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10<sup>th</sup> Southern Asia Ports, Logistics and Shipping 2015, India

15<sup>th</sup> September 2015

Evolving business environments in the logistics sector for domestic and international trade

In times of change ...

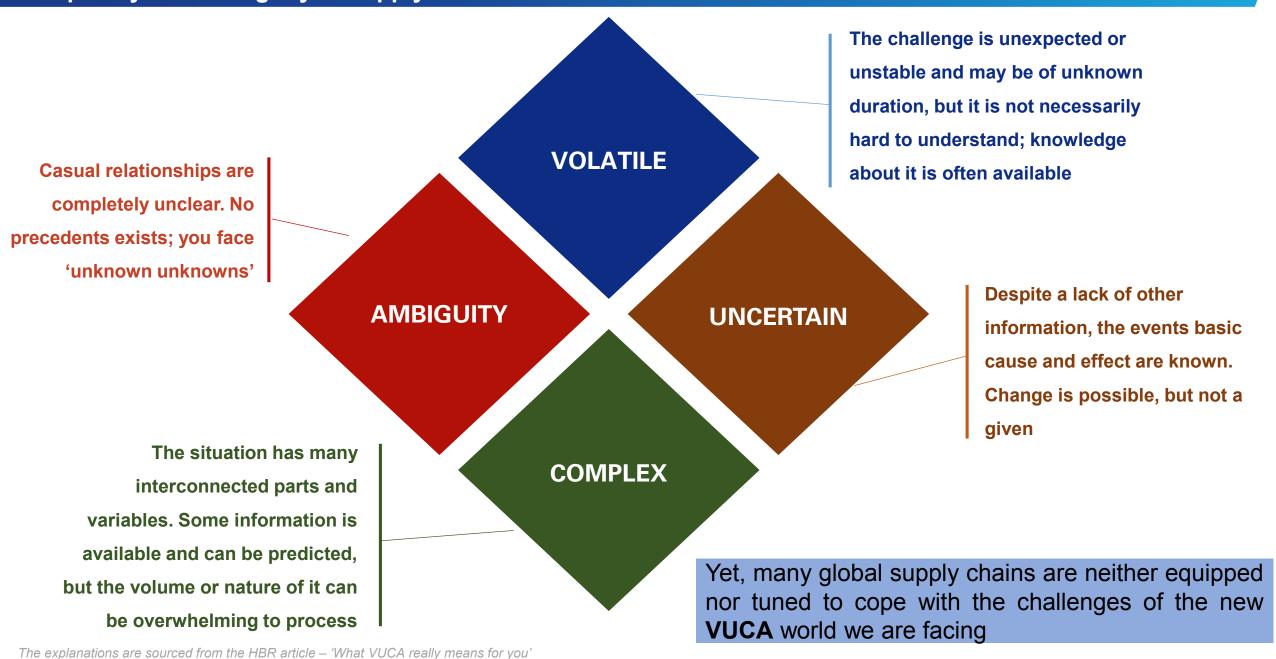
Learners inherit the earth;

While the **Learned** find themselves beautifully equipped to

deal with a world that no longer exists.

