

HITACHI Railway Systems

High Speed Rail for India

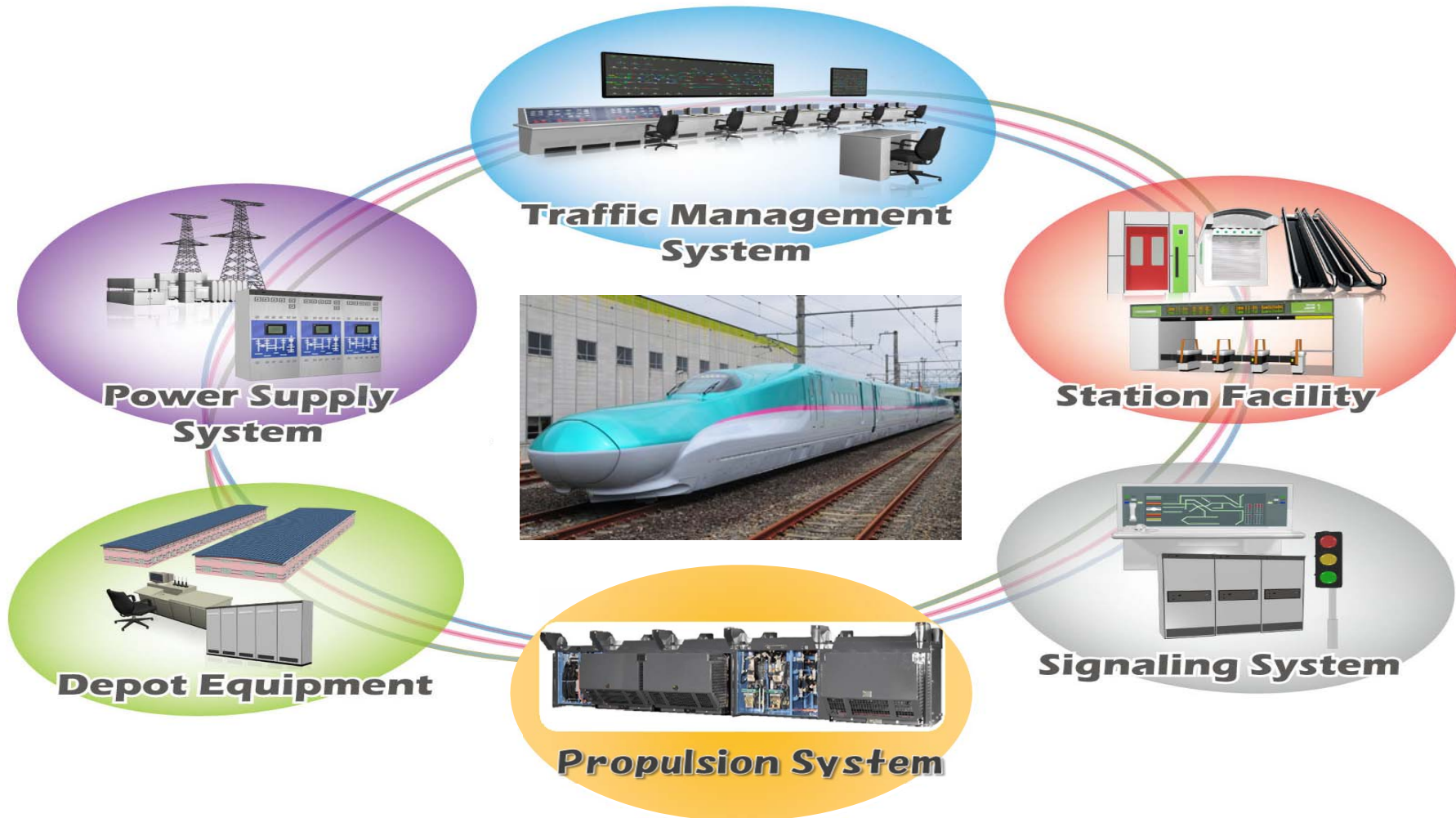


11 Feb. 2013
Hitachi, Ltd.

1. Total Solution Provider for Shinkansen
2. Global Supply Record
3. Overseas Experience in Rolling Stock for HSR
4. Overseas Experience in Signalling System for HSR
5. Our Plan to introduce HSR to India
6. Hitachi's Presence in India
7. Contribution to India

