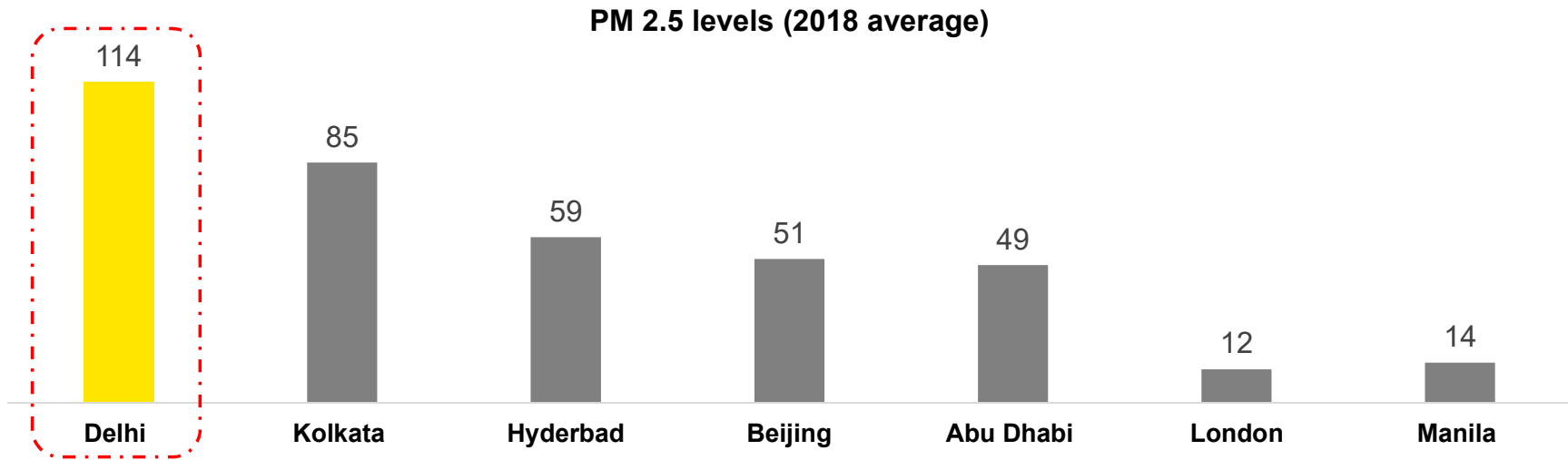


Provision of logistics services through RRTS corridors in NCR

September 17, 2019



Delhi is the number 1 polluted capital in the world



Source: Greenpeace report



Respiratory diseases



Akin to smoking 15-20
cigarettes per day



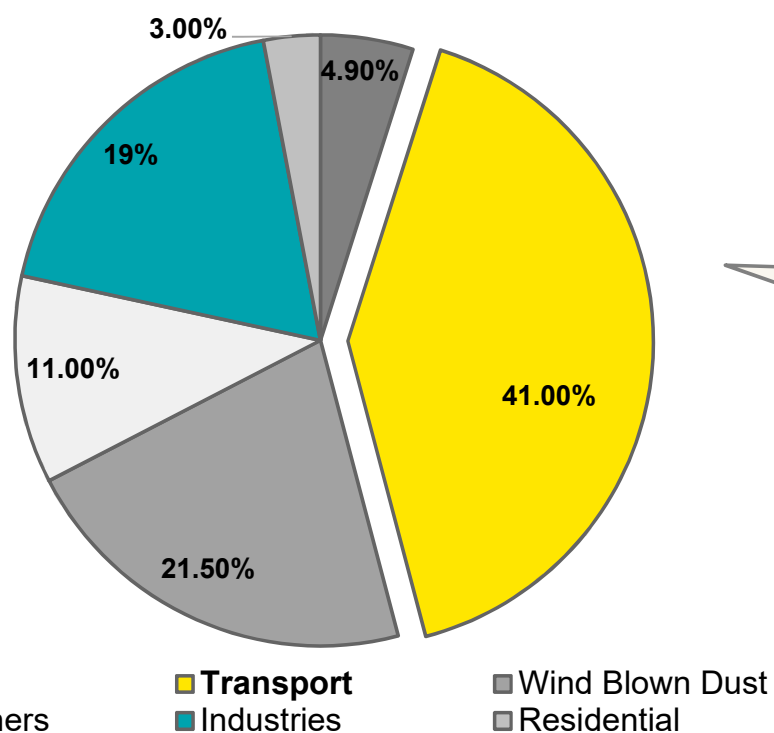
Reduced visibility



Decreasing economic
attractiveness

Commercial trucks among various vehicles contribute the most to emissions in Delhi

