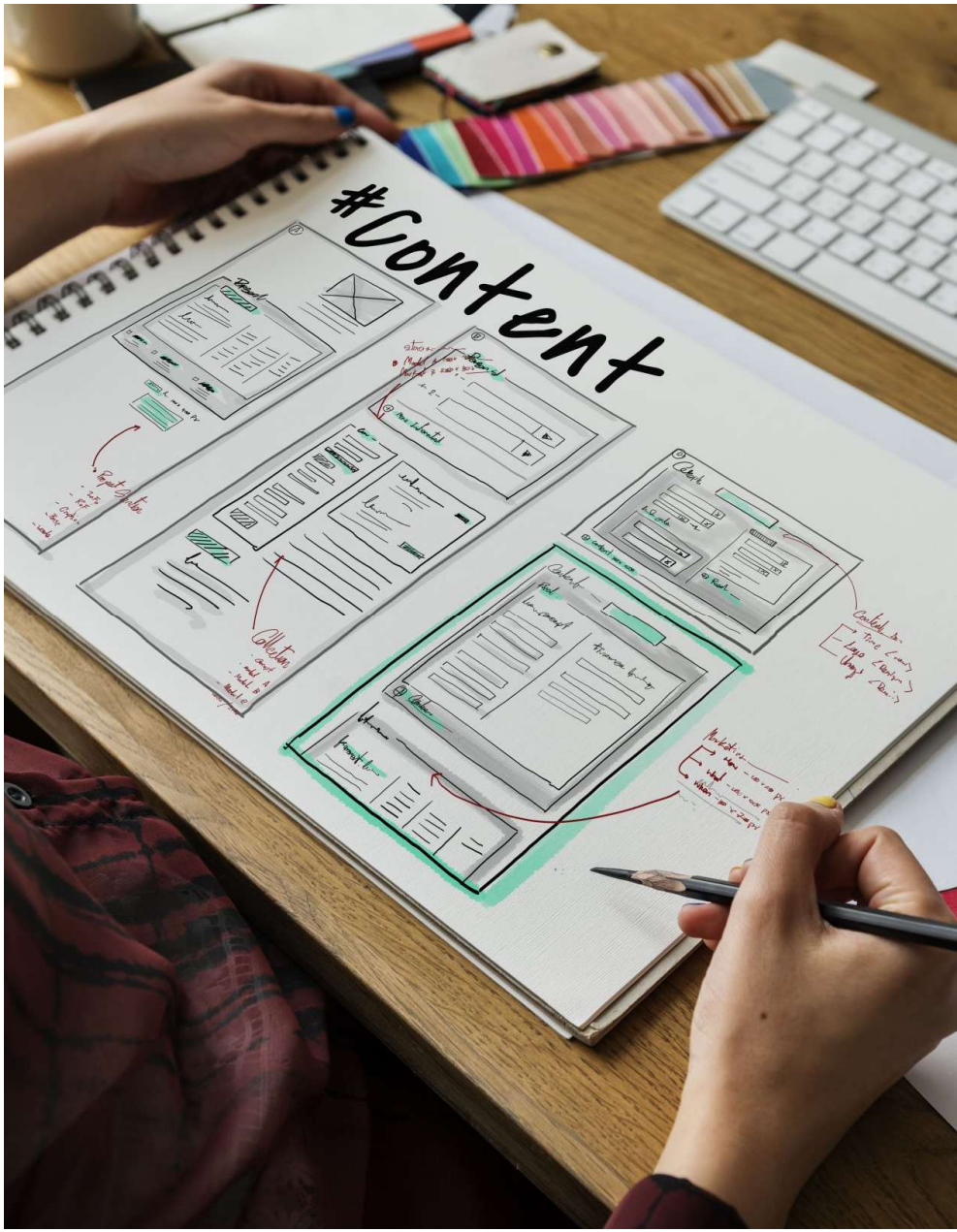
AI in the Sky
Nikola Vaptsarov Naval Academy

Agenda

- Introduction
- Summary of BIP
- BIP Schedule
- Time and place
- Requirements for participants



