

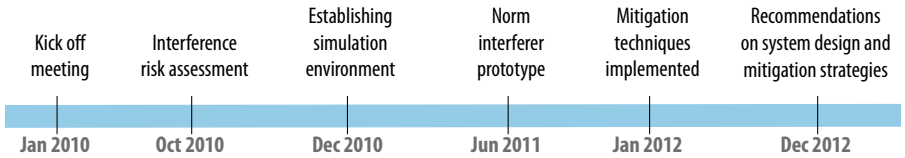
■ Motivation and Objectives

The MOSARIM project's main objectives are the investigation of mutual vehicular radar interference and the definition and elaboration of effective countermeasures and mitigation techniques. Automotive radar operation frequencies from 24 GHz to 79 GHz are within this project's scope.

The objectives in more detail are:

- Assessment of the actual radar interference potential and impact with off-the-shelf radar sensors already available on the market,
- Elaboration of comprehensive and realistic simulation models regarding radar interference on different levels,
- Specification and implementation of a vehicular norm radar interferer as a standard benchmark and test tool for OEMs and Suppliers,
- Development of commonly applicable interference countermeasures to reduce mutual radar interference disturbance,
- Generation of a Design Rule Book containing recommendations and guidelines for vehicular mutual radar interference mitigation.

■ Project Plan, Milestones and Deliverables



■ Technical Approach

- Simulation-based studies on interference effects.
- Real world campaigns on test tracks and in laboratory for research on interference mitigation effects and their impact.



Static radar interference measurements on test track (05/2011)

■ Achievements

WP1: Specification of scenarios, market/ technical survey and impact on ASIL finalized.

WP2: Simulation models and radar interference mechanisms operational in first simulation runs.

WP3: Interference countermeasures assessed regarding performance, robustness, etc.

WP4: First norm interferer prototype ready. Several test track and laboratory measurement campaigns conducted and analyzed in-depth.

WP5: Not yet started.



Dynamic mutual interference measurements (05/2011)

Budget	4.8 M€	Funding	2.97 M€
Duration	36 months	Start	January 2010
DG	INFSO / G4 – ICT	Contract n°	ICT-2010-248231
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Partners	12 partners, among them Daimler, Volvo, Bosch, Continental, Hella, TRW and Valeo		
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