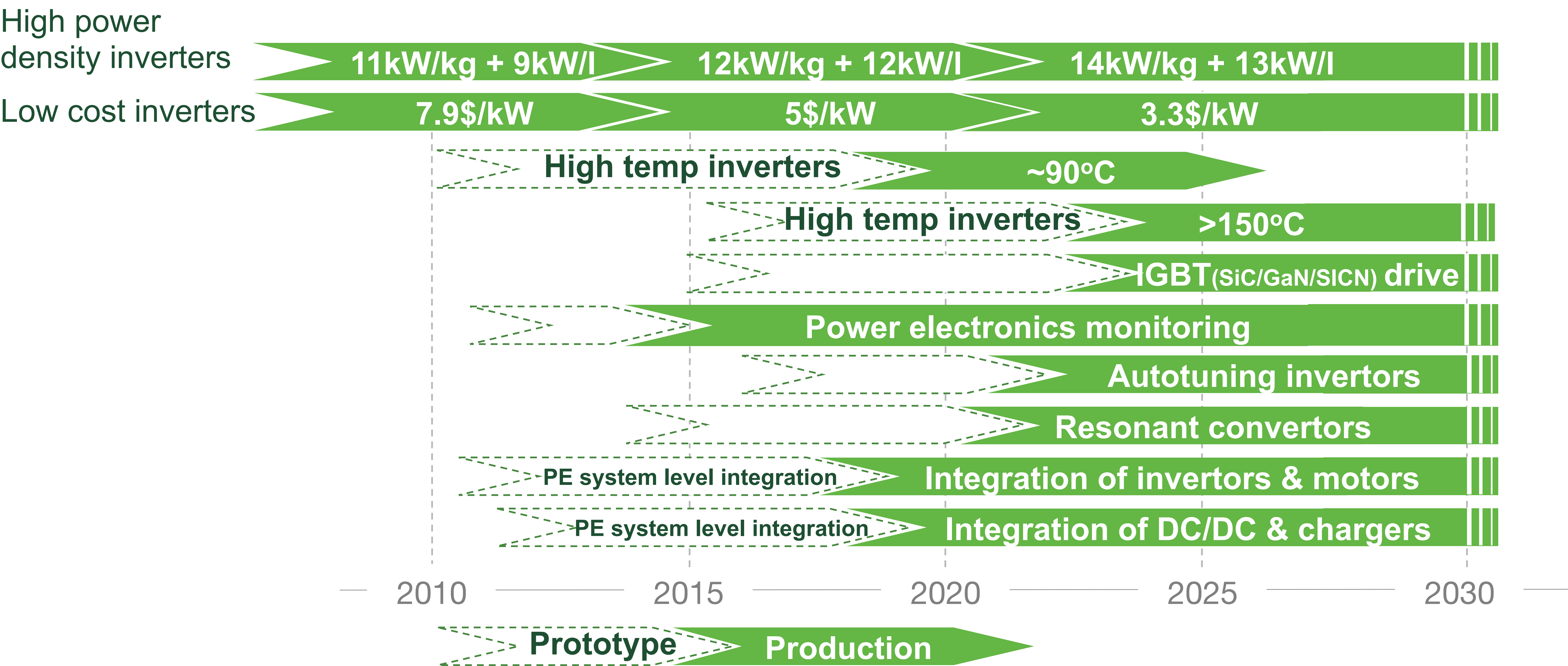
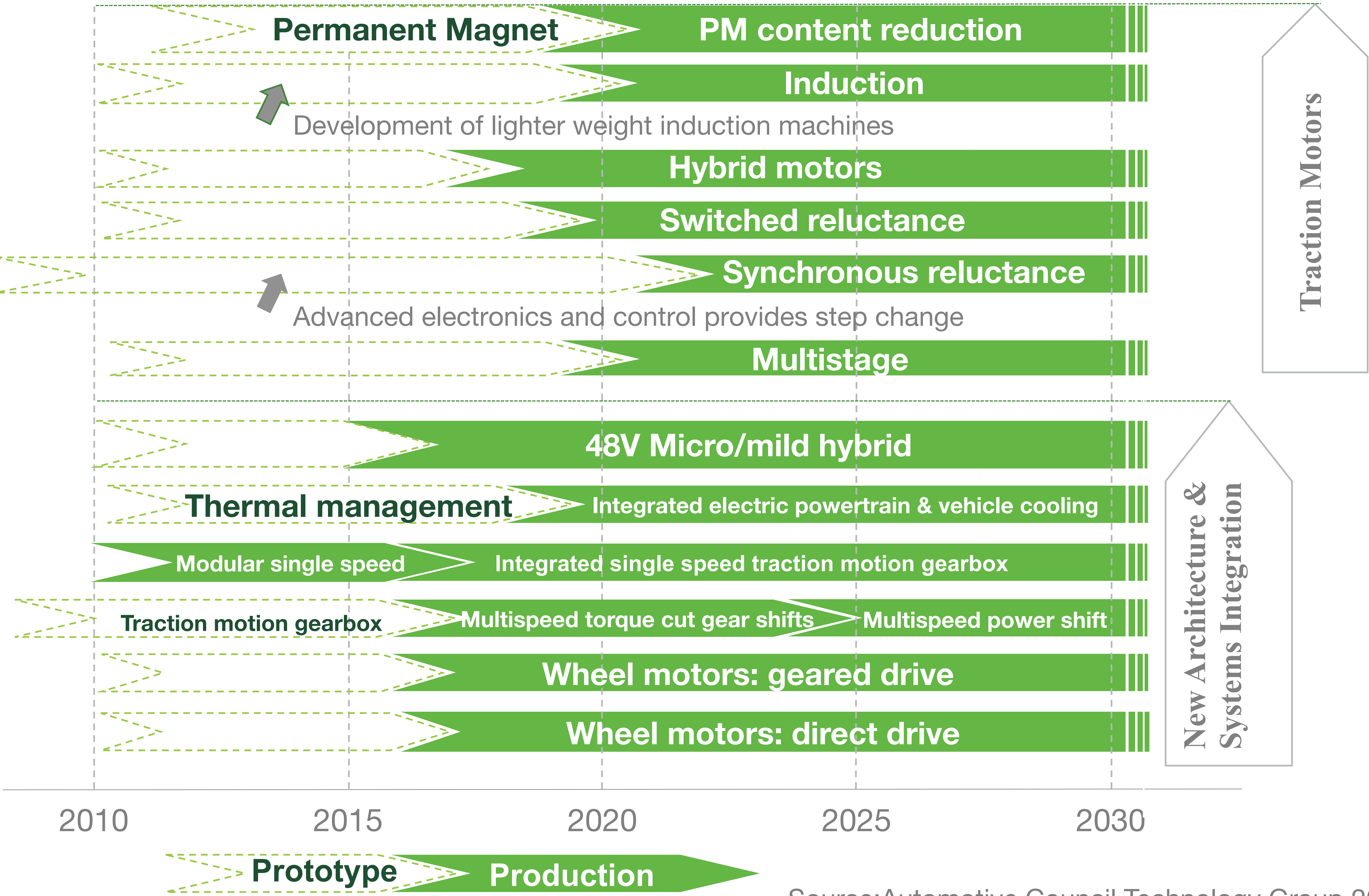