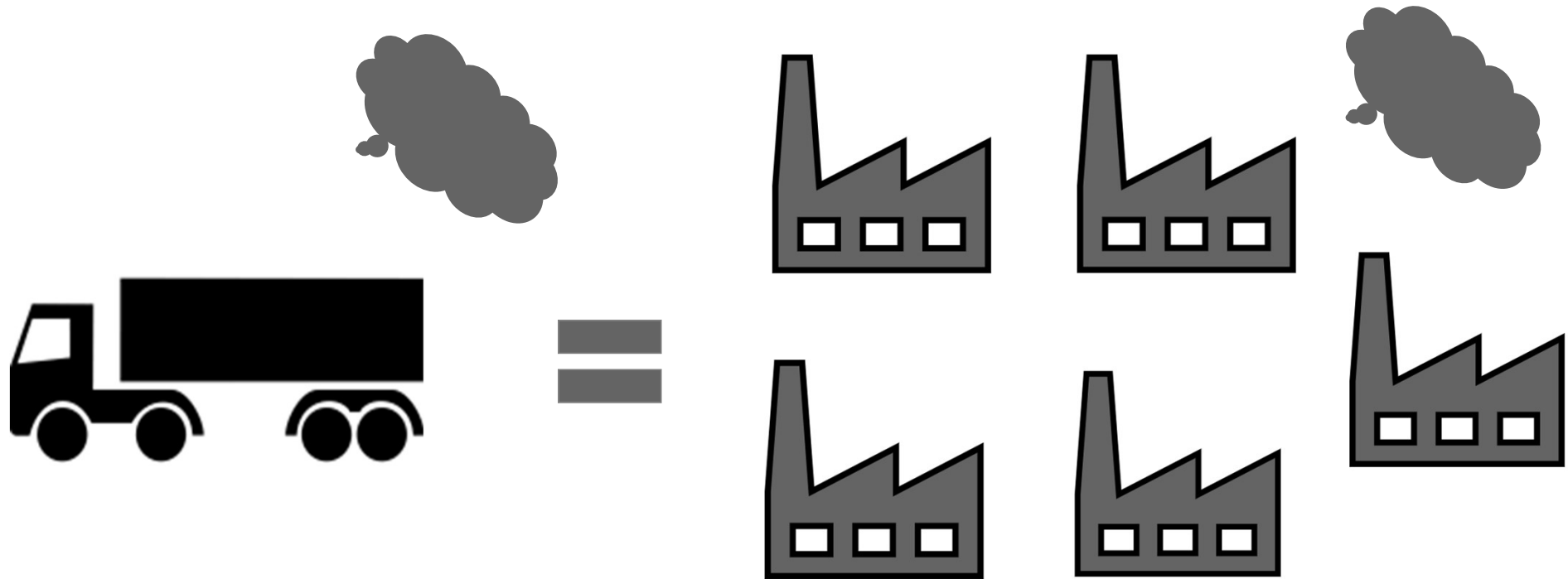
Emissions sources in Delhi



About 63% of the total emissions from transport sector is attributable to commercial vehicles

Source – EPCA report no.92 October 2018; urbanemissions.info

Emissions from trucks entering Delhi are equivalent to emissions from five 650 MW coal based power plants on a daily basis



Total number of trucks entering Delhi daily is estimated to be about **1,80,000** in 2019

In light of rising pollution in Delhi, strict regulations have been enforced on trucks entering in Delhi



In light of rising pollution in Delhi, strict regulations have been enforced on trucks entering in Delhi