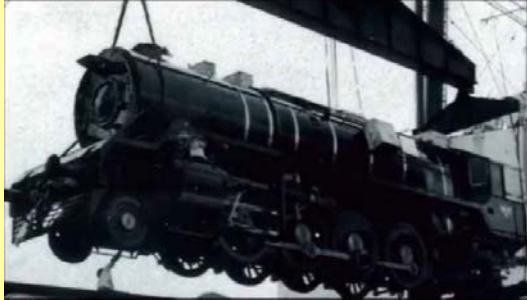
1. Total Solution Provider for Shinkansen

Provide the Total Solution with Shinkansen High Speed Rail

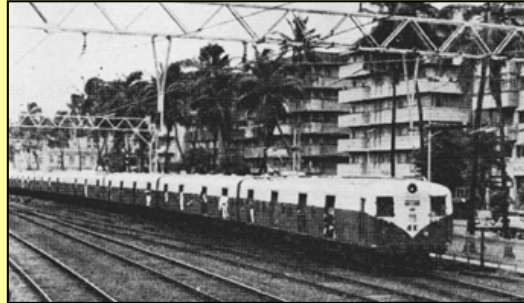


2. Global Supply Record

India



Steam Locomotive (1953)



Electric Multiple Unit (1957)



Electric Locomotive (1988)



Tilting Train Express
(Taiwan)



Palm Jumeirah Monorail
(Dubai, UAE)



Nooriro Express
(South Korea)



Class 395 High Speed Train
(UK)

Contract Award in 2012 !!

**Intercity Express Programme
in UK**



3. Overseas Experience in Rolling Stock for HSR (Class 395)

Complying with the UK & European standards and requirements based on Japanese Technology



- Quantity : 174 cars (6car x 29 trains)
- Maintenance contract : Max 35 years
- Runs on both high speed and conventional routes

<Achievements>

+ On-time Delivery

Entered passenger service
6 months earlier than the original schedule

+ High Reliability

Top level MDBF in UK

+ Excellent Passenger Satisfaction

90% passengers are satisfied with
Class 395 (Source: Modern Railways Nov. 2009)

Successful delivery of Class 395
led to another big contract

3. Overseas Experience in Rolling Stock for HSR (Class 395)

Played a great role in the London Olympic 2012, as a shuttle express train between St. Pancras and the Olympic Park



