JICA's activities in India

Supporting Indian's development by Nonwovens

November 7th ,2019

JICA India

India - Japan Relations

- Both established *Special* Strategic and Global Partnership.
- For India, Japan is the largest bilateral development partner.
- For Japan, India is the oldest partner of ODA.

- Apr. 1952 Established official diplomatic relations
- 1958 Japan's first ODA Loan in the world extended to India.
- Aug. 2000 **"Japan-India Global Partnership in the 21st Century"**
- Apr. 2005 Japanese PM Koizumi visited India. Annual based PMs mutual visits started.
- Dec. 2006 **"Joint Statement Towards Japan-India Strategic and Global Partnership"**
- Sept. 2014 Indian PM Modi visited Japan. **"Tokyo Declaration for Japan-India *Special* Strategic and Global Partnership"**

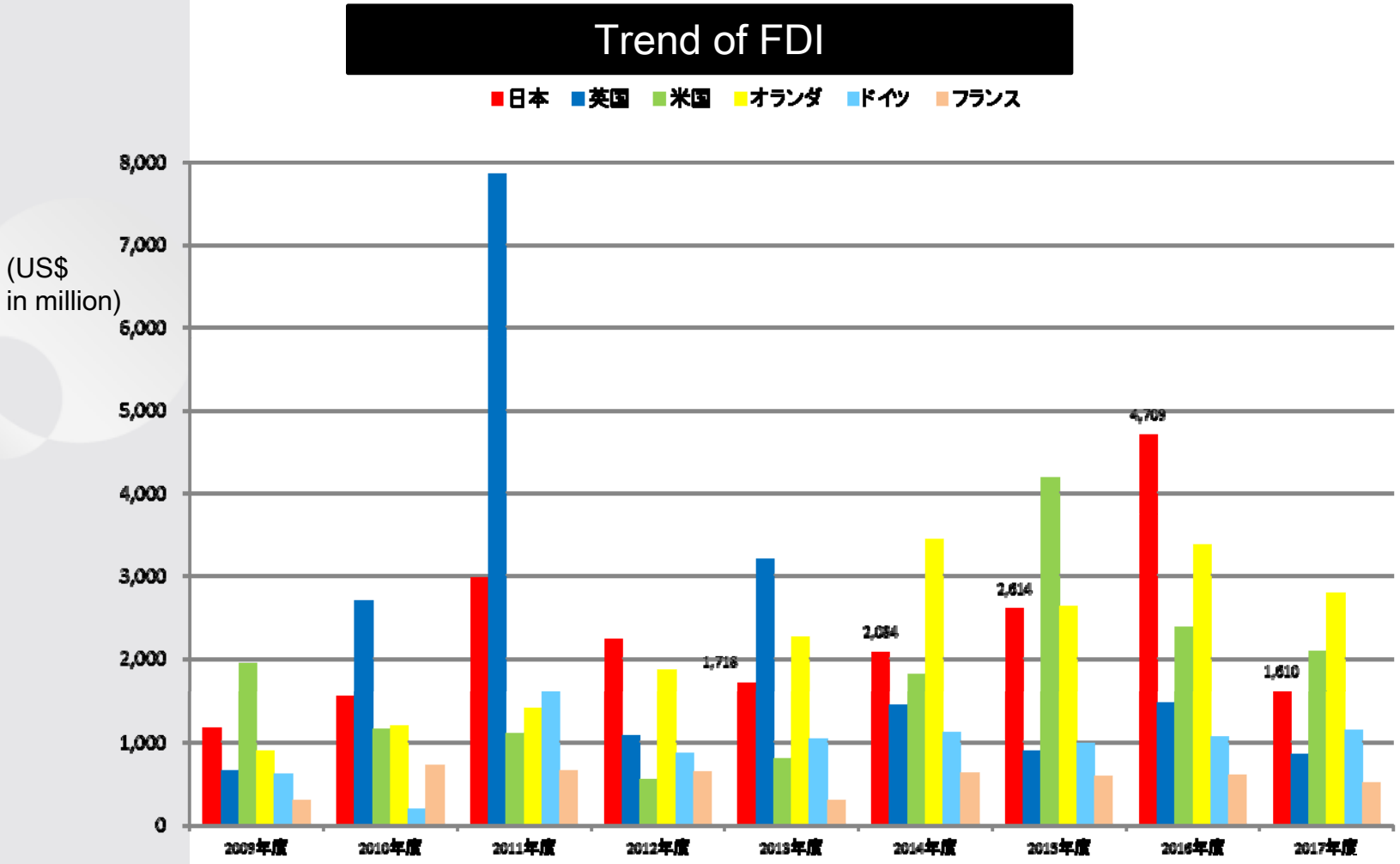
  a) Doubling Japan's foreign direct investment in India within five years.

  b) Doubling the number of Japanese companies in India within five years.

  c) JPY 3.5 trillion (Rs. 2 trillion) of public and private investment and financing to India from Japan, including ODA, within five years.
- Sept. 2017 Japanese PM Abe visited India (Commencement ceremony of HSR in Ahmedabad)
- Oct. 2018 Indian PM Modi visited Japan (Tokyo and Yamanashi).

Japan's Foreign Direct Investment to India

-

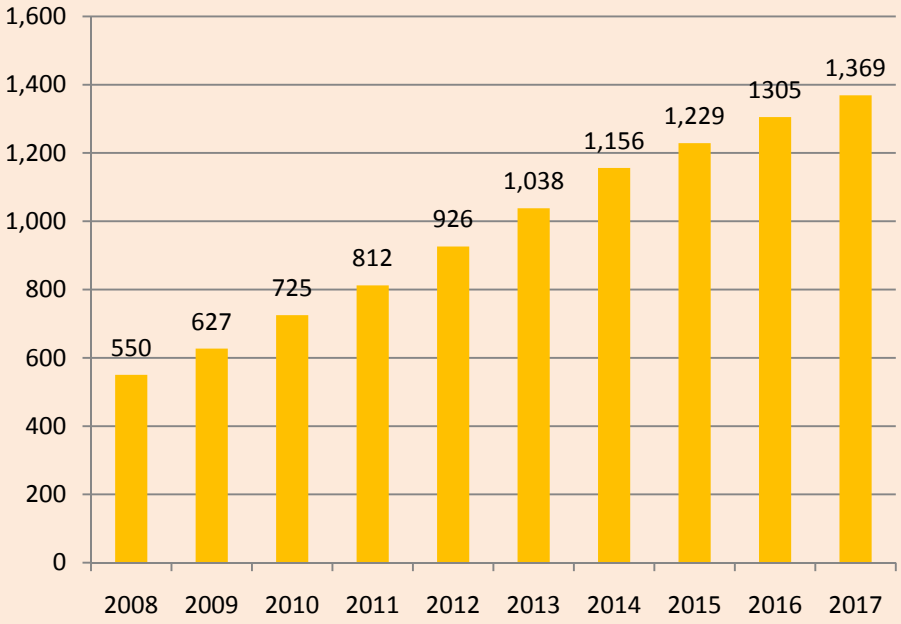


(Source) GOI

Expanding Relationship – Japanese Companies/Citizens in India

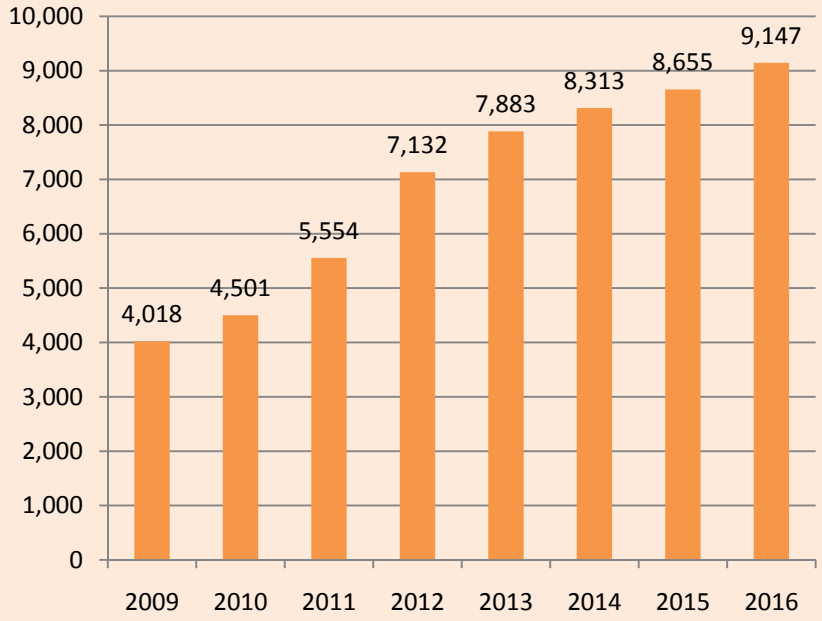
- More than 1,300 Japanese companies have started business in India.
  (approx. 2.5 times more than 10 years ago)
- Japanese citizens living in India have doubled in 10 years

