Urbanisation in India Challenges of Equity, Crisis Managment & Sustainability

Amitabh Kundu

SPECIAL FOUNDATION COURSE

AT

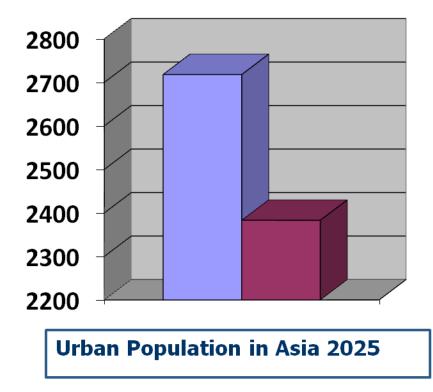
DR. MARRI CHANNA REDDY HUMAN RESOURCE DEVELOPMENT INSTITUTE OF TELANGANA The 3rd March 2021

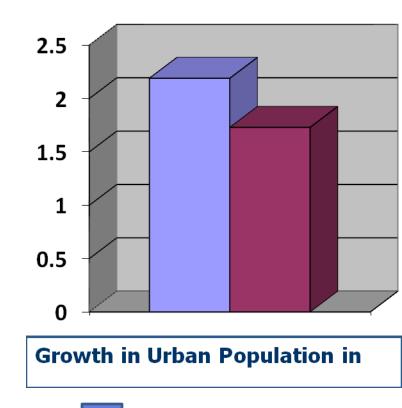
Would Urbanisation of Future be Equitable?

- Equitable cities permit migration of poor resulting in high demographic growth
- Migrants have access to employment and amenities
- Equitable urbanisation imply peripheries are included within city limits and
- Emergence of a large number of new census and statutory towns

Equitable Urbanisation would generally imply rapid urban growth

Projected Urban Population for Asia in 2025 and its Growth Rate during 2025-30 as given in World Urbanization Prospects





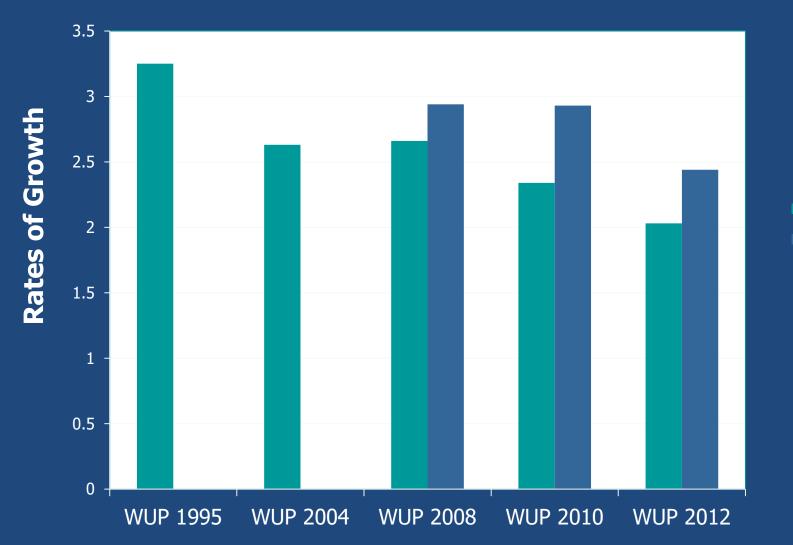


WUP Revision 1994



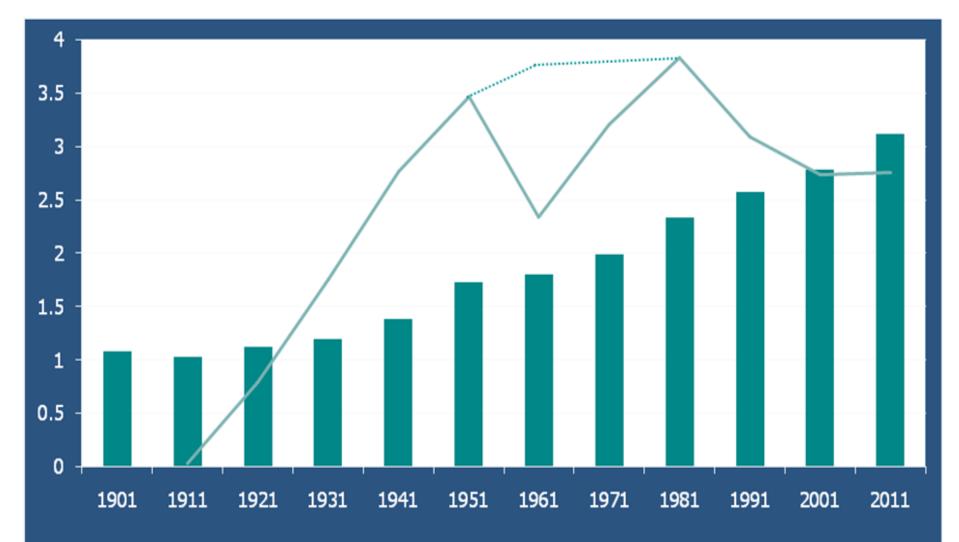
WUP Revision 2018

Growth Rates of Urban Population in India as Projected in World Urbanisation Prospects (WUP)



2025-30 2045-50

Per cent Urban Population and Urban Growth Rates 1901-11



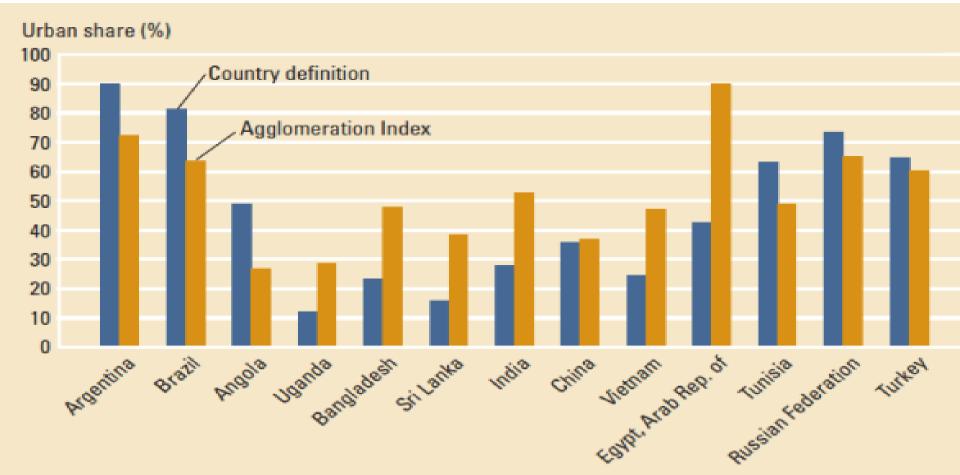
Percent urban to total population

-----Annual. expn. growth of urban pop.

