

Pioneering path towards electrifying public bus networks - challenge of a bus operator -



May 17th, 2024

Michinori Holdings, Inc.

Corporate Outlook

Name: Michinori Holdings, Inc.
Headquarter: Tokyo, Japan
Established: March 16th, 2009
Shareholder: Japan Platform of Industrial Transformation, Inc. (JPiX) 100%
Group CEO: Jun Matsumoto (Mr.)
Employee: 17 in Headquarter and 5,000+ across operation companies

Main Business Areas

Transport

- City Bus
- Intercity Bus
- Charter Bus
- Taxi
- Railway
- Monorail
- Cable Car
- Car Ferry
- Jet Foil



Tourism

- Hotel
- Travel Agency

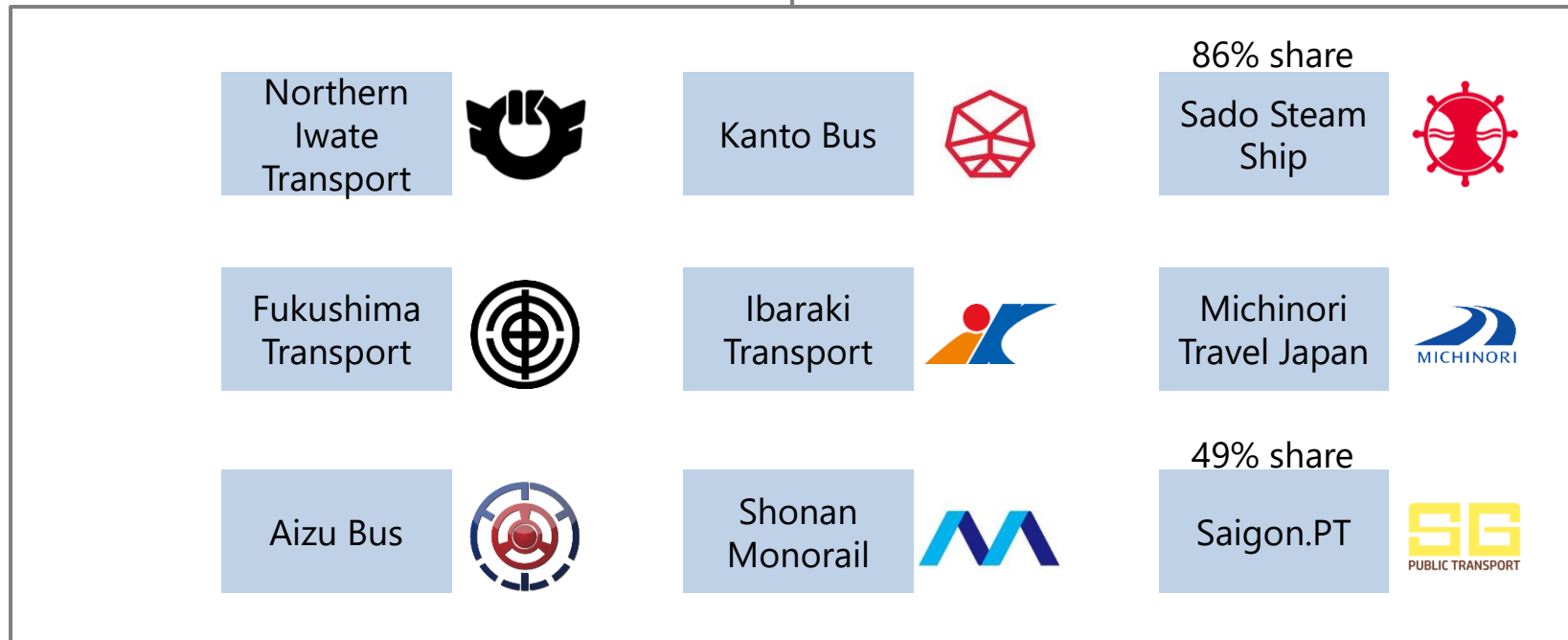


Vehicle Maintenance

- Inspection
- Maintenance

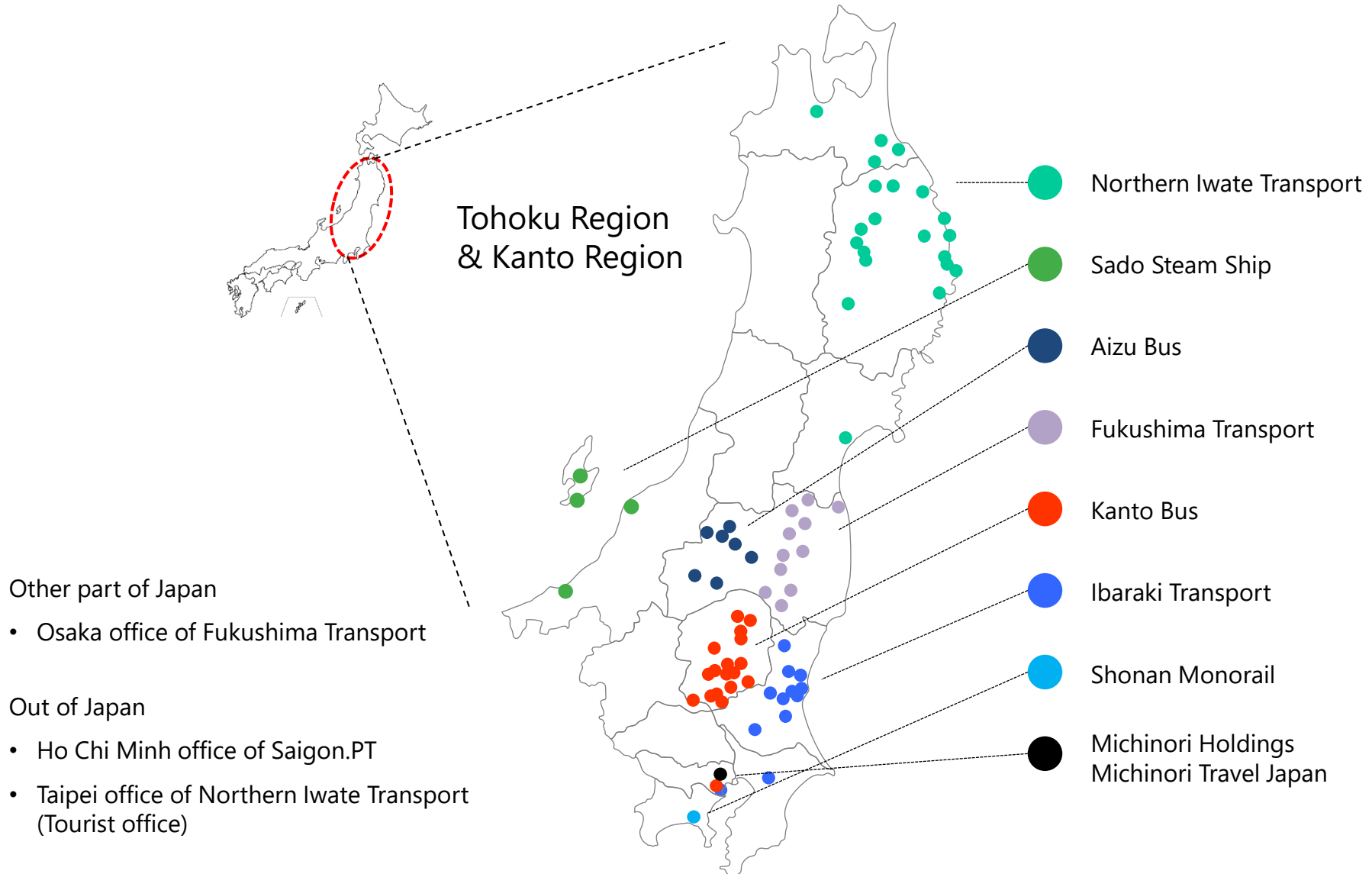


Group Structure

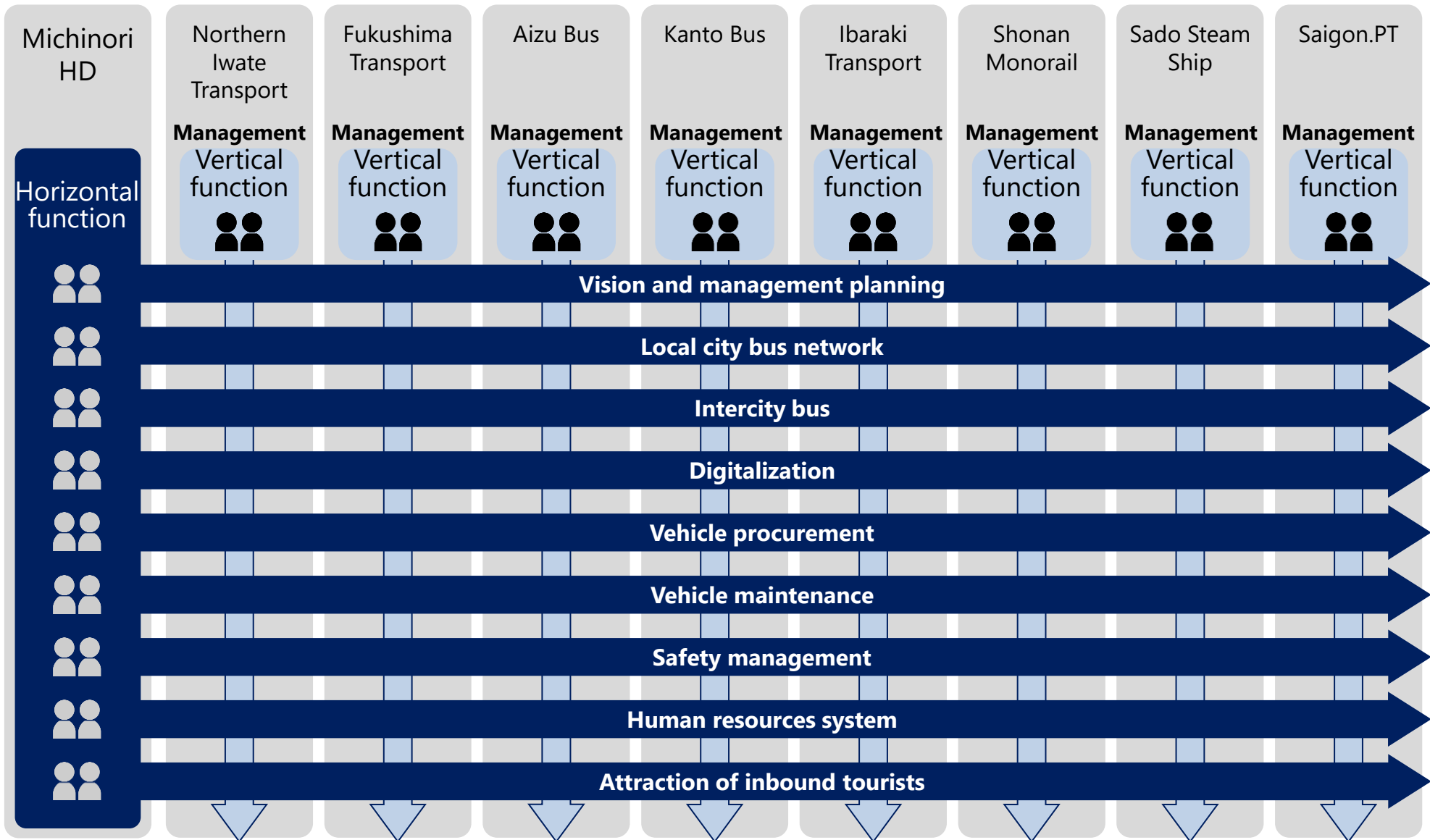


* Number of employees and vehicles etc. of group companies in Japan are as of March 31st, 2023
Number of employees and vehicles etc. of group company out of Japan are as of April 1st, 2024

Bases of Michinori Group



Group Management by Vertical x Horizontal Axes

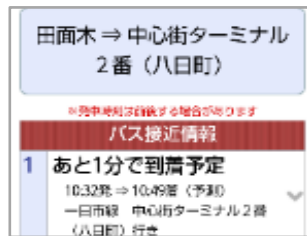


Key Projects for Sustainable Public Transport

Solving social issues and improving productivity

Usability Improvement

- MaaS
- Cashless Payments
- Bus Location System/
Real-time Search
- Demand Responsible
Transport



Operation Improvement

- Autonomous Driving
- Bus Electrification/
Energy Management
- Optimization of
scheduling/work shift
- Digital Roll Call



