

# India:

## Yesterday, Today, Tomorrow

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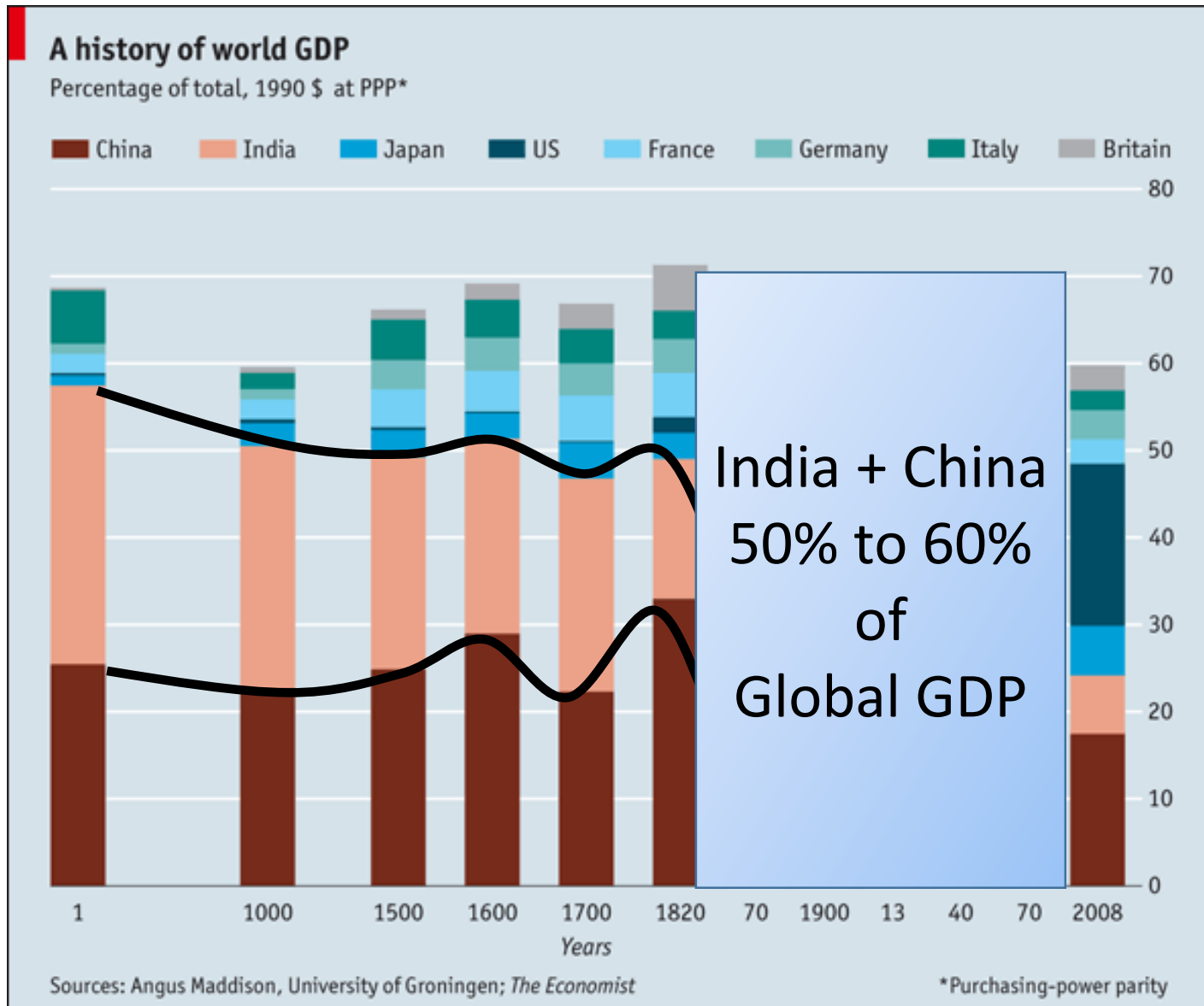
# Introduction

- India is considered a bright star in emerging markets
- It has growth momentum
- To understand this momentum we have to understand India's yesterday, today and tomorrow

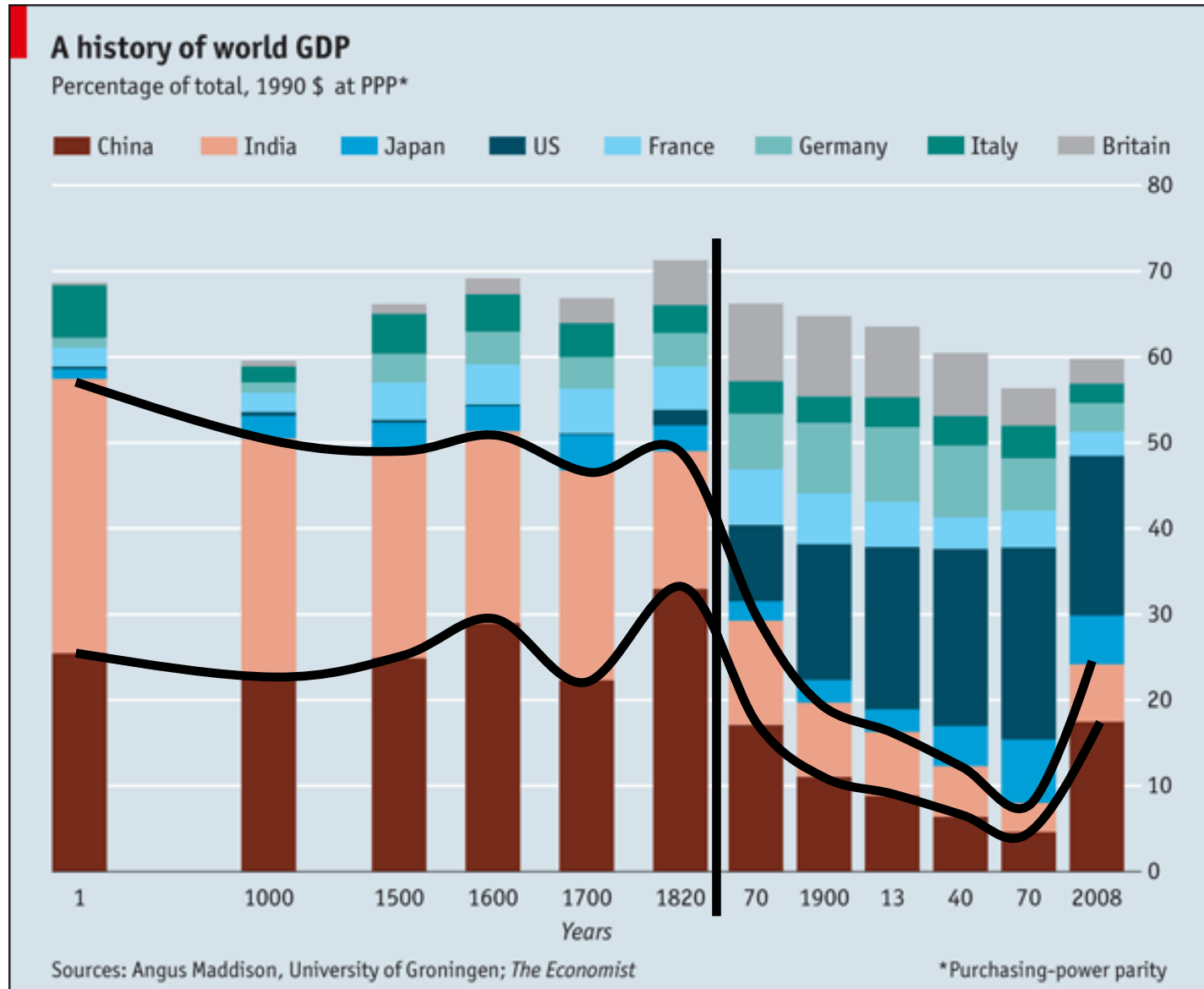
# India

- Yesterday was tragic
- Journey to today, despite slow start and detours, confirms promise of the future
- Tomorrow can be spectacular but with potholes, roadblocks and detours

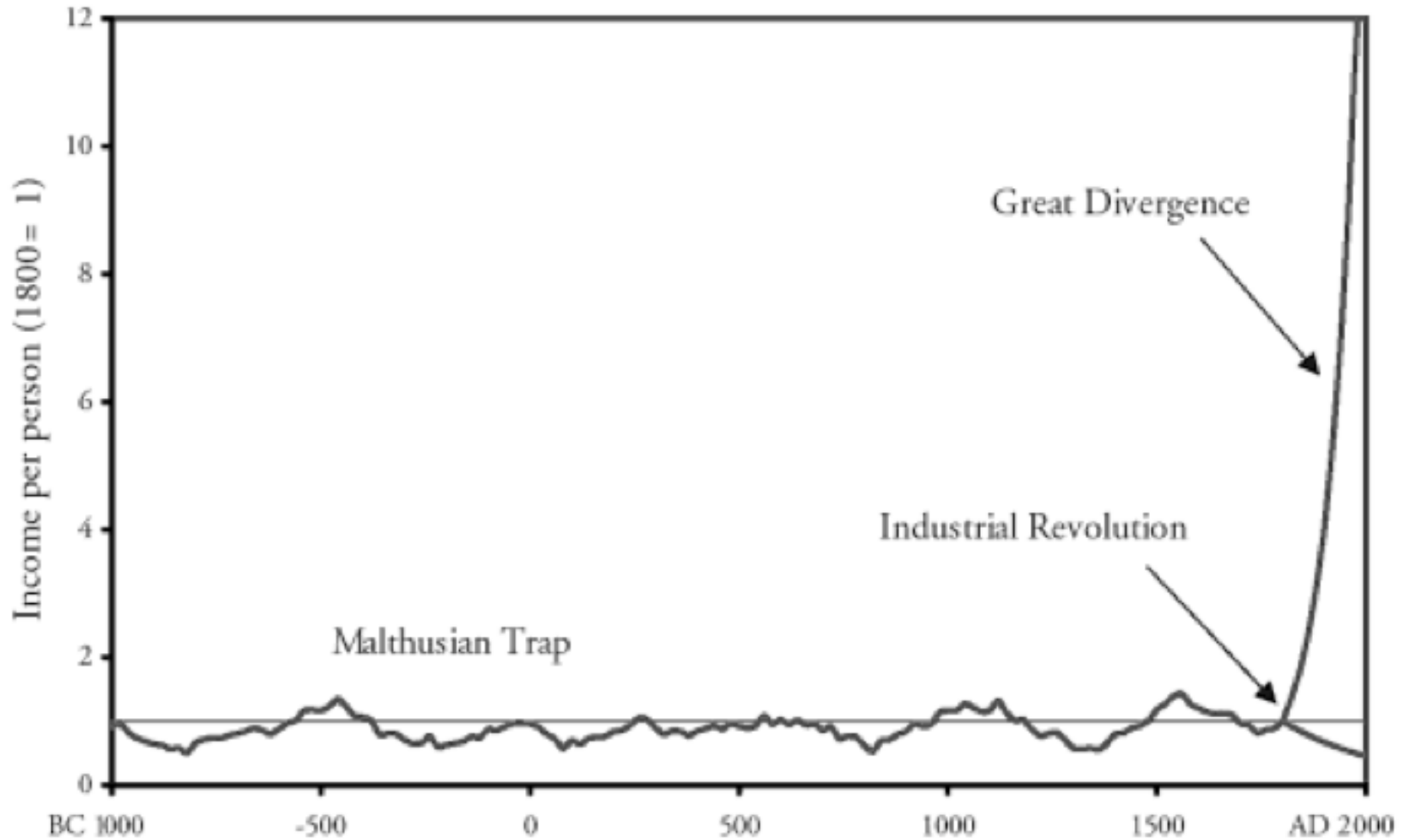
# Global GDP: A historical view



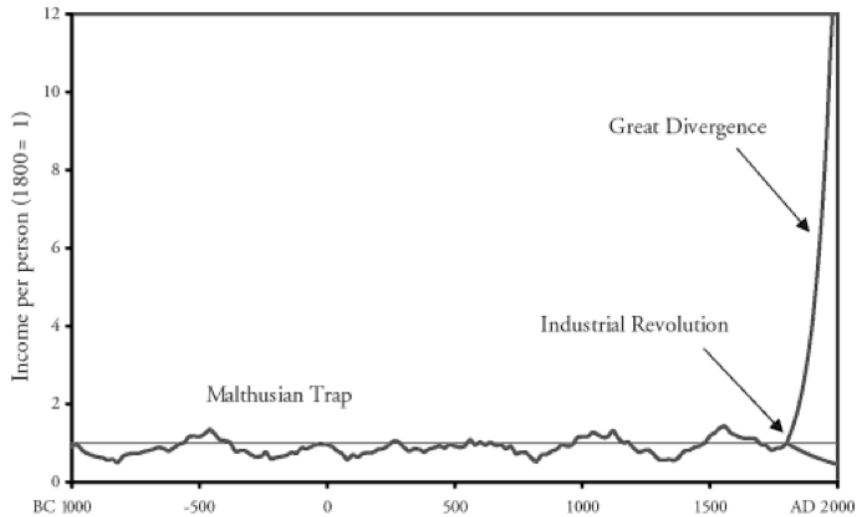
# From 25% to 2% of Global GDP



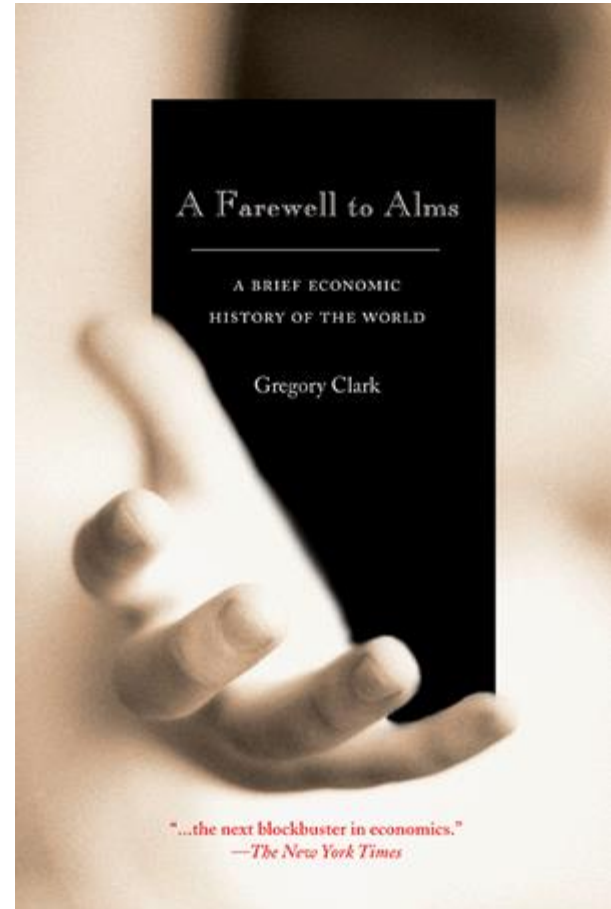
# Why did this happen?



# Why did this happen?

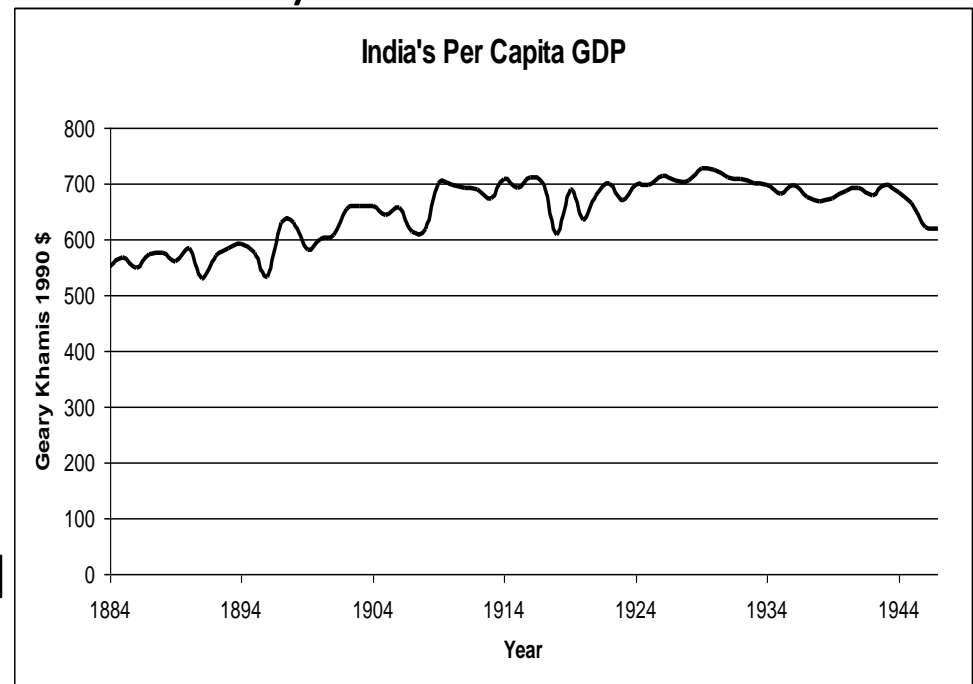


- India could not participate in the industrial revolution
- Domestic handcrafted industries were destroyed



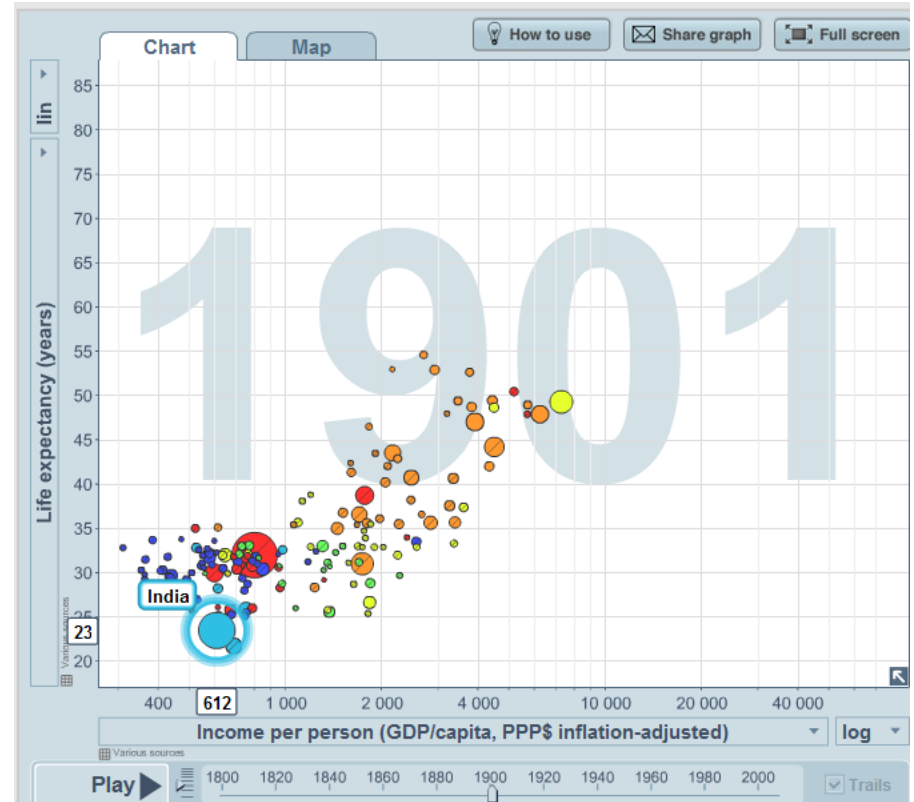
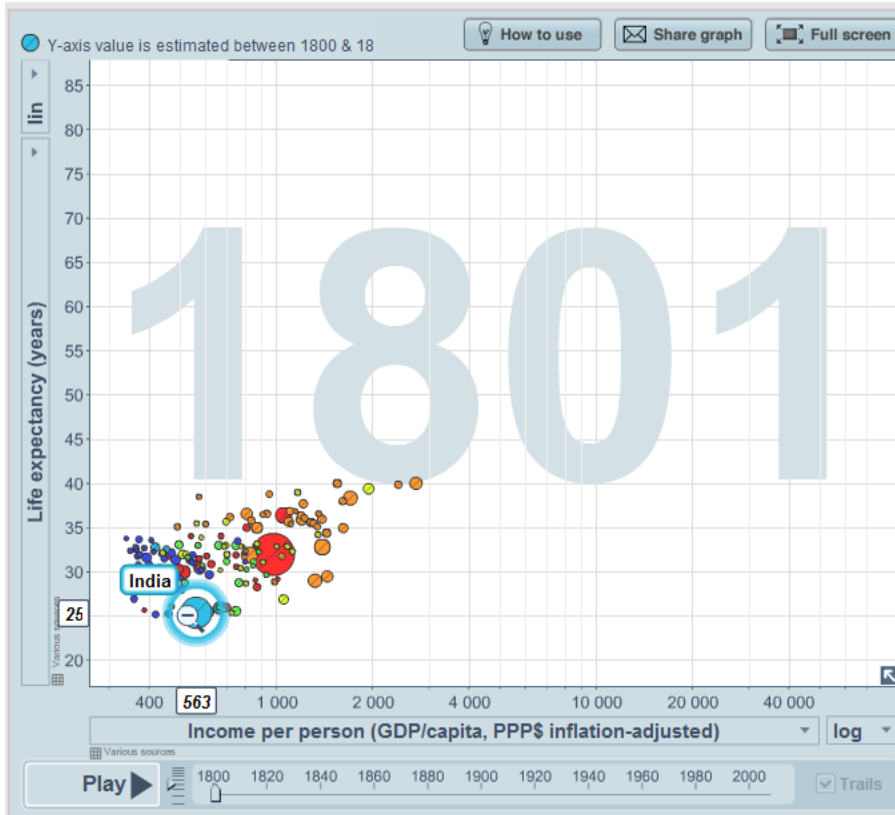
# Tragic Yesterday

- British taxation and famines decimated the population and impoverished the country
- Life expectancy in 1951: 32 years
- Infant mortality rate: 190/1000 births
- Literacy in 1947: 11%
- 1800-1825: 1 million Indians died of famine
- 1850-1875: 5 million died
- 1875-1902: 26 million died
- 1905/06: 235,000 people died in the city of Bombay alone
- 1943: 2.0 Million people died of famine in Bengal alone



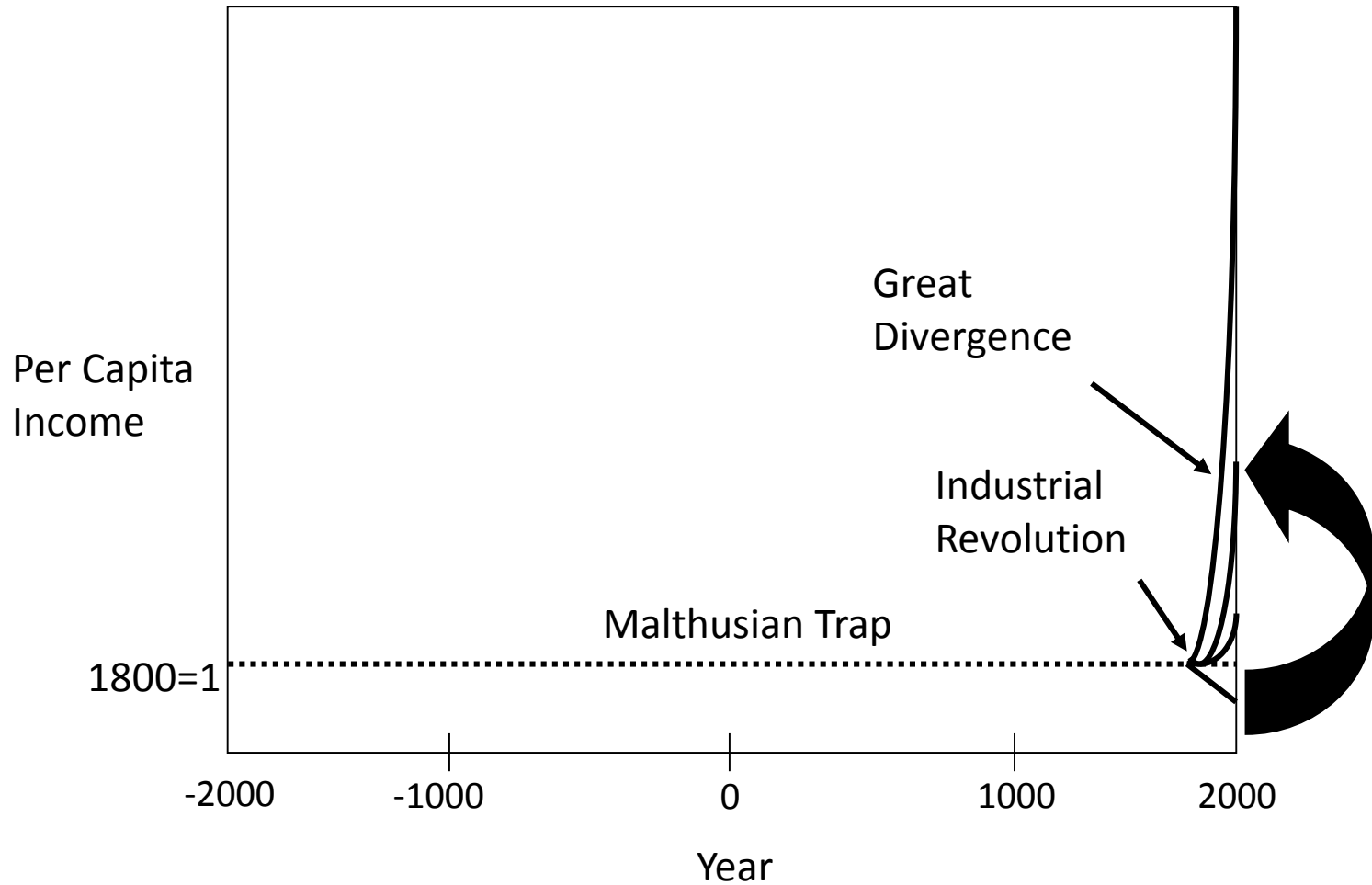


# Wealth/Health: 1801 to 1901

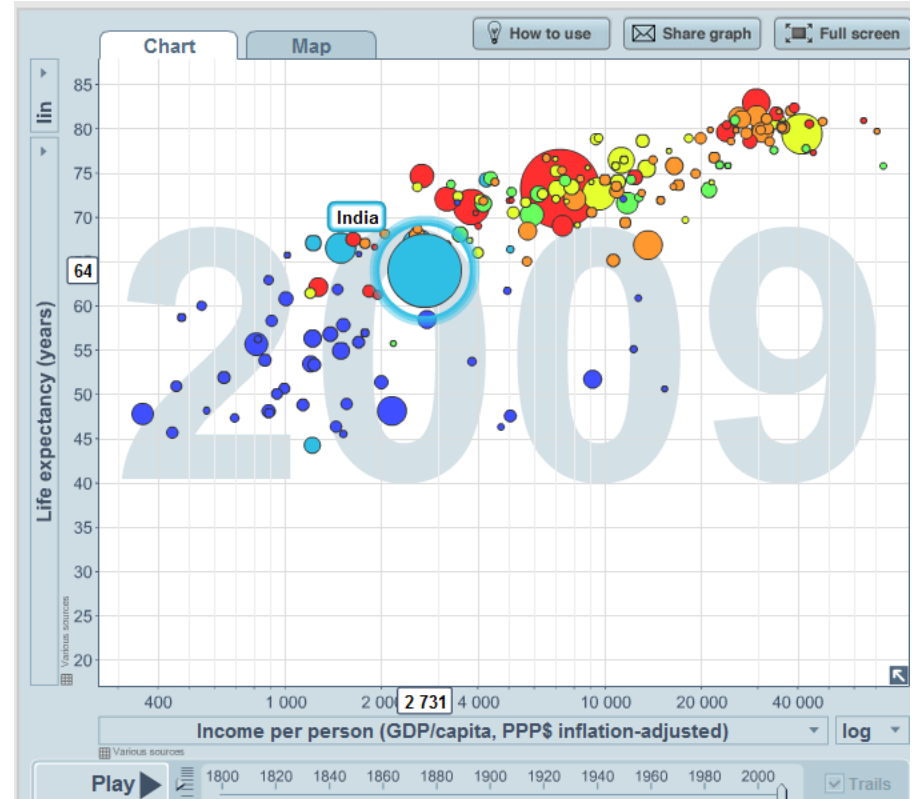
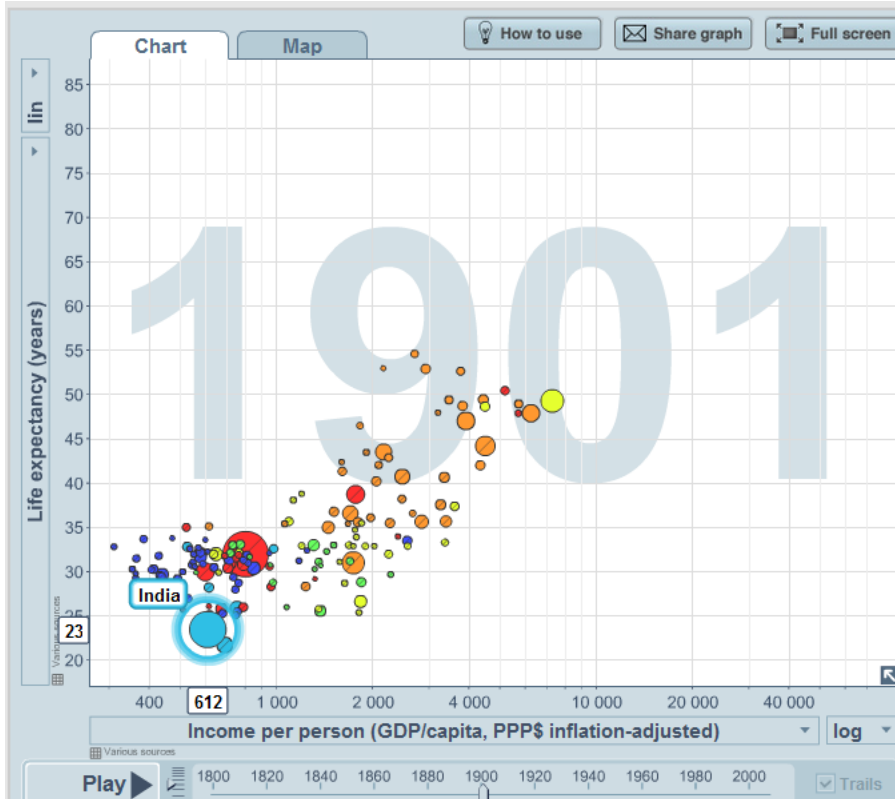


# 1947 to 2014

## Overcoming the Great Divergence



# Wealth/Health: 1901 to 2009



# India Today: GDP

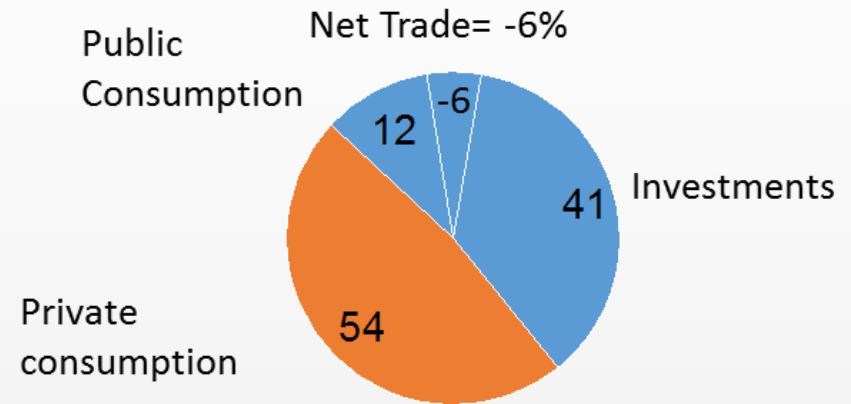


SOURCE: [WWW.TRADINGECONOMICS.COM](http://WWW.TRADINGECONOMICS.COM) | WORLD BANK GROUP

# India Today: GDP

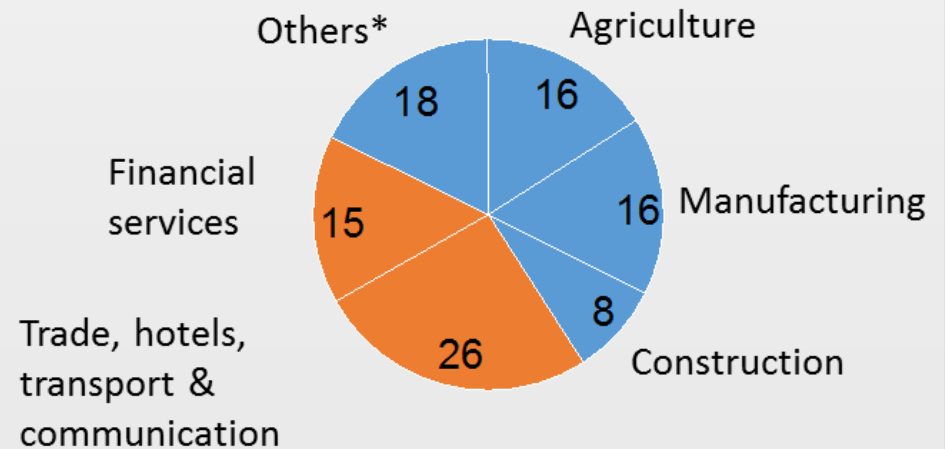
## Real GDP growth – expenditure approach

FY 10; percent



## Real GDP growth – output approach

FY 10; percent



# A healthier population

- Population: 1,236,344,631 (July 2014 est.)
- Life expectancy: 67.8 years from 32 in 1951
- Infant mortality rate: 43.19/1,000 births from 190
- Literacy: 63% from 11%
- Labor force:
  - 487 million
  - 2<sup>nd</sup> largest in the world
- Median age: 27 years
- Age structure
  - 0-14 years: 28.5% (male 187,016,401/female 165,048,695)
  - 15-24 years: 18.1% (male 118,696,540/female 105,342,764)
  - 25-54 years: 40.6% (male 258,202,535/female 243,293,143)
  - 55-64 years: 7% (male 43,625,668/female 43,175,111)
  - 65 years and over: 5.7% (male 34,133,175/female 37,810,599) (2014 est.)

# A wealthier population

- GDP per capita (2013 US\$)

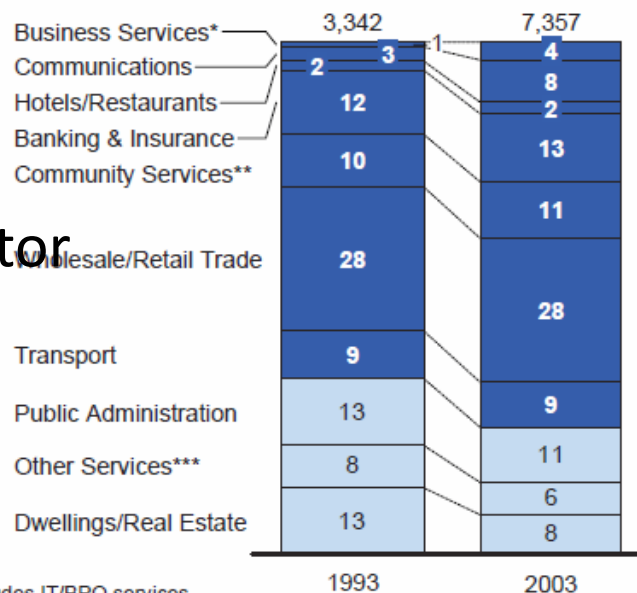
- \$4,000
  - 169<sup>th</sup> in the world
- \$3,900 (2012 est.)
- \$3,800 (2011 est.)

- GDP - composition by sector (2009 est.):

- Agriculture: 17%
- Industry: 26%
- Services: 57%

## SERVICES GROWTH HAS BEEN BROAD-BASED

**Service subsector breakdown, 1993–2003**  
%, billion, Indian rupees, 1993



**Compound annual growth rate, 1993–2003**

Subsector	Compound annual growth rate (%)
Business Services*	8
Communications	23
Hotels/Restaurants	21
Banking & Insurance	10
Community Services**	9
Wholesale/Retail Trade	9
Transport	8
Public Administration	8
Other Services***	7
Dwellings/Real Estate	6
<b>Total</b>	<b>5</b>

\* Includes IT/BPO services.

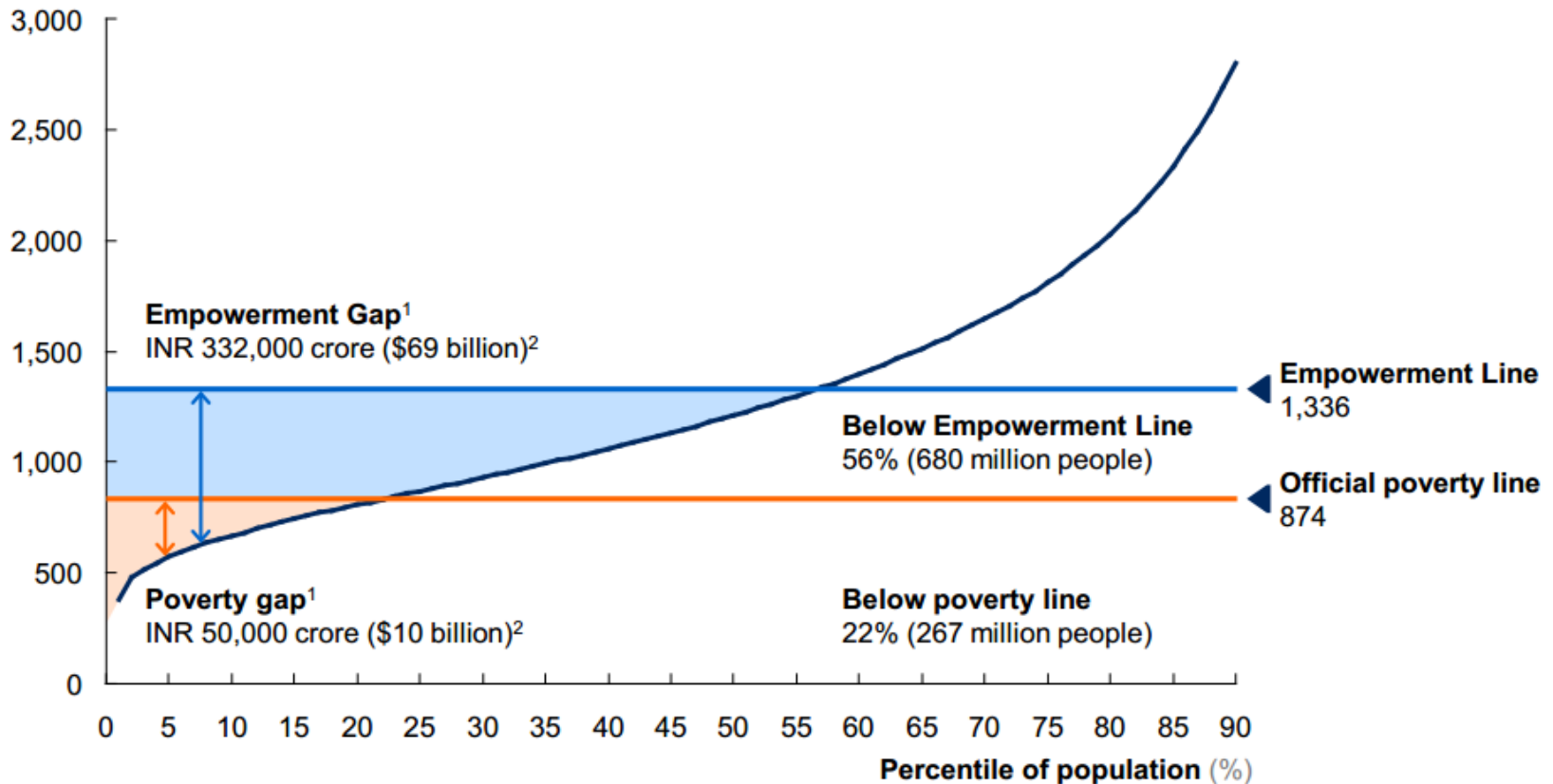
\*\* Includes health care and education.

\*\*\* Includes personal services, legal services, railways, storage, entertainment etc.

Source: Central Statistical Organization; MGI India Consumer Demand Model, v1.0

# The Empowerment Gap is 7 times larger than the Poverty gap

**Average monthly consumption expenditure**  
INR per capita per month, 2011–12, in 2011–12 prices





# Categories of Deprivation

## Most Deprived

126 districts  
27% population share  
Average ADS<sup>1</sup>: 59 percent

## Household Services Deprived

177 districts  
18% population share  
Average ADS: 49 percent

## Moderately Deprived

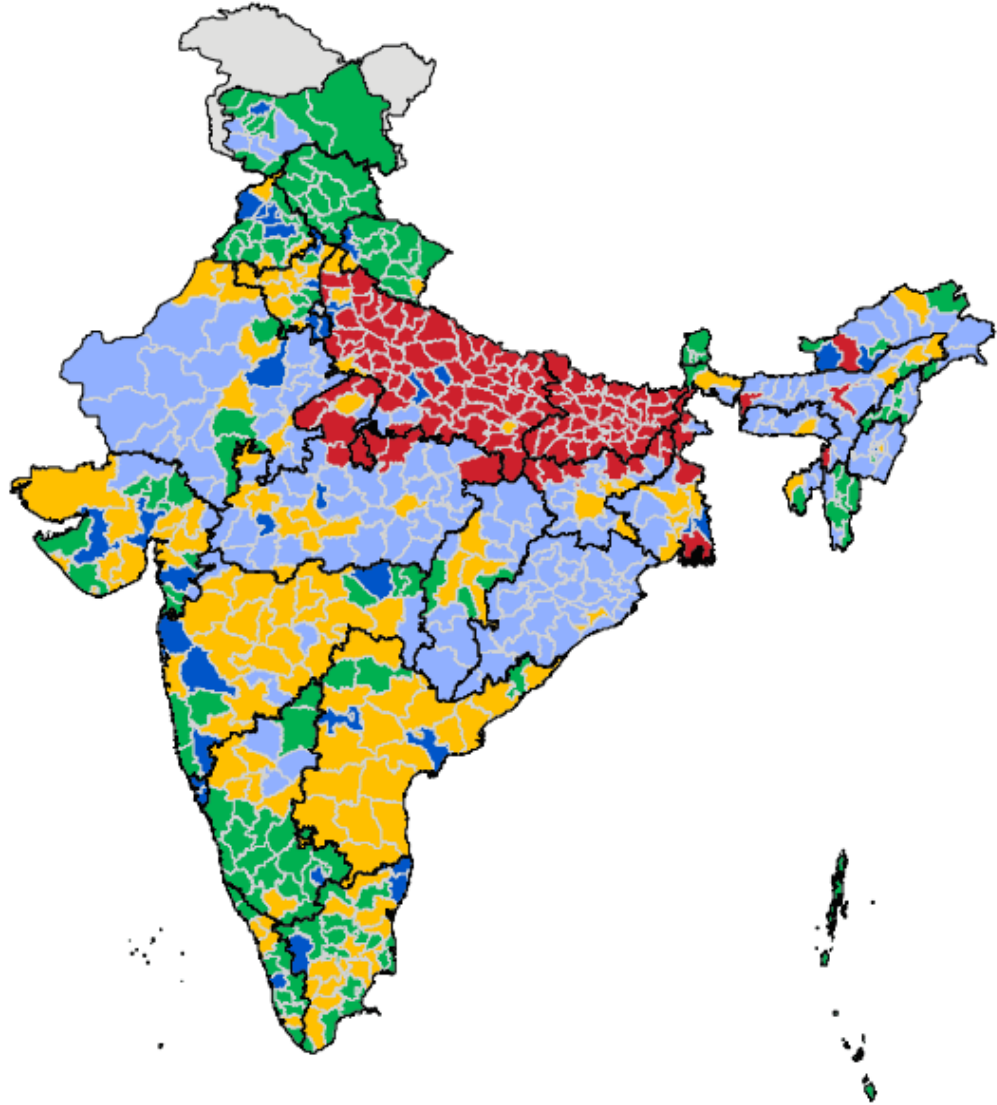
127 districts  
26% population share  
Average ADS: 41 percent