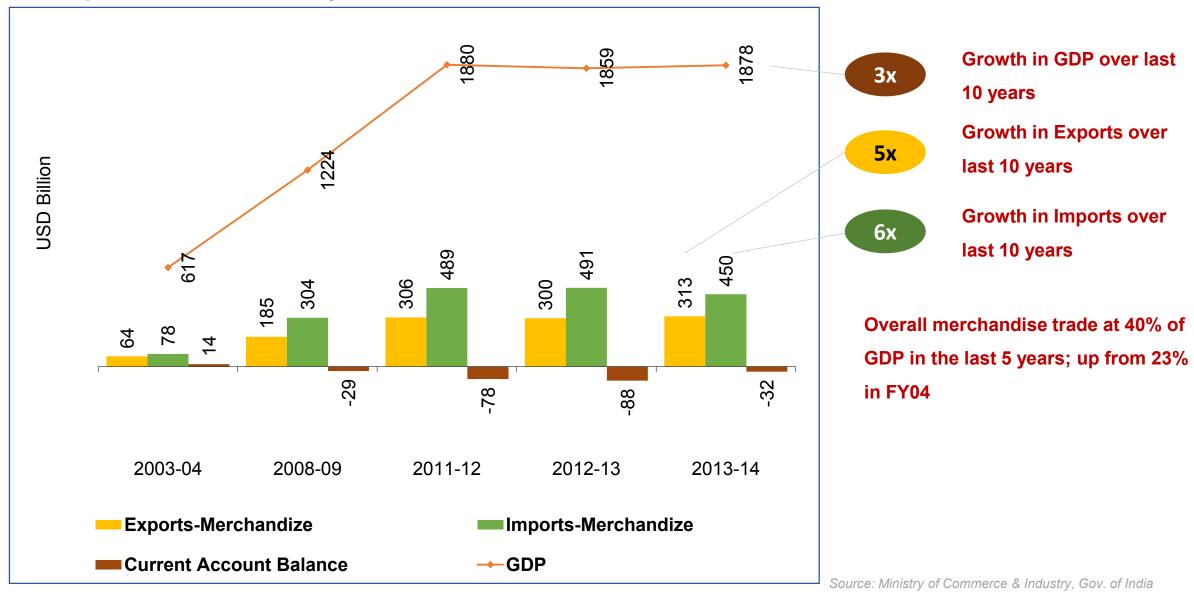
- Eric Hoffer

The VUCA world describes the conditions of increasing variability and demand uncertainty, and the complexity and ambiguity of supply chain networks...

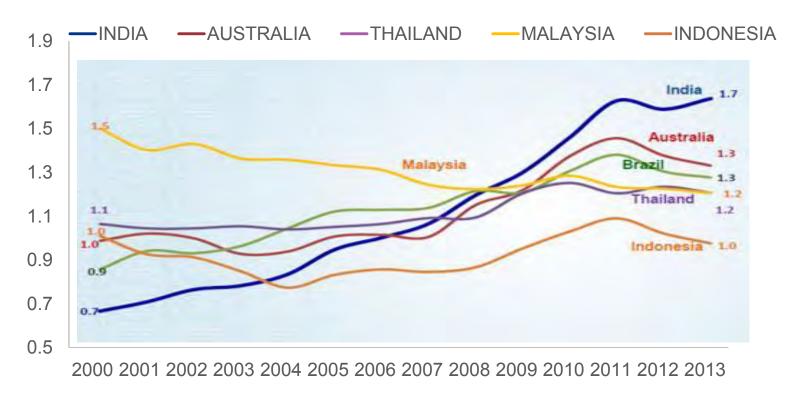


The contribution of international trade to the country's GDP has significantly increased over the past decade from 23% to 40%; Imports having outpaced the growth of Exports

#### A snapshot of the Indian economy over the last decade

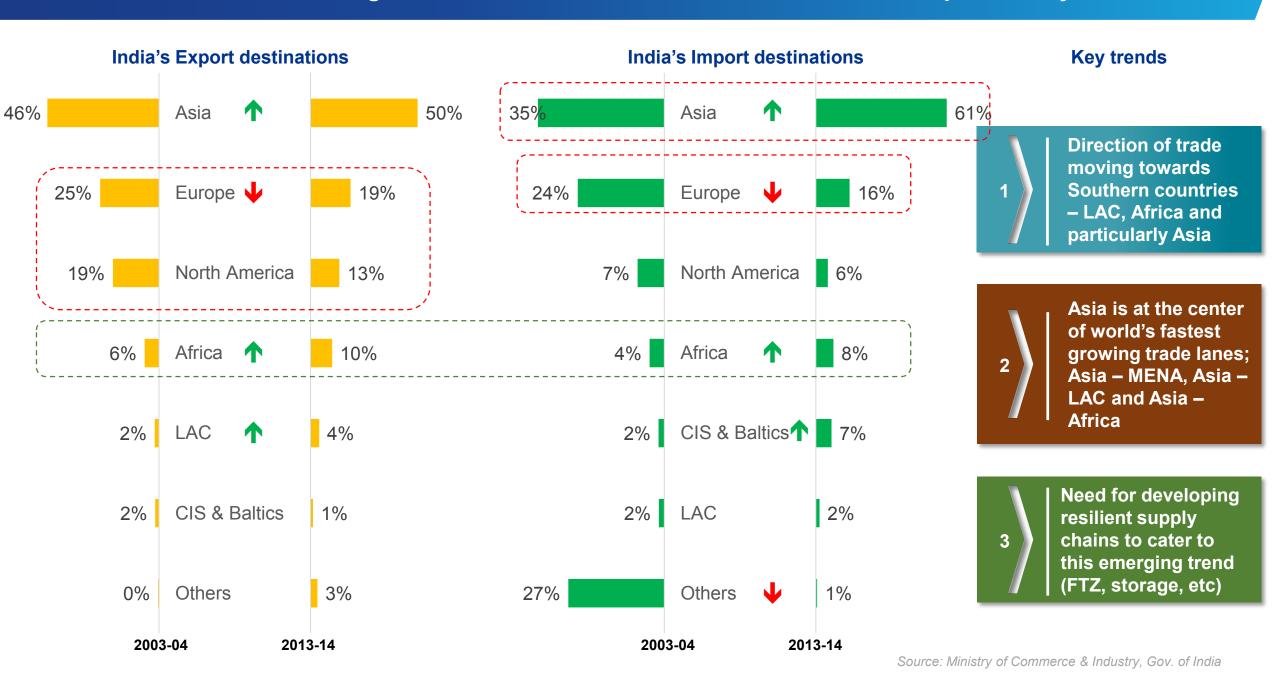


India has emerged as a leading player amongst developing countries and is expected to have the fastest growth in the coming years

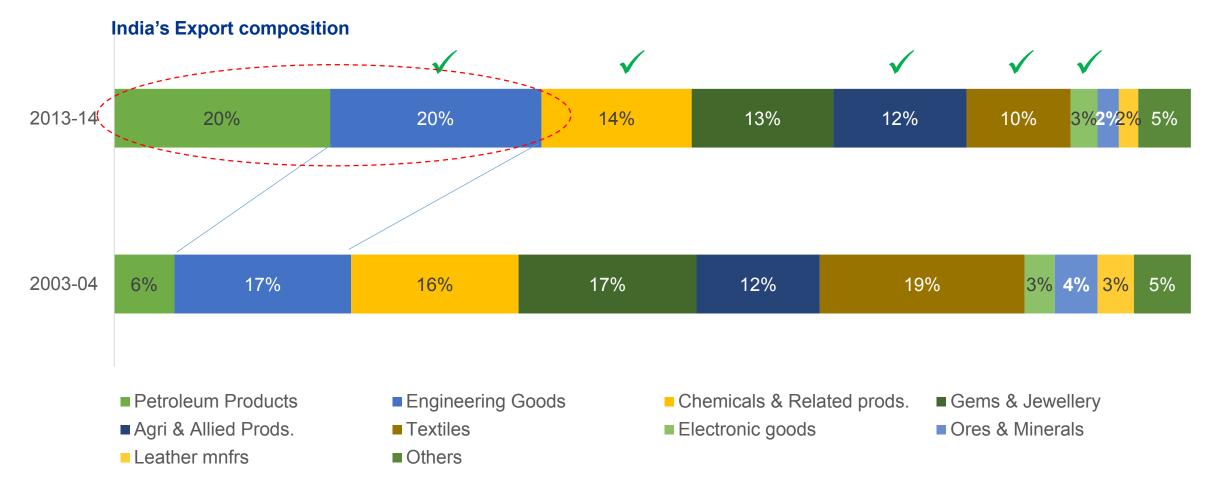


- A shift in Government's policy in recent years from protecting 'producers' to benefiting 'consumers' is seen in its push for a more liberal global trade regime
- It has signed several regional and bilateral trade agreements:
  - India Sri Lanka FTA
  - Trade agreements with Bangladesh,
     Bhutan, Nepal, Maldives, China and S.
     Korea
  - Comprehensive Economic CooperationAgreement with Singapore
  - Framework agreements with ASEAN,
     Thailand and Chile
- India now ranks 6<sup>th</sup> largest global exporter,
   up from 25<sup>th</sup> position in 2000

