

Towards an EU Programme to counter the threat posed by Drones

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Some examples of malicious use*

(Intellectual property) theft (Dirty) bomb

Surveillance Smuggling

Command and control Cyber-offensive platform

Inciting panic/unrest Stalking/harassment

Kinetic projectile

+ the «clueless» & «careless»

*Potential malicious users include: OC, terrorists/terrorist organisation, lone actors



From 16 grams to 15 tons



Black Hornet military nanodrone (Norway)



Global Hawk (US)

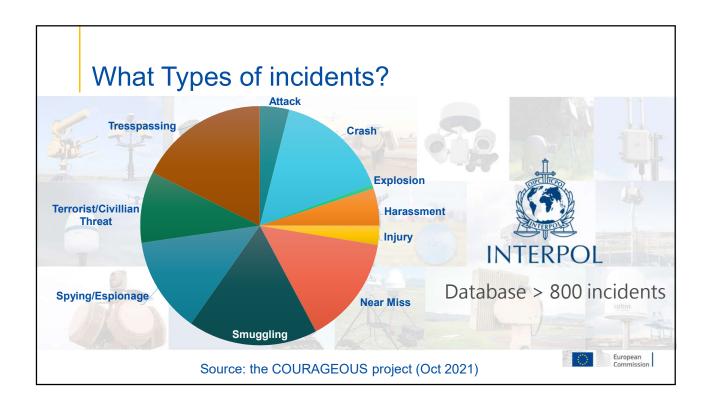


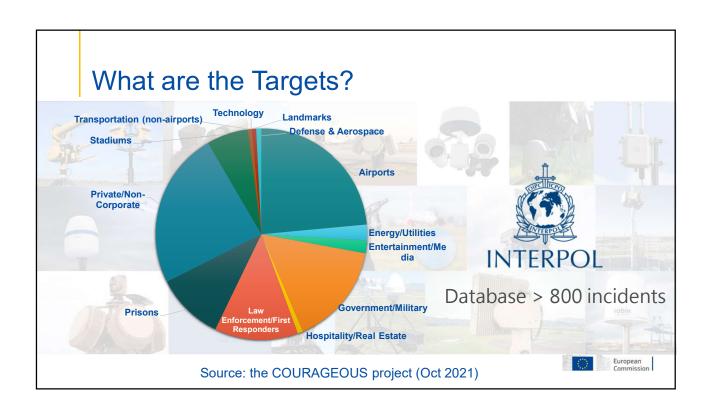


A rapidly evolving drone technology

- Beyond-visual-line-of-sight (BVLOS)
- Longer range/flight time
- Faster
- Greater load capacity
- Increased autonomy
- Swarm capability
- Enhanced payload capabilities (cameras, facial recognition software, etc.)



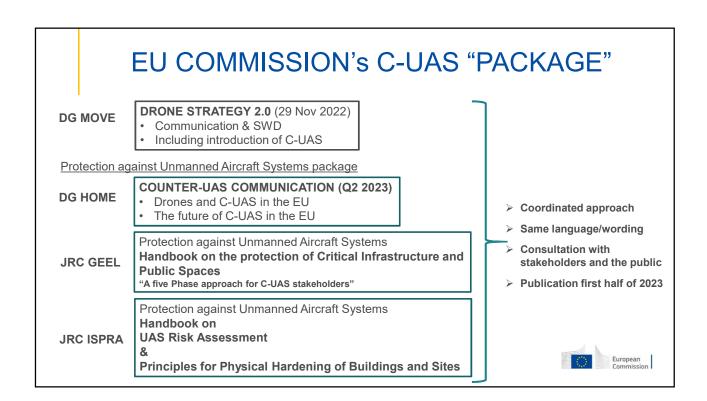


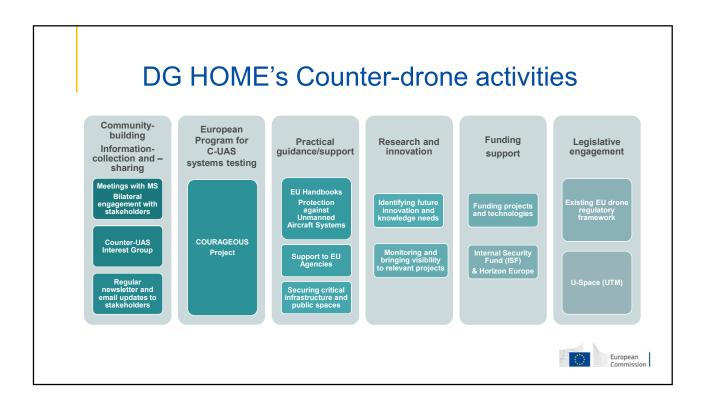


DG Migration and Home Affairs (DG HOME)

- ❖Use of commercial drones by terrorist groups in Syria-Iraq, the many airport incidents, criminal acts as well as several terrorist threats and plots, and more recently the war in Ukraine...
- ❖The need for adequate protection against drones is stated clearly in general policy:
 - ➤ The 2017 EU Action Plan to support the protection of public spaces.
 - ➤ The 2020 EU **Security Union Strategy** as well as the **Counter-Terrorism Agenda**.
 - The 2022 **Drone strategy 2.0 for Europe** (sustainable and smart mobility).
- ❖ Provide **support** to EU Member States, mainly **funding** of projects and studies.
- ❖Currently we are at 2 stakeholder meetings/workshops per year.







Skyfall project



This EU funded project developed a European Counter-UAV matrix, to carry out benchmark testing of existing C-UAS systems, and created a C-UAS training curriculum.

Two courses using this curriculum and counter-drone equipment were organised in September and October of 2021.

Participating authorities: Antwerp police, the Romanian gendarmerie, the Belgian Federal Police, and the Brussels-Ixelles police



https://www.projectskyfall.org/





The DroneWISE project

Counter-UAV for first responders:

- · Command, Control and Coordination Strategy
- Training modules (online&physical), including tactical options and decisionmaking frameworks
- Training Handbook
 - > Training modules accessible via an online training portal
 - > Free for Law Enforcement Agencies
 - > Basic modules in English + tailored modules in 4 EU languages

https://dronewise-project.eu





The DroneWISE portal

- Module 1: An introduction to the modules
- Module 2: Terrorism and attacks on public spaces
- Module 3: Unmanned Aerial Vehicle threat landscape
- Module 4: Unmanned Aerial Vehicle technology
- Module 5: Counter Unmanned Aerial Systems (C-UAS) technology
- Module 6: Unmanned Aerial Vehicle Legislation & Regulation
- Module 7: Crisis Management, Command & Control of UAV Terrorist Incidents
- Module 8: Forensic Recovery of Unmanned Aerial Vehicles
- Module 9: Threat & Risk Assessment Reporting suspicious sightings of UAVs
- Module 10: Counter Unmanned Aerial Vehicle Security Strategy

https://portal.dronewise-project.eu





The European Programme for counter-UAS systems testing

- ➤ Facilitate a more common European approach among civilian authorities to assist the comparing and testing of C-UAS systems
- ➤ The **COURAGEOUS project** (2021-2024), coordinated by the Belgian Royal Military Academy, is tasked with:
 - Identifying relevant standard scenarios
 - Developing functional and performance requirements/metrics
 - Developing a testing methodology
 - Conducting performance testing of sensors and integrated systems
 - Dissemination of results to EU MS (& beyond)



https://courageous-isf.eu/



Thank you for your attention.

European Commission

Migration and Home Affairs (DