



3DEXPERIENCE®

VIRTUAL TWIN EXPERIENCES

Michel TELLIER – Vice President, Virtual Twin Experiences As a Service, Dassault Systèmes

PLM Road Map & PDT EMEA 2023
Paris, France | 15 & 16 November

 | The 3DEXPERIENCE® Company

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The Digital Thread in a Heterogeneous, Extended Enterprise Reality

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CIMdata®

•eurostep

A SCIENCE BASED PLATFORM

ALL SCALES

Functional

Logical

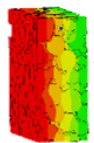
Physical
Macroscale

Physical
Mesoscale

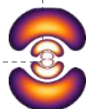
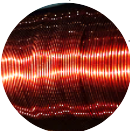
Physical
Microscale

ALL PHENOMENA

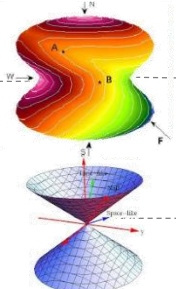
Objects



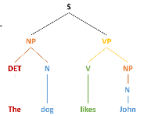
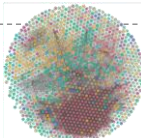
Waves



Motion

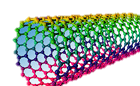
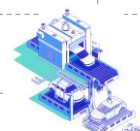
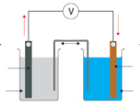


Cyber

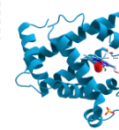
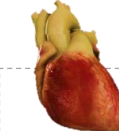


ALL DOMAINS

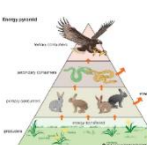
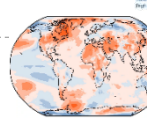
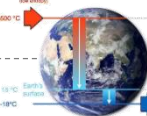
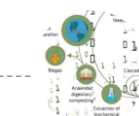
Industry



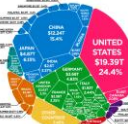
Life



Planet



Society



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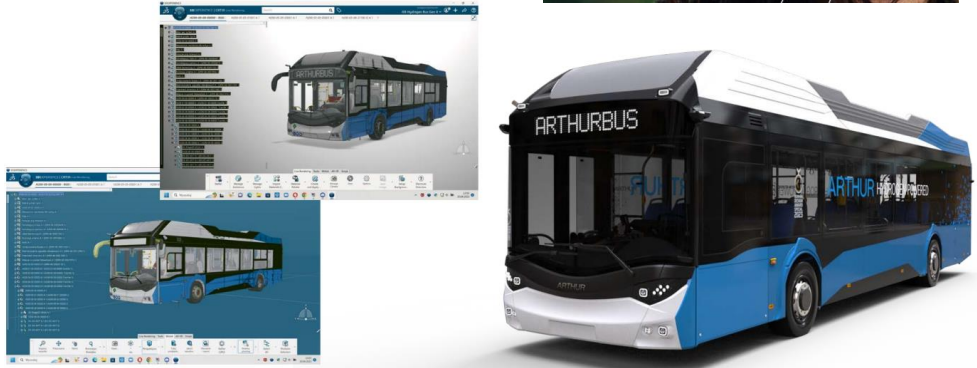
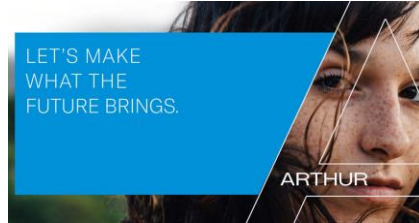
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FROM NEW ENERGY VEHICLES TO MOBILITY SERVICES



WHO

ARTHUR



WHY Tipping Point

- Need to design, simulate and operate heterogeneous systems of sustainable door to door mobility



WHAT

- 30% Development time & cost reduction
- Reduced risk of warranty and recall by 80%



HOW Offer

- Quick start for Electric Vehicles startups
- Certification driven Cyber System Experiences