The US National Basket Ball Team in Class 395

<Achievements>

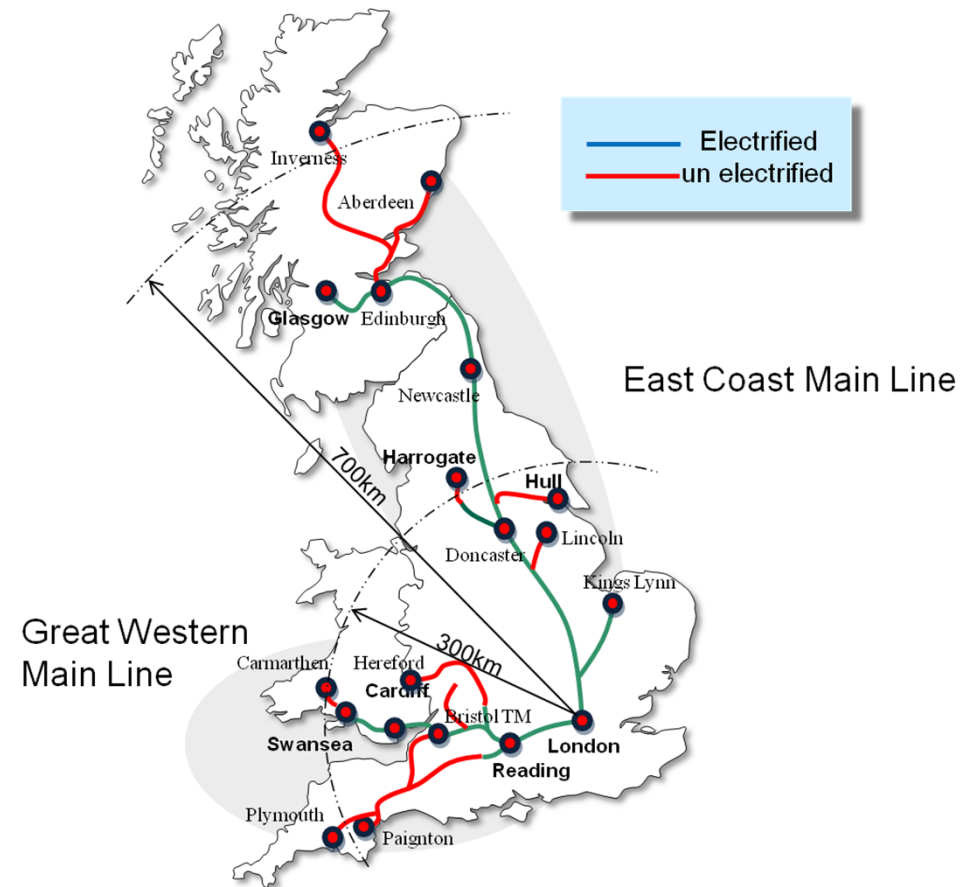


Successful delivery of Class 395
led to another big contract

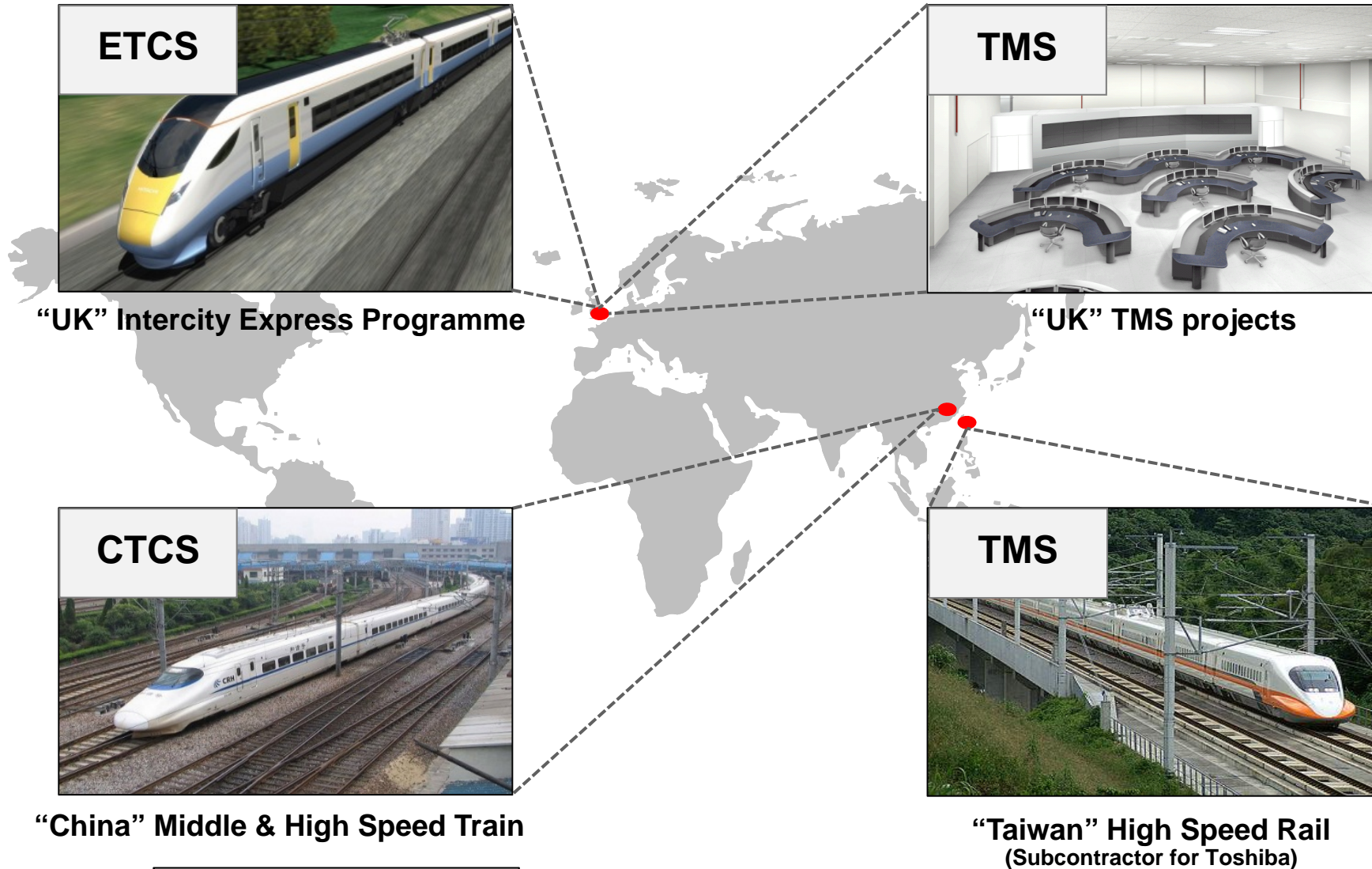
3. Overseas Experience in Rolling Stock for HSR (IEP)

