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[Workshop] Follow-up Workshop on Real-World Energy Efficiency and Emissions of Electric Freight Vehicles TG1 Webinar

Recap & warm up

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Alliance for Logistics Innovation through Collaboration in Europe

Follow-up Workshop on Real-World Energy Efficiency and Emissions of Electric Freight Vehicles TG1 Webinar

23th June | **11.00 to 12.00 CEST**

CLEVER ZEFES FLEXMCS MACBETH

TG1

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Energy efficiency and emissions of electric vehicles

Takeaways previous webinar

- **Energy efficiency**: ERS > BEVs >> FCE
- Weight & charging time **penalties** with BEVs
  - ➔ 10-25 % increase in logistics costs & more trucks on the road
- **Charging inefficiencies** of 10–15% from CP to Battery!
- BEVs can be competitive if **electricity prices** are low and there are **incentives to BEVs or penalties to Diesel** ➔ ETS II, Euro vignette, HDV CO2 standards, Weight & Dimensions
- Predictive **simulations tools** crucial for decision making and planning → Need to check with real data!!!
  - Route profiles.
  - Max 65% battery capacity is usable
  - **Understanding the landscape of technologies and options is a must now.** Operating electric trucks is by far much more complex than diesel trucks, still there will be more and more cases in which they will be beneficial
- ZEFES, MACBETH and FLEXMCS **projects addressing shortcomings and developing tools/knowledge**
- Other solutions: Battery Swapping, Electrified Road Systems
- ISO 14083 and the GLEC Framework: **CLEVER** Emissions Factors harmonization
  - From voluntary to compulsory emissions measurement: Count Emissions EU

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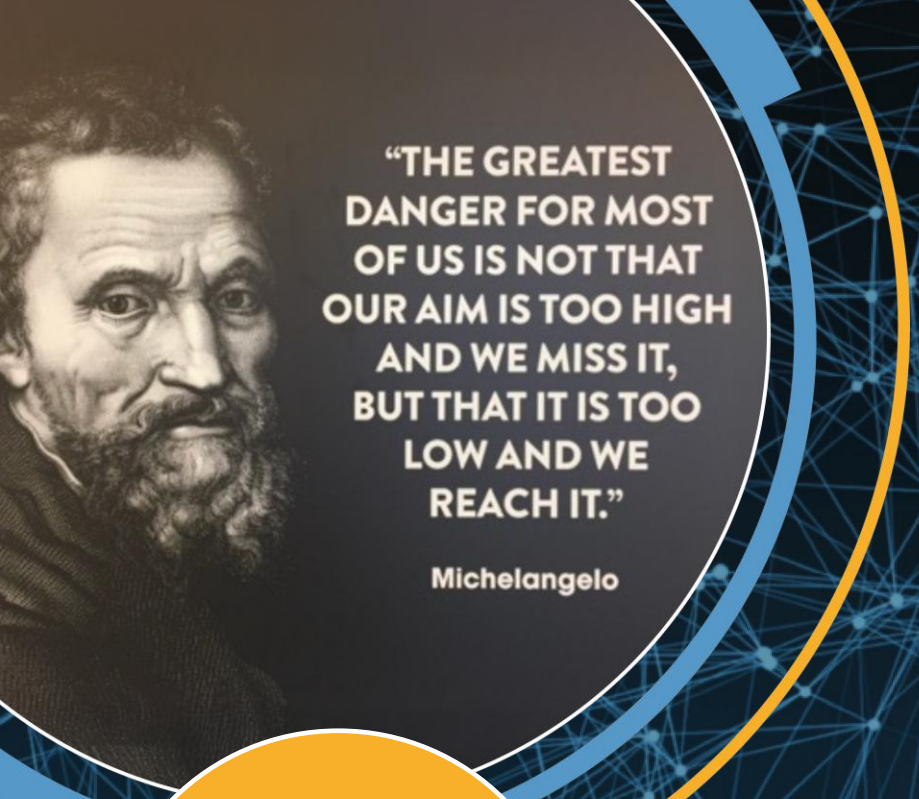

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The best way to predict the future is to co-create it!

THANK you!

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