Percentage of Urban Population from UNPD and Agglomeration Index of the World Bank (WDR 2009) in Asian Countries

Country	National Censu	s Agglome	ration Index
	UNPD (WUP2011	L) World Ba	nk WDR 2009
Banglade	esh 23	.2	48.0
India	28	.7	52.4
Pakistan	33	.2	53.6
Sri Lanka	n 15	.7	38.2
China	36	5.0	37.0

Satellite data based Agglomeration Index for developing countries from WDR 2009



Sources: Chomitz, Buys, and Thomas 2005; Nelson 2008; Satterthwaite 2007; United Nations 2006c. a. The GRUMP human settlements database was developed by the Center for International Earth Science Information Network (CIESIN) at Columbia University (http://sedac.ciesin. columbia.edu/gpw/index.jsp). b. LandScan was developed by Oak Ridge National Laboratory (http://www.ornl.gov/sci/landscan/).

Percentage of migrants (POLR) in the population as per decennial censuses

Source: Compiled from Census tables on Migration. Include estimated figures of J&K an Assam where applicable

	Census years					
	1971	1981	1991	2001	2011	
Total	29.1	30.3	27.4	30.1	37.5	
Male	17.5	17.2	14.7	17.0	22.6	
Female	41.7	44.3	41.2	44.6	53.2	

Total Net Inter-State Migration for India (Economic Survey 2017)

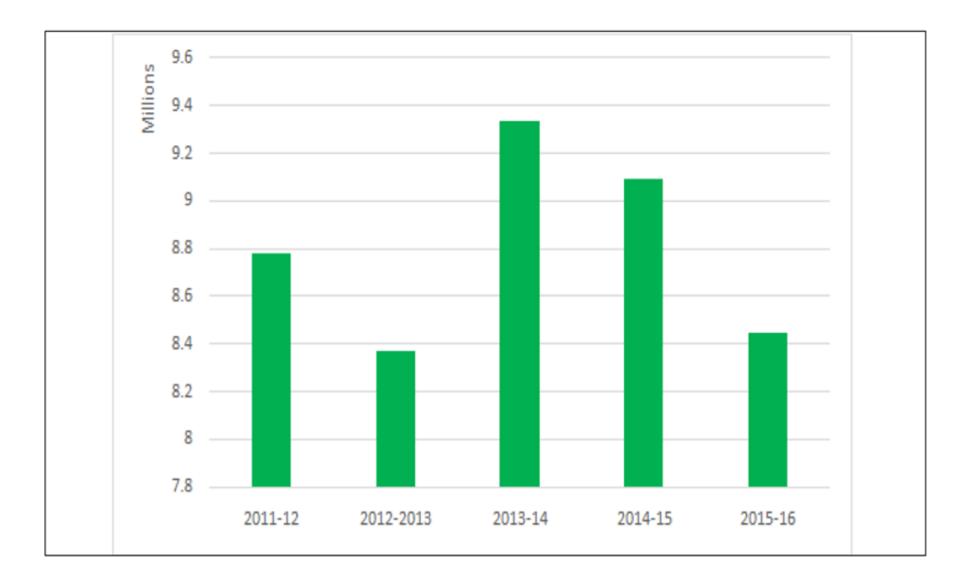


Table 3: Decomposition of Total Incremental Urban Population into Components

	Percentage Distributior			
	1991-01	2001-2011		
Total increase (in millions)	67.7	90.2		
(a) Natural increase on base year pop and on inter-censal migrants	59.4	48.4		
(b) Population of new towns less declassified towns	6.2	31.8		
(c) Net RU migration	21.1	15.5		
(d) Increase due to expansion in U Area and merging of towns	13.0	4.3		

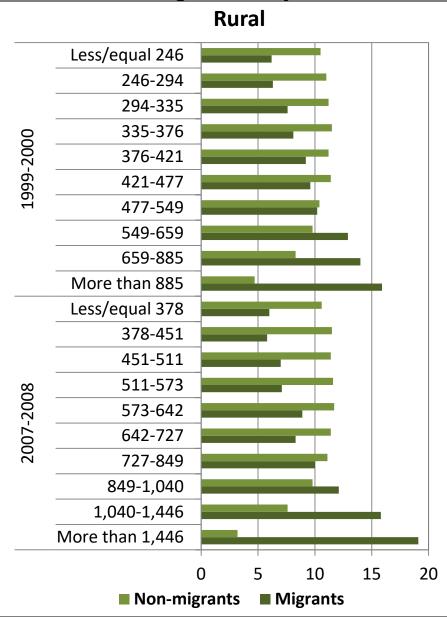
Occupation Structure of Migrant and Non-Migrant Workers

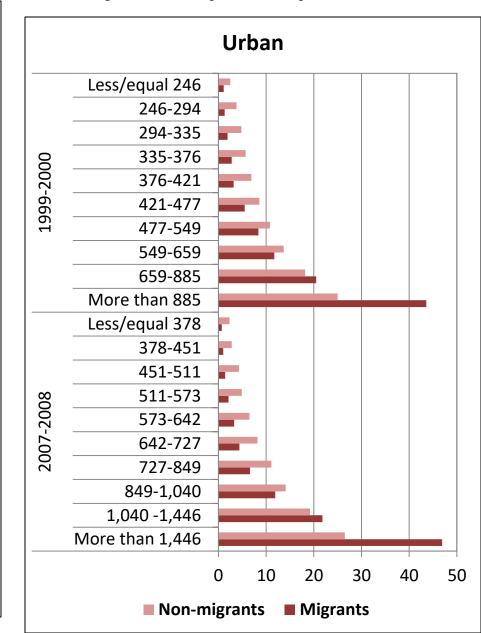
		Male				Female			
	Rura	al	Urban		Ru	ral	Urk	ban	
Industry	N- Mig	Mig	N- Mig	Mig	N- M	Mig	N- M	Mig	
Primary	65%	37%	7%	3%	76%	84%	10%	15%	
Manufact	8%	17%	22%	27%	12%	6%	28%	23%	
Pub Serv	4%	11%	8%	11%	6%	5%	34%	34%	
Construct	8%	10%	10%	9%	2%	2%	4%	6%	
Trad Serv	12%	20%	41%	33%	4%	2%	15%	15%	
Mod Serv	2%	5%	12%	16%	1%	1%	10%	8%	
Total	100%	100%	100%	100%	100%	100%	100%	100%	

