









H2 is an energy vector

Applications in industry, transport, building and generation.

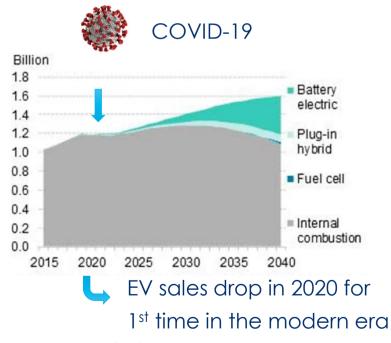


Fig. source: modified from BNEF, 2020

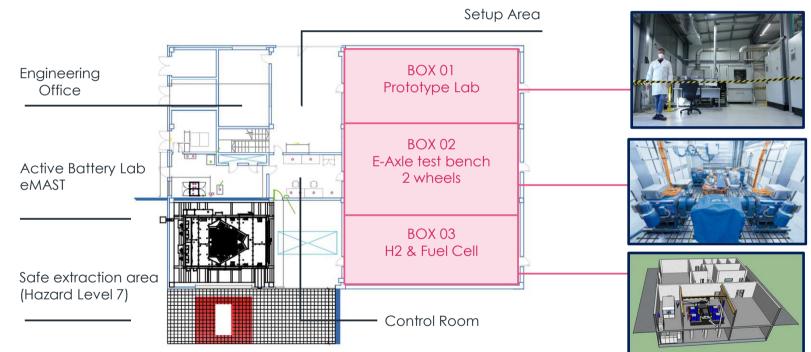
- Compared to BEV only a few car OEMs offer currently FCEV.
- Toyota, Hyundai Group and Honda with strong FCEV strategy.
- Stellantis has presented in 2021 plans for an FCEV commercial car.
- Tesla and German OEM's with strong position for BEV strategy.
- Some startups active, uncertainty with Chinese players position.
- Focus of adoption shifting to commercial and industrial vehicles, especially heavy and long haul.



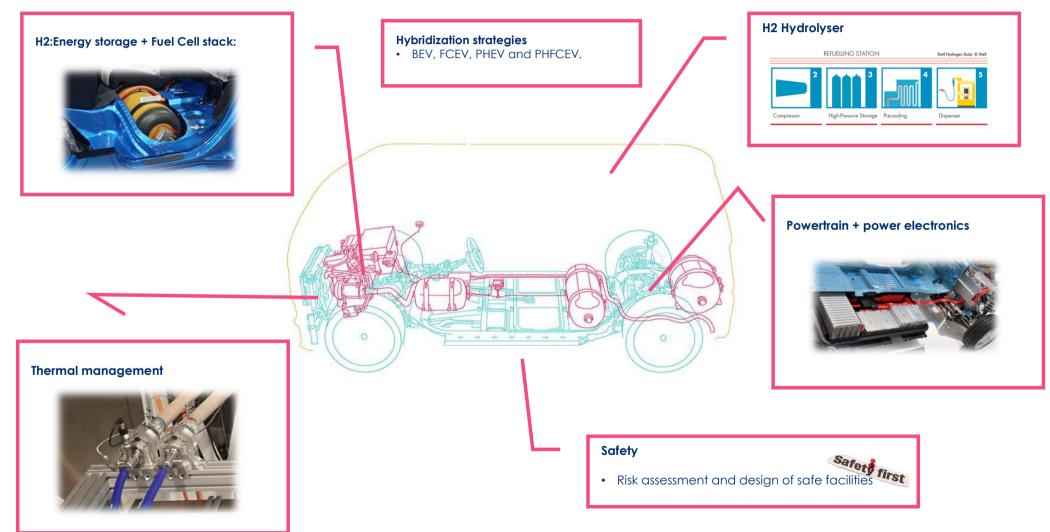














- FCEVs show big advantages in usability but still require significant technical development in order to reduce the FC cost and improve the efficiency.
- Regulation will play a major role in order to increase penetration of this technology in the market, as well as the improvement in the number of recharge stations.
- Usability is better than BEV (charging time, weight, performance in cold temperatures, scale in power mileage).



USE OF NON-CRITICALS MATERIALS



CIRCULAR ECONOMY



RECICLABILITY











INFRAESTRUCTURES

EFFICIENCY

SAFETY

