

# Jobs, Skills and Education

## **FUTURE OF JOBS**



# WHO IS BEING EDUCATED FOR THE FUTURE ECONOMY? (Probably Not You!)



## JOBS AT RISK OF AUTOMATION

POSITION	PROBABILITY OF AUTOMATION
Loan officers	98%
Receptionists/clerks	96%
Paralegals/legal assistants	94%
Retail salespersons	92%
Taxi drivers/chauffeurs	89%
Security guards	84%
Cooks/fast food	81%
Bartenders	77%
Personal financial advisers	58%
Computer programmers	48%
Reporters/correspondents	11%
Musicians/singers	7.4%
Lawyers	3.5%
Elementary school teachers	0.4%
Physicians/surgeons	0.4%

# Scenario in India

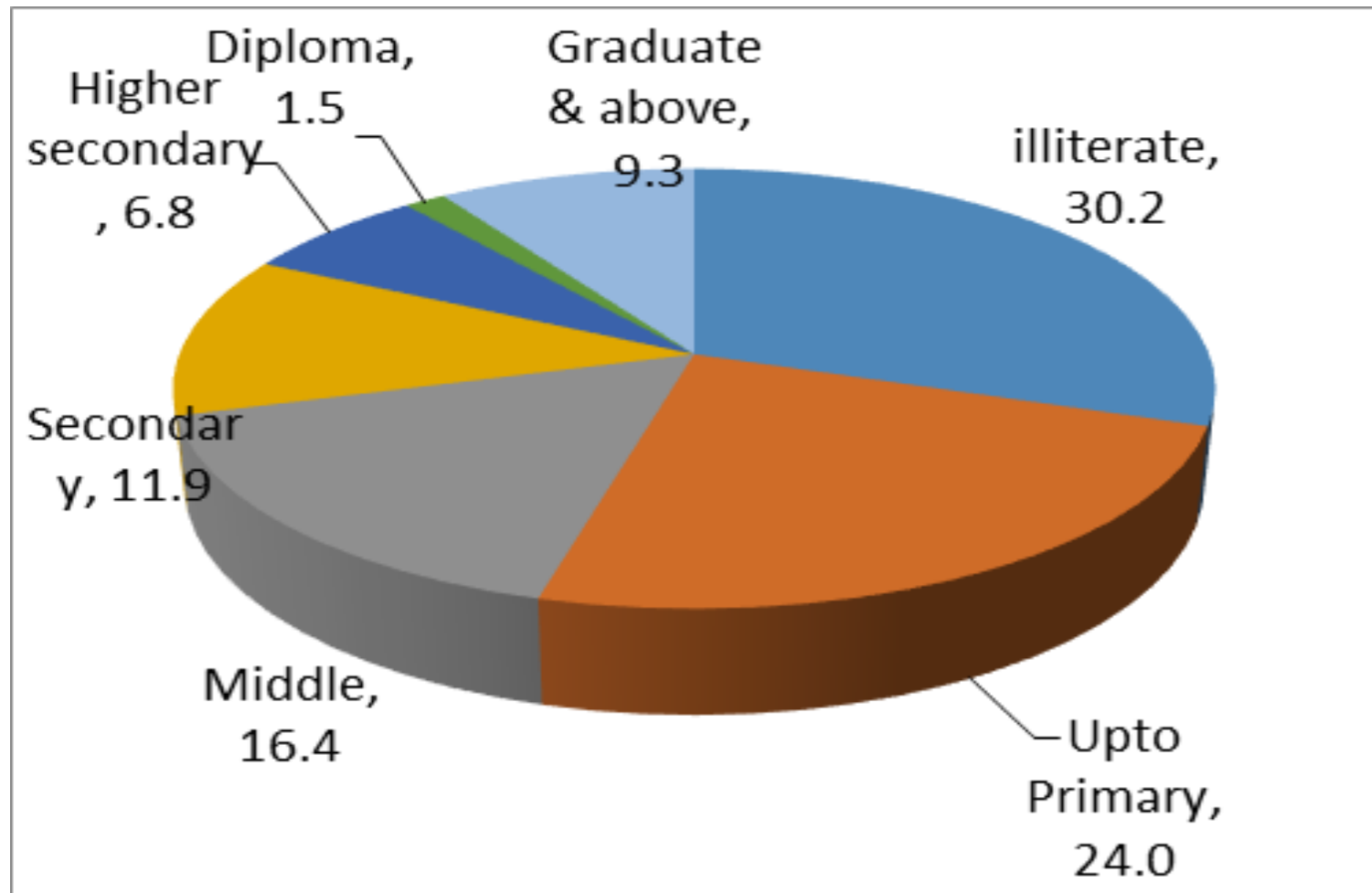
India: Youngest workforce in world with median age of 27 years.  
vis a vis China's 37 years.