Source: NSS 2007-08

Percentage Distribution of Adult Male Migrants

and Non-Migrants by Household Monthly Per Capita Expenditure



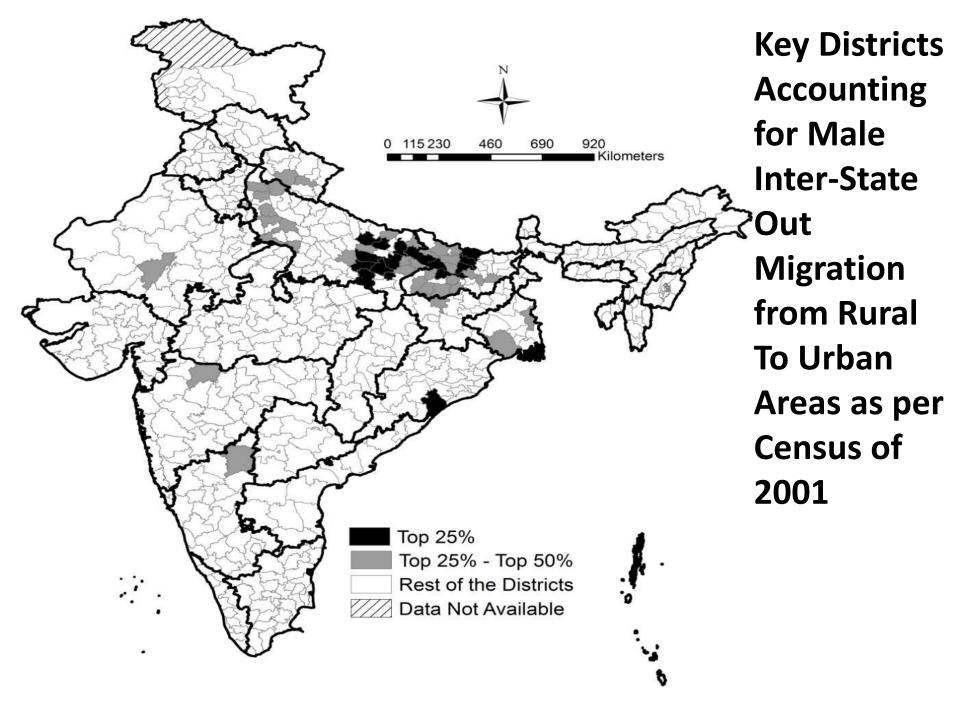


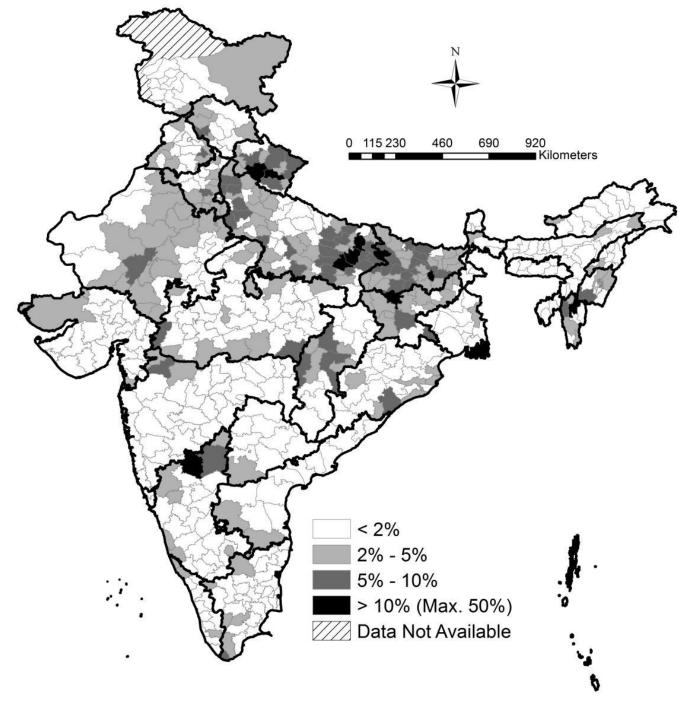
Issues concerning Equity in Urbsanisation

- Top heavy urban structure: High concentration in million plus cities. Emergence of a few small towns
- No linkages of the city core with periphery;
 Suburban development haphazard and messy. SDG 11 talks of cities to plan for sustainability, safety of population
- Reluctance to include new towns & peripheries in urban fold. SDG 11: Linking with small towns, interacting with semi urban and city periphery; balanced settlement structure.
- RU migration of poor & vulnerable slowed down

Crisis Managment

Pandemic, Premature Deindustrialisation and Crisis Management





Districts with a high level of inter-state outmigration intensity (interstate male outmigrants from rural areas) as per 2001 census

Percentage Share of In-Migrants across States

		NSS 2007-08		Cen	sus 2011
States/Uts	Inter State	International	Total	Inter state	International
Jammu and Kashmir	0.25	0.03	0.51	0.29	0.65
Himachal Pradesh	0.80	2.10	0.85	0.73	1.10
Punjab	5.24	6.38	2.77	4.59	5.05
Uttaranchal	2.97	0.76	1.12	2.30	1.50
Haryana	6.65	1.49	2.50	6.68	2.92
Delhi	13.01	2.50	1.92	11.67	3.24
Rajasthan	5.07	3.74	6.16	4.80	2.99
Uttar Pradesh	9.21	8.90	15.86	7.49	6.47
Bihar	1.57	0.64	5.33	2.05	7.26
Assam	0.31	0.27	1.17	0.91	2.01

Percentage Share of In-Migrants across States

		NSS 2007-08		Censu	us 2011	
States/Uts	Inter State	International	Total	Inter state	Internation	nal
West Bengal	5.19	35.74	7.94	4.39	36.53	
Jharkhand	1.17	0.00	1.47	4.05	0.58	
Orissa	1.59	0.13	3.82	1.58	1.34	
Chhattisgarh	2.88	0.38	2.55	2.34	1.15	
Madhya Pradesh	3.88	0.57	5.96	5.06	1.64	
Gujarat	6.15	1.97	5.55	7.22	1.59	
Maharashtra	16.59	7.42	12.08	16.75	5.91	
Andhra Pradesh	3.00	1.11	8.22	2.93	2.51	
Karnataka	6.00	0.54	4.92	5.98	1.92	
Goa	0.57	0.24	0.15	0.50	0.27	
Kerala	2.36	15.68	3.50	1.21	2.80	
Tamil Nadu	2.70	5.33	4.95	3.04	4.92	
UT	2.41	0.66	0.36	1.17	0.24	
NE	0.44	3.42	0.33	0	5.17	
Total	100	100	100	100	100	