# Power electronics roadmap



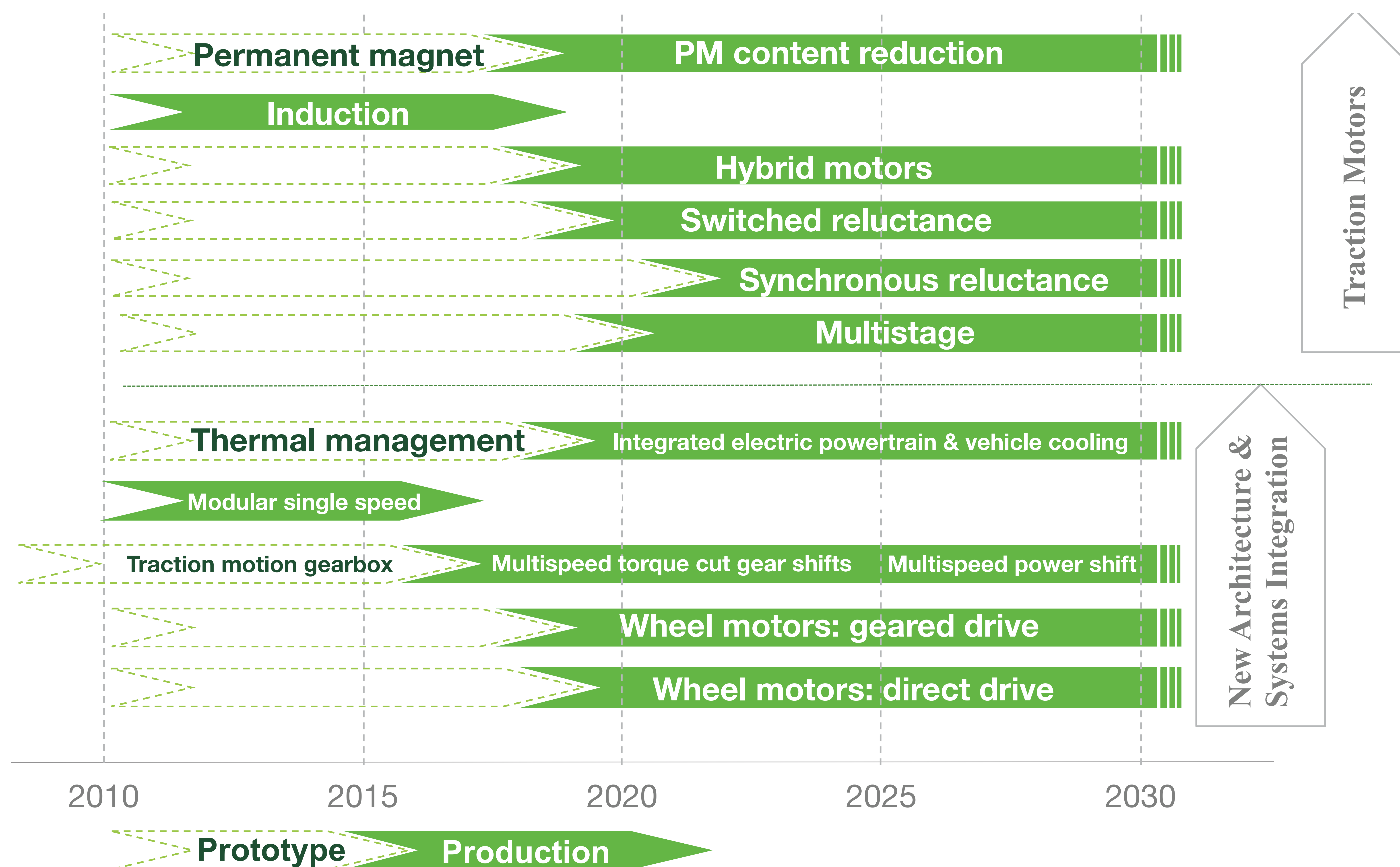
Source:Automotive Council Technology Group 2013

