



## Annotation of Benthic Species Workshop [AMBULANT Project]

MCAST Research Expo 2023

Date: 14th December 2023

Duration: 1 hour

### 1. Introduction by David (5 minutes)

- Welcome to participants and outline the workshop's objectives.
- The AMBULANT project: an overview of its impact on marine biology studies

### 2. Benthic Species in the Maltese Islands by Namate (12 minutes)

- Overview of the Maltese island 'benthic species: importance to the local ecosystem.
- Distribution of visually rich educational booklets for reference during and after the workshop.
- Interactive session.

### 3. Roboflow Registration and Annotation Tutorial by Sean (12 minutes)

- Images collection of benthic species using an ROV
- Step-by-step guidance on the use of Roboflow for image segmentation.
- Labeling benthic species images: ensuring a solid foundation for data annotation.

### 4. Hands-on Labeling Session by David, Daren, Sean and Namate (15 minutes)

- Interactive labeling session where students practice labeling images in the Roboflow repository, solidifying their understanding of the process.
- Personalized support from the team to address individual questions and foster an environment of collaborative learning.

### 5. Exporting Dataset and Computer Vision Techniques by Daren and David (10 minutes)

- Tutorial on how to export the annotated datasets, with an emphasis on the importance of this data for computer vision tasks.
- Explanation of the computer vision techniques implemented in species identification: making complex concepts accessible.
- Live demonstration of a model used for identifying fish species: showcasing a real-world application.

### 6. Conclusion and Interactive Q&A by David (5 minutes)

- Recap and Key takeaways of the workshop, ensuring the participants have a clear understanding of what they've learned.

#### Trainers:

- Sean Dimech (AquaBiotech)
- Namate Sililo (AquaBiotech)
- David Deguara (MCAST – IICT)
- Daren Scerri (MCAST – IICT)

#### Tutor:

- Tama S Klenczner (AquaBiotech)

#### Coordinators:

- Stela Karovic (AquaBiotech)
- Ines Boujmil (AquaBiotech)
- David Deguara (MCAST – IICT)



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