BUSINESS MODELS FOR CLEAN CARS Patrick Pélata, Renault Chief Operating Officer



- Different profiles for clean cars
- Potential customers for the electric vehicle
- Breakthrough for business model for the electric vehicle
- Role of governments in the development of the electric vehicle
- Market size for the electric vehicle



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RENAULT'S ANSWERS TO 2020 EUROPEAN TARGETS

Automotive CO₂ emissions regulation 443/2009

CAFE = 95 g/km

European Directive on Renewable Energy 2009/28/CE

20 % Renewables in energy mix

&

European Directive on Fuel Quality 2009/30/CE

10 % Renewable fuels in transport

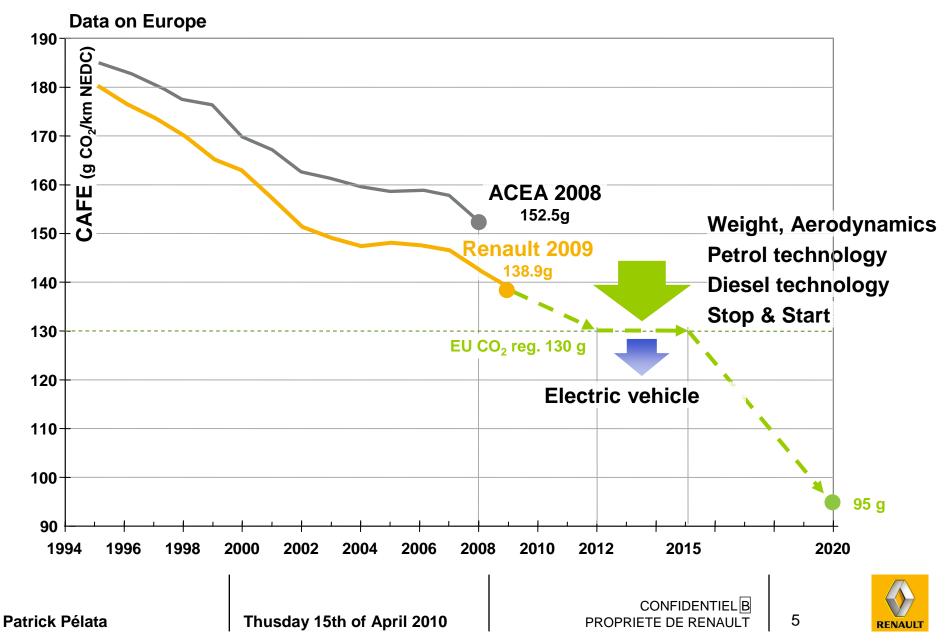


RENAULT's answers:

- Biofuel compatible vehicles
- CO2 efficient internal combustion engines
- Electric Vehicles

