

Partner search form

Date:	October-20-2017
Valid until:	December – 15 -2017
Full name of organisation:	fuchs photonic solutions Fraunhofer Institute of Optronics, System Technologies and Image Exploitation
Organisation acronym (abbreviation):	fps IOSB
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Former participation in EU research projects as Co-ordinator:	EMPHASIS, HYPERION, CHEQUERS More details can be found at
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Project idea

Project title:	Multi-Hazard Open Platform for Disaster Management
Acronym:	MUHAP
Project type:	Bi-National project South Africa –Germany funded by German ministry of research and education BMBF: https://www.bmbf.de/foerderungen/bekanntmachung-1416.html
Short description of project idea:	<p>Based on the modular open platform established at Fraunhofer IOSB a mobile cost-effective disaster management system will be developed for the needs of South Africa.</p> <p>The mobile system will support first responders and action forces in gathering information about the disaster from various sources. Using data fusion the information will be processed to establish a fast overview about the disaster scenario.</p> <p>Information include images generated by a drone swarm and other sources. Images in the visible spectral band as well as in infrared will be generated. Individual reports from any point in the scene as well as information of weather services can also be included.</p> <p>Wind and rain information, water level and similar information will enter continuously into a two-dimensional prediction model for wood fires and river flooding.</p> <p>The status of water quality in case of an industrial disaster located at a river can also be monitored.</p>
Expertise:	<p>Fraunhofer IOSB together with institutions such as German THW, DLR and others established an expertise in disaster management. See for example:</p> <p>http://planeterde.de/news/katastrophenmanagement-bei-waldbraenden/</p> <p>https://www.iosb.fraunhofer.de/servlet/is/26790/</p> <p>https://www.iosb.fraunhofer.de/servlet/is/16952/</p> <p>https://www.iosb.fraunhofer.de/servlet/is/21201/</p> <p>Project management by fuchs photonic solutions: https://www.linkedin.com/in/frank-fuchs-7a864a11b/</p>

Profile of partner sought

Type of partner:	National Disaster Management Center or similar institutions South African Weather Service Companies with expertise on air monitoring sensors, water monitoring sensors. Companies with expertise on sensor platforms for imaging techniques and any type of sensors (drones, aircrafts and others)
Role to cover in the project:	During the preparatory study definition of the specific needs of SA for the future main project Link to further project partners, industrial partners, endusers, such as fireworkers, police and other action forces
Country / Region:	South Africa, e.g. Pretoria, Johannesburg, Cape town, other places
Start of collaboration:	The project is organized in two steps: This year, by December 15, 2017 a white paper for a preparatory study must be presented. The maximum support for this study is 60.000 Euro for the whole consortium. The support comprises cost for workshops and travel costs for preparatory meetings. The proposal for the main project must be presented one year later by December 15, 2018 . The main project will last about three years. Financial support can be the range of several Mio Euro.
Expertise required:	Disaster management, sensor fabrication (air monitoring, water sensors), fabrication of sensor platforms (drones and others), data fusion, imaging techniques. System engineering.

I agree with the publication of my data!

Please fill-in in English and return to contact@esastap.org.za