



CAPITAL MARKETS DAY 2020

DS DASSAULT
SYSTEMES



**CAPITAL
MARKETS
DAY
2020**



Manufacturing Industries / T&M

Laurence Montanari
Dassault Systèmes

My Experience in a Few Words



A strong expertise and knowledge of the automotive industry



▶ 1992: mechanical engineer at Renault



▶ Quickly moved to Services, holding various positions in this division: helpdesk, recall campaigns, after sales documentation, Accessories Program director.



Dassault Systèmes Enables Renault's LCI to Experiment with an Electric Car for Last-Mile Delivery

- Renault's in-house Cooperative Innovation Laboratory (LCI) uses 3DEXPERIENCE platform to imagine disruptive mobility solution for urban areas
- Real-time, secure collaboration on the cloud gives LCI team the agility of a startup
- Virtual value network connects diverse internal and external project team members

Dassault Systèmes, Press Release May, 2019

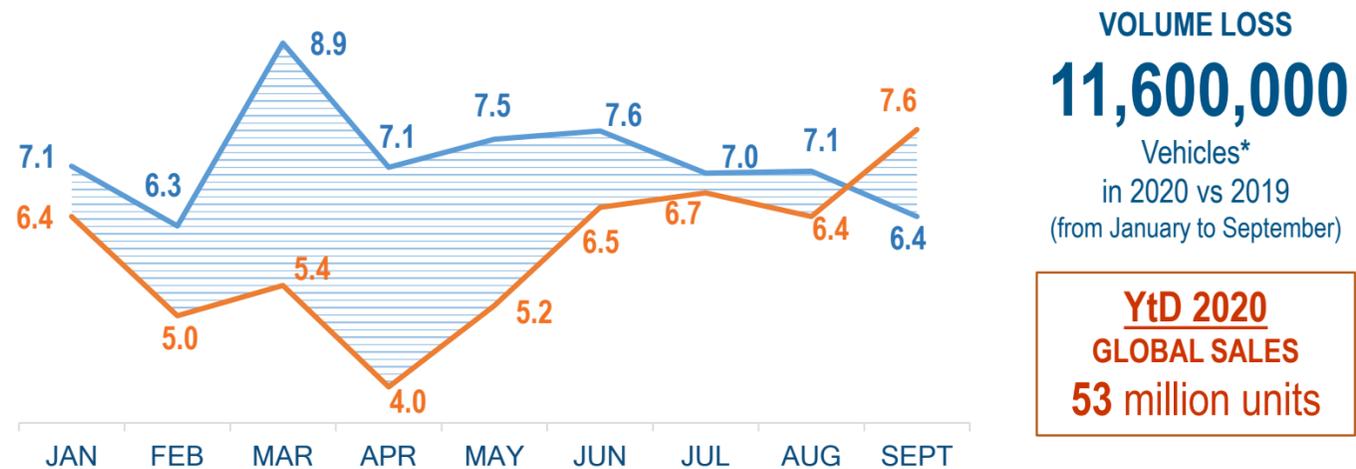


Groupe Renault

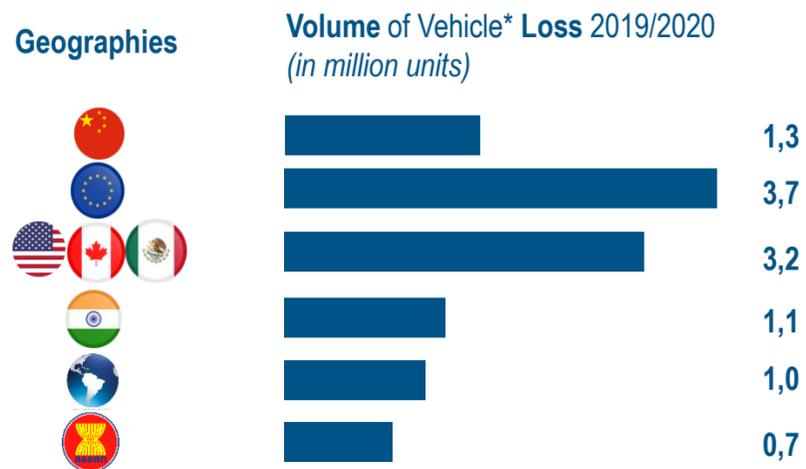
▶ Project leader of disruptive vehicles : Pre-Project of Twizy, Renault EZ FLEX

