

Volvo Trucks. Driving Progress



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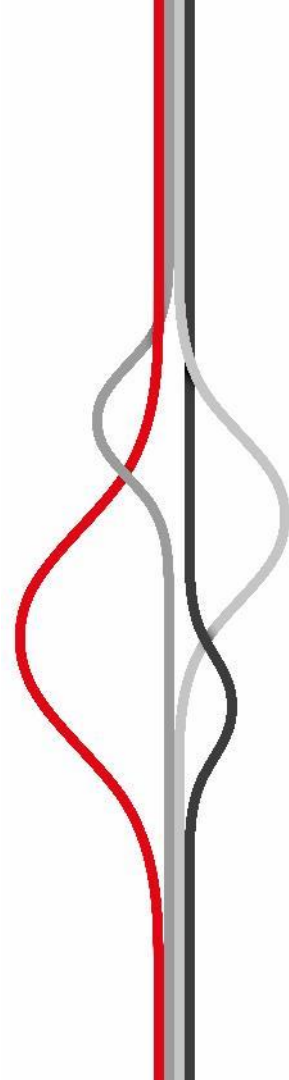
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Future Haulage

Presentation to Timber Transport Forum
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Future Haulage



- Alternative power
- Connected and Autonomous
- Modes
- The Industry







Future Power – 2020s



Smaller

Electric

Possible hybrid

Larger

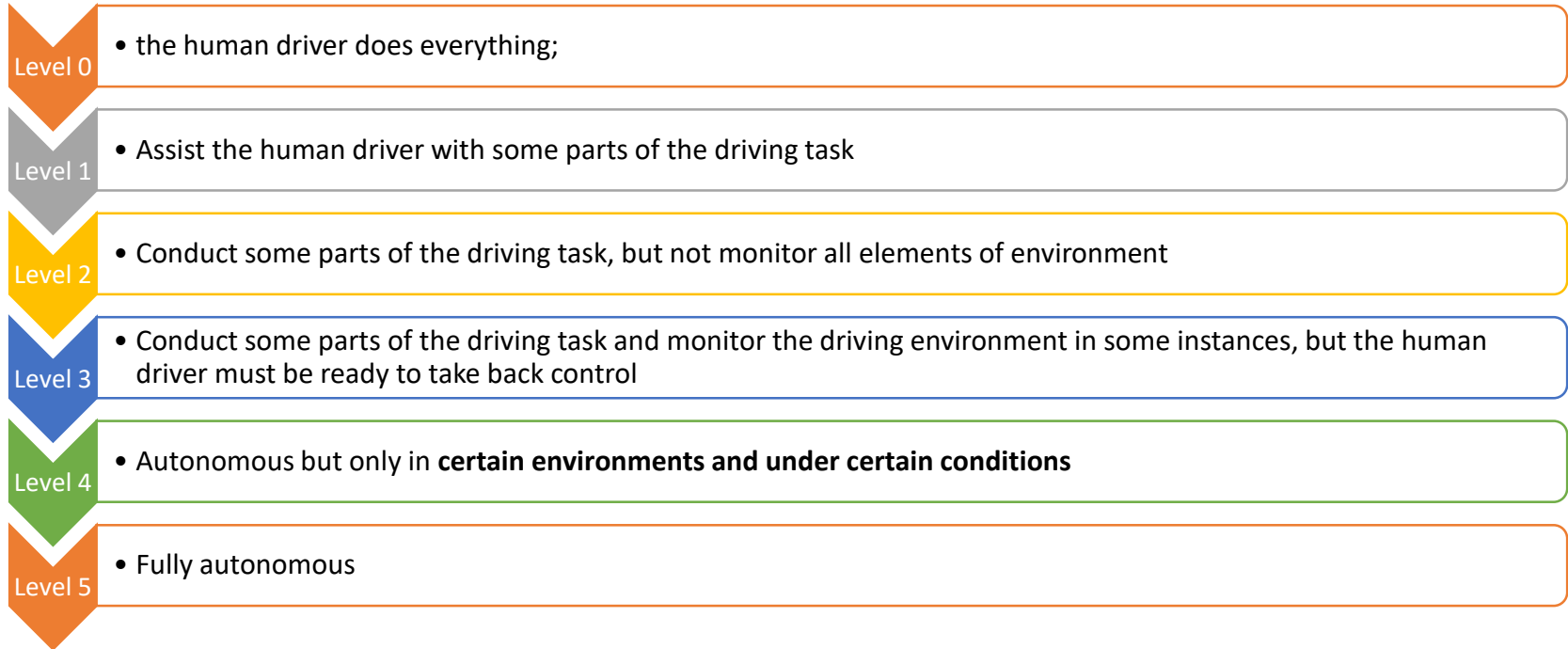
Gas

Diesel-electric hybrid

Gas-electric?

Hydrogen?

Levels of Automation



The Point of Automation



Cost

Efficiency

Safety

Timescale



Now and 2020's – driver aides (level 1)



Early 2020's – platooning (level 2)



Late 2020's – self driving on trunk roads (level 4)?



2030's + – self driving on all roads (level 5)?

Alternative Modes



“the Commission believes the pilots of “platooning” truck convoys on motorways and major A roads may open the way to radical improvements in the efficiency and capacity of major freight distribution by road in the future (see Chapter 5). This would free up rail capacity for enhanced commuter and inter-city passenger services. The Commission will report further on this in the future.”

Alternative Modes



Why is it
needed?

- Energy efficient
- Space efficient

What is
needed?

- Lower transfer costs
- Lower operating costs
- Increased service

Future Industry



- Clean, quiet, safe
- Larger?
- At night?
 - Automated handling
- New vehicles for same operators?
 - Role of the owner-driver?
- 'Mobility as a service'
 - Manufacturers as service providers?
 - Consolidation to few tech company vehicle operators?

UBER FREIGHT

Questions?