# Traction motors & generators roadmap (<40kW)



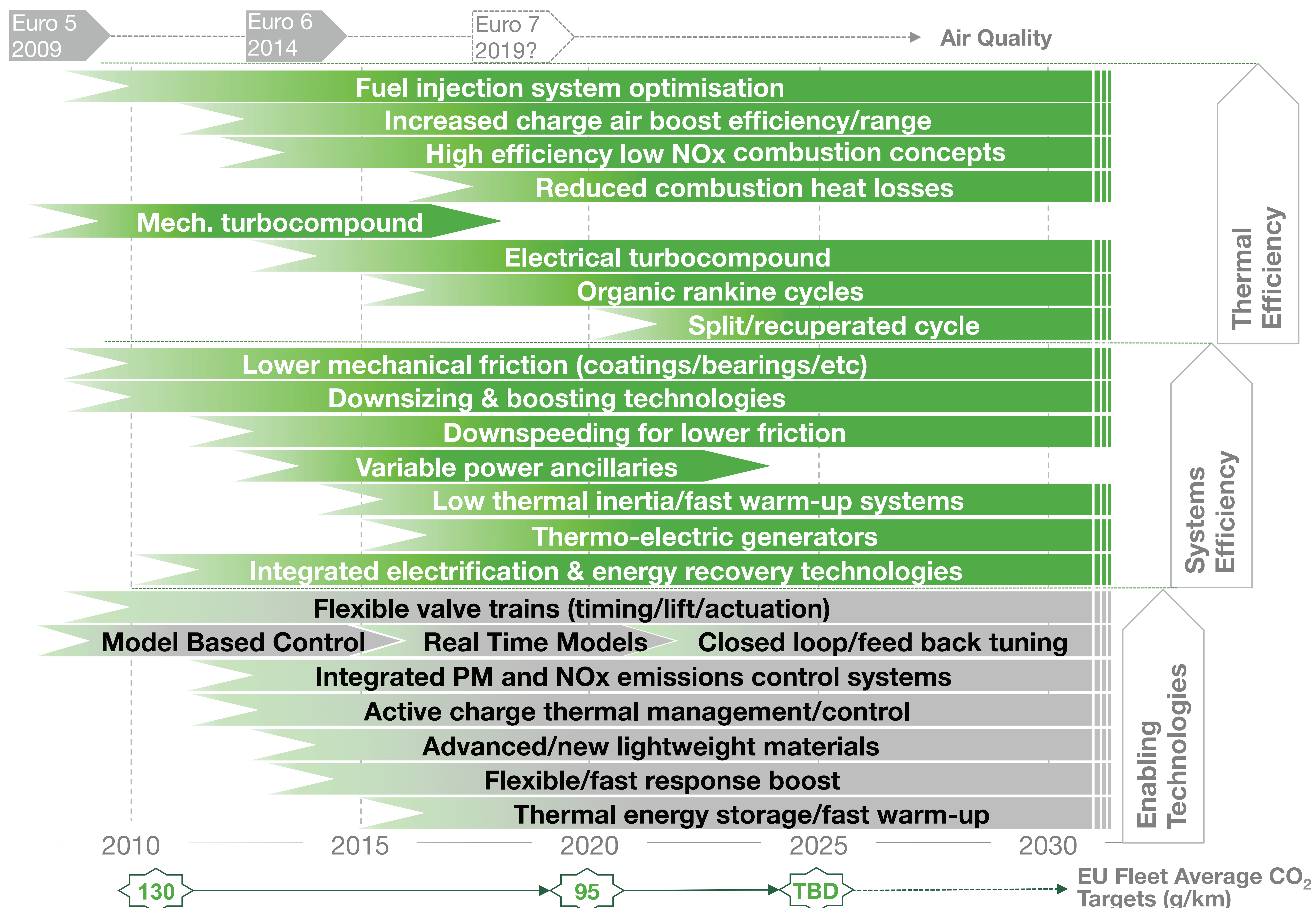


# Traction motor & generator