



**NAVIGATING  
TOMORROW**

The title is surrounded by several icons: a forklift, a location pin, a crane, a ship, a pallet, a truck with a clock, and a control panel. The background features a dotted pattern of small grey circles.

**CIIT India Expo 2019**

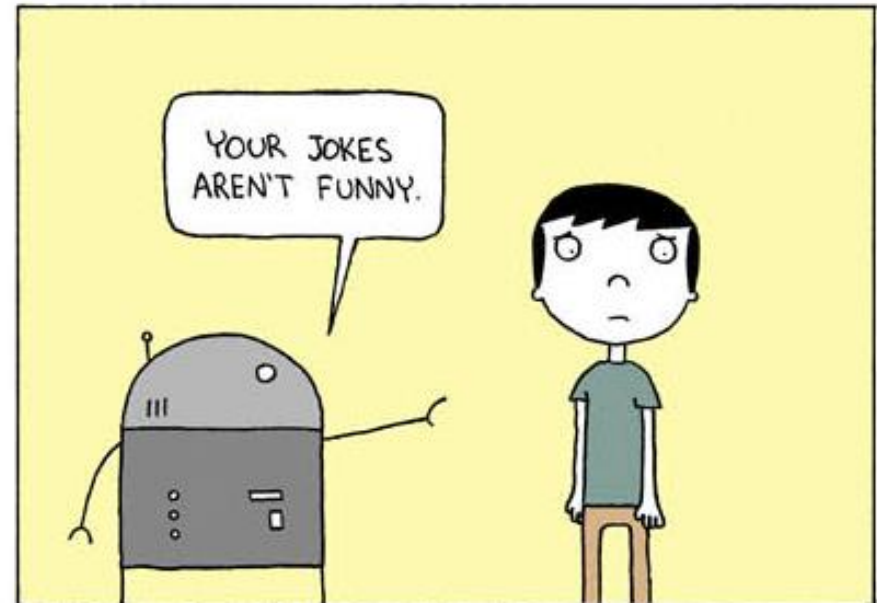
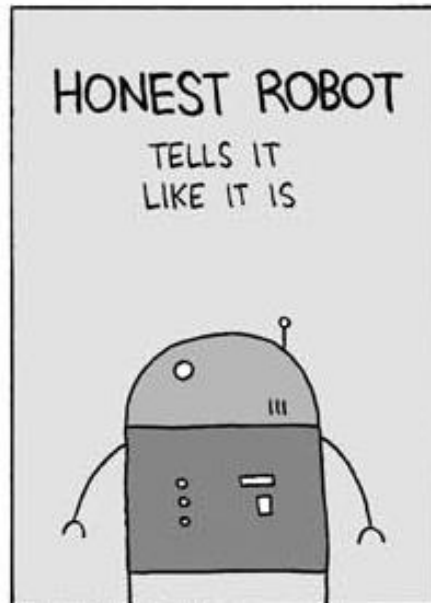
**Creating Platform for Integrated Logistics Solutions**

**21<sup>st</sup> November 2019**

# Old Times ...



# And Now/Expectations ...



# India Growth Story..

2015

- GDP stands at USD 2100 billion
- Rail: Road -35:65
- VAT on Cargo services implemented in 2014.
- Distribution Centre to Fulfilment centre
- Automated toll gates
- Demonetisation in Nov,2016.

