Introduction to electric vehicle mobility business

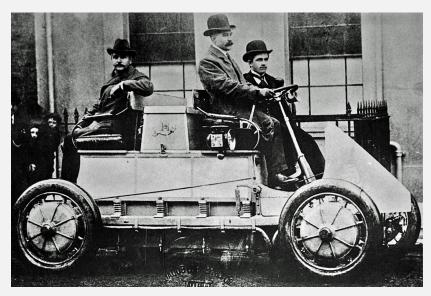
Frank G. Rieck MSc, Applied Research Professor, Future Mobility

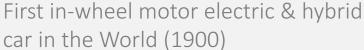


ELECTRICITY MAY BE THE DRIVER. One day your car may speed along an electronic devices embedded in the road. Highways will be made safe-

Source: http://www.germannotes.com/archive/article.php?cPath=49_ Lohner & Co

Ludwig Lohner and Ferdinand Porsche (1858 & 1875)

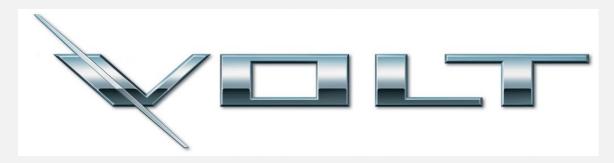








Business essential 1: The battery - Alessandro Volta (1745)





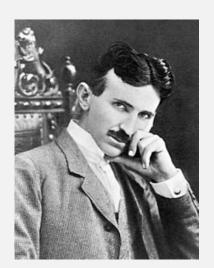


Business essential 2: The Motor - Nicola Tesla (1856)

"Es schmerzt mich es zu sagen, aber **Tesla** hat bisher strategisch leider alles richtig gemacht. Wer einmal elektrisch gefahren ist, der ist für alle Zeiten für den Verbrenner verloren. Wir brauchen geile Autos – und eine nahtlose Infrastruktur!"

Dr. Stefan Niemand, Leiter Modellreihe Battery Electric Vehicles, Audi auf dem 18. Technischen Kongress des Verbandes der Automobilindustrie (VDA) in Ludwigsburg 2016







Nicola prototype (2016) is coming



2018 will be the year of the introduction of electric semi's for the long haul In the EU with respect to the driving time and rest period regulation No 561/2006

Source: Tech

The new king of the road



Source : Tesla

The first operational long haul range extender e-truck

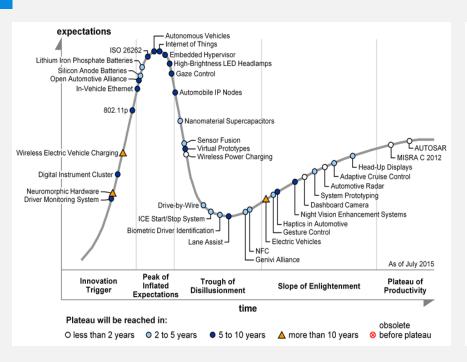


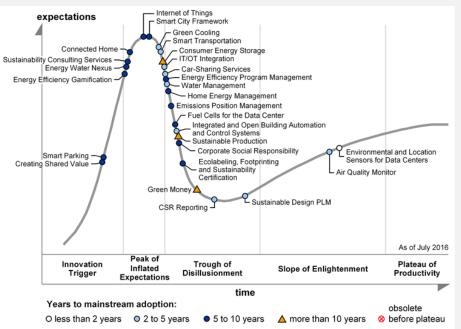
Will Automotive be the future of mobility?

- Based on the 'traditional' values of individual freedom and maximum flexibility
- Major positive disruptive technologies will consolidate the automobile to be the prefered choice for mobility of persons and goods
 - 1. Electrification : Zero emission and Zero energy
 - 2. Automation : Zero congestion and Zero accidents
 - 3. Connectivity (IOT) : Zero empty and cost

Source: Gartner Hype Cycle Automotive 2015

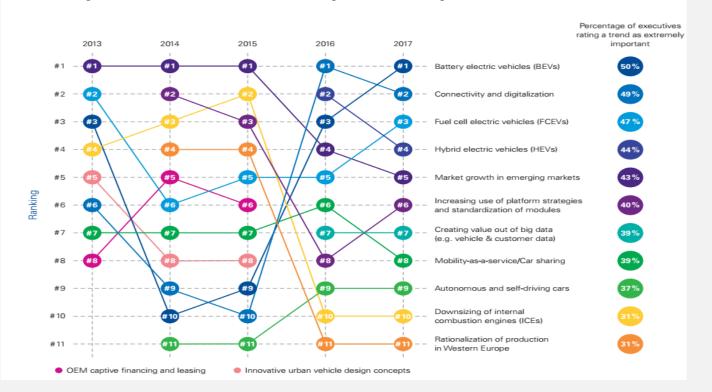
Gartner Hype Cycles show that EV's are leading the innovation





Global Automotive Executive Survey KPMG 2017

Regulatory pressure pushes awareness for electrification: Battery electric vehicles are this year's #1 key trend.



Thank you!