roadmap (100kW +)



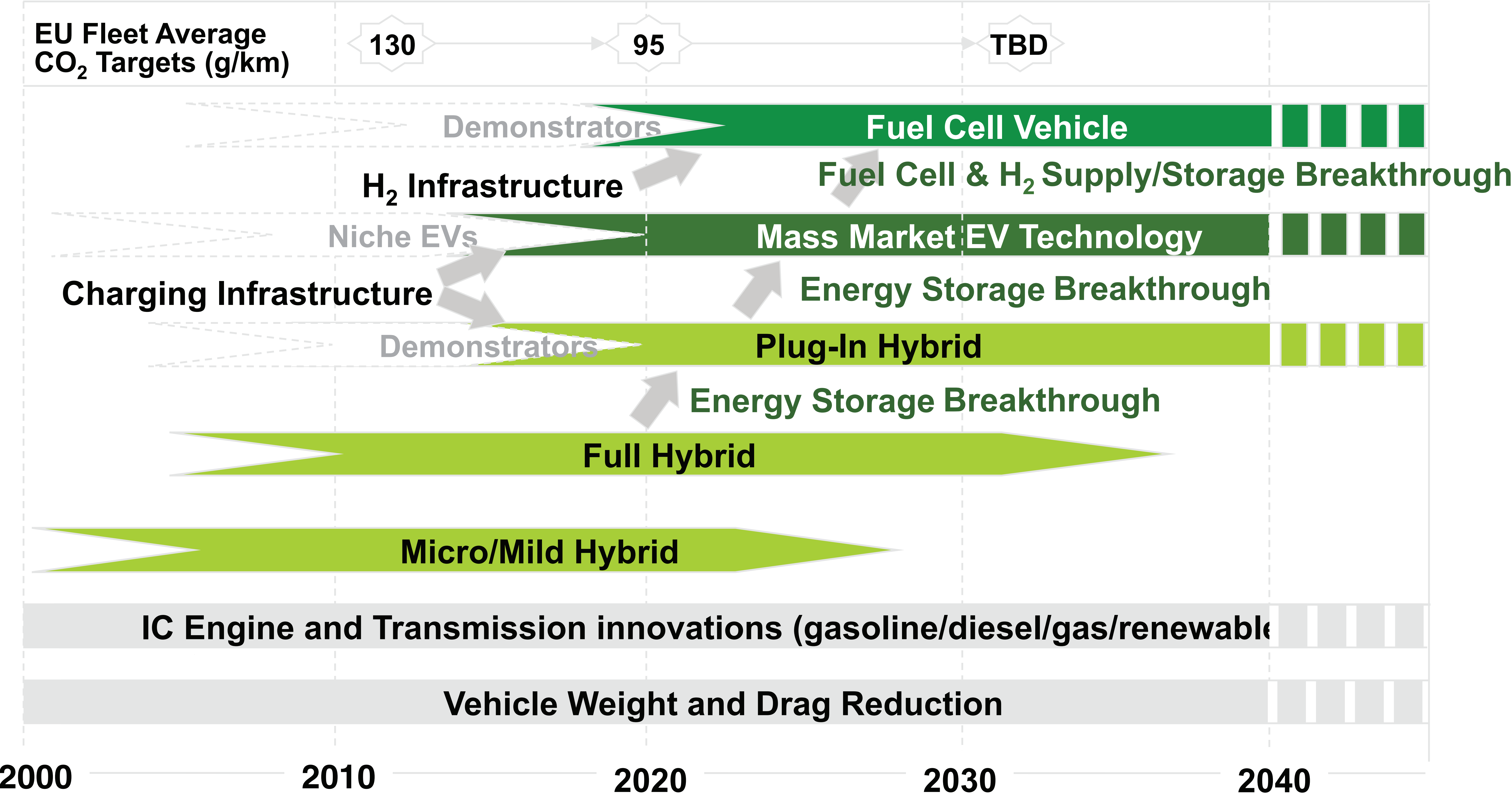
Source: Automotive Council Technology Group 2013

