

### **GILLES NORMAND**

SENIOR VICE PRESIDENT, ELECTRIC VEHICLE



## **ENERGETIC & ENVIRONMENTAL STAKES**



Energy
Reduce oil dependency



Health "Airpocalypse"

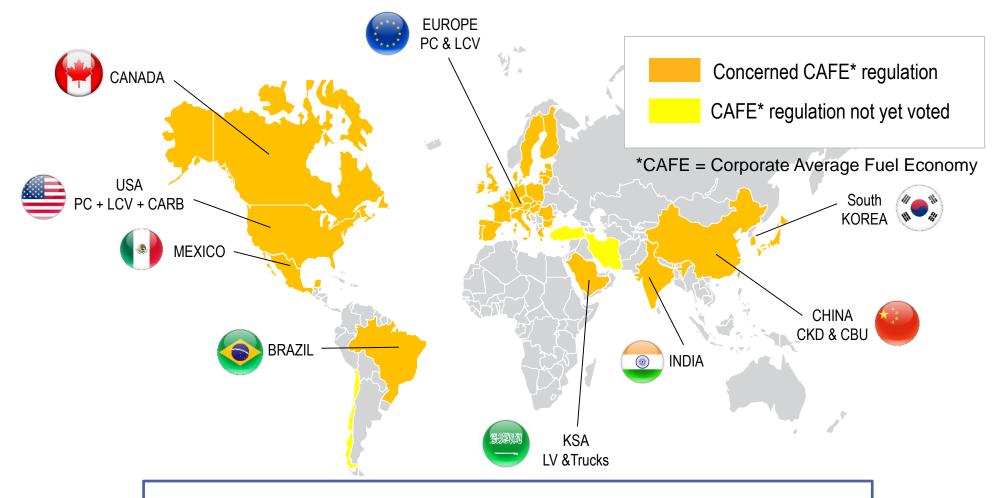


Climat

PARIS 2015

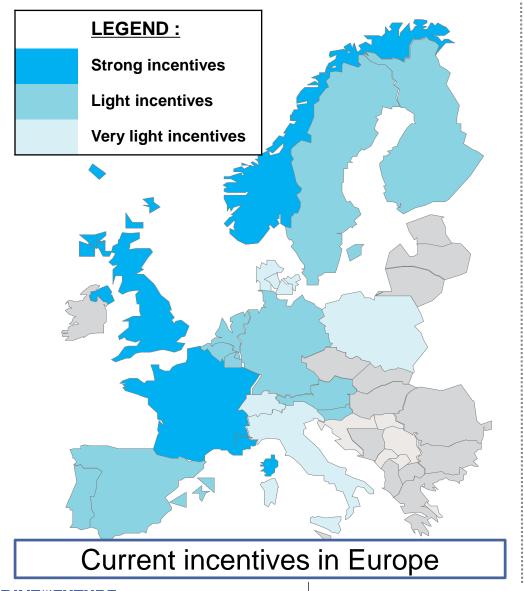
Limiting warming < 2℃

## **LEGISLATION**



Countries under CAFE regulation = 83% PC TIV in 2016 With Iran, Turkey and Chile = 86 % PC TIV

### **INCENTIVES AND PUBLIC POLICIES**









Ban on sales of ICE vehicles under investigation

→ ICE car taxation

Political consensus to impose non polluting vehicles by 2025

Sales of ICE vehicles banned by 2040

Sales of ICE vehicles banned by 2040

Envir. & Trans. Minister: budget of 72 M€ for 2017 & 2018 to promote electromobility



**INDIA** 



Government announcement: 100% electric vehicles by 2030 Massive investments annouced

Timetable for banning ICE vehicles under discussion « for a new future »
Substantial national & local subsidies

RENAULT

## 8 YEARS OF EXPERIENCE TO BUILD A COMPETITIVE ADVANTAGE

### FIRST MOVER WITH 4 MODELS





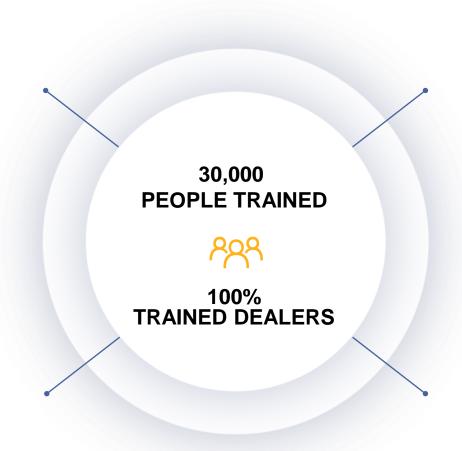
• 3 Formula-E championships



2014 - 2015

2015 - 2016

2016 - 2017



#### CUSTOMER SATISFACTION

- NEW ZOE: 400 km NEDC autonomy
- >90% customer recommendations
- >140K customers



### LEADER IN EUROPE



Ytd end sept.

