# MotionWise

With an increase in rate of technological improvement it there a lot of instances where it is possible to see improvement and intense complifications in private and public sector where with increasing complifications it is mandatory to level up the system according to needs. But requirements and limitations in embedded systems require central observer system.

MotionWise is a safety software platform aiming at supporting highest levels of automated driving. It ensures that all the parts of a complex real-time computer system interact in a predictable and aligned way by bringing freedom from interference. MotionWise is based on a time-aware approach, a generalized variant of a time-triggered technology, which allows for deterministic behavior of the entire system. It complies with ASIL D (Automotive Safety Integrity Level), the highest safety level of ISO 26262 – Functional Safety for Road Vehicles standard.

From the perspective of software, we can say that the software “thinks in layers”. If we define them top-down as the application layer, safety platform layer, operating system layer and a communication protocol layer, roughly speaking.

With its Platform Integration Services: Automotive, Communication, Time, AD Support, Development, Safety and Scheduling services, MotionWise ensures a homogenous environment for heterogeneous elements of different safety criticalities.

# **System characteristics:**

* Reactive
* Real time
* Dependable
* Distributed