

## Carbon Footprint measurement and reporting

- Programme overview and next focused sessions
- LCA of vehicles
- EC related activities:
  - EC count your transport emissions initiative
  - Horizon Europe Coordination and Support Action 2023 Work Program draft: *Future proof GHG (greenhouse gases) and environmental emissions factors for accounting emissions from transport and logistics operations.*



Rik Arends  
Smart Freight Centre, SFC



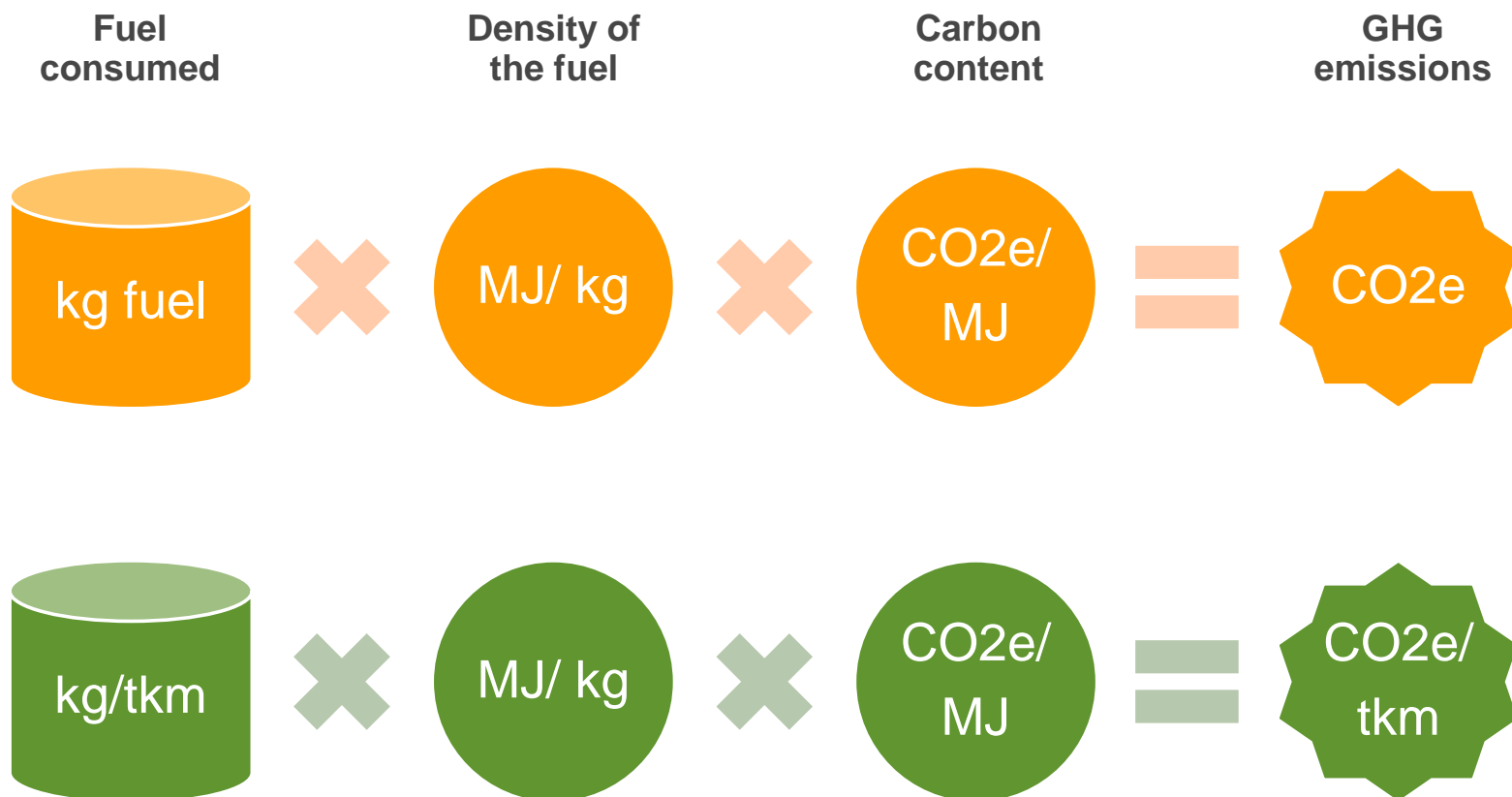
Fernando Liesa  
Secretary General, ALICE

Biofuels: HVO, B100, rapeseed, waste cooking oil, bio-LNG, many options,

What is sustainable and what is the GHG reduction potential?

Introduction of Smart Freight  
Centre's Low Emission Fuels  
and Vehicles Program





## Global Logistics Emissions Council Framework

Logistics  
Emissions  
Accounting  
and Reporting  
Version 2.0

## Well-to-wheel GHGs

Source of the  
biofuel



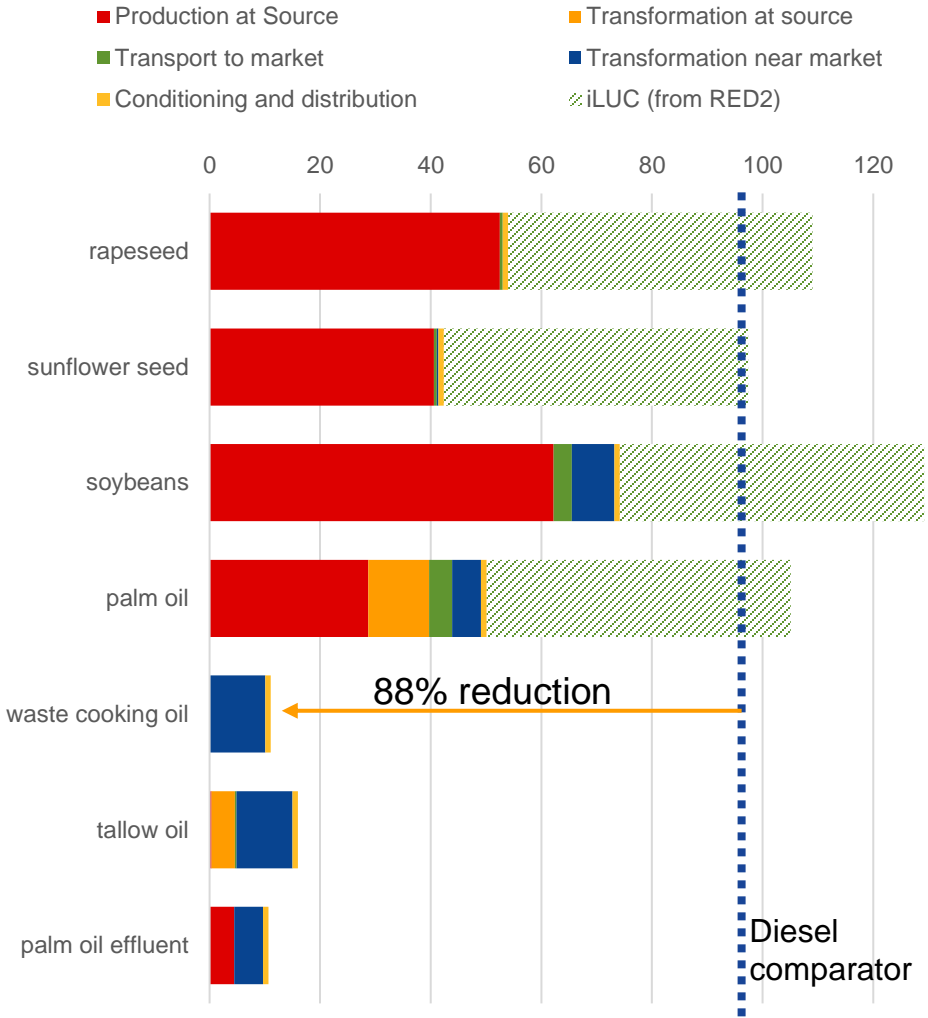
Distance  
biofuels  
source to use



Efficiency  
biofuels plant



Variation in HVO Emission Factors  
Source: JEC v5; gCO2e/MJ; WTW incl iLUC



# The Low Emission Fuels and Vehicles programme aims to aid transparency in GHG reporting of biofuels in the transport sector

## Objectives

- **Set and harmonize the emission factors** for biofuels used in road freight
- **Clarify sustainability and certification** of biofuels
- **Develop a group and work program** of interest to continue beyond biofuels

## Approach

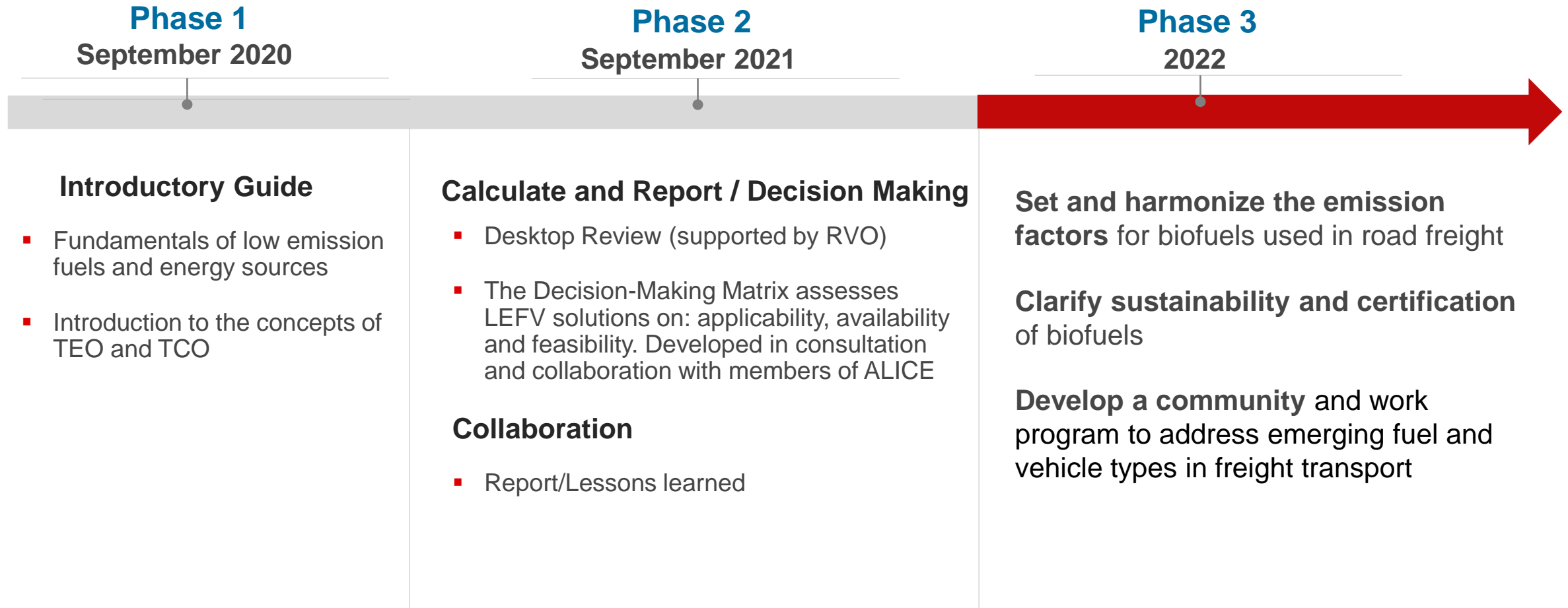
- Review **emission factors** and their LCA analysis for road freight
- Carry out **a consultation of the emission factors** for road freight
- Launch specific **discussions around biofuels** (e.g. bio-LNG, rapeseed, certification schemes, etc.)
- **Compare and contrast purpose, scope and sustainability principles** used in existing sustainability frameworks



