

REmobility

Accelerating EV adoption in India

REmobility is a regional action collaborative under WBCSD's
Transforming Urban Mobility project



About **WBCSD**

The World Business Council for Sustainable Development is a global, CEO-led organization of 200 forward thinking businesses working together to accelerate the transition to a sustainable world.

Our mission is to accelerate the transition to a sustainable world by making more sustainable business more successful.

Our vision is to create a world where more than nine billion people are all living well and within the boundaries of our planet, by 2050



GLOBAL

200 members from all geographies and economic sectors.



CEO-LED

Led by our member company CEOs and oriented towards collective action.



BUSINESS PLATFORM

Members access a diverse business community and a safe space to exchange ideas and know-how with peers..

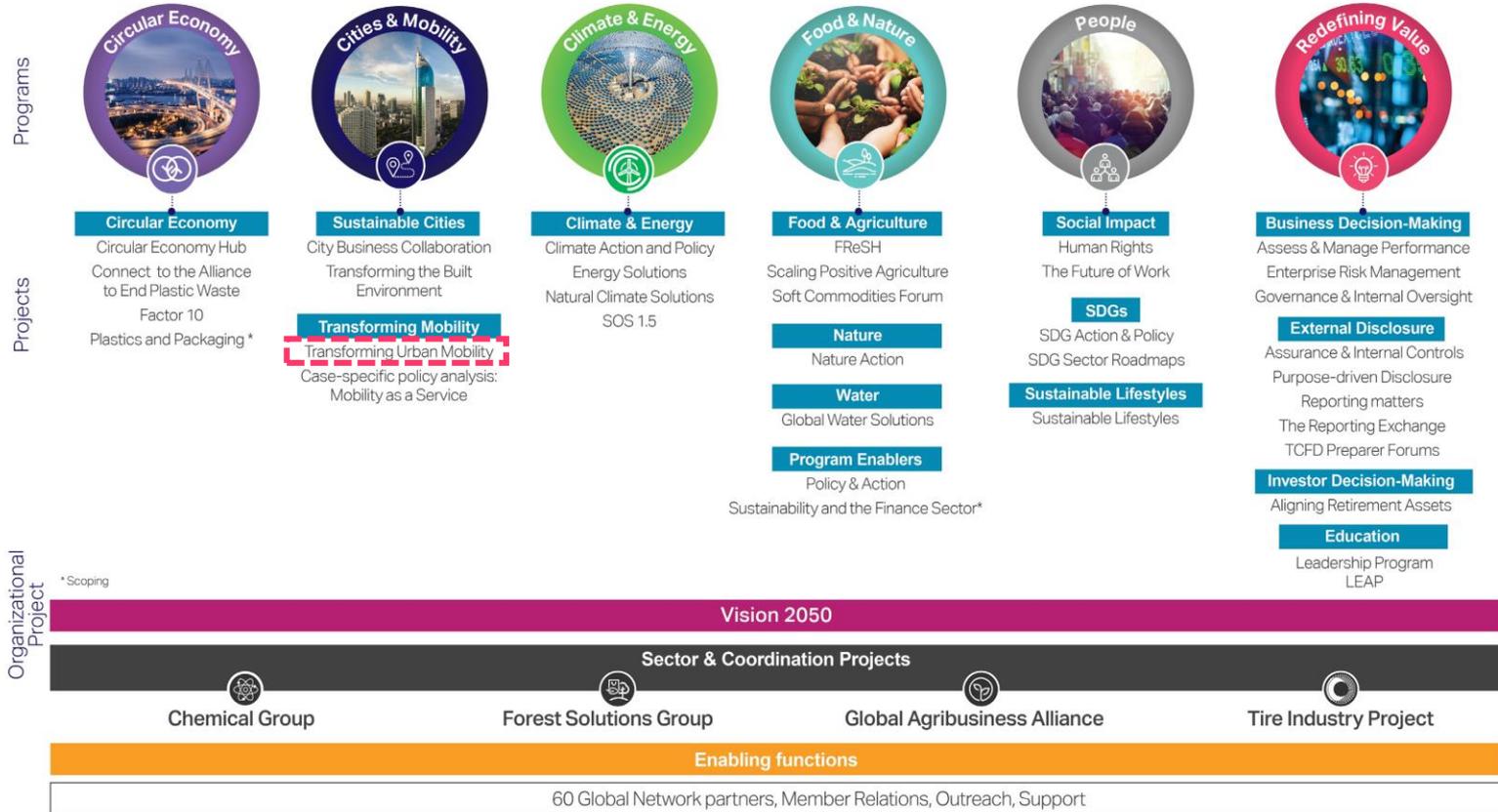


MARKET-DRIVEN

We see market solutions as central to sustainable development. We strive to support our member companies be more resilient and more competitive.