# Power train (ICE) technology roadmap



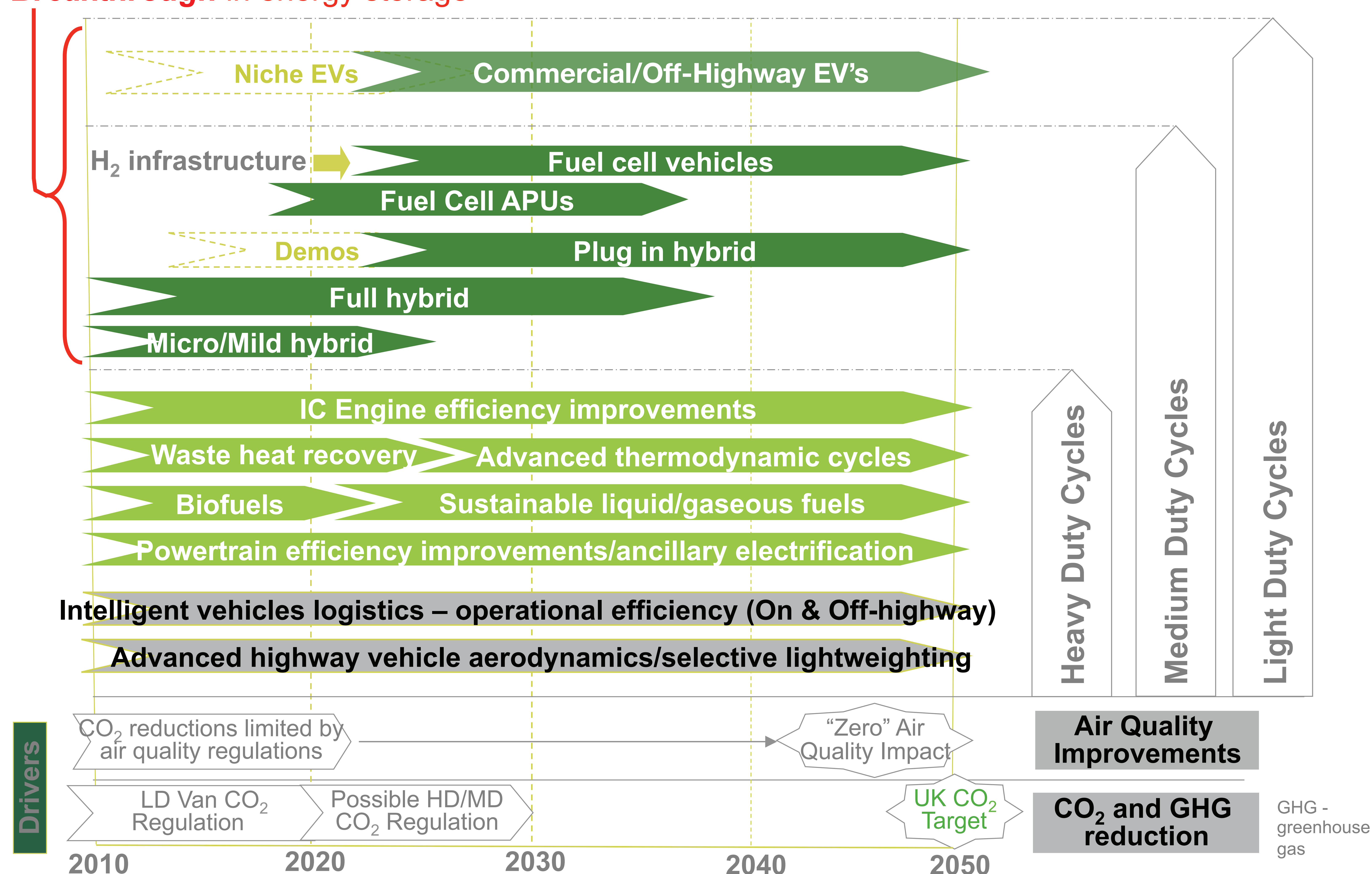


# Passenger car low carbon technology roadmap



# Commercial and off-road technology roadmap

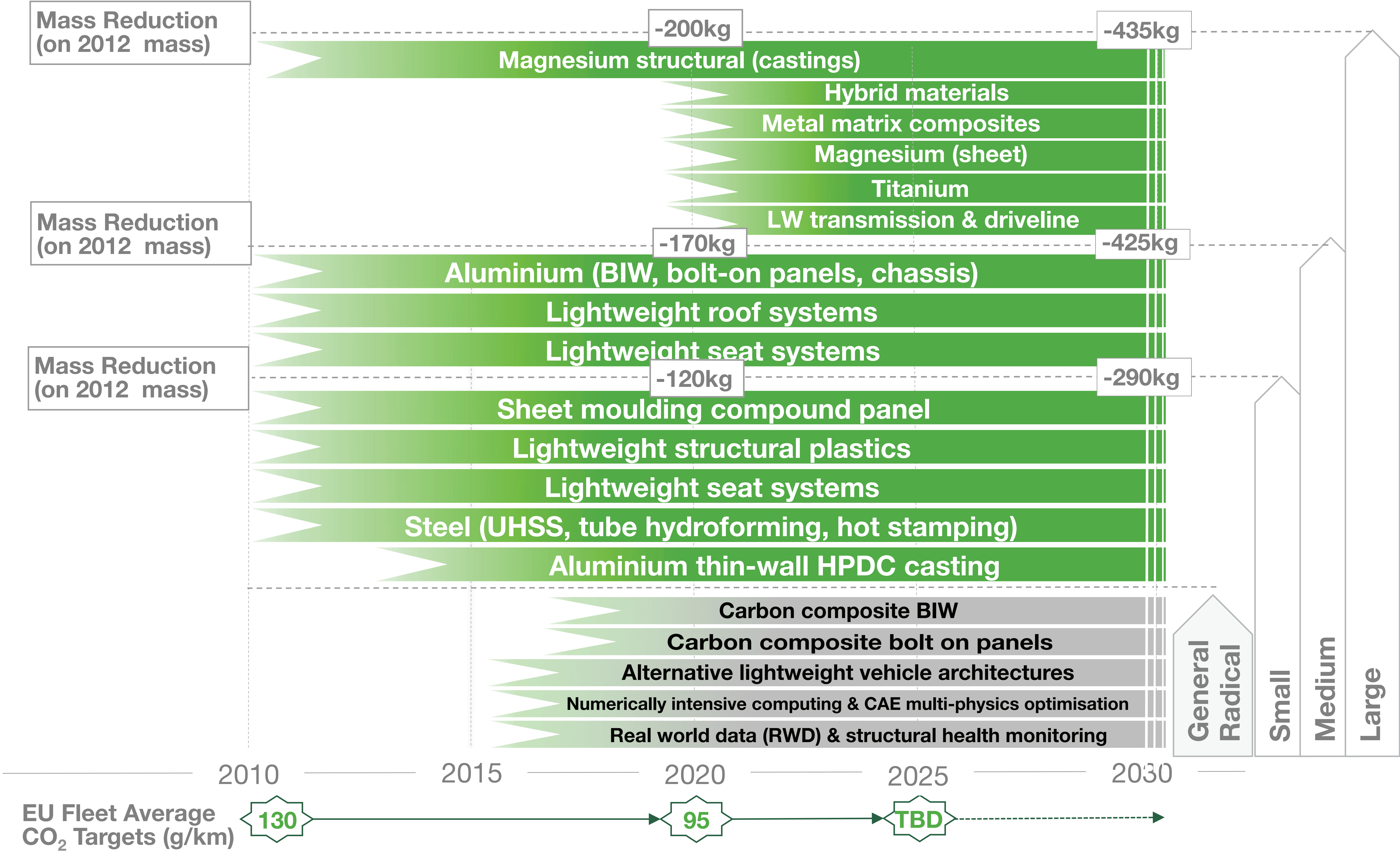
## Breakthrough in energy storage



Source: Automotive Council Technology Group 2012