起点	終点	出発時間	到着時間
若松駅前	若松	7:20	8:40
若松駅前	若松	9:30	10:06
若松駅前	若松	17:30	18:02
若松駅前	若松駅前	18:45	19:19



E-Bus Implementation

We have accumulated experience and knowledge to ensure the bus operations quality with E-buses through the gradual implementation over 10 years

2012



Northern Iwate
Transport



1 Retrofitted E-Bus (40kWh)

- Michinori group's first E-bus
- Usability monitoring
- Battery partial replacement in 2022

2017



Aizu Bus



3 E-Buses (217kWh)

- Operation of multiple E-bus
- First full E-Bus (not retrofitted)
- 3 out of over 70 buses at the depot

2023



Fukushima Transport
Kanto Bus
Ibaraki Transport

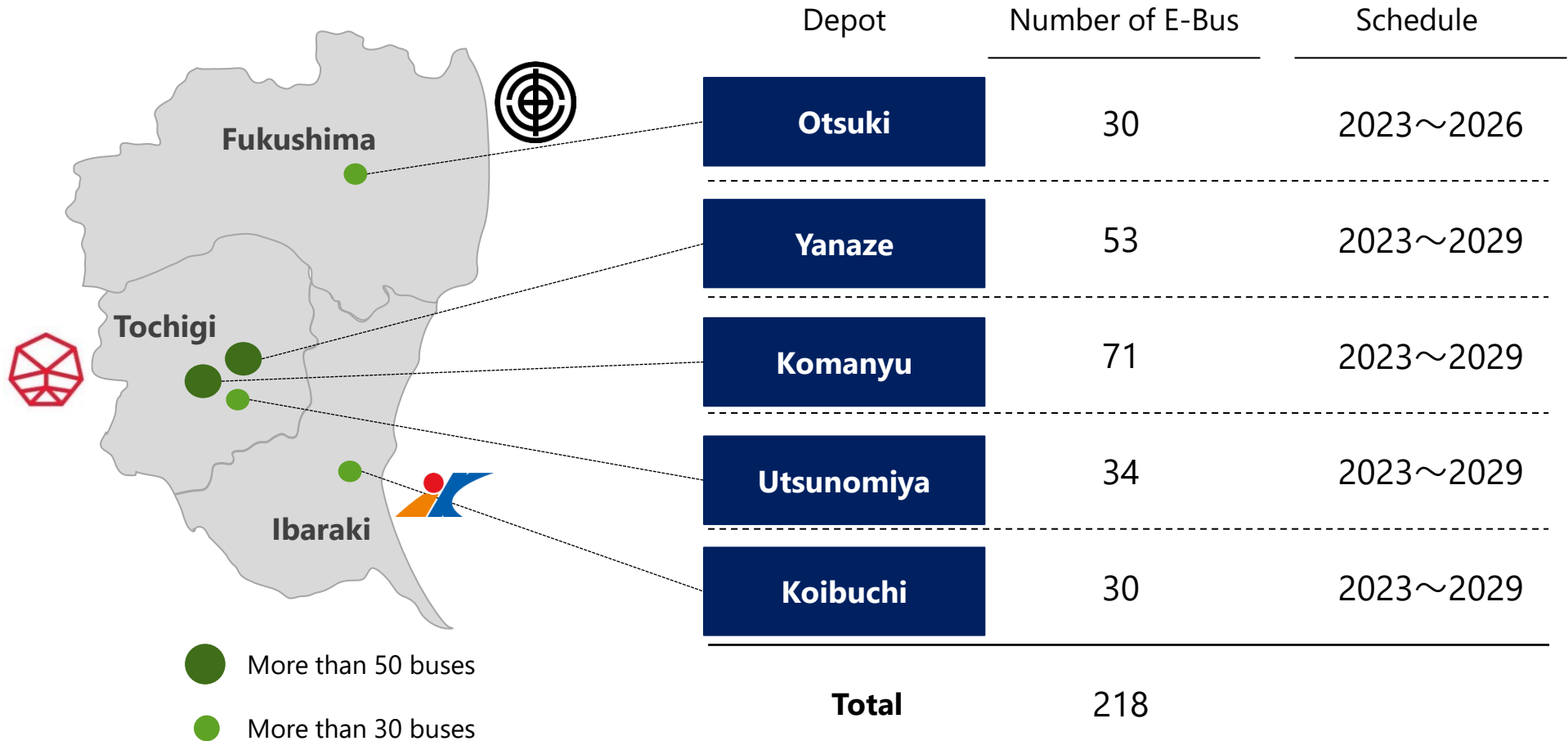


218 E-Buses (287kWh)

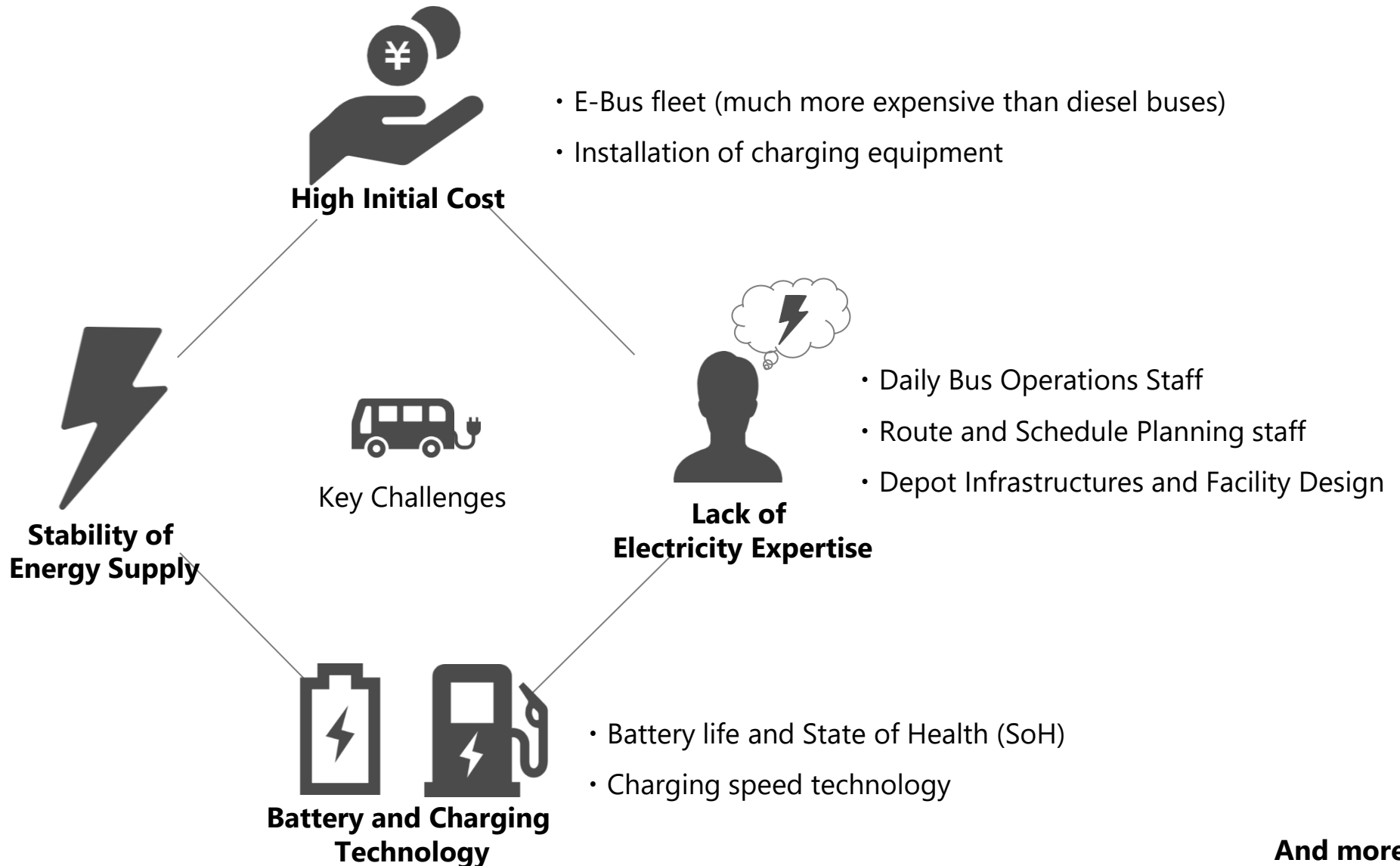
- 3 operators in 3 different prefectures
- Electrification of all buses at five depots
- Bus-EMS development for a full-scale adoption supported by the national government (METI/NEDO)

