



Accelerating EV Development Republic of the Philippines

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Dassault Systèmes



20,000 PASSIONATE PEOPLE

130 nationalities / 188 sites

290,000 ENTERPRISE CUSTOMERS

11 industries in 140 countries, 26 million Users

LONG-TERM DRIVEN

Revenue: €4,5 billions non IFRS

Operating Margin: 30.2%

12,260 PARTNERS

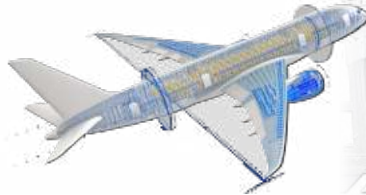


Our Legacy

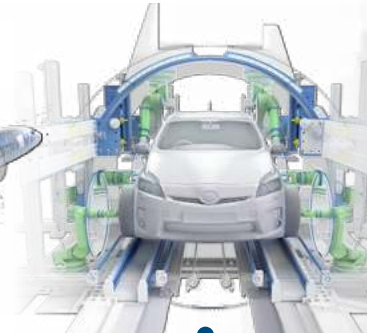
Dassault Systèmes provides business & people with 3DEXPERIENCE® universes to imagine sustainable innovations capable of harmonizing product, nature and life.



1981
3D Design
CAD



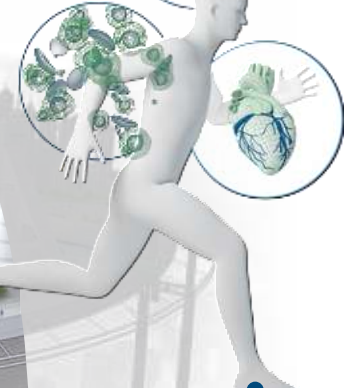
1989
3D DMU
Digital Mock-up



1999
3D PLM
Product Lifecycle
Management



2012
3DEXPERIENCE®
Model Based Platform



2020
Virtual Twin
Experience
of **Humans**

Dassault Systèmes



The 3DEXPERIENCE Company



Partnering with innovation leaders across 11 industries



Addressing the New Challenges of mobility



Top challenges shaping the future of mobility

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Business Drivers



Connected and Electro Mobility



Personalization & differentiation



New Regulations (Emission, Safety)



New Mobility Business Models



Quality and Reliability

Philippines Context



Strong Push and fiscal incentives to drive EV market adoption (Electric Vehicles and Charging Stations Act)



Digital Show rooms Personalization of offering to customer Social and Brand image



ASEAN NCAP (2021-2025 Protocols (No. 1-10)



Car Mobility Services and Fleet Operators. (Grab, Angkas, Owto, Hype)



Made in the Philippines : To become a manufacturing Hub for Auto component makers and assembler of Electric Vehicles (EVMR)

Rising fuel prices, pollution and stricter emission norms fuel growth of EV's in the Philippines

Issues to be addressed:

Long term impact of electric mobility in the Philippines:



Increased reliance on refinery imports due to refinery plant closures due to over supply

- Reduce dependency on oil imports
- Energy import bill to reduce sharply



90% of PH vehicle emissions come from Metro Manila

- Reduce tailpipe emissions

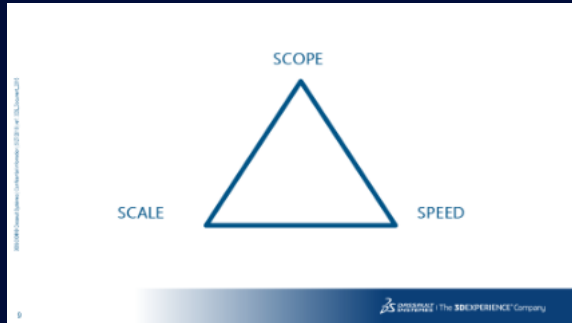


The Philippines is not on track for 1.5°C World

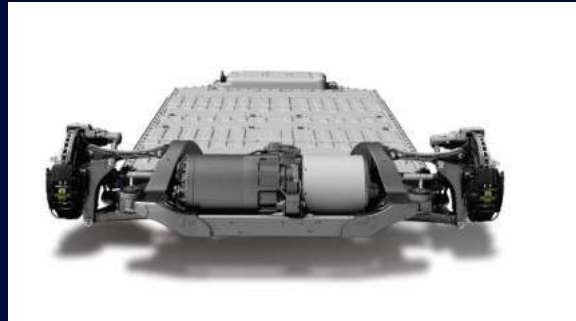
- Overall CO2 emissions per electric vehicle to decrease by almost 30% when compared to ICEs

