

"F600 HYGENIUS" exhibit Case Study

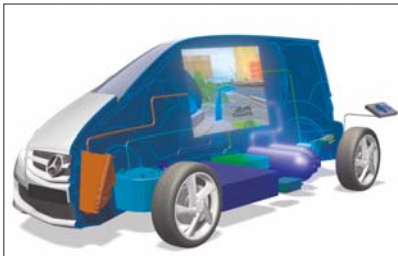
At IAA 2007 DaimlerChrysler has unveiled a new technical exhibit supporting technical staff in their explanation activity referred to fuel cell technology and the related future perspectives. The technical exhibit is based on the "F600 HYGENIUS" research-vehicle, which features all the most recent innovations - including 4 stacks, ETC, 700 bar H2 tanks, rear-wheel drive, optimized cooling system, etc; all integrated into a purpose-design layout. The interactive exhibit consists of a real chassis, the complete fuel cell system components and half car body closed by a central wall where a 50" screen is also installed. On the screen several animations can be played. Over a dozen animations -in English and German- can be selected by the visitors using a touch screen. The animations describe the components of the fuel cell system and explain how they work. Protoscar had the overall responsibility of this project starting with the proposal of the exhibit itself, through the development and realization of the physical exhibit as well as for the definition and production of the animations

The project was done in 3 months.

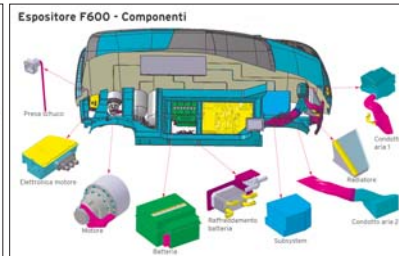
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Protoscar

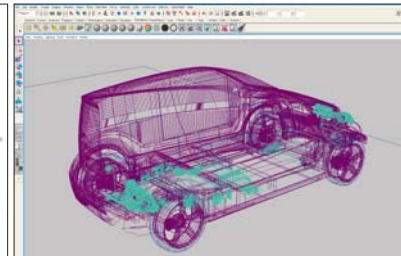
3D DIGITAL SOLUTIONS



Rendering for concept presentation



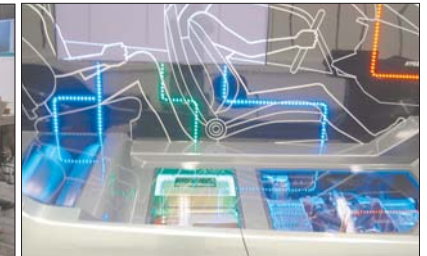
F600 exhibit: main components to be shown



3D modelling for manufacturing



Body construction (glassfiber)



Real physical components: stack, system, battery, E-motor, cooling system, tank system



Interactive touch-screen interface for the animations selection



Animation-introduction by "virtual-to-real" presenter



Technical explainer illustrating the FC technology by using the exhibit



Future vision 2030, first shown at IAA'07 in Frankfurt



All the technical maintenance equipment is hyded by the half car bodyshape of the "plug-and-play" exhibit