Largest Human Resource Capital of the world.

Age Above	1971	2011	2022
0-14 yrs.	42.1%	30.7%	24.5%
15-59 Yrs.	52.8%	60.3%	65.9%
60 & above yrs.	5.2%	8.9%	10.3%

High ratio of working to dependent population- Demographic Dividend

# Education Profile of Labour Force in India (%)



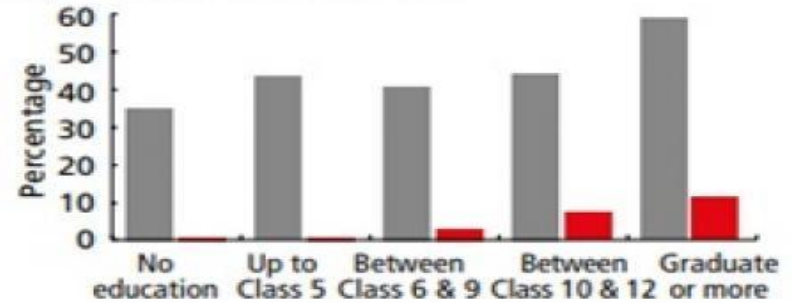
**Educated most unemployed** | Unemployment rate among graduates was 13.17 per cent in September-December 2018, up from 10.39 per cent in May-August 2017

