



SIMULIA

Powering Innovation with Simulation

Scott Berkey
Managing Director North America
CEO SIMULIA

December 2015

3DEXPERIENCE®



3DEXPERIENCE™

sustain
accelerate
with the right tools you can experience innovation



Simulation Powers Innovation

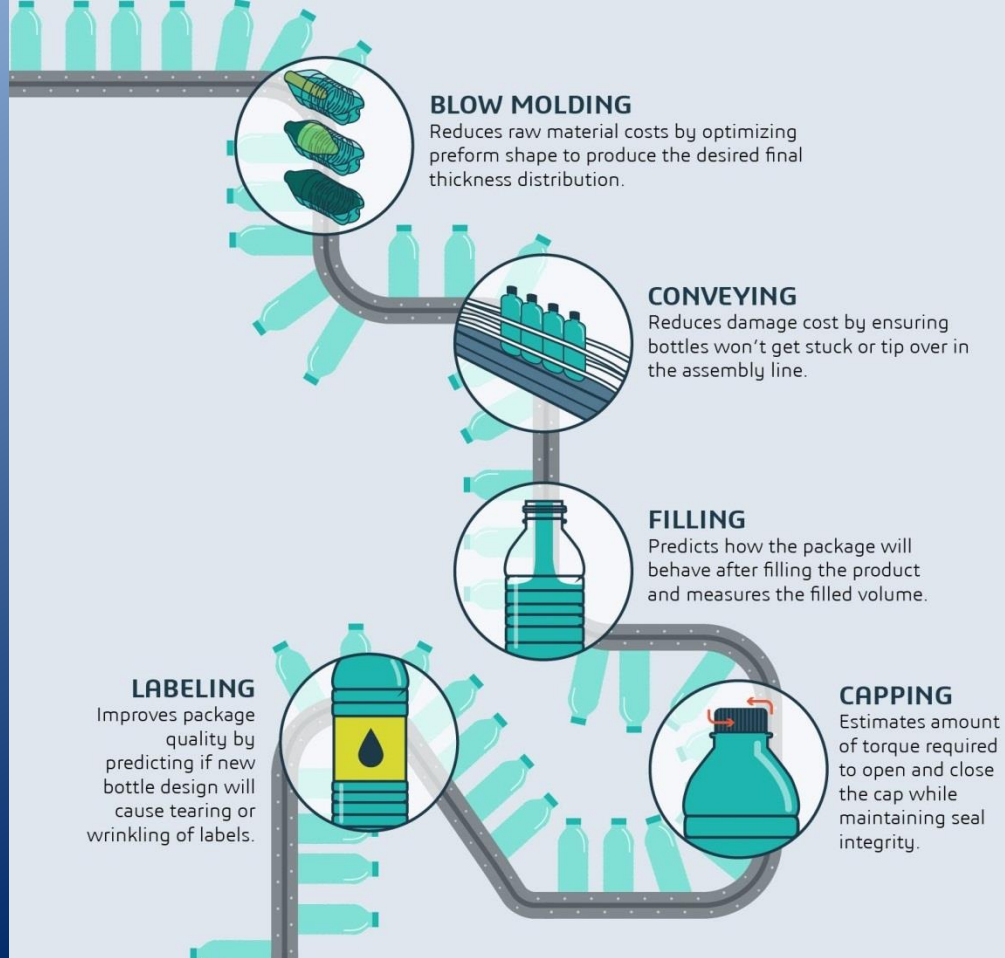
Virtually test thousands of design alternatives to discover innovative designs that will succeed in the real world



75%:

Reduction of package development time and effort

Coca-Cola






27%:

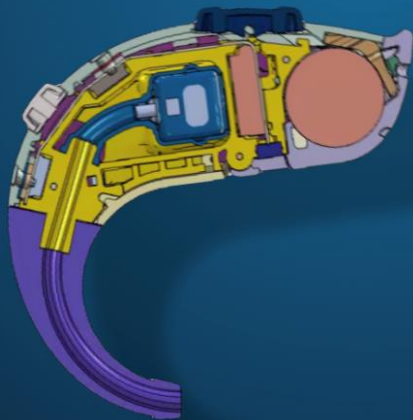
Reduction of raw materials
largely due to virtual testing

Amcor Limited



*“Simulating **seating comfort** using FEA greatly simplifies the [design] process. It’s objective, reproducible, and cost-effective.”*

Alexander Siefert–Wölfel Group



*“Tools such as Abaqus and Tosca have definitely helped us to be **more innovative.**”*

GN ReSound



Simulation & Analysis Market

\$4.7 Billion

2014

\$6.7 Billion

Projected
2019

-CIMdata

Addressable today: \$2.4 Billion

Simulation & Analysis Market

One of the *Fastest* Growing

Segments of the PLM market

-CIMdata

SIMULIA is the
Fastest growing
in the S&A market

The SIMULIA Brand



3DEXPERIENCE®

Simulation for Product, Nature & Life

The Social Community of Simulation Experts in Industry, Scientific Research and Academia



