

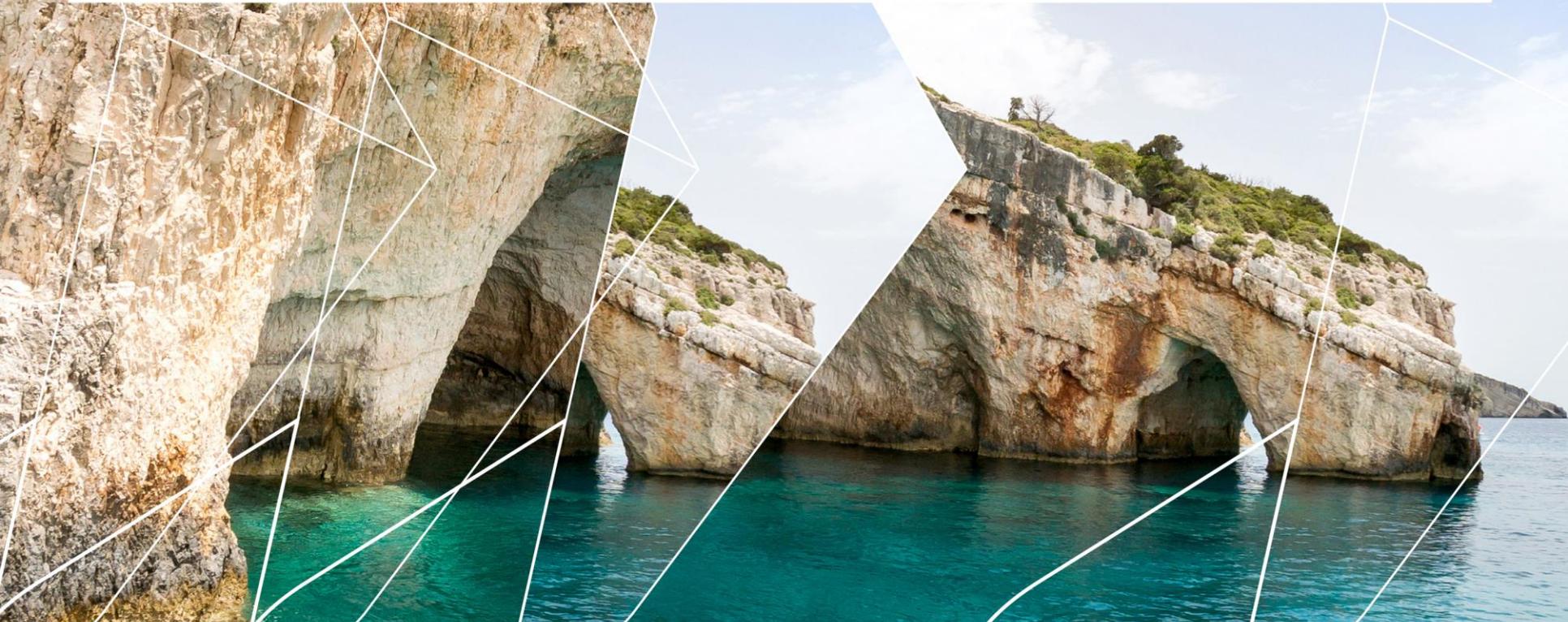


EU Strategy  
for the Adriatic  
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**EUSAIR**

