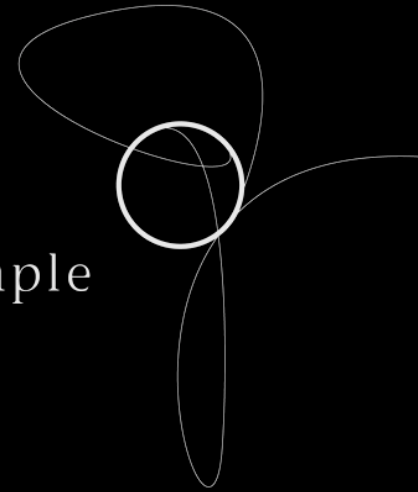


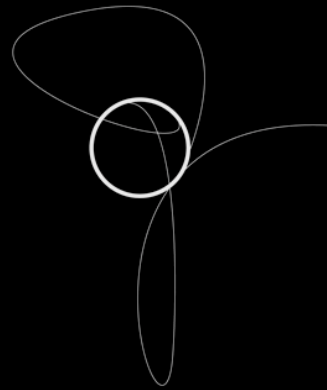
riversimple



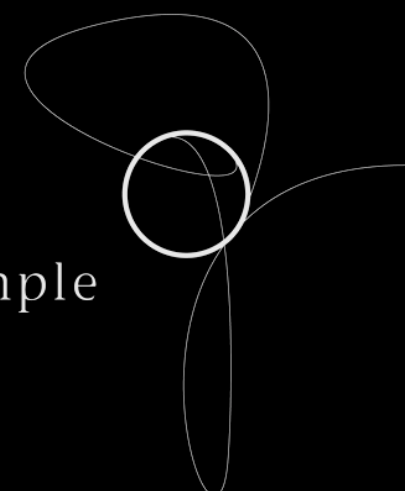
Hydrogen Fuel Cell Vehicles: Still 10 years away?