Intercity Express Programme (IEP)

- ◆ Train manufacturing (596 vehicles + option)
- ◆ Maintenance
12 depots in total (Includes 5 new depots)
Maintenance period of 30 years
- ◆ Project Value
4.5 Billion GBP



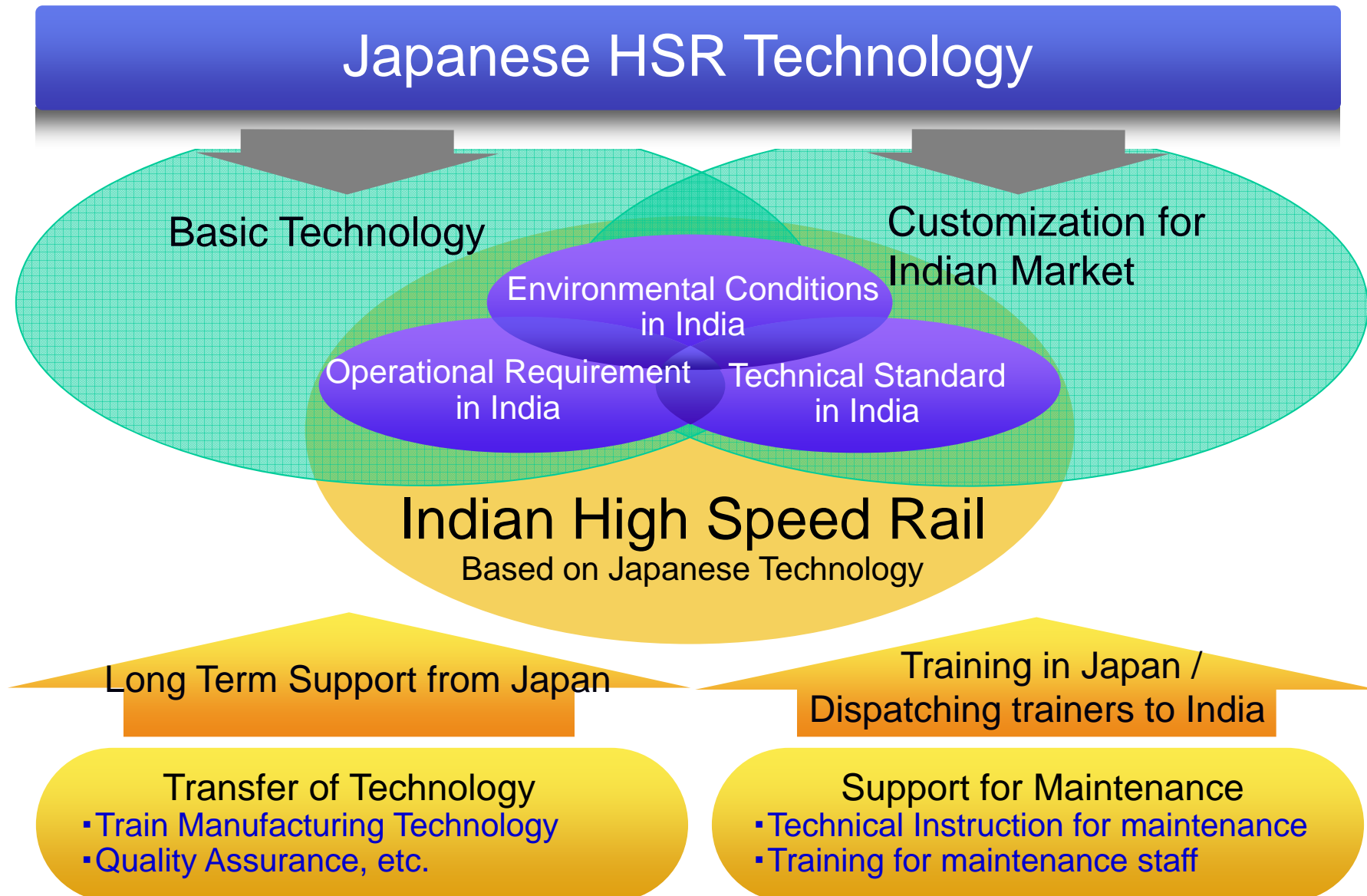
4. Overseas Experience in Signalling System for HSR