## The direction of trade is moving towards southern countries like LAC, Africa and particularly intra-Asia

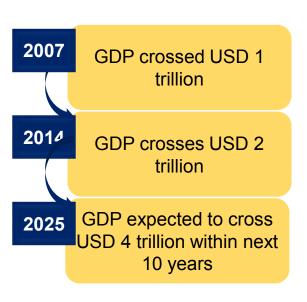


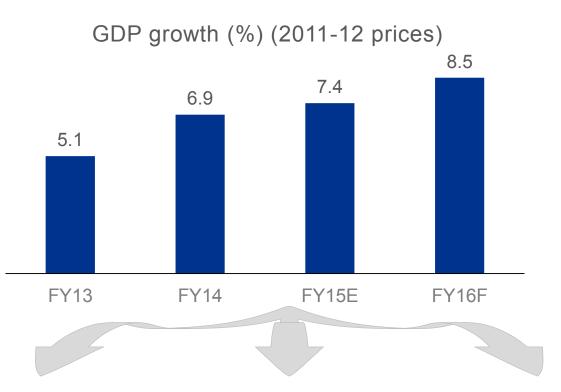
## Thrust on manufacturing will continue to increase containerized exports; finished petroleum products being the other significant export commodity



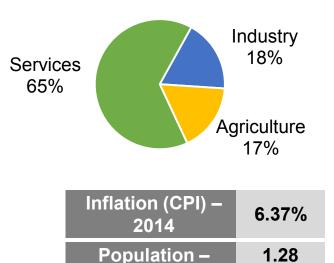
- Exports shows a marked shift to finished petroleum and engineering products
- Engineering, textiles, agri & allied products and other manufactured products will lead to an increase in containerized traffic
- These sectors are also likely to get a strong impetus from the current Government's 'Make in India' initiative and the port led development initiative

With the Indian economy poised for growth over the next decade, the logistics sector is likely to be an interesting space as one of the key enablers









2014

billion

#### **Past**

Indian economic growth slowed in FY13 and FY14 due to the global economic slowdown and the Euro Zone crisis

#### Present

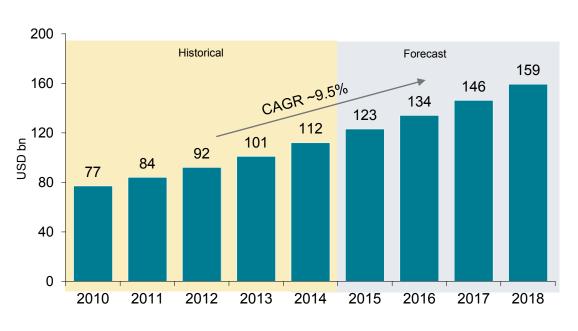
The new government, led by Prime Minister Narendra Modi, has made efforts to reinvigorate sustained and robust economic growth at 7.4 per cent in FY15

#### **Future**

With an expected growth of 8.5 per cent in FY16, India is likely to be one of the largest and fastest growing economies in the world

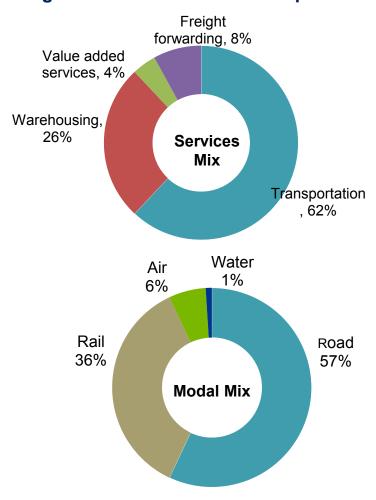
## India's logistics industry is expected to grow at a CAGR of ~9.5% p.a. to reach ~\$160 billion by FY18

#### **Logistics Market: Revenue Growth and Forecasts**



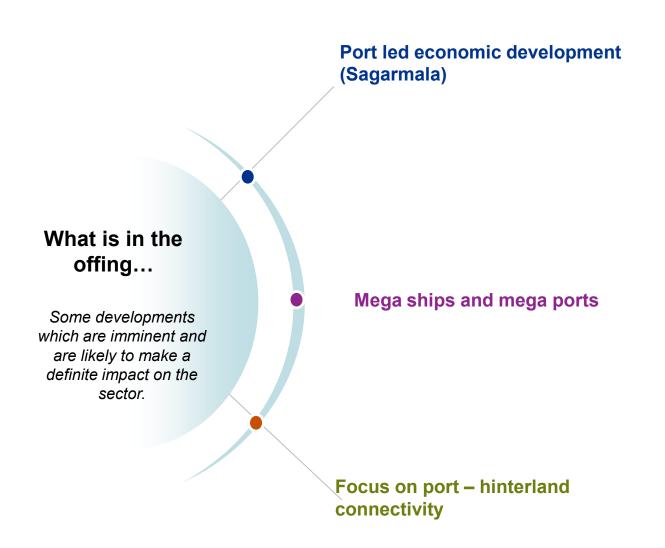
Source: KPMG in India analysis, Frost and Sullivan

