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Immerse yourself in the SYMBIOSIS Project

An innovative autonomous system for identifying schools of fish

Discover the environmental benefits of the distributed and large-scale monitoring of the underwater environment

The SYMBIOSIS system integrates acoustic and optical technologies without human intervention. The system is the product of an international scientific initiative under the EU's Horizon 2020 program. Real-time monitoring of schools of fish will inform the development of fishing policy and lead to enhanced protection of the marine environment.

In this video, the two research teams working at IMDEA Networks on the SYMBIOSIS project describe the role they play on this research initiative and why they consider it is environmentally relevant.

An international scientific initiative under the auspices of the European Union's Horizon 2020, project SYMBIOSIS is developing an autonomous system to identify schools of fish, including information about their size and movements in deep waters. The University of Haifa is leading the project, while two teams from IMDEA Networks Institute in Madrid are contributing to the development effort. The SYMBIOSIS system integrates acoustic and optical technologies that require no human intervention, and will be able to transmit real-time warnings to coastal stations.

The project will run until November 2020, and will offer novel solutions to the distributed and large-scale monitoring of the underwater environment, with a positive impact on marine biology research, conservation, and policy making for fisheries in Europe and worldwide.

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About Us

IMDEA Networks Institute is a **research organization on computer and communication networks** whose multinational team is engaged in cutting-edge fundamental science and technology. As a growing, English-speaking institute located in Madrid, Spain, IMDEA Networks offers a unique opportunity for pioneering scientists to develop their ideas. IMDEA Networks has established itself internationally at the forefront in the **development of future network principles and technologies**. Our **team** of highly-reputed researchers is designing and creating today the networks of tomorrow.

***Some keywords that define us:** 5G, Big Data, blockchains and distributed ledgers, cloud computing, content-delivery networks, data analytics, energy-efficient networks, fog and edge computing, indoor positioning, Internet of Things (IoT), machine learning, millimeter-wave communication, mobile computing, network economics, network measurements, network security, networked systems, network protocols and algorithms, network virtualization (software defined networks - SDN and network function virtualization - NFV), privacy, social networks, underwater networks, vehicular networks, wireless networks and more...*

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