2020 is Tough for Car Manufacturers

Year to Year vehicle sales : 2020 versus 2019
 After months of losses, post lockdown sales were at the same level as last year

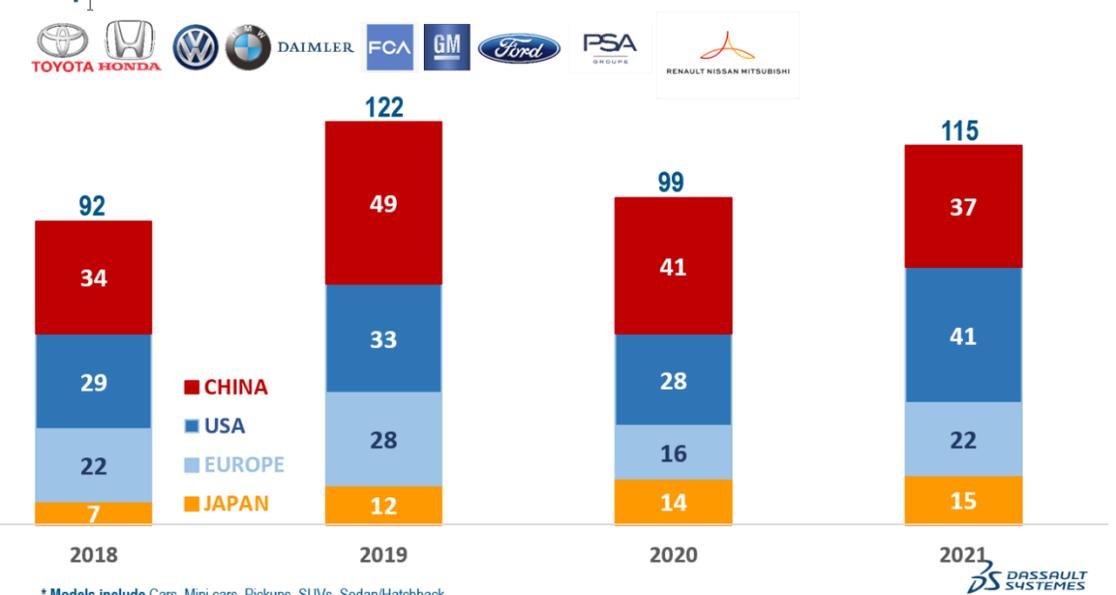


All Vehicles Global Sales - YtD 2020 (million units)



New vehicle projects are still going on

Top 10 OEMs – Number of Start of Production* – 2018-2021



Transportation industry **still continues**
 to design, model, simulate cars & trucks in order
 to launch new models next year.

Car Manufacturers' Challenges of 21st Century Mobility

SHARE PUBLIC SPACE

of cities between pedestrians, mobility with cars, public transports, transportation of goods for healthier life & well-being

ENLARGE DIGITAL EXPERIENCE WITH ITS END CONSUMERS

Automotive brands need to refine and digitize the customer experience to develop into the mobility providers of tomorrow.



RENEW AS AN AUTHENTIC PLAYER

*of the 21st Century
Traditional OEMs have a long history with Internal Combustion Engine*

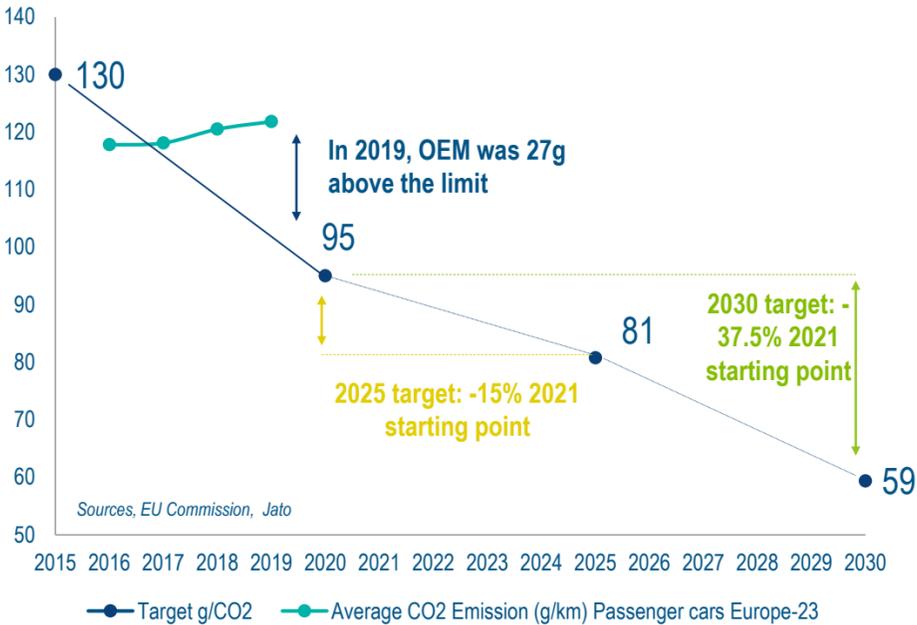
DEVELOP VEHICLES MORE RESPECTFUL

*of the quality of the air and of the resources of the planet
Environmental Pollution is the 2nd major concern on a list of 21 tracked.*

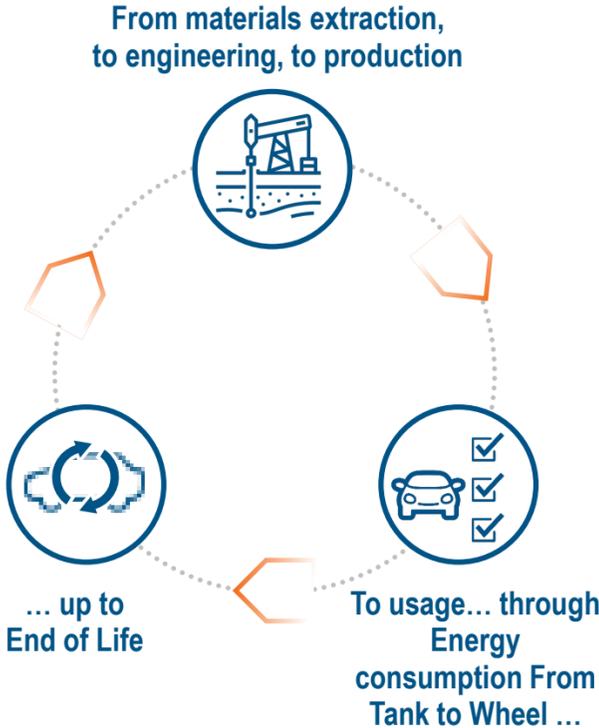
Develop Vehicles More Respectful of the Environment

The 3DExperience Platform connects the dots between all sustainability domains

Sustainability Regulations now encompass the complete lifecycle from **Cradle to Grave**



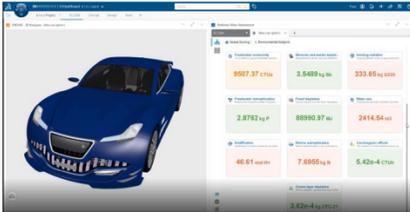
European CAFE target:
road to 0 gCO₂/km in 2050



End to end Traceability: Lifecycle Assessment, Rare Material, Circular economy



Analytics to assess environmental footprint



Close Loop between R + V and data as evidence: Real world experience to continuously improve mobility experience's environmental footprint