#### **Logistics Revenue and its Components**



Source: : KPMG Analysis

## **Opportunities from key trends and Government initiatives**



## Theme 1 – Port led economic development

Trend	Why will this happen?	How will this impact logistics?	What are the business opportunities?
Port based	• Focus on 'Make in India'	<ul> <li>Increased volumes of EXIM trade; largely containerized traffic</li> </ul>	<ul> <li>Development of Multiple maritime economic, trade and urban centers/ clusters</li> </ul>
industrial development	Focus on EXIM based industries	<ul> <li>Higher service levels through evolved port ecosystem and infrastructure</li> </ul>	<ul> <li>Infrastructure development for FTWZs, SEZ, industrial parks, logistics parks, CFS, ICDs, PFTs, etc.</li> </ul>
Ports of global scale and standards	<ul><li>Improved port utilization</li><li>Reduced congestion</li><li>Improved mechanization and material handling</li></ul>	<ul> <li>~20% reduction in operational efficiencies of gateway ports</li> <li>Significant TAT improvement</li> </ul>	<ul> <li>Building World Class ports with all encompassing modern, mechanized facilities with deep drafts</li> </ul>
		<ul> <li>Improved storage facilities minimizing losses</li> </ul>	<ul> <li>Building dedicated vessels, channels and facilities for coastal/inland shipping</li> </ul>
Technology adoption to logistics	<ul><li>Improved mechanization</li><li>Real-time tracking and trend assessment</li></ul>	Improvement in efficiency and reduction in turn around time	Collaborate to adopt technology     solutions like RFID, electrification of
		<ul><li> Green initiative</li><li> Effective data management and sharing</li></ul>	<ul><li>equipment, improve TAT</li><li>Solutions development for port community</li></ul>

## Theme 2 – Mega ships and mega ports

Trend	Why will this happen?	How will this impact logistics?	What are the business opportunities?
Modernization of existing ports	Increasing vessel sizes	<ul><li>Increased efficiencies due to scale</li><li>Better frequency of mainline vessels</li><li>Reduction of feedering cost for containers</li></ul>	<ul> <li>Development of 3-4 modern world scale Mega ports of 200 Mtpa capacity</li> </ul>
			<ul> <li>Develop Trans-shipment terminal to handle Asia-Pacific Regional traffic to emerge as Regional Container Hub</li> </ul>
Development of	Smaller ports with deeper access to hinterland	<ul> <li>Reduce congestion on road network</li> <li>Efficient multi-modal connectivity to reduce transportation cost</li> </ul>	Dedicated backward linkages with existing and planned Transport / Infra projects
riverine and coastal ports	<ul> <li>Distributed capex</li> </ul>		<ul> <li>Structured urbanization of coast/rivers</li> </ul>
	<ul> <li>Water being a cheaper mode of transport</li> </ul>		and development of riverine/ coastal communities
	•		<ul> <li>Shipbuilding and repair industry</li> </ul>

## Theme 3 – Focus on hinterland connectivity

Trend	Why will this happen?	How will this impact logistics?	What are the business opportunities?
Last mile connectivity	<ul> <li>Need for effective and large scale evacuation</li> <li>Congestion on road and rail network</li> </ul>	<ul> <li>Improved infrastructure thereby increased efficiency</li> <li>Reduced logistics cost</li> <li>Logistics to act as an enabler for traffic growth</li> </ul>	<ul> <li>Direct Port to plant transfers e.g. conveyors and pipelines</li> <li>Provide dedicated roads/ lanes for domestic cargo movement from port to nearby clusters</li> <li>Dedicated freight corridors</li> </ul>
Development of large scale storage and processing infrastructure	<ul> <li>Focused industrialization and economic activities requiring land parcels with good connectivity</li> </ul>	<ul> <li>Large scale warehousing with high technology adoption</li> <li>Minimise losses and increase efficiency</li> <li>Reduce congestion on road network</li> </ul>	<ul> <li>Infrastructure development for FTWZs,</li> <li>SEZ, industrial parks, logistics</li> <li>parks, and warehousing clusters</li> </ul>