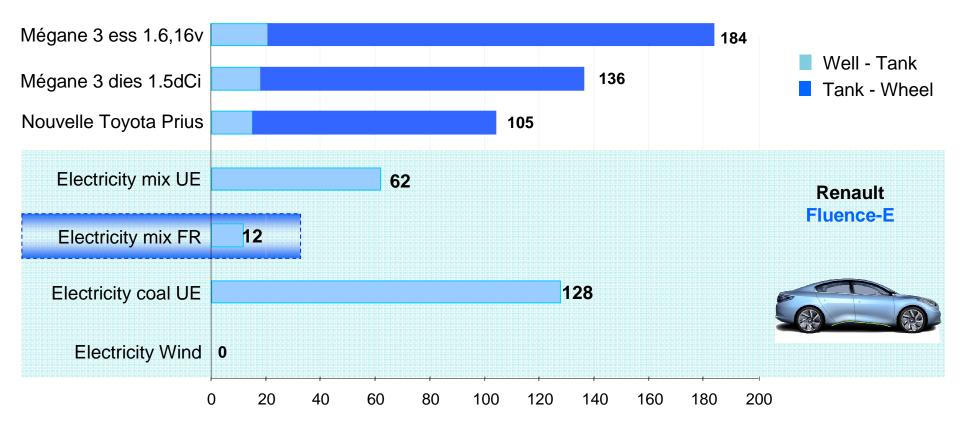


RENAULT TARGETS TO BECOME LEADER IN CO₂ EMISSIONS



THE ELECTRIC VEHICLE: THE ONLY REAL BREAKTHROUGH IN CO₂ EMISSIONS



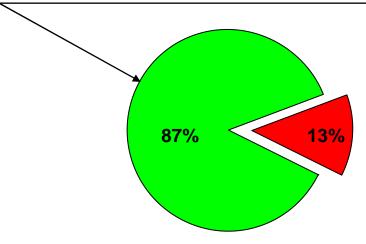




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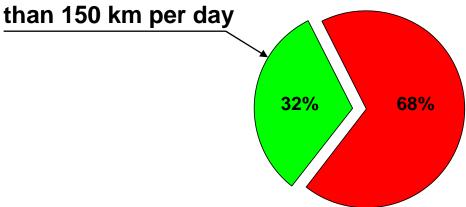
WHICH CUSTOMERS? In Europe

87% of customers travel less than 60 km per day





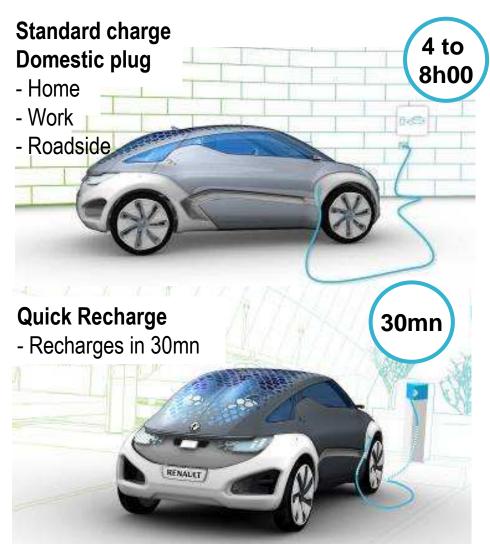
On B segment, 32% of customers never travel more