2030

Adoption Plan from 2023 and Beyond

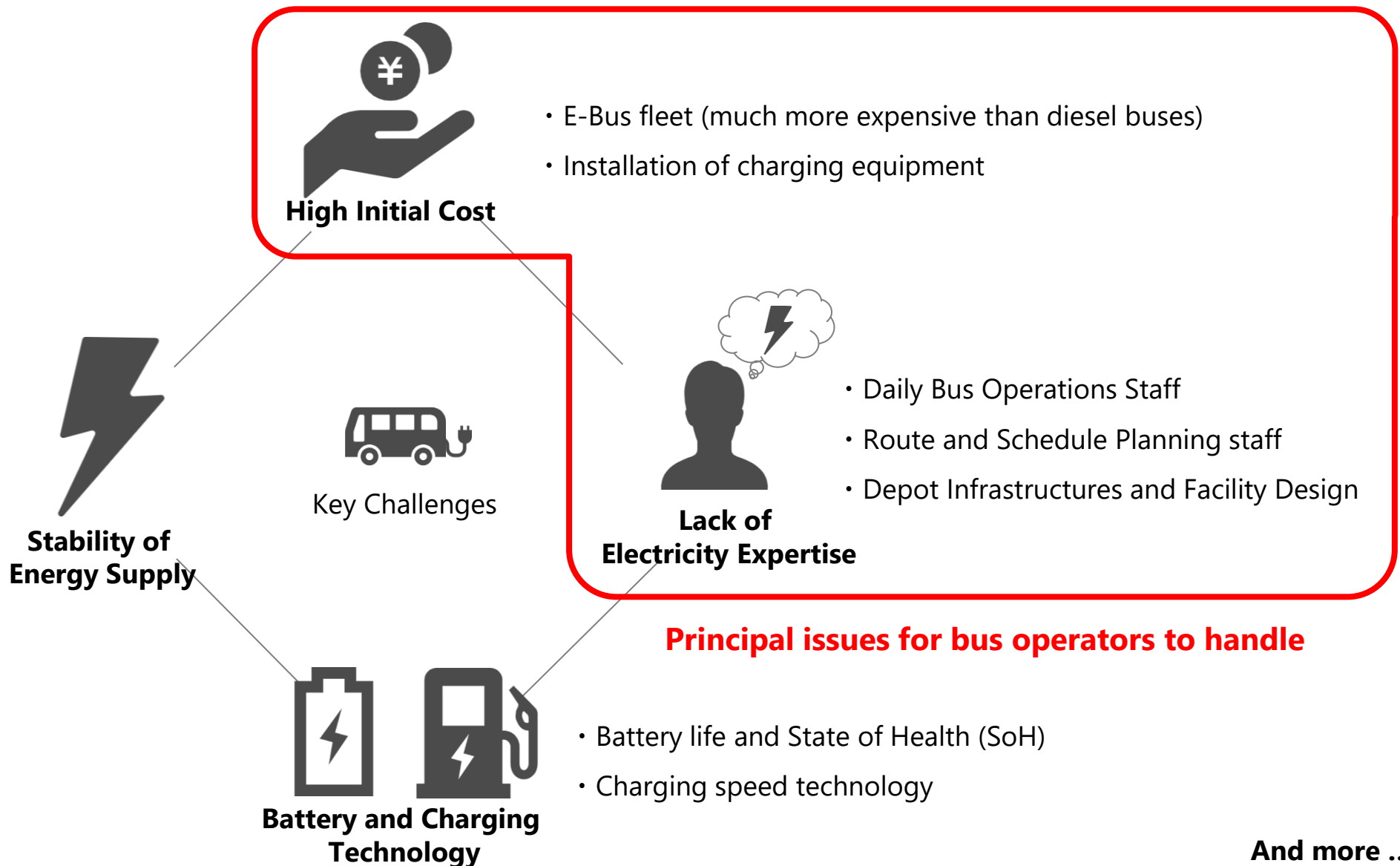


Key Challenges in E-Buses Adoption

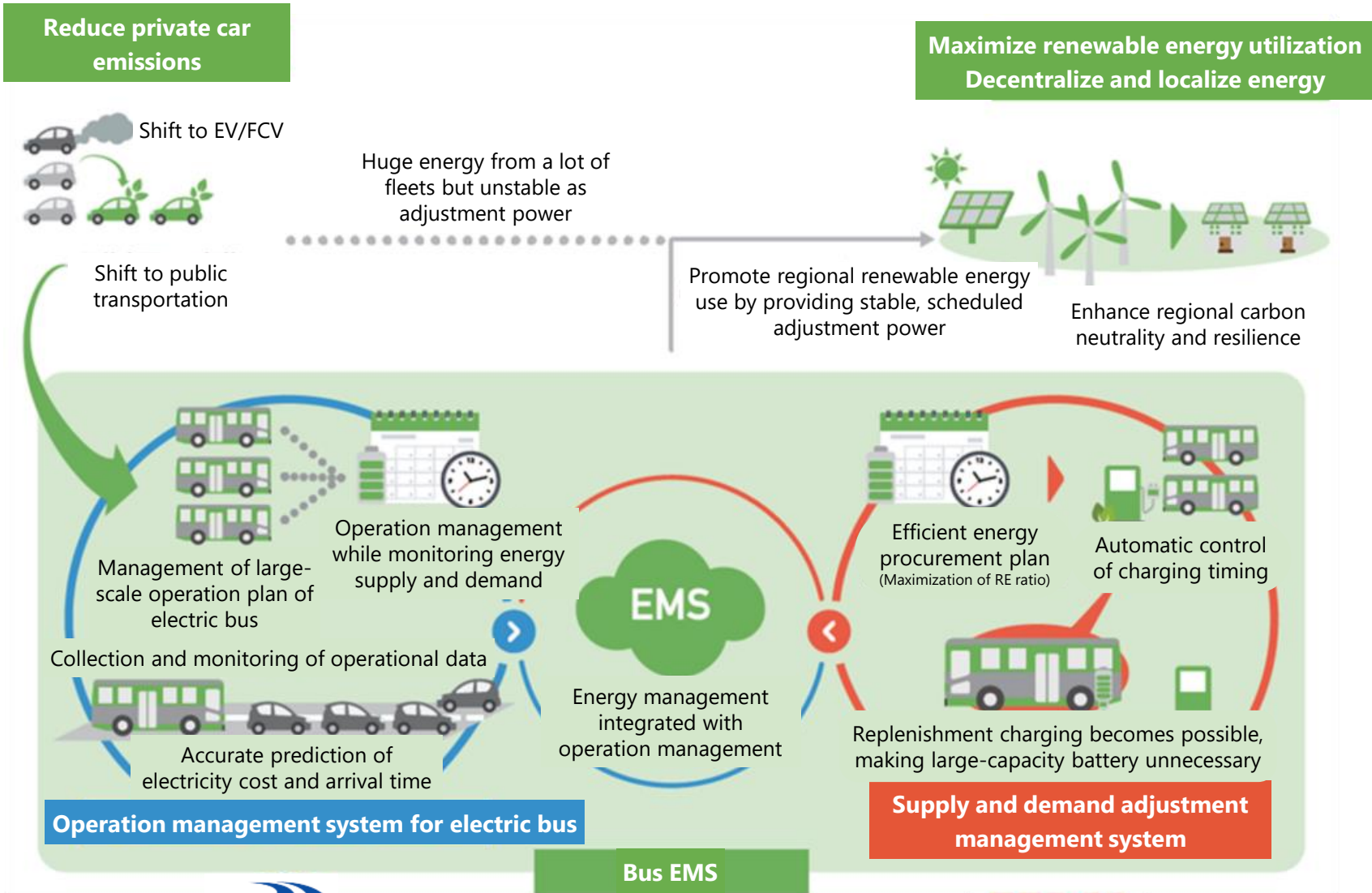


And more ...

Key Challenges in E-Buses Adoption



Concept of Bus-EMS



Cooperation of All Value Chain Stakeholders is Crucial



Thank you !

Feel free to contact us:

MOTOYOSHI Koh k.motoyoshi@igpi.co.jp

HORIKIRI Kan k.horikiri@igpi.co.jp