## We see certain themes that have a potential to transform the domestic logistics space



## **Theme 1 - Operational efficiency improvement**

Trend	Why will this happen?	How will this impact logistics?	What are the business opportunities?
Fleet Consolidation	<ul> <li>Focus on cost efficiency</li> <li>Development of freight corridors and logistics parks</li> <li>Vehicles meeting global standards</li> </ul>	<ul><li>Lower total transportation cost</li><li>Higher service levels</li></ul>	<ul> <li>Consolidate operations to capture scale and efficiency advantages</li> </ul>
Cargo standardization &	Improve service levels and minimizing losses	<ul> <li>~20% reduction in operating cost of modern warehouses</li> </ul>	Increasing use of advanced     technologies like FIBC, for bulk     transport, especially in B2B setups
warehouse mechanization	<ul><li>Unavailability of labor</li><li>Risk from customized assets</li></ul>	<ul><li>TAT improvement</li><li>Reduction in in-transit damages</li></ul>	<ul> <li>Increased outsourcing to 3PL and specialized w/h service providers (hub &amp; spoke)</li> </ul>
Technology adoption to logistics	Manage customer expectations	<ul> <li>Use of 'big data' to optimize logistics movements</li> <li>Improvement in efficiency and reduction in transit time / losses</li> </ul>	<ul> <li>Collaborate to adopt technology solutions like RFID, GPS tracking to reduce losses, improve TAT</li> </ul>
	<ul> <li>Reducing cost of mobile technology</li> </ul>		
	<ul> <li>Real-time tracking and trend assessment</li> </ul>		<ul> <li>Solutions development for logistics industry</li> </ul>

## Theme 2 – Infrastructure development

Trend	Why will this happen?	How will this impact logistics?	What are the business opportunities?
Development of National Highways	<ul> <li>Congested road network (top 7 highways carry 50% freight)</li> <li>Poor infrastructure impeding growth</li> </ul>	<ul> <li>Efficiency improvement (reliability, speed, larger truck sizes)</li> <li>Consolidation hubs and development of hub-spoke models along major highways</li> </ul>	<ul> <li>Re-evaluate network to benefit from lower cost &amp; efficient options</li> </ul>
			<ul> <li>Development of warehousing infrastructure along highways</li> </ul>
			<ul> <li>Shift towards logistics outsourcing and emergence of 3PL/4PL players</li> </ul>
Development of dedicated freight corridors	Under investment in rail infrastructure	<ul> <li>Shift towards rail in modal mix</li> <li>Efficiency improvement (load factor, decongestion at ports/rail/road, faster turnaround)</li> </ul>	Re-evaluate modal mix and network to
	<ul><li>Lesser capital investment required than road capacity</li><li>Congested road network</li></ul>		<ul> <li>Shift towards logistics outsourcing and emergence of 3PL/4PL players</li> </ul>
Development of Warehousing Zones	Increase in EXIM trade	Enhanced quality of warehousing and service levels	Increased outsourcing to 3PL
	<ul> <li>Increased demand for modern warehouses</li> </ul>	<ul> <li>Adoption of technology leading to better inventory tracking</li> </ul>	<ul> <li>Increased opportunity for value addition activities</li> </ul>
	<ul> <li>High wastage in perishables</li> </ul>	Faster Turnaround with EXIM focus	<ul> <li>Increase in shared warehousing</li> </ul>

## Theme 3 – Regulatory and demographic changes

Trend	Why will this happen?	How will this impact logistics?	What are the business opportunities?
GST roll-out and implementation	<ul> <li>Complex tax system leading to revenue leakage</li> <li>Inefficient distribution systems</li> </ul>	<ul> <li>15-20% logistics cost reduction</li> <li>Networks optimized</li> <li>Consolidation of warehousing locations</li> <li>Lower system inventory</li> <li>Improved service levels</li> </ul>	<ul> <li>Re-design outbound distribution network &amp; identify strategic locations</li> <li>Shift towards logistics outsourcing and emergence of 3PL/4PL players</li> </ul>
Increasing urbanization and creation of megacities	<ul> <li>Manufacturing and services-led economy</li> <li>Migration toward urban areas with &gt;60 % urban population concentrated in ~25-30 urban clusters by 2030</li> </ul>	<ul> <li>Development of logistics parks consolidation centres, 'dedicated freight corridors (DFCs)' etc.</li> <li>Innovation for last mile connectivity</li> <li>Wastage/loss reduction</li> </ul>	<ul> <li>Focused industrial development</li> <li>Development of logistics hubs with modern facilities and multi-modal connectivity</li> <li>Growth of 3PL / 4PL business</li> </ul>

