

# **IACMI 3.7 – Reduction of CO2 Emissions Through Lightweight Body Panels**

# Development of a full SMC Class A capable Liftgate

















### Goal / Motivation

- Weight reduction of > 30%
- Complexity reduction (part consolidation)
- Successful demonstration e-coat + Class-A surface finish
- Demonstration of tool investment reduction
- Establishing and qualifying of regional supplier base

#### Solution

- Full-SMC Design (for manufacturing-informed performance)
- Structural SMC compound for inner part
- Class-A SMC Compound for outer part

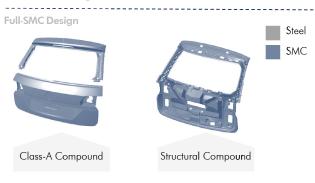


#### Status

- Material development finished and material cards created for manufacturing-informed performance design
- Part design and simulation completed
- Tool design, tool build and successful tool tryout finished
- Production process evaluated and prototype parts molded
- Business case created and evaluated
- LCA started



**Current Steel Design** 



## **Next Steps**

– July 2019	Completion of the assemblies (trimming, bonding, priming)
– August 2019	Paint trials and Class-A surface evaluation at Volkswagen Plant Chattanooga
– September 2019	Performance testing at Volkswagen R&D headquarters in Wolfsburg Germany and at development center Puebla, Mexico
– October 2019	Start weathering test at proving ground in Arizona

Project phase: SCOUTING EXPLORATION FEASIBILITY TRANSFER