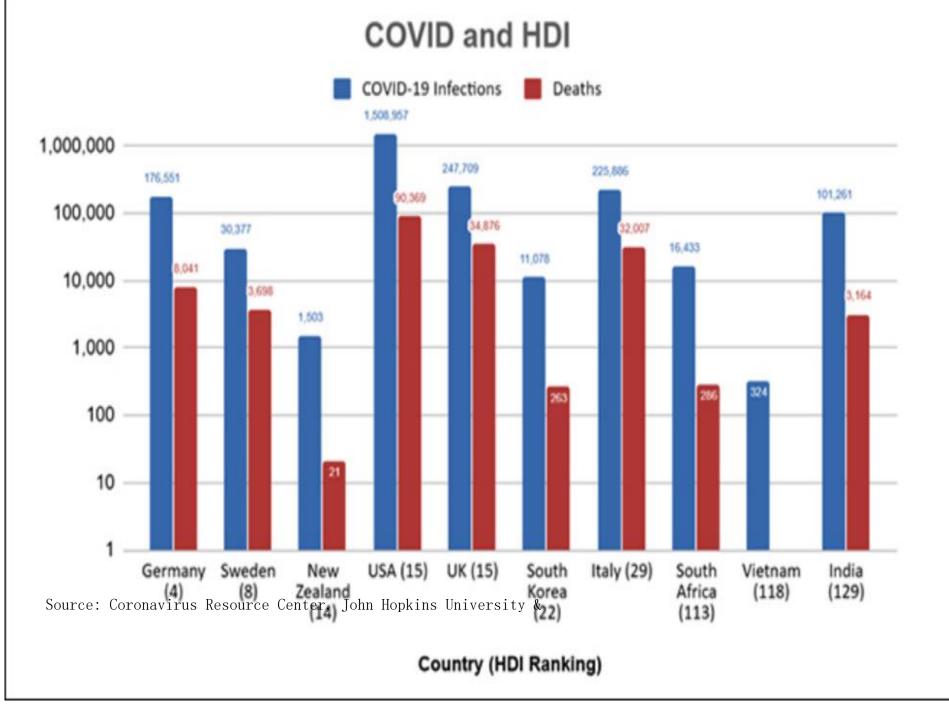
Select Indicators from Housing Amenities (Percent to total HHs) Source: Household Tables, Census 2011

	Urban	One room	HHs no	HHs no	HHs in
India/State/Cities	HHs	HHs	tap	latrine	slums
INDIA	78865937	32.1	33.1	18.6	17.2
Maharashtra	10813928	41.7	22.3	28.7	22.3
Karnataka	5315715	29.6	32.6	15.1	13.1
Tamil Nadu	8929104	36.7	47.7	24.9	16.3
West Bengal	6350113	41.7	46.9	15.0	21.4
Delhi NCT	3261423	32.3	21.3	10.2	11.4
Delhi (M. Corp)	2251616	30.1	15.6	10.8	16.5
Kolkata (M. Corp)	964183	42.5	27.8	5.1	29.3
Pune (M. Corp)	733990	35.3	9.0	20.8	18.7
Gr. Mumbai (MC)	2665481	57.3	21.1	42.4	40.0
Gr. Banga (MC)	2105894	32.1	19.6	3.2	7.8
Chennai (MC)	1106567	38.6	24.2	4.4	28.0

Select Indicators from Housing Amenities

Source: Household Tables, Census 2011

India/State/Cities	Total Urban Households	HHs without Excl Room	HHs with one dwelling room	HH with couple without excl room
INDIA	78865937	3.1	32.1	2.1
Maharashtra	10813928	4.9	41.7	3.2
Karnataka	5315715	7.1	29.6	5.2
Tamil Nadu	8929104	4.7	36.7	3.5
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India's GDP Collapses In Face of Pandemic

Quarterly GDP growth in India (year-over-year, at constant 2011-12 prices)*

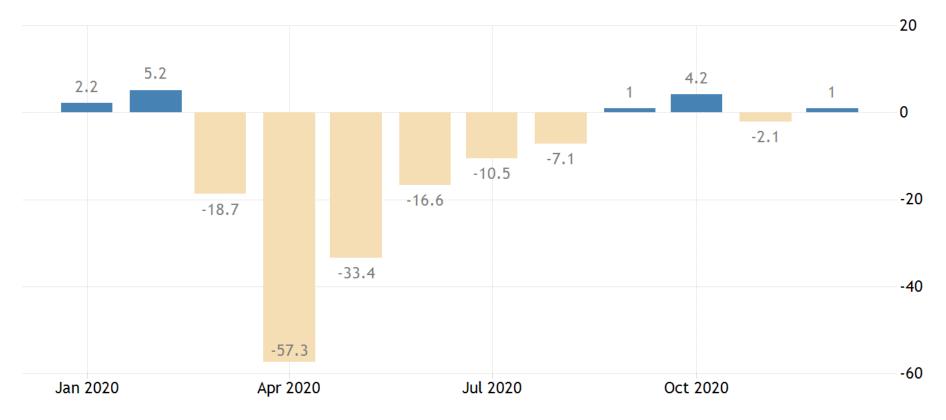


statista 🎜

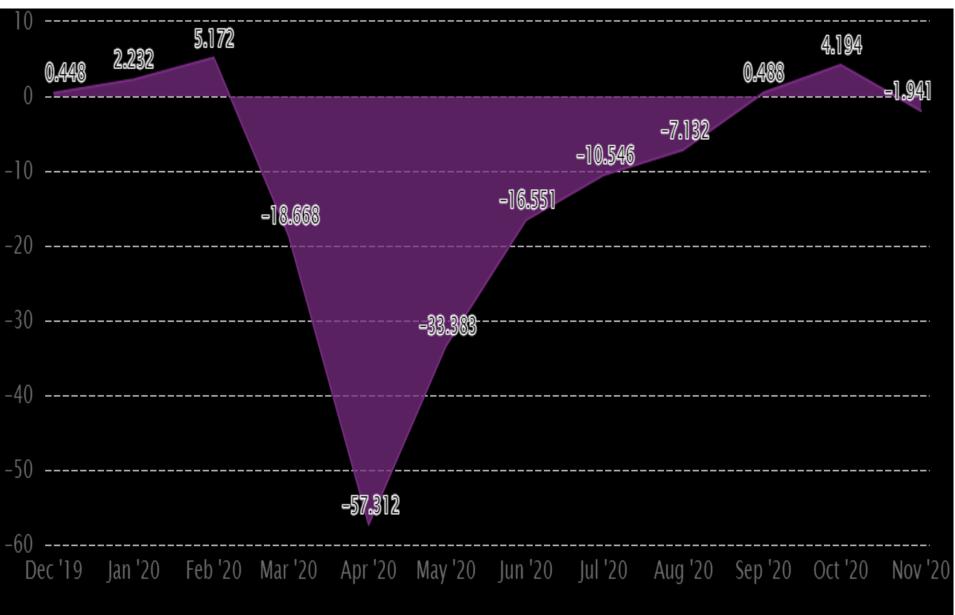
* India's financial year runs from April 1 to March 31 Source: Indian Ministry of Statistics and Programme Implementation



