

# **Competence Center in Monitoring and Control (CCMC)**

F. Neves

LIP Advisory committee meeting

19 April 2024



# Synopsis:

## Who we are, what we do and activity highlights

### LIP Contributors:

Nuno Barros, Francisco Neves (Coord.), Guilherme Pereira (LIP contract), João Silva, Vladimir Solovov, Filipe Veloso, Helmut Wolters.

### Master Students:

Francisco Santos (**TheLOOP**), Gil Madeira (LIP Master scholarship), João Parente (**MARE-ECOTOP**).

- ✓ Brings together both the **expertise** and **human resources** from several LIP groups (ATLAS, DUNE, LZ, IT) and uses the accumulated know-how and tools to **establish partnerships/contracts with third parties** (e.g. other laboratories, industry) where the LIP scientific deliverables can be reused;
- ✓ Shares and helps implementing solutions among other LIP groups; Training of human resources.

### Highlights from 2023 (-2024):

- ✓ Development of a **MCA prototype** (135k€, 12 months, 2.4 FTE) for the VITAL Technology Group CO.;
- ✓ Finished the project “**MonNest - Nest Monitoring**” (partnership with MARE-ECOTOP), funded by the Technology Transfer Office of the University of Coimbra (~5k€, INOVC+ Ignition Project and Proof of Concept);
- ✓ Supervision of 3 **Master** students (1 in collaboration with Industry, 1 LIP master scholarship);
- ✓ Development of **outreach instruments** (Cloud Chamber);
- ✓ Created a CCMC **portfolio**;



# Objectives for the future & SWOT

## Objectives & Prospects for the future (2024-)

- Execution of the MCA prototype project (**priority!**).
- Partnership with UC and ESAC in a PTDC call (~43k€, 12 months, 1 FTE) – LIP work focuses on using satellite and drone images to monitor invasive plants.
- Continue to seek out for **new funding opportunities** with current/new partnerships in industry and academia.
- Continue to invest in the **training of human resources** and development of dissemination activities;

## SWOT

### Strengths

- ✓ A large body of knowledge available (e.g. analysis, software, electronics);

### Opportunities

- ✓ The ability to deploy very **high quality and personalized** products and services;

### Weaknesses

- × Difficulty in **allocation of FTEs or resources**;

### Threats

- × The ability to ensure the **manpower** required and, consequently, meet **deadlines**;