LOGISTICS EMISSIONS ACCOUNTING AND REDUCTION NETWORK
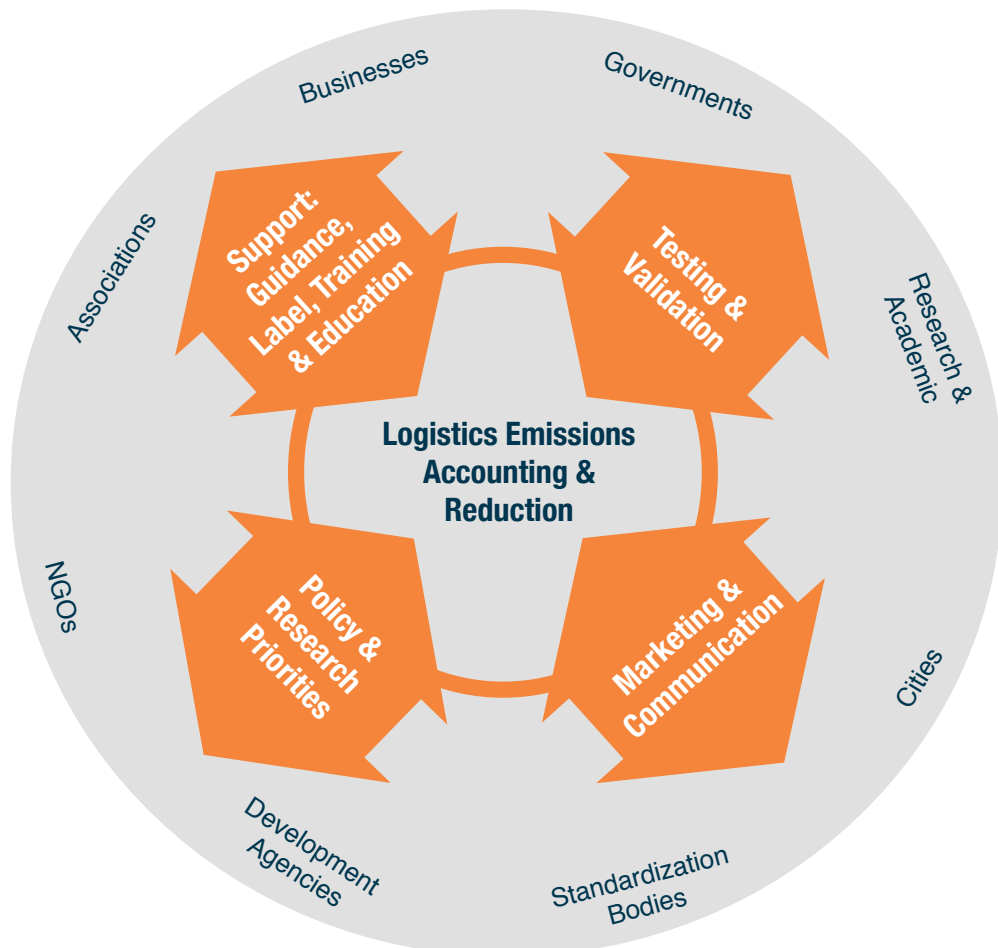
LEARN
Logistics Emissions
Accounting & Reduction
Network

Businesses that measure their emissions have the opportunity to make informed decisions that lead to improved efficiency and reduced emissions. The Logistics Emissions Accounting and Reduction Network project (LEARN) will create a global multi-stakeholder network to support businesses that want to reduce their carbon footprint across their global logistics supply chain. Logistics emissions measurement, reporting and verification   is improved and accelerated by LEARN in four ways:

1. developing support materials, training & education and the basis for a label,
2. testing and validating emissions measurement, reporting and verification (MRV),
3. setting policy and research priorities
4. communication of activities within the LEARN agenda

LEARN partners will work closely with related projects, organizations and initiatives to develop an active network addressing these issues. This network includes the Global Logistics Emissions Council (GLEC), a voluntary partnership of companies, industry associations and programs. The LEARN project builds on and seeks to improve the 'GLEC Framework for Logistics Emissions Methodologies' that combines existing methods and fills gaps, making carbon accounting work for industry. For the first time, emissions can be calculated consistently at the global level across all transport modes and transhipment centers.

FROM MEASUREMENT TO REDUCTION

Measure

Key steps in calculating emissions from multi-modal supply chains

- Define transport chains and freight services
- Collect data for shipments: weights and distances travelled
- Calculate fuel use
- Calculate greenhouse gas emissions (fuel x emission factor)

GLEC FRAMEWORK
FOR LOGISTICS EMISSIONS METHODOLOGIES

Report & Verify

Emissions data can be verified by external assurance providers and used for reporting to

- Management
- Public through corporate social responsibility reports
- Customers
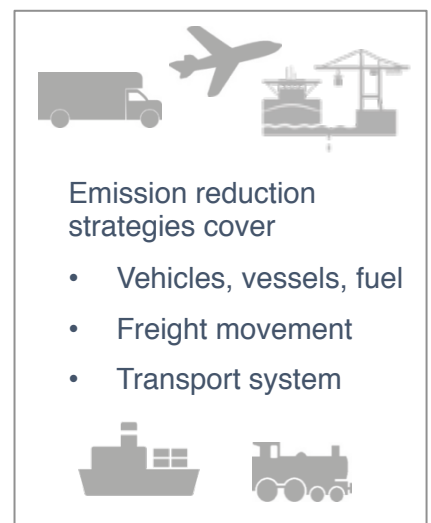- Programs and initiatives
- Governments

Emissions reporting to customers and programs/initiatives, e.g.