India Industrial Production 2020 Data



SOURCE: TRADINGECONOMICS.COM | MINISTRY OF STATISTICS AND PROGRAMME IMPLEMENTATION (MOSPI)



Industrial Production Index: YoY: Monthly: India

SOURCE: WWW CEICDATA COM | CEIC Data

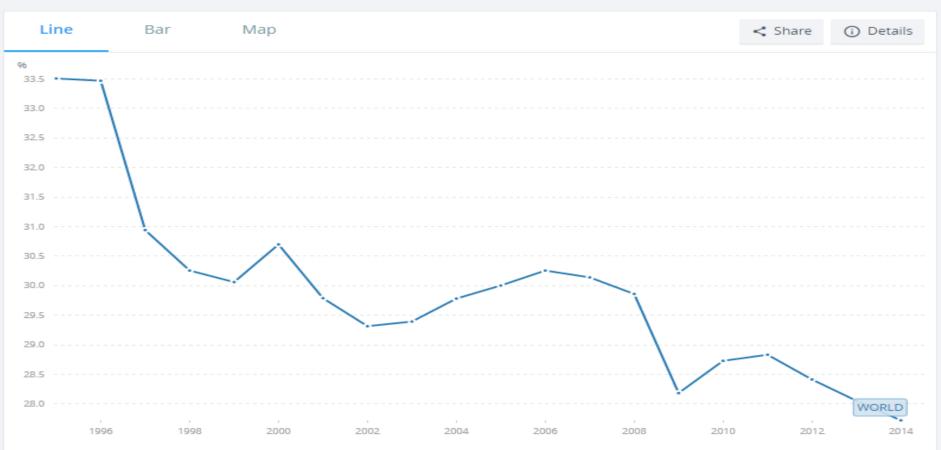
Premature Deindustrislidsation and Middle Income Trap in Developing Countries (**Dani Rodrik) Percentage Share of Industries in GDP in the World**

value added (% 🛛 🗙

i data.worldbank.org/indicator/NV.IND.TOTL.ZS

World Bank national accounts data, and OECD National Accounts data files.

License: Open



Percentage Share of Industries in GDP in the Low and Middle Income Countries

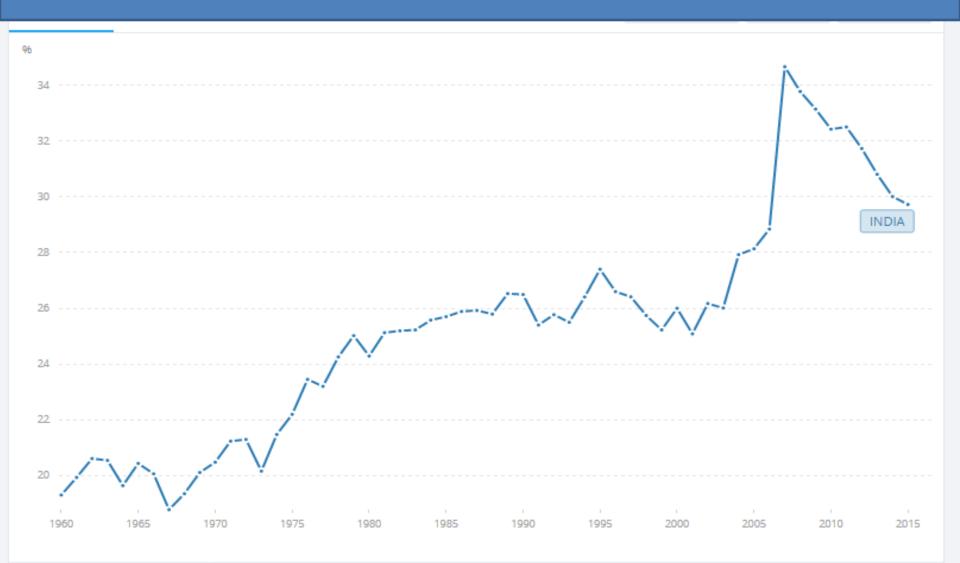


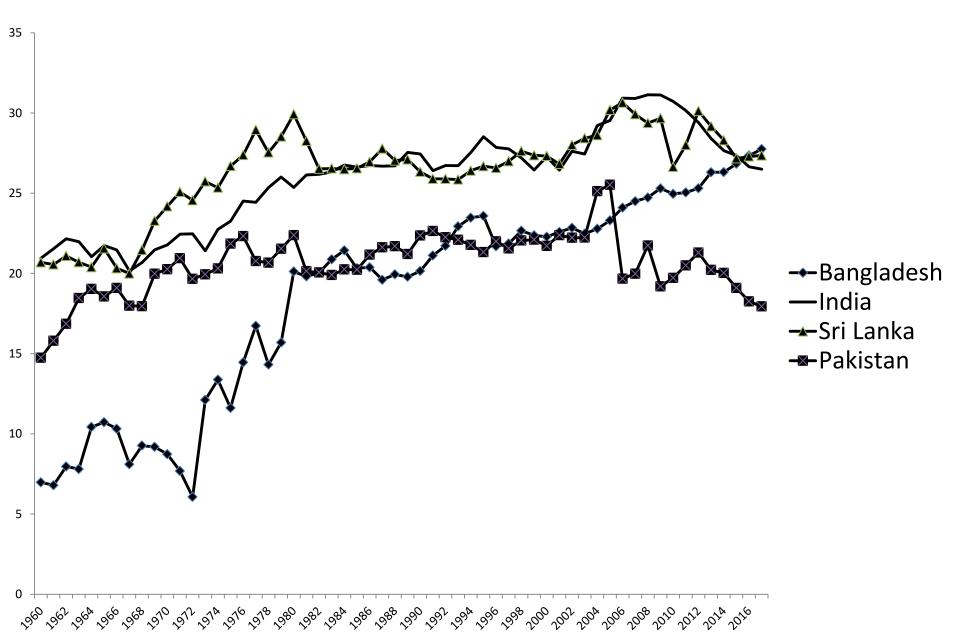
Percentage Share of Industries in GDP in China