WHO

- T&M OEMs Shakers
- 90% EV Makers
- Mobility Providers

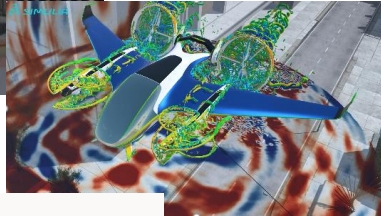
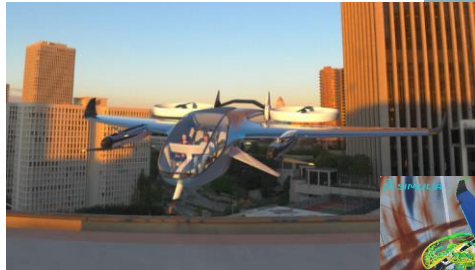
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FROM TRADITIONAL AIR TRANSPORTATION TO ADVANCED AIR MOBILITY (AAM)



Designed for Daily Life

We all want to spend less time traveling and more time living. At Joby Aviation, we're making that possible with our pioneering electric aircraft. It's a faster, cleaner, and smarter way to carry people through their lives.

Powered by six electric motors, our aircraft takes off and lands vertically, giving us the flexibility to serve almost any community. Flying with us might feel more like getting into an SUV than boarding a plane.



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? WHY Tipping Point

- Need to design, simulate and operate eVTOL passenger transportation systems of sustainable air mobility

WHAT

- 50% Development time & 30% cost reduction*
- Most advanced AAM company in their eVTOL's certification process** → 20% time decrease

HOW Offer

- Tailor-made solutions for AAM start-ups and scale-ups
- Accelerate concept to certification on the cloud with Reinvent The Sky and First to Prototype