THE BATTERY RECHARGE INFRASTRUCTURE



Quick Drop Station

- A new battery ≈ 3mn





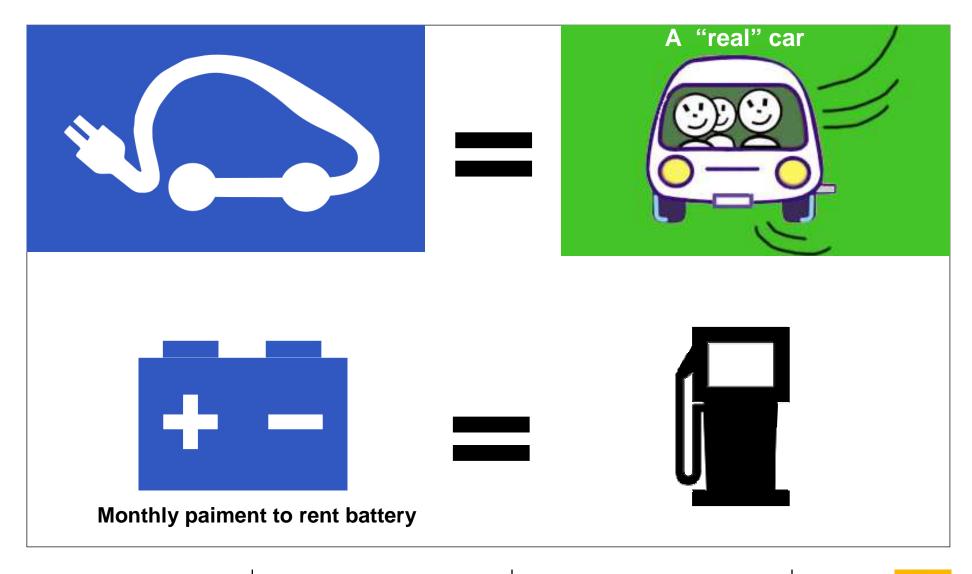
Intelligent navigation





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BUSINESS MODEL PRINCIPLES FOR THE ELECTRIC VEHICLE

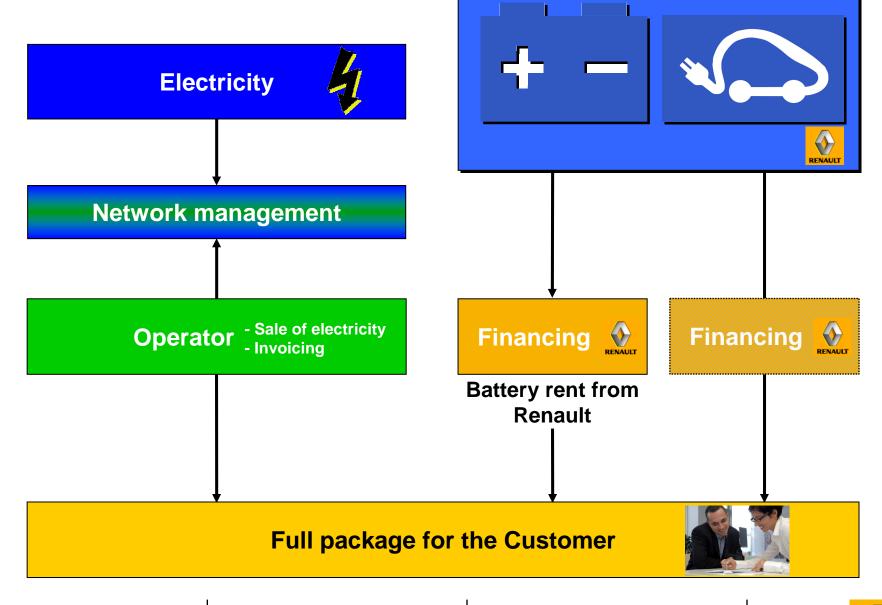




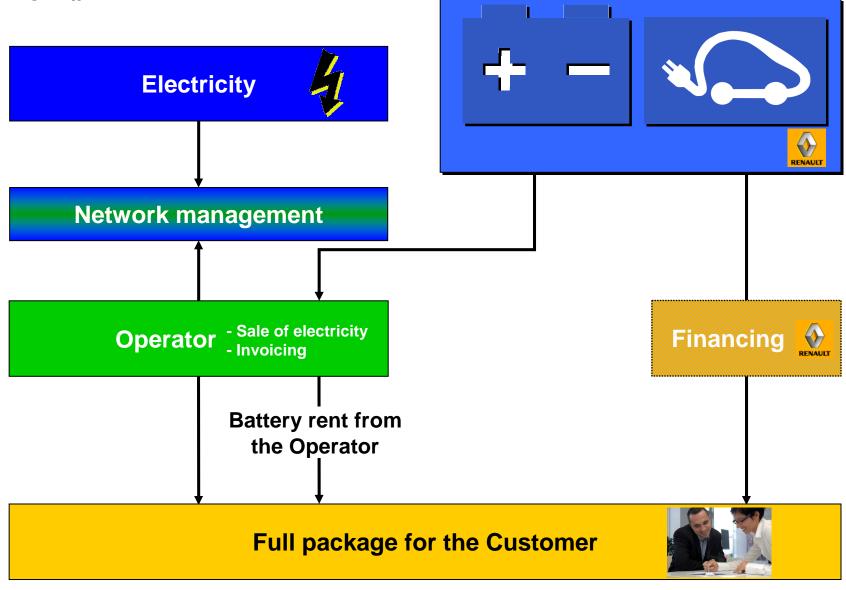
REAL CARS, A WHOLE RANGE



OPTION #1



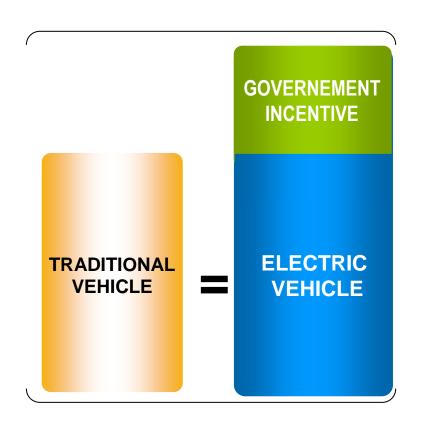
OPTION #2

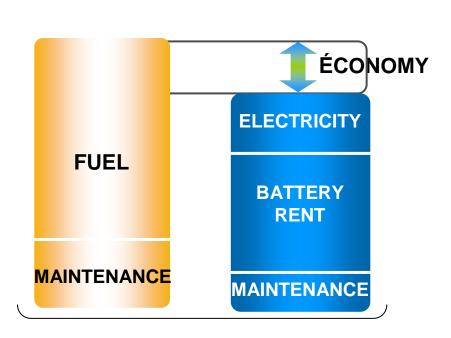


A RATIONAL CHOICE FOR THE CUSTOMER

FOR PURCHASE

FOR USE





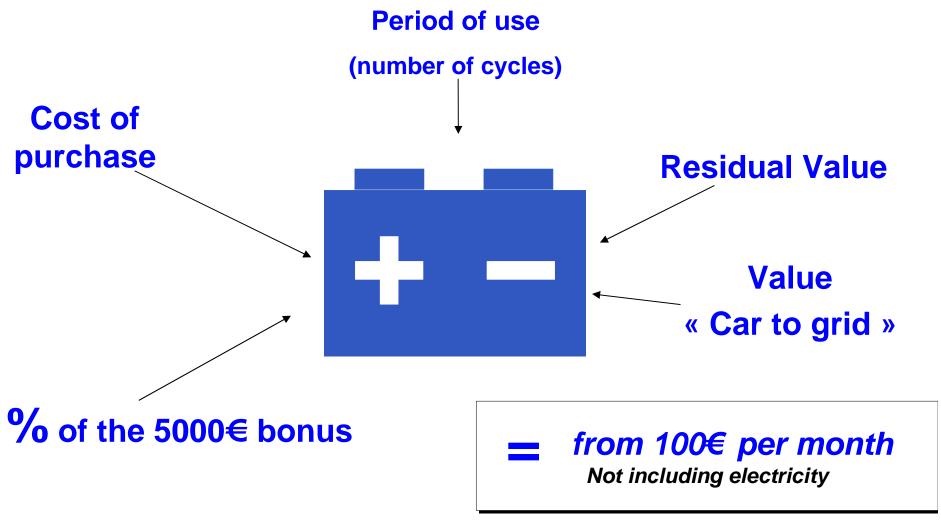
A RATIONAL CHOICE FOR THE CUSTOMER

FOR PURCHASE

GOVERNEMENT INCENTIVE ÉCONOMY ELECTRICITY FUEL **ELECTRIC** TRADITIONAL **BATTERY VEHICLE VEHICLE RENT** MAINTENANCE MAINTENANCE

FOR USE

BATTERY RENT PACKAGE



