

Asia and the Pacific Transport Forum 2024 ADB-Japan Sustainable Transport Technology for the Future Manila, Philippines, May 17, 2024

Container tracking and data analytics solutions for Indian logistics sector toward its global competitiveness and decarbonization

Yasunori Mochizuki NEC Corporation

Logistics Data Bank (LDB)

India's Logistics Performance Index (LPI) ranking improved from 54th position in 2014 to 38th in 2023 as evaluated by World Bank



World Bank Report states:

"Since 2015, the Government of India has invested in trade-related soft and hard infrastructure connecting port gateways on both coasts to the economic poles in the hinterland. Technology has been a critical component of this effort, with implementation of a supply chain visibility platform, which

contributed to remarkable reductions of delays. NICDC Logistics Data Services Limited (NLDSL) applies radio frequency identification tags to containers and offers consignees end-to-end tracking of their supply chain."

Logistics Data Bank (LDB):

Nation-wide single window platform for tracking of EXIM Containers



Use of RFID technology with coverage across Ports, Container Depots, Freight Stations, Toll Booths, Railway Stations, Yards, International Borders and Industrial Zones



Electronic data exchange through integrations with Ports, Terminals and Railways



Provides analytical insights for finding **best and worst performing** Ports, Container Depots and Freight Stations



Contributes to Logistics Performance Index (LPI) and Ease of Doing Business (EoDB)

LDB Operational Flow:



LDB Timeline:



LDB's Coverage:



17 PORTS (28 TERMINALS)

129 TOLL BOOTHS

430 FS/CD/EY/PP

66 SPECIAL ECONOMIC ZONES

3 INTERNATIONAL BORDER CHECK POSTS (NEPAL & BANGLADESH)

4.5 Mn +

Monthly

Containers Search

MAJOR CARGO RAIL ROUTES

70 Mn +

Containers

Tracked

LDB Analytics:



LDB Value Addition:



LDB Driving Decarbonization:



Efficient tracking through LDB has minimized delays and reduced idling time, leading to lower fuel consumption



Enabled businesses to optimize the utilization of transportation resources, reducing inefficiencies and promoting sustainability



Facilitated route optimization to minimize distance travelled and conserving fuel



Helped ports in reducing congestion, leading to lower carbon emissions

LDB Analytics: Actual performance improvements



LDB 2.0: Unified Logistics Interface Platform (ULIP)

Expanding Cargo visibility beyond Containers.....



Launched by Hon'ble Prime Minister of India under the purview of National Logistics **Policy (NLP)** NATIONAL LOGISTICS **Digital gateway** for enabling industry players to access logistics related datasets from various Govt. system through **API based integration** All modes of logistics (sea, air, road, rail, waterways) are covered under ULIP, irrespective of type of cargo

TH WREY GOOD

How ULIP Works?



ULIP Integration Status

Logistics Service Providers FEC 881 **Cloudstrats AGGRANDIZE** COMPANIES SemiCab 1800+ INSTA**VANS** REGISTERED Shiprocket FIELDS MASTERS INDIA **Total** CHETAK Group FREIGHTWALLA -614 🔆 WheelsEye **USECASES RECEIVED Industry Giants** adani BOSCH (h)NEC cj Darcl 170 TCI 118 eena Estd 1900 Ports and Reliance LEADERS IN LOGISTIC NDAs SIGNED Logistics **CMA CGM** Industries Limited APIs policybazaar aitwa UltraTech SAFEX PRESS CEMENT EY П ЈОНИЅОИ PLATFORM INTERFACE MapmyIndia YES BANK **TATA STEEL** Start-ups 37 **MYTRUX** truxport. 010a SYSTEMS CARG® SHAKTI 84 enmævil .EGALKART zipaworld trezn Intugine FRETRON **APPLICATIONS** TruckHall DEVELOPED **SDEX** SEIKONA TECH FUTURE OF LOGISTICS Lynkit. LOGIBOOK FR3 SuperProcure **AXESTRACK** 310 Mn.+ **F**FRETRON 10 **API HITS** MINISTRIES Government Assam Food Corp. India Andhra Pradesh Madhya Pradesh Chhattisgarh Odisha Coal India Uttar Pradesh Jharkhand MoPSW (Ports) Telangana Gujarat

NEC

Orchestrating a brighter world