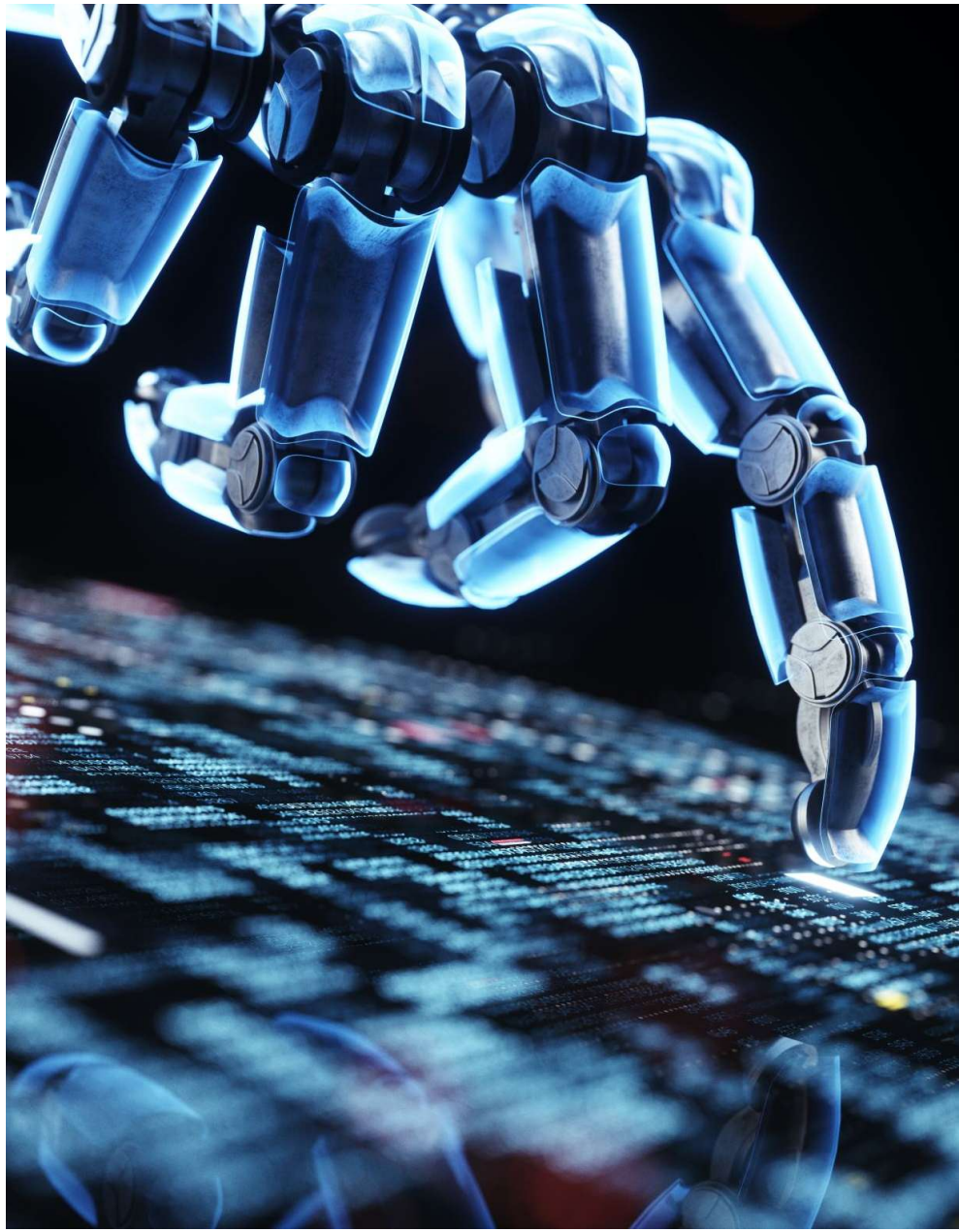
Introduction

Summary of BIP

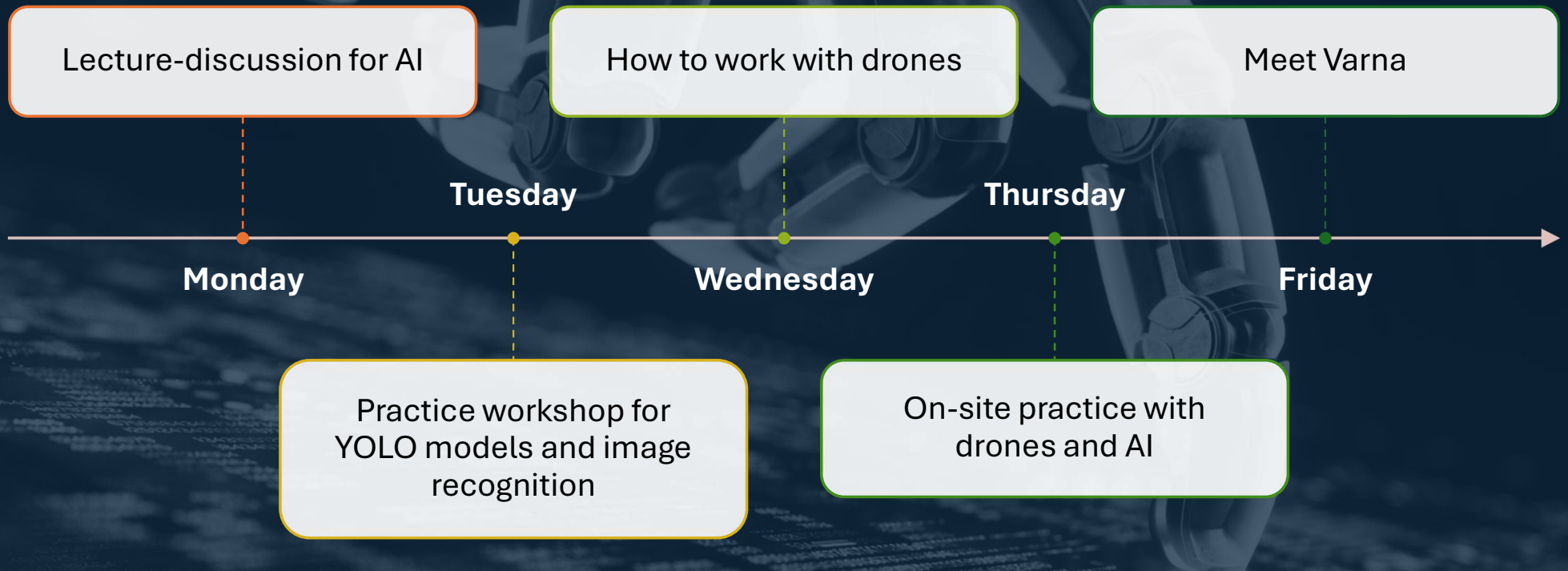
The workshop "**AI in the Sky**" focuses on introducing participants to the integration of artificial intelligence with drones. Students from various universities will explore fundamental AI principles, gain hands-on experience with tools for processing images and video streams, and experiment with real-time video analytics using drone footage. The event emphasizes practical learning through innovative projects, enabling participants