



**INACHUS: Technological and Methodological Solutions for Integrated
Wide Area Situation Awareness and Survivor Localisation
to Support Search and Rescue (USaR) Teams**



Press Release

Valabre, Gardanne, France, October 2018

The INACHUS EU-funded research project, working on developing innovative tools to improve Urban Search and Rescue (USaR) Operations, presents its findings.

The European research project INACHUS presented its outcomes through a dedicated conference organised in Valabre, France on the 16th of October 2018. The conference was co-located with the INSARAG Africa Europe Middle East regional meeting, which started the next day and where INACHUS project had a stand.



INSARAG AEME meeting in Valabre, October 17-18 2018.

INACHUS is a Large-Scale Integrated project funded by the EU's 7th Framework Programme for research, technological development and demonstration that runs from January 2015 to December 2018. The project is implemented by 20 partners coming from 9 EU members and 2 associated countries.



INACHUS Final event in Valabre, October 16, 2018.

INACHUS will achieve a significant time reduction related to Urban Search and Rescue (USaR) phase by providing wide-area situation awareness solutions for improved detection and localization of trapped victims assisted by simulation tools for predicting structural failures

and a holistic decision support mechanism incorporating operational procedures and resources of relevant actors.

During the **Final Event** the participants had the chance to get informed about the results of the fully integrated INACHUS system, to watch demonstration videos and to network with the project's partners and invited stakeholders.

The **INACHUS tools** that were presented during the Final event were:

- **Robot** to search through rubble, including sensors/radars for detection of signs of life: slight motions, various gases, body heat, camera, microphone, speaker.
- **Radar system** to detect motion through the rubble.
- **Seismic sensors** with 'heat map' interface to visualize sounds detected in the rubble;
- **Common Operational Picture** tool integrating data from other tools to improve sense making.
- **Digitalized INSARAG forms**; aiding coordination, prioritization and decision making
- **Wide area assessment tools** with UAV;
- **Mapping tool, and Collapse modelling and voids localization**;
- **Secure and autonomous communication.**

Key representants from USAR teams in Europe (Germany, The Netherlands, Italy, France, Greece) were present and participated actively to the conference and the round table on the subject of "New technologies in the USAR world". Fruitful exchanges and contacts are the main outcome of this conference.

After the INACHUS Final Event, a final field demonstration will be held along the French and Italian border in November 2018 and will demonstrate the fully integrated INACHUS system.

For more information about INACHUS project please visit our website (<https://www.inachus.eu/>) or contact the Project Coordinator **Dr. Angelos Amditis** (a.amditis@iccs.gr), ICCS Research Director and Head of I-Sense Group.

Follow INACHUS' latest progress on social media:

Facebook (<https://www.facebook.com/pages/Inachus-USaR-Research-Project>)

Twitter (<https://twitter.com/InachusUsar>)

LinkedIn (https://www.linkedin.com/grp/home?gid=8385769&trk=my_groups-tile-grp)

YouTube (<https://www.youtube.com/channel/UCBz08Jf7tVT08x5LevztXcQ>).

Project Information

Duration:	1 January 2015 - 31 December 2018	
Total cost:	13.944 267,76€	
EC contribution:	9.885.037,58€	
		<i>"This project has received funding from the European Union's Seventh Framework Programme for rese</i>
Coordinator:	Institute of Communication and Computer Systems, (ICCS), Dr. Angelos Amditis	
Partners:	<ul style="list-style-type: none"> • Institute of Communication and Computer Systems (ICCS), http://i-sense.iccs.ntua.gr/ • EXODUS S.A (EXUS), , https://www.exodussa.gr/ • Totalförsvarets Forskningsinstitut (FOI), http://www.foi.se • Crisisplan B.V. (CBV), http://www.crisisplan.nl • Office National D'études Et De Recherches Aérospatiales (ONERA), http://www.onera.fr • IK4-TEKNIKER (TEK), http://www.tekniker.es/ • Fraunhofer Institute for High-Speed Dynamics, Ernst-Mach-Institut (EMI), http://www.emi.fraunhofer.de/ • Cinside AB (CINSIDE), http://www.cinside.se • Applied Science International Europe SRL (ASI), http://www.appliedscienceint.com/ • DIGINEXT (DXT), http://www.diginext.fr • Laurea University of Applied Sciences (LUAS), https://www.laurea.fi • Entente Pour la Forêt Méditerranéenne (EPLFM), http://www.entente-valabre.com/ • Specialistisch bijstandsteam (USAR.nl), https://www.usar.nl/ • Stiftelsen SINTEF (SINTEF), http://www.sintef.no/ • University of Twente, Department of Earth Systems Analysis, Faculty of Geo-Information Science and Earth Observation (ITC), http://www.utwente.nl • Schübler-Plan Ingenieurgesellschaft MBH, ScPI, http://www.schuessler-plan.de • Södertörns brandförsvärsförbund (SBFF), http://www.sbff.se/ • TELINT RTD Consultancy Services LTD (TELINT), http://www.telint.eu/ • BYTE COMPUTER S.A. (BYTE), http://www.byte.gr • Micro2Gen (M2G), http://micro2gen.com/ 	