TRUCK ENTRY RESTRICTION TIMING



- 7 am to 11 am
- 5 pm to 9 pm

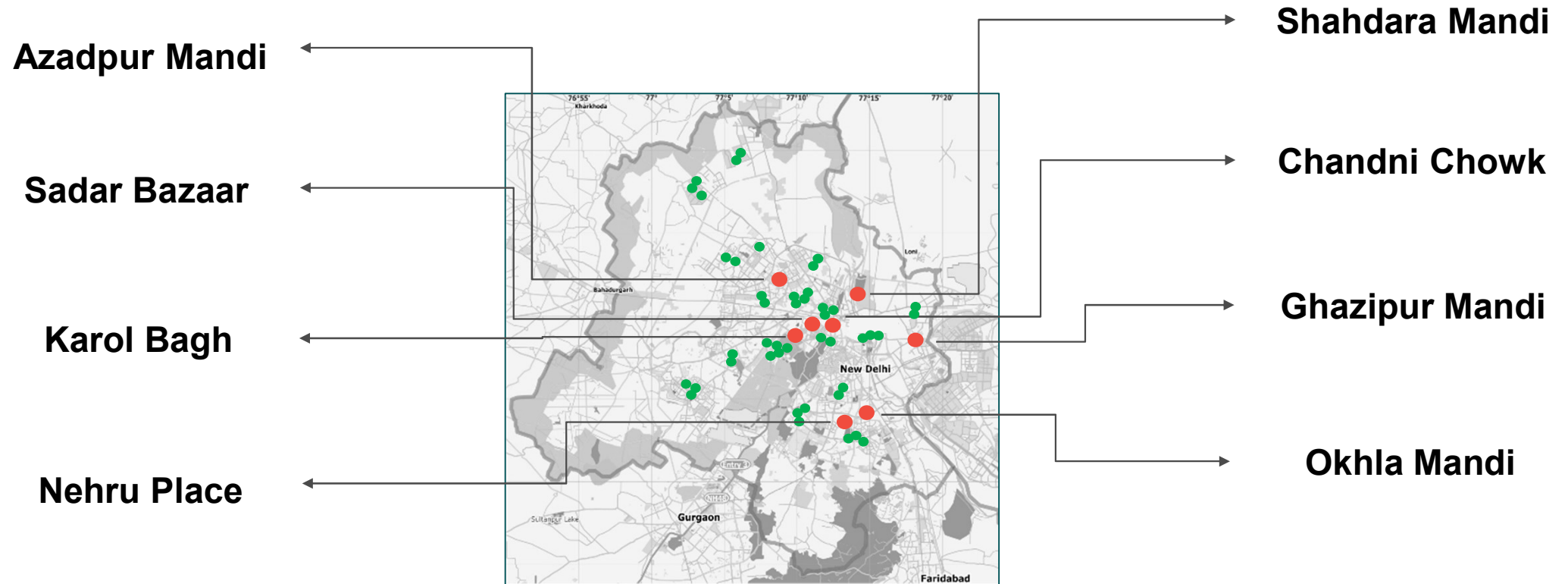
Source: Primary interaction with truckers, 2019