## **SUSHI-DROP - Sustainable fiSHeries with DRONES data Processing**

Luca Vittuari - University of Bologna

7/7/2023/ Rimini





# Challenges and Innovations

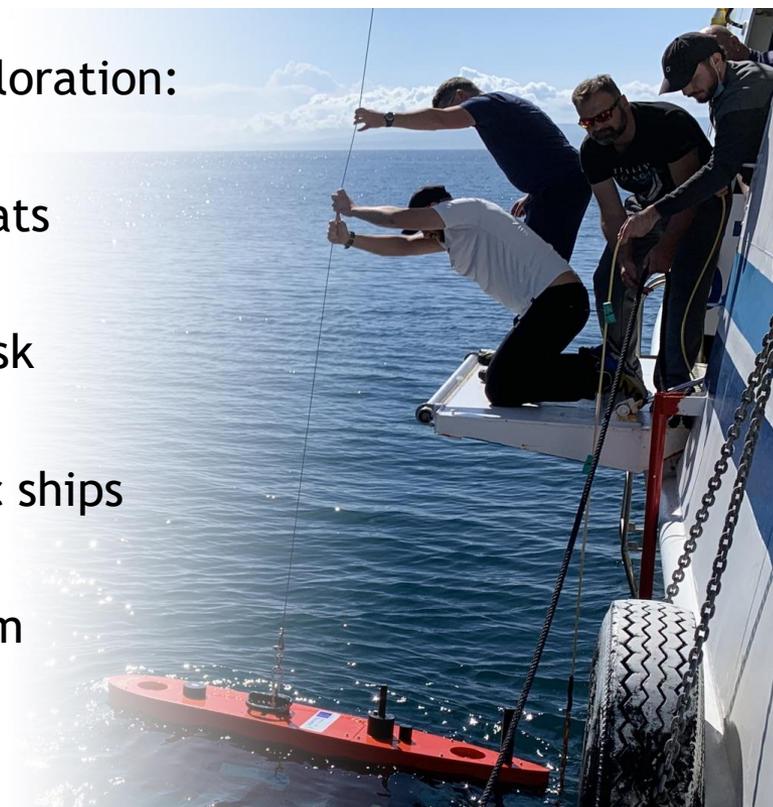
Using a "drone" in marine exploration:

Non-invasive survey for habitats

Unmanned Operation: Low Risk

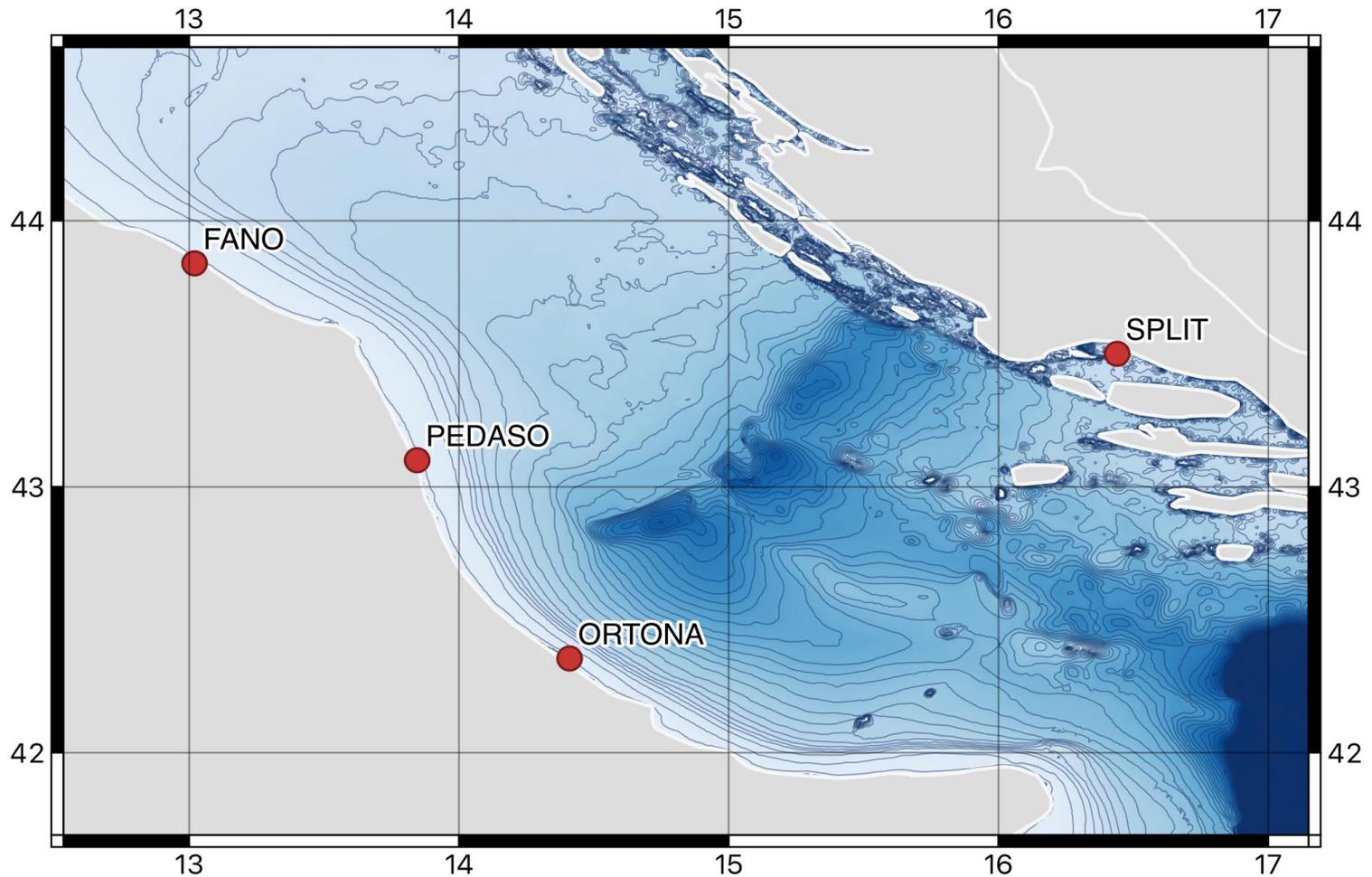
Cheaper use than specialistic ships

Reach areas deeper than 200m  
(unreachable by divers)



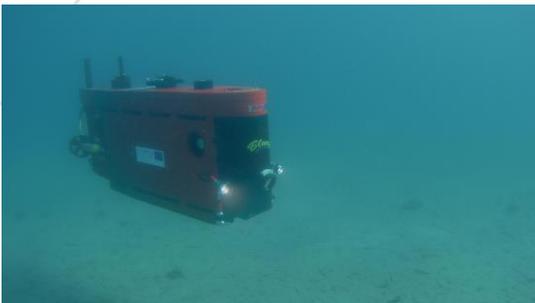
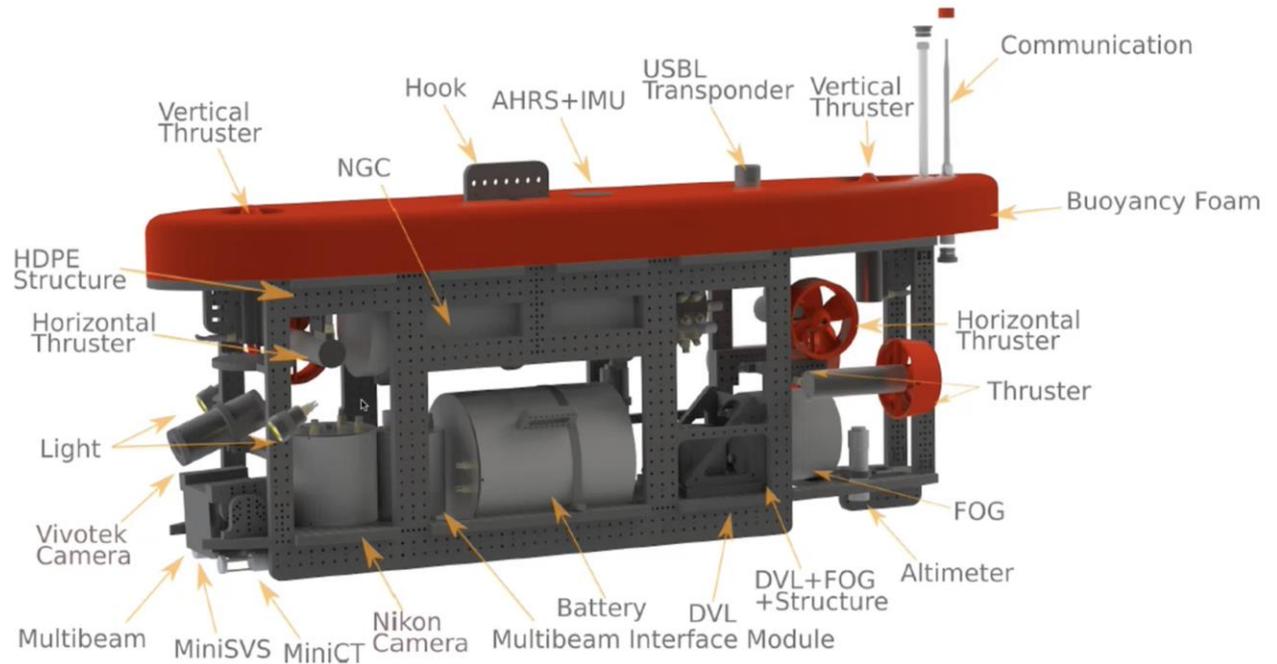