WBCSD Programs and Projects



WBCSD Transforming Urban Mobility (TUM) Objectives: Addressing four interconnected goals for a sustainable mobility system by 2030

Clean

75% less GHG Emissions

Fully respect
WHO Air standards



Safe

75% less fatalities and
severe
injuries in road transport



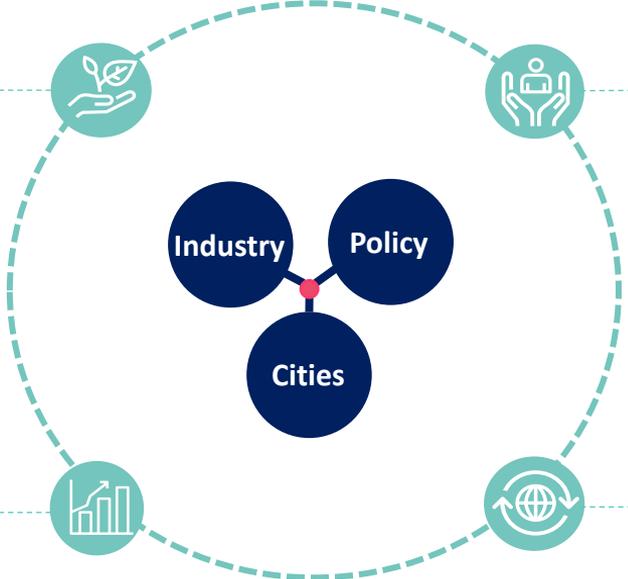
Efficient

75 % less GDP losses
due to time lost in
congestion



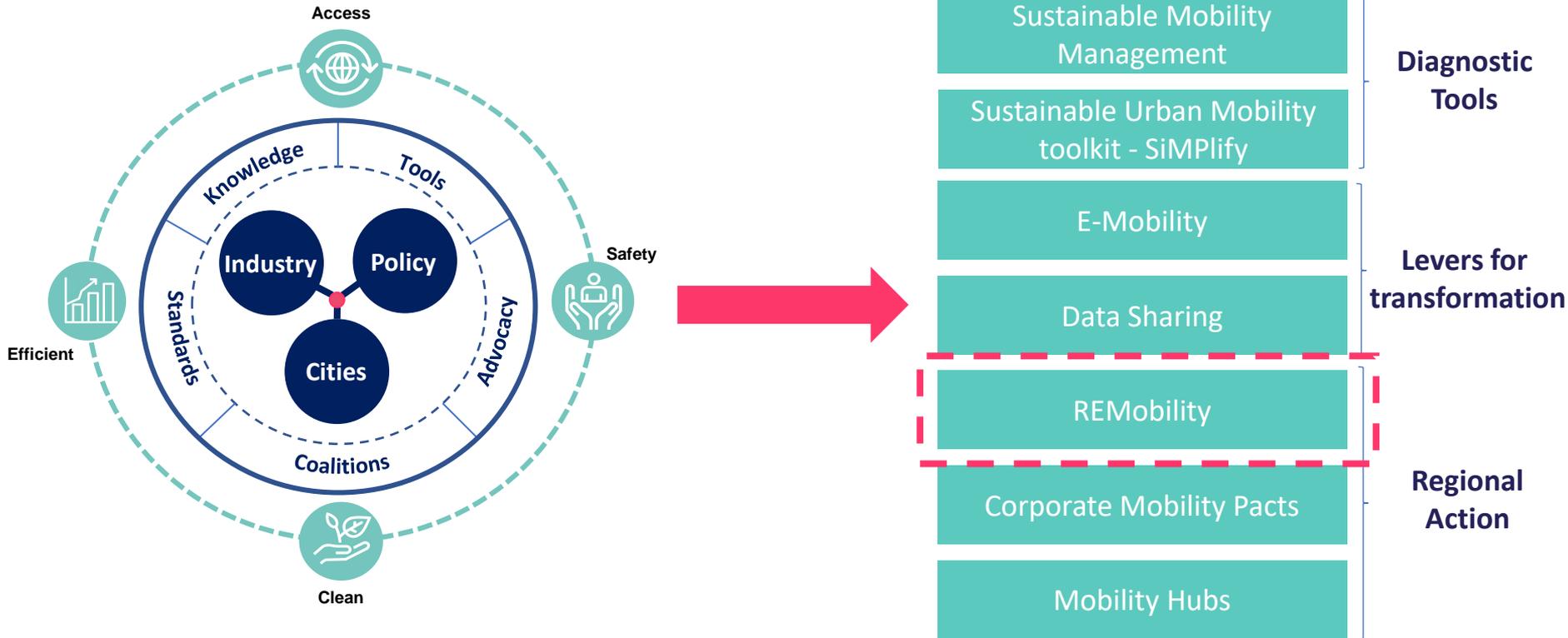
Accessible

Bring access of lower 10% of
the population to the
current median level



Transforming Urban Mobility Workstreams at WBCSD

Mobility system transformation towards achieving sustainable mobility goals



REmobility: accelerating EV adoption in India

Regional action collaborative under WBCSD's Transforming Urban
Mobility project

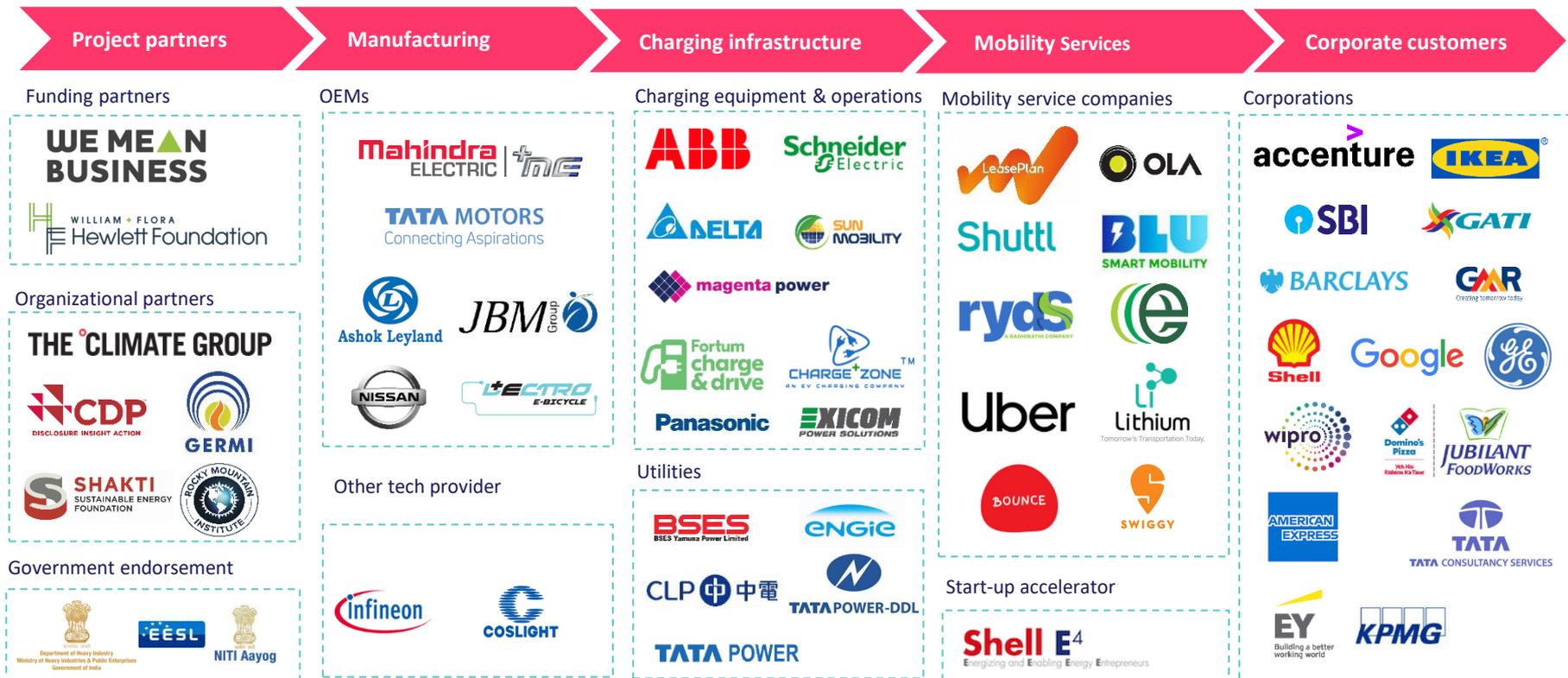
Workstream: Emobility
Geography: India



REmobility: India Mobility Context

- India has yet to procure much of its vehicle fleet (2W, 3W, 4W, buses & trucks);
- 2020s are critical for electrification: Slow transition in the 2020s will mean tens of millions of additional ICEs on Indian roads - with an average life of 10-15 years
- WBCSD India's REmobility project aims to catalyze early adoption of EVs in India (until 2025) to bring scale, lower costs and create a demand base required for R&D, manufacturing and infrastructure development .
- EVs are already economically viable if daily usage is between 150-200 kms.