Queuing of trucks at Delhi border

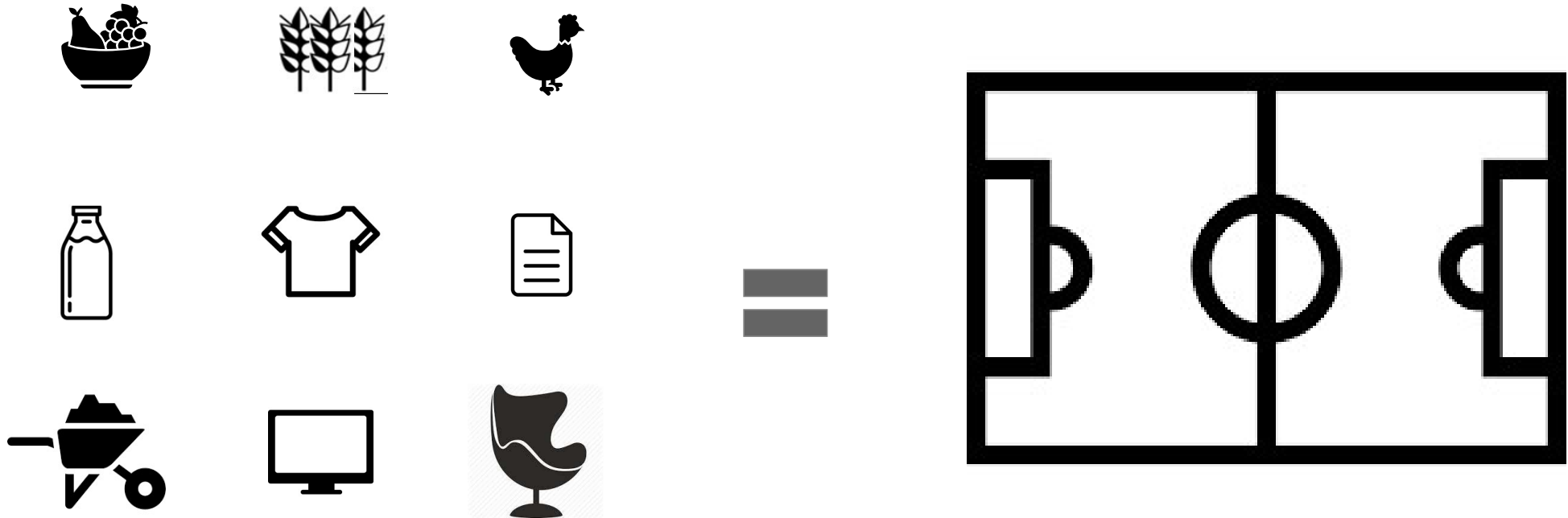
Source: Secondary research

Delhi is a major consumption & distribution hub and houses major wholesale markets



Others: Narela, Patparganj, Nangloi, Paharganj, Kirti Nagar

Storage space for cargo consumed and distributed in Delhi on a daily basis is about area of 50 football stadiums





