries

Institutional deliveries to total reported deliveries



Maternal Health: E.g. JSY cases





3. Causes of Death in India

Region	Cause of Mortality (Male)	(%)	Cause of Mortality (Female)	(%)
All-India	Cardiovascular diseases	23.9	Cardiovascular diseases	20
	III-defined	8.6	III-defined	13.3
	Respiratory diseases	8.1	Respiratory diseases	7.6
Uttar Pradesh	Cardiovascular diseases	12.3	III-defined	14.4
	III-defined	11.3	Diarrhoeal diseases	9.1
	Respiratory diseases	11.3	Cardiovascular diseases	8.6
Uttarakhand	Cardiovascular diseases	20.4	Respiratory diseases	15.4
	Respiratory diseases	16	Cardiovascular diseases	14.6
	Tuberculosis	6.6	III-defined	7.4
Kerala	Cardiovascular diseases	35.4	Cardiovascular diseases	34.9
	Malignant & other Neoplasms	12	III-defined	17.3
	Respiratory diseases	9	Malignant & other Neoplasms	11.1

^{*}Ill-defined/ All other symptoms, signs and abnormal clinical and laboratory findings

Research papers

• "Missing Female Patients: An Analysis of Gender Ratios from Tertiary Care in India"

Deepak Agarwal, Randeep Guleria, Mudit Kapoor, Shamika Ravi and Ambuj Roy (using AIIMS Data)

"Restructuring MCI and Medical Education in India"
 Shamika Ravi and Jaclyn Williams

• "Health and Morbidity in India: 2004-2014" Shamika Ravi, Rahul Ahluwalia and Sofi Bergkvist

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