



Smart Freight
Centre



Pathways to decarbonisation

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- What does it take to decarbonise?
- Beyond decarbonisation: resilience
- Competitive sustainability



Smart Freight Centre

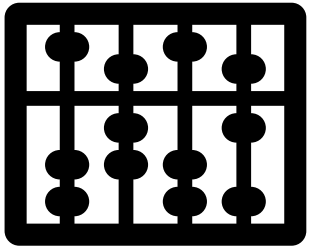
Vision

**A zero-emission
global freight &
logistics industry**

Mission

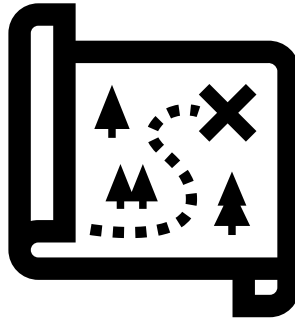
To accelerate the reduction of logistics emissions by fostering **collaboration** within the global logistics ecosystem.

The corporate pathway to decarbonisation



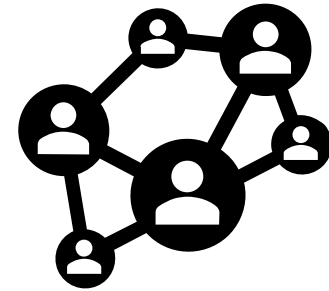
**Calculate,
Report &
set Targets**

**Where are we
now and where
are we going?**



Reduce

**How do we
get there?**

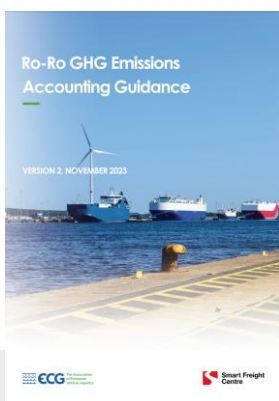
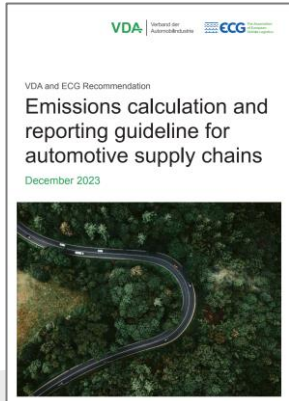
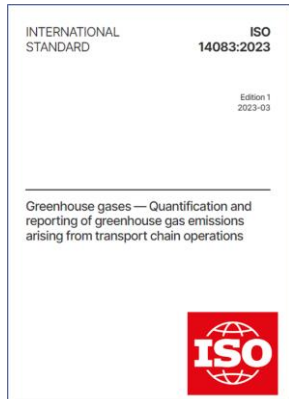


**Collaborate
& Advocate**

**What do
we need?**

SFC & ECG partnership

**Calculate,
Report & Targets**



Reduce

**Development and
updating of Industry-
Specific Guidelines
and Training**



Training
**Sustainability and carbon emissions
accounting for vehicle logistics**

**Collaborate
& Advocate**

**Advocacy and
Stakeholder
Engagement**



What it takes to decarbonise

Example for electric trucks and charging



» IAA
TRANSPORTATION



Electric trucks and charging

A complex regulatory landscape

European Green Deal

2030 Climate Target Plan

Fit for 55 Package

National Energy and Climate Plans (NECPs)

European Climate Law

Effort Sharing Regulation

EU & National Long-Term Strategies

TRANSPORT

- Sustainable and Smart Mobility Strategy
- Trans-European Transport Network (TEN-T) policy and regulation
- Alternative Fuel Infrastructure Regulations (AFIR)
- Weights and Dimensions Directive
- CO2 emission standards for heavy-duty vehicles
- Euro emission standards (Euro 7)
- Greening Freight Transport Package
- Directive on end-of-life vehicles (ELV Directive)
- European Mobility Data Space (EMDS)
- EU standards for safe and secure parking areas
- Eurovignette Directive

ENERGY

- Trans-European Energy Network (TEN-E)
- EU Strategy on Energy System Integration
- EU Hydrogen Strategy
- RePowerEU Plan
- Energy Efficiency Directive
- Renewable Energy Directive (RED-II)
- Hydrogen and Decarbonised Gas Market Package
- Electricity Market Design
- Energy Performance of Buildings Directive (EPBD)