■ LPR % ■ UER %

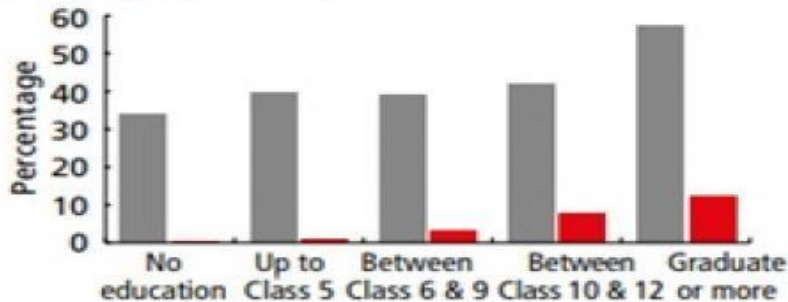
**May-August 2017**



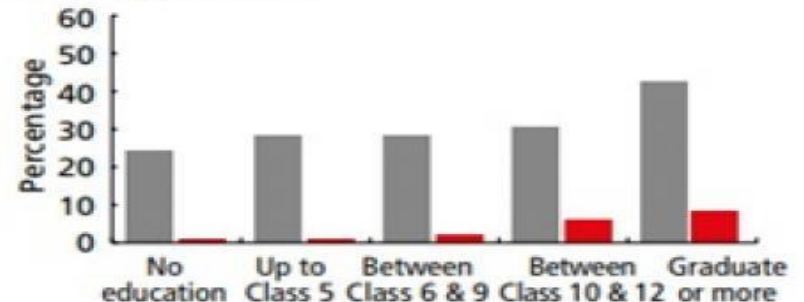
**September-December 2017**



**January-April 2018**



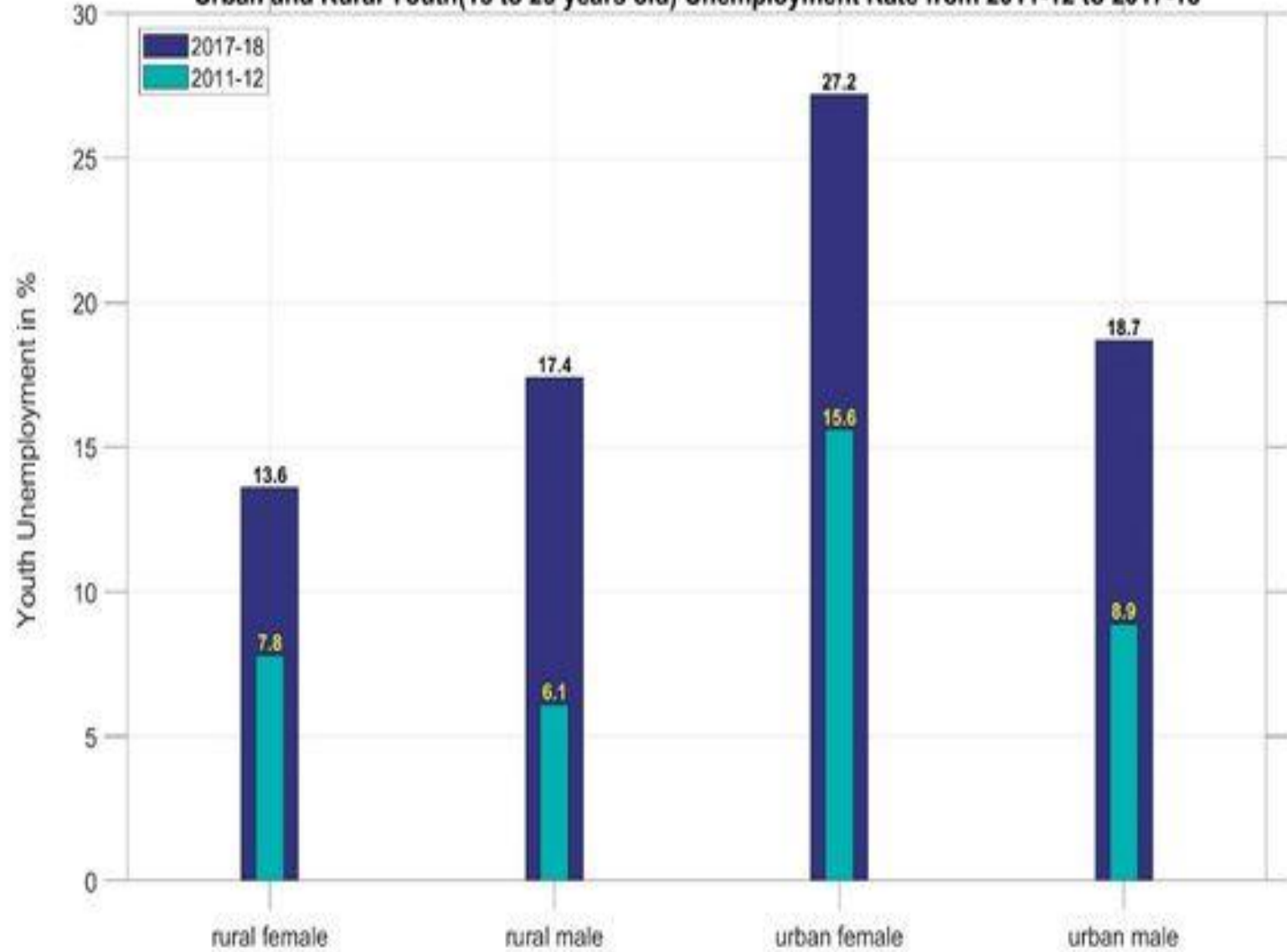