**Space for cargo coming into/
getting distributed from Delhi daily**

**Area of 50 football
stadiums**

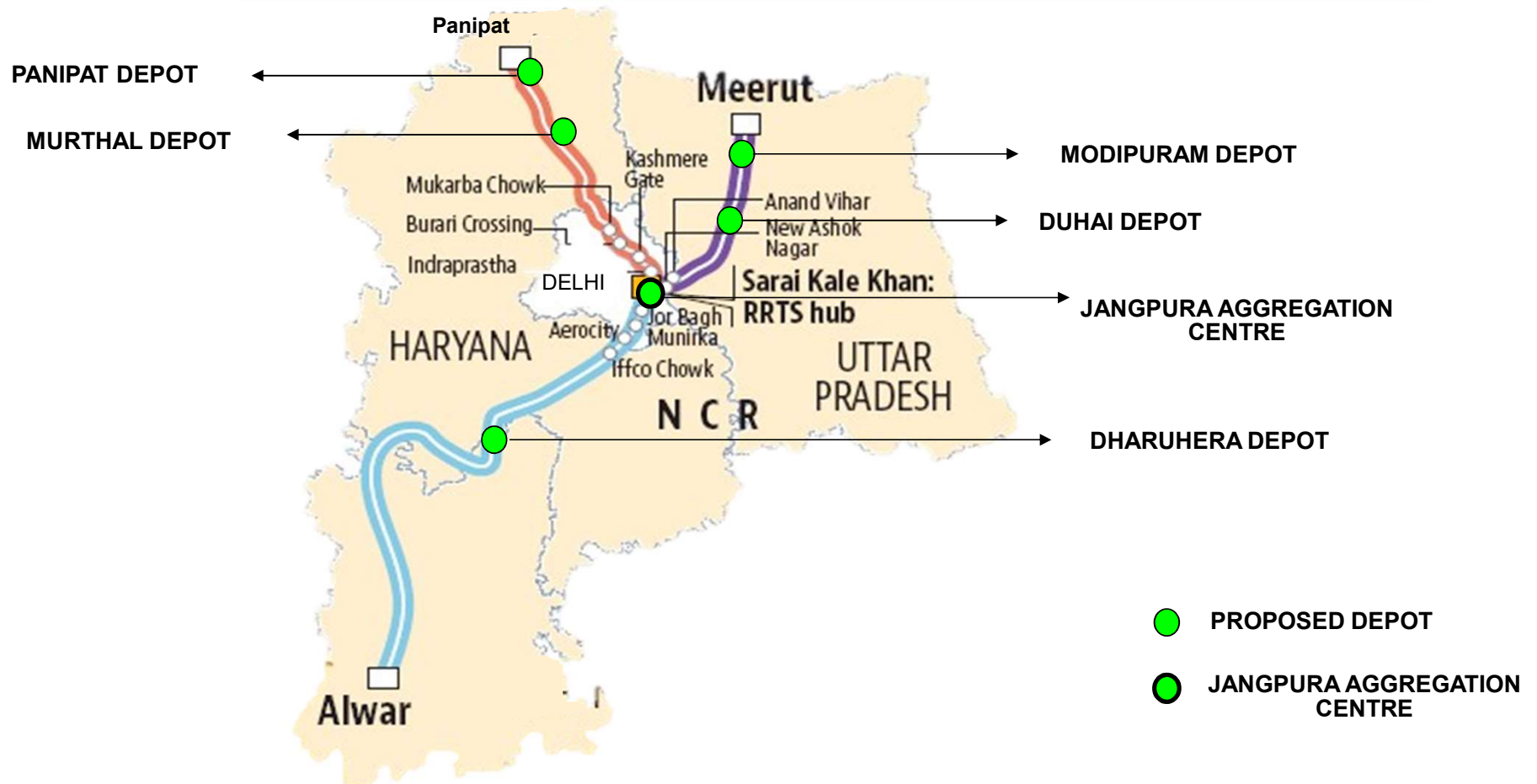
Source: Economic Survey of Delhi - 2018-19

Rail Logistics solution has been successful in Paris

Project	Country	Key Parameters	Status	Details
Paris RER*- Monoprix	 France	<p>Length: 30km</p> <p>Commodities: Bottled Drinks, household goods, groceries</p> <p>Capacity: 120,000 tonnes or 210,000 pallets</p> <p>Frequency: 1 train/day 16 wagons</p> <p>Technical Specs: 140km/hr (speed), 3800hp(power), 1.5kV DC pantograph</p> <p>Enabler: Combining Regional Transit Railway with CNG trucks for last mile delivery of consumer goods inside Paris</p>	Successful and operational	

