

DIE ÖKOBILANZ – EIN STRATEGISCHER SCHLÜSSEL ZUM NACHHALTIGEN PRODUKTDESIGN

Gopal Bhat Dassault Systemes, Germany

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A CUSTOMER QUOTE FROM A TIER 1 SUPPLIER

"

• Our most important Customer is demanding us to supply Carbon Footprint reports already in the RFI Phase

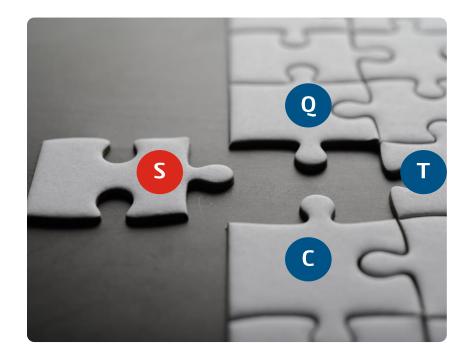
 We need to establish a sustainability Organization which takes care of the Methods, Processes and Tools

 The consequence of not adhering to this sustainability demand for us is not only loss of reputation but also loss of business and employee retention



SUSTAINABILITY IN TODAY'S CONTEXT

- The missing piece of the puzzle Sustainability
- Worldwide Regulations on Sustainability
- EU Green Deal





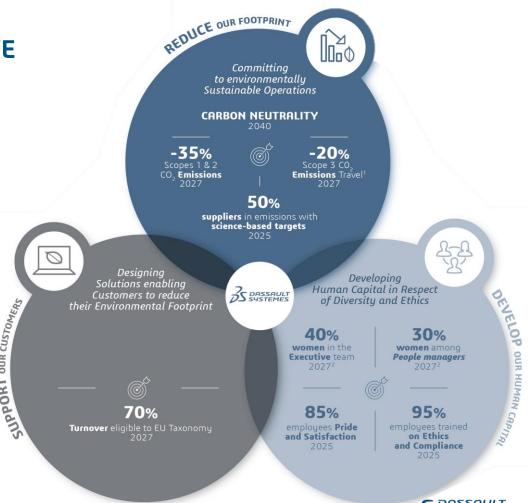
CHALLENGES DUE TO REGULATIONS

- Sustainability regulations will drive fundamental changes across supply chains and conventional manufacturing methods
- Companies face challenges in quickly adapting to sustainability regulations due to limited time and expertise
- Lack of established methods, processes & tools for evaluating compliance with sustainability regulations



OUR SUSTAINABILITY OBJECTIVE

Our Sustainability objectives guide us, while our governance processes maintain a high level of accountability within our organization on the topic of Sustainability.



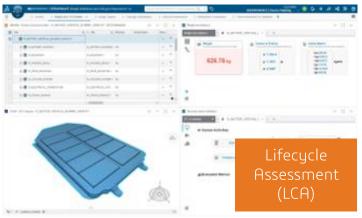
¹ Business travel and Employees' commute

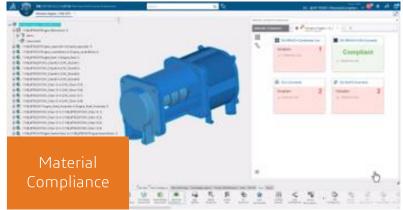
² Only applicable to the extent permissible under local and national laws

DS INDUSTRIAL EQUIPMENT SUSTAINABILITY LEVERS

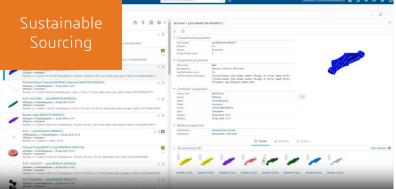
Reduce Spare part refurbishing Virtual transportation impact Refurbish spare parts of commissioning modernized asset on second hand Design product packaging Reduce environmental Reduce errors and waste marketplace easu to be recovered. during NI that could be impact of manufacturing Optimizing truck's filling ratio detected by 3D or VR. Modernization assessment Optimize manufacturing plants and to reduce transportation supply chain network to decrease emissions Define environmental impact of energy emissions and energy usage saving, dismantled parts and raw material recyclability Reduce waste related Eco Design with spare parts Design parts/assemblies ease to be Optimize spare part management dismounted/repaired/replaced during and recovery to reduce obsolescence service operations and inventoru waste Decrease energy consumption Predictive maintenance during ownership Optimize field interventions and Design elevators/escalators minimizing the part to be replaced using predictive energy consumed during the usage phase models and virtual twin Remote operations Reduce Sustainability driven Enhance remote control to reduce ergonomic risk project management field interventions Reduce injury risks Define target and monitor KPIs to during installation drive product development Reduce fleet and maintenance process emissions Reduce compliance risk Optimize maintenance fleet Assess regulatory compliance in route and vehicles to reduce different KGs emissions

ECO DESIGN OFFERINGS











A CUSTOMER REFERENCE STORY



ABOUT CSI ENTWICKLUNGSTECHNIK

PEOPLE. TOOLS.

WE ARE CSI ENTWICKLUNGSTECHNIK.

SUSTAINABILITY | SYSTEMS ENGINEERING MOBILITY | ENGINEERING | SOLUTIONS

LIGHTWEIGHT | REQUIREMENTS ENGINEERING
BEV | MEMBER OF IMSE® ECOSYSTEM | PROJECT LEADERSHIP
DIGITAL ENGINEERING | FMEA | SOFTWARE DEVELOPMENT
CONCEPT TO SERIES | INTEGRATION

1995 FOUNDED

580 EMPLOYEES

9 LOCATIONS









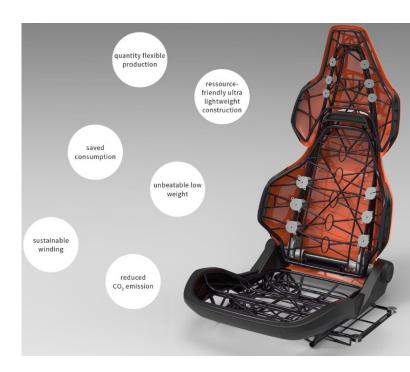






THE BUSINESS OBJECTIVE

- Development of "Green Products" for Auto OEMs
- Necessity to embed LCA into the early stages of the product development process
- Differentiation on the market





COMPREHENSIVE LCA SOLUTION TO MEET THE OBJECTIVE



A CUSTOMER TESTIMONY

• In our view, Dassault Systèmes' cloud-based sustainability offering stands out from conventional LCA tools thanks to its interface with multi-CAD design tools including CATIA. It's easy to handle and concept comparisons are visual, so they are better communicated to the customer. With everything we need available via a single platform, we can maintain our position as a trusted partner for OEM customers, helping them develop highly sustainable products.

> - **Anastasia Federov**, Sustainability Manager, CSI



KEY MESSAGES

- Adopt Eco design / Lifecycle Assessment as a part of your sustainability kit
- Partner with us on the topic of Eco design
- Together we can make this world better and sustainable



Scan me!

Your contact for further questions : <u>Gopalkrshna.bhat@3ds.com</u> <u>LinkedIn</u>