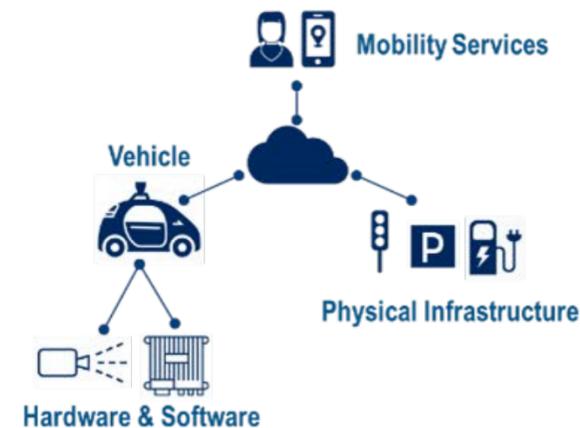
Renew as an Authentic Player of the 21st Century

“Electrical, Electronic, Software” System-Driven approach to develop mobility experiences

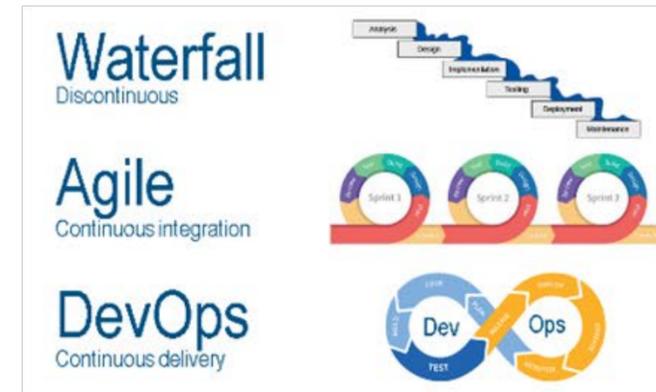
NEW Mobility Experiences



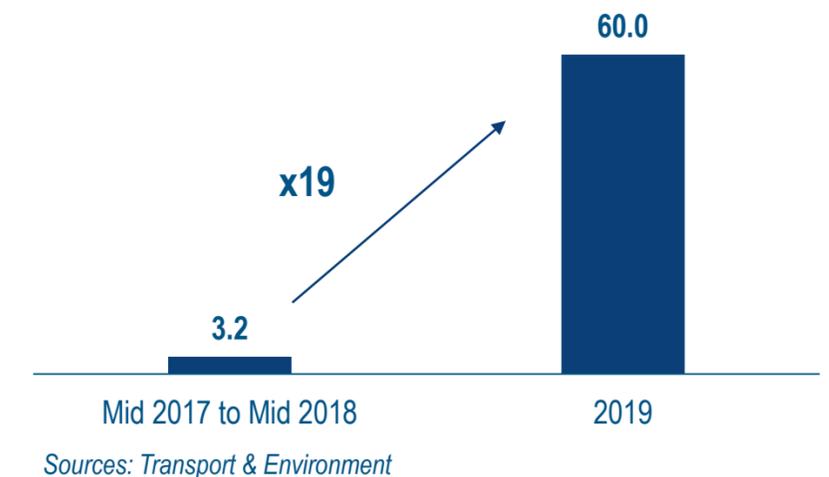
NEW Value Networks



NEW Ways of Working



Investment in Europe on E-Mobility (\$Bn)



Leveraging current CATIA MAGIC installed base: present at 7 out of 10 major T&M OEMs

Extension to software and model design will double our potential of 3DEXPERIENCE users

- ▶ Reduction of design change requests by 40%
- ▶ Reduction of development costs by 30%