Japanese companies in India
As of Dec. 2017



http://www.in.emb-japan.go.jp/Japanese/2017_co_list_jp.pdf

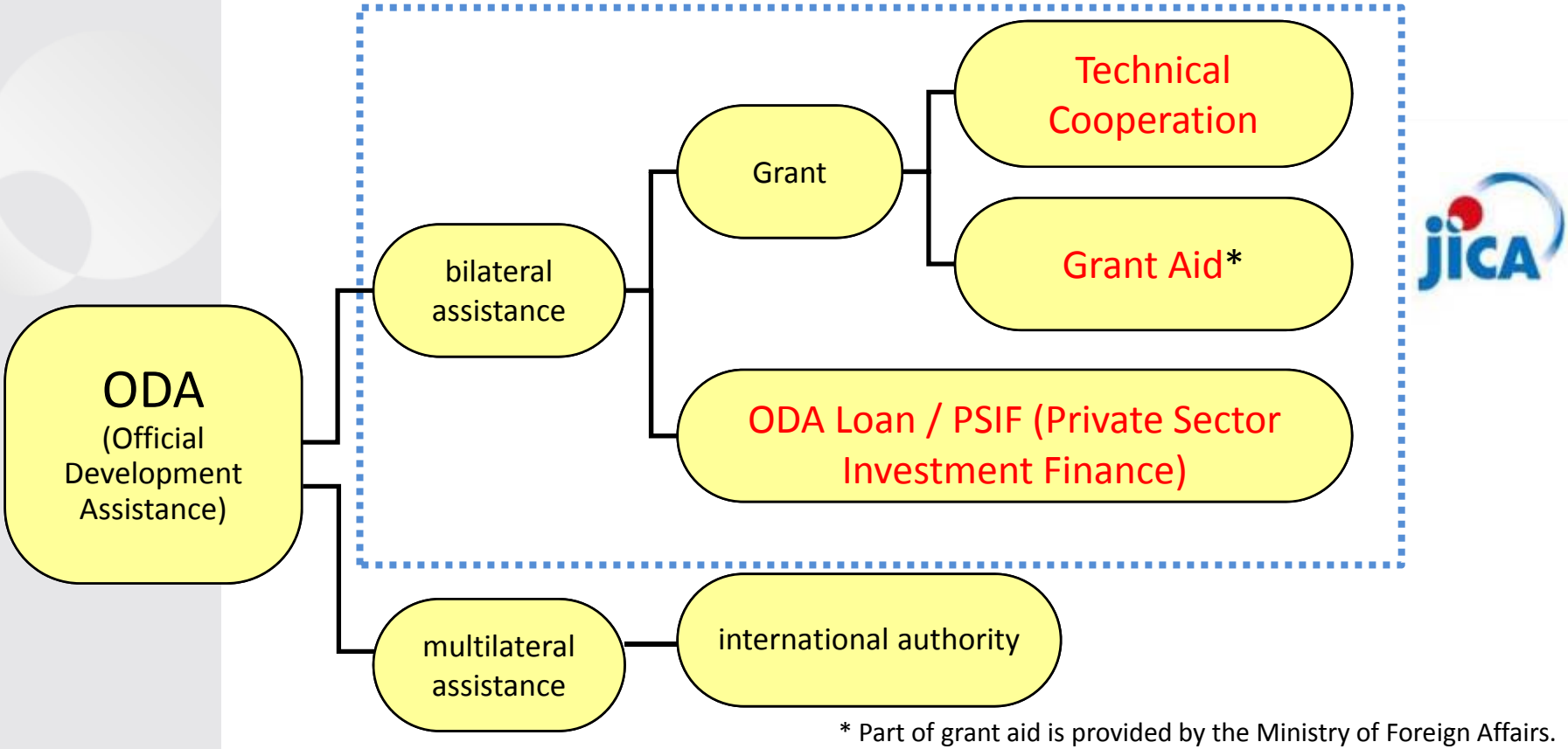
Japanese living in India
As of Oct. 2017



https://www.mofa.go.jp/mofaj/files/000368753.pdf

What is "JICA"?

- ✓ **JICA** is a **governmental agency** of Japan that implements official development assistance (ODA).
- ✓ JICA, the world's largest bilateral aid agency, works in over 150 countries and regions and has some 100 overseas offices.



* Part of grant aid is provided by the Ministry of Foreign Affairs.

JICA at a glance

Japan International Cooperation Agency

- President: Shinichi Kitaoka
- Establishment: August 1974 Reorganized 2008
- Staff: 1,827 (Full time)
- Recipient Countries: 150
- Overseas Offices: 92
- Offices in Japan: HQ (Tokyo) and 17 sites

JICA's Vision

Inclusive and Dynamic Development

Mission 1

Addressing Global Agenda

Mission 2

Reducing Poverty through Equitable Growth

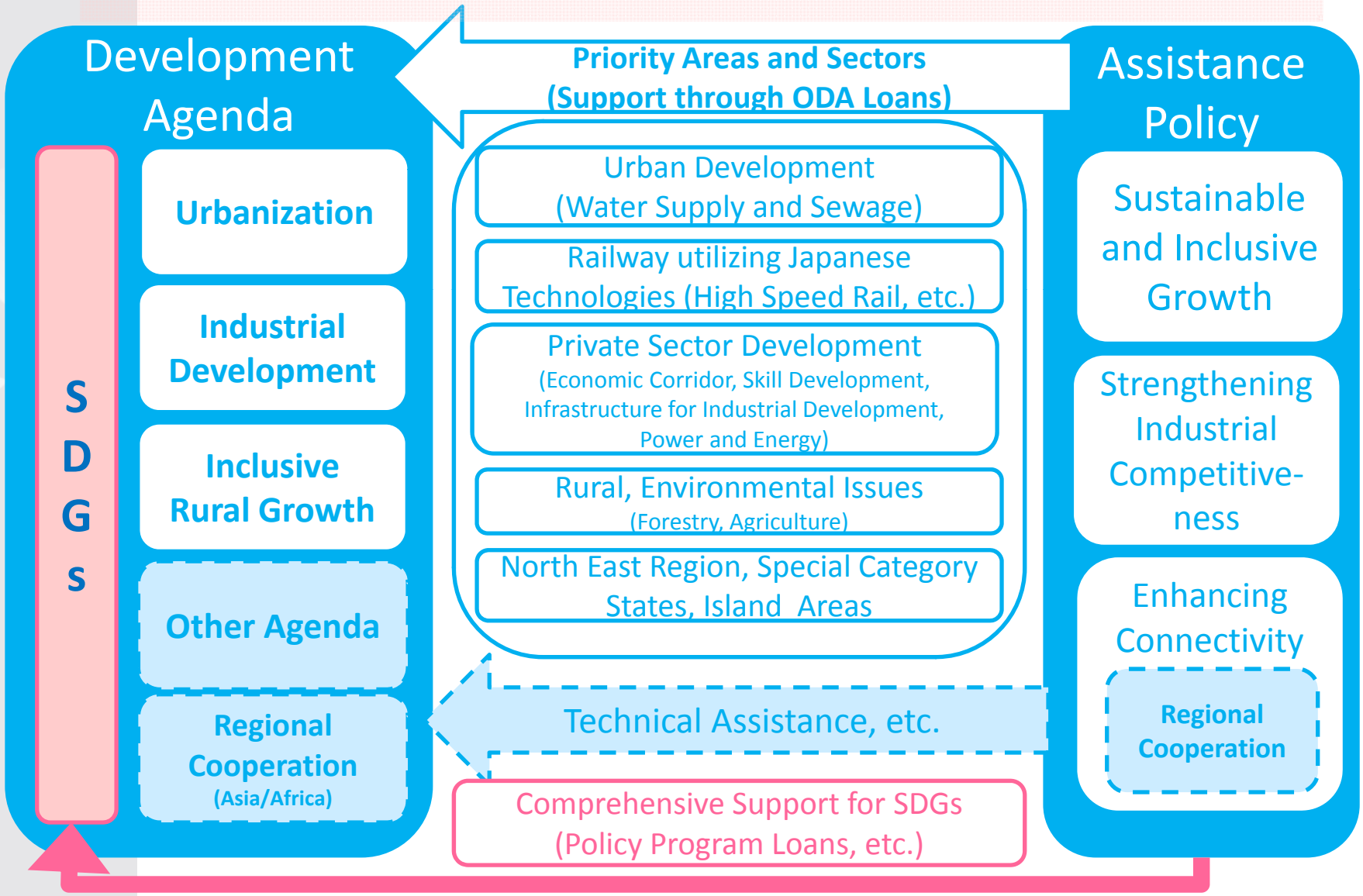
Mission 3

Improving Governance

Mission 4

Achieving Human Security

JICA's Contribution to Development Agenda of India



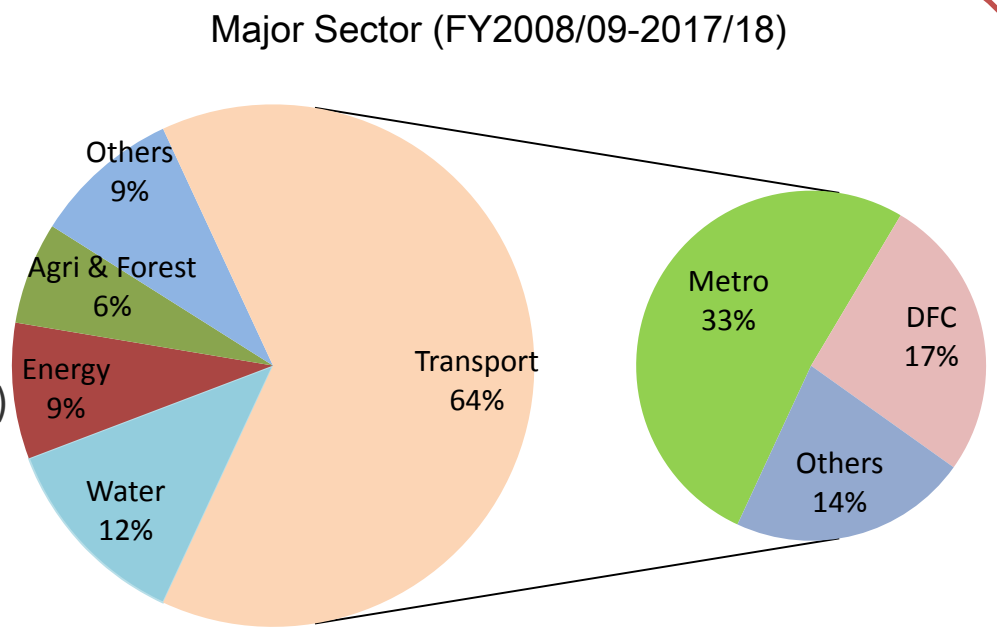
JICA Country Analysis Paper (JCAP) FY 2017

India is JICA's Largest Development Partner

Soft Loan

Accumulated Commitment by FY2017/18:
- JPY 5.3 trillion in total
  (equivalent to over Rs. 3 lakh crore)

Operational Results in FY2017/18:
Commitment: JPY 398.4 billion
(equivalent to about Rs. 25,000 crore)
Disbursement: JPY 264.3billion
(equivalent to over Rs. 16,000 crore)



Terms and conditions: (as of Jan. 2018)
- General terms: Interest rate 1.5%, repayment period 30 years (including 10 years grace period)
- STEP: Interest rate 0.1%, repayment period 40 years (including 12 years grace period)

Grant Aid

Two on-going projects
in
Varanasi & Bengaluru

Technical Cooperation

・ Results in FY 2016/17
JPY 16.0 billion (about Rs. 850 crore)

About 1100 Japanese experts to India
About 250 Trainee from India to Japan

Citizen Partnership / Public-Private Partnership

- Japanese Volunteers
- Japanese NGO activities
- Partnerships with Private-Sector Activities

Cooperation on Metro Projects

JICA has been supporting metro projects in 6 major cities in India

Ahmedabad Metro

- Total Length: 38 km
- Project Cost: JPY 246 Billion (about Rs. 15,000 crore)
- Completion Year: 2020
- Under Construction

Delhi Metro

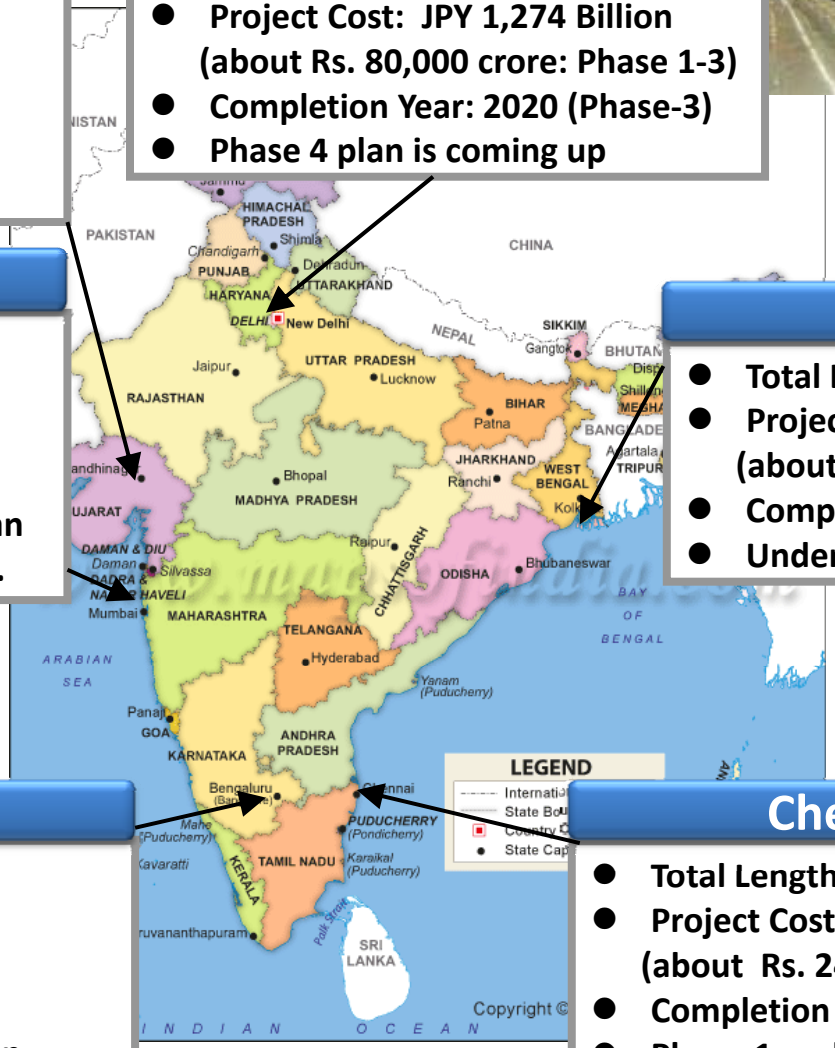
- Total Length: 351km
- Project Cost: JPY 1,274 Billion (about Rs. 80,000 crore: Phase 1-3)
- Completion Year: 2020 (Phase-3)
- Phase 4 plan is coming up

Mumbai Metro

- Total Length: 34 km
- Project Cost: JPY 621 Billion (about Rs. 39,000 crore)
- Completion Year: 2021
- Under Construction. New plan for Line 2 and 4 is coming up.

Kolkata Metro

- Total Length: 16 km
- Project Cost: JPY 140 Billion (about Rs. 9,000 crore)
- Completion Year: 2021
- Under construction



Bangalore Metro

- Total Length: 42 km
- Project Cost: JPY 307 Billion (about Rs. 19,000 crore)
- Completion Year: 2017
- Phase-2 is under construction

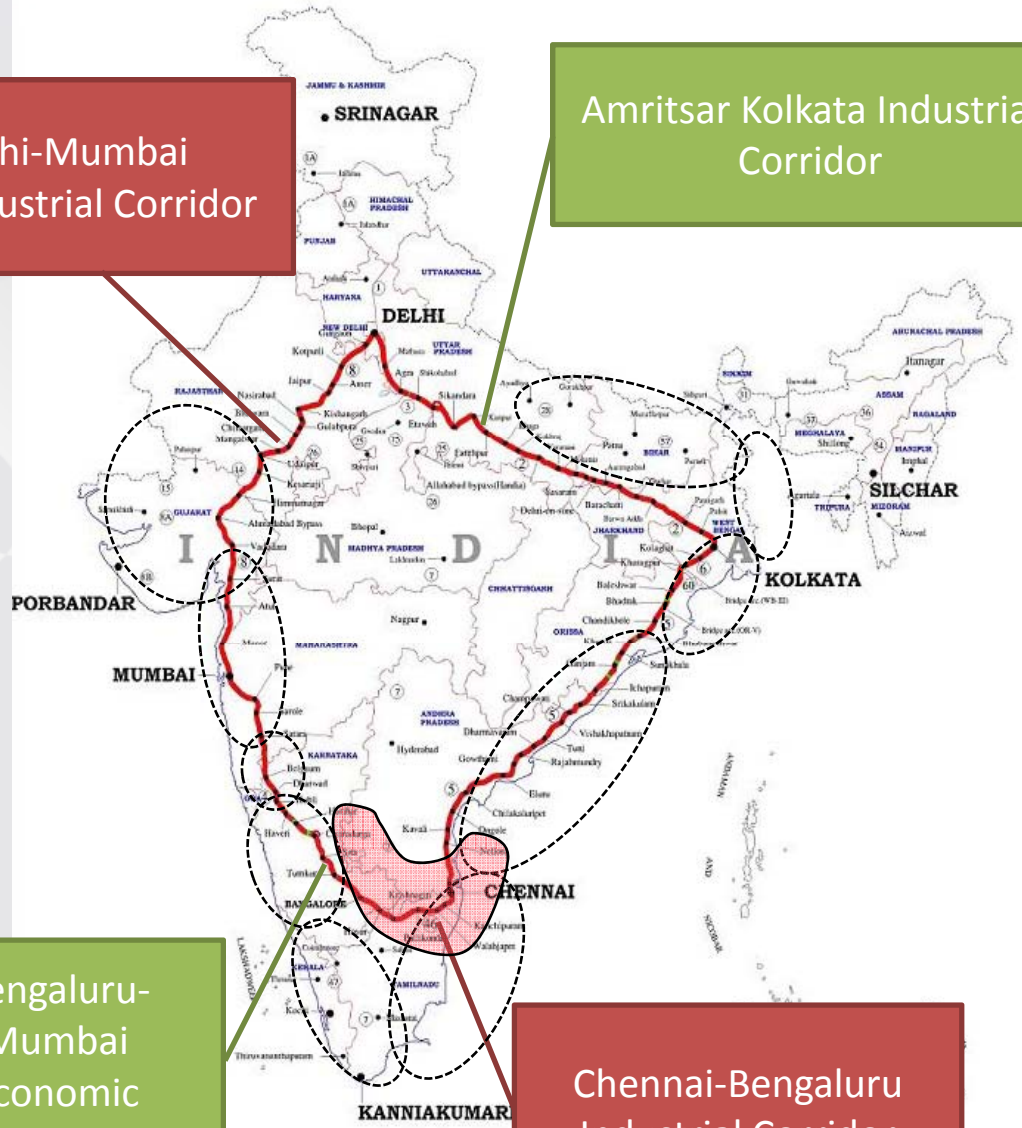
Chennai Metro

- Total Length: 53 km
- Project Cost: JPY 386 Billion (about Rs. 24,000 crore)
- Completion Year: 2020 (Phase-1)
- Phase-1 under construction

Industrial Corridors under Development (DMIC & CBIC)

Delhi-Mumbai Industrial Corridor

Amritsar Kolkata Industrial Corridor



Bengaluru-Mumbai Economic Corridor

Chennai-Bengaluru Industrial Corridor

DMIC and CBIC are being supported by GoI and GoJ.

National Manufacturing Plan Targets

- *~15% y-o-y* growth in manufacturing sector to achieve *25%* contribution to GDP by 2022
- *100 million* jobs by 2022
- *Skill development* for inclusive growth
- Improved *technology* orientation *& value addition*
- Global Competitiveness
- Environmental sustainability

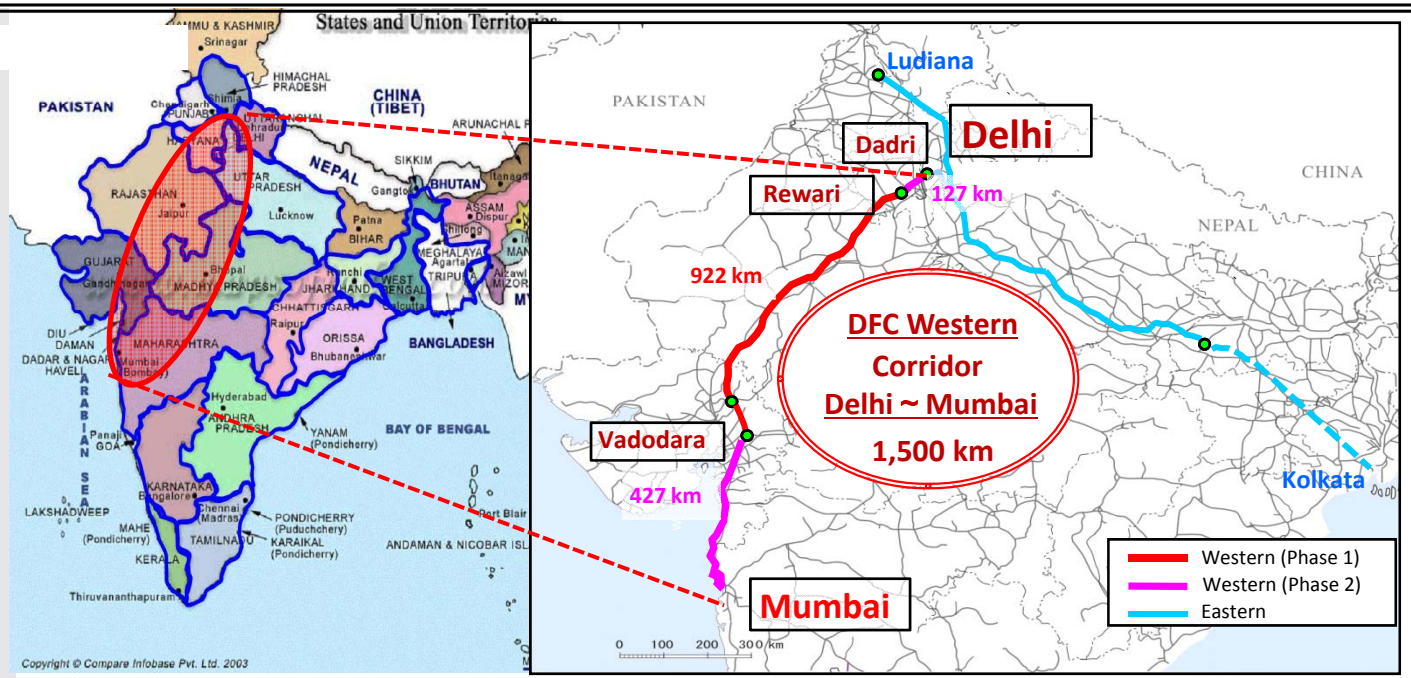
WDFC

- The **backbone of DMIC** (Delhi-Mumbai Industrial Corridor)
- WDFC (**Delhi–Mumbai: 1,500 km**) will focus on:

  (1) construction of **new dedicated freight lines**

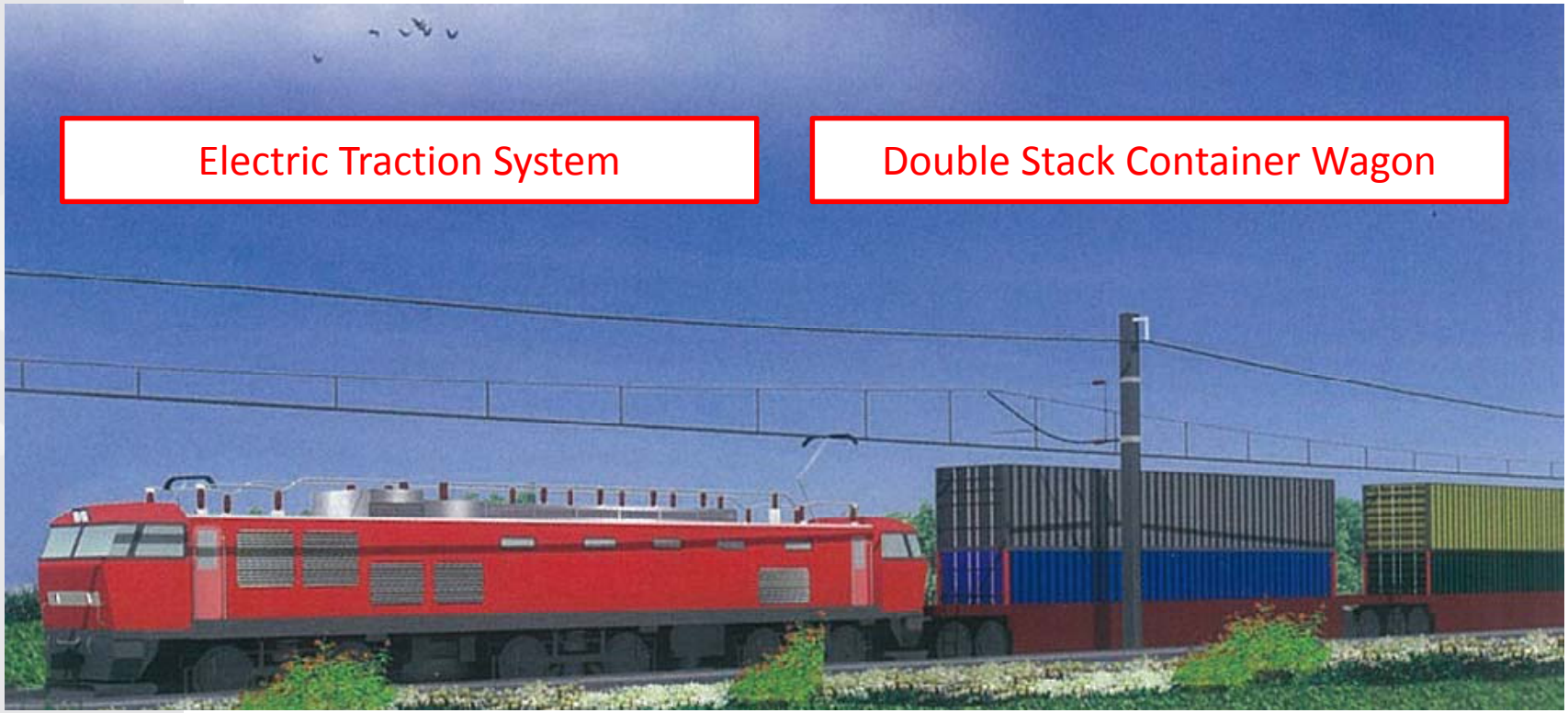
  (2) installation of **automated signal & telecommunication**

  (3) introduction of **electric locomotives** with high-speed & high-capacity transportation
- Construction is underway (Almost all tendering are completed)



Western Dedicated Freight Corridor (DFC) Project

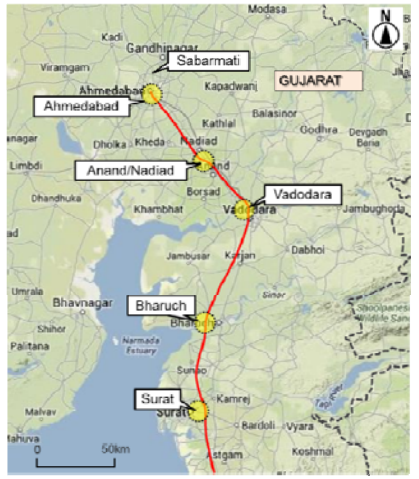
<Completion image>



	DFC		NOW
Maximum speed	**100 km / h**	⟸	30 - 40 km / h (approximately)
Transport time (Delhi – Mumbai)	**20 hours (approximately)**	⟸	48 - 72 hours

MAHSR

- **Joint Feasibility Study** (F/S) conducted by JICA and Ministry of Railway from Dec. 2013 to July. 2015.
- Both sides confirmed the use of **Japanese high speed rail technologies (i.e. the SHINKANSEN system)** and experiences, in line with the result of the joint F/S at the Japan-India Summit Meeting (December 2015).
- **Follow-Up Study** conducted by JICA from Mar. 2016 to Feb.2018
- In the latest Japan-India Summit Meeting (September 2017), the two Prime Minister welcomed:
  (1) Steady progress, including the **project commencement at the Sabarmati Station**, witnessing the **construction commencement of training institute in Vadodara**
  (2) Provision for a soft **ODA loan amounting to JPY 100 billion**
  (3) Business matching efforts to establish Japan-India cooperation for advancing "**Make in India**" and **technology transfer** HSR projects
- JICA has been providing with utmost **technical support** (for CD);
  - ✓ Formulation of **technical standards**,
  - ✓ **Safety certification** measures,
  - ✓ Strengthening the **institutional capacity of NHSRCL**
  - ✓ Urban development planning of stations and surrounding areas for **enhancement of the connectivity** and **non-fare revenue**, etc.



Energy Sector

Core for Economic Growth & Livelihood

- Recent ODA Loan Projects -

- Haryana Transmission System Project （ FY2007 ）
- Haryana Distribution Upgradation Project （ FY2013 ）

- Madhya Pradesh Transmission System Modernisation Project (FY2011)
- Madhya Pradesh Transmission System Strengthening Project (FY2015)

- Maharashtra Transmission System Project （ FY2007 ）

- Bangalore Distribution Upgradation Project （ FY2006 ）

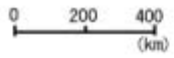
- Tamil Nadu Transmission System Improvement Project (FY2012 ）

- Dhauliganga Hydroelectric Power Plant Construction Project (FY1996 ~ FY2004) (Uttarakhand)

(West Bengal)
- Bakreswar Thermal Power Station Project (FY2002)
- Purulia Pumped Storage Project (FY1994, FY2004,FY2005)

- Odisha Transmission System Improvement Project (FY2015)

- Transmission System Modernization Project in Hyderabad (FY2006)
- AP Rural High Voltage Distribution System Project (2010)
- Simhadri Thermal Power Station Project (FY1997, FY2001, FY2002, FY2003)



(More than two States)
- Rural Electrification Project （ FY2005 ）
- New and Renewable Energy Development Project(FY2011, FY2014)
  Micro, Small and Medium Enterprises Energy Saving Project (FY2008, FY2011, FY2014)

Legend
- Generation
- Transmission and Distribution

Water Sector Comprehensive assistance by utilizing Japanese knowledge

Issues

①Demand / supply gap

•Only a few hours of water supply can be provided per day, even in urban areas
•Further increase in demand is inevitable due to the growth of population and economic development

②Financial vulnerability in water-supply corporations

•NRW* ratio is 52% in Delhi and 51% in Bengaluru, compared to 4% in Tokyo**

*the difference between the water distribution volume and the billed volume
** Japan Water Research Center Dec 2017

③Environmental, sanitary and health issues

•Decrease of groundwater levels and contamination of water by toxins such as arsenic and fluorine
•Contamination of rivers due to lack of sewerage system, leading to health hazards such as diarrhea and hepatitis

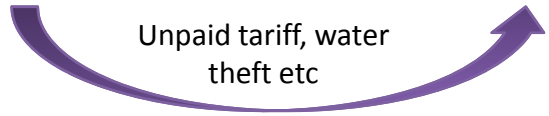
Low Quality of Service

- Intermittent water supply: Only 1-6 hours of supply in major cities
- Low water pressure: The need of electric water pumps
- Water contamination: Infiltration of wastewater into the water pipes

A vicious circle

Vulnerable financial structure

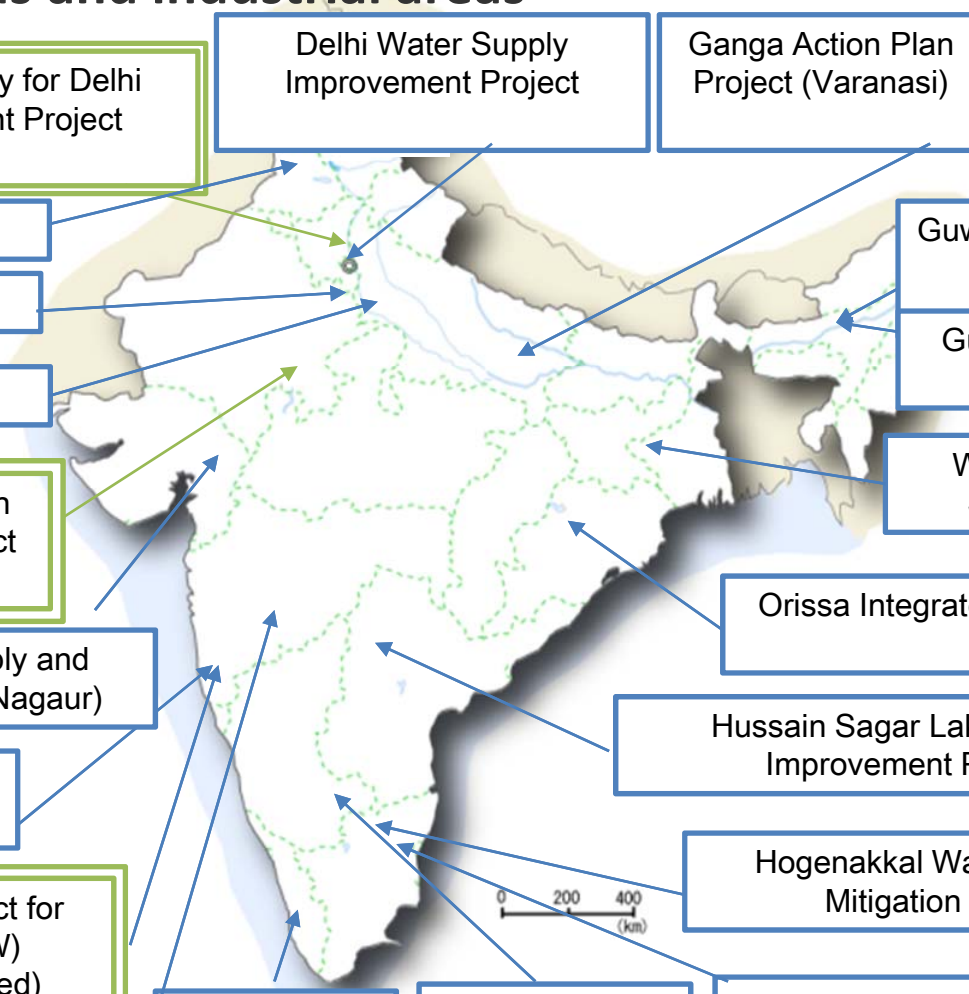
•Water tariff: Rs.6/kL ~ 36/kL
•Charge collection ratio: Below 50% in some cities
•Non-revenue water ratio: Over 40%



A countermeasure for non-revenue water: water leakage detection

Water Sector Comprehensive assistance in major cities by utilizing Japanese knowledge

Improving water and sewerage infrastructure mainly in metropolitan areas and industrial areas



- Strengthening O&M capacity for Delhi Water Supply Improvement Project (Completed)
- Delhi Water Supply Improvement Project
- Ganga Action Plan Project (Varanasi)
- The Study for Formulation and Revision of Manuals on Sewerage and Sewage Treatment (Completed)
- Amritsar Sewerage Project
- Yamuna Action Plan Project
- Agra Water Supply Project
- Guwahati Water Supply Project
- Guwahati Sewerage Project
- West Bengal Piped Water Supply Project (Purulia)
- Non-revenue Water Reduction for Jaipur Water Supply Project (Completed)
- Orissa Integrated Sanitation Improvement Project
- Rajasthan Rural Water Supply and Fluorosis Mitigation Project (Nagaur)
- Hussain Sagar Lake and Catchment Area Improvement Project (Completed)
- Goa Water Supply and Sewerage Project
- Hogenakkal Water Supply and Fluorosis Mitigation Project (Completed)
- Capacity Development Project for Non-Revenue water (NRW) Reduction in Goa (Completed)
- Project for Pollution Abatement of River Mula-Mutha in Pune
- Kerala Water Supply Project (completed)
- Bangalore Water Supply and Sewerage Project
- Tamil Nadu Urban Infrastructure Project (Completed)

Double line：Technical Assistance
Single line：Yen Loan

Improving Business environment: Gujarat Investment Promotion Program (GIPP)

Program Implementation Unit

Finance Department/ Industry Department, GoGJ

L/A signing: Sept. 2017 (Program term: FY2016– FY2018)
L/A amount: JPY 16,825 million (INR 967 Cr.)

Policy Actions

- PPP promotion
- Industrial Development
- Single window system
- Administrative process
- Skill development
- Infrastructure Development

Major achievements/ Targets

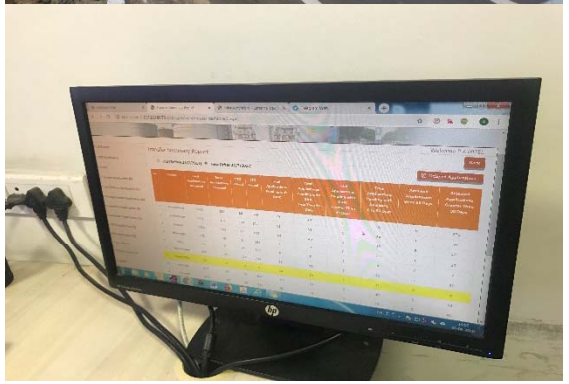
-Capacity building on PPP infrastructure
-Upgradation of Single Window Clearance System
-Establishment of Policy Research Cell in Industry Dept.
-Infra-Developments (Road, Water Supply and etc.)
-Establishment of Apex Training Institute

Current Progress

In accordance with the progress, 1st loan disbursement (JPY6,731 Million) has been made in March 2018 and 2nd loan disbursement (JPY5,047 Million) in February 2019.

Water Supply facility in Bhagapura, funded by GIPP.

Khoraj Estate Road funded by GIPP



Online Dashboard on investment application status, which has been facilitated under GIPP.

Act East Forum

The Forum aims to further expand the cooperation between Japan and India in North East and to strengthen the relationship between Japan and North East, as well as that between Japan and India. In this regard, the Forum discusses cooperation in various fields and promotes Japan's cooperation in the region.

1. Enhancing Connectivity

2. Forest Management

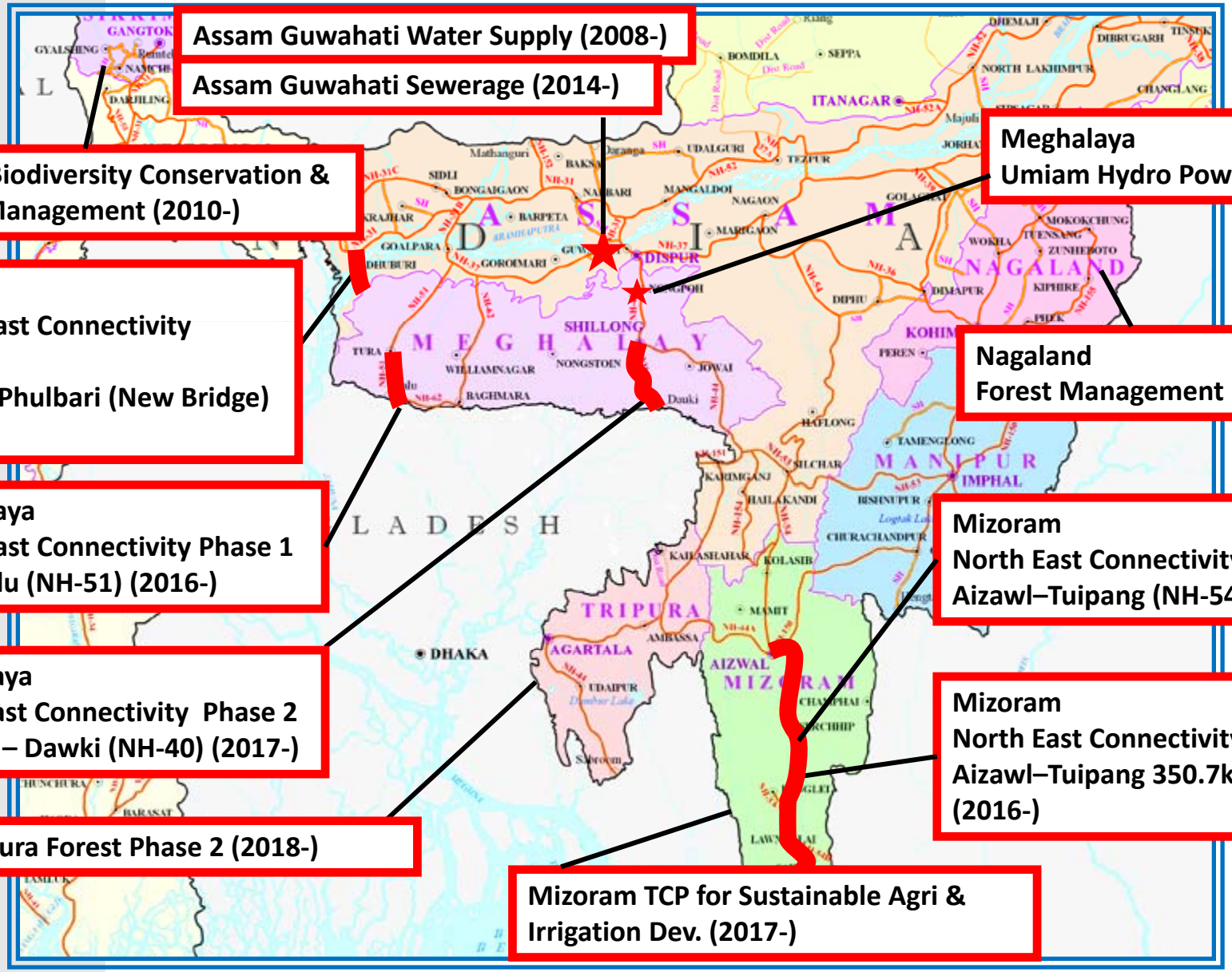
3. Bamboo

4. Disaster management

5. People-to-people exchanges

JICA's Cooperation for NER

Continuous Cooperation for Sustainable Development including Connectivity Enhancement



Assam Guwahati Water Supply (2008-)

Assam Guwahati Sewerage (2014-)

Sikkim Biodiversity Conservation & Forest Management (2010-)

Assam
North East Connectivity
Phase 3
Dhubri/Phulbari (New Bridge)
(2018-)

Meghalaya
North East Connectivity Phase 1
Tura-Dalu (NH-51) (2016-)

Meghalaya
North East Connectivity Phase 2
Shillong – Dawki (NH-40) (2017-)

Tripura Forest Phase 2 (2018-)

Meghalaya
Umiam Hydro Power (2018-)

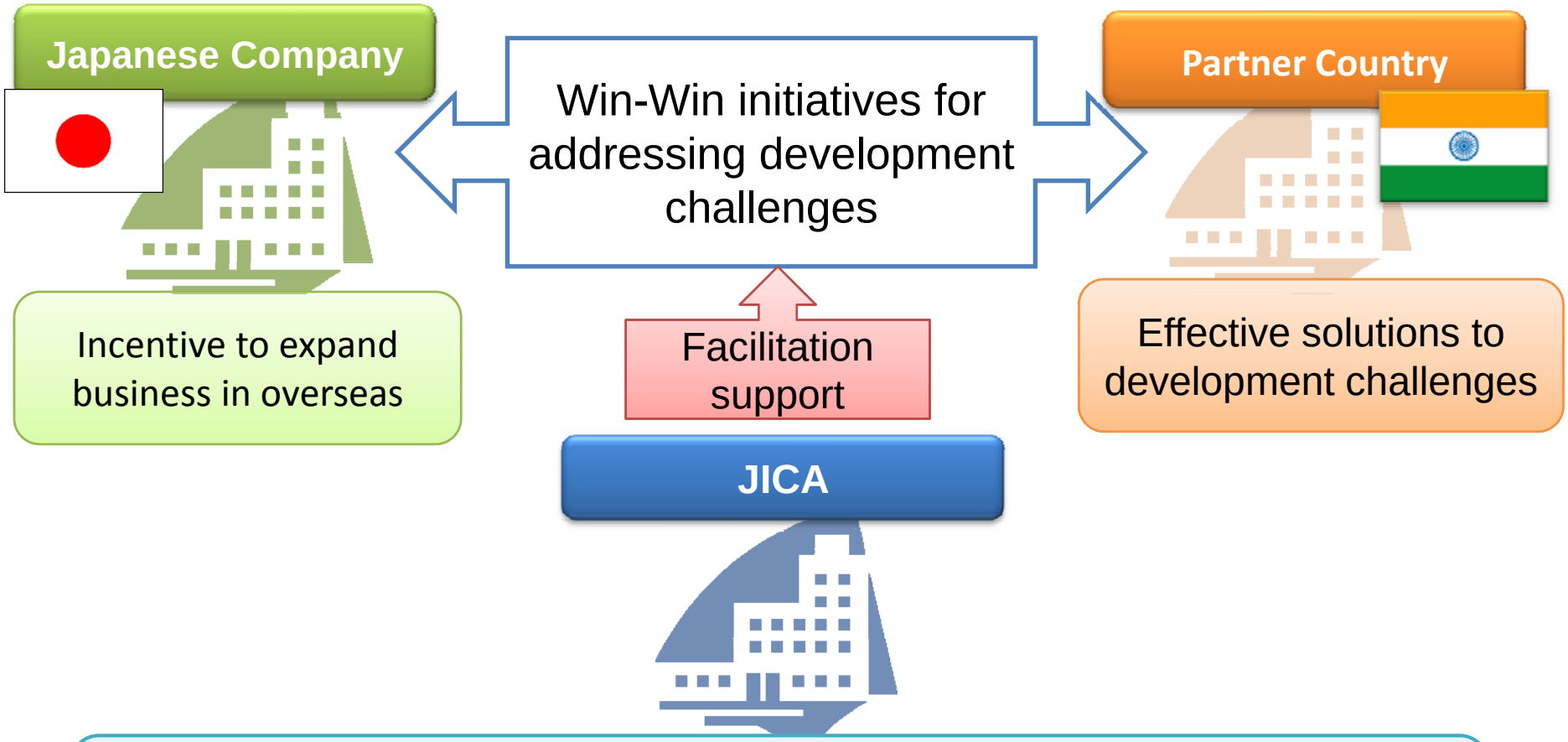
Nagaland
Forest Management (2016-)

Mizoram
North East Connectivity Phase 2
Aizawl–Tuipang (NH-54) (2017-)

Mizoram
North East Connectivity Phase 1
Aizawl–Tuipang 350.7km (NH-54)
(2016-)

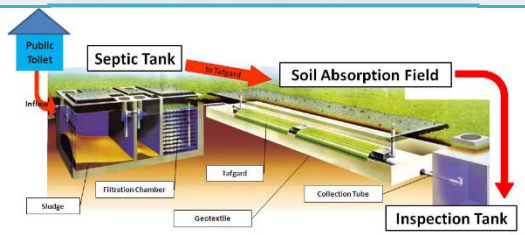
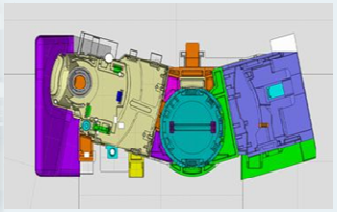
Mizoram TCP for Sustainable Agri & Irrigation Dev. (2017-)

JICA's Private Sector Participation Program

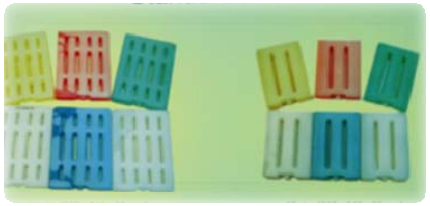


JICA facilitates the realization of both Japanese companies for business expansion and partner countries' initiatives for achieving their development goals through utilizing technologies/products of Japanese companies

Proposed Technologies and Products in India

Sector	Proposed Product / Technology in India	
Environment and Energy		Chemical Analysis Technology Corresponding to Stockholm Convention on POPs (Delhi)
Waste Treatment	 	High Speed Organic Waste Processing / Compost Producing Machine (Kerala)
Water Purification and Treatment		Plastic Underground Rainwater Storage System (Chennai)
Water Purification and Treatment		Tafgard Technology for Eco-friendly Toilet (Wastewater treatment) (Varanasi, Muzaffarnagar)
Vocational Training and Industrial Development	 	Engineer Training for Modular Dies (Lucknow)

Proposed Technologies and Products in India

Sector	Proposed Product / Technology in India	
Agriculture		Self-propelled Potato Harvester (Punjab)
Health and Welfare		Ice Battery System for Medical Cold Chain Development (Delhi)
ICT Infrastructure		Intelligent Transport System (Ahmedabad)
Infrastructure	 	Precast Concrete Product & Form (Mould) (Gujarat)
Disaster Preparedness and Response	 	Dry Type High-quality M-sand/Plaster Sand Classifier System for High-strength Concrete (Bengaluru)

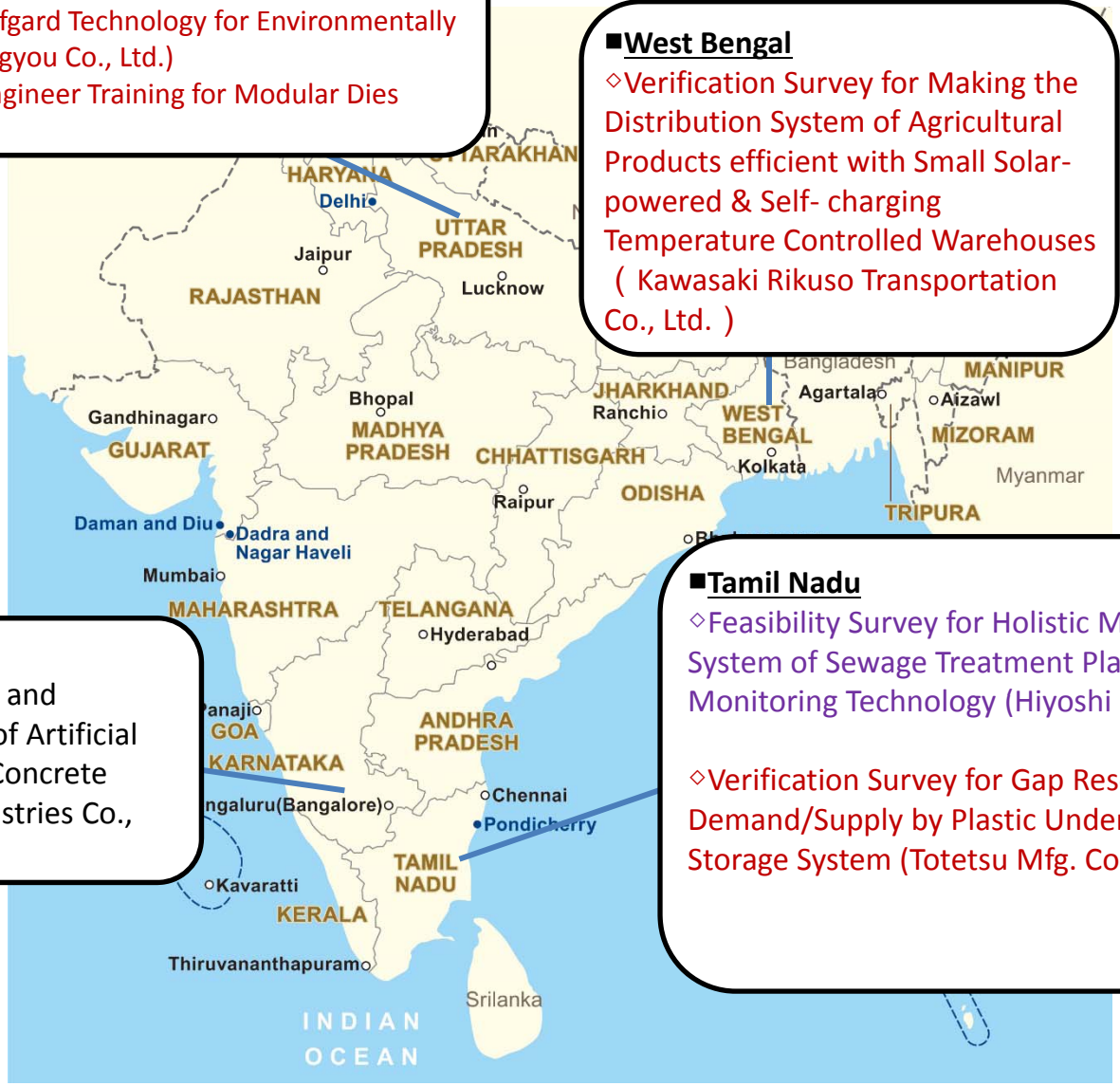
Ongoing Projects in India

As of May, 2019
No of Projects: 7

Basic Research	1
Feasibility Survey	2
Popularization, Demonstration, and Commercialization	4

■**Uttar Pradesh**
◇Feasibility Survey for Development of Catfish Hatchery Industry (Miyachi Corporation)
◇Verification Survey for Tafgard Technology for Environmentally Friendly Toilets (Taisei Kougyou Co., Ltd.)
◇Verification Survey for Engineer Training for Modular Dies (Gifutadaseiki Co., Ltd.)

■**West Bengal**
◇Verification Survey for Making the Distribution System of Agricultural Products efficient with Small Solar-powered & Self- charging Temperature Controlled Warehouses (Kawasaki Rikuso Transportation Co., Ltd.)



■**Karnataka**
◇Survey on High Quality and Sustainable Production of Artificial Sand for High-Strength Concrete Production (Koritsu Industries Co., Ltd.)

■**Tamil Nadu**
◇Feasibility Survey for Holistic Management System of Sewage Treatment Plant with Remote Monitoring Technology (Hiyoshi Corporation)

◇Verification Survey for Gap Resolution of Water Demand/Supply by Plastic Underground Rainwater Storage System (Totetsu Mfg. Co., ltd.)

Thank you!

धन्यवाद

c.f. http://www.jica.go.jp/india/english/office/about/message.html
http://www.jica.go.jp/india/english/office/others/brochures.html
http://www.jica.go.jp/india/english/office/others/presentations.html