## Theme 4 – Innovative logistics models to cater to evolving business models

Trend	Why will this happen?	How will this impact logistics?	What are the business opportunities?
Postponement of manufacturing operations	<ul> <li>Need for flexibility in operations</li> <li>Minimize non-optimal product</li> </ul>	<ul> <li>Ability to manage demand-supply imbalances</li> <li>Reduction in logistics cost</li> </ul>	<ul> <li>Re-evaluate manufacturing strategy and footprint,</li> <li>Focus on last mile connectivity</li> </ul>
	movements	Lower system inventory	services for finished products
Penetration of organized retail	<ul> <li>Urbanization and changing demographics</li> </ul>	<ul><li>8-10% reduction in logistics cost</li><li>Direct procurement</li><li>Central &amp; modern warehousing</li></ul>	<ul> <li>Emergence of warehousing hubs &amp; 3<sup>rd</sup> party specialized w/h service providers</li> </ul>
	<ul><li>FDI in Multi Brand Retail</li><li>Innovation in retail (including e-</li></ul>		<ul> <li>Focus on last mile connectivity services</li> </ul>
	commerce)		<ul> <li>Growth in cold chain supply chain</li> </ul>
Focus on reverse logistics	Focus on managing returns & after sales	<ul> <li>Development of supply chains to maximize value from returns (recycling of waste, re-sell)</li> </ul>	Emergence of companies operating reverse logistics supply chains –
		<ul> <li>Reduction in economic loss from minor damages / obsolescence</li> </ul>	managing returns, waste management
Industry verticalization	<ul> <li>Focus on quality control and minimizing losses in FMCG, foods, retail, dairy etc.</li> </ul>	<ul> <li>Specialization in freight service providers</li> <li>Reduction in costs and improves efficiencies</li> </ul>	Development of third party logistic service providers specializing (capabilities and assets) in industry verticals (e.g. cold chain, project logistics)

# Thank You!!



## We believe KPMG offers a unique proposition in the Transport & Logistics domain

#### We have a strong track record in leading similar logistics sector engagements

We have executed and delivered 100+ advisory assignments across the logistics value chain including domestic logistics, international network services, maritime and aviation across asset categories and transport modes. Our clients include large global and Indian logistics operators, mid sized Indian companies, financial investors, Government and end users

## We know what it takes to both identify the true potential AND deliver it

Our approach and methodology has been built and refined over the course of delivering 100's of logistics engagements across the globe. We know what works and what doesn't, meaning our solutions can be practically and rapidly implemented to deliver your growth targets

#### Our team is highly experienced and brings skills from across the globe

Our team consists of seasoned specialists who bring extensive experience of logistics industry. We have skilled team with deep knowledge of Services include Market entry strategy, Growth Strategy, Diversification Strategy, Industry diligence, Strategy execution, Program Management, Process and Operations improvement, IT advisory and Process outsourcing

Implementation focus Value Relevant Thought & Sadership Proposition Experienced Global Team

