

A Greener Evolution in Combustion

Current Internal Combustion Engine Limitations

Gasoline

Lean combustion difficult

Diesel

- More expensive to build
- Expensive exhaust after-treatment

Fluctuating fuel costs

CO₂ Legislation Targets

• 2012 fleet 130 g/km, 2020 fleet 95g/km

Brand value association with CO₂

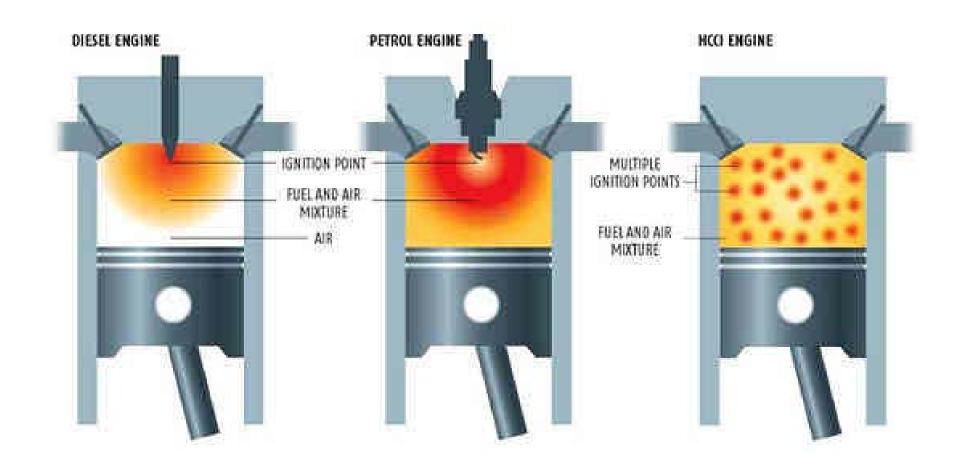
Limited R&D budgets



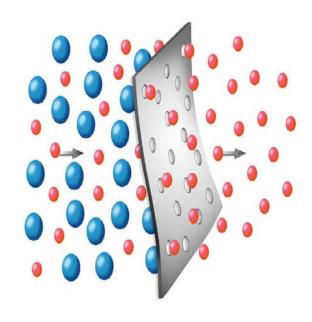
Fragmented solutions



The Solution



The Innovation



Milestones and Achievements



Technology principles developed and researched.



Independent testing, validation, and concept development.











The Team

David Tonery, Founder and Inventor

Mechanical Engineer Enterprise Fellow of the Royal Society of Edinburgh

John Finlay Chief Operations Officer

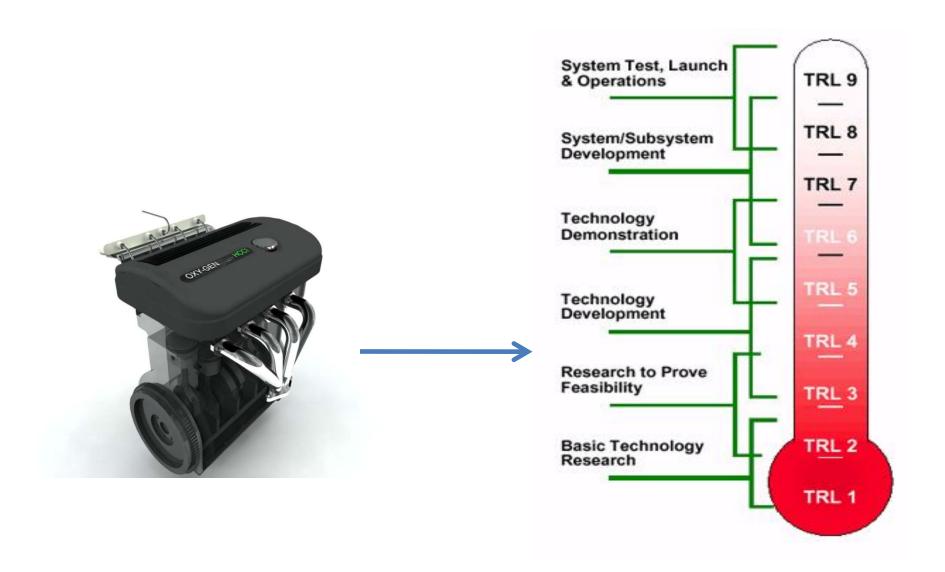
Former roles
Managing Director of Kestrel Marine Group
General Manager of Ortec UK
Chairman of Focus Development Laboratories





Tier 1

What next?



