

Giving Eyes and Ears to the Car of the Future

The Austrian-managed Car2TERA project will develop radar systems to be used in self driving vehicles

January 15, 2019

VILLACH, AUSTRIA—Engineers from Austria, Sweden, Poland, Italy and Spain are now underway in developing the latest radar and sensing equipment for the cars of tomorrow. European Union's Horizon 2020 funded Car2TERA project has recently launched in Villach, Austria and promises to keep Europe in the car sensing technology spotlight.

Over the next 39 months, they will explore the use of the sub-terahertz frequency spectrum for sensors inside the vehicle. Today's car sensor technology is simply not capable of safely processing the signals required for assisted driving and autonomous driving. The sub-terahertz frequency spectrum, 150 to 330 Gigahertz, opens many doors as it is perfectly suited for this kind of radar communication, but the micro devices that transmit, receive and network at that range are still being developed. That's where the Car2TERA project comes in.

Project partners will construct and demonstrate a prototype of an in-cabin passenger monitoring system for individual and real-time adjusted crash mitigation measures. This effort will leverage recent European advances in semiconductor, microsystem and nanoelectronics technologies.

With European car module manufacturers holding a market share of 79% on car radars, the €4.2M Car2Tera project is poised to keep Europe at the edge of car sensing technology. Discoveries made during this project will aid the design and manufacturing of complex equipment intended to keep drivers and passengers as safe as possible while traversing roads across the globe.

About Technikon:

Technikon is a private research service and engineering company in Austria which manages multinational teams in the organization, execution and assessment of research projects. Technikon is Europe's leading private company coordinating and disseminating technology-based cooperative European research projects.

For more information on the Car2Tera project visit our web site or contact the coordinator directly:

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The Car2TERA project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement number 824962.