360 DRONES

Italy

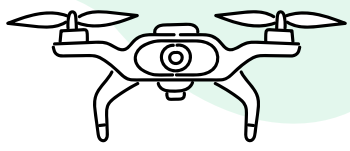
INFOGRAPHICS

DRONES360

Fostering innovation and Better skills match with the GREEN and DIGITAL sectors through the integration of emerging technologies (DRONES, VR, AR)in VET

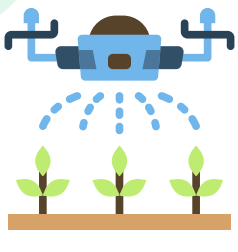
Introduction

In Italy, we interviewed two drone experts–Marco Cenciarelli and Chiara Vallarino–who shared their insights on the present and future of drone technology. Through their experiences, they highlight the role of drones in sustainability, education, and new career opportunities across various sectors.



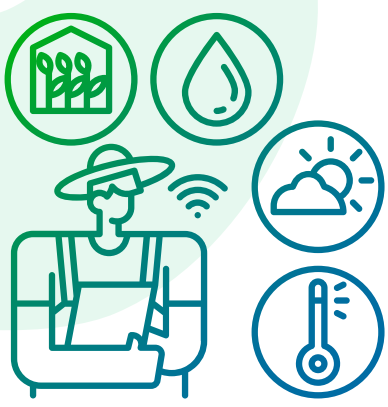
Pioneering Drone Technology for Sustainability

- Drones support 3D mapping, agriculture, and detection of illegal activities like deforestation.
- Equipped with thermal sensors, they reveal environmental threats such as fires or pollution.
- Useful in emergencies, they detect hidden issues like contaminated water or underground radiation.



VET Programs & Job Opportunities in the Drone Sector

- Drone training is increasingly needed in green and tech-focused vocational programs.
- Career paths include media, agriculture, environmental science, and surveillance.
- Growing roles also exist in archaeology, monitoring, and emergency response

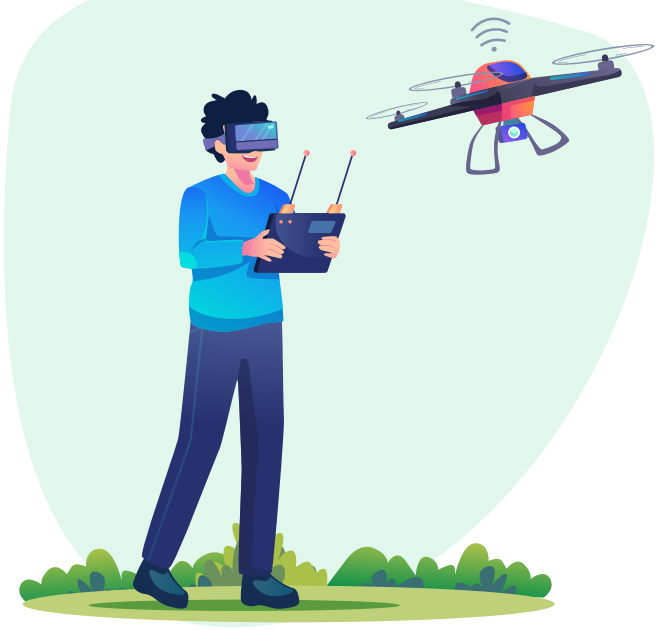


Essential Skills for Success in the Drone Industry

- Key skills: piloting, drone laws, and use of advanced sensors.
- Passion and adaptability are vital in a fast-changing field.
- Geo-environmental knowledge adds real-world value to drone work.

Enhancing VET Institutions

- Schools should provide practical training and prep for drone certifications like ENAC.
- Collaborations with experts help align education with industry needs.
- Courses should mix theory (e.g., EU rules) with hands-on drone experience.



Looking Ahead: Exciting Drone Innovations

- Future drones will feature advanced sensors and broader use in agriculture.
- In Italy, there's growing hope for wider adoption in environmental protection.
- Drones show great promise for landscape preservation and humanitarian aid.

Co-funded by the European Union

Funded by the European Union. Views and opinions expressed are however those of the author(s) only and do not necessarily reflect those of the European Union or the European Education and Culture Executive Agency (EACEA). Neither the European Union nor EACEA can be held responsible for them. DRONES360 – fostering innovation and better skills match with the green and digital sectors through the integration of emerging technologies (drones, VR, AR) in VET. Project n°: 2024-1-PL01-KA220-VET-000247866.