1100 employees
29 Centers of Simulation Excellence and 464 Value Solution Partners worldwide

- HQ in Providence, RI
- 12 R&D locations world-wide
- **Growing** simulation portfolio



170,000 users

- Covering all 12 industries
- Customers in 80 countries
- Users are Designers, Design Engineers, Academics, Researchers, and Simulation & Optimization Experts



185 Alliance Partners

- Complementary Software
- Components
- Hardware

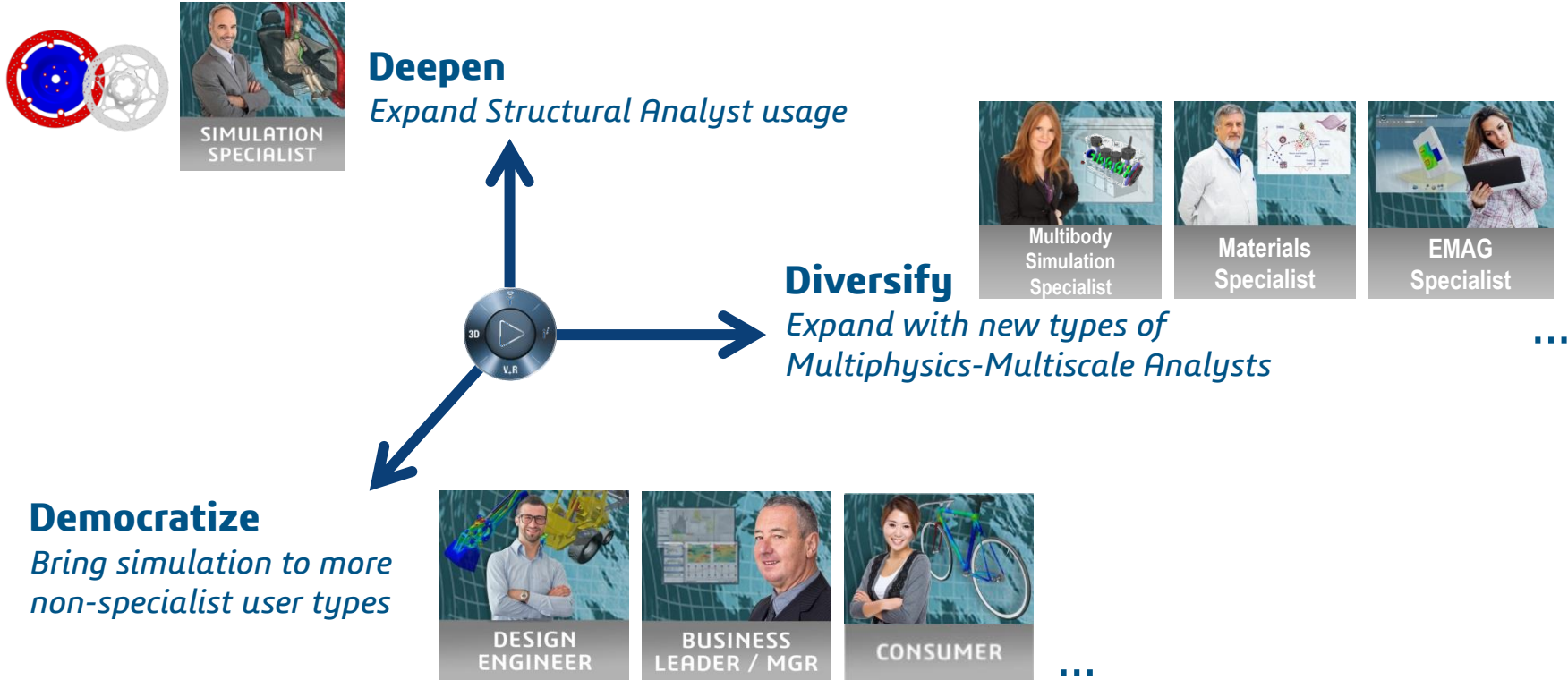


Technology driven

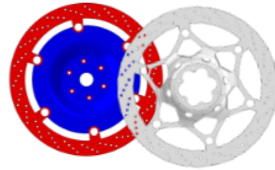
Continued strategic focus on:

- High-quality products and support
- Innovative technology
- Customer satisfaction

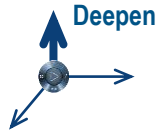
Growth Drivers: Deepen, Diversify, Democratize



Deepen



Expand Structural Analyst usage



What does the Structural Analyst want?

Technology

Advanced non-linear analysis
Fatigue & durability
Optimization (several types)
Composites
Additive manufacturing
Flexible electronics
...more!



Productivity

High performance computing
Automation tools
Simulation management
...more!



SIMULIA Customers: Deepening by Industry



Transportation & Mobility



Aerospace & Defense



Marine & Offshore



Industrial Equipment



High-Tech



Consumer Goods

- Retail



Consumer Packaged Goods

- Retail



Life Sciences



Energy, Process & Utilities



Architecture, Engineering & Construction



Financial & Business Services

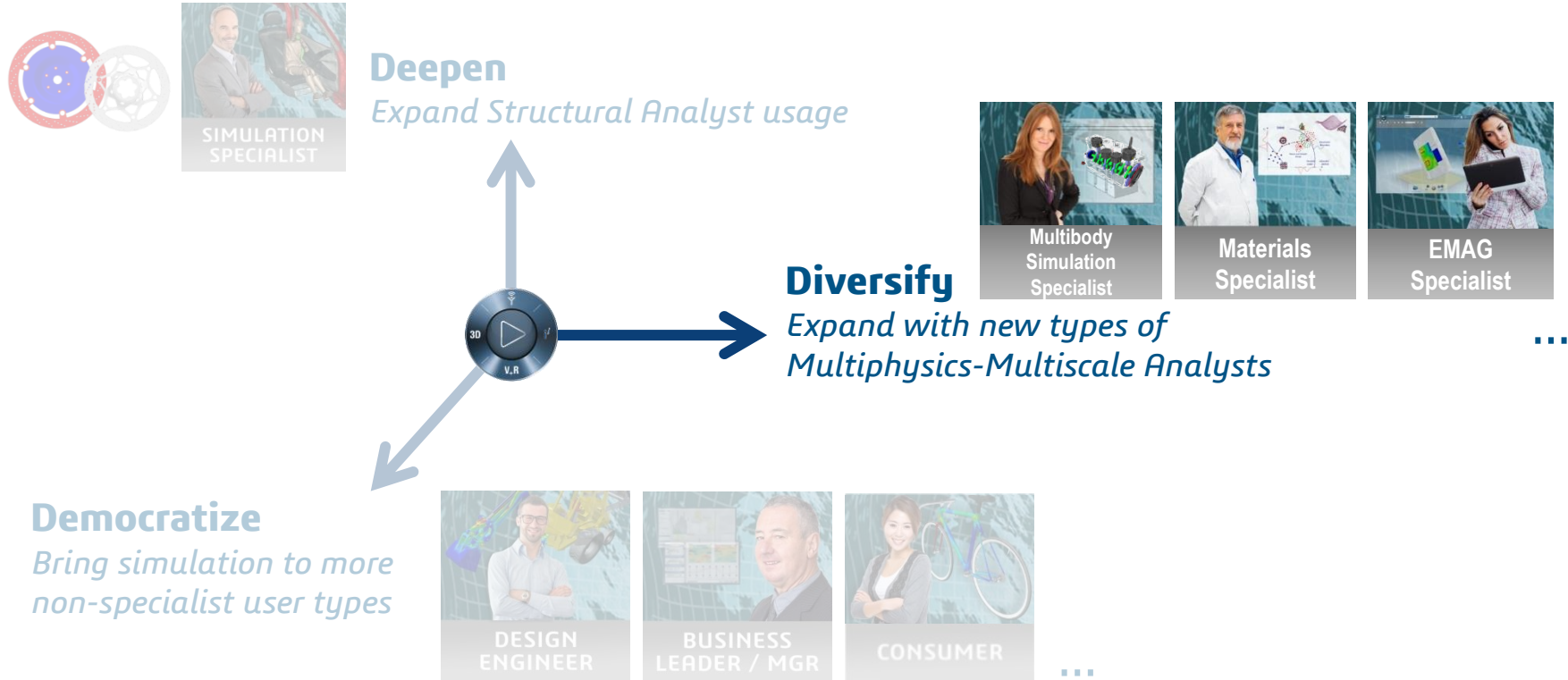


Natural Resources



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Growth Drivers: Deepen, Diversify, Democratize