## Community Services Deprived

59 districts  
15% population share  
Average ADS: 37 percent

## Least Deprived

151 districts  
14% population share  
Average ADS: 34 percent

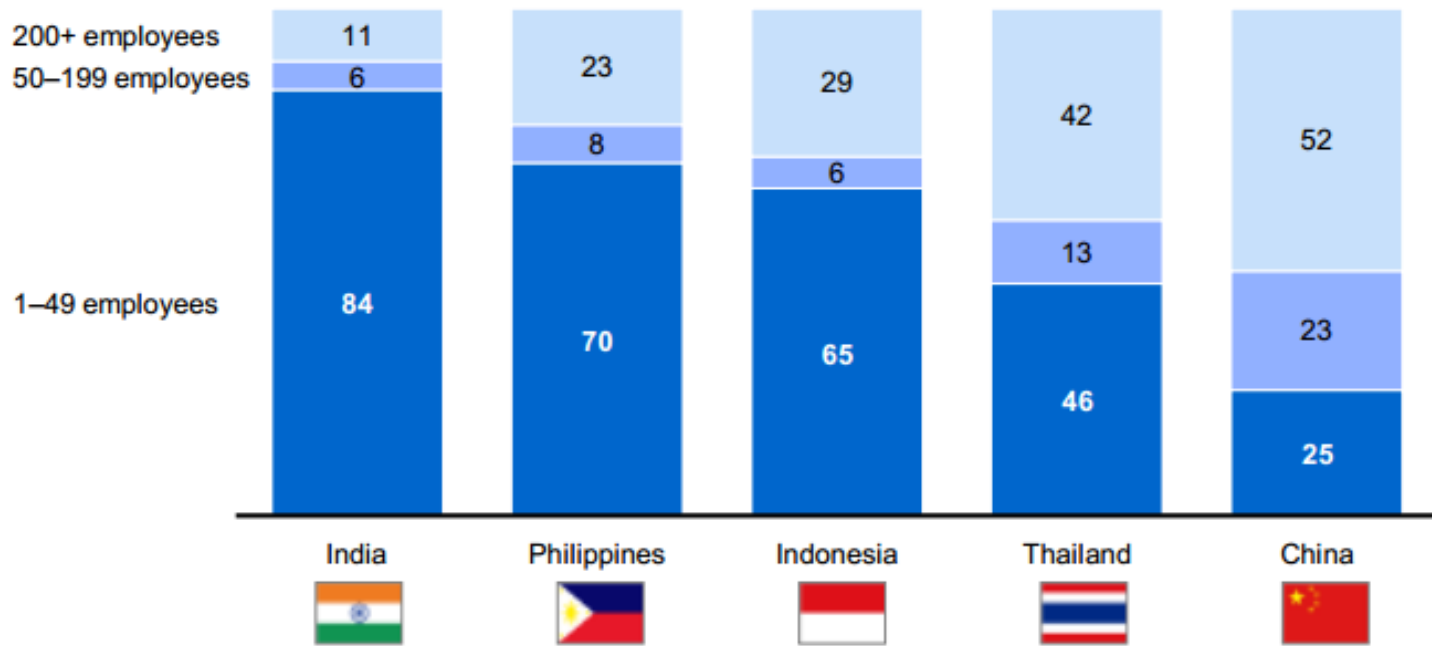


1 Access Deprivation Score: distance of each district from the point of no deprivation.

# India's Manufacturing

Share of manufacturing employment by firm size, 2009

%



Value add per worker, 2005<sup>1</sup>

\$ thousand per year



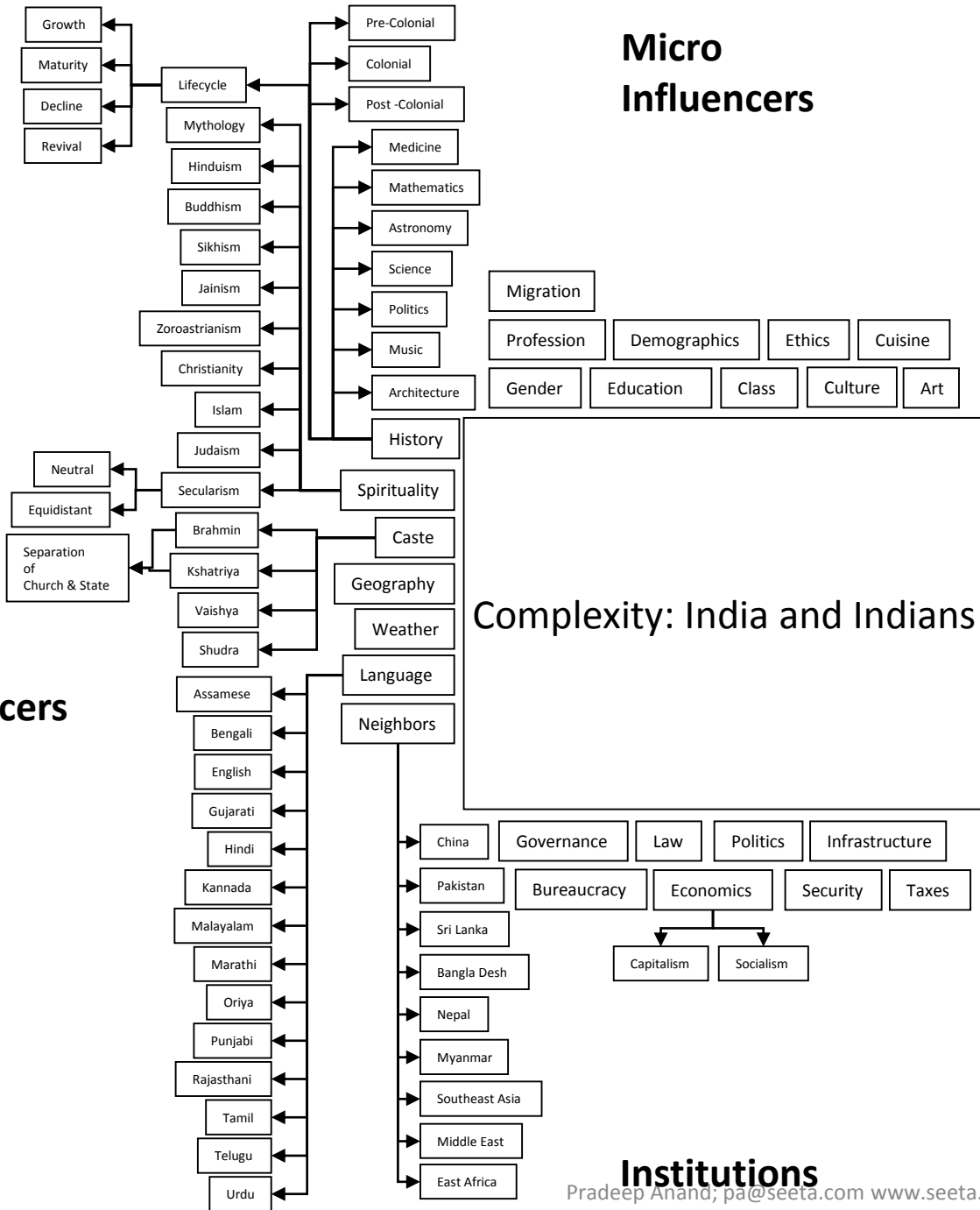
# A complex, pluralistic society

- Complexity
  - Macro
    - Cultural, religious, scientific, political, architectural, and economic histories of a people
  - Micro
    - Quality, Quantity, Characteristics, Drivers/Motivations
- Resources
  - Infrastructure
- Institutions
  - Political, religious, economic, legal, social and others









# Macro Influencers

# Micro Influencers

# Resources

## Complexity: India and Indians

# Institutions

# Lacking Infrastructure

- Common Complaints
  - Roads have potholes; traffic lights don't work; rural roads are largely unpaved; cities traffic often snarls to a halt; long-distance trucks average only about 20kph (12mph); delays and shakedowns by grasping officials add 30% to the cost of road freight
  - Businesses need their own power backup; own water-treatment plants; own transport for employees; computer servers need costly extra layers of backup



# There ain't no free lunch

- The state can't fix the infrastructure because it is broke
  - Government debt almost 70% of GDP, more than half is interest expense
  - Government expenditures amount to about 15% of GDP; average 40% of GDP in OECD countries
- Badly designed and administered tax system
  - Income tax is about 3.7% of GDP, half that in South Korea and other Asian tigers
  - Agriculture in India accounts for 17% of GDP; wealthy farmers don't pay taxes
  - Excise taxes account for over 60% of India's indirect taxes
  - Exemptions invite abuse. Evasion of excise taxes is more contagious than evasion of taxes on profits and incomes

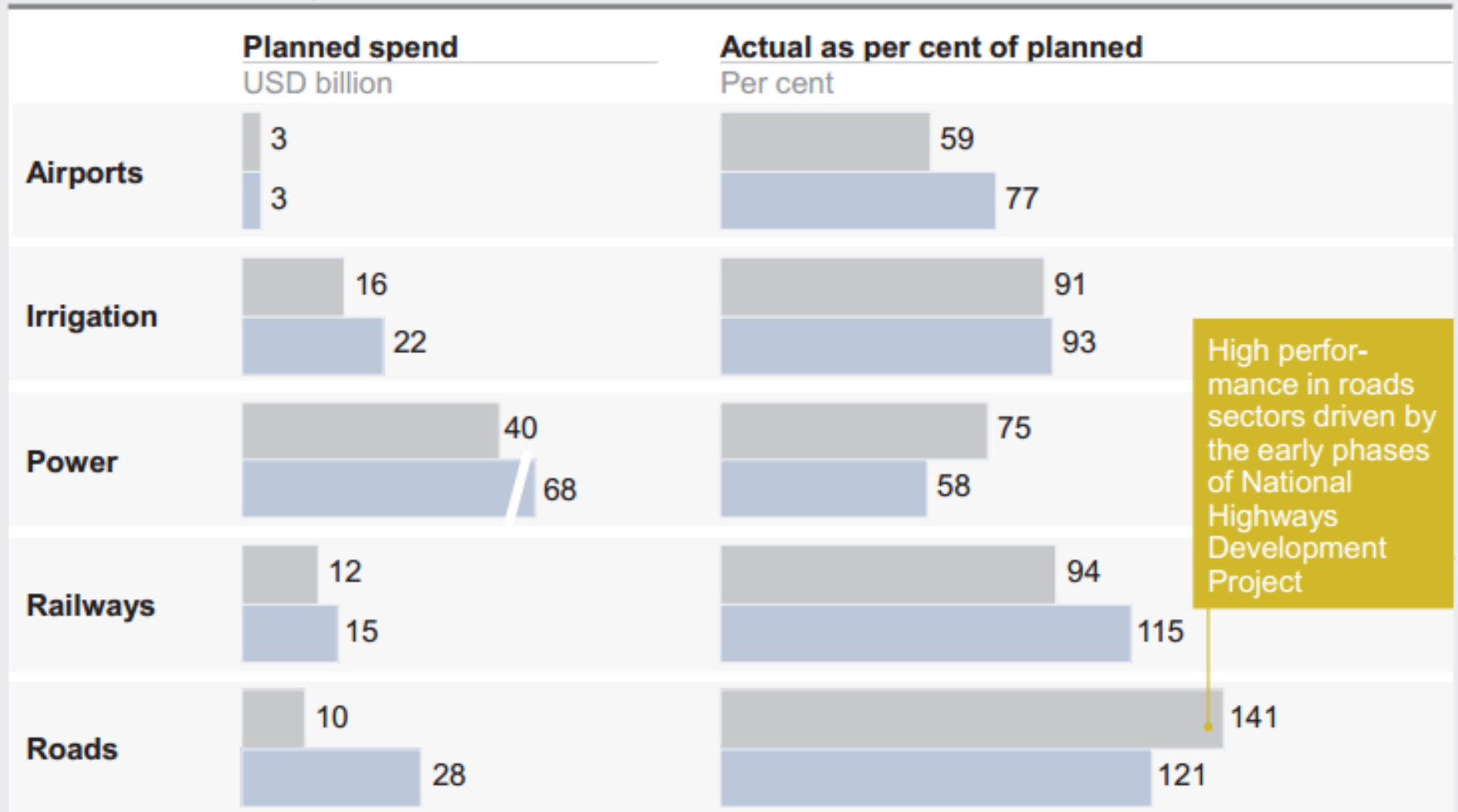
# India Government Debt to GDP



SOURCE: [WWW.TRADINGECONOMICS.COM](http://WWW.TRADINGECONOMICS.COM) | MINISTRY OF FINANCE, GOVERNMENT OF INDIA

# Planned Spend vs. Actual Spend (2009)

Planned and actual spend across sectors in 9<sup>th</sup> and 10<sup>th</sup> Plans



# Skills Shortage

- 40% are illiterate; another 40% failed to complete school
- Shortage: 200,000 engineers, 400,000 other graduates and 150,000 vocationally trained workers;
- Surplus: barely-skilled workers in agriculture
  
- Only 16 world-class Indian Institutes of Technology
- Tech-minded young are getting cocky; wages are surging; additional training needed for college graduates; poor employee loyalty; excessive poaching
  
- Supplies disappear; teachers do not turn up; cannot be fired constitutionally

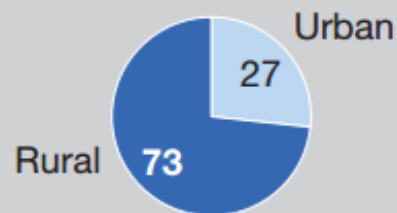
# India's Offline Population

% of non-Internet users

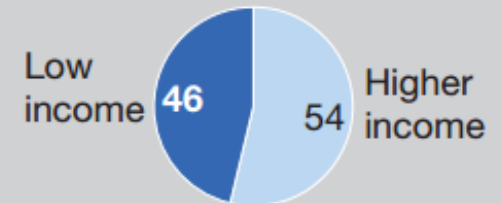
Non-Internet users, 2013

~1,063M  
(85% of the  
total population)

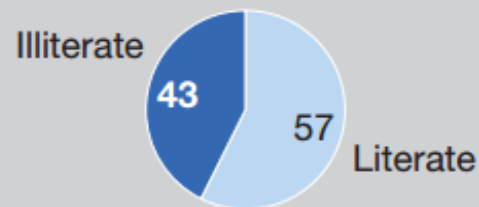
Urban-rural<sup>1</sup>



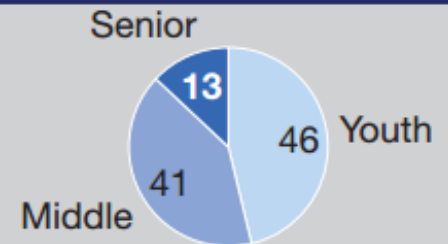
Income<sup>2</sup>



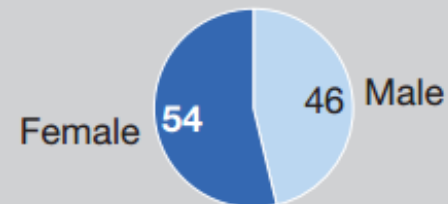
Literacy<sup>3</sup>



Age<sup>4</sup>



Gender



# Hunger, Health & Corruption

- Nearly half of children under five are malnourished; brains and body do not develop properly
- A government scheme to deliver cheap grain to the poor: two-thirds of the grain is stolen or adulterated
  
- India's Prime Minister, Narendra Modi is widely admired
- Some of his colleagues are crooks, thugs, rabble-rousers
- Corruption is debilitating for large and small businesses
  - Exists at all levels from ministers down to the street

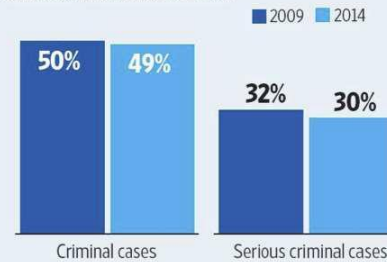
# Election Candidates' Profile: Maharashtra

- Criminal Background
- Education
- Finance
- Demographics
- Gender

## MAHARASHTRA POLLS: NUMBER OF RICH CANDIDATES INCREASES

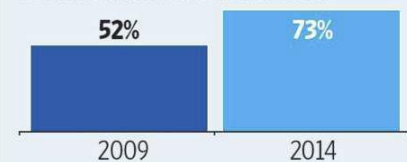
New data released by the Association of Democratic Reforms (ADR) suggests candidates of the five prominent parties—Congress, Bharatiya Janata Party (BJP), Shiv Sena, Nationalist Congress Party (NCP) and Maharashtra Navnirman Sena(MNS)— are becoming richer. While 52% of candidates from these parties were worth ₹1 crore or more in the 2009 assembly elections, this time 73% candidates of the candidates are so-called crorepatis. The overall percentage of such candidates in the assembly elections was at 47%. The data also show that the percentage of candidates with criminal backgrounds has come down slightly. Fifty percent of the candidates fielded by the five prominent parties had a criminal background in 2009; this time the figure is 49%.