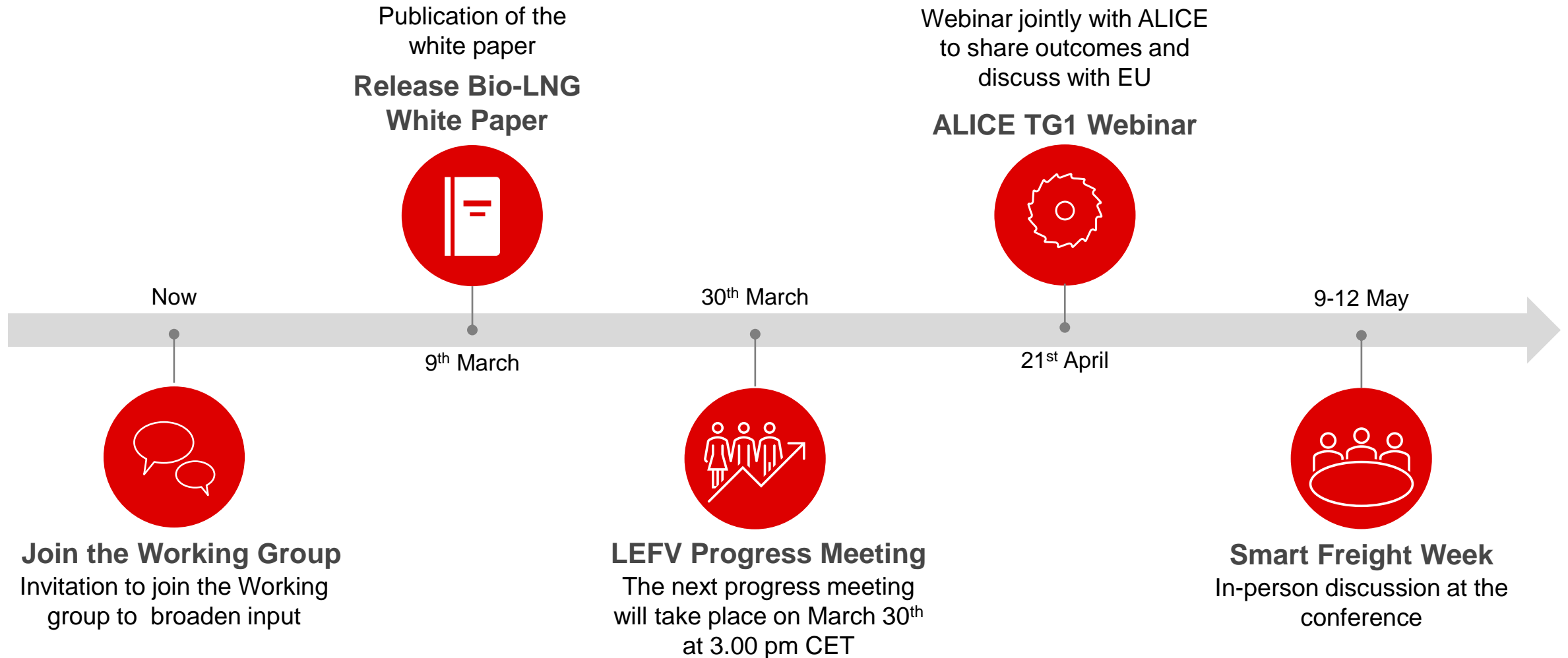
## Output

- **List of granular agreed emission factors** for inclusion in the GLEC Framework
- **Guidance on sustainability** topics applicable to biofuels in road transport and how it may be addressed





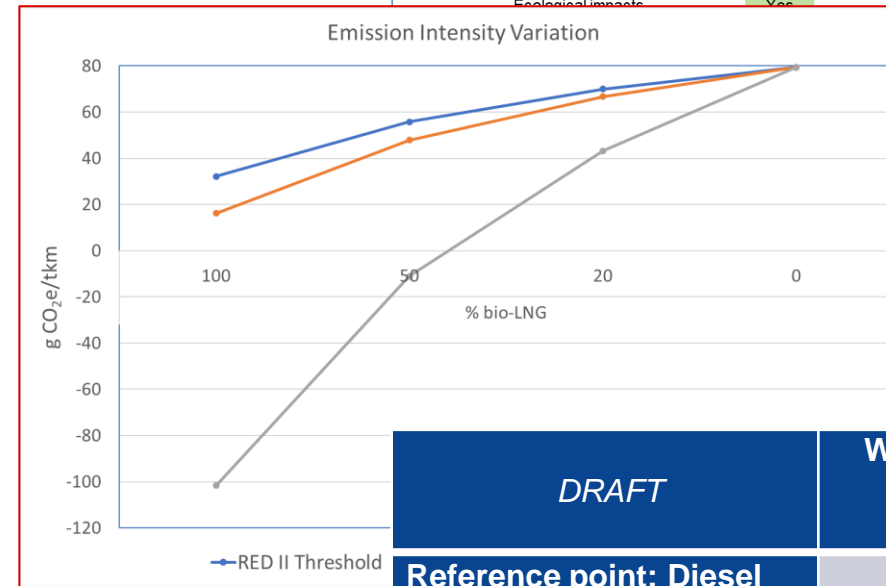
# We will host monthly technical progress and discussion meetings and selected public webinars



# Discussions will center around the sustainability and emission factors of logistics emissions

- Clarify approach to biofuels accounting
  - Emission factors by feedstock
  - Influence of engine technology
  - Contribution of methane slip
  - Other relevant factors (e.g. iLUC)
  - Drive cycle = long distance, heavy duty freight
  - Establish blueprint for other fuels
- Review of sustainability criteria, legal requirements and certification schemes
- Be of practical nature

Category	Sustainability theme	SSI	LCFS	RED II	RSB	CORSIA	ETC	ISCC
Environmental	GHG emissions	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	SLCF emissions	Yes						
	Air quality	Yes	Yes		Yes	Yes		Yes
	Carbon source	Yes	Yes		Yes	Yes	Yes	Yes
	Electricity/energy source	Yes	Yes					Yes
	Water	Yes			Yes	Yes		Yes
	Sustainable resource use	Yes			Yes	Yes		Yes
	Land use	Yes	Yes	Yes		Yes	Yes	Yes
	Ecological impacts	Yes		Yes	Yes	Yes	Yes	Yes
					Yes	Yes	Yes	
					Yes	Yes		Yes
					Yes	Yes	Yes	
		Yes						Yes
		Yes						Yes



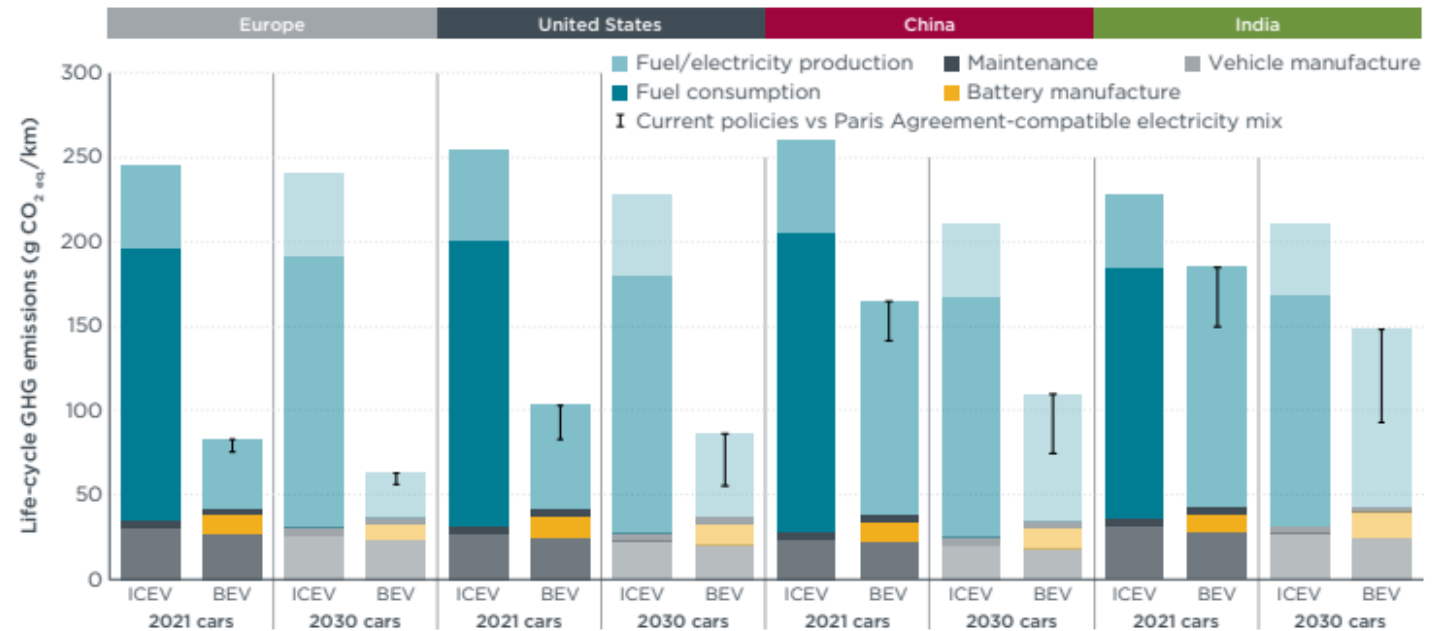
DRAFT	WTW emission intensity (gCO <sub>2</sub> e/tkm)	
Reference point: Diesel	79.0	
Reference B5 biodiesel blend	77.5	
	Spark Ignition	HPDI
Fossil LNG	79.4	70.9
Bio-LNG, RED II threshold	32.3	32.6



As new energy carriers get close to zero, we need to address the sustainability of the vehicle production, but how to allocate the emissions in a corporate report?

