

Digital India



GOVERNMENT OF INDIA HOUSING AND URBAN AFFAIRS



**High Speed Railway and** its Station Area Development for Smooth Transfer with Urban Transit Systems

Friday, 2<sup>nd</sup> November 2018

Seiichiro AKIMURA **UR** JR-EAST GROUP Japan International Consultants for Transportation



### Introduction

- <u>20 to 30 %</u> of global CO2 emission: <u>from</u>
  <u>transport</u> in each city.
- <u>Transport: Secondary demand</u>, followed by various daily activities.
- <u>Best solution</u> to reduce transport emission: to realize "<u>short distance</u>" b/w home and places for daily activities
- <u>Better solution</u>: use <u>low carbon public transit</u>
  <u>systems</u>, shifting from private transportation



Ourban Mobility India

## **Basic unit of CO<sub>2</sub> emission** for Passenger and Cargo/Freight transportation

CONTENTS	Passenger	Cargo/Freight		
CONTENTS	g-CO <sub>2</sub> / passenger-km	g-CO <sub>2</sub> .ton-km		
Individual car/truck	141	1,159		
Commercial truck		240		
Airplane	98			
Bus	67			
Ship		39		
Railway	20	21		

Source: MLIT, Japan



#### Tokyo Station - No. of Lines and Passengers

Location	Туре	Operator	Daily passengers to get on/off (planned)
	Shinkansen	JR East ( 6 lines)	157,236
The Chatien	(Bullet Train)	JR Central (1 line)	195,600
In-Station	Conventional Railway	Railway JR East (10 lines)	
		1,257,934	
	Bus, Taxi, Indv. Car	Iv. Car Public & Private	
Station+	Metro (Subway) Tokyo Metro (1 Line)		211,558
		1,232,558	
Station	Motro (Subwov)	Tokyo Metro (5 Lines)	653,845
Station	Metro (Subway)	Tokyo Metropolitan Gov. (1 Line)	94,834
Area	9	748,679	
	3,239,171		

Source: JR East, JR Central, Tokyo Metro, Tokyo Metropolitan Government, etc.





#### In-Station, Station+ & Station Area

Urban Mobility India

11<sup>th</sup> Conference & Expo 2018



•	•	Contents	land area (m2)	Building Heght (m)		
	In-Station		92,400			
		Marunouchi Entrance	43,300	46.1		
	Station 1	Yaesu Emntrance	30,360	205		
	Station+	Others	101,740			
		Station+ Total	175,400			
	Station Area		899,200			
		Total	1,167,000			



#### Sale of the unnecessary "Transferable Development Rights" (TDR)



#### Two (2) different Functions combained in the Station-front





## A Good Example of the Plan for Station plaza from Japan's Experience

#### Railway Passengers can transfer in a minimum time





nference & Expo 2018

#### Example of Ahmedabad Junction

- Parallel typed facilities arrangement with combined two functions causes Traffic Jam.
- Long distance to walk b/w parking lot and station is inconvenient for passengers











#### Potential Tourism Development in India

Contents	No. of visits in Japan (in-bound)		Japan's National	No. of Visits in India (in-bound)		India's National	
	Tourism*	Business*	tourists*	population	tourist	tourists	population
satistic value (million in 2015)	1,755.3	230.4	41.1	127	1,432.0	23.3	1,259
No. per capita	13.81	1.81	0.32		1.14	0.02	
magnification in India's value = 1	12.1		17.5		1	1	

\* provisional values

Source for Japan: Tourism Statistics and the National Census

Source for India: India Tourism Statistics at a Glance 2017 and the National Census

















MINISTRY OF HOUSING AND URBAN AFFAIRS

## Thank you for your Attention!! Seiichiro AKIMURA **UR JR-EAST GROUP** Japan International Consultants for Transportation











MINISTRY OF HOUSING AND URBAN AFFAIRS

# Thank you for your Attention!!

#### Seiichiro AKIMURA

## **URJR-EAST GROUP**

Japan-India Collaboration