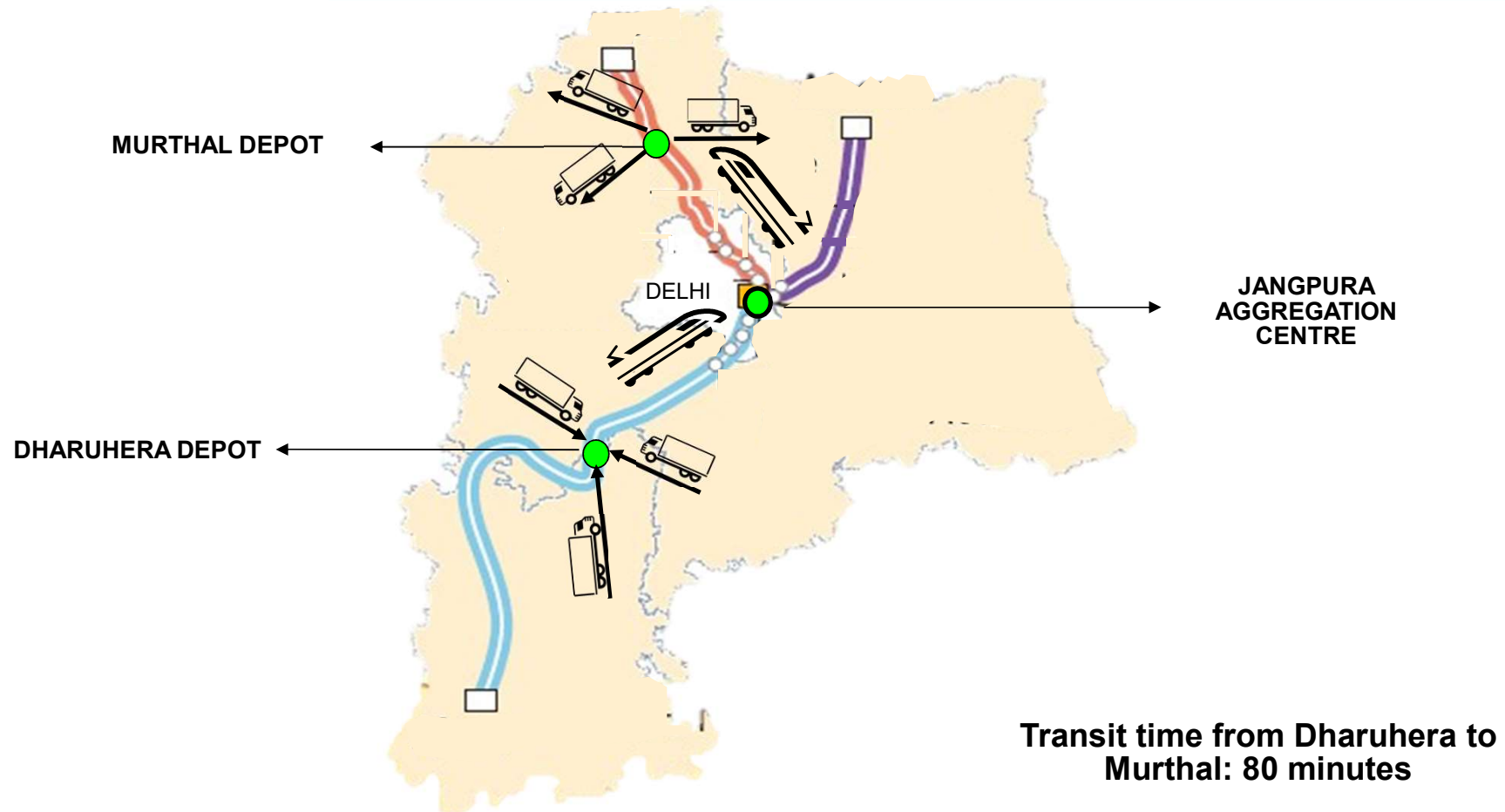
*RER - Réseau Express Régional

RRTS corridors are proposed along three major connections of Delhi with Haryana & Uttar Pradesh....