### CRIMINAL BACKGROUND

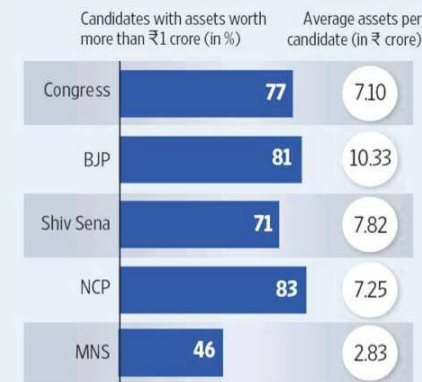


### FINANCIAL BACKGROUND

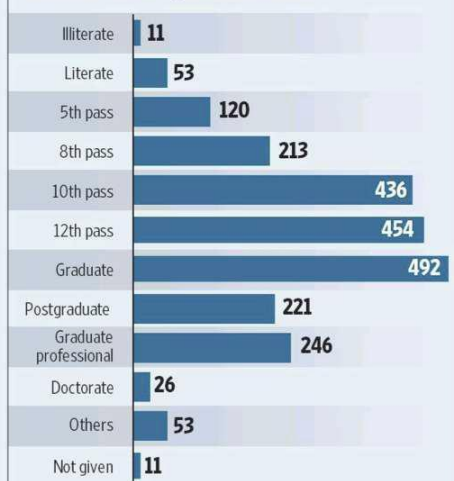
Candidates with assets worth more than ₹1 crore



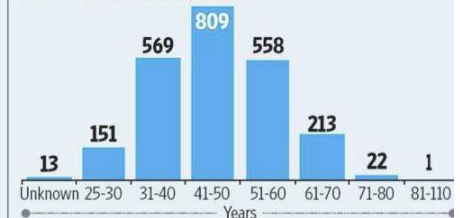
### PARTY-WISE BREAK-UP



### EDUCATIONAL QUALIFICATION



### AGE-WISE BREAK-UP



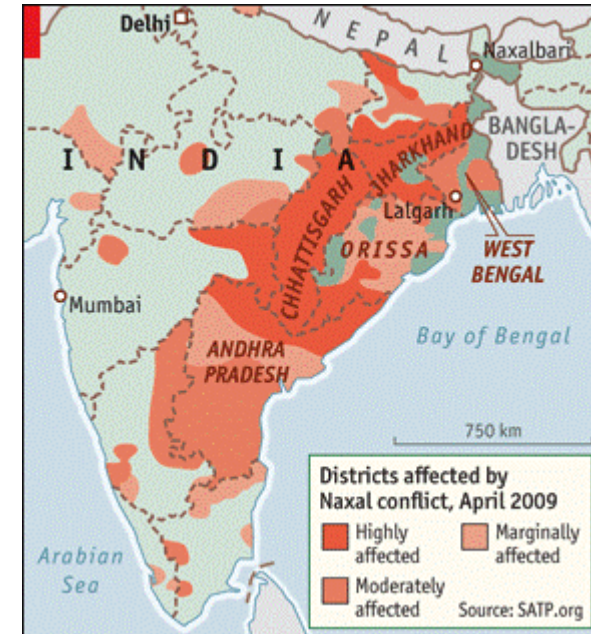
### GENDER-WISE BREAK-UP



Source: Association of Democratic Reforms (ADR)

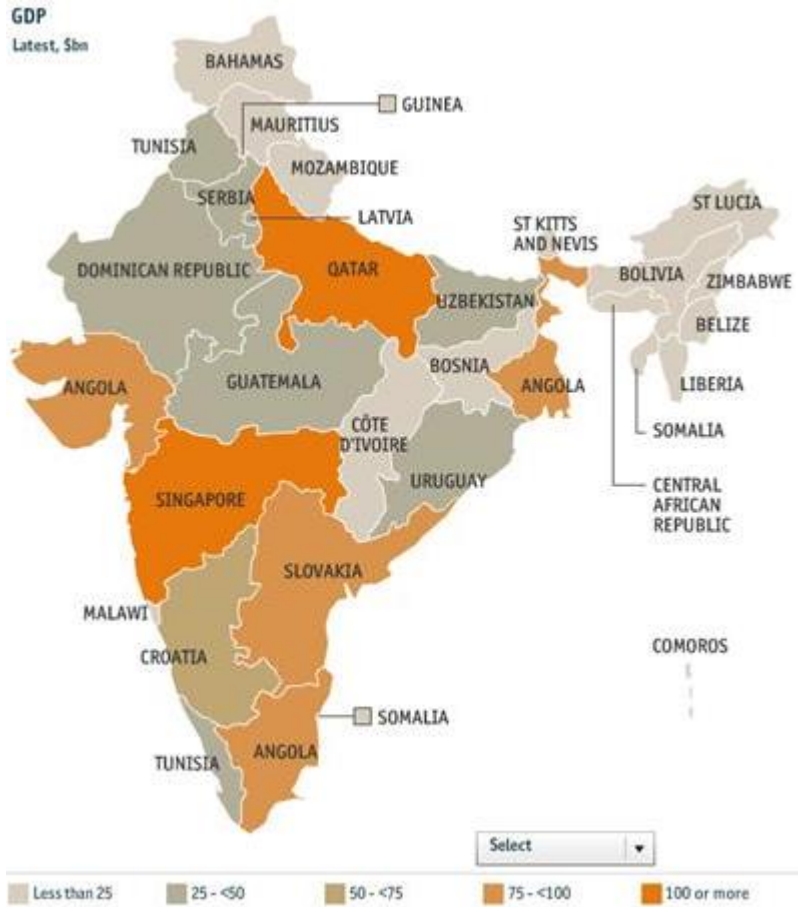
# Maoism, Political Populism

- About 200 of India's 640 districts are affected by a Maoism
- Mining and logging firms are seriously affected.
- Political populism demonizes business
  - Tata Motors dropped a plan for a factory in West Bengal after
  - Construction of a new road between Delhi and the Taj Mahal delayed

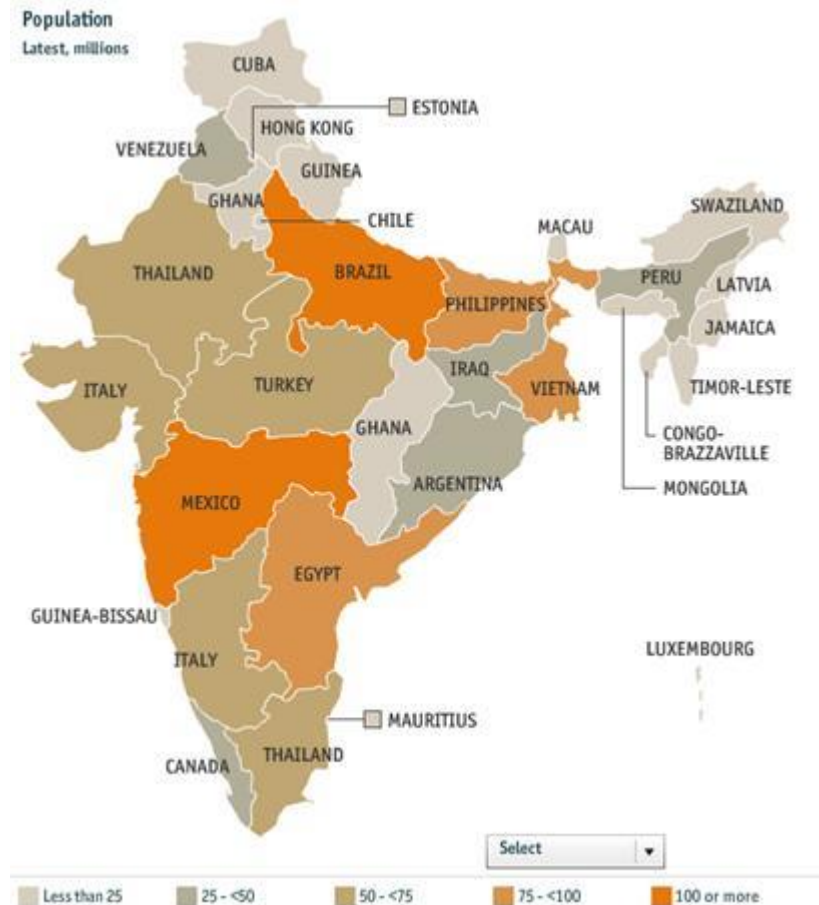
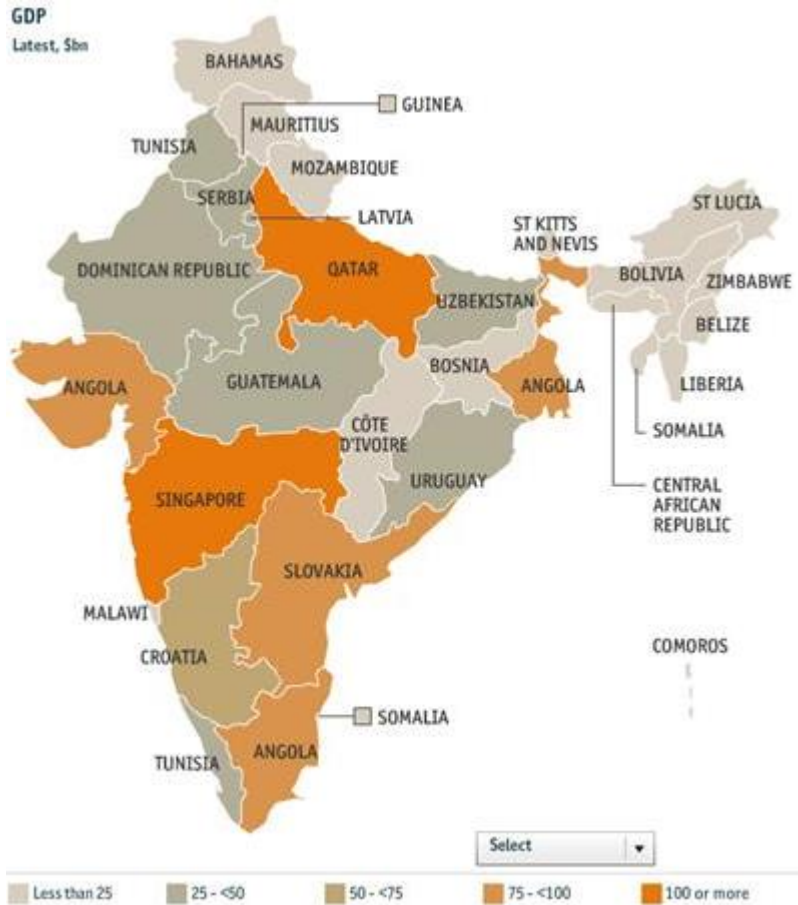




# GDP

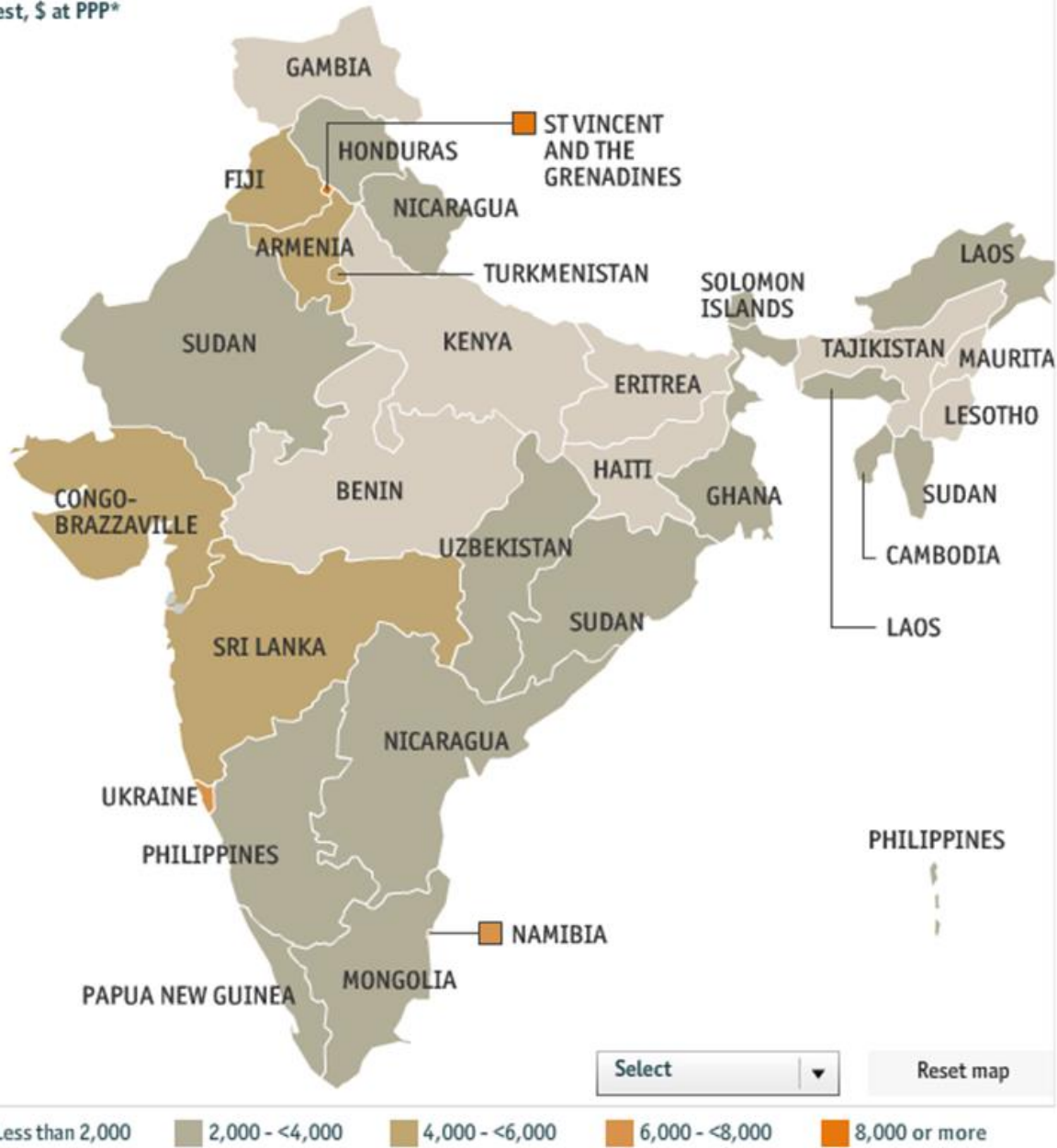


# GDP & Population



# GDP per Person

GDP per person  
Latest, \$ at PPP\*



# India Today

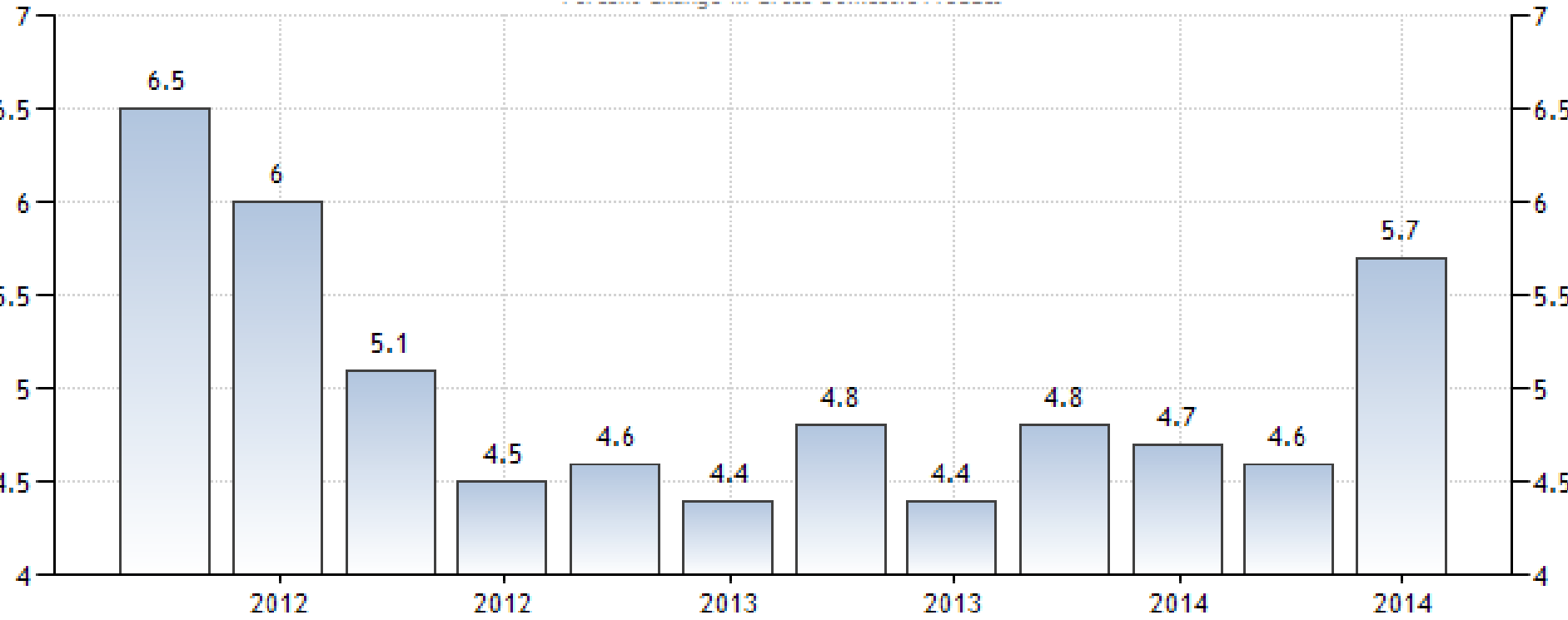
- Despite these shortcomings India has shown growth during the last decade
- India has momentum in its sails!

