



Hino's Environment-conscious Management Strategy

April 27, 2021

Yoshio Shimo

President & CEO

Hino Motors, Ltd.



Society Hino aims for through “environment-conscious management”

“An affluent, comfortable, sustainable society,”

in which people and goods can be transported freely, safely, and efficiently.

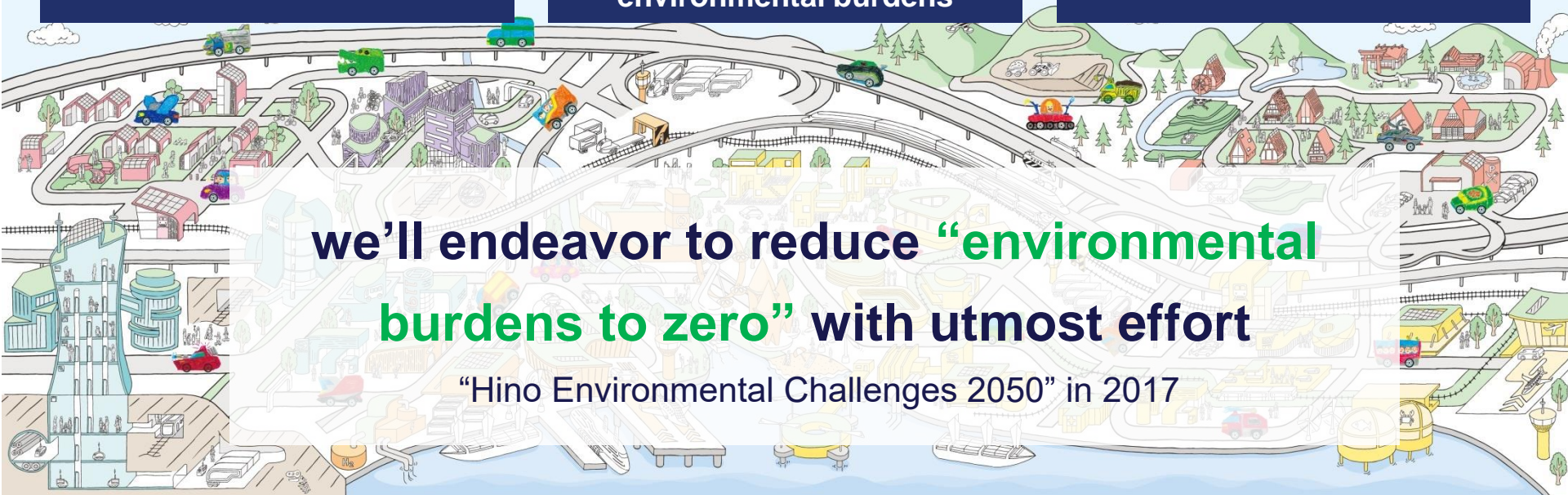
**Anxiety-free, safe society
without traffic accidents**

**Society in which the
transportation of people and
goods will not produce
environmental burdens**

**Society in which people and
goods can be transported
freely and optimally**

**we'll endeavor to reduce “environmental
burdens to zero” with utmost effort**

“Hino Environmental Challenges 2050” in 2017





Awareness towards the Environment

Global **environmental issues**, mainly **global warming**, are becoming serious. The coexistence with the earth environment is a common challenge for all people.

In order to realize the “**carbon neutral**,” it is necessary to reduce CO₂ emissions in the lifecycle and take sustainable measures.

We will pursue all kinds of measures from the perspectives of not only our products, but also our customers and society, in cooperation with governments of respective countries and related industries.



Toward the carbon neutral in 2050

We aim to reduce CO₂ emissions in the lifecycle.

Hino Environmental Challenges 2050



Life Cycle Zero CO₂
Emissions Challenge



New Vehicle Zero CO₂
Emissions Challenge



Factory Zero CO₂
Emissions Challenge



Challenge of Minimizing and
Optimizing Water Usage



Challenge of Achieving
Zero Waste



Challenge of Minimizing
the Impact on Biodiversity

Pursuit of all kinds of measures
from the perspectives of
customers and society

Adoption of decarbonized energy
Development and diffusion of
technologies

Streamlining of transportation

Promotion of decarbonization of the
production process

Water saving and thoroughgoing
management of waste water quality

Promotion of resource recycling

Conservation activities that suit the
environment of each region

Hino Environmental Milestone 2030

-25% from 2013

-40% from 2013

-40% from 2013

Quantity: Water saving and recycling while keeping regional
characteristics in mind

Quality: Thoroughgoing management based on our rigorous criteria

-30% from 2018

Realize of factories “that can coexist
with nature”

*Global goal

“Carbon neutral” from the lifecycle viewpoint

To reduce CO₂ emissions in all processes, including “manufacturing, transportation, use, and disposal”