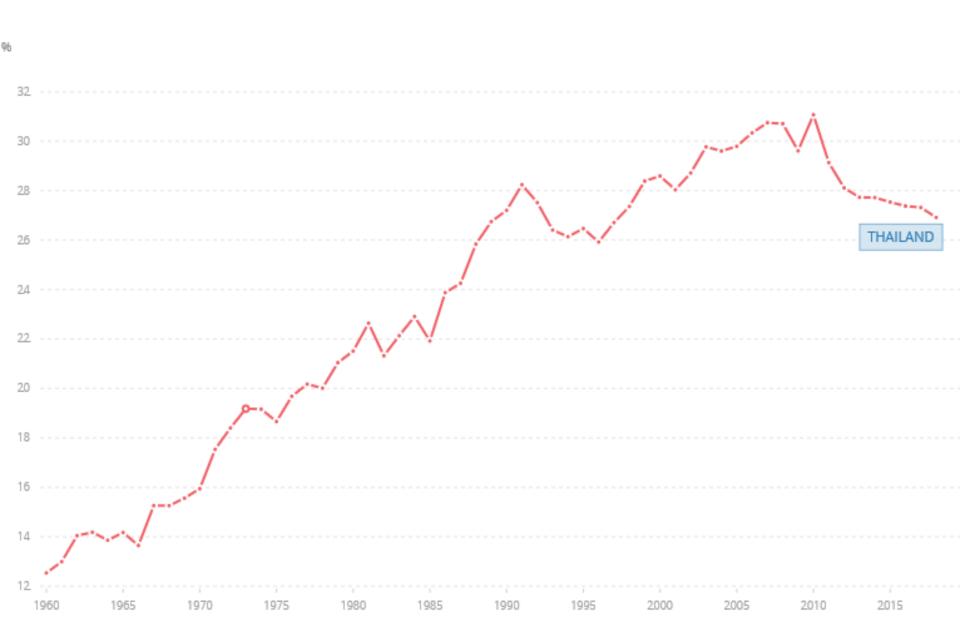
1960 - 2015

Percentage Share of Industries in GDP in India

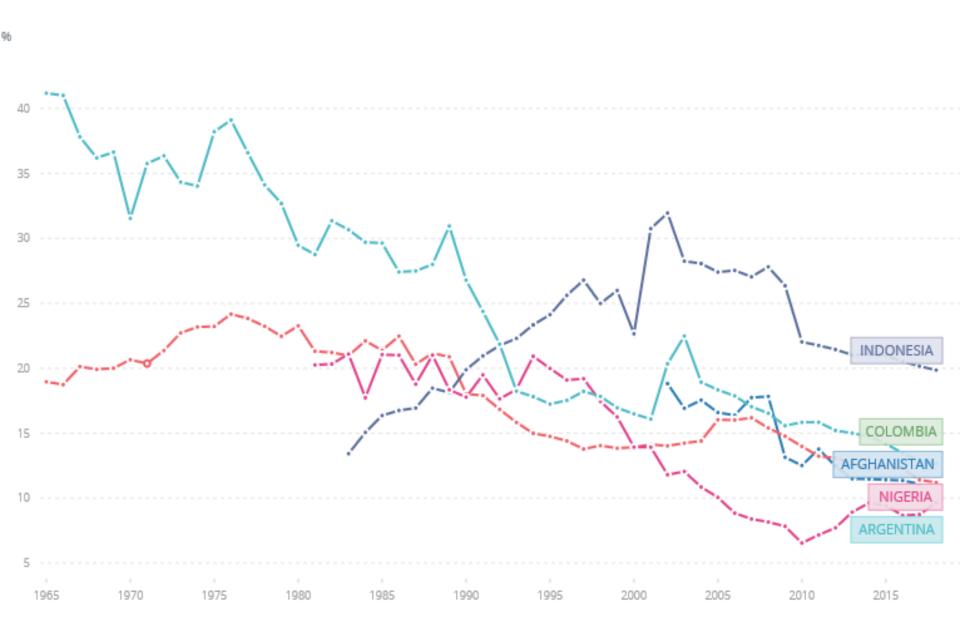




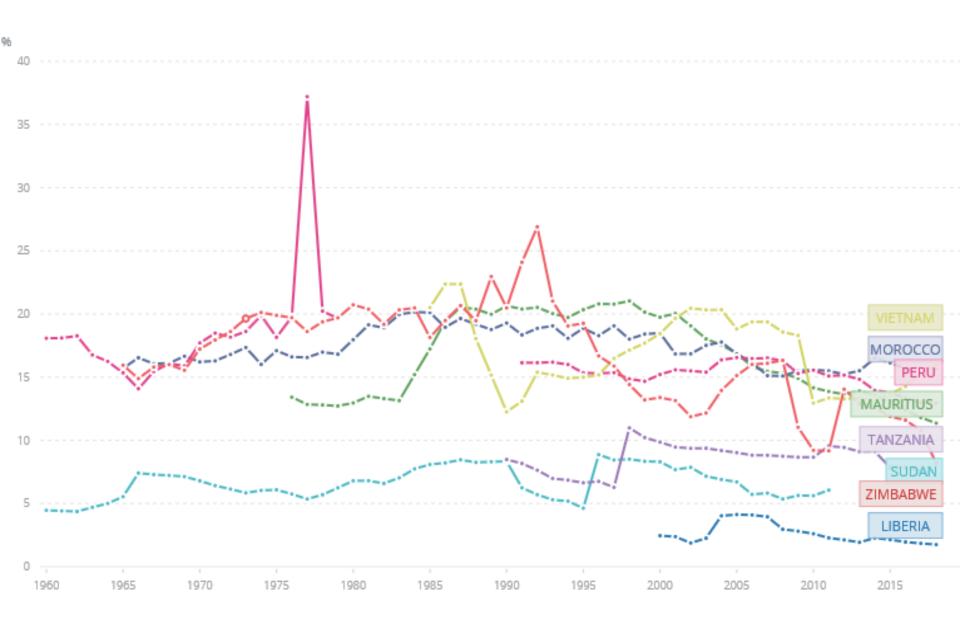
Manufacturing, value added (% of GDP) - Thailand



Manufacturing, value added (% of GDP) – Afghanistan, Argentina, Indonesia, Nigeria, Columbia,



Manufacturing, value added (% of GDP) - Liberia, Mauritius, Morocco, Peru, Sudan, Tanzania, Vietnam, Zimbabwe



