

Metodica ATIEL-UEIL per il calcolo della Carbon Footprint dei lubrificanti

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Today's session - what we will cover

01

ATIEL and its
role in the
industry

02

The
regulatory
landscape

03

The PCF
calculation
methodology



EELQMS

EUROPEAN ENGINE
LUBRICANTS QUALITY
MANAGEMENT SYSTEM

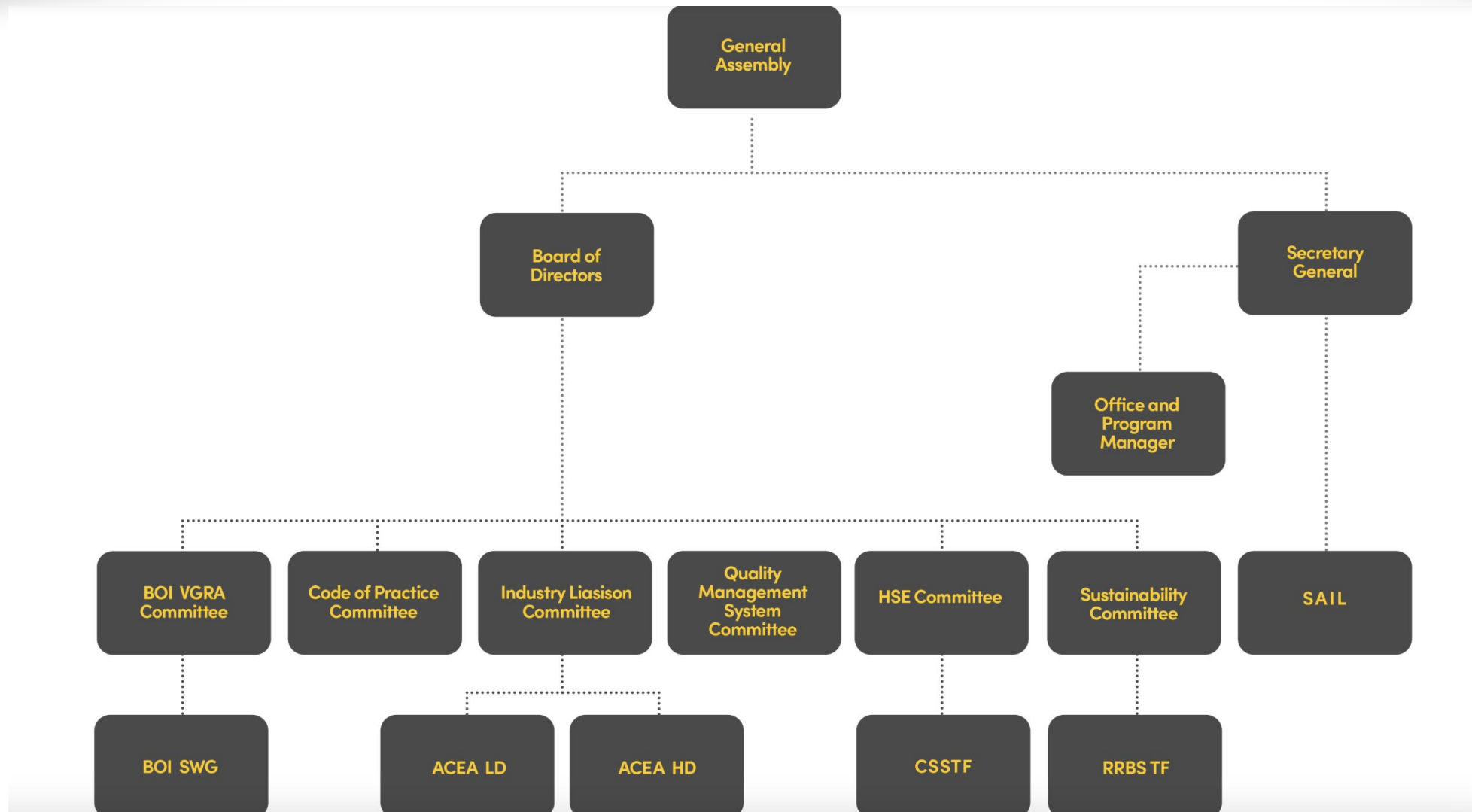
01

ATIEL's role in the industry

Introduction to ATIEL

- ATIEL is a non-for-profit association representing the combined knowledge and experience of leading European and international engine oil manufacturers and marketers
- ATIEL promotes consensus on key technical, product stewardship and sustainability issues, ensuring that engine oils continue to contribute to improved wear protection, deposit control, lower emissions, and fuel economy CO2 emissions efficiency
- **Monitors** current and future technical trends and regulatory programmes
- Acts as a **focal point** for technical issues relating to the performance and environmental demands of engine oils.





ATIEL's added value: key technical activities for ..



QUALITY. Key reference: **ACEA Sequences**

- Developing **guidelines** and **best practices** for formulation of engine lubricants
 - Promoting **superior quality** products in the market
 - Supporting auditable **quality management systems**, carrying out **quality surveys** to assess levels of quality compliance in the marketplace
 - Contributing to development of industry engine and laboratory **tests**.
- ACEA requires engine lubricants to be developed in accordance with the **European Engine Lubricant Quality Management System (EELQMS)**.



PRODUCT SAFETY

- Developing **generic exposure scenarios** and guidance to assist lubricants companies to **comply with EU's REACH regulation**
- Developing **common practices** on health, safety and environmental issues



SUSTAINABILITY

- **Carbon Footprint** and renewable carbon content
- **LCA** greenhouse gas accounting methodology
- **Recyclability- RRBS** (re-refined base stock)
- **In use benefits**



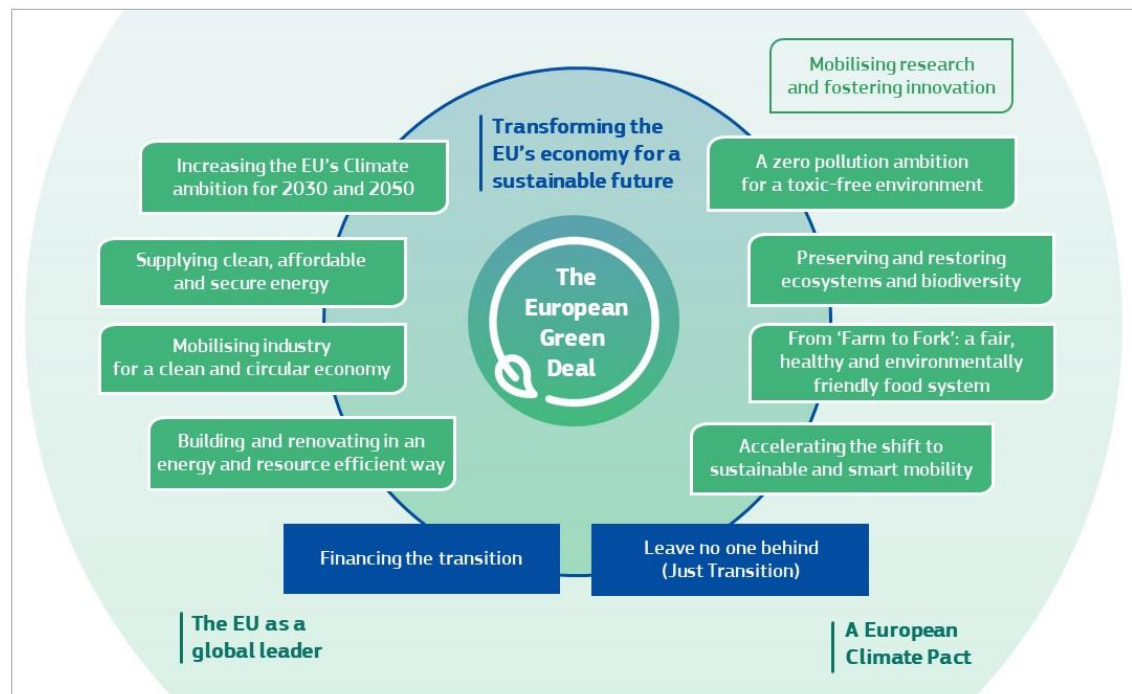
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The Regulatory Landscape

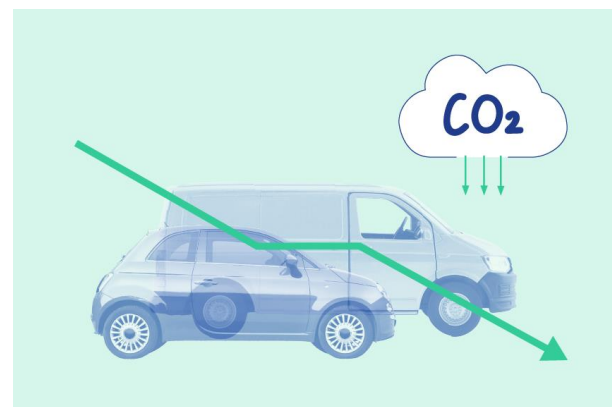
A turning point for the industry



Complexity and ambition



- Legislation on decarbonization of road transport (Fit for 55, ICE ban for new cars and vans from 2035 (...), CO2 emissions limits for HD...
- EU Chemical strategy for Sustainability, REACH, PFAS, CLP, ESPR..
- Circular Economy Action Plan



Effective Navigation

- Proactive approach
- Compliance
- Optimization
- Adaptation



Collaboration is key

acea



ATC



[....]



03

The PCF calculation methodology

A significant impact on fuel economy

- Lubricants have made a significant direct and indirect impact on **reducing EU CO₂ emissions** thru **increased fuel efficiency** of road vehicles since 2005.
- Avoided emissions account for 2.2 up to 4.1 **percent** of reduction per year in road transport CO₂ emissions to 2020.
- lead to an additional **1.0-1.3 percent** reduction by 2030.

Source: ATIEL/RICARDO, 2019



The industry's proactive approach: ATIEL-UEIL harmonized methodology for PCFs for lubricants and greases



Methodology for PCF Calculations of Lubricants and other Specialties



**Joint ATIEL-UEIL
Sustainability Committee**



Background: address the needs of comparable Footprints...

- Climate change - Paris agreement - governments working on regulations - companies seeking level playing field
- PCF a great tool to assess impact of a product system on climate change
- ISO 14067 high level standard but still allows different approaches
- Lubricants industry wanted to develop more accurate methodology, and we did ! → Our industry's **specificity** vis a vis other segments and methodologies

Roll out, towards adoption



Summary

1. Lubricants industry is providing solutions to the green transition
2. Complex and ambitious regulatory framework emerging, EU Green Deal means we are in for a long period of activity to become **ever-more sustainable** and **transparent** as an industry
3. The ATIEL-UEIL PCF methodology provides level playing field, transparency and consistency across the value chain
4. Continued **collaboration** within the entire lubricants value chain and other relevant stakeholders is key, being “**glocal**”

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