

Laboratory for Underwater Systems and Technologies

Technologies



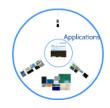
















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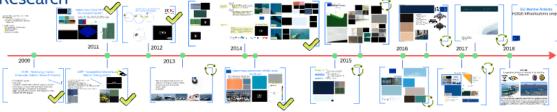








Research



Područja primjene













Motivacija

- oko 70% Zemlje je prekriveno vodom
 - 50-80% vrsta živi pod vodom, otkriveno tek 0.1% - 10%
 - · veliki izvor rudnih bogatstava
 - · izvor obnovljive energije

Izazovi

- agresivno okruženje pod utjecajem poremećaja: struje, valovi, vjetrovi
- opasno za čovjeka
- otežana komunikacija i navigacija

Autonomna bespilotna plovila











Active projects:



EUROPEAN PROJECTS

- H2020 FET Launchpad APAD
- INTERREG BLUEMED
- H2020 CROBOHUB
- H2020 Twinning EXCELLABUST
- DG-ECHO E-URready4OS
- H2020 Fire+ PLADYFLEET
- H2020 ROBOCOMM++
- H2020 FET SUBCULTRON



NATO PROJECT

NATO S4P MORUS



ONR-G PROJECTS

SPATEL



NATIONAL PROJECTS

CroMarX

Finished projects:



EUROPEAN PROJECTS

- FP7-ICT CADDY
- FP7-SME CART
- FP7-REGPOT CURE
- INTERREG SIOI
- DG-ECHO URready4OS
- FP7-INFRA EUROFLEETS2

1 NATO, 3 ONR-G, 4 national



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II



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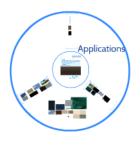




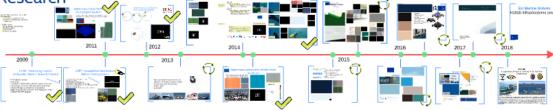








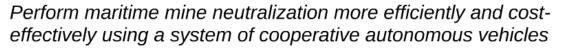
Research





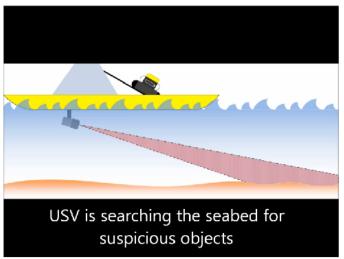
Autonomous Naval MCM Neutralization System

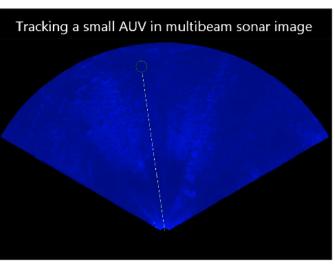




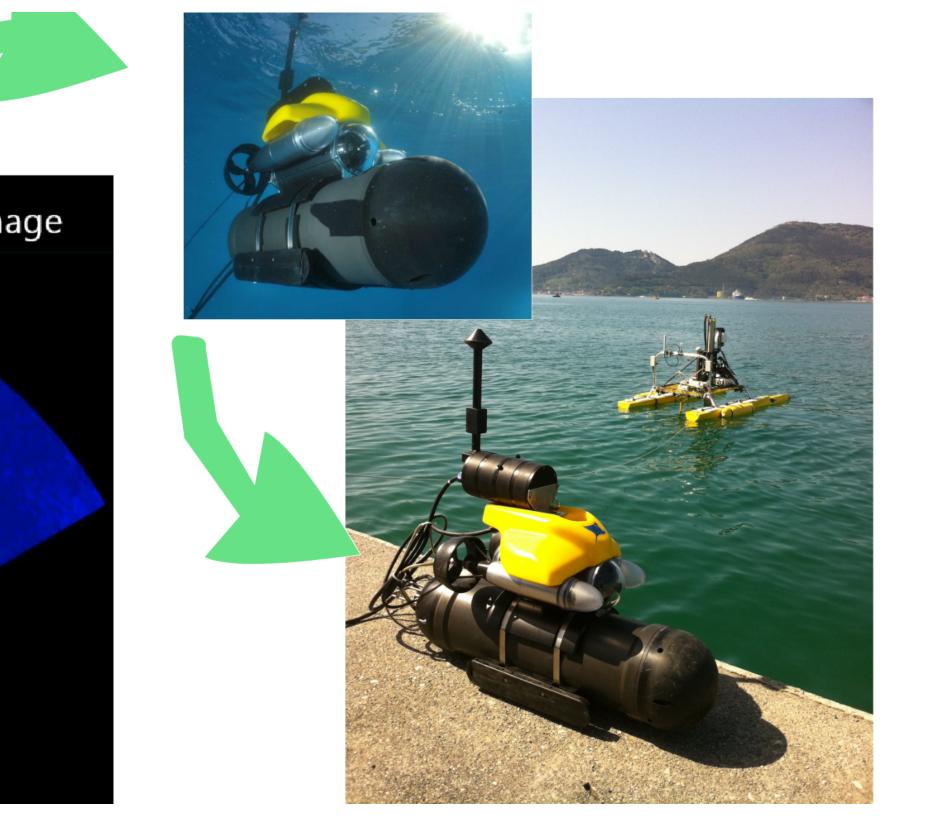












learning, interpreting, and adapting to the diver's behaviour and physical state









http://www.caddy-fp7.eu/

Cognitive Autonomous Diving Buddy

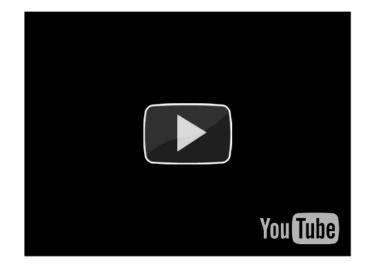
Key facts:

FP7-ICT Cognitive Robotics STREP with 7 partners

EU contribution: €3,7 million, (FER €709,000)

Duration: 36 months, starting 01/01/2014

Coordinator: UNIZG-FER







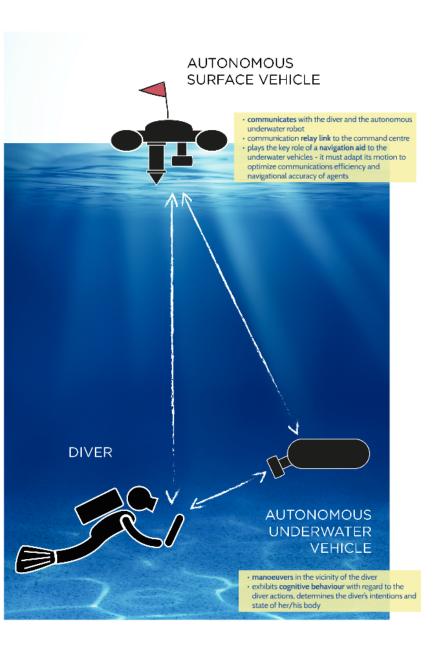












Set up symbiotic links between a human diver and a set of companion autonomous robots (underwater and surface).

By developing a multicomponent, highly cognitive robotic system capable of learning, interpreting, and adapting to the diver's behaviour and physical state



Cognitive Autonomous Diving Buddy

Key facts:

What

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FU contribution: €3.7 million (FFR €709.000)





H2020 FETPROACT-2-2014: Knowing, doing, being: cognition beyond problem solving

Submarine Cultures Perform Long-Term Robotic Exploration of Unconventional Environmental Niches