9 out of 10 EV Startups Using 3DEXPERIENCE

#	Name	Geo	Solutions
1			
2			
3		  	
4			NP
5			
6			NP
7		 	
8			
9			NP
10			

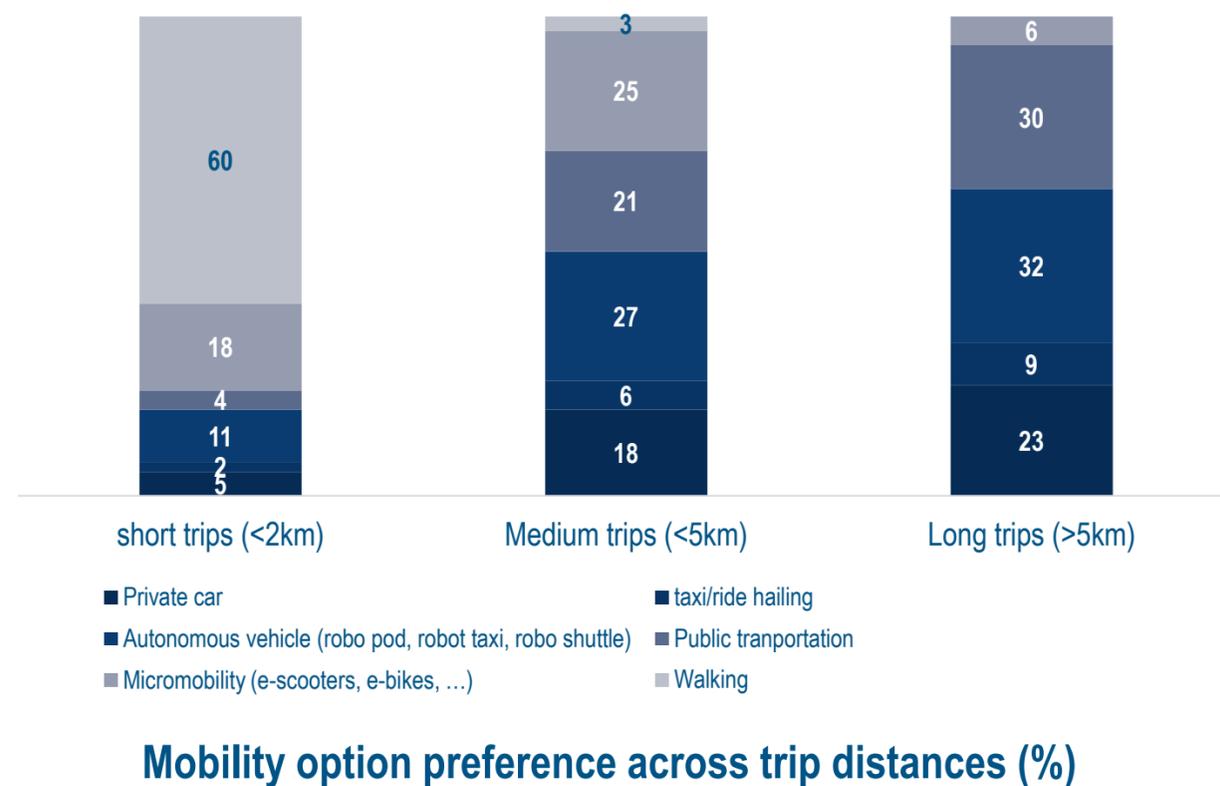
3DEXPERIENCE Platform Covers Development From Semiconductors to Carmakers



Share Public Space

A multi-players' collaborative platform to integrate data, model future scenarii & operate

BCG asked 5,000 people around the world what mode of transportation they would choose for making different types of journeys **in the future**.
For medium or long trips: they are still considering using a vehicle



The overall mobility market will evolve around three pillars



Alternative powertrain

- EV
- PHEV
- Hydrogen, ...



Connected and autonomous vehicles
(not only cars)



Mobility as a Service

- Ride sharing
- Mobility providers

\$1 Tn
Expected market
Size in 2030

Share Public Space

A multi-players' collaborative platform to integrate data, model future scenarii & operate



Enlarge Digital Experience with its End Consumers

3DEXPERIENCE closes the loop between Engineering and Marketing