Diversify

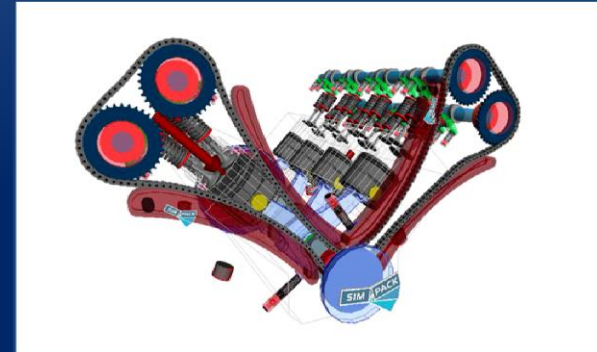
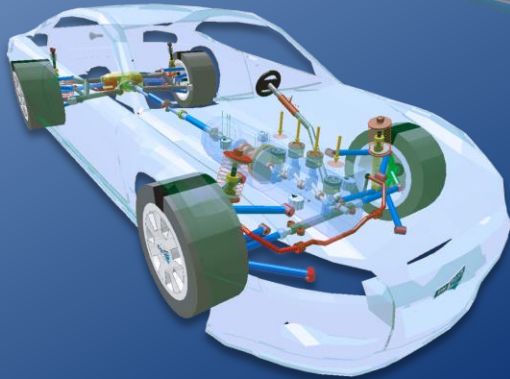
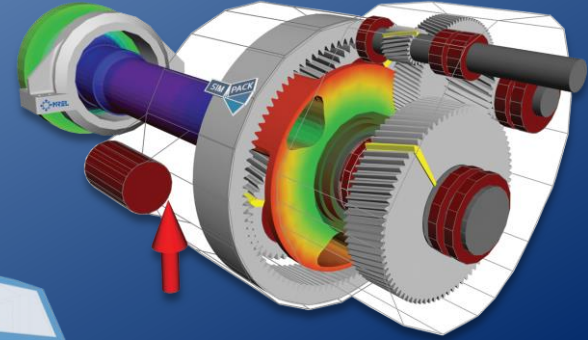
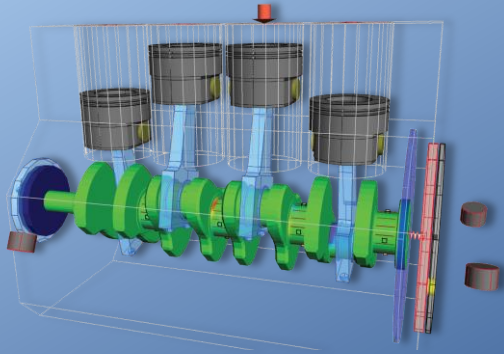
*Expand with new types of
Multiphysics-Multiscale Analysts*

What additional types of simulation analysts can we serve?



3DS.COM/SIMULIA | Dassault Systèmes | 11/27/2015 | ref.: 3DS_Document_2015

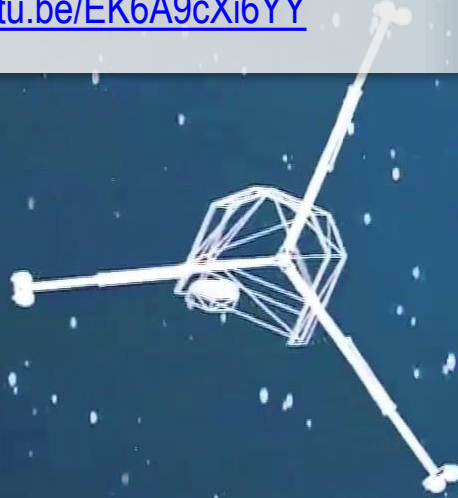
Acquisition: DS acquires SIMPACK July 11, 2014



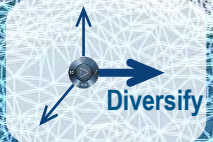
Simulation Powers Innovation

Comet landing made possible via SIMPACK technology

Watch the video: <https://youtu.be/EK6A9cXi6YY>



The scientific purpose of Rosetta is to explore the beginning of the Solar System.



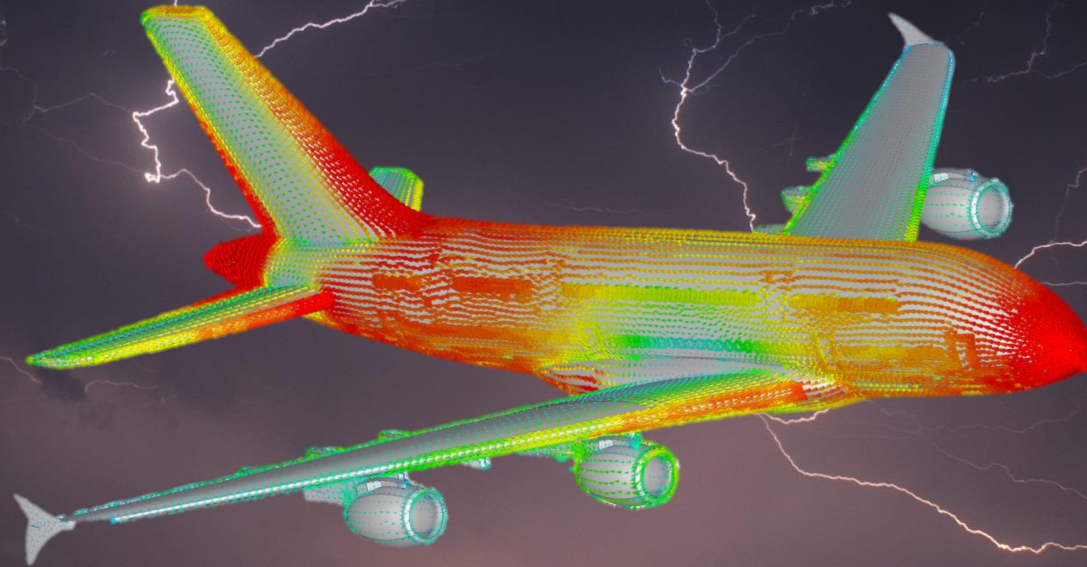
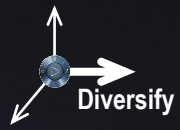
Diversify

*Expand with new types of
Multiphysics-Multiscale Analysts*

What additional types of simulation analysts can we serve?