Electrification has major impacts on all players

Business Transformation



Vehicle Technologies

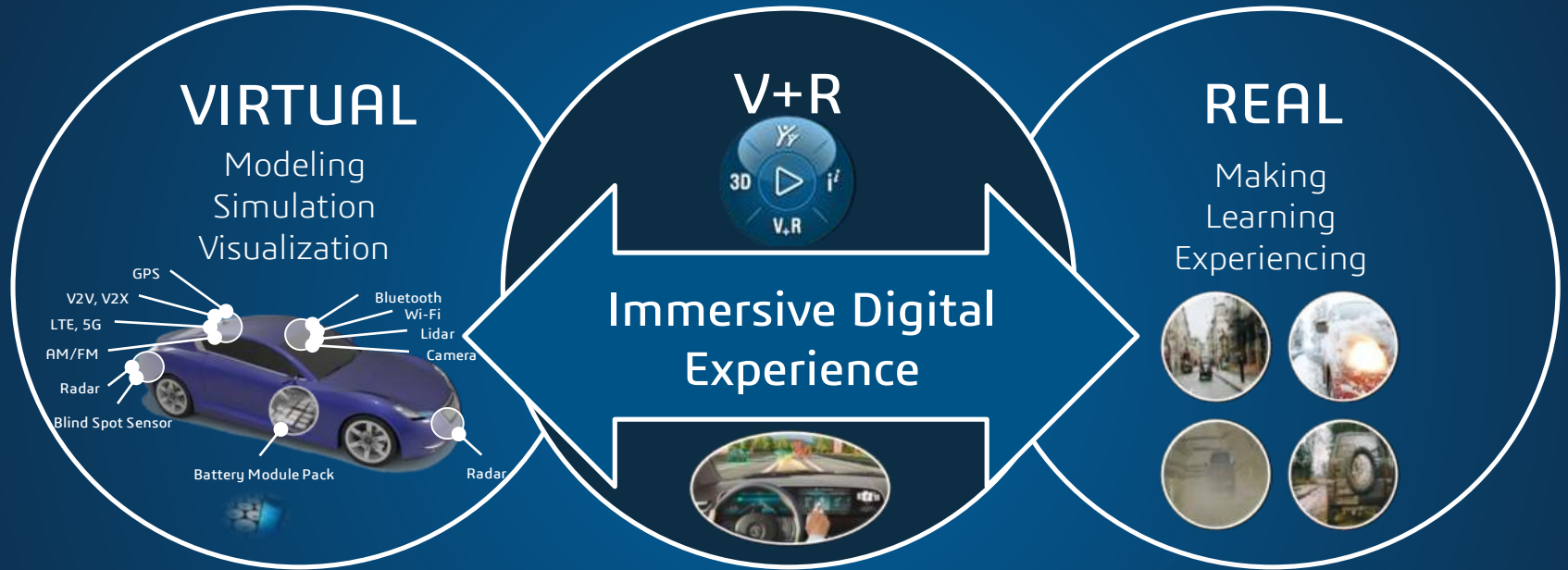


New Ways of Working





3DEXPERIENCE Platform: Reducing the Distance Between V&R



IMAGINATIVE | IMMERSIVE | COLLABORATIVE | PREDICTIVE

PEOPLE: Value Networks. Knowledge. Know How.

& TECHNOLOGIES: MBSE. Multi-Scale and Multi-Discipline Simulations. AI. AR/VR. IIoT.





SW
SkyWay



ROMEO
POWER TECHNOLOGY



NIO



TESLA



GIM



BMW
AUTOMOBILES



AKYA



SPARK
RACING TECHNOLOGY



RIMAC
AUTOMOBILI



Mahindra
electric



BMW



TRANSPGD



LCI



EVUM
MOTORS



Simple Energy



canoo



canoo



KREISEL



musoshi



LIGHTYEAR

Electric Vehicle Adoption - Way Forward



Technology Driven



Policy Driven



China's Shanghai city will continue to provide free special licence plates to new consumers of electric vehicles and fuel cell vehicles in the next two years in an effort to encourage the use and purchases of environmentally friendly vehicles.



Purpose / TCO Driven



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