- Low hanging fruit (until 2022): Business and fleet EV adoption (employee transport, ride sharing, urban freight), & public transport
- WBCSD's REmobility project is working with businesses and mobility service providers with an annual mobility demand for 8 billion kms, of which ~75 million kms have been electrified till date.
- By 2025, we aim to ensure that our collaborative delivers over >1 billions kms of annual electrically propelled mobility demand through own actions of participating companies – strongly supporting clean, shared and affordable mobility

REmobility: Working across the mobility value chain to accelerate EV adoption





REmobility: strong business representation

REmobility participants represent:

1

Corporate customers and mobility service providers having demand of at least **8 billion kilometers per year** within India

2

Mobility service providers running at least **75 million EV kilometers per year** in India

3

Charging infrastructure providers with **over 60% market share** in India

4

75% of national **electric vehicle manufacturers (4W, buses)**

Note: these are conservative estimates and need to be validated with companies

REmobility members collaborate to meet 2019-2020 project deliverables



Project Deliverables: 2019-2020:



Provide a platform to India's mobility value chain to **collaborate and share knowledge** towards accelerating adoption of EVs



Jointly create and publish a **business EV adoption guide**



Deploy scalable **demonstration projects** and ensure learning is shared widely for other companies to deploy and scale their EV adoption



Develop **policy recommendation papers for the Department of Heavy Industries, Government of India** towards: (i) accelerating business-led EV adoption; (ii) encouraging private investments in charging infra



Develop an **ambition statement signed by CEOs of prominent companies** to support enhancement of India's NDCs or Long-Term Plans (LTPs) related for electric mobility ahead of COP26

Examples of activities to collaborate and share knowledge

Project partners



Collaborated with **Government of India's policy think tank, Niti Aayog**, to organize a “**Masterclass for Corporate EV Adoption**” at MOVE Summit, a Government of India event.



Collaborating with the **world's largest energy service company, EESL**, a public sector enterprise, to create a framework for **aggregation of demand for electric vehicles and charging infrastructure from the private sector**

Finance



Collaborated with India's largest bank, **State Bank of India**, and organized a workshop to **design EV finance products for Indian market**

Corporations



Supported Ikea to create a roadmap for **100% electrification of their fleets in India** based on Ikea's EV100 commitment



Supported Shell to evaluate use of **electric buses** for employee transport at the Bangalore Technology Center

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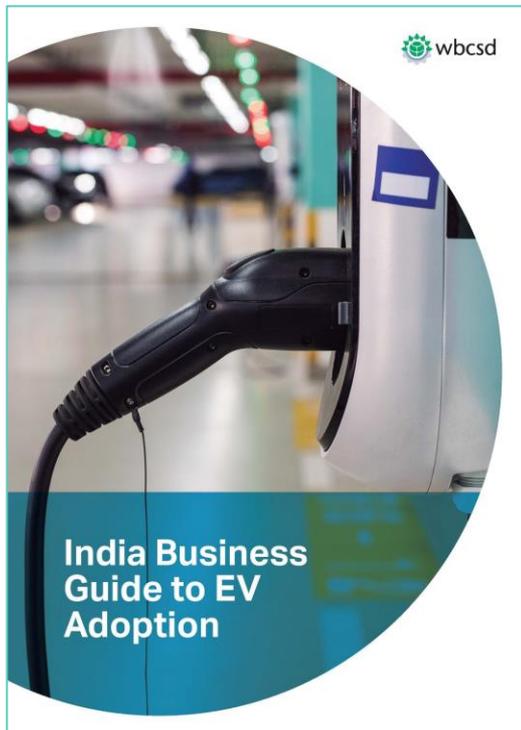