Restrictions on Interstate Movement

- AP, TN and Karnataka have some law, ordinance or admn. orders to reserve jobs in certain categories for the locals or language proficiency in public sector; recomended also for pvt sector.
- Maharashtra and Gujarat having reservation for locals in public sector units
- Rajasthan, Madhya Pradesh West Bengal, Goa etc. are considering reservation at least in state sector

All these are against the Article 16 of the Constitution and the spirit of Inter-state migrant workmen Act, 1979

Covid19 Linked Relaxation in Labour Laws

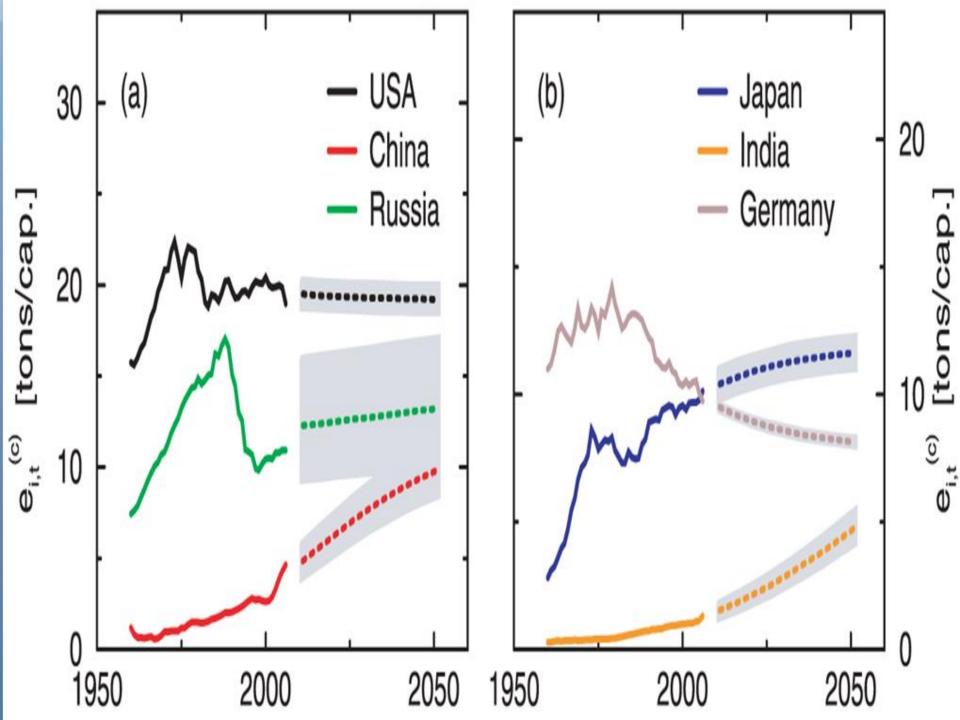
- Barring the provisions under the Factories Act, 1948 and, Construction Workers Act, 1996; Child Labour Act of 1986; Maternity Benefit Act, 1961; Equal Remuneration Act, 1976; Bonded Labour Act, 1976 etc. all labour laws are suspended in UP
- In MP, Industrial Disputes Act, 1947 amended allowing new establishments exemptions from most provisions under the Industrial Disputes Act, 1947, applicable for a period of thousand (1000) days subject to investig and settlement of industrial disputes. Also exemption from Factories Act, 1948 and MP Factories Rules, 1962 for 3 months

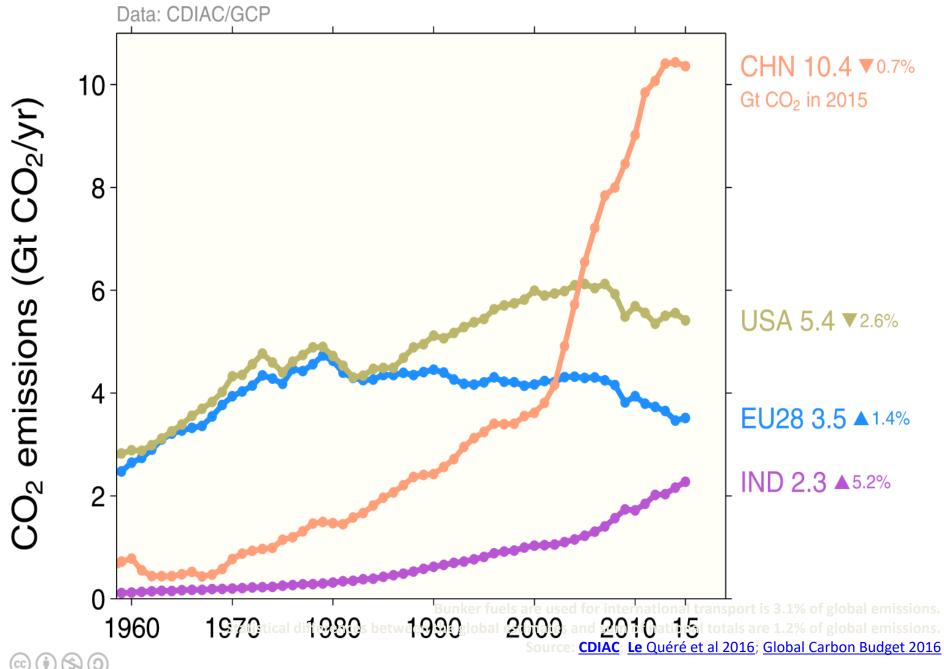
Relaxation in Labour Laws in States

- Gujarat exempted all factories registered under the Factories Act, 1948 from provisions relating to weekly hours, daily hours, intervals for rest etc., with effect from April 20, 2020 applicable to new projects
- Rajasthan extended working hours of adult workers under the Factories Act, 1948 to 12 per day for3 months. Overtime to bepaid for additional 4 hours subject to a limit of 24 hours per week.
- Himachal Pradesh exempted factories registered under Factories Act, 1948 from provisions relating to weekly, daily, spread hours and interval of rest until July 20, 2020

- History repeats itself but it can be transcended through foresight and planning. We should not be walking down this dangerous path.
- Revisit the modifications in Law by Dec 2020