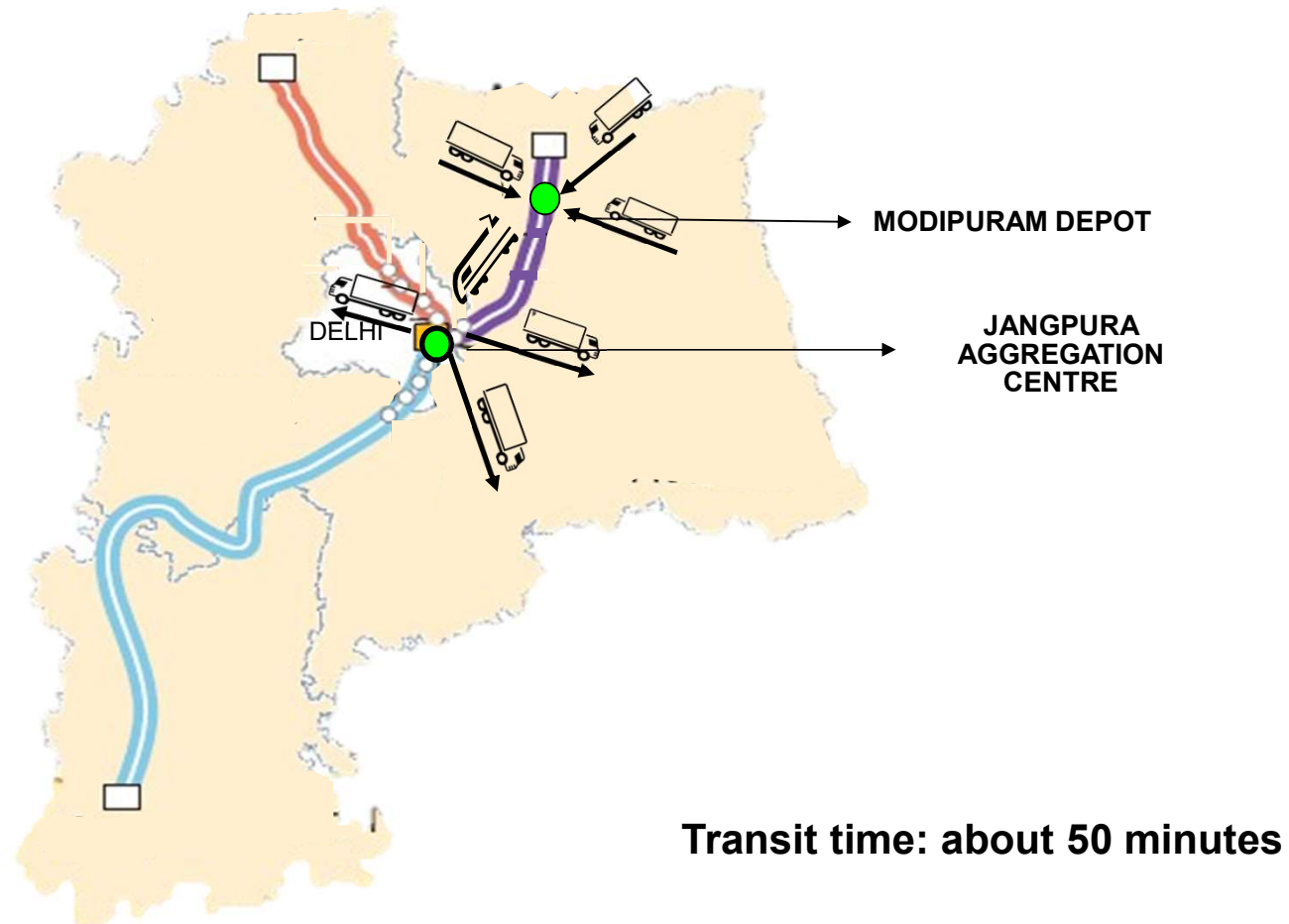


... depots are planned along each of the three RRTS corridors

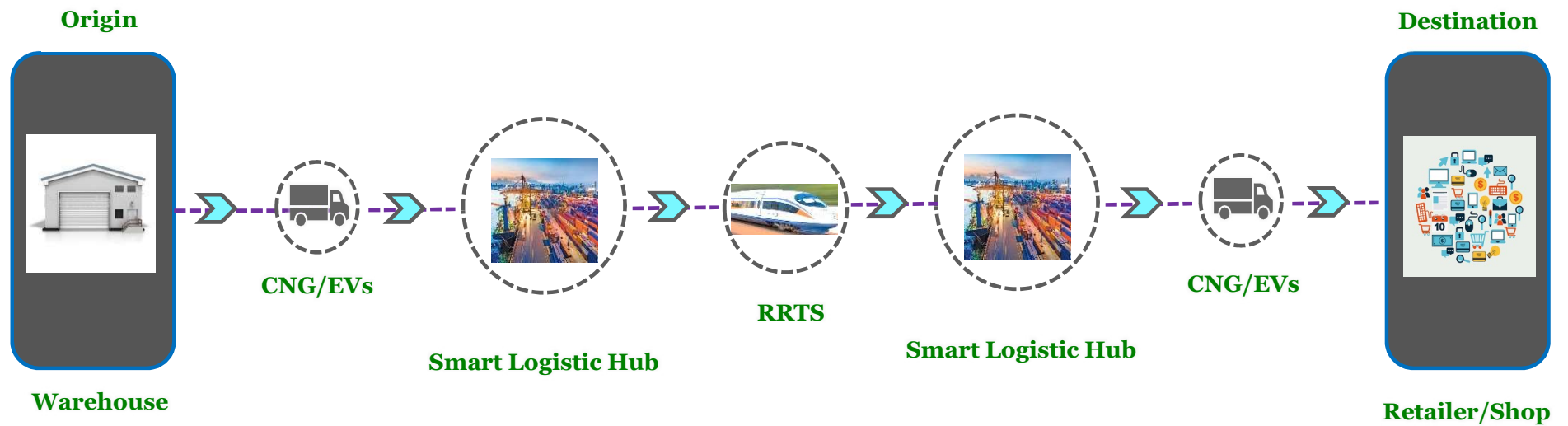
Illustrative RRTS supply chain from Dharuhera to Murthal