LCVP conference, 8th June 2009

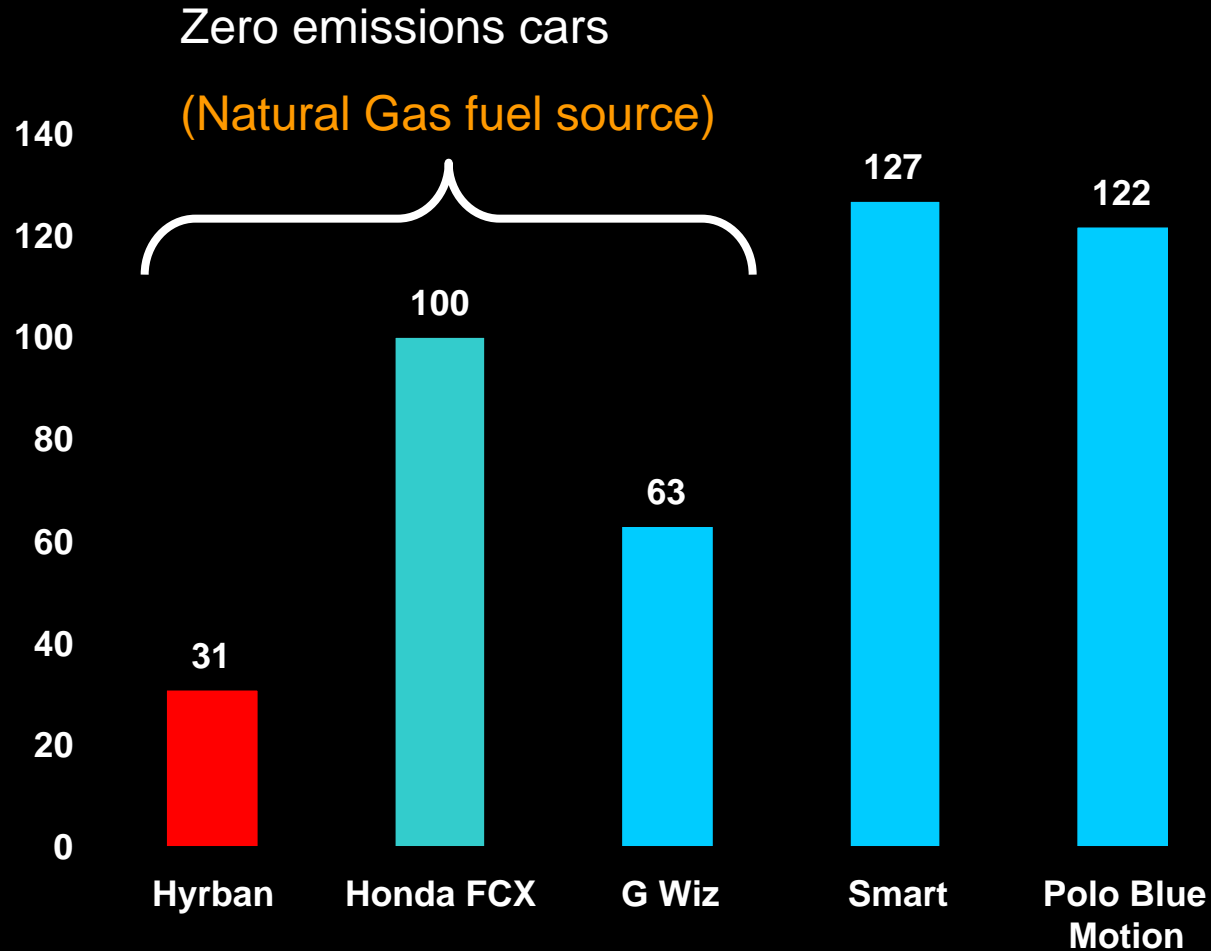
Hugo Spowers
Riversimple LLP

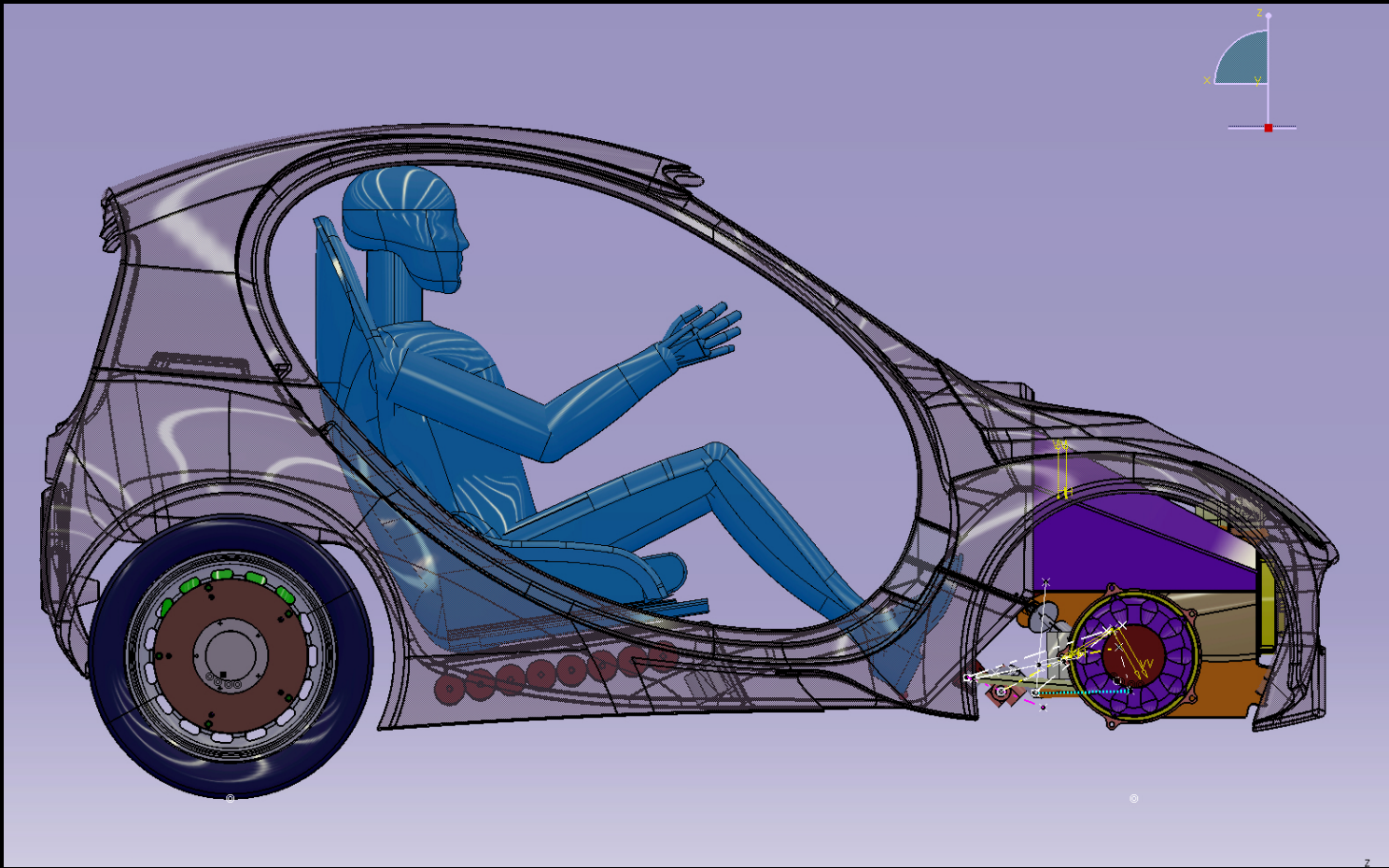
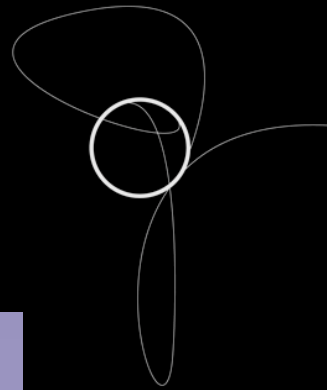