# Project Operations Area





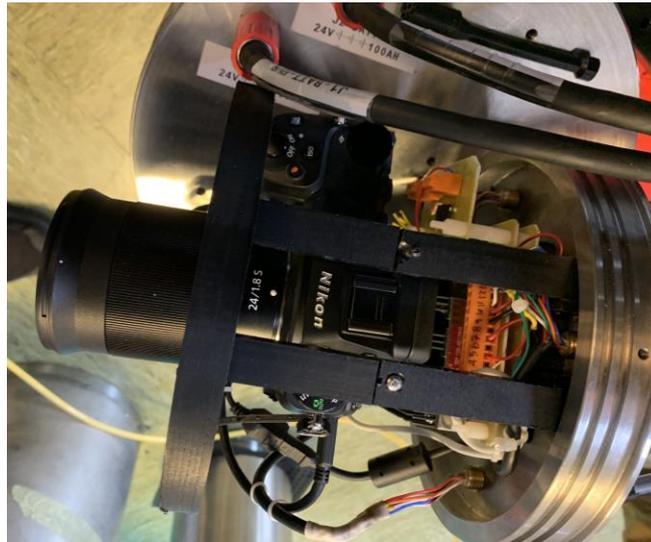
## Blucy is designed as an open and modular system Actual sensors configuration



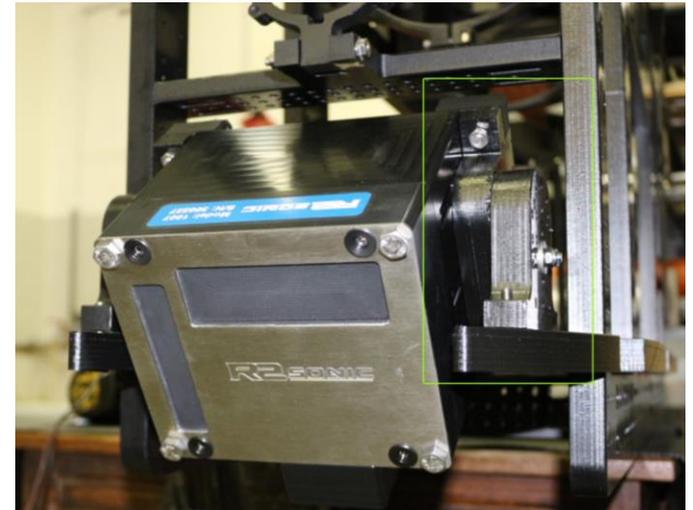
- Operating depth: up to 250m
- Weight: 210 Kg
- Mission time: up to 6 hours
- 2 Navigation Modes: ROV or AUV



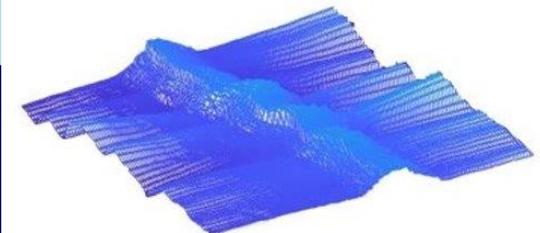
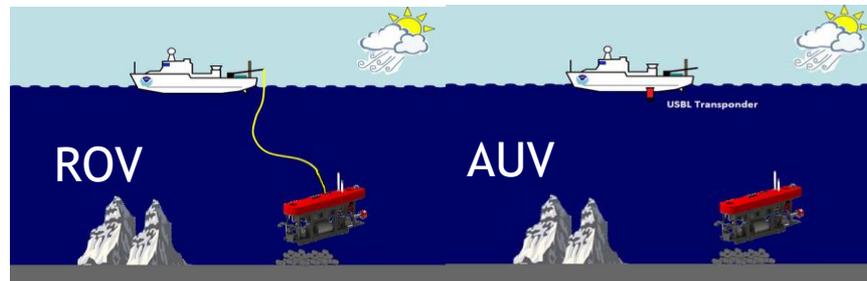
## Photogrammetry and Multibeam Echosounder



**Full frame nadiral camera**



**MBES head**



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## SUSHI DROP Future Works

Continue the study campaigns with Croatian and Italian institutions. The University of Bologna will make the drone available to interested parties with research agreements.

2023 Approved a new Project at National level: MANATEE (Monitoring and mApping of mariNe hAbitat with inTEgrated gEomatics technologiEs)



There is a project repository <https://site.unibo.it/sushidrop/it/data> which refers to an Open Science Framework archive where are available the datasets of the missions (videos, models 3D, orthophoto, etc)

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## Sustainable fiSHeries with DRONES data Processing



SPLITSKO  
DALMATINSKA  
ŽUPANIJA





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**Thank you for your attention!**