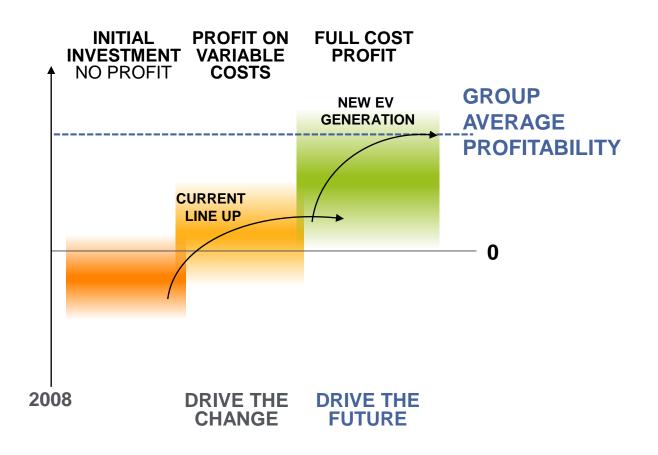




## A ROBUST & PROFITABLE CORE BUSINESS BY 2022

### THE OBJECTIVE

### THE PLAN













## **EXPANDING OUR REACH**







2016

4 Models1 Best seller



**1** K

1 Key market

2022

8 Models2 Pillar models





**2** Key markets



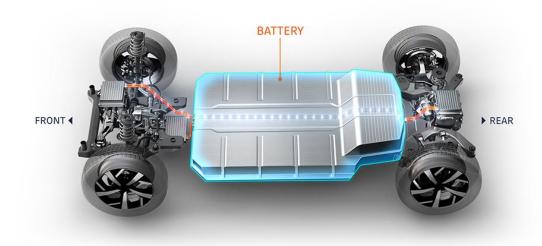




Develop next key markets

## **ACCELERATE COST REDUCTION**

## 3D SCALABLE ALLIANCE PLATFORM



**80%** of volume based on Alliance platform

- -40% R&D entry ticket
- -30% production cost

## COST BREAKTHROUGH

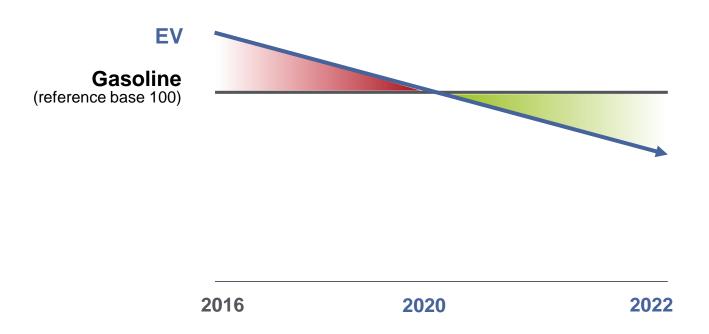


- Battery pack cost (€/kWh) -30%
- New E-motor generation **-20%**

## LEADER IN AFFORDABLE ELECTRIC MOBILITY

## TOTAL COST OF OWNERSHIP EV vs ICE

B-segment – 3 years – 12,000km/y Including reduction of incentives



#### AFFORDABLE AUTONOMY

Autonomy (NEDC)	€ Price* (w/o incentive)
400 km	€33,200 #1
280 km	€32,750
300 km	€35,900
300 km	€36,800



<sup>\*</sup> MSRP Germany Q1 2017

## PROVIDE EASY ELECTRIC LIFE

### **IMPROVED FEATURES**



- One class above in **roominess**
- Flat floor lay-out (CMF-EV)
- FOTA
- Autonomous Drive, progressive introduction

### NO MORE RANGE ANXIETY



- Above 600 km NEDC
- ≈ **400 km** real motorway range
- Recovery >230 km NEDC in 15 min

## **GENERATE VALUE FROM ENERGY & MOBILITY SECTORS (1)**

### **BATTERY SECOND LIFE**



Connect clean energy
to grid and buildings
Ex: High power charging station
with Connected Energy in Europe

### **CARSHARING**



Engage in main cities car-sharing projects

Ex: 500 ZOE with
Ferrovial in Madrid

## **GENERATE VALUE FROM ENERGY & MOBILITY SECTORS (2)**

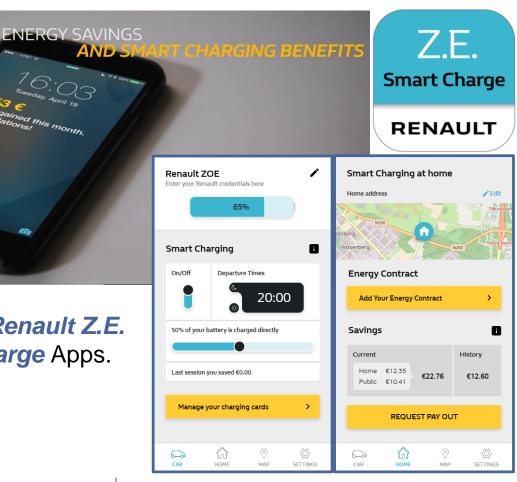
### **SMART CHARGING**



Pilot home charging to match electricity operators needs 25% stake in JEDLIX



Launch of Renault Z.E. Smart Charge Apps.





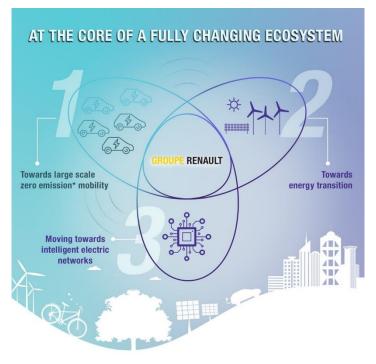




## **GENERATE VALUE FROM ENERGY & MOBILITY SECTORS (3)**

### **GROUPE RENAULT'S NEW SUBSIDIARY**

### **RENAULT ENERGY SERVICES**



Favour the expansion of electric mobility
Invest in the field of smart grids



# THANK YOU