The KPMG

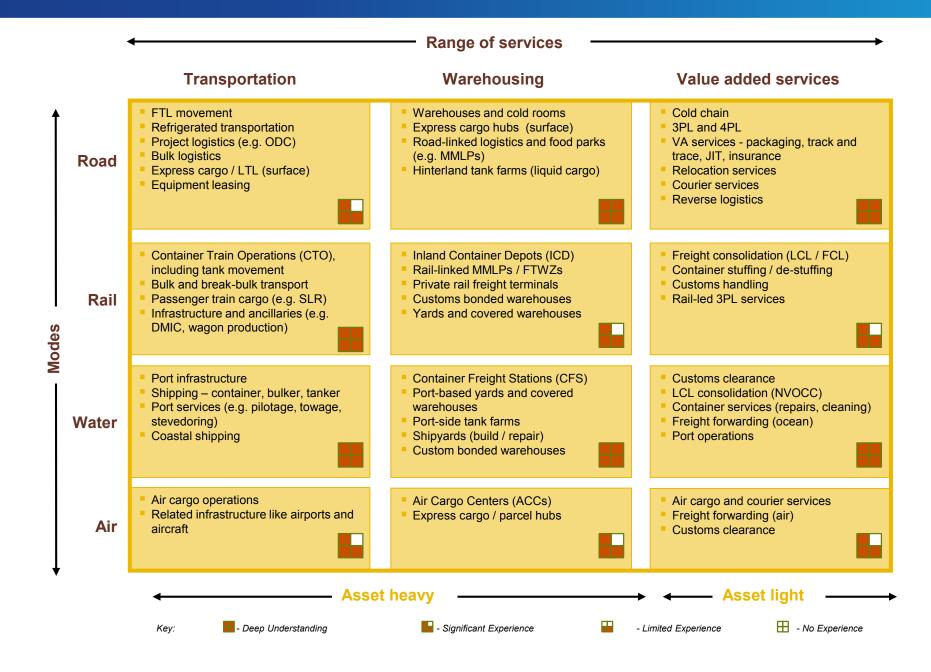
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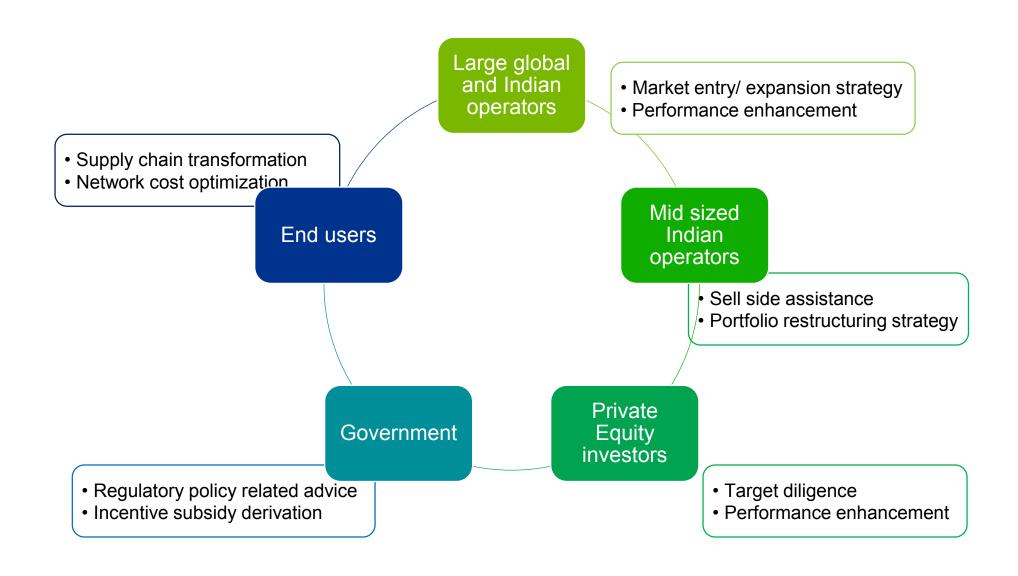
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#### We are thought leaders in most of the areas of your business

We are the preferred knowledge partner for leading industry bodies with definitive proprietary thought leadership research on the global and Indian logistics industry

## KPMG has strong credentials and experience - 100+ assignments across logistics sub-segments in India





## KPMG has helped variety of clients to develop their growth and entry strategy in logistics and transport





































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#### **Our Experience Summary in Logistics and Transport**

Policy Advocacy

- Multiple projects with Govt. of India to advise them on policy matters such as ports, chemical and fertilizers, public sector, cybercrime, fiscal sustainability
- KPMG has partnered with leading industry bodies such as CII and FICCI to publish white papers on the logistics industry (e.g. Skill Gaps in the Indian Logistics Sector, Competitiveness Through Efficient Logistics, Adding Wheels, Logistics in India)

COE – Supply Chain

BrainNet

- Eight to nine subject matter experts present globally
- Over 400 dedicated value chain consultants globally
- KPMG has track record of more than 3,000 successful supply chain projects

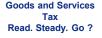
Benchmarking Database

- Databases on road transports and cost benchmarks for Indian scenario
- Database on port related costs and efficiency parameters for port equipments

Transportation and Logistics as focused industry

Worked on various areas such infrastructure advisory services, vendor selection and transition, planning for sourcing of imported material, end to end coal strategy, development of transportation cost benchmarking model







Adding Wheels Investing in the Indian Transport and Logistics Industry



Logistics Game Changers Transforming India's Logistics Industry















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