INDUSTRY

- Green Deal Industrial Plan
- Net-Zero Industry Act
- Critical Minerals Act
- Chips Act
- Carbon Border Adjustment Mechanism (CBAM)
- Ecodesign for Sustainable Products Regulation (ESPR)
- Regulation on Batteries and Waste Batteries
- Circular Economy Action Plan

OTHER

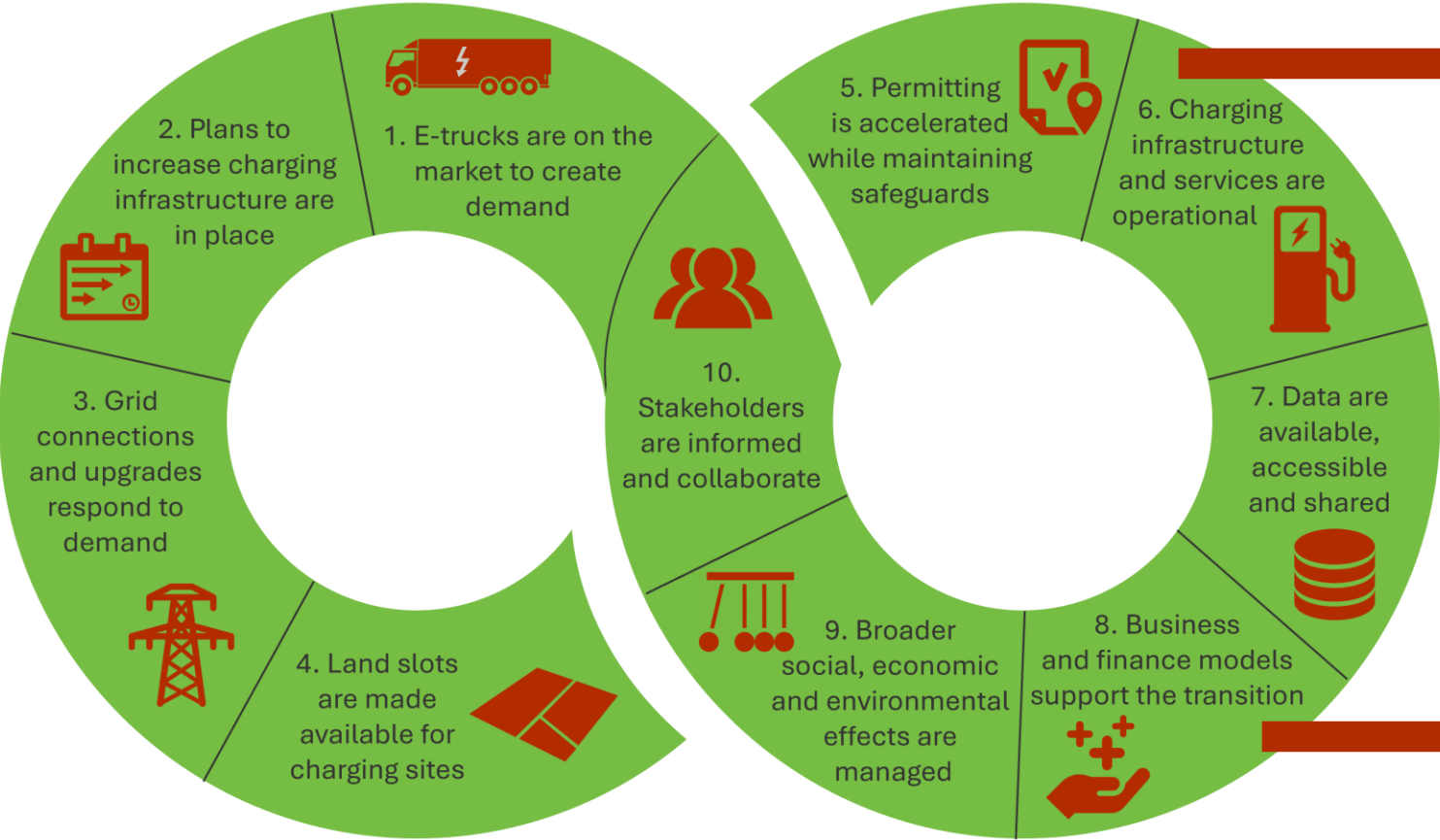
- EU Emissions Trading Scheme (ETS)
- ETS for Road Transport & Buildings (ETS II)
- EU Taxonomy
- NextGenerationEU Plan
- EU New Cohesion Policy 2021-2027
- InvestEU Programme
- Just Transition Mechanism and Social Climate Fund
- EU Data Strategy
- Directive on Corporate Due Diligence

S. Punte, Actionable Framework for E-trucks and Charging – a reference paper to organise climate action. October 2023

Electric trucks and charging

It's more than just buying an e-truck!

Ten success factors for e-trucks and charging

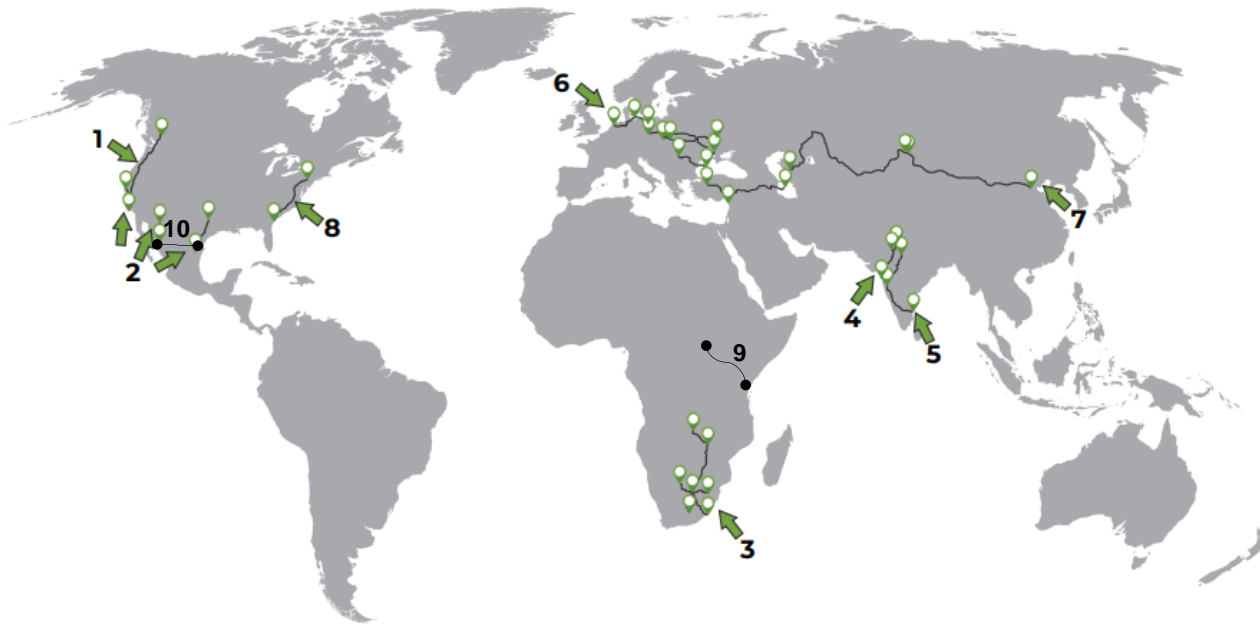


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Electric trucks and charging

Collaboration along hubs and corridors as entry point

Global Green Road Corridors (GGRC) initiative:
develop of at least ten Global Green Road
Corridors globally by 2026, demonstrating models for
successful infrastructure deployment and finance and
creating a pathway for replication and scale.



