

UNECA CONTINENTAL WORKSHOP ON E-VEHICLES INSPECTION

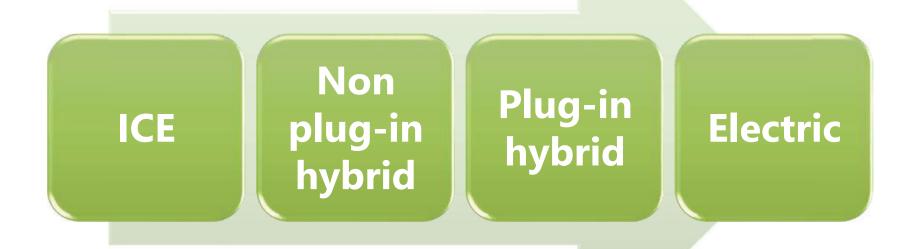
The challenges of e-vehicles

October 18th, 2023



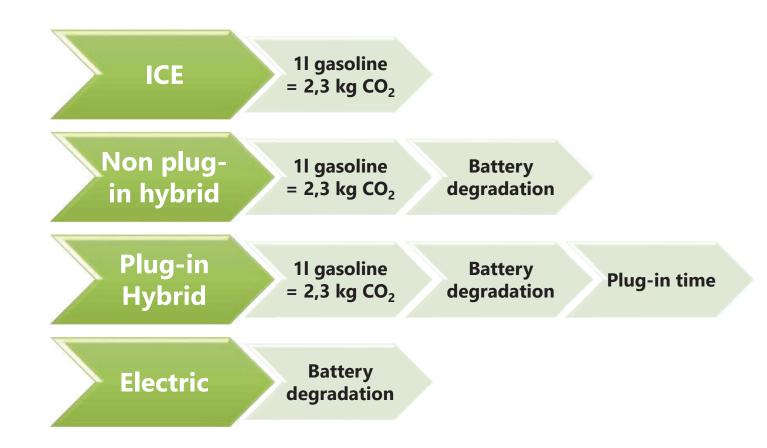
Whereas this presentation highlights the challenges, electrification is the way forward for road transport





ICE: Internal Combustion Engine



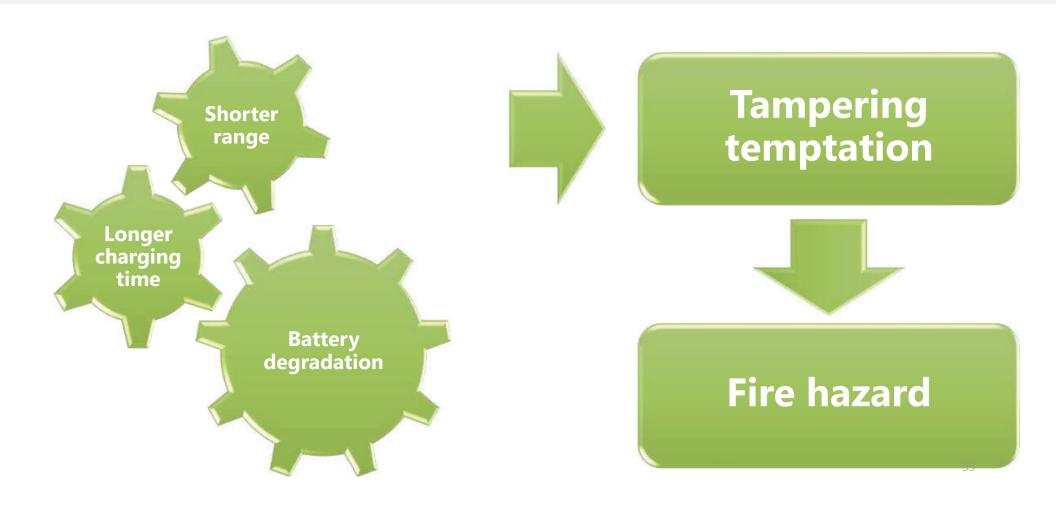




A hybrid vehicle with worn or empty batteries is an ICE vehicle drawing x hundred kg of useless weight







Challenge 2: indicators



- ✓ Fuel consumption = GHG emission ► theory and reality not always matching
- ✓ WLTP cycle: fuel consumption data refers to the first 100 km. Does it properly represent plug-in hybrid vehicles?
- ✓ Battery range ► theory and reality not always matching
- ✓ Battery State of Health SoH: a key parameter

Challenge 3: vehicles procurement



New vehicles:

- Fuel consumption
- Battery range
- Battery charging time
- Battery durability

Used vehicles:

SoH

Challenge 4: Vehicles in use





JUNE 2023 | POSITION PAPER

ENSURING LIFETIME COMPLIANCE OF ELECTRIC VEHICLES WITH SAFETY AND SUSTAINABILITY REQUIREMENTS.

- REVISION 01



https://citainsp.org/wpcontent/uploads/2023/06/CITA WP BEV REV1 1 5062023 FINAL.pdf

Challenge 5: Where is the benchmark?



We still do not have an inspiring reference



The way forward



Making vehicle electrification a success history:

- ✓ Knowing technology limitations
- ✓ Being aware of indicators' meaning
- ✓ With an impartial assessment of vehicles



Thank you for your attention!

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