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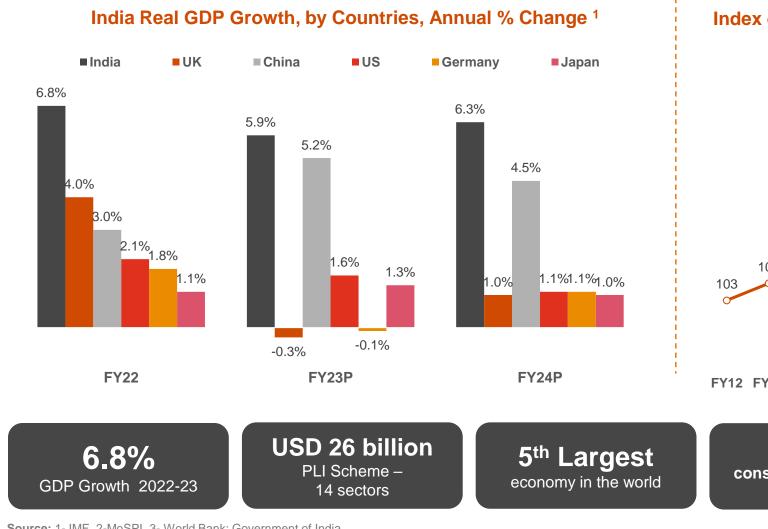
Harnessing the Potential of Sustainable Manufacturing and Circular Economy in the Indian Chemical Industry

Shri Arun Baroka

27-28 July 2023



Indian economy has shown extreme resilience through global economic slowdown & current global geo-political scenario