CST Partnership



Diversify

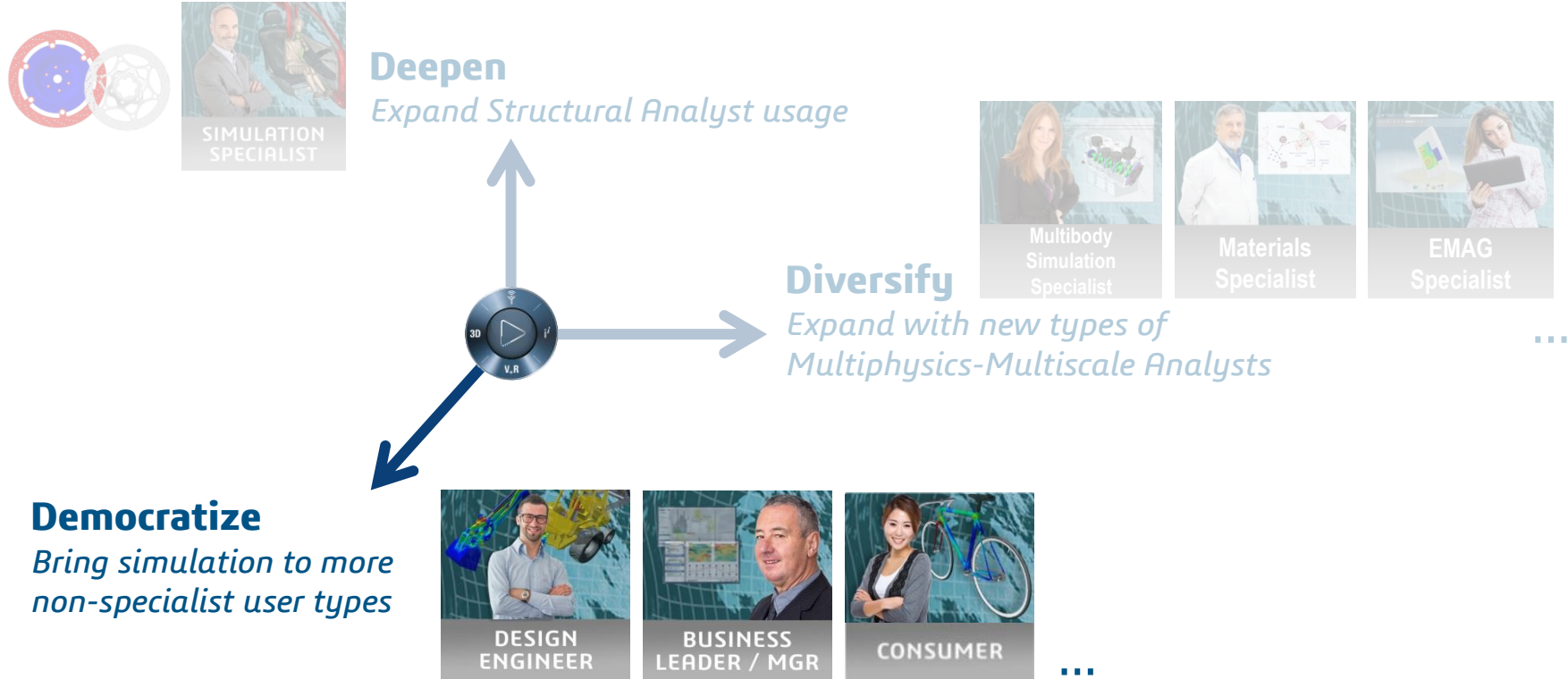
*Expand with new types of
Multiphysics-Multiscale Analysts*

What additional types of simulation analysts can we serve?

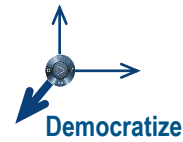


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Growth Drivers: Deepen, Diversify, Democratize