1. FIFA 2026 Corridor (Canada-USA-Mexico)
2. USA-Mexico border corridors (California – Baja California, Texas – Nuevo Leon, Arizona - Sonora)
3. Southern Africa Container Corridor (Port of Durban including South Africa, Lesotho, Eswatini, Zimbabwe, Botswana, and Zambia)
4. India Corridor I (Mumbai-Delhi and Delhi-Jaipur)
5. India Corridor II (NH49: Delhi-Mumbai-Chennai)
6. European Corridor to Zero (Netherlands, Germany, Poland, Ukraine)
7. Trans-Caspian International Transport Route (TITR) Corridor (China through Kazakhstan, Azerbaijan, Georgia, and Turkey to Europe)
8. USA I-95 Corridor (Georgia – New Jersey)
9. Northern Corridor (Kenya, Uganda, Rwanda, Burundi, South Sudan, DRC)
10. I-10 (Los Angeles, California - El Paso, Texas)



Electric trucks and charging

Collaboration idea!!! 100% electric car carriers across Europe

Customers

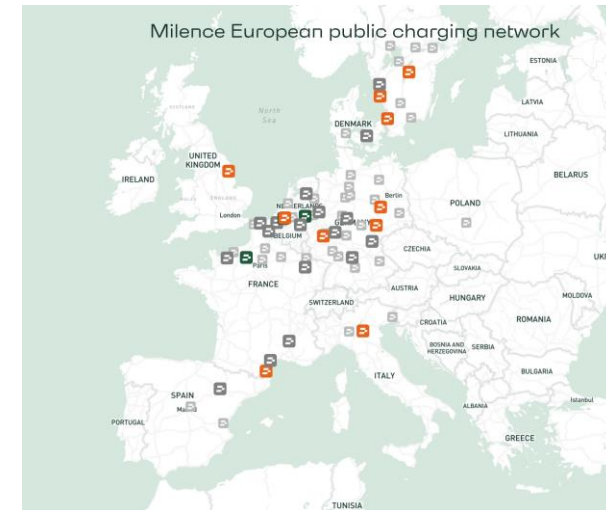
OEMs

Carriers

Charging providers

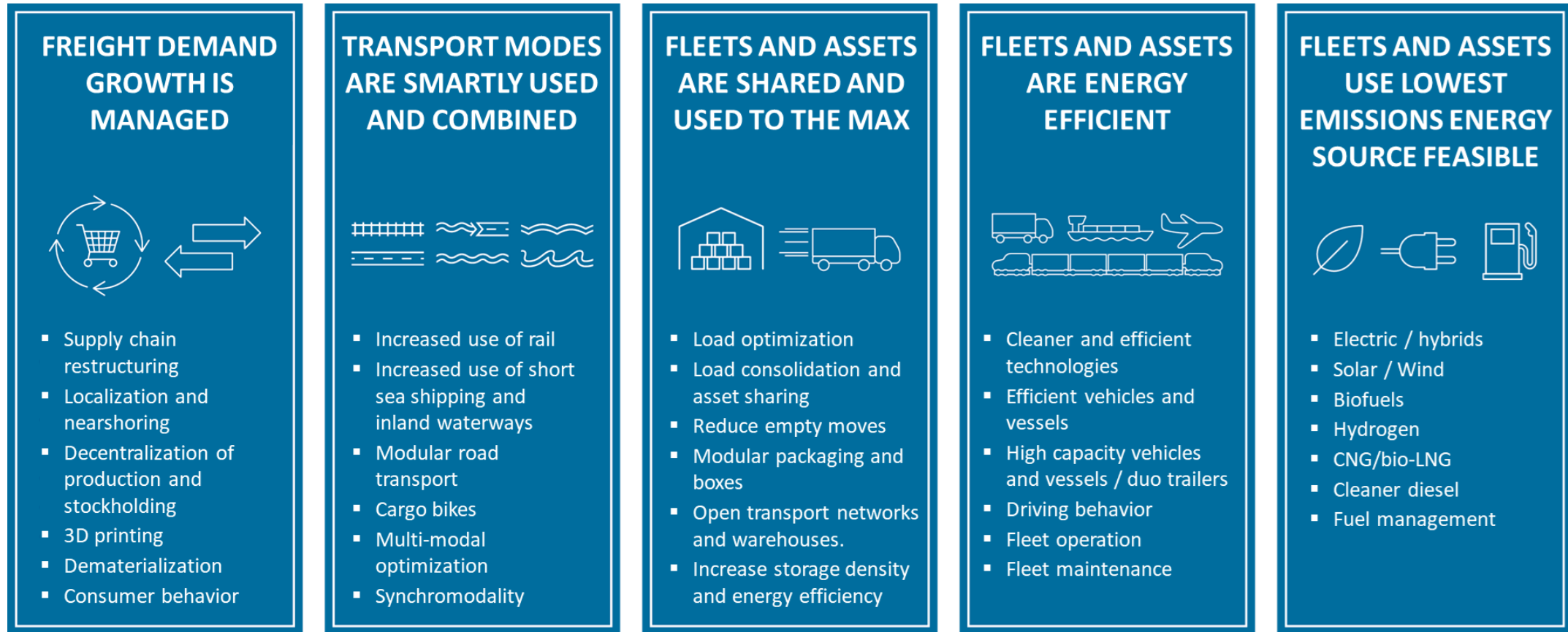


The Association of European Vehicle Logistics



+ Others...

Pathways to decarbonisation: ALL actions matter!



© Smart Freight Centre and ALICE-ETP based on A. McKinnon 'Decarbonizing Logistics' (2018)

Beyond decarbonisation: Resilience

Supply chains are our LIFELINES!

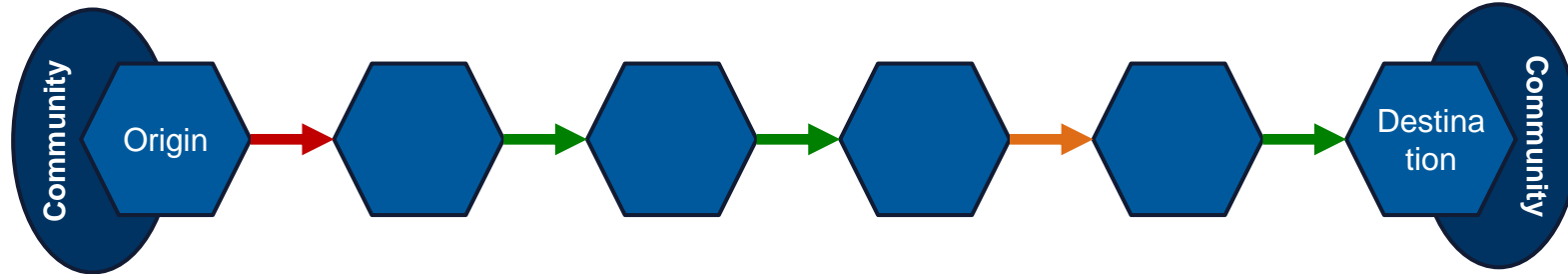
WHAT IF... we could bring partners to
co-invest and collaborate...

...to make supply chains more resilient,
while reducing emissions and improving
sustainability?



Creating Life-Links: 3 steps

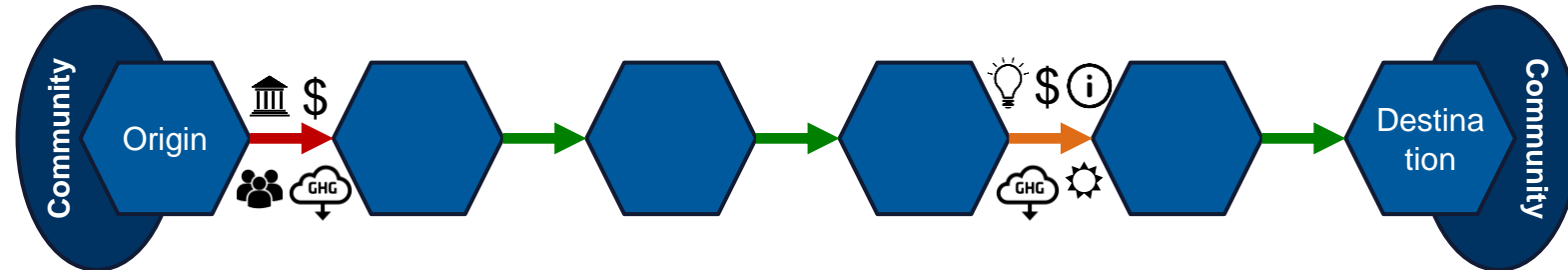
1. Supply chain assessment



Supply chain resilience:

- High
- Medium
- Low

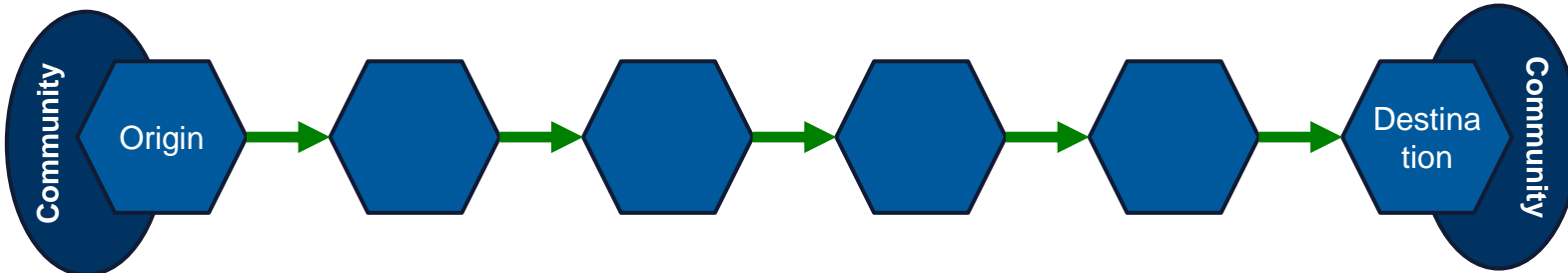
2. Action measures for critical links



Resilience measures:

- \$ Finance
- 💡 Innovation
- 📄 Information
- 🏛️ Social / institutional
- 👥 Human Capacity