Issues of Resilience





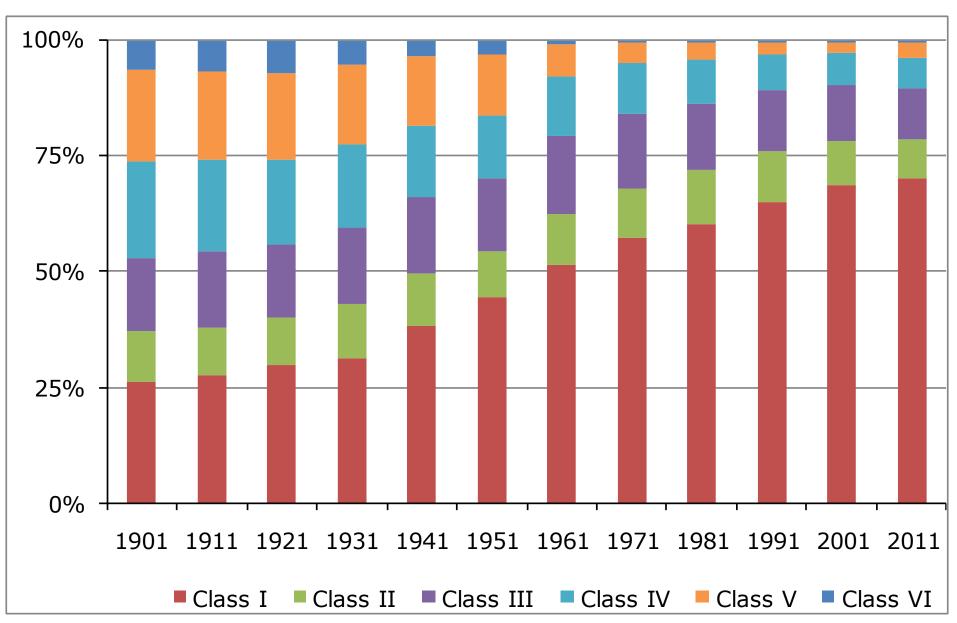
Global Carbon Pro

Percentage of Population in Cities with Population over 5 million to Total Urban Population

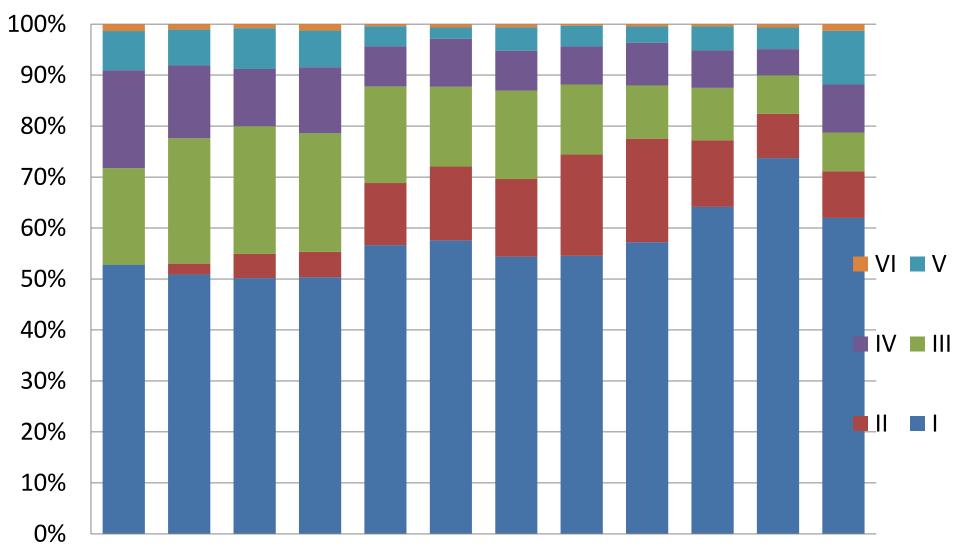
Europe	Africa	Less	World	Develope	Asia	South	India
		Developed	Average	d		Central	
		Countries		Countries		Asia	
7.5	9	15	15.5	16	18	23	23.5

Implications of top heavy urban structure: high infrastructural cost, energy consumption, regional disparity and threat to sustainable development.

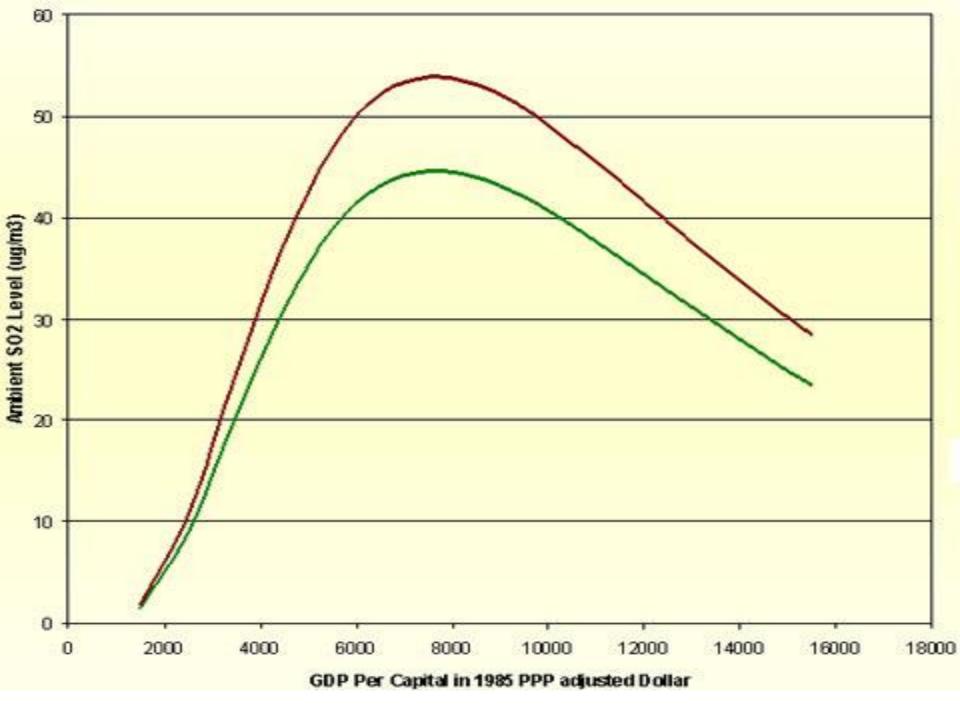
Proportion of urban population in different size categories, 1901–2001



Percentage of Urban Population in West Bengal in Different Size Classes 1901- 2011



1901 1911 1921 1931 1941 1951 1961 1971 1981 1991 2001 2011



COST COMPARISON OF ENERGY SOURCES 2018 Adapted from US DOE²

Power Plant Type	Cost \$/kW-hr
Coal with CCS	\$0.12-0.13
CC Natural Gas	\$0.05
CC with CCS	\$0.075
Nuclear	\$0.093
Wind onshore	\$0.059
Wind offshore	\$0.139
Solar PV	\$0.063
Solar Thermal	\$0.165
Geothermal	\$0.045
Biomass	\$0.095
Hydro	\$0.062