How do we exploit it?

Oxy-Gen and Tier 1

Co-Development

Manufacture and licence



Off-Highway Applications





Original Equipment Manufacturer



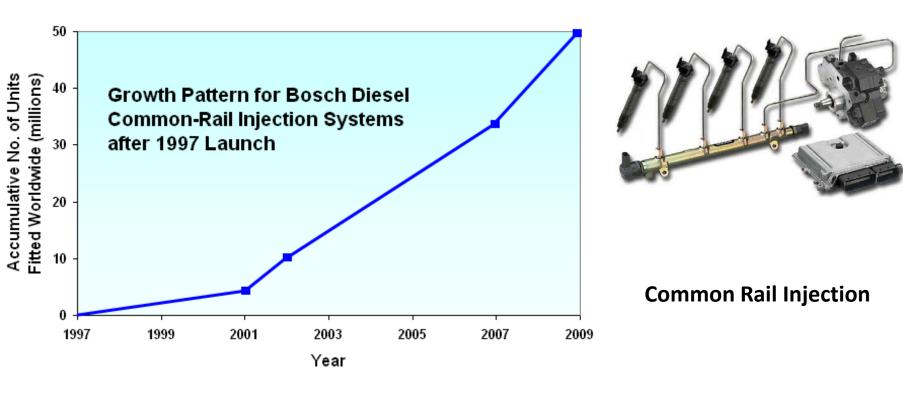


Auto

HGV



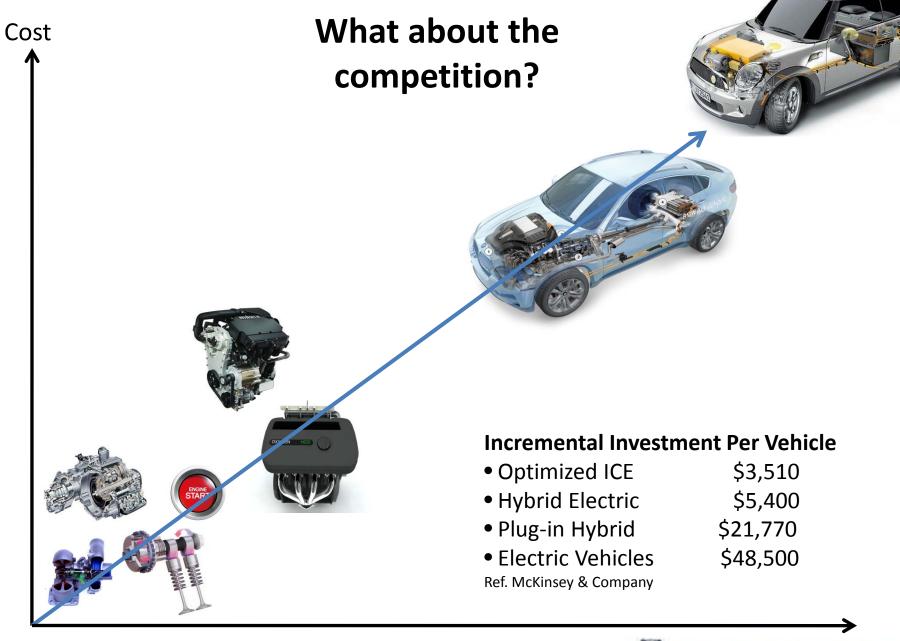
How many can we sell and for how long?





Ford Ecoboost, 100,000 units on adoption 1.3m units globally within 3 years.





What does the industry think?



"Once we realise HCCI, there's a big chance we'll just have one powertrain". Honda Chief Diesel Engineer



GM Rescue Plan 2009, Technology Strategy, long term post 2015 objective one internal combustion engine, HCCI.



Key Objective

Development of HCCI Demonstrator

- Engage R&D partnerships with OEM's or Tier 1's
- Secure equity investment
- Leverage EU development funding
- Strengthen the technical and management team











