

Integrating driver assistance systems into the entire product range is on the agenda of many car manufacturers. Given the complexity of surrounding field sensors, these systems development costs are not acceptable for vehicles below the mid-size category.



From the aspect of keeping development costs down while maintaining function quality and brand identity, IAV's new scene-based function development process can provide a key to reconciling this tradeoff. It is based on defining simulation scenarios through a set of scenes derived from a requirement catalog. Individual scenes are sequences of movements of the objects and participants involved in a driving situation. They provide a common base that can be used at various stages in the functions development process. Synthetic scenes come with synthetic surrounding field sensors which model a large number of real-life sensors irrespective of the underlying technology(for example radar, laser, or camera). This means that uniform requirements can then be placed on different sensor suppliers.

The IAV scenario-based function development approach achieves high process stability and paves the way for affordable driver assistance system integration.