**May-August 2018**



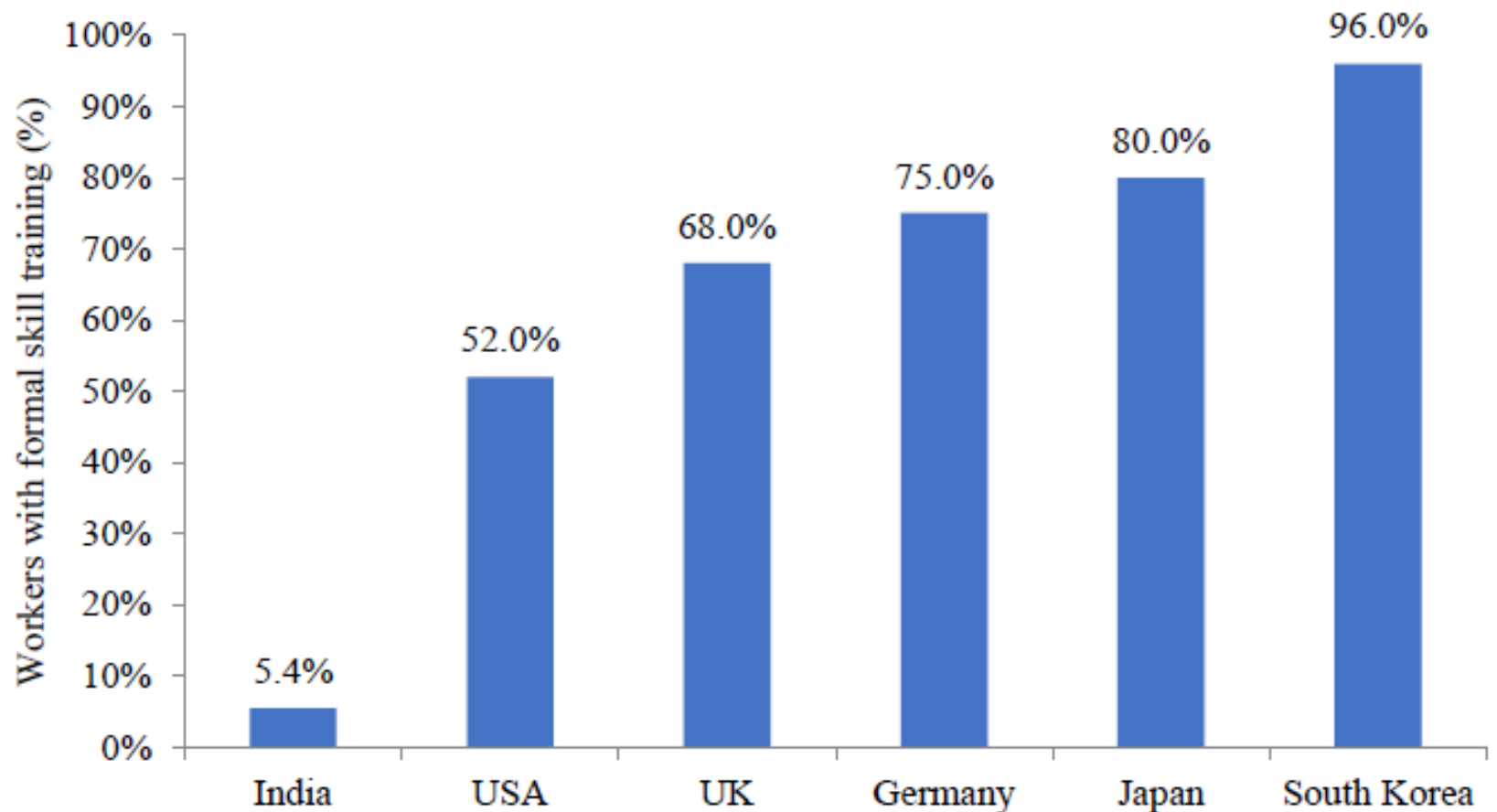
**September-December 2018**



Urban and Rural Youth(15 to 29 years old) Unemployment Rate from 2011-12 to 2017-18

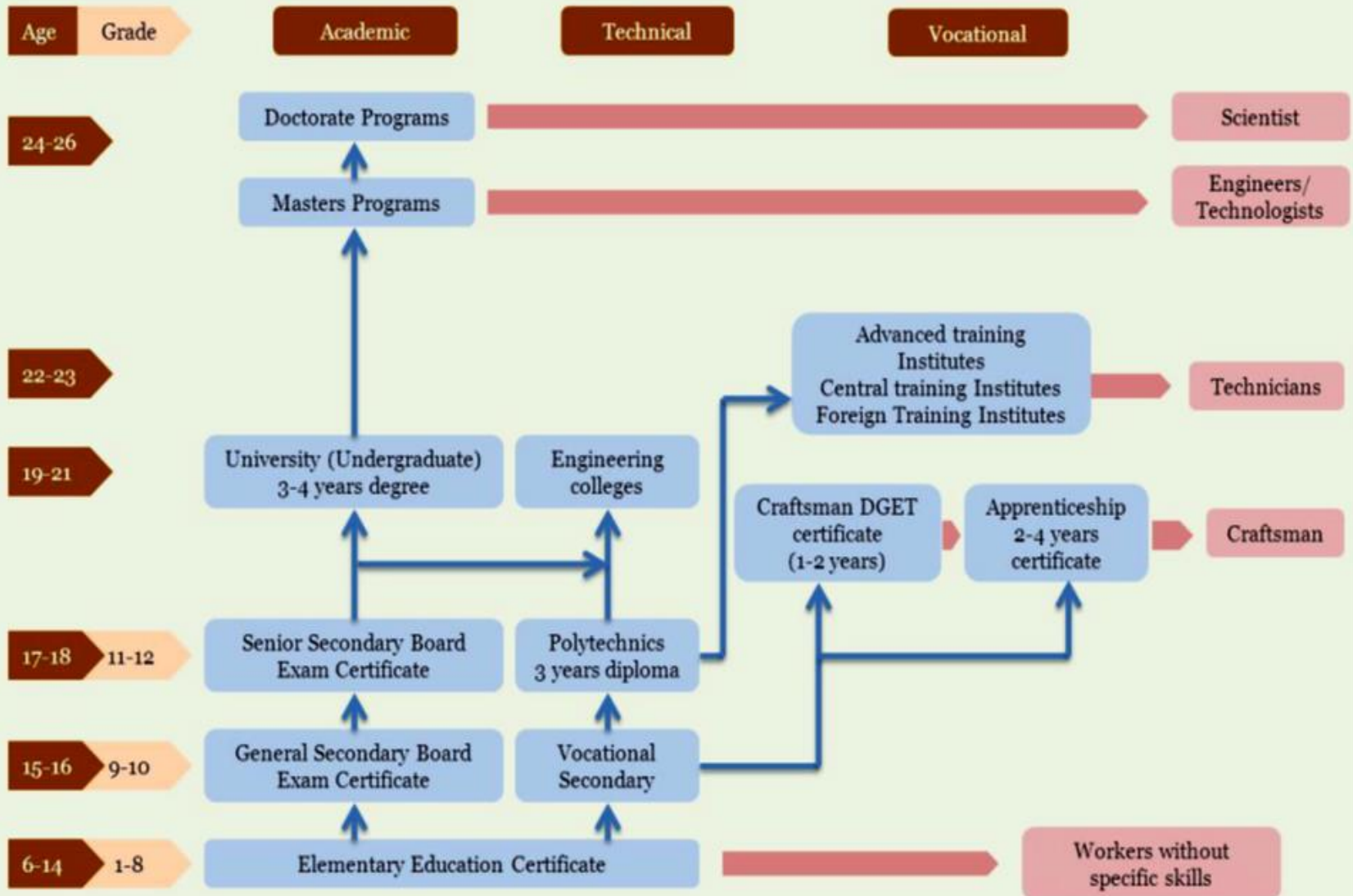


# Workforce that has undergone formal skill training



Source: National Skill Development Policy

# India's Education and Skill Development Structure



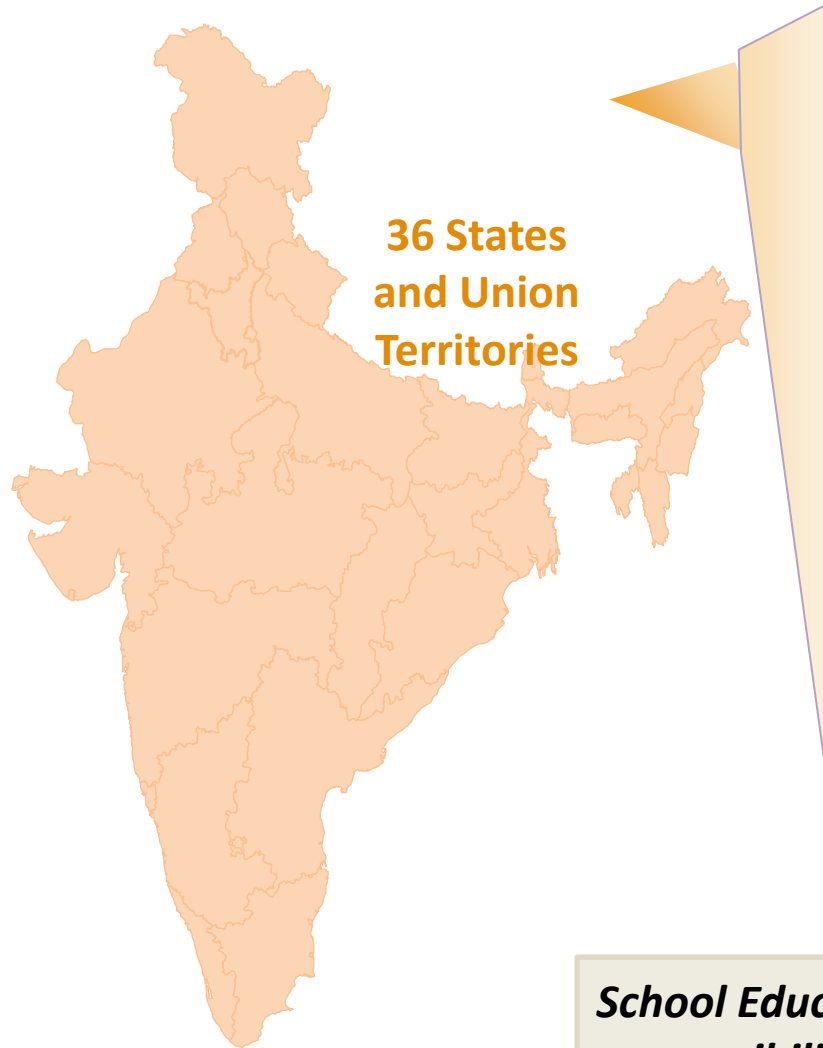




Skills development has a long way to go in India, we all have to collectively take it forward.