# Real GDP Growth: OECD

Table 0.1. Real GDP growth of Southeast Asia, China and India  
(annual percentage change)

	2012	2018	2014-18	2000-07
<b>ASEAN-6 countries</b>				
Brunei Darussalam	1.0	2.4	2.3	-
Indonesia	6.2	6.1	6.0	5.1
Malaysia	5.6	5.3	5.1	5.5
Philippines	6.8	5.9	5.8	4.9
Singapore	1.3	3.1	3.3	6.4
Thailand	6.5	5.3	4.9	5.1
<b>CLMV countries</b>				
Cambodia	7.2	7.1	6.8	9.6
Lao PDR	7.9	7.5	7.7	6.8
Myanmar	-	7.0	6.8	-
Viet Nam	5.2	6.0	5.4	7.6
<b>Average of ASEAN 10</b>	5.5(+)	5.6	5.4	5.5(**)
<b>2 large economies in Emerging Asia</b>				
China	7.7	7.5	7.7	10.5
India	3.7	6.1	5.9	7.1
<b>Average of Emerging Asia</b>	6.4	6.9	6.9	8.6

# GDP Growth Rate



# India Tomorrow

- India's GDP is expected to grow by 5.7 % this fiscal year
- India's economy will grow fivefold in the next 20 years
- The urban population will double from the 2001 census figure of 290 Million to 590 Million 2030

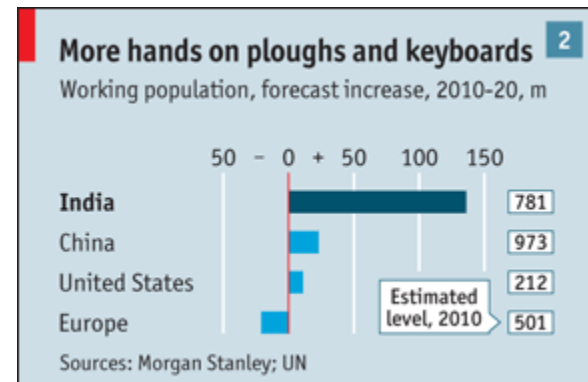
# Reasons behind optimistic forecasts

1. Demographic dividend
2. Domestic consumption
3. Economic reform
4. Democracy
5. Secularism
6. Global aspirations of Indian businesses
7. Entrepreneurship
8. Frugal innovation
9. Capital flow
10. Global growth momentum



# 1. Demographic Dividend

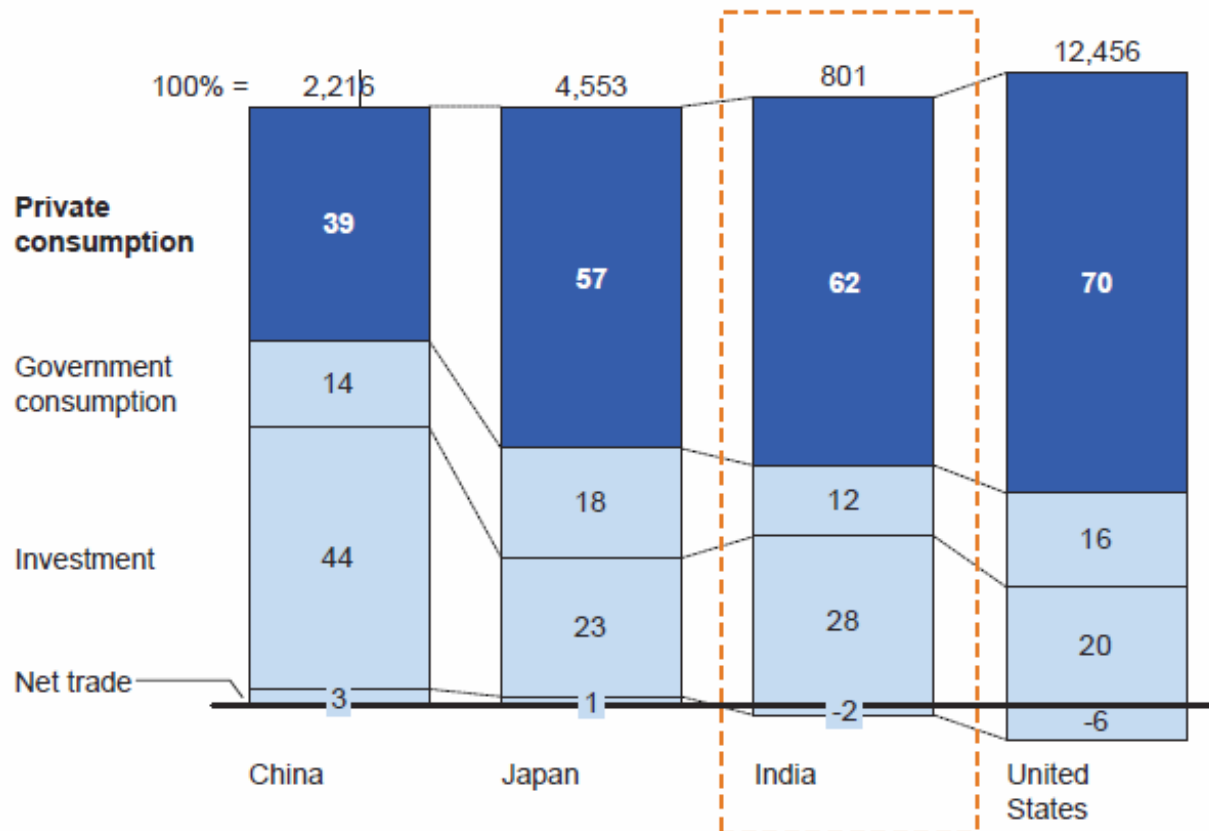
- Demographic Dividend
  - Indians are young
  - The proportion of Indians aged under 15 or over 64 has declined from 69% in 1995 to 56% this year
  - India's working-age population will increase by 136 Million by 2020
  - China's will grow by 23 Million
- However, skills gap is a huge burden to overcome



## 2. Domestic Consumption

### INDIA'S CONSUMPTION SHARE OF GDP IS CLOSER TO JAPAN AND THE UNITED STATES THAN IT IS TO CHINA

%, billion, nominal \$, 2005



Source: Global Insight; MGI India Consumer Demand Model, v1.0

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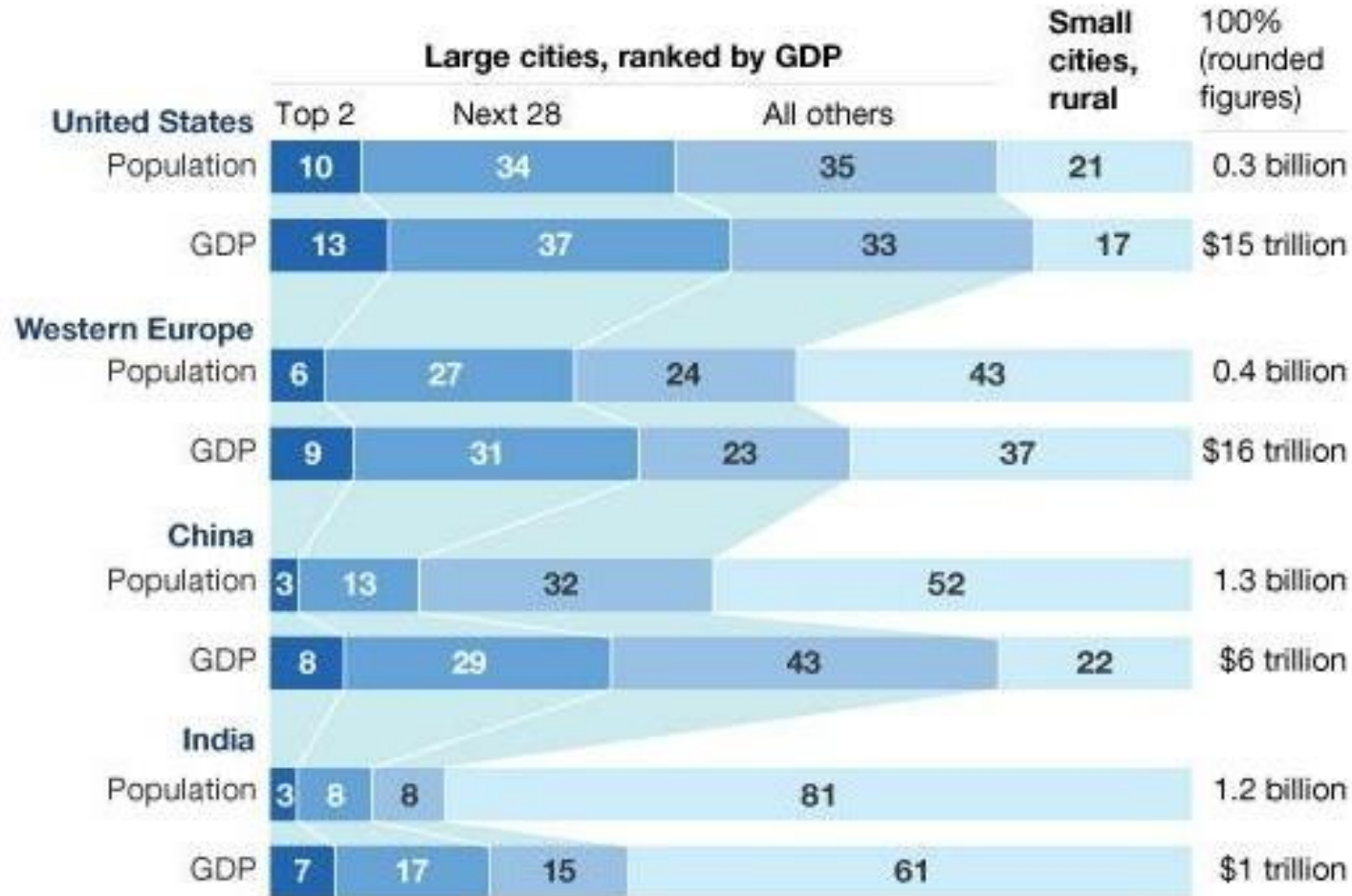
# Consumer spending to nearly quadruple by 2020

	Spending, 2010 (\$billions)		Spending, 2020 (\$billions)
Food <sup>1</sup>	328	→ 2.7x →	895
Housing and consumer durables <sup>2</sup>	186	→ 4.0x →	752
Transportation and communication	168	→ 3.9x →	664
Education and leisure <sup>3</sup>	71	→ 4.2x →	296
Clothes and footwear	59	→ 3.8x →	225
Health	49	→ 3.8x →	183
Other <sup>4</sup>	129	→ 4.4x →	570
<b>Total</b>	<b>991</b>	→ <b>3.6x</b> →	<b>3,584</b>

**Sources:** Euromonitor; National Sample Survey Office; BCG proprietary research with 6,300 consumers: BCG analysis.

## 2. Consumption & Urbanization

Cities segmented by contribution to total GDP, 2010, cumulative % of total<sup>1</sup>

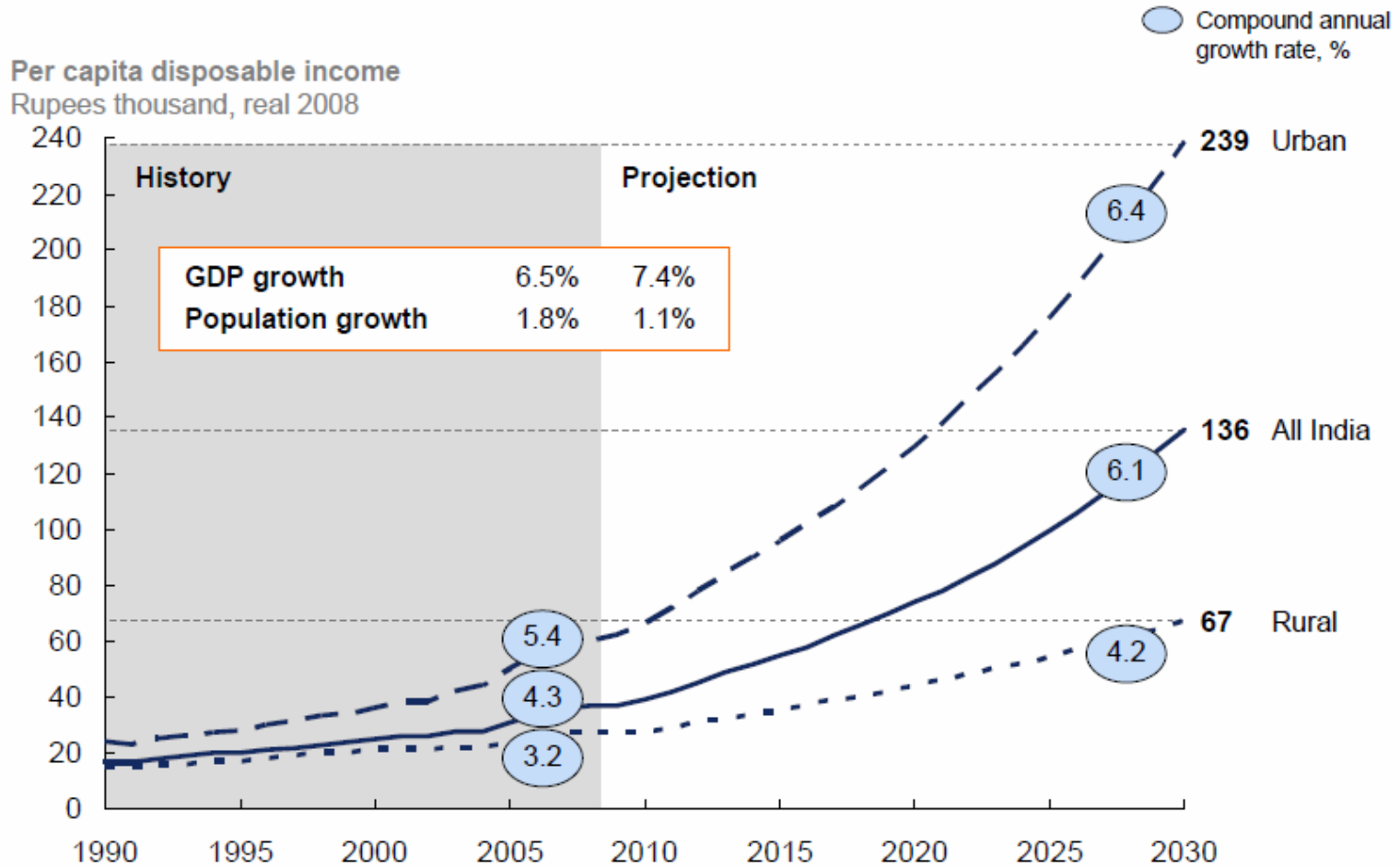


<sup>1</sup>GDP measured at real exchange rate; some figures may not sum to 100%, because of rounding.

