



European  
Commission

# First EMFF Blue Growth calls networking session

Project acronym: LitterDrone

Call title: Blue labs

Duration: February, 1<sup>st</sup>, 2017 – January, 31<sup>st</sup>, 2019.

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**Poole, UK - 18/05/2017**

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# Challenge



## - What is the issue at stake?

*Marine Litter: a problem with similar impact to climate change. Monitoring is mandatory, and it is done manually now. LitterDrone will develop innovative tools to monitor beachmarine litter.*

## - Why does your project matter?

*Different kinds of cameras are used from UAV's to monitor litter in a «controlled» coast section (beach). Images are processed by a semi-automatic software system. Results are compared to those of the manual monitoring for validation.*



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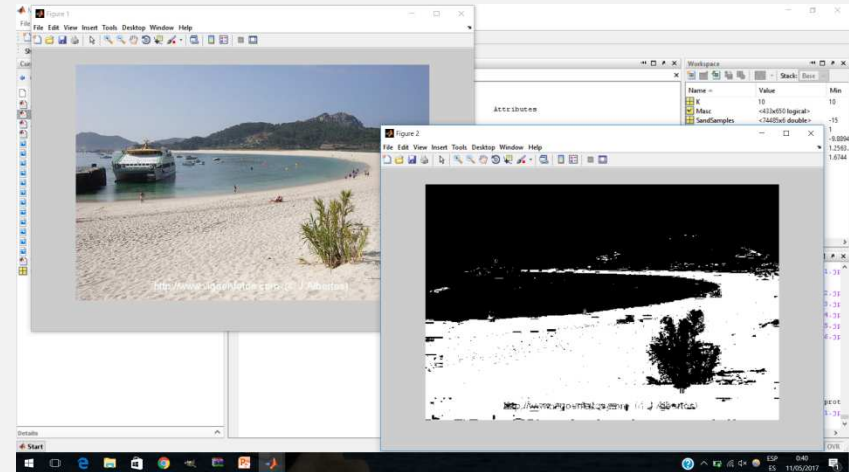


# Impact



## What will be your main results ?

- *A procedure for obtaining useful images from an UAV (kind of camera to use, appropriate flight conditions: height, number of images/second ...).*
- *A procedure for processing the UAV images: creating ortho-photos, different frequency bands alignment, automatic extraction of "non interesting" regions (sand, vegetation), materials classification using different reflectance's (on research), semi-automatic software: software detects possible litter elements, a human validates them seeing the images.*
- *The first two results may allow the creation of a new commercial service about marine litter monitoring. Litter monitoring will be performed more easily, more frequently and in more beaches.*



## What kind of information/cooperation are you interested in?

- New contacts/ideas for concrete delivery of some actions (communication, social media...).*
- Exchange on how similar projects will deal with such or such technical/administrative etc issues. MAINLY OTHER PROJECTS INCLUDING UAV'S AND UAV TECHNIQUES.*
- Organize joint activities (workshop, conference).*
- Find business partners or collaborators.*
- Find future partners for future projects (marine litter on sea, in other coast places).*



# Partners



- Who are the partners?

- University of Vigo. (Education/Research), Spain.
- AEBAM [Spanish Marine Litter Association]. (NGO), Spain.
- Grafinta (Private company), Spain.

UniversidadeVigo



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