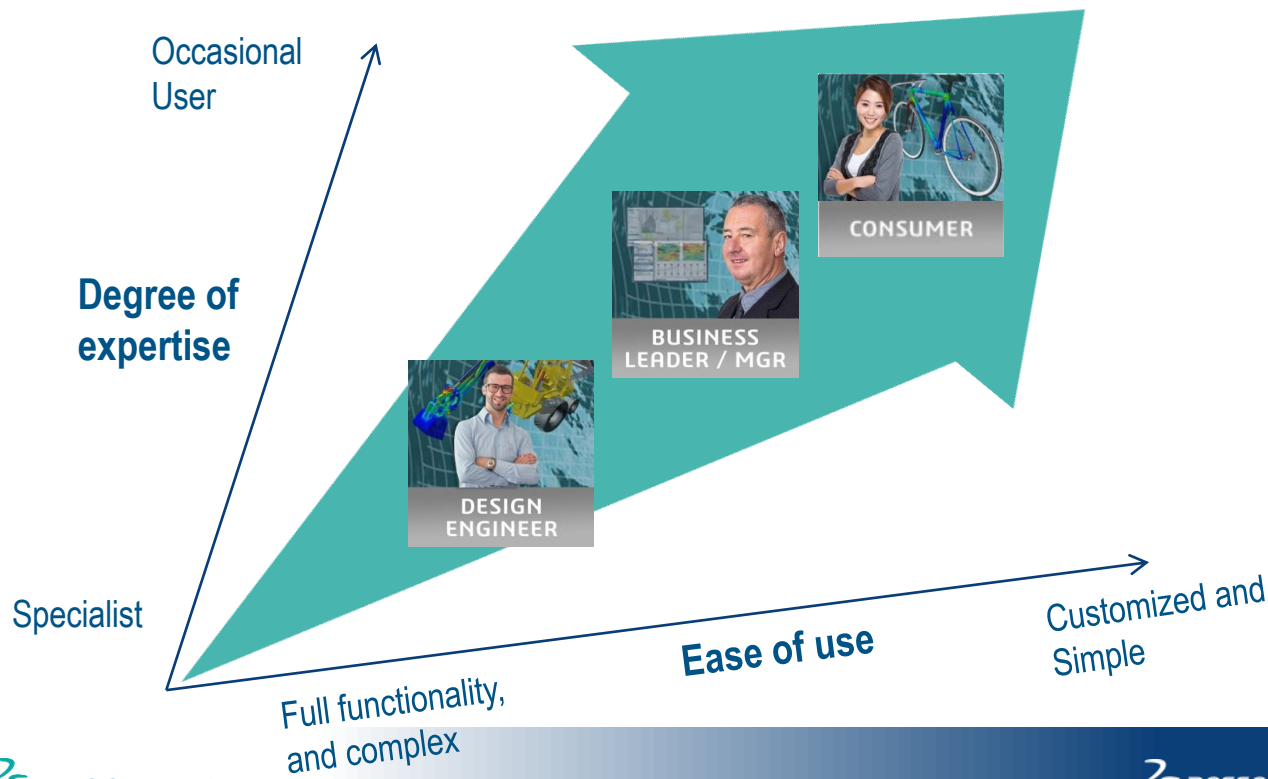


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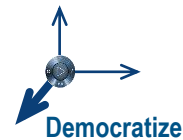


Democratize

Bring simulation to more non-specialist user types



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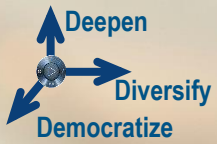


Democratize

*Bring simulation to more non-specialist user types
through Dassault Systèmes brands*



Industry Shift: Additive Manufacturing *More than just Prototyping*



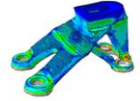
Industry Shift: Additive Manufacturing

More than just Prototyping

Deepen

Expand Structural Analyst usage

Advances in technology
for layer by layer manufacturing



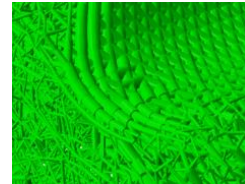
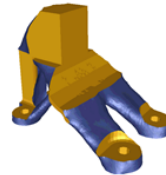
Diversify

*Expand with new types of
Multiphysics-Multiscale Analysts*

For Materials
Metals and
Polymers

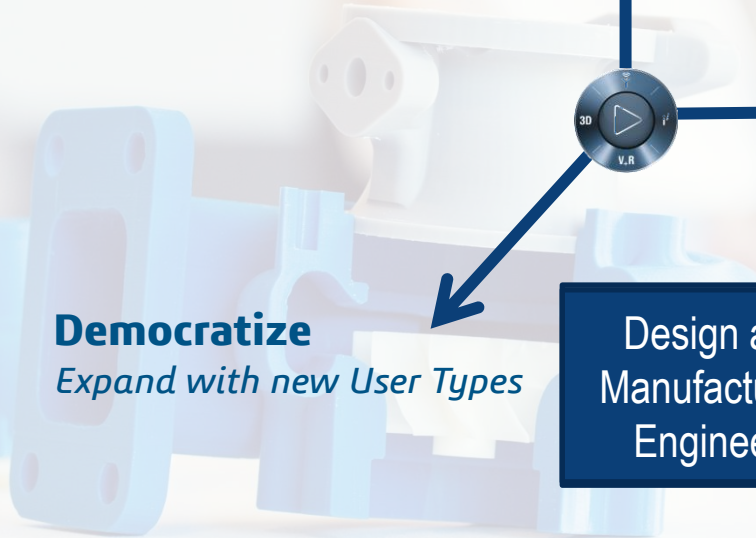


Design and
Manufacturing
Engineers



Democratize

Expand with new User Types



3DEXPERIENCE Platform for all simulation users

A **Business Experience Platform**
available On Premise and
in public or private cloud