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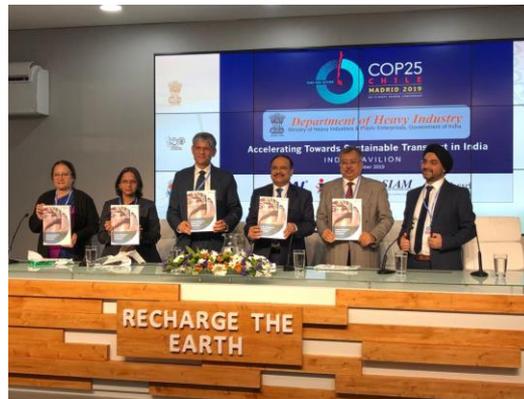


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India Business Guide to EV Adoption launched at the India Pavilion at COP25



[Download here](#)



Report launch at COP25, Madrid by Secretary - DHI, Secretary - MoEFCC, Director - DHI, Director - ARAI and CSO - Mahindra & Mahindra

The 2020-2030 decade will be the crucial for EV transition in India. A slow transition could mean 10s of millions of additional ICEs on Indian roads

Given the high utilization of vehicles in business fleets, it makes most sense for businesses to adopt EVs

The 30% EV sales target by 2030, if achieved, would lead to reduction of 52% CO2 emissions emitted by an equivalent ICE fleet

Highlights

- **25 companies** joined the Community of Interest to create content for the India Business Guide to EV Adoption
- How-to guide for deployment of EVs across use cases such as: **employee transport, ride hailing and urban deliveries**
- Case studies in the report from early adopters showcase how business decisions in favor of EVs over ICEs led to 73 million EV propelled kilometers by just 8 companies doing early adoption, saving over **5,000 tons of CO2**

Prioritized use cases for vehicle electrification



Employee transport

Ride hailing

Urban freight & deliveries

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WBCSD and BluSmart announce an all-electric ride hailing demonstration service in Delhi (National Capital Region), India



Project demonstrates the practicality of transitioning the booming app-based ride sharing market to EVs



Objective is to ensure success of demonstration project; learn from it and share knowledge of solutions and challenges



Adopting EVs in India could save 37% of India's projected carbon emissions by 2030: NITI Aayog



A vehicle on a ride-hailing platform can travel 200-400 kms daily, making EV adoption viable vis-à-vis ICE vehicle

200+
Electric Vehicles (EVs) deployed in Delhi by 2020

4.7 m
Clean kms driven until March 2020



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Department of Heavy Industry (DHI), Government of India, asks WBCSD to make policy recommendations related to business and fleet led adoption of EVs

\$ 1.4 b

Incentives package until April 2022 administered by DHI

6

Consultation meetings completed

30+

Companies participating in formulating recommendations

July

Submission of recommendations; ahead of August review for current policy



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Next steps

REmobility: scoping of project deliverables for 2021- 2025

| New activities | Output and outcome |
|---|---|
| Scale up REmobility (action collaborative) | <ul style="list-style-type: none"> • Scale up participation and impact of REmobility as an action collaborative. • Participating businesses showcase 1 billion kms of electrically propelled mobility through own actions by 2025 • Continued collaboration and policy engagement on accelerating adoption of EVs at national and sub-national level – with an added focus on heavy transport |
| India Charging Collaborative | <ul style="list-style-type: none"> • Charging collaborative formed for scale up and interoperability (roaming) of charging infra: OEMs, charge point operators, real estate companies and utilities come together on a common platform. • India Charging Collaborative takes leadership on accelerating private investments in charging infrastructure. |
| India Business Guide for Adoption of Electric Freight Vehicles | <ul style="list-style-type: none"> • Businesses collaborate to create a knowledge product that supports accelerated deployment of electric freight vehicles for long distance transport. |
| Call for zero emission freight vehicles | <ul style="list-style-type: none"> • Indian businesses operating over 50,000 freight vehicles come together to call on OEMs to make freight vehicles available in India. • National demand for electric freight vehicles showcased for action by OEMs – solving a key challenge, i.e., freight vehicle availability. |
| SOS 1.5 Automobile sector decarbonization | <ul style="list-style-type: none"> • Prominent automobile manufacturers create roadmap for net-zero emissions, adopt circular economy principles, and set deadline for 100% electric vehicle portfolio. • SOS 1.5 is a flexible roadmap to help companies: <ul style="list-style-type: none"> ○ Learn & Individually develop a strategy to move their carbon footprint to net-zero ○ Collectively address barriers including carbon accounting challenges (scope 3, GHG, SBTi..) ○ Mobilize their full ecosystem and supply chain in the same direction(Pathways) |

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