2017

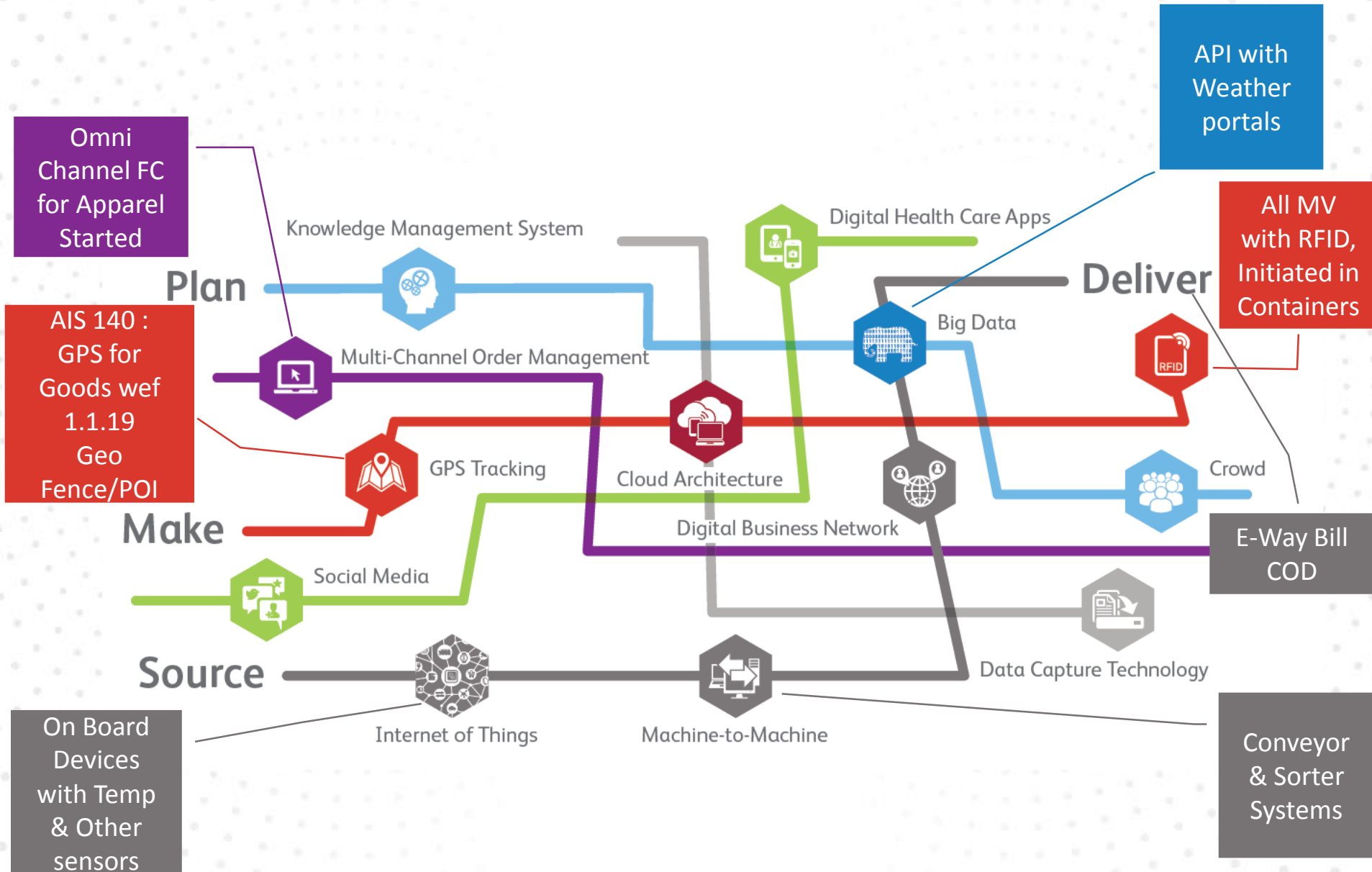
- GDP : USD 2400 billion
- Rail:Road-35:65
- GST introduced-July 2017.
- EDI/API with government portal
- Size of Logistics - \$135 -\$150 Bn (6%)

2018

- GDP : USD 2700 billion
- Rail:Road-35:65 (e)
- E-Way Bill Introduced gradually –April 18
- ILFS Crisis
- AIS 140 GPS
- Safety regulations for vehicles increase

- Digitalization of the Supply Chain / Logistics catches steam
- Apps in logistics gain ground
- Age of VC Funded Startups

# Tech @ Work – India @ Now



# Disruptions on Infrastructure



# DFC- a game changer in the logistics industry

## What sets DFC apart



	<b>Indian Railways network</b>	<b>Dedicated Freight Corridor network</b>	
<b>Freight train speed</b>	average <b>25</b> (kmph)	average <b>75</b> (kmph)	Max speed <b>100</b> (kmph)
<b>Freight train vital stats</b>	<b>700</b> mts   <b>58</b> wagons   <b>5,000</b> tonne	<b>1500</b> mts   <b>120</b> wagons   <b>13,000</b> tonne	
<b>Locomotive power</b>	<b>4000-5000</b> HP	<b>12,000</b> HP (Eastern corridor)	<b>9,000</b> HP (Western corridor)
<b>Laying of track</b>	Manual <b>100-150</b> mts/day	Mechanised <b>1.5</b> km/day	
<b>Time-tabled freight trains</b>	Will initiate on Pilot basis	All trains will run as per timetable	

# Sagar Mala & Diamond Quadrilateral

## OCEAN NECKLACE

THE GOVERNMENT HAS UNVEILED 'SAGAR MALA', A PLAN TO DEVELOP PORTS, TRANSPORT THROUGH WATERWAYS AND PROMOTE SHIPPING. A LOOK

### KEY COMPONENTS

- 1 PORT MODERNISATION**  
Infra upgrade for major and minor ports
- 2 EFFICIENT EVACUATION SYSTEMS**  
Develop efficient rail, road and coastal / MVT networks to hinterland and promote shipping as preferred mode of transportation
- 3 COASTAL ECONOMIC DEVELOPMENT**  
Development of Coastal Economic Zones, port based SEZs; promotion of coastal tourism