Well to wheel CO2 per km

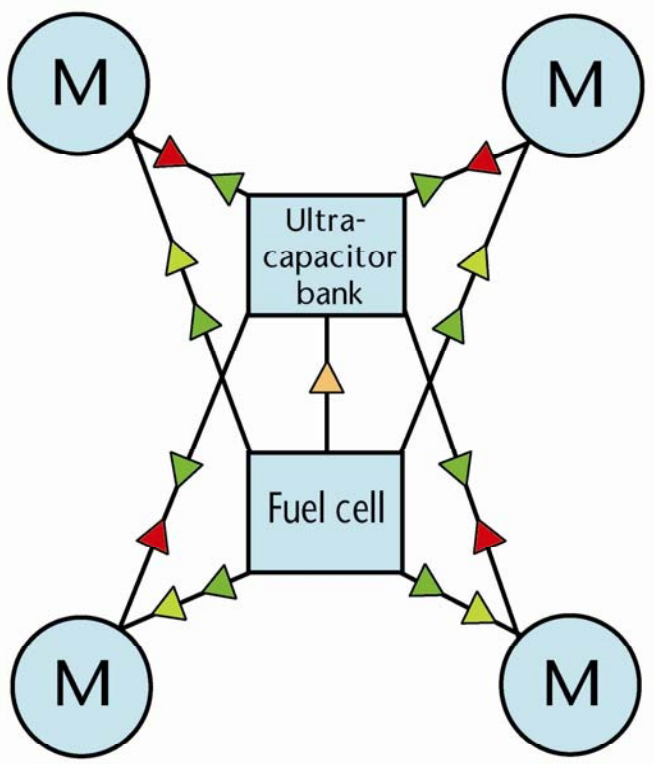
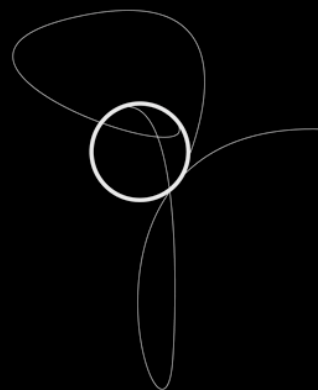


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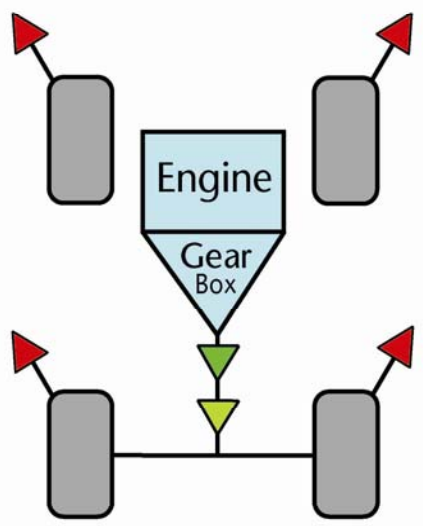




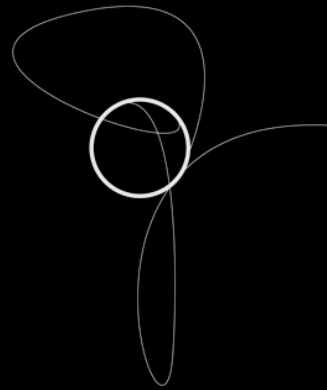


The network electric powertrain

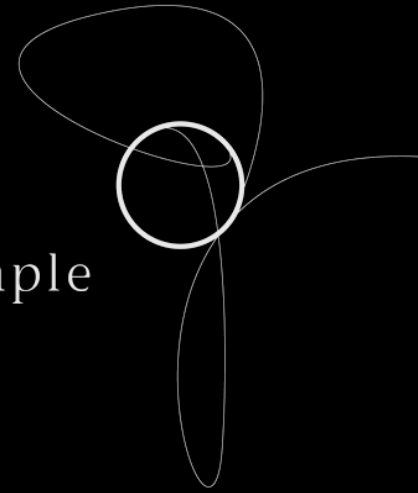
-  Motor
-  Energy flow when braking
-  Energy flow when cruising
-  Energy flow when accelerating
-  Energy flow when recharging ultra-capacitors



A conventional linear powertrain



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The conservation of natural resources is the fundamental problem. Unless we solve that problem it will avail us little to solve all others.

Theodore Roosevelt, 1907