WHO

- AAM shakers & Air Mobility providers
- eVTOL manufacturer & operators



* Average benefits of our AAM solutions **AAM Reality Index top score

WHY DO WE NEED SMART MOBILITY

Business Drivers

Population Dynamics:
increasing urbanization
& urban sprawl

Increasing demand for
freight transport

Urban infrastructure
saturation

Sustainability of
transport, city
liveability enhancement

Enlarged **coopetition**
between mobility
services



Need to
collaboratively
provide
Safe
Shared &
Sustainable
Mobility
Services



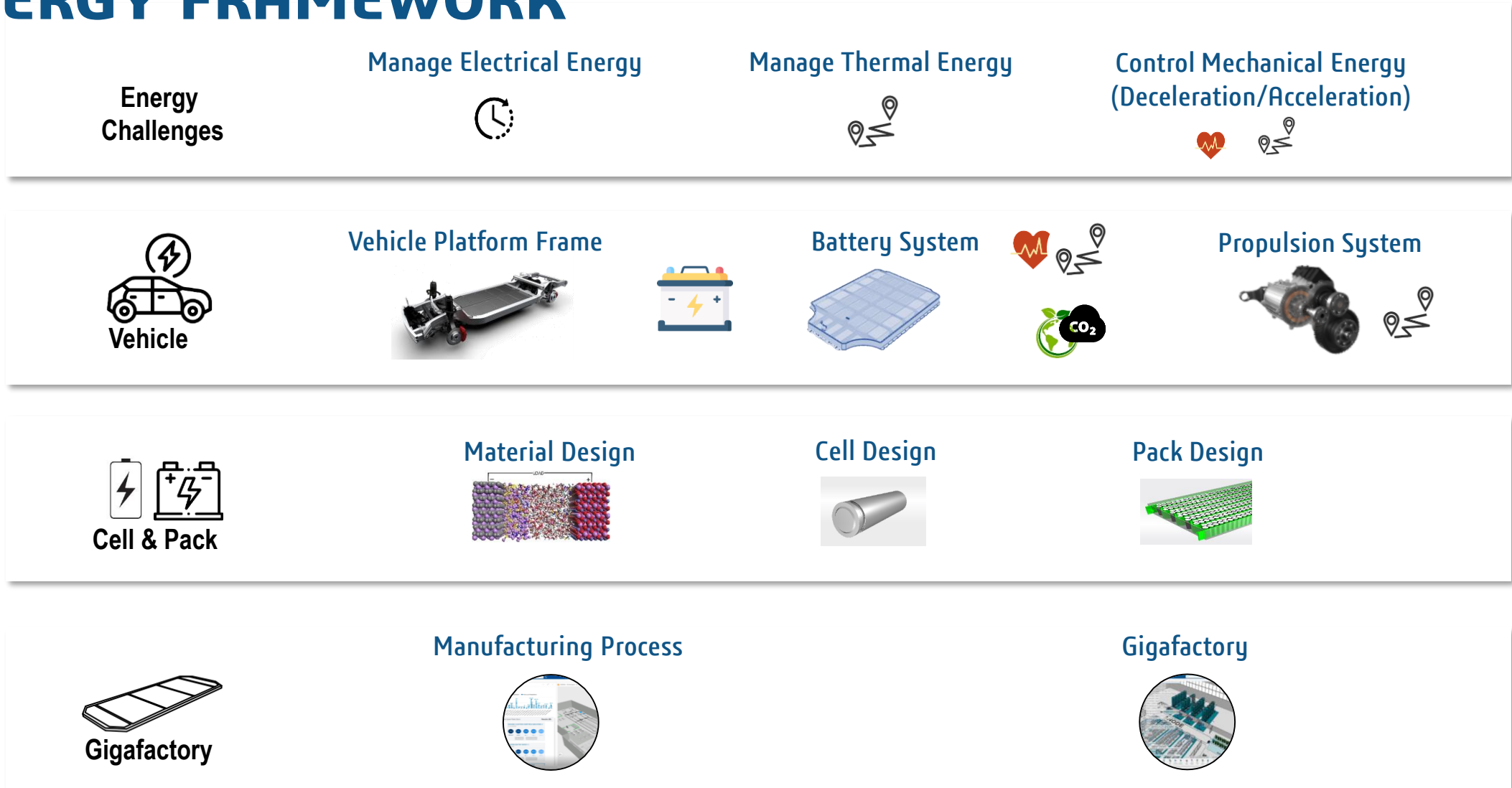
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ENERGY FRAMEWORK



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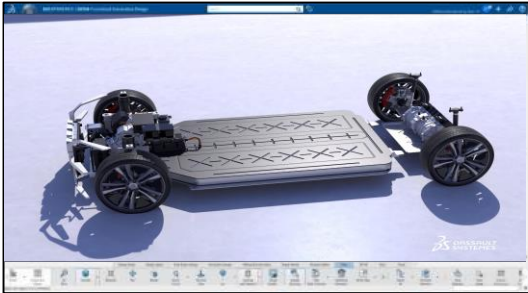
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VIRTUAL TWIN EXPERIENCE: A HOLISTIC APPROACH

WHAT

EXPERIENCE

Create the future of products & services



HOW

PRODUCTION

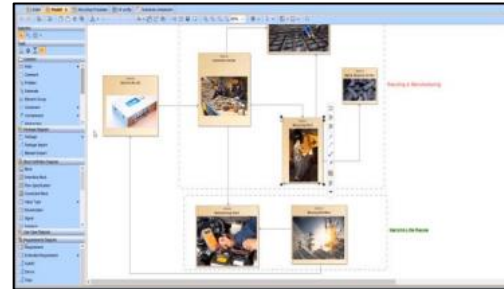
Power and scale my production system



WHO

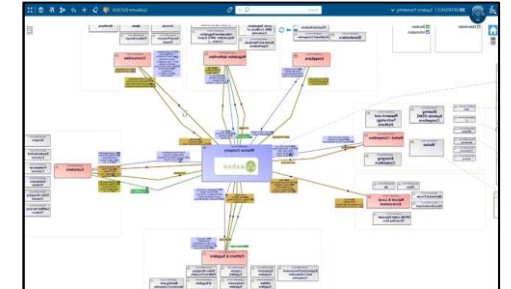
ECOSYSTEM

Shape my value network



ENTERPRISE

Run & operate my entire enterprise



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