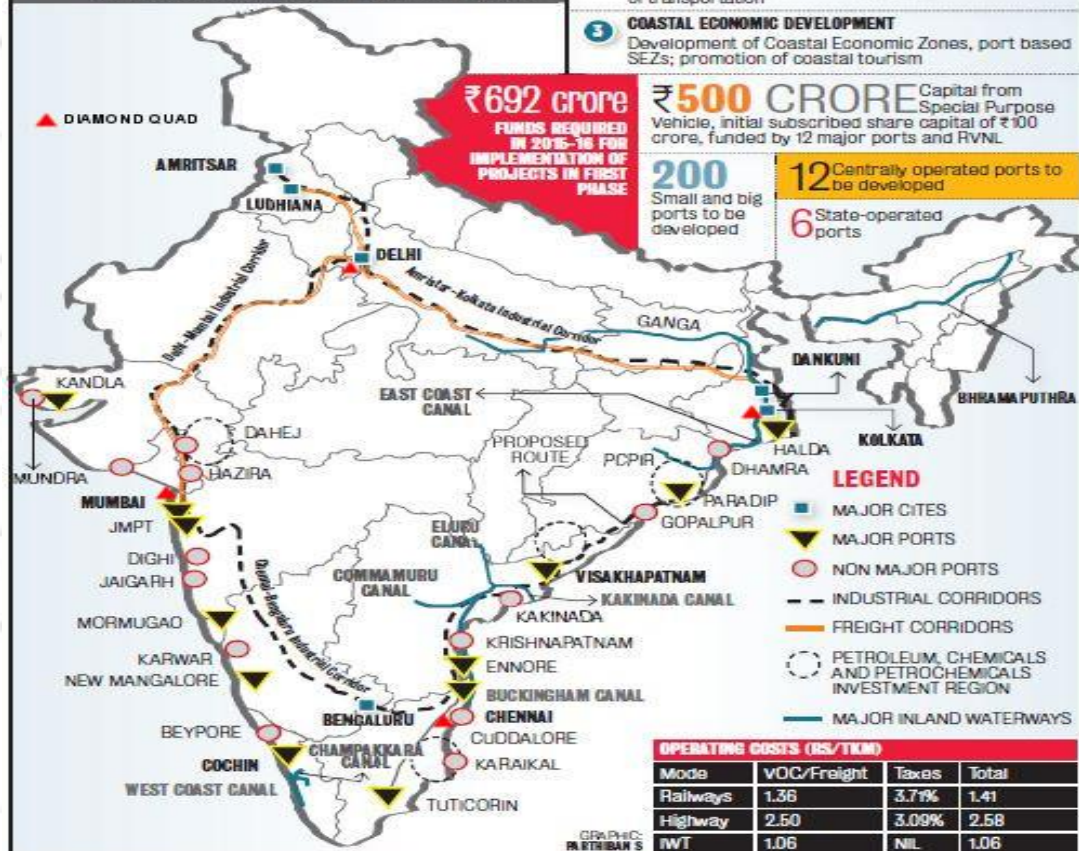
**₹ 692 crore**  
FUNDS REQUIRED IN 2015-16 FOR IMPLEMENTATION OF PROJECTS IN FIRST PHASE

**₹ 500 CRORE** Capital from Special Purpose Vehicle, initial subscribed share capital of ₹100 crore, funded by 12 major ports and RVNL

**200**  
Small and big ports to be developed

**12** Centrally operated ports to be developed

**6** State-operated ports



## Sagar Mala

Sagar Mala envisages port led development of the country that would look towards transforming the existing Ports into modern world class Ports and integrate the development of the Ports, the Industrial clusters and hinterland and efficient evacuation systems through road, rail, inland and coastal waterways resulting in Ports becoming the drivers of economic activity in coastal areas

The project aims to change the way logistics evacuation happens in India, save logistics costs nationwide for cargo handled and evacuated through seaports, boost overall economic development through ports and empower coastal communities

## Diamond Quadrilateral

The Diamond Quadrilateral is a project of the Indian railways to establish high speed rail network in India. This quadrilateral will connect the four metro cities in India, i.e. Delhi, Mumbai, Kolkata and Chennai.

This corridor will be operated on broad-gauge tracks and will pass through 14 states and territories of India.

# India Growth Story..

2019

- GDP : USD 2800 (e) billion
- Rail:Road-35:65 (e)
- New CMVR Rules
- Logistics Cell at Ministry of Commerce

2020

- GDP : USD 3000 (e) billion
- Rail:Road-35:65
- New Multi-modal act
- BSVI Implementation
- Central Min wage (Floor) bill

2020-24

- GDP : USD 4000 billion
- MM ~ 10 %
- 100% E-Toll
- Electric Vehicles
- Policy for automated (self driving vehicles)
- Policy for drones

- Digitalization to be the order of the day
- Warehouse automation : goods to man
- Automated Vehicles (Self Driving) Policy



# Human or Robots



# Thank You!



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TCI's health and safety programme

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