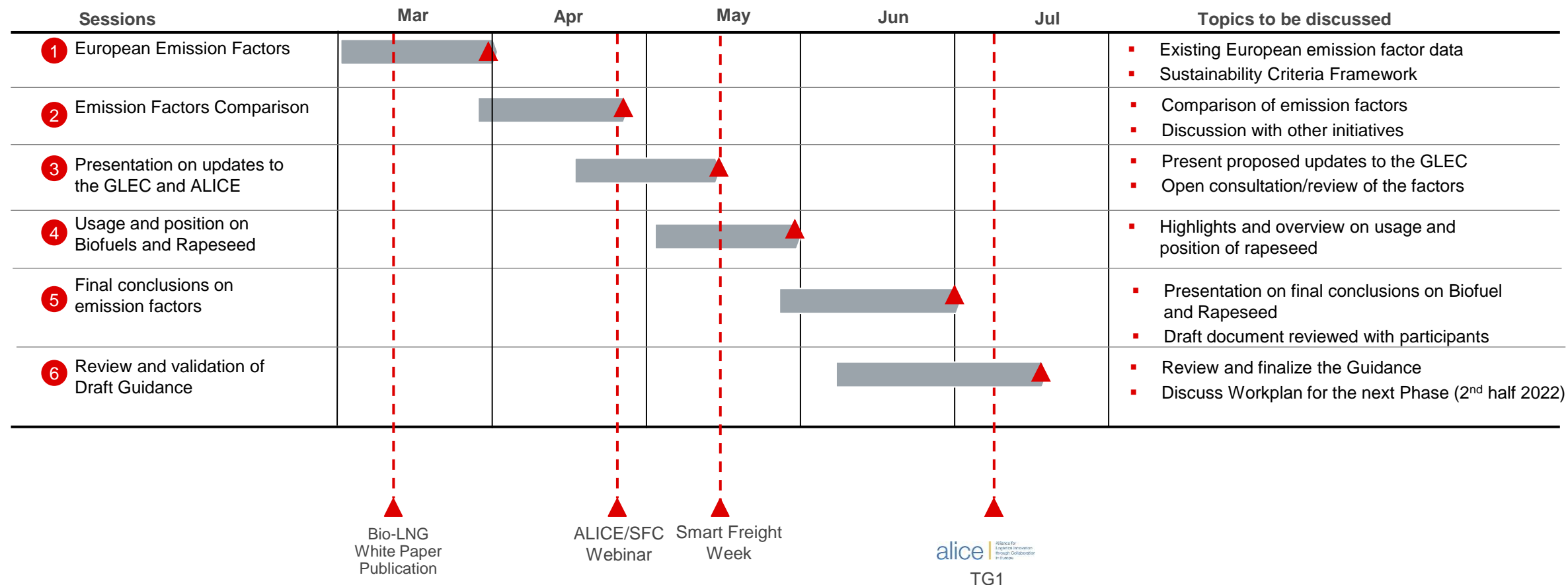
Moving beyond BEV and FCEV from renewable energy

A need to establish a harmonized methodology for reporting your scope 3 emissions from the vehicle production, dismantling, infrastructure, etc.



Global comparison of life-cycle greenhouse gas emissions of combustion engine and EV passenger cars (ICCT)

Illustrative, exact timings to be confirmed





In consultation and  
collaboration with:



**Do you want to be part of this working group?**





## CountEUemissions: Upcoming new European Regulation

This initiative sets out a common framework to calculate and report transport-related greenhouse gas emissions, intending to build upon the GLEC Framework and forthcoming ISO14083

Proposal for a regulation

Comments are closed





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

Questions? Feel free to reach out.

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