



VIBRER TIRE, MOSTAR

Project title	Vibrer Tire	
Sector	Innovations sector, Automotive sector	
Location	City of Mostar, Building a future factory is planned in Mostar. The location is suitable because of the proximity of railway and sea ports, as well as highway Vc.	
Project status	Project in development	
Innovation description	During emergency braking of the car or when the ABS system is activated, by way of its electrical system the car's central computer unit sends an electrical voltage to the tire 1, or to the piezoelectric ultrasonic generator 4-5 integrated in the internal structure of the crown 2 of the tire 1 causing an immediate ultrasonic mechanical vibration on the surface 6 of the tire. The tire ultrasonic vibration has the effect of separating the liquid 7 and the surface 6 of the tire 1 resulting in the tire dry tread 8 and 9 of the tire 1 if breaking by car is done on the rain-soaked asphalt 10 (Fig.3). Moreover, when activating the car's ESP system and when targeted braking is performed by an individual wheel, the ultrasonic vibration appears on the surface of that tire by which braking is performed. The same function of this innovative tire may be applied during the activation of ASR system.	
Intellectual property, Patent	Patented innovation in Zurich This invention relates to tire, piezoelectric ultrasonic generator, electrical oscillator, rotation sensors and batteries, and according to the International Patent Classification is classified as B60C 5/00, B06B 1/06, H01L 41/04, B60T 1/00.	
Estimated total investment cost	1 phase prototype 250 000 - 450 000 EUR made in ADAC, Fraunhofer	
Inputs required from foreign partner	Value	Description
	10-20% investor	For developing and improving the project
Form of cooperation with foreign partner	Financial	Technical
	Joint venture - Partnership	Production of revolutionary tire
Supporting information available	For additional information about this project, please contact FIPA either by e-mail: fipa@fipa.gov.ba or phone number: +387 33 278 080.	