



ANTISUPERBUGS

Grant Agreement: 688878



PROVINCIA AUTONOMA DI TRENTO



Project funded by the EU Horizon 2020 Programme



Project Abstract

Each contractor is required to complete the abstract below, that will be transmitted to EC and published to inform the scientific community and the market about the ANTISUPERBUGS development.

*The abstract should be completed by the lead contractor, with input from any joint contractors, subcontractors or project partners as appropriate. Please answer the questions in the spaces provided. Try to keep your answers succinct, **very focused on ANTISUPERBUGS challenge (as expressed in the Request for Tenders), on ANTISUPERBUGS research and development objectives, activities and expected outcome**, and to clearly explain the innovation under development. If necessary, to clarify the proposed advancement and (additional/ new) investment in R&D under ANTISUPERBUGS project, provide info about the baseline and background.*


Please make sure that in setting up the abstract, the wording and terminology used are consistency with the legal framework of the PCP (pre-commercial public procurement) and the signed Framework Agreement and Phase contract:

- PCP awards R&D services contracts and targets situations that require radical innovation or R&D and for which there are typically no solutions on or close to the market yet.*
- R&D does not include commercial development activities such as quantity production, supply to establish commercial viability or to recover R&D costs*
- R&D does not include integration, customisation, incremental adaptations and improvements to existing products or processes.*

ANTISUPERBUGS Phase 3 – Contractor details & project abstracts

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Contactor Details	Type/ size of legal entity	Place of performance of contract activities	Logo
<p><u>Contractor 1 (Main contractor)</u></p> <p>Pulso Ediciones, S.L. Rambla del Celler, 117-119 08172, Sant Cugat del Vallès, Barcelona, Spain Contact person: Ana Genova +34 663 301 655 a.genova@pulso.com</p>	SME	<p>% of contract value allocated to contractor [PULSO EDICIONES S.L.]: [19] %</p> <p>% of activities for the contract performed by contractor [PULSO EDICIONES S.L.] in EU Member States or countries associated with Horizon 2020: [100] %</p>	 <p>GRUPO PULSO a company of Evidence Group</p>
<p><u>Contractor number 2</u></p> <p>NuWave Sensors Ltd., 32 Walnut Avenue, Drumcondra, Dublin 9, Ireland</p> <p>Contact person: Lisa Ainsworth +353 87 2350965 lisa.ainsworth@nuwavesensors.com</p>	SME	<p>% of contract value allocated to contractor [NUWAVE SENSORS LTD.]: [28] %</p> <p>% of activities for the contract performed by contractor [NUWAVE SENSORS LTD.] in EU Member States or countries associated with Horizon 2020: [100] %</p>	
<p><u>Contractor number 3</u></p> <p>Paperdrop Diagnostics S.L., Avinguda de Can Domènech s/N, Edifici Eureka 08193, Cerdanyola del Vallès, Barcelona, Spain Contact person: Marc Gallegos, +34 605 789 166 mgallegos@paperdropdx.com</p>	SME	<p>% of contract value allocated to contractor [PAPERDROP DIAGNOSTICS S.L.]: [11] %</p> <p>% of activities for the contract performed by contractor [PAPERDROP DIAGNOSTICS S.L.] in EU Member States or countries associated with Horizon 2020: [100] %</p>	
<p><u>Subcontractors (if applicable)</u></p> <p>ION-GAS GmbH Konrad-Adenauer-Allee 11 44263 Dortmund, Germany Contact person: Dr. Chandru Hariharan +49-151-50826733 +49-231-9888 9678 c.hariharan@ion-gas.de</p>	SME	<p>% of contract value allocated to subcontractor [ION-GAS GMBH]: [18] %</p> <p>% of activities for the contract performed by subcontractor [ION-GAS GMBH] in EU Member States or countries associated with Horizon 2020: [100] %</p>	

<p>Subcontractors (if applicable)</p> <p>Dynamic Science S.L. Av. de Josep Tarradellas, 8-10, Planta 5ª, Puerta 4, 08029 – Barcelona Contact person: Reyes Prieto +34 618312143 r.prieto@dynasolutions.com</p>	<p>SME</p>	<p>% of contract value allocated to subcontractor [DYNAMIC SCIENCE S.L.]: [24] %</p> <p>% of activities for the contract performed by subcontractor [DYNAMIC SCIENCE S.L.] in EU Member States or countries associated with Horizon 2020: [100] %</p>	
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Project abstract (+/- 1000 characters aprox)

The aim of our solution, BUGWATCHER, is that it is able to detect three different types of bacteria (Clostridium Difficile, Klebsiella Pneumoniae and Multi-resistant Staphylococcus Aureus) in the hospital facilities, in humans and in any inanimate surface surrounding them.

Bugwatcher is formed by:

- *An **air monitoring device** that is able to detect the presence of the bacteria by monitoring 24/7 the air of any hospital space where the device is located.*
- ***Paper-based biosensors** that, from a saliva sample or a fomite's sample are able to detect the bacteria both in human and in any inanimate surface (fomites) from the hospitals' facilities.*
- *An **mVOC detector** that non-invasively identifies bacterial infections from human breath in a rapid manner.*
- ***A software platform** which can be integrated with the health information system of the hospital and receives all the alarms together with the geolocalisation of the bacteria whenever it is detected.*

Thanks to the geolocalization incorporated in the devices, the bacteria are geolocated at any time which help professionals make more accurate decisions related to the isolation and drugs' administration to the affected patients.

Previous EU funding

Is the project based on / a continuation of R&D activities that were previously funded by the EU?: **NO**