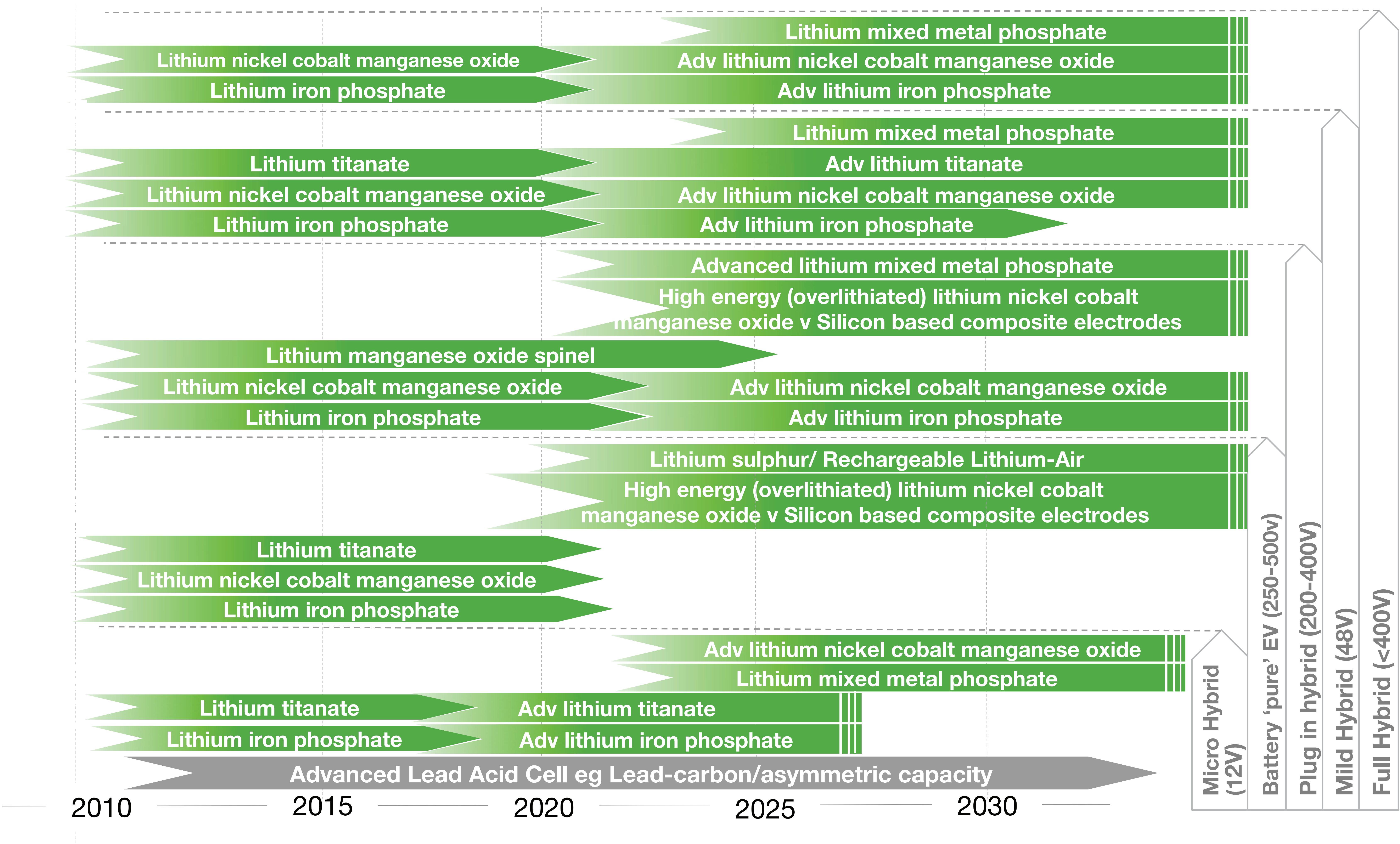


# Lightweight vehicle and power train roadmap



Source:Automotive Council Technology Group 2013

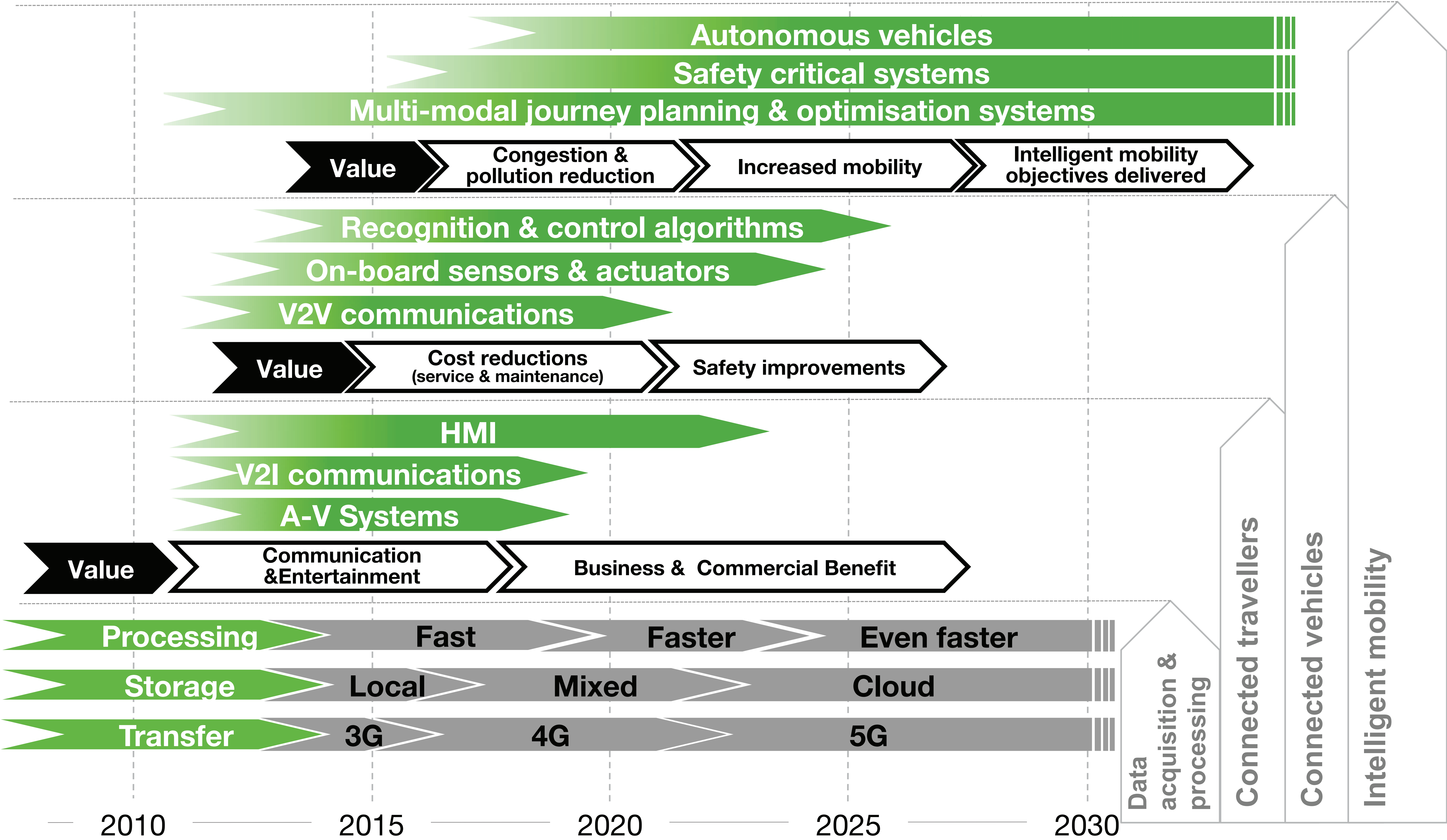
# Energy storage Echem Tech roadmap



Source :Automotive Council Technology Group 2013



# Intelligent mobility technology roadmap



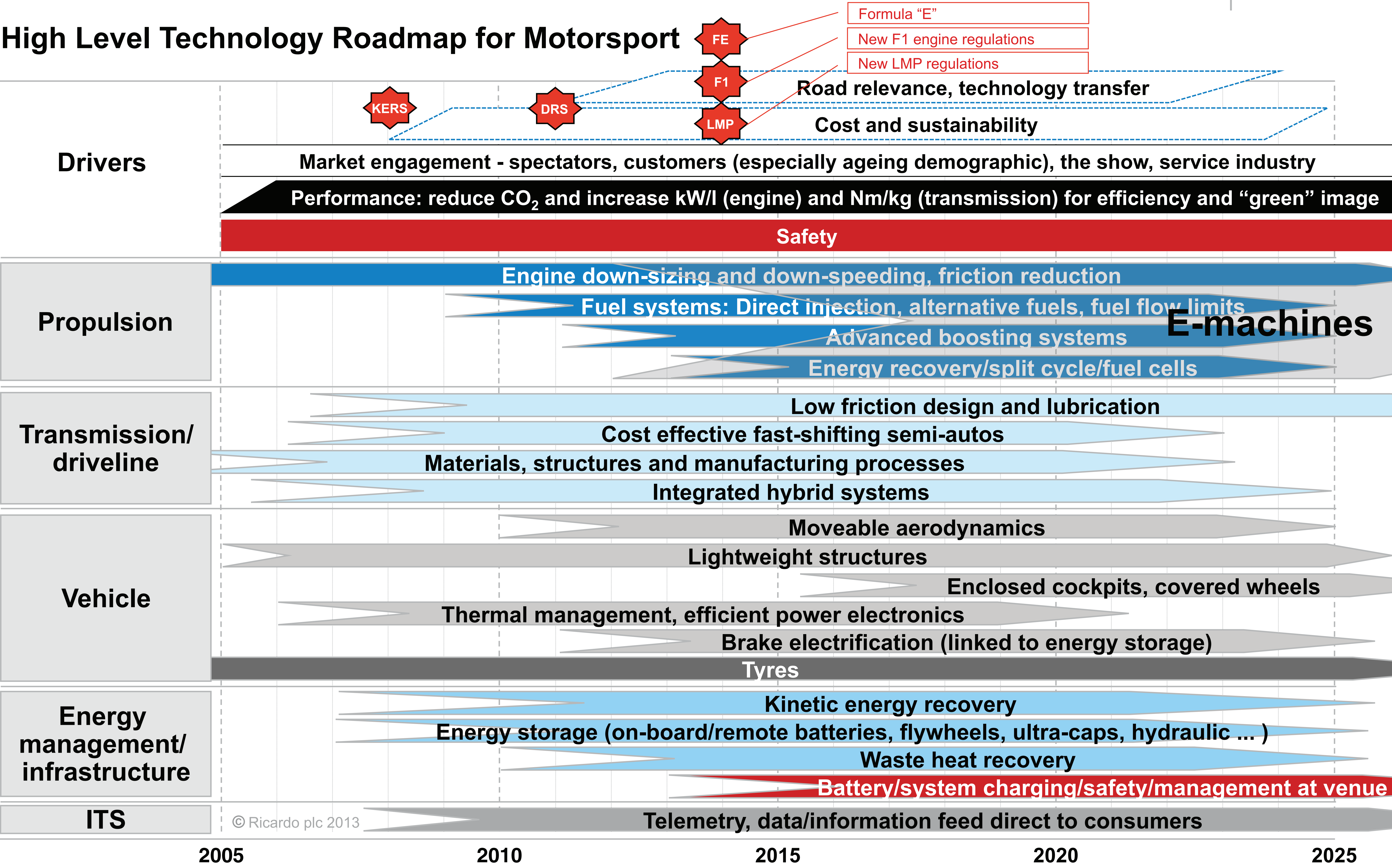
Source: Automotive Council Technology Group 2013



# The motorsport technology roadmap focuses on chasing *integrated* performance efficiently with cost-effective CO<sub>2</sub> reduction



## High Level Technology Roadmap for Motorsport



Source: Ricardo analysis, interviews with Williams F1, Force India, Ford Racing, Alcon, Lola and Dallara



# Bus technology roadmap

Breakthrough in energy storage