Development and diffusion of technologies

Streamlining of transportation

Pursuit of sustainable measures that are useful for customers

Promotion of decarbonization of the manufacturing process



Production of materials and parts

Transportation



Manufacturing of vehicles

Transportation



Owning of vehicles

Transportation



Maintenance and disposal



Energy for running

Adoption of decarbonized energy in cooperation with governments and related sectors

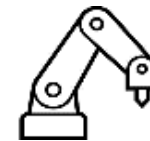


Promotion of decarbonization in the manufacturing process

To reduce CO₂ emissions with three measures

1

Introduction of innovative technologies



2

Adoption of renewable energy



3

Improvement of routine work



2013

2050

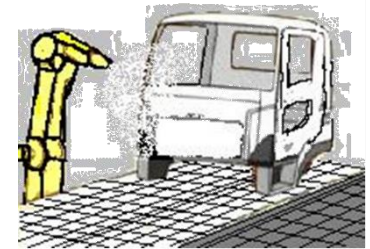
Promotion of decarbonization in the manufacturing process: Concrete example



〈Introduction of innovative technologies〉
**Energy-saving production
methods and equipment**



〈Machining that does
not produce chips〉



〈Dry/airless coating〉



〈Adoption of renewable energy〉
**Adoption of energy that does
not emit CO₂**



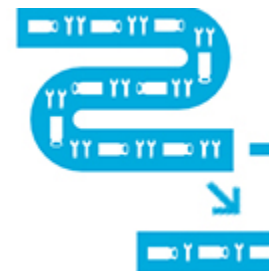
〈In-factory
power generation〉



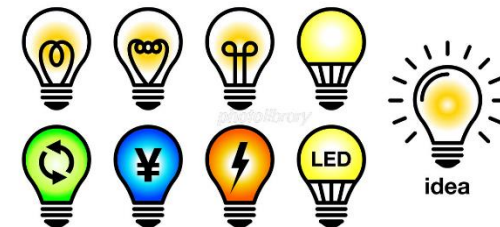
〈Adoption of
power generated
with renewable energy〉



〈Improvement of routine work〉
**Minimization of energy
consumption by eliminating
waste and irregularity thoroughly**



〈Simplification/downsizing
of processes〉



〈Energy saving〉

Concept for electrification of commercial vehicles

Our approach:

Electric vehicle development/promotion of the use of electric vehicles/streamlining of transportation

Transportation
distance

Load
capacity

Cargo
handling

Purpose of use
Concrete mixer trucks,
garbage trucks, etc.

Energy/
infrastructure

etc.



We propose practical options for clients
by examining all kinds of requirements.



Power train

EV

FCV

HV

e-Fuel, etc.



Popularization with “really useful” EVs

New proposal for the “last mile of logistics”

To achieve user-friendliness and the zero-emission at high levels

**HINO
DUTRO ZEV**



Ultralow floor

Walk-through

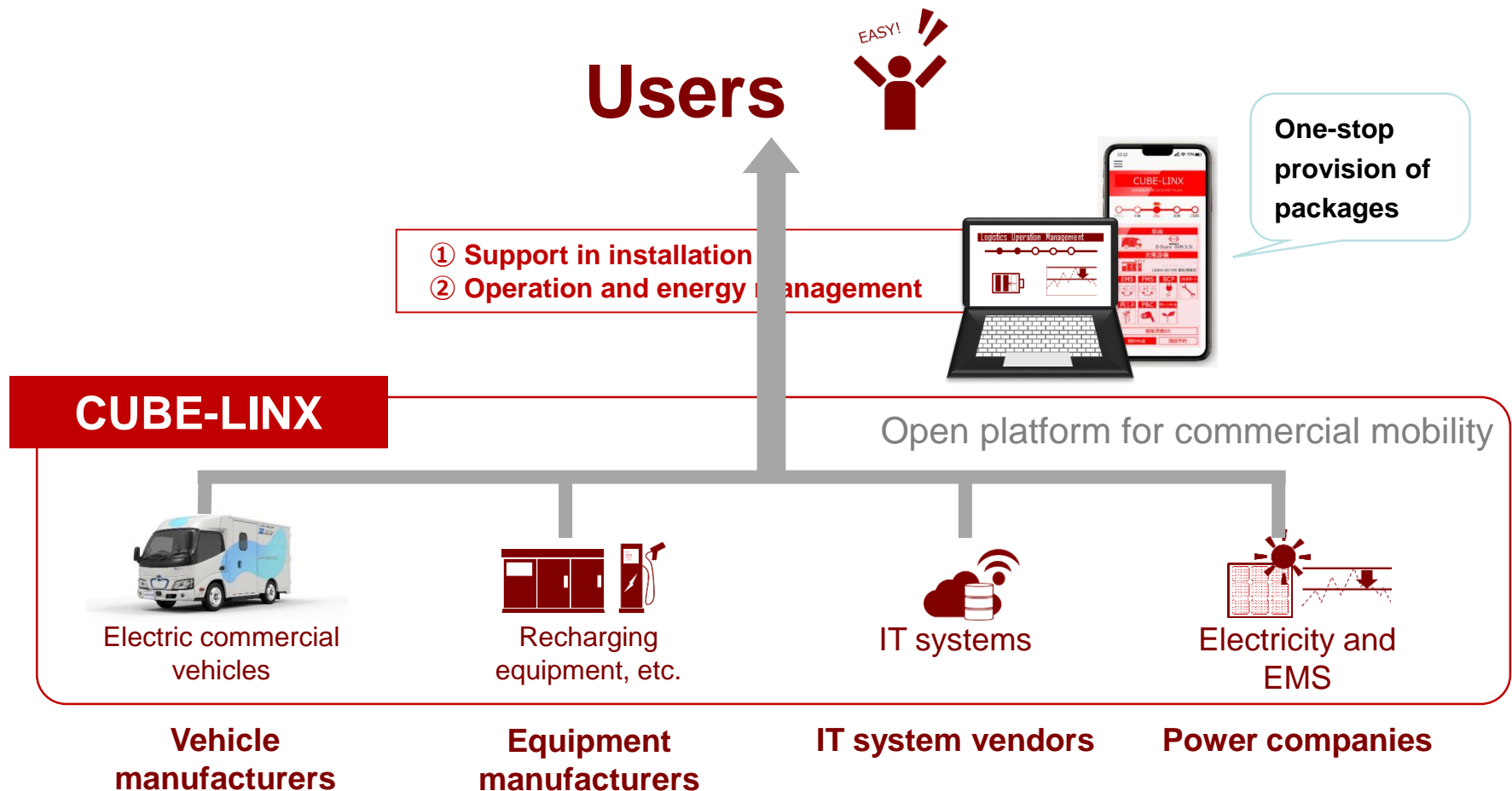
Safety

Zero emissions

Efficiency of
transportation

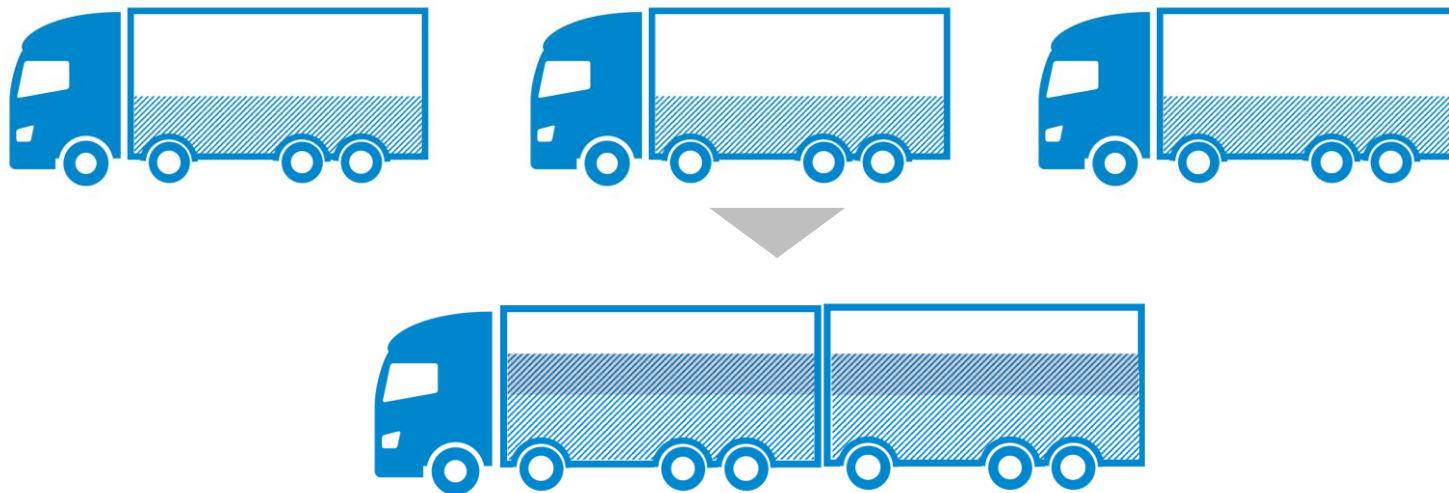
Popularization with optimal operation management

To popularize electric vehicles in the transportation field
by solving troubles about the adoption and operation of electric vehicles



