Souped up Battery propses to slay the gas guzzlers

(= basic idea)

batteries can be an alternative to gas (petrol-driven vehicles)

BUT: until now: electric cars have ① a smaller range
② need to be maintained more often

IN ADDITION: engines are becoming more efficient (eg by competitions)

HOWEVER, in the long run, Lithium Ion Batteries will be used instead of petrol

BASICALLY, there are three types of batteries

they will be the future

Lithium Ion Batteries
- short lifespan
- can explode
→ still have to be improved

+ are more powerful than the others
- range can be improved
- are expensive

lead acid Batteries
heavy & bulky
- small range

NiMH
used by Prius & Honda
+ are safer
+ costs are known

cathode wears out quickly (gain & loss of Lithium Ion) + impurities

BUT: A123: has developed a way to make the cathode last longer
(Lithium Iron phosphate → birdcage like nanostructure → no wear & tear)
→ innovation is used by Hyundai for the Prius + Google wants to use it, too!!!

AND! University of Columbus is improving the anode (cobalt oxide ↑capacity ↑power)
AND! Stanford University: uses silicon wires for anode (but they need cathode

Conclusion → Every innovation is important - in the end it is all about diversity