3. Implementation with partners

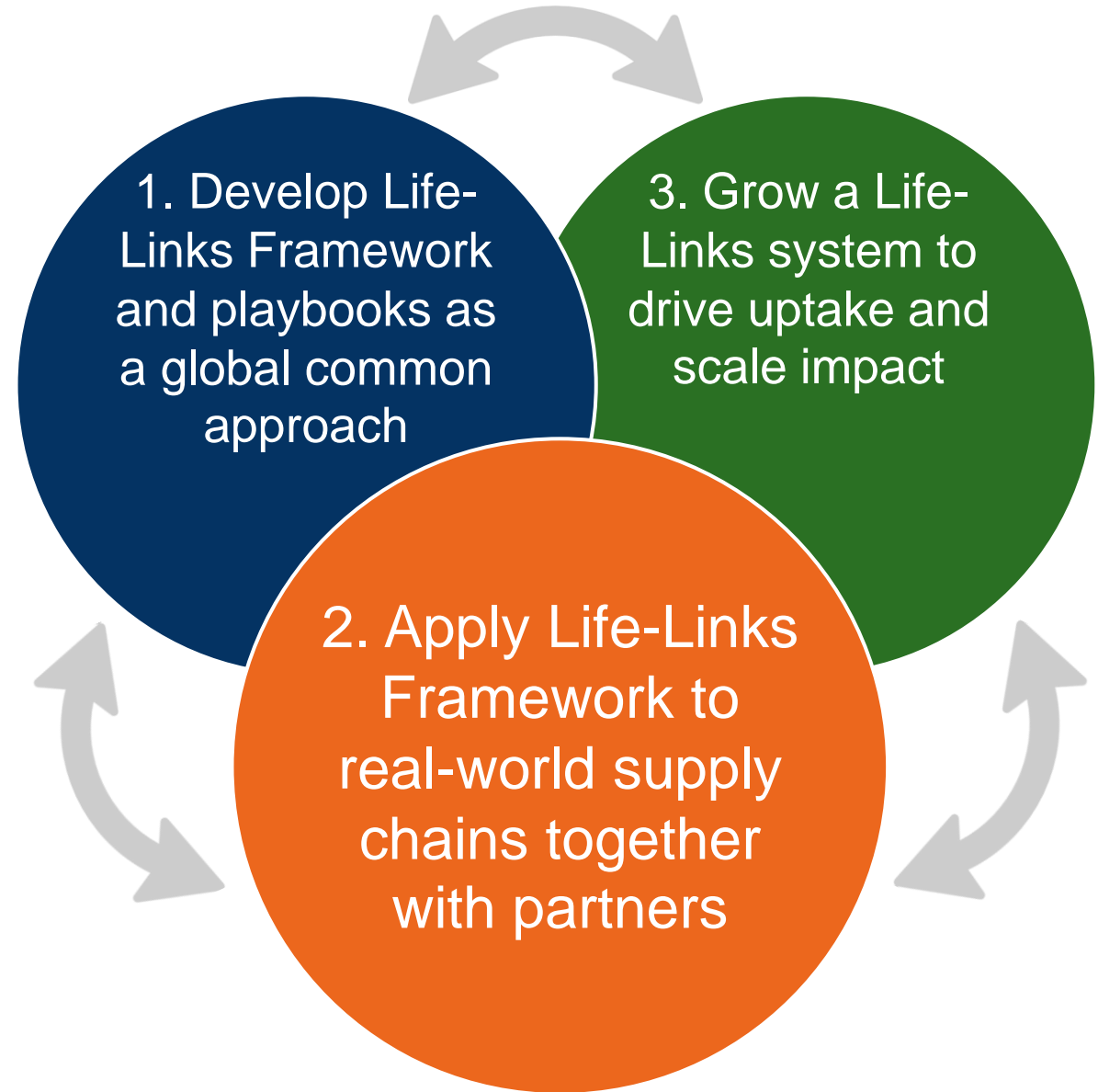


Other measures:

- ☁️ GHG GHG mitigation
- ☀️ Other sustainability

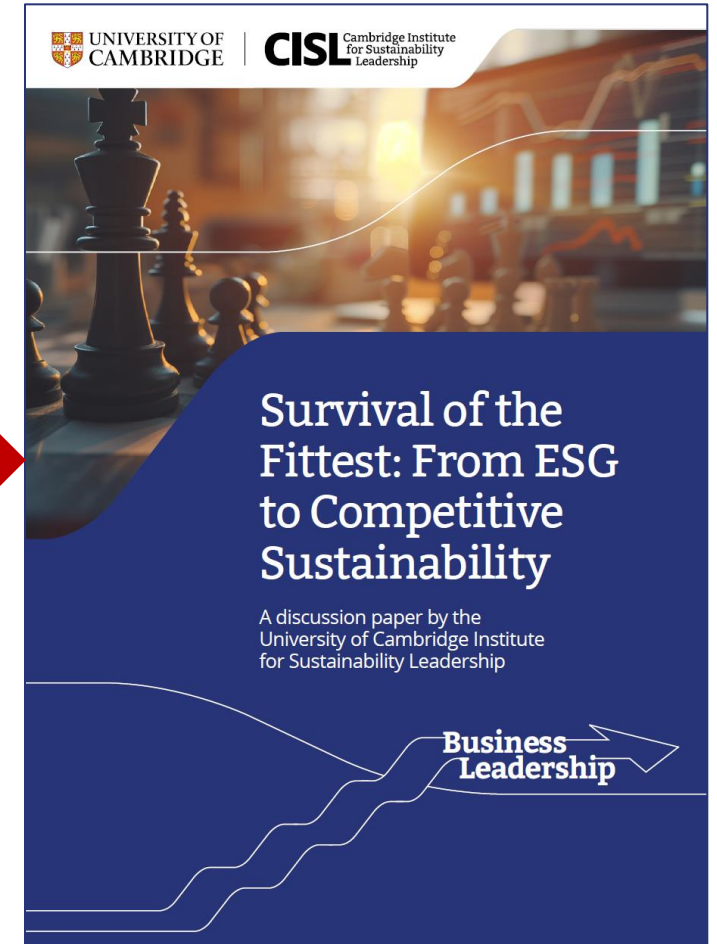


**Resilient supply
chains for good**



Competitive Sustainability

Putting business thinking into sustainability



COLLABORATION ideas!

- Decarbonisation: 100% electric car carriers across Europe
- Resilience: partnerships for critical vehicle logistics links
- Competitive sustainability: define for all ECG members

Join our journey towards efficient and zero-emissions global freight and logistics

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