to develop solutions for real-time data processing and information extraction in aerial scenarios. By fostering collaboration and creativity, the workshop aims to inspire new ideas at the intersection of AI and drone technologies.

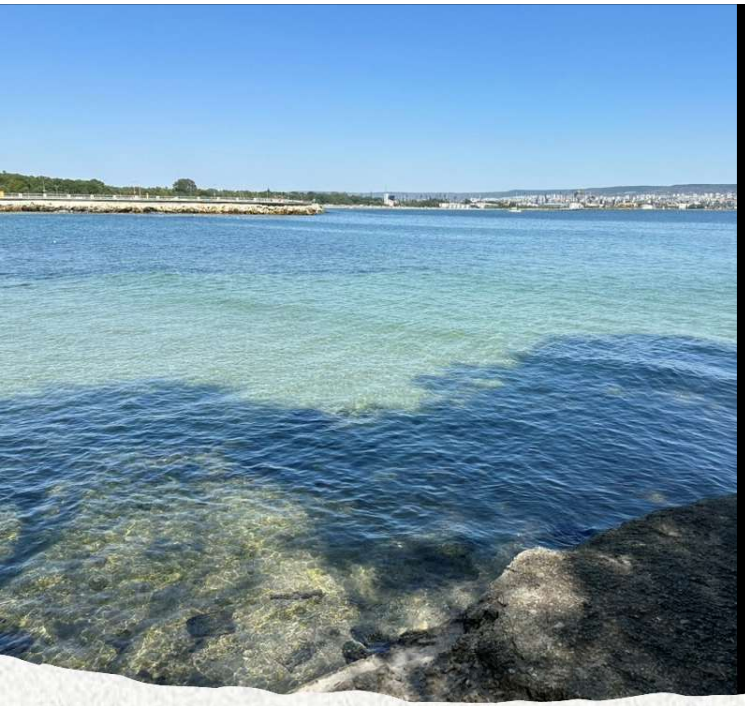
BIP Schedule

- AI algorithms basics
- How to use YOLO models for real-time image recognition and object detection
- Techniques for setting up video streaming from drones for surveillance and data analysis.
- Real-time object recognition from a video stream using AI models