Illustrative RRTS supply chain from Modipuram to Jangpura



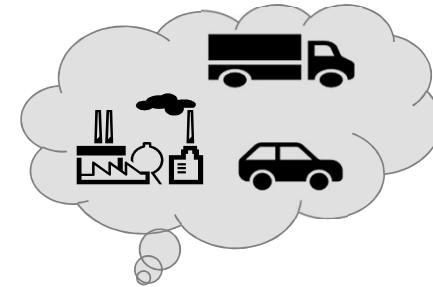
'Clean & Green Supply Chain' through RRTS



Why a Rail Logistics solution makes sense for NCR ?



Delhi is one of the most polluted and congested cities in the world



Regulators are already bearing down on truck traffic



Delhi NCR– A key consumption and distribution hub



There exist several issues in existing supply chains...



Pilferage



Lack of cold chain facilities



**Queuing of trucks and
congestion within city limits**



...which are expected to be resolved by Rail Logistics through RRTS



✓ Reduced transit time



✓ Seamless handling and storage



✓ Integration with first and last mile connectivity



✓ Free from government restrictions



✓ No pilferage/ losses during transit

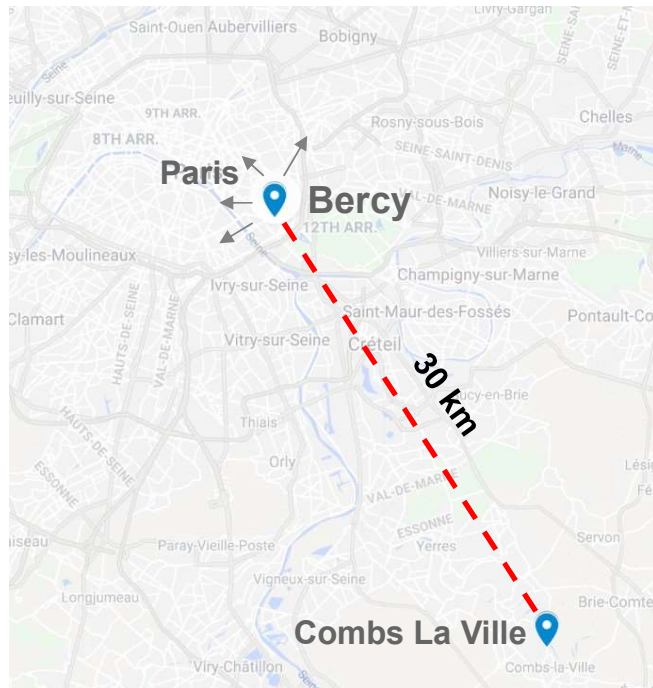
Thank You

Paris RER - Monoprix

Benchmarking in Urban Rail Freight Transport



Monoprix is a chain of supermarkets in Paris which aimed to save transportation costs and taxes by using rail transport to freight stock between its established warehouses in Bercy and Combs La Ville/Lieusaint






BERCY INTERCHANGE



FREIGHT RAILWAY-RER



Line Specifications	
Length	30km
Purpose	Seamless service to 90 outlets in Paris
Route	Bercy to Combs-La-Ville/Lieusaint
Commodities	  
Tonnage	210,000 pallets or 120,000 tn/year
Status	Successful and operational

Paris RER - Monoprix

Freight Supply Chain