To reduce CO₂ emissions by streamlining logistics

**Based on a new arterial transportation scheme
we will improve transportation efficiency and curtail CO₂ emissions**



**Through optimal mixed loading + use of 25m full-trailers
CO₂ emissions -31%**



Acceleration of initiatives around the world

Local activities for reducing CO₂ emissions

Japan



Advance to practical use in cooperation with various partners

North America



Acceleration of Project Z
Adoption of EVs in 2022 rather than 2024

Global

Give lectures about fuel-saving driving in Japan, Asia, and Latin America, to improve mileage and reduce CO₂ emissions

New approach toward a decarbonized society

Streamlining of logistics for next-generation mobility

Pursuit of maximization of motor efficiency under the concept of two-tiered structures



Significant advance based on the alliance with REE



We aim to achieve the carbon neutral with partners.

Electrification of vehicles

TRATON

Collaboration in the
operation of an EV platform



Development of commercial
EVs

Light-duty electric/fuel-
cell trucks

CJPT

ISUZU  **HINO**
TOYOTA

Optimization of transportation through the linkage with social systems

NEXT
LOGISTICS

× Partner for shipper,
transportation, and
logistics solutions

Improvement in
logistics efficiency

**CUBE-
LINX**

×  関西電力
power with heart

Optimization of
energy use

R3E

Provision of new value
through the separation
of the upper part

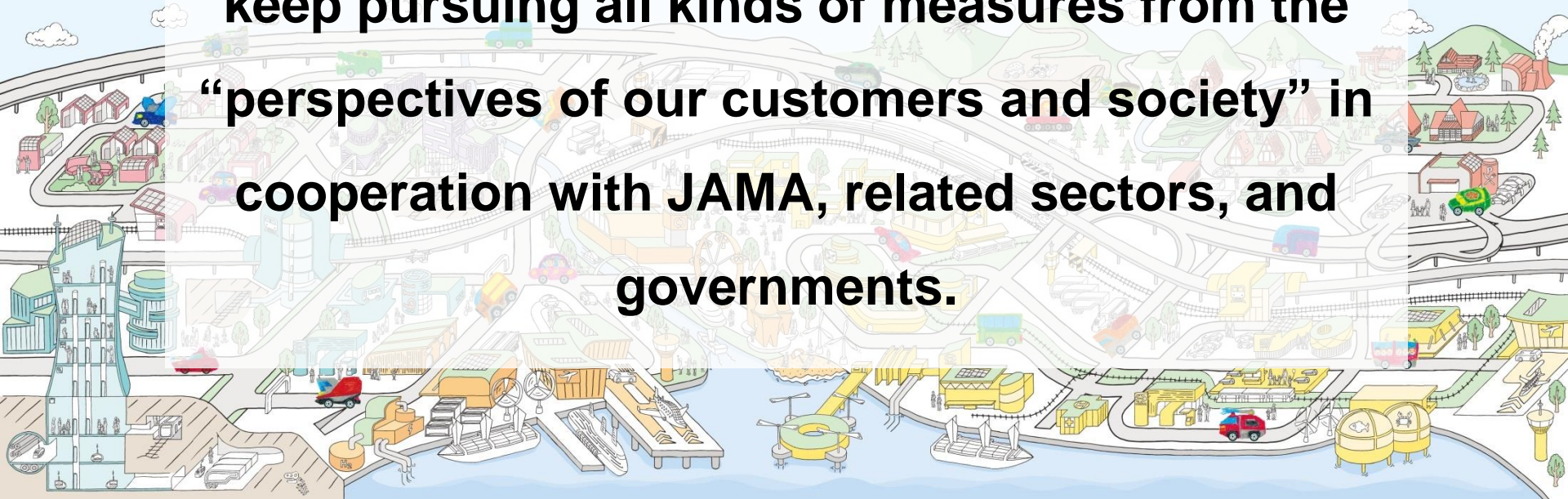
Commercial connected
/logistics solution

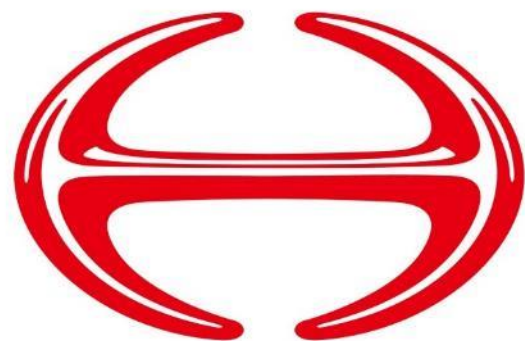


Mission of Hino Motors

To support the transportation of people and goods, and contribute to an affluent, comfortable world and future

In order to realize the carbon neutral, we will keep pursuing all kinds of measures from the “perspectives of our customers and society” in cooperation with JAMA, related sectors, and governments.





HINO