Source: McKinsey Global Institute analysis

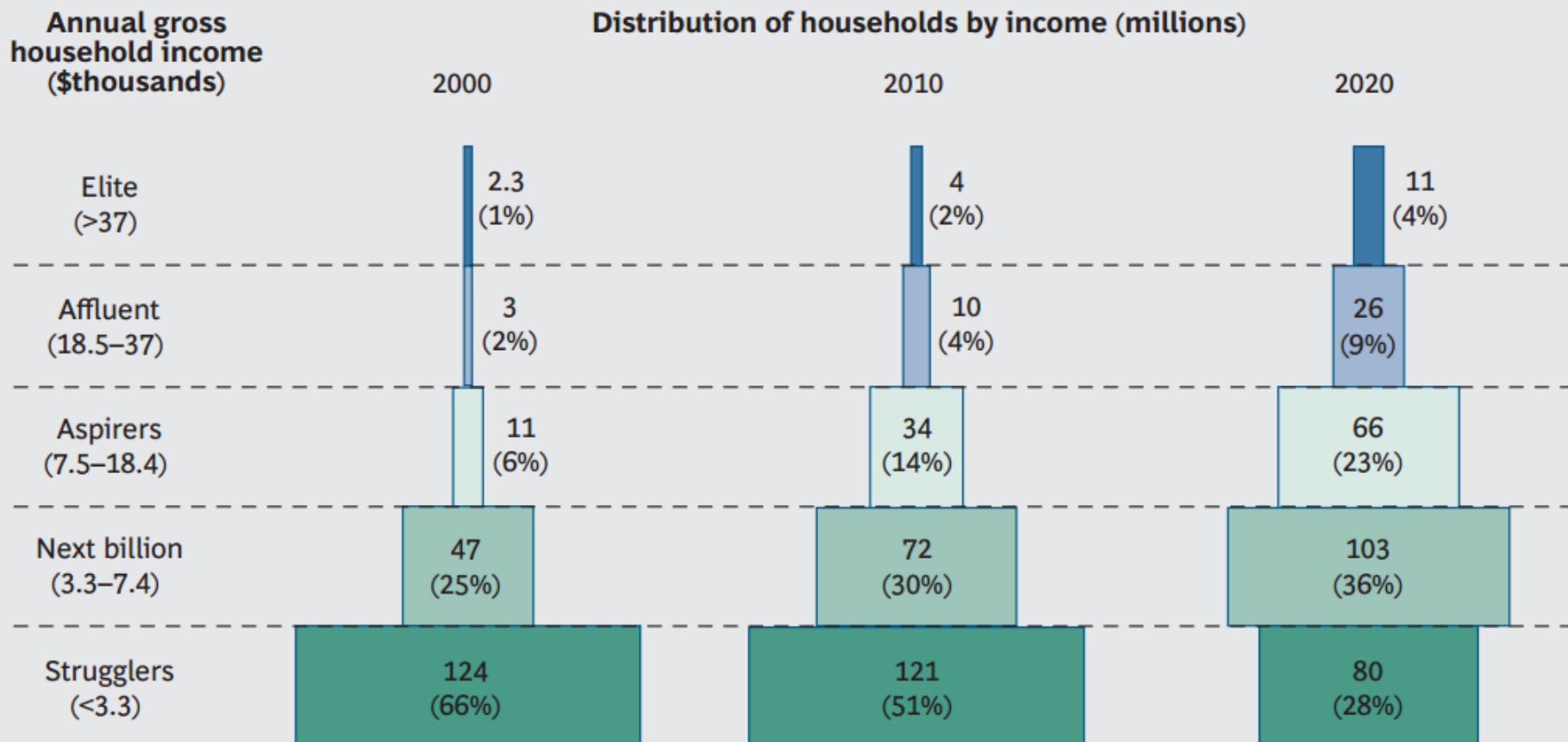
# 2. Consumption & Urbanization

Urban India will drive a near fourfold increase in average national income



SOURCE: India Urbanization Econometric Model; McKinsey Global Institute analysis

# Average household income will explode



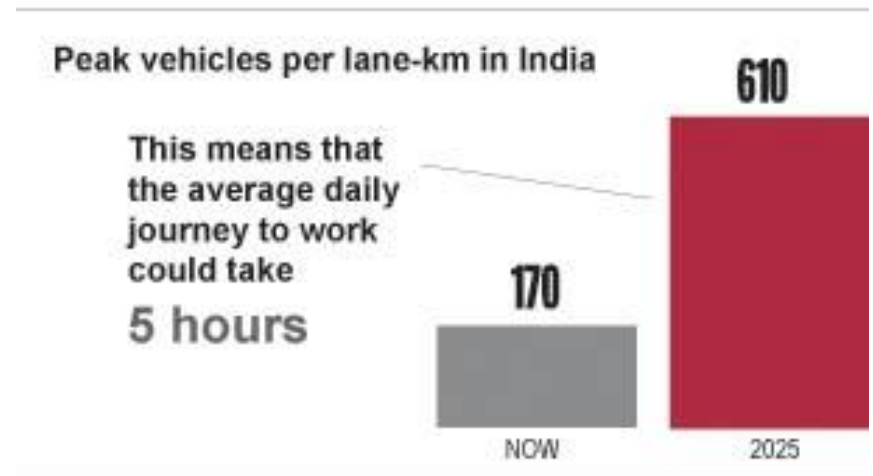
**Sources:** National Council for Applied Economic Research income models; Euromonitor; BCG income distribution adjustment model; BCG analysis.

# Urban Population

- New Delhi (capital)  
22.654 million
- Mumbai 19.744 million
- Kolkata 14.402 million
- Chennai 8.784 million
- Bangalore 8.614 million
- Hyderabad 7.837  
million

## 2. Consumption & Urbanization

- Domestic consumption
  - 70% of employment in cities by 2030
  - 91 million middle class households ; 22 million today
  - \$1.2 Trillion capital investment needed for cities
- Today consumer market ranks twelfth in the world
- By 2025, fifth largest in the world
- Limited Resources—Food, Water, Commodities





# 3. Economic Reform

- Economic reforms
  - Tariff ramparts have been torn down
  - The “License Raj”, a protectionist system has been sidelined
  - Indian firms have global competition
  - Unleashed entrepreneurial energy
  - Exports up!



# 4. Democracy

- Indian democracy is different
  - Electorate of more than 800 Million people
  - Poverty, massive illiteracy and diversity on a sub-continental scale does not deter democracy
  - India's democracy based upon on pluralism
  - India's democracy is not premised on the standard nationalist invocation of a shared history, a single language and an assimilationist culture

## INDIAN PARLIAMENTARY ELECTIONS BY THE NUMBERS

### VOTERS



**814 million** eligible voters

More than the entire population of Europe



**1 voter**  
In the smallest polling station located in a remote area of the western state of Gujarat



**100 million** new voters

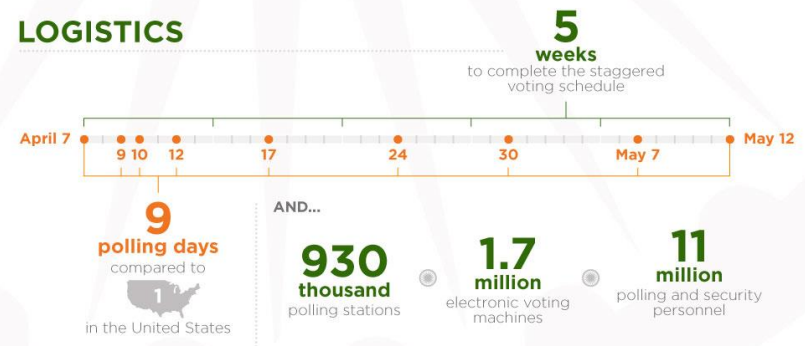
About a third of the United States population



**23 million** first-time voters 18-19 years old

About the population of Australia

### LOGISTICS



SOURCE: Election Commission of India, Centre for Media Studies

## 2014 Elections

**814.5 MILLION** VOTERS (2014) COMPARED TO **713 MILLION** IN 2009

TOTAL NUMBER OF FIRST TIME VOTERS OVER **23 MILLION** (2014)

FIRST TIME VOTERS CONSTITUTE **2.88 PERCENT** OF TOTAL ELECTORS (2014) AGAINST **0.75 PERCENT** IN 2009

APPROXIMATELY **930,000** POLLING STATIONS (2014) COMPARED TO **830,866** IN 2009.

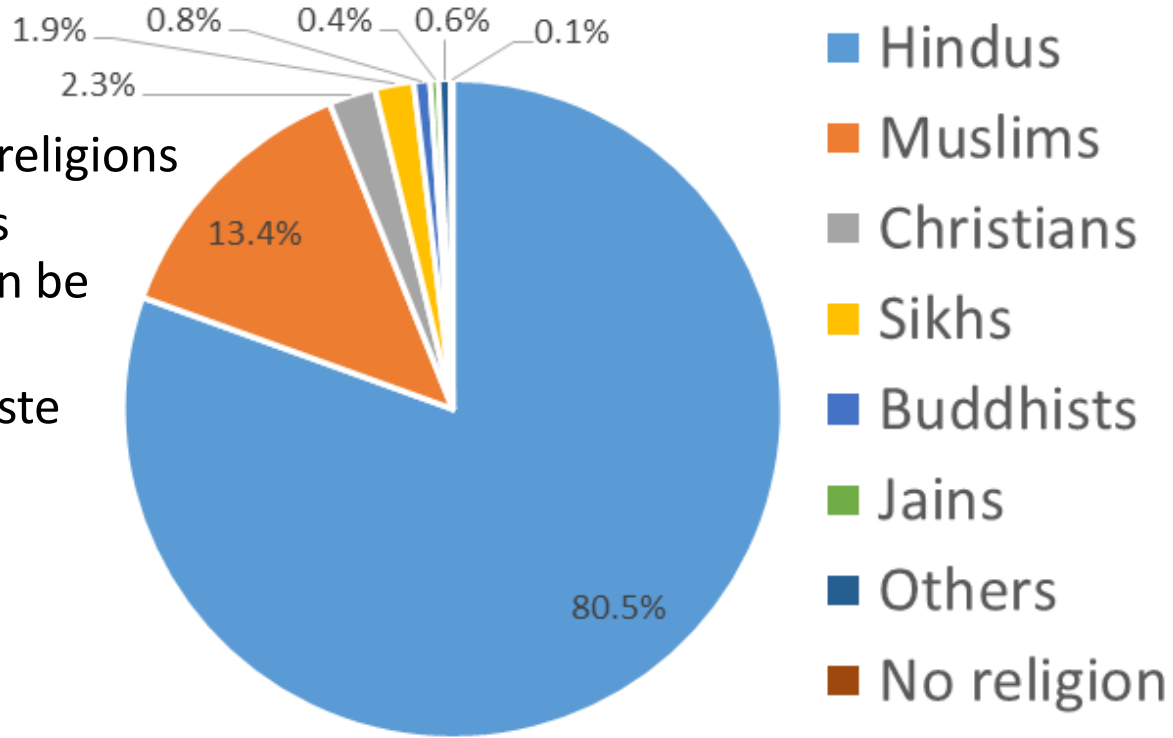
AROUND **FIVE MILLION** POLLING PERSONNEL AND CIVIL POLICE FORCES ARE ENGAGED IN CONDUCTING THE ELECTIONS.

# Transfer of Power

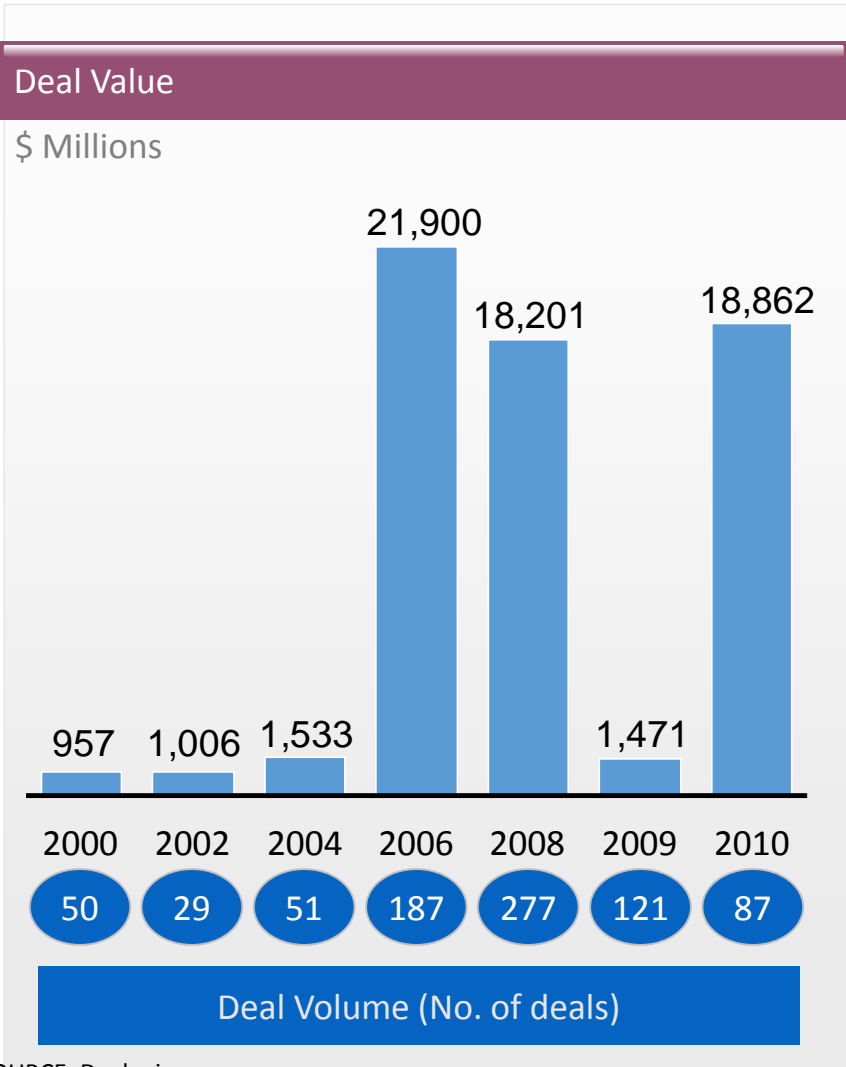


# 5. Secularism


- India's secularism is different
  - It does not neutralize religions
  - It treats all religions as "equidistant" so all can be celebrated
  - Religious/linguistic/caste differences are being marginalized



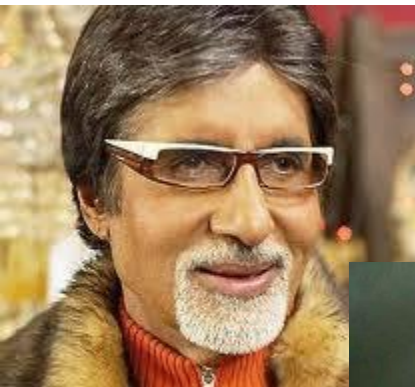
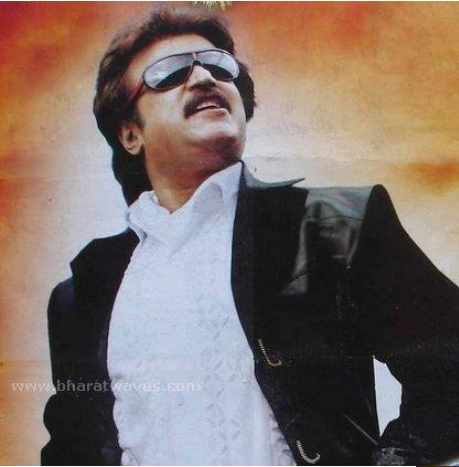
# 6. Global Aspirations



SOURCE: Dealogic  
Upto May 12, 2010

 	\$12,983 Mn
 	\$10,700 Mn
 	\$5,731 Mn
 	\$2,624 Mn
  	\$2,300 Mn
 	\$1,794 Mn

# More people see Bollywood movies than Hollywood movies



## 7. Entrepreneurship

## 8. Frugal Innovation

- India's economy driven by 45 Million entrepreneurs
- Primary focus is domestic consumers
- Indian "Frugal Innovation" oblige "Bottom of Pyramid"
  - Safe drinking water filter no power @ \$0.65/mo; a \$35 laptop
  - Suspension bridges for 1/10 the price
- Tata Motors is selling its "people's car" for \$3,000
- GE's Indian arm offers a medical ECG machine for \$400
- Bharat Biotech sells a single dose of its hepatitis B vaccine for 20 cents
- Bharti Airtel provides one of the cheapest wireless telephone services in the world.





