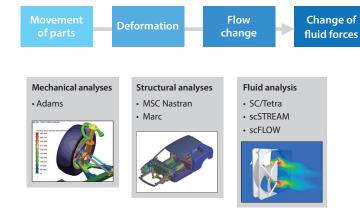
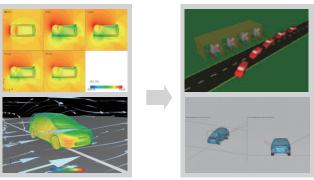
# Integration of multidisciplinary analyses – from materials to systems

# Co-Simulation with MSC Software Products

### More Realistic Coupled Fluid – Mechanical – Structural Analyses

Capturing movement and deformation more precisely and expressing boundary conditions in fluid analyses with more reality.



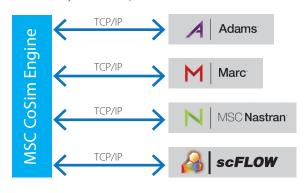


Analysis of aerodynamics characteristics per yaw angle

Assessment of crosswind stabilization in consideration of aerodynamics characteristics

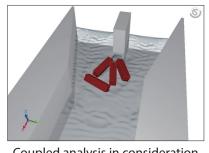
#### Co-simulation platform

The platform for coupled analyses with MSC mechanical and structural analysis solvers provides seamless co-simulation.



#### **Co-simulation using FMI**

Co-simulation using FMI a tool independent standard of 1D co-simulation interface.

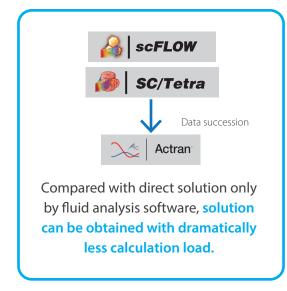


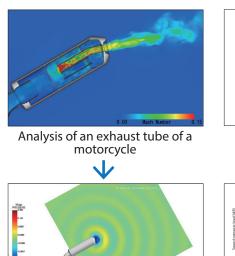
Coupled analysis in consideration of collision of driftwood

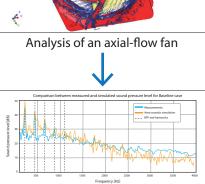


## Co-Simulation with Actran, Acoustic Analysis Software

scFLOW and SC/Tetra are used to create fluid sound sources and Actran is used for propagation analysis of sound waves.







Acoustic analysis using fluid analysis results as a sound source