- Carbon Disclosure Project
- US SmartWay Partnership
- Lean and Green Europe
- Clean Cargo Working Group
- Dow Jones Sustainability Group Index
- Science Based Targets Initiative

Use Results

Emissions data can be used for

- Setting targets and tracking emissions
- Emission reduction strategies
- Supply chain optimization
- Carrier selection
- Risk management
- Product labels
- Carbon credits

Emission reduction strategies cover

- Vehicles, vessels, fuel
- Freight movement
- Transport system

LEARN ACTIVITIES FOR MRV AT SCALE

Provide support to companies to measure, report and verify emissions and use data to make decisions

- Guidelines for methodology application and verification combined with reporting templates

- Training courses in three languages for carriers, logistics service providers and cargo owners

- Blueprint of a label to reward companies based on consistent emissions accounting and reduction efforts, building on existing labels

Support: Guidance, Label Training & Education

Test, validate and evaluate with companies in complex logistics settings

- Practical applicability of emissions calculation and verification

- Feasibility of data exchange between logistics supply chain partners for calculation of shipment-level emissions

- Calculation requirements for a label based on greenhouse gas emissions

Testing & Validation

Promote and facilitate supportive policies and research

- Overview of gaps in methodology, data quality and exchange challenges, and requirements for a label

- Recommended research agenda for gaps, challenges and future label development

- Recommended priorities for government and industry on incorporating carbon footprinting into policy and decision making

Policy & Research Priorities

Maximize stakeholder involvement in LEARN and business uptake of carbon accounting and reduction

- Involvement of the LEARN multi-stakeholder network building on existing initiatives and networks

- International Workshops with companies and other stakeholders for input and dissemination

- Marketing and communication on activities, products and network during and beyond the LEARN project

Marketing & Communication

LEARN COALITION PARTNERS

The LEARN project receives funding from the European Union's Horizon 2020 research and innovation program. LEARN is implemented from October 2016 to March 2019 by a coalition of non-profit organizations, research institutes and industry associations. The first International Workshop will be held on 4 and 5 April 2017 in Brussels.

- CLECAT represents the interests of more than 19.000 companies employing in excess of 1.000.000 staff in logistics, freight forwarding and customs services. Multinational, medium and small freight forwarders and Customs agents are all within its membership, making the organisation the most representative of its kind.

- Connekt is a network organization with public and private members working together on sustainable, smart and social mobility and transport. Within the Lean & Green Europe community, 450 shippers, logistics service providers, carriers, retailers and ports are collaborating to reduce emissions and make their logistics more efficient.

- DLR German Aerospace Center is Germany's national aerospace and transport research agency. Based on a systemic approach, the Institute of Transport Research analyses the demand of transport and the interactions between transport, economy, society and the environment.

- The European Shippers' Council (ESC) represents the logistic interests of manufacturers, retailers and wholesalers, collectively referred to as shippers who want to safeguard the delivery of their products to their customers. Members are drawn from national shippers' associations, European commodity trade associations and businesses.

- Energy Saving Trust is a leading and trusted organisation helping people save energy every day. Our experts speak with millions of householders every year, deliver first class programmes for governments and provide consultancy to UK businesses and international companies.

- The Fraunhofer Institute for Material Flow and Logistics IML is a non-profit organization for comprehensive logistics research. Fraunhofer IML is engaged in the development and implementation of material flow and logistics systems to enhance efficiency, reduce costs as well as environmental and social impacts.

- IRU Projects is a Belgian non-profit entity established to support the road transport industry to reach the goals of sustainable road transport, increased road safety and security. IRU Projects works closely with the International Road Transport Union (IRU) and its 170 members in 75 countries globally.

- IVL Swedish Environmental Research Institute is an independent, non-profit environmental research institute, established in 1966, owned jointly by the Swedish government and the business community through a foundation. IVL is Sweden's leading organisation for applied research in the fields of climate, energy, environment, and sustainable growth

- The Network for Transport Measures, NTM is a non-profit organization formed in 1993 aiming to enable more sustainable transport solutions through; supporting measuring performance, providing benchmarking measures and evaluating improvement measures i.e. continuous improvements for shippers and transport service providers.

- Smart Freight Centre (SFC) is a global NGO leading the way to a more efficient and environmentally sustainable global freight sector. SFC works with businesses and other stakeholders to remove market barriers catalyzing the sector-wide action to improve fuel efficiency, reduce emissions and lower operating costs. SFC leads the Global Logistics Emissions Council (GLEC).

- TNO Sustainable Transport and Logistics (TNO STL) connects people and knowledge to create innovations that boost the sustainable competitive strength of industry and well-being of society. TNO supports clean and sustainable mobility through measuring, analysis and modelling of vehicle and transport emissions.

- TTR is a wholly owned subsidiary of TRL, specialising in the field of transport policy and operational research. Our projects focus on the links between transport and sustainable development, including a specialism in fleet efficiency, and the role of transport in promoting social inclusion.

- The National Union of Road Hauliers from Romania (UNTRR) is an employers' professional organization established in 1990, which promotes the interests of road transport industry, having more than 14.000 registered members – companies performing national and international road transport of goods and passengers.

- Zaragoza Logistics Center (ZLC) is an international center of excellence for research and education in Logistics and Supply Chain Management, established by the Government of Aragon in Spain, in partnership with the MIT Center for Transportation and Logistics (CTL-MIT) and the University of Zaragoza.

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