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THE ELECTRIC VEHICLE ANSWERS ENERGY AND ENVIRONMENTAL QUESTIONS CONCERNING TRANSPORT

- ✓ Reduction of the oil bill and reduction of CO₂ emissions offer collective benefits (PIB, Country, Planet)
- ✓ Key point to drive changes: the CO₂ value



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WHICH MARKET SIZE?

- Oil price
- Development of regulations and incentives on the reduction of emissions
- Reduction of battery costs and Electric vehicle technology
- ✓ Roll-out of the recharge network, including the « smart grid »
- ✓ Change in motorists attitudes

Potential annual market: 10% of market share in 2020

2016 3M of EV 2020 6M of EV

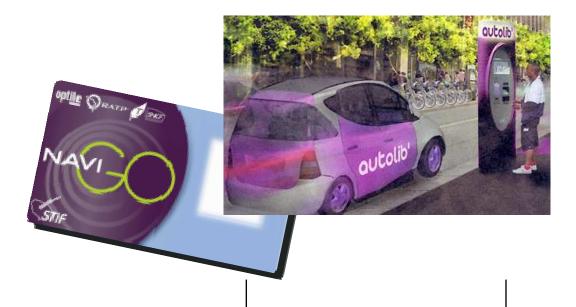
ELECTRIC VEHICLE MAY SPARK OFF NEW OR RENEWED MOBILITY SOLUTIONS

Car-sharing











CONFIDENTIELB PROPRIETE DE RENAULT