To enable our clients to create
delightful **EXPERIENCES**
for their ultimate customers or
consumers

3DEXPERIENCE®



Collaboration



Productivity



Decision Support



Open



Single Source

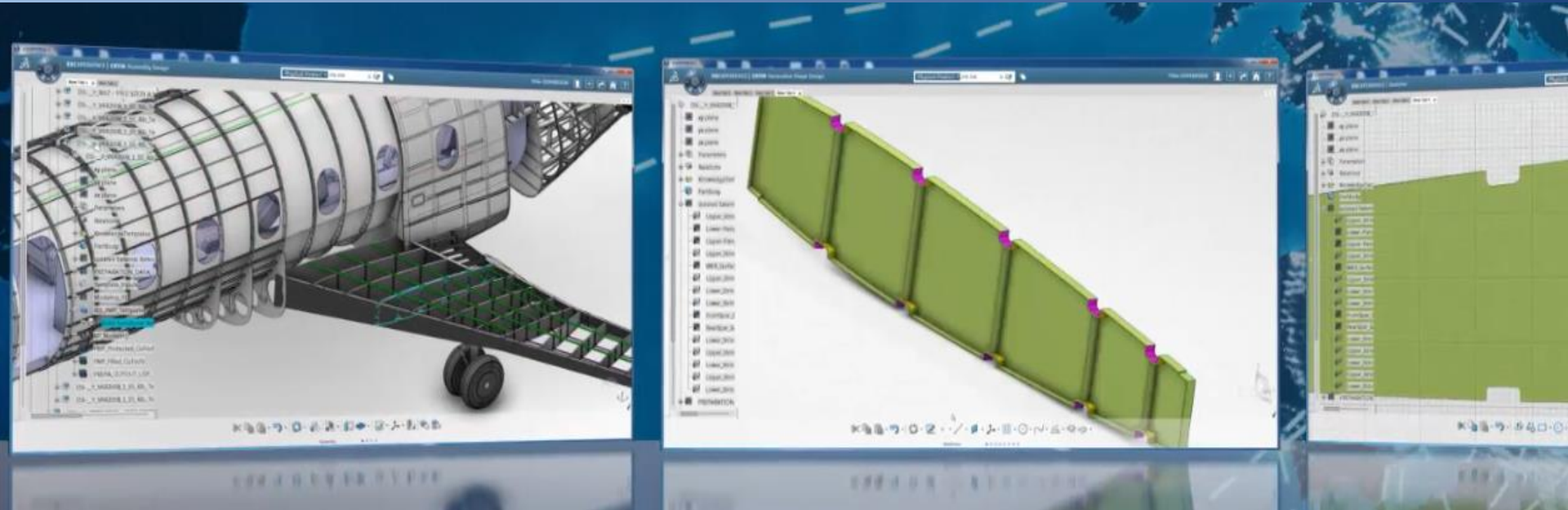


On Cloud



On Premise

Seamless Integration from CAD to CAE

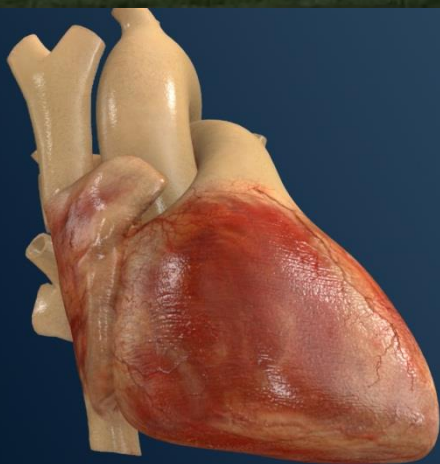




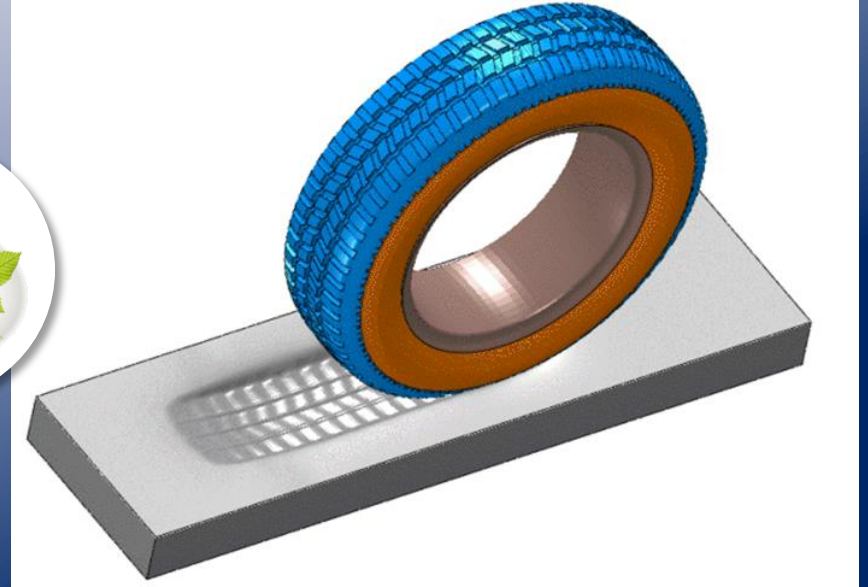
**Simulation for Product,
Nature and Life**



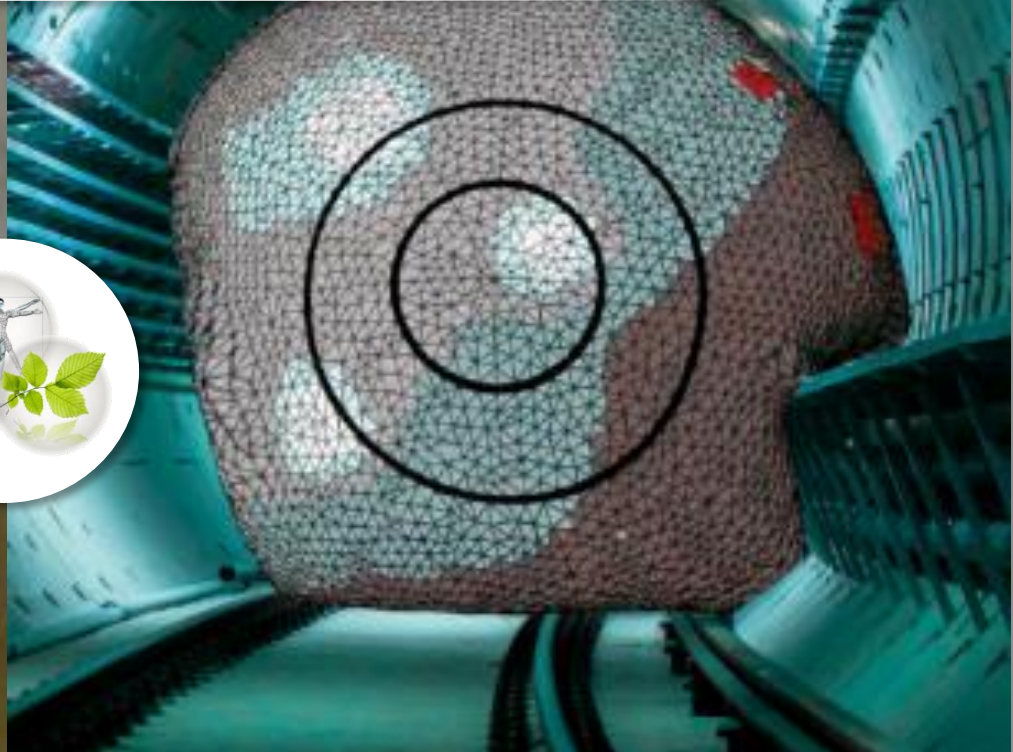
Societal needs are changing



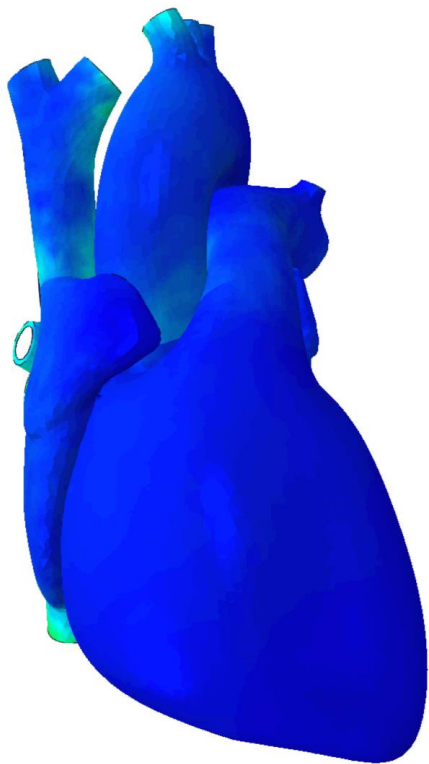
Tire / Soil interaction



Inflatable Tunnel Plug to Prevent Flooding



Images Courtesy of E. Sosa, West Virginia University , Plugging Design Gaps with Simulation, SIMULIA Community News, #11 October 2015



The Living Heart Project

IF WE apply the power of realistic simulation to human modeling, we can **revolutionize** medical care.



Society's current need for simulation-powered innovation is a big opportunity

And it's growing with new demands for harmonizing product, nature, and life

Dassault Systèmes is uniquely positioned to lead the way into simulation's next growth phase



Simulation for Product,
Nature and Life