**SKILLING SCENARIO IN INDIA**

# Overview of India's Education Sector



## Rapidly growing economy with a very young population...



- Population: **1.32 BN**<sup>1</sup>, with ~**54%** of the population below 25 years of age<sup>2</sup>
- GDP: **7th highest** in the world with a **7.1%** growth rate<sup>3</sup>
- Average per capita income: USD ~**6,500** (PPP)<sup>3</sup>
- Literacy Rate: **73%**<sup>4</sup>

## ...with the world's largest school education system



- **1.52 MN** schools<sup>5</sup>
- **260 MN** students (~200 MN students enrolled in elementary grades)<sup>5</sup>
- **8.7 MN** teachers<sup>5</sup>

***School Education is a concurrent subject with joint responsibility of the Centre and the State government***

# India's Education Story: What has happened?

There has been significant improvement in enrolment and key inputs over the last few decades

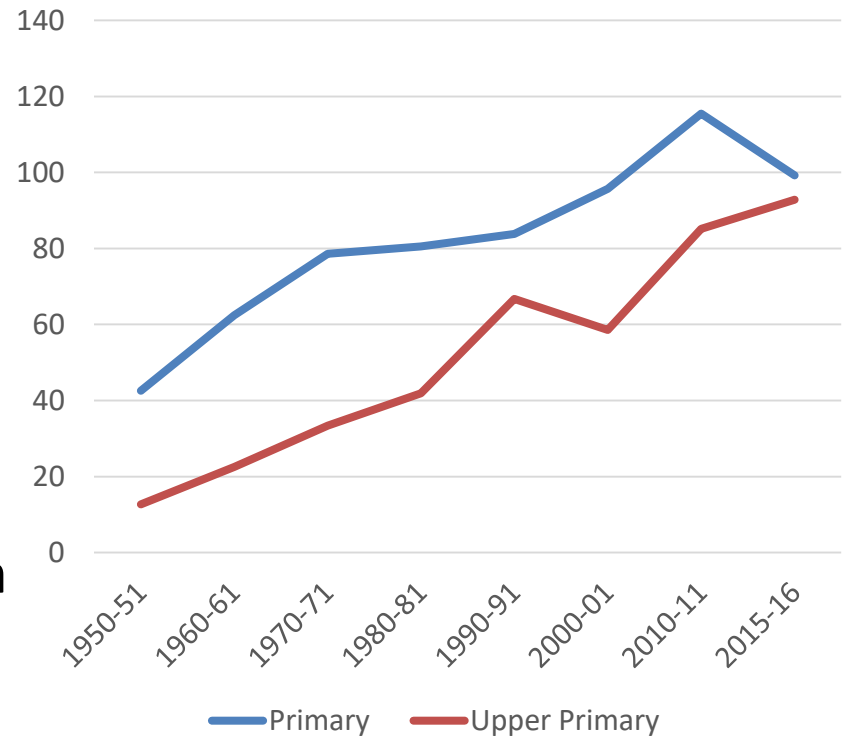
## □ Enrolment:

Increasing enrolment with **~99%** Gross Enrolment Ratio (GER) at primary level and **~93%** upper primary GER (2015-16)<sup>1</sup>

## □ Human Resource:

Pupil-Teacher Ratio reduced from **36** in 2005-06 to **24** in 2015-16<sup>2</sup>

Gross Enrolment Ratio trends



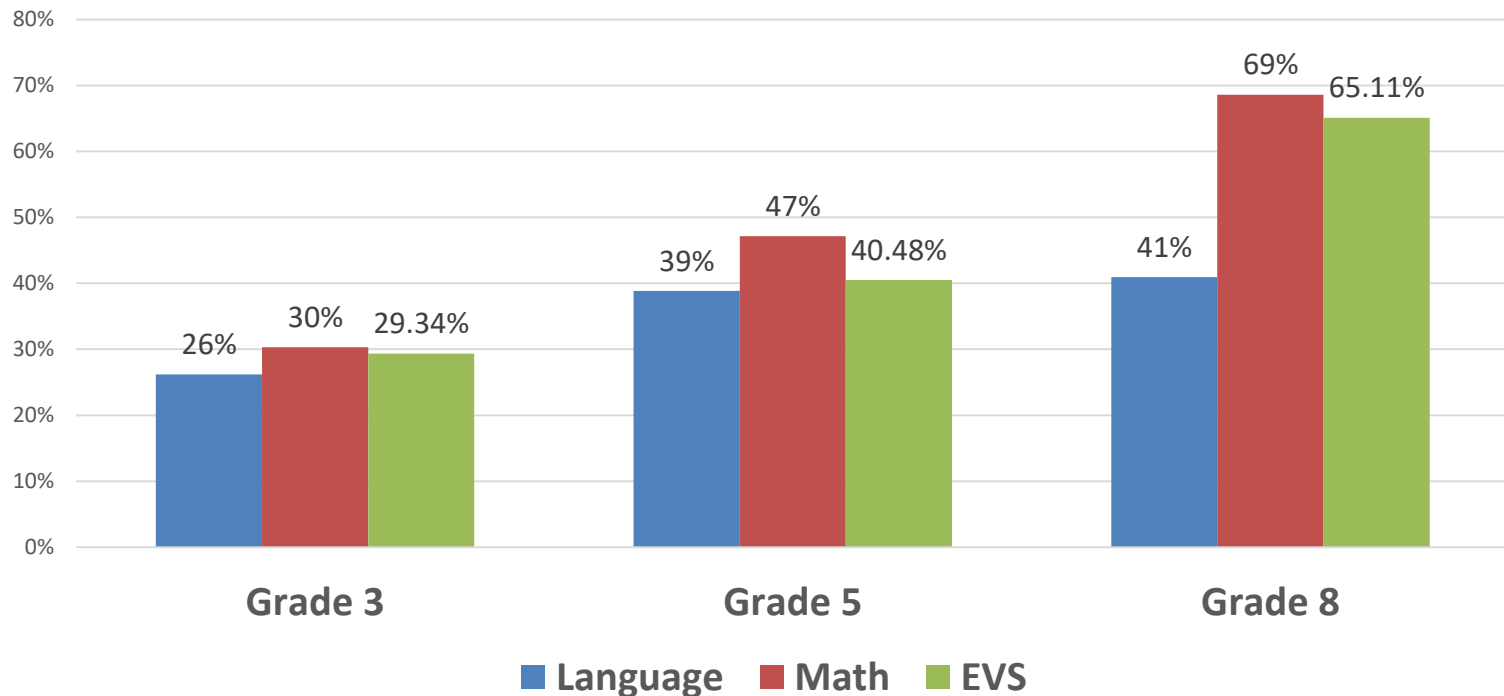
1. The Gross Enrolment Ratio (GER) for a class-group is the ratio of the number of persons in ' of persons in the corresponding official age-group. Source: 1.MHRD Educational Statistics at a

2. U-DISE 2015-16

# India's Education Story: Learning outcomes?

According to NAS 2017 results, a significant % of students are scoring <50% marks

Percentage of students scoring <50% marks by grade and subject (NAS 2017)



# New Education Policy 2019-I

- Early childhood care and education (**ECCE**) as part of the Foundational stage of schooling.
- Creating **School Complexes** to share resources
- **Teacher Management** – Not to be deployed for non-teaching activities during school hours
- **Curriculum & Pedagogy-**
  - Reduce curriculum content to enhance essential learning and critical thinking; Flexibility in course choices
- National Mission on Education through **ICT**
- **Education Management** – Policymaking, Operations and Regulation to be separated

# New Education Policy 2019-II

- **Multiple exit and entry options** for students from secondary stage till UG/PG/Research
- Integration of **vocational education** in all educational institutions
- Integrate humanities and arts with Science, Technology, Engineering, and Mathematics
- Institutional Framework for Education
  - National Education Commission(NEC) with PM as Chair
- Focus on high-quality research
  - National Research Foundation
- Central Educational Statistics Division (CESD) as an independent autonomous entity within NIEPA

# Groups Discussions at Kevadia

- **Future of Jobs**
- **Rethinking Education**
- **4<sup>th</sup> Industrial Revolution Skills**
- **Re-engineering government**