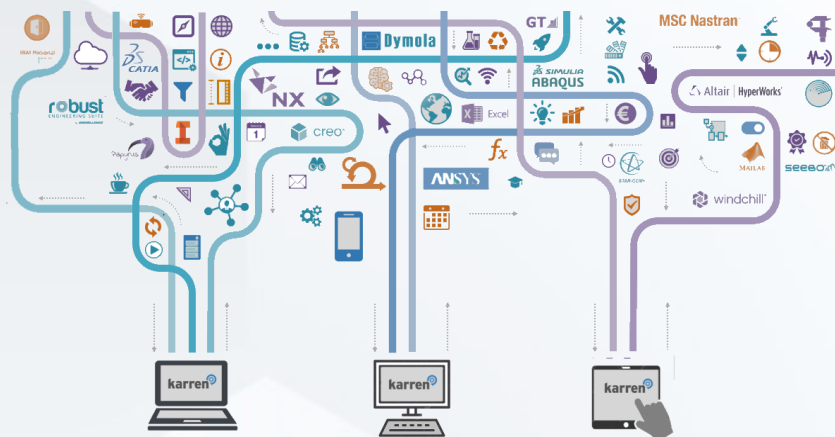


karren[®]

DATA INTELLIGENCE FOR COLLABORATIVE ENGINEERING

THE UNIQUE TOOL FOR
COLLABORATIVE DESIGN
OF COMPLEX SYSTEM



Speed up your project

Based on a small and relevant set of simulations, identify key design drivers quickly and predict behaviours when introducing changes



Increase Product Value

Easily explore the correct design space to select optimal solutions closing on all criteria simultaneously: performance, safety, cost, compliance



Embrace Complexity

Manage complex situations while helped by quick analysis of numerous and competing information



Digital Product Simulation

INDUSTRY LEADER

DPS is a player in digital continuity recognized for its know-how integrating simulation within the design process of the design of industrial products.

We have a solid expertise in CAD/CAE integration, process automation, system modeling & simulation and design optimization.



CUSTOMER LOYALTY

Our engineers are experienced at both design and simulation, providing our customers with a unique set of skills to succeed in their developments.

PSA, Renault, Airbus, Ford, Honda, Safran have been trusting us for the past years.



CONTINUOUS INNOVATION

R&D is key to our strategy and for us contributes greatly to the drive to propose innovative solutions to our customers.

For the past 10 years 'Le Lab' at DPS has been exploring new scientific and technological ideas in fields such as Industry 4.0, data mining, data analytics, I.A. ...



STRONG OFFER IN SERVICE

DPS offers services including consulting, technical support, training, software customization and edition ...

With a strong background in mechanical engineering, our teams are experienced in domains such as stress, electrical, electronics, firmware/software, thermal & fluid dynamics, CEM modeling and optimization.

A COMPLEX PROJECT: THE ELECTRICAL AIRPLANE

HETEROGENEOUS TOOLS:

- CAD & CAE
 - Design & Manufacturing
- 3DS & Siemens
 - System modeling & Simulation
- Mechanical & Electrical

MULTIPLE DISCIPLINES

Aero - Fluid Dynamics

Design

Electrical Engine

Flight Mission

Battery

MULTIPLE FUNCTIONS

CAPTURE KEY DATA

Only what is necessary

Battery

- Total Energy (Autonomy)
- Energy Density

Aero-Fluid Dynamics

- Drag
- Lift

Design

- Win Span
- Fuselage Length
- Wing Surface

APPLY CONCURRENT ENGINEERING

- Support consistency checks
- Take decisions and track rationales
- Propagate choices and assess impact

Electrical Engine

- Fan profile, thrust
- Engine Efficiency
- Engine Power

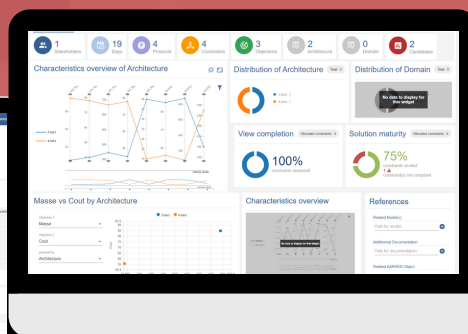
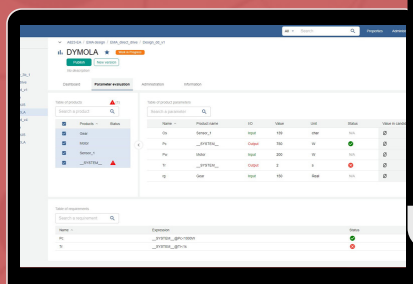
Flight Mission

- Speed
- PAX Number
- Altitude
- Flight Duration

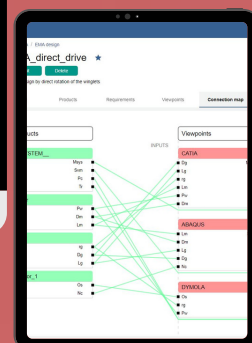


Make decisions and go to production faster

Find optimal trade-off



Compare alternatives against value/objectives



Analyse and assess each alternative