## 8. Indianization of products

**NEW SAUCY WRAPS**  
STARTS AT ₹ 49\*

KHAAYEGA TOH DIL GAAYEGA

Aloo Wrap  
Egg Wrap  
Grilled Chicken Wrap

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## 8. Indianization of products



## 8. Indianization of products





# Local Players Lose their Shine

Local brands like Vicco, Ajanta, Anchor, Smyle and Baidyanath among others slipped to 2% in 2013

Two years ago they had over 5% share

Cos like Colgate, Dabur and HUL have widened their rural reach

Indian firm, Dabur has 11% market share

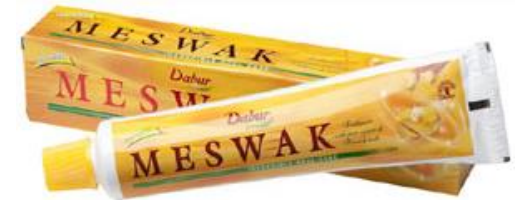
Dabur's Red toothpaste is fastest-growing brand in the oral-care market with 17 annual growth rate

It has a 50% adoption rate among first-time users against industry average of 35%

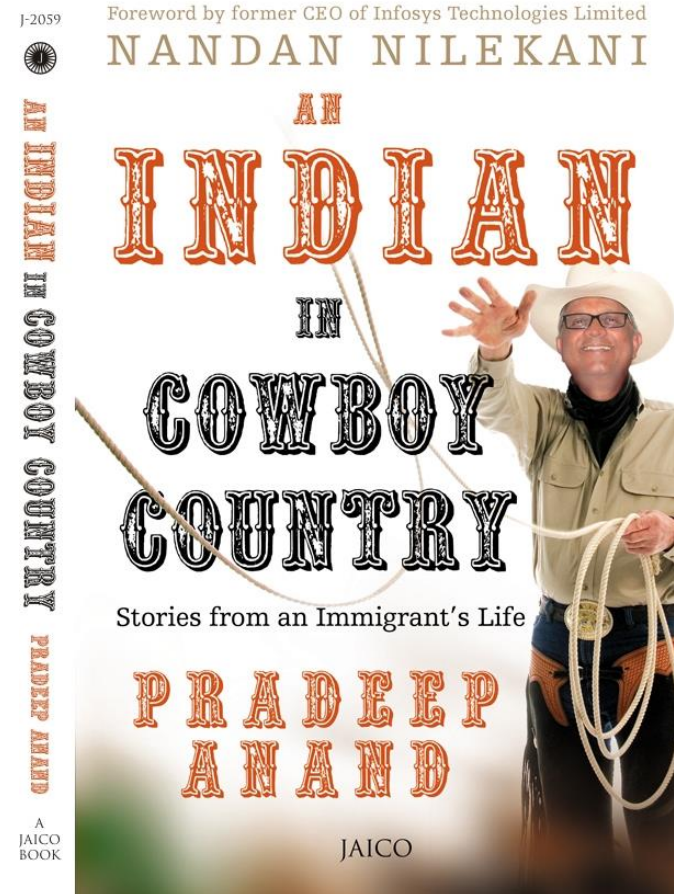
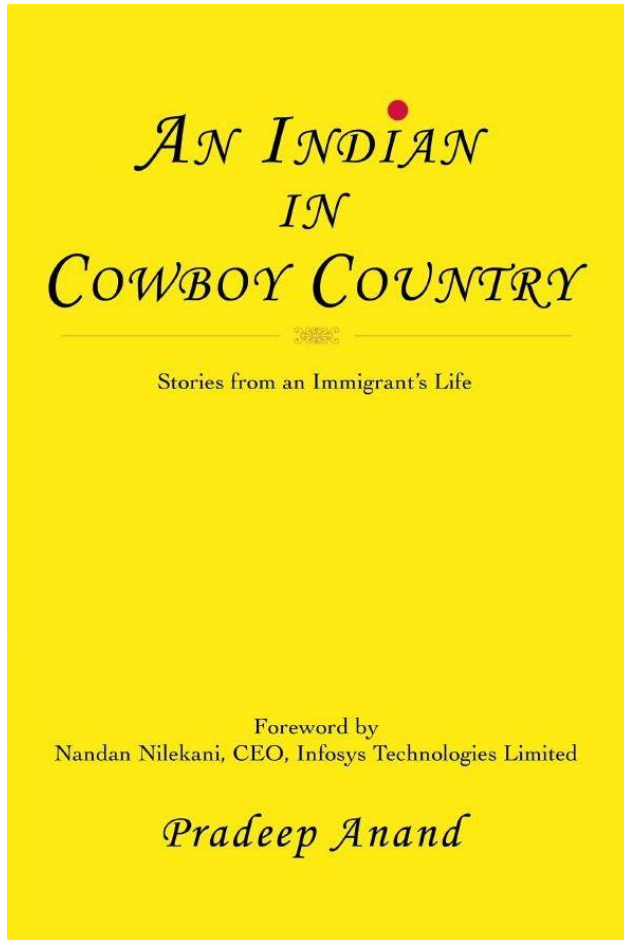
Entry of GSK and P&G also affected the small regional brands

Colgate's share rose to 54% last year, from 51% in 2011

GSK's Sensodyne leads the sensitive toothpaste category with 27% market share



# 8. Indianization of products



## 9. Investments/Capital Flow 2013

- Globally \$1.46 trillion, with the lion's share going to developing countries
- India ranked 16; USA ranked 1
  
- FDI flows into India grew 17 per cent in 2013 to \$28 Billion
  - 1990 <\$1 Billion
  - 2010 \$45 Billion
  - 2011 \$51 Billion
- The sectors that attracted higher inflows:
  - Services
  - Telecommunication
  - Construction activities
  - Computer software and hardware

# 10. Global Growth Catalysts

- Economic Growth
  - Resources—People, Food, Materials, Energy, Air, Water
  - Productivity—Technology/Innovation
  - Capital—Create, Invest, and Gain Returns
- Government
- Trade
- Health, Education, Entertainment
- The Planet Earth



# 10. Global structural changes in the 20<sup>th</sup> Century

- Political: Royalty/Empires → Democracy and Countries
- Enfranchisement: White males only → Anyone, 18 years or older
- People Binder: Religion → Culture
- Commercial Language: European languages → English
- Distance Travel: Ships/Rail → Air/Space
- Local Travel: Carriage/Rail → Automobile
- Health: High Mortality Rate → Low Mortality Rate
- Education: Private education → Public education
- Education: Personal → Distance
- Edutainment, the merger of entertainment and education
- Entertainment: Live Theaters → Media → On-demand, personalized interactive content

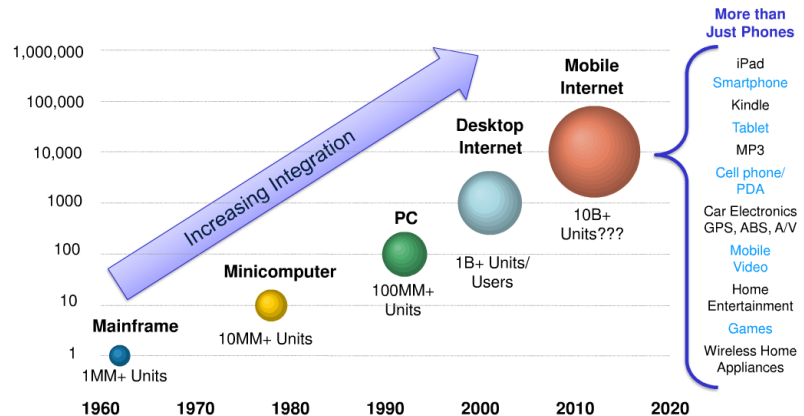
# 10. Global structural changes in the 20<sup>th</sup> Century

- Industry: Craftsmanship → Mass production
- Workers: Physical → Knowledge
- Workplace: Centralized → Distributed
- Workplace Demography → Men/Women equalization
- Commerce: Brick & Mortar → eCommerce
- Population → 1 Billion (1810) → 7 Billion (2011)
- Opportunities: Western Europe → Europe/USA → Asia
- Economic System:
  - Imperialism → Capitalism
  - Money: Precious Metals → Currency → Credit Cards/Bits & Bytes
- Closed Economies → Globalization

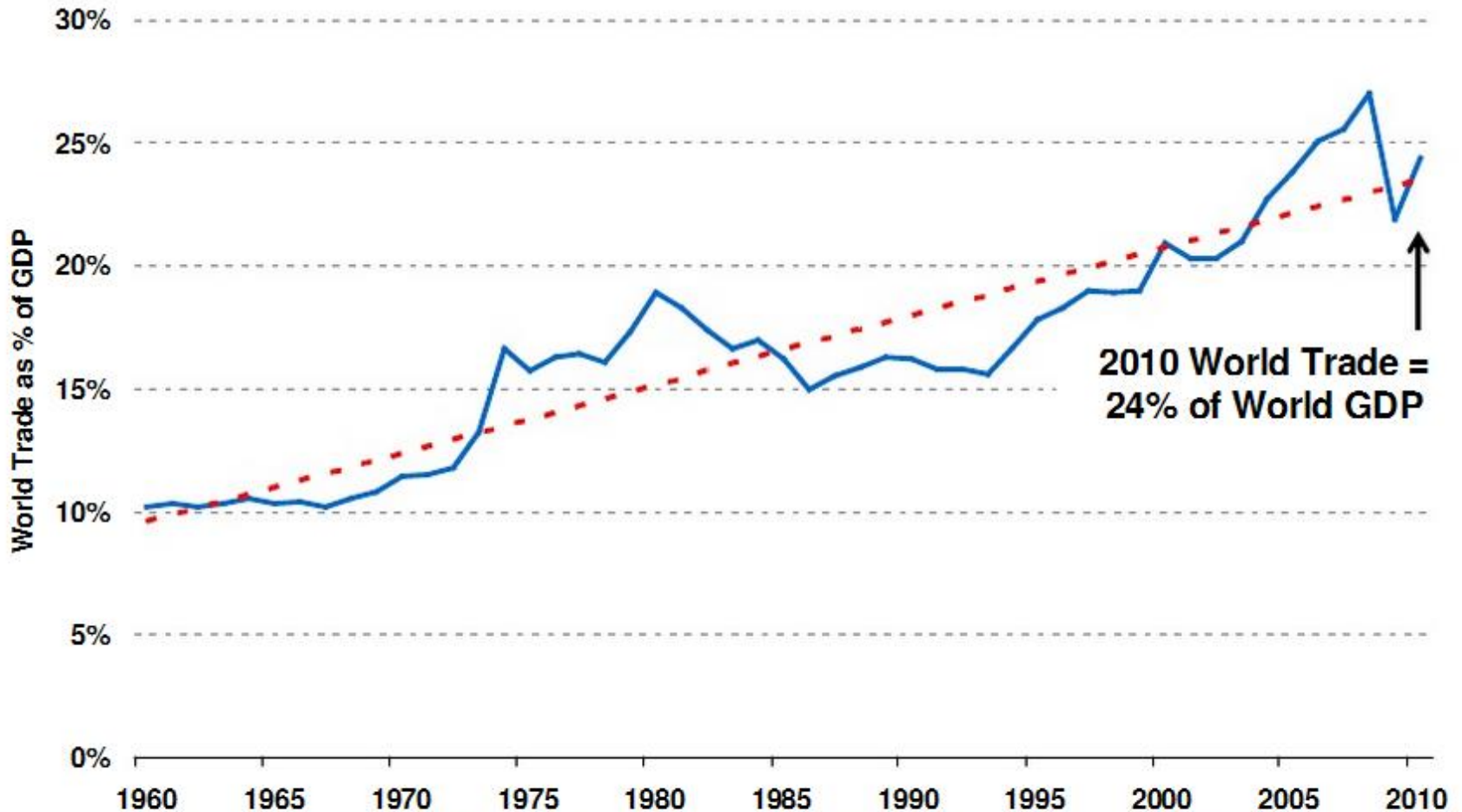
# 10. Global structural changes in the 20<sup>th</sup> Century

- Fuel: Vegetable/Animal Fat, Coal → Coal/Petroleum/Natural Gas/Nuclear
- Environment: Cities (sewage/manure) → Global (CO<sub>2</sub>)
- Materials: Natural → Synthetic → Composites

- Communication: Letters/Telegraph → Landline → Telephone/Internet → Smartphone



# World Trade as % of World GDP 1960-2010



Note: World trade calculated as the sum of all countries' imports (or exports). The biggest trading partners of USA includes EU nations, Canada, China, Mexico, Japan and South Korea. Source: Trade data per World Trade Organization (WTO), GDP data per United Nations (UN).

# 10. Unstoppable global momentum

- More growth from emerging markets than the developed ones, new middle-class consumers, innovations
- Major productivity innovations in the G8 world accelerate global economies
- Resource productivity, clean-tech industries
- Complex flows of capital, goods, information, large-scale interactions, new business models, accelerating the pace of innovation, more economic volatility

# 10. Global Economy: A Complex Adaptive System

- A dynamic network of many agents (cells, species, individuals, firms, nations) acting in parallel, constantly acting and reacting to what the other agents are doing
- Control tends to be highly dispersed and decentralized
- Coherent behavior in the system arises from competition and cooperation among the agents themselves
- Overall behavior of the system is the result of a huge number of decisions made every moment by many individual agents

# Summary: India Tomorrow

- Growth Drivers
  - Demographic dividend
  - Domestic consumption
  - Economic reform
  - Democracy
  - Secularism
  - Global aspirations of Indian businesses
  - Entrepreneurship
  - Frugal innovation
  - Investments/Capital
  - Global growth momentum
- Potholes, Roadblocks & Detours
  - Skills development
  - Education
  - Hunger
  - Health
  - Education
  - Infrastructure
  - Urbanization
  - Maoism
  - Corruption
  - Political populism

# Summary: India

- Yesterday was tragic
- Journey to today, despite slow start and detours, confirms promise of the future
- Tomorrow can be spectacular but with potholes, roadblocks and detours



Thank you

India:

Yesterday, Today, Tomorrow

Pradeep Anand

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