TMS : Train Management System
ETCS : European Train Control System
CTCS : Chinese Train Control System

Confidential

5. Our Plan to introduce HSR to India



6. Hitachi's Presence in India

Hitachi Group Operations in India

Gurgaon / Manesar

- **Hitachi High Technologies ***
Instruments, Electronic Components
- **Hitachi Metglas (India)**
Amorphous Metal Products
- **Hitachi Metals (India)**
Metal Products

Ahmedabad

- **Hitachi Home & Life Solutions (India)**
Air Conditioners, Refrigerators
- **Hitachi HiREL Power Electronics (HHPE) Power Electronics Products**

Mumbai

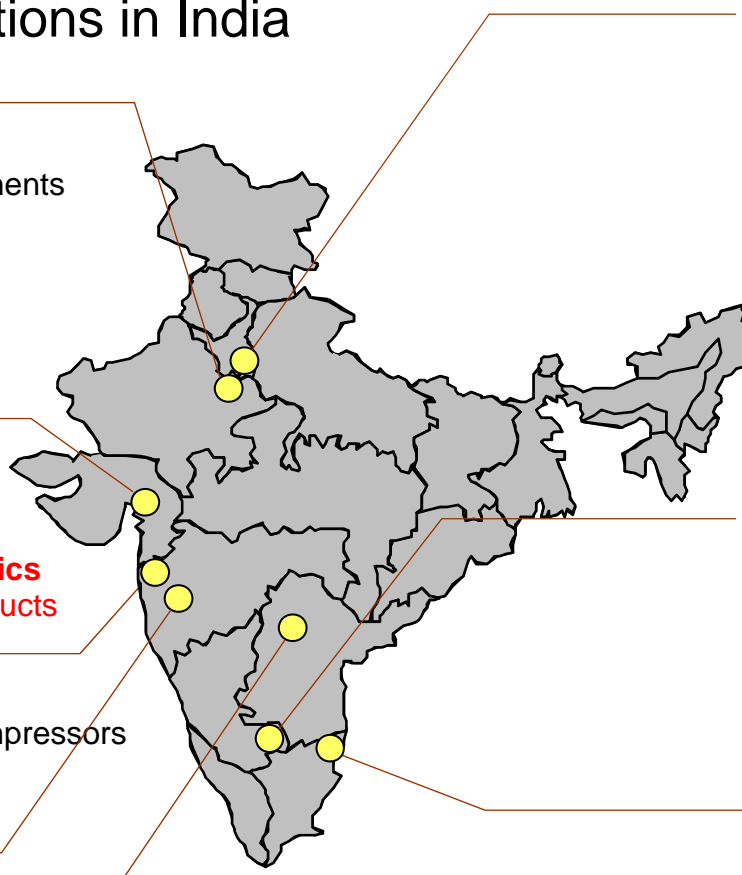
- **Hitachi Plant Technologies ***
Water Treatment Systems, Compressors
- **Flyjac Logistics**
Logistics

Pune

- **Hitachi Consulting India**
Consulting

Hyderabad

- **Hitachi Consulting Software Services India (Sierra Atlantic)**
Software



Delhi

- **Hitachi India**
Infrastructure Systems etc
- **Hitachi Lift India**
Elevators & Escalators.
- **Hitachi Transport System India**
Logistics
- **Hitachi Chemical (Thailand)***
Sintered Automotive Parts etc.
- **Quality Life Enterprise India**
Hotel
- **Allied JB Friction ****
Brake Friction Material

Bangalore

- **Hitachi Data Systems India**
Data Storage Systems
- **Hitachi Koki India**
Power Tools
- **Telco Construction Equipment**
Construction Machineries
- **Hitachi NeST Control Systems**
Control Software

Chennai

- **India Nippon Electricals ****
Spark Plugs for Automobiles
- **BGR Turbines ****
Turbine Generators
- **BGR Boilers ****
Boilers
- **Aloka Trivitron Medical Technologies**
Diagnostic imaging devices
- **Vantec Logistics**
Logistics

● Sales • Service ■ Manufacturing • Sales • Service
(* : Branch Office, ** : Joint Venture of minority share)

Confidential

7. Contribution to the Development of India





HITACHI
Inspire the Next

Thank you so much for your kind attention