BIP Schedule



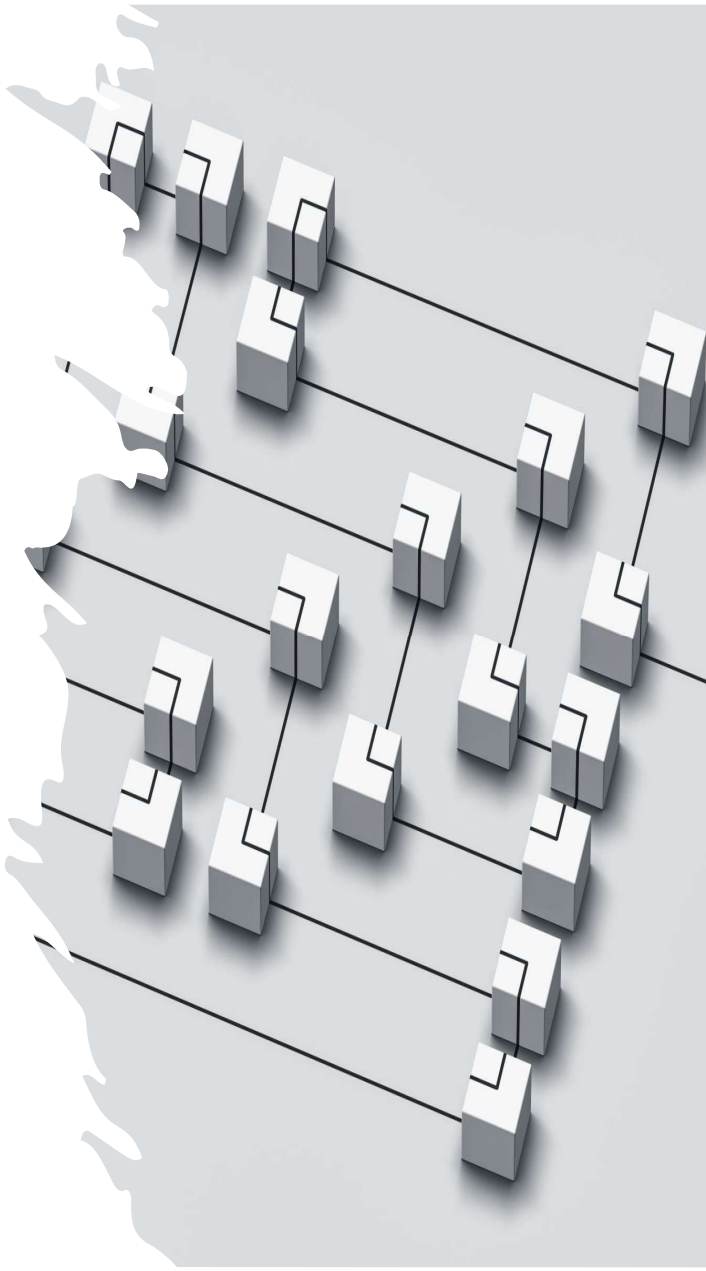


Time and place

- **Place**: Department of Electronic, Karantina Area
- **Duration**: 2 weeks - 1 week on site, 1 week online
- **Time**: 02.06 – 06.06.2025
- **Deadline for Applications:** 04.04.2025

Requirements for participants

- **Proficiency in Python**: Basic to intermediate knowledge of Python programming, including the ability to write, debug, and understand code.
- **Foundational Knowledge of Artificial Intelligence**: Understanding of basic AI concepts, such as machine learning, neural networks, or data processing techniques.
- **Systems Thinking**: Ability to analyse and design complex systems by understanding their components and how they interact.
- **Familiarity with Drones**: Knowledge of drone technology, including their operation, functionality, and applications in various fields.



How to apply

Erasmus@nvna.eu