Index of Industrial Production, base as FY12=100²

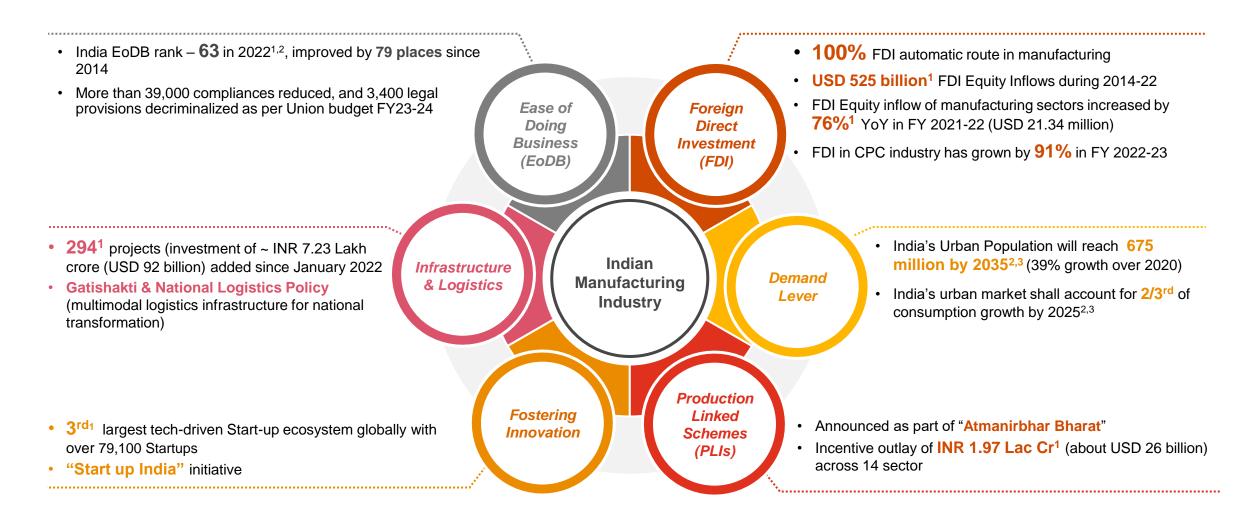


urban market

Source: 1- IMF, 2-MoSPI, 3- World Bank; Government of India

2022-27

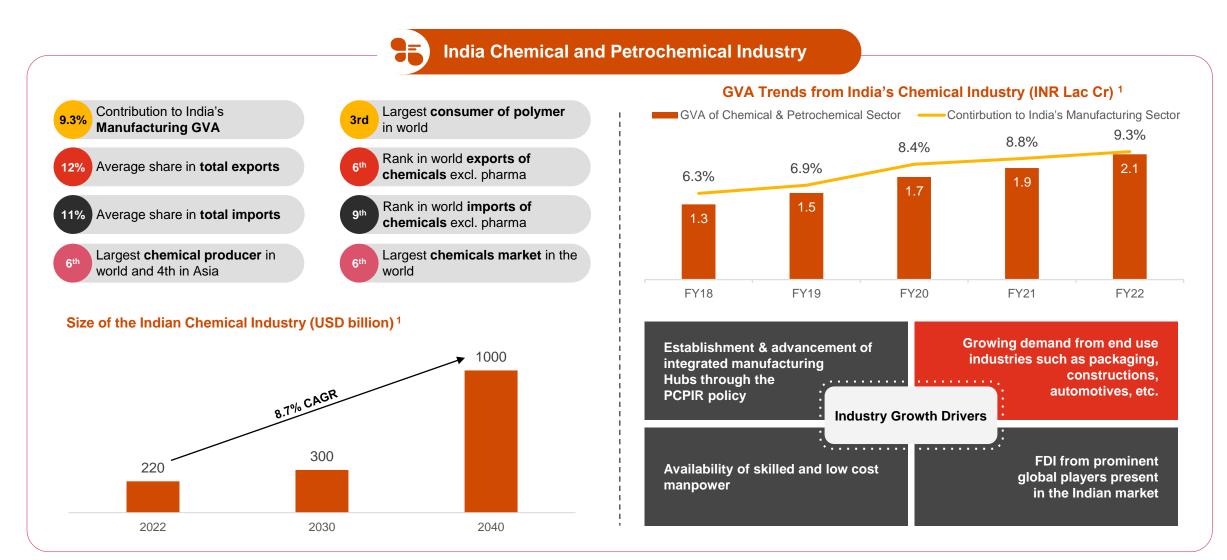
Supported by the policy reforms plus increasing demand and innovation, India's outlook remains strong - to be a global manufacturing hub



Source: 1- Press Information Bureau Gol, 2-World Bank, 3- UN Habitat World Cities Report 2022

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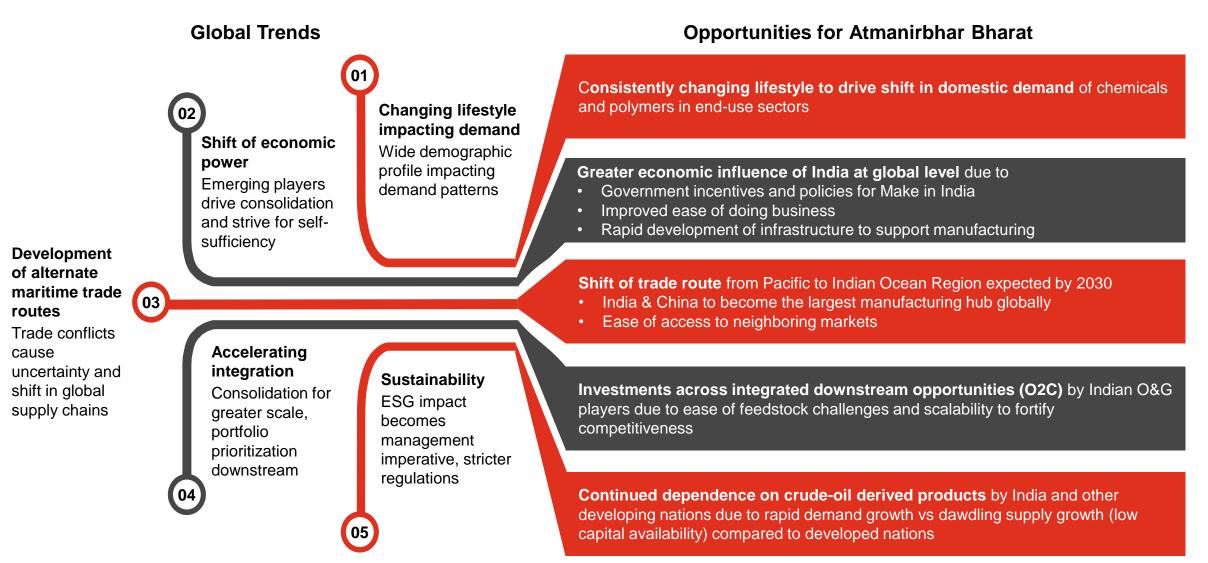
Indian CPC industry has started playing a pivotal role in India's GDP



Source: 1- MoSPI, DCPC, IMF, Industry Sources

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Changing industry landscape is driving the Indian Chemical Industry towards the next wave of growth and presenting newer opportunities



High-growth prospects in different end-use sectors are expected to drive the demand for chemicals in the long-term

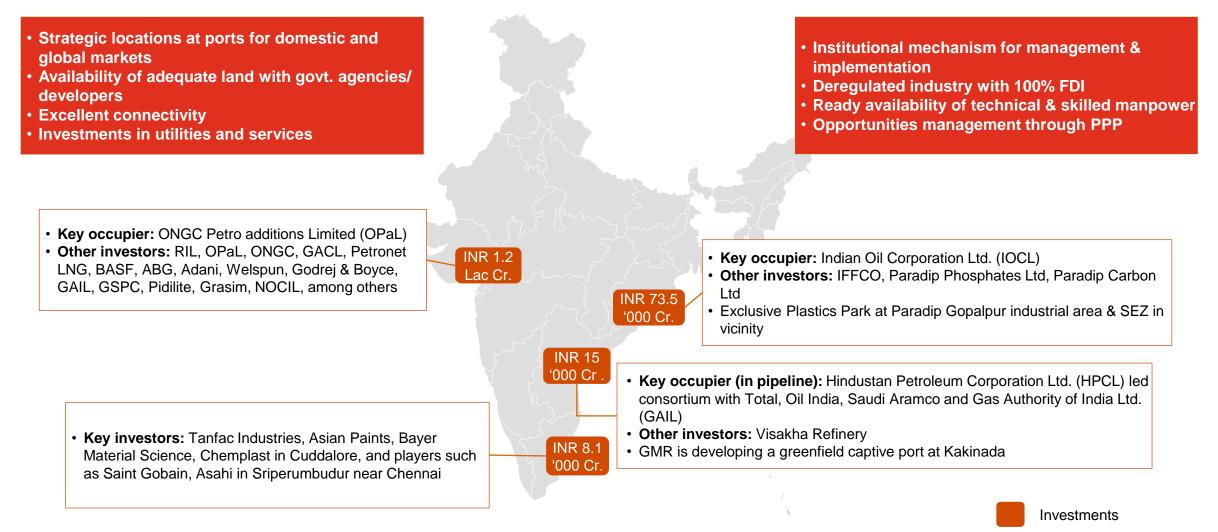
	Sectors	GDP Share ^{1,2,3}	Sector Projected Growth ^{1,3,4}	Sector Growth trends
		2022	2022-30	
	Agriculture	18% GVA share	++	Demand growth from differentiated products
	Infrastructure & Construction	9% GVA share	+++	Accelerated capital investments through govt. initiatives
Ê	Automotive	6%	++	Increase in market penetration, demand rise of rubber, FDI inflow
	Packaging	5%	++++	Variable consumer buying patterns, focus on exports to EU
4	Electronics & Electricals	4%	++++	Govt. schemes, PLIs, large consumer base, 'Digital India' initiative
	Pharmaceuticals	2%	+++	Diverse consumer profiles and needs, lifestyle changes
A	Chemicals	2% GVA share	+++	Focus on specialties & fine chem, demand from end-use sector
ource: 1- Pre	ess Information Bureau Gol. 2-Invest India Forum 3- India B	→Sector projected growth over 2022→		

Source: 1- Press Information Bureau Gol, 2-Invest India Forum , 3- India Brand Equity Foundation, 4- PlastIndia, Industry sources

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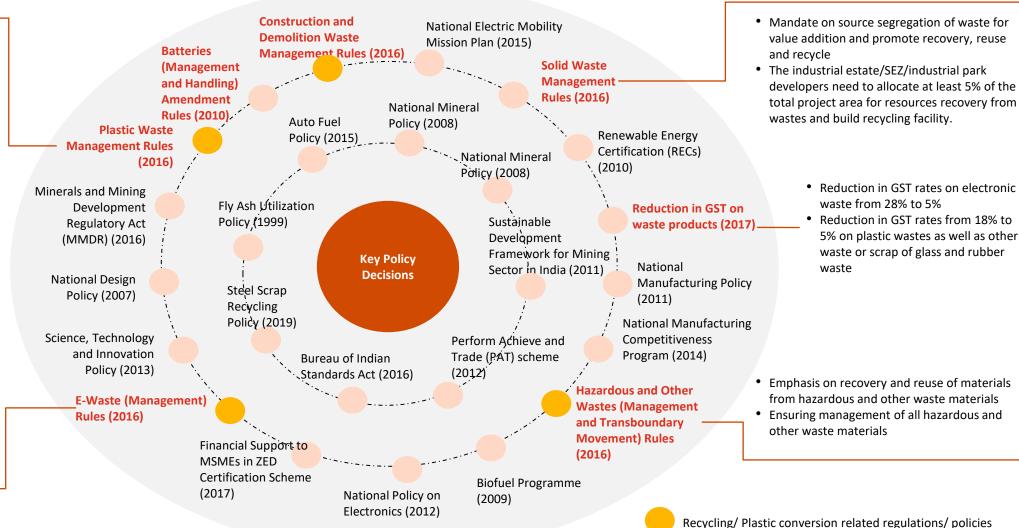
India is establishing itself as global manufacturing hub through earmarking strategic locations for integrated sustainable and circular PCPIRs



Indian government has also undertaken multitudes of initiatives to develop ecosystem for adoption of circular economy

- Mandate on producers and brand owners to introduce collect back systems as per EPR
- Increase in minimum thickness of plastic bags to reduce free distribution by retailers
- Ban and penalties on manufacture of multi-layer plastic (non-recyclable or nonenergy recoverable or with no alternate use) packaging
- Plastic waste management fee through pre-registration of the producers, importers and vendors

- Responsibility to collect and recycle e-waste generated during manufacture process
- EPR to collect end-of life E-waste and properly store, transport and treat it before recycling or disposal



Thank You