subcultron

Start date: 1st April 2015

Duration: 4 years

Total cost: EUR 3 987 650,75





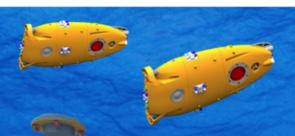


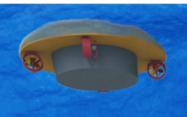




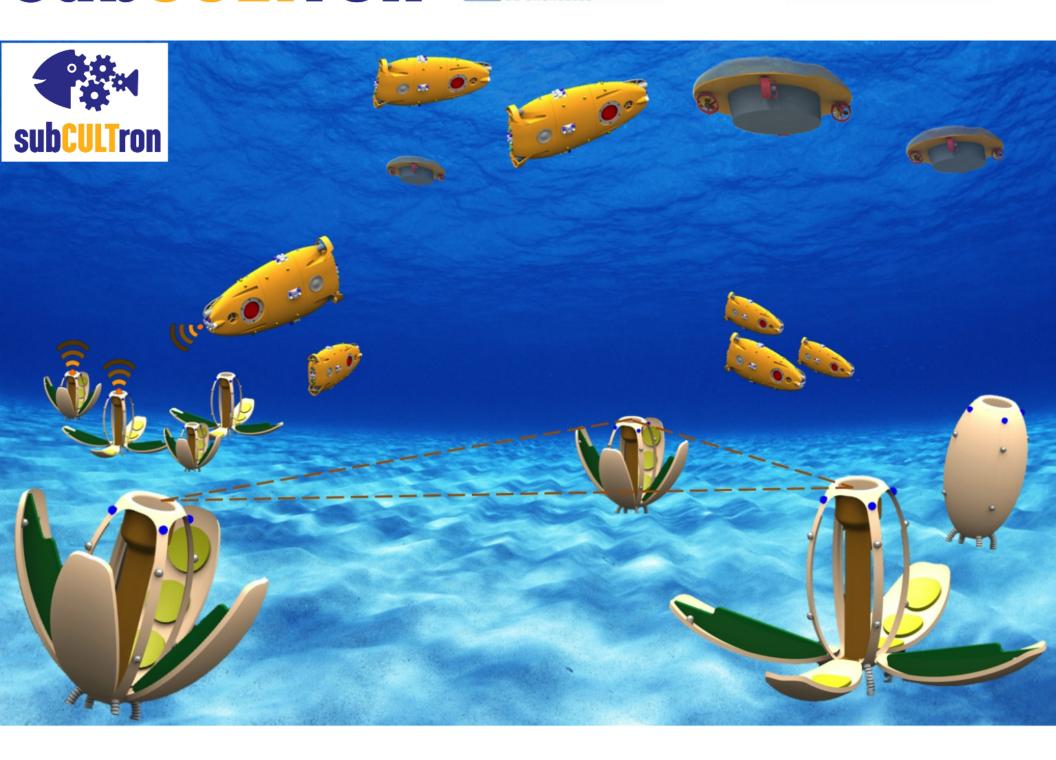














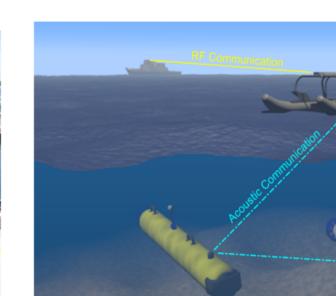
CUV-ME

Cooperative Unmanned Vehicles in the Maritime











Project objectives:

Develop **enhanced navigation capabilities for maritime vehicles** without use of expensive sensors i.e. find a cost effective means for navigation of multiple UUVs in **mine counter measure** (MCM) and **intelligence**, **surveillance and reconnaissance** (ISR) missions.

H2O **∽ROBOTICS**

VEHICLE

APPLICATIONS

CASE STUDIES

NEWS

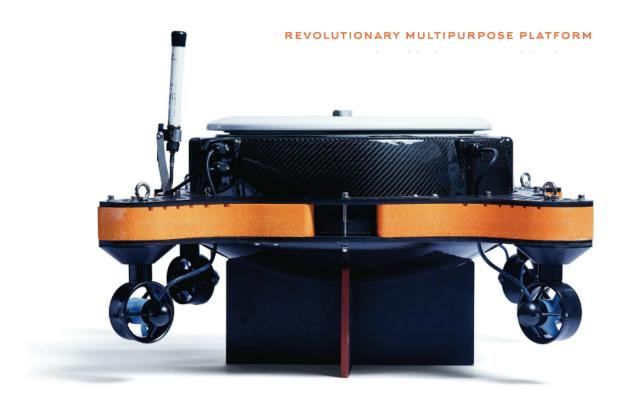
CONTACT

What is aPad?

heolye

Options

Contact

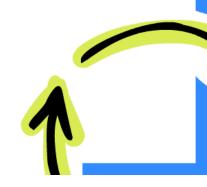




H2020 FETOPEN - FET Innovation LanchPad

aPad - smaller, lighter, smarter autonomous marine surface vehicle

Start date: 1st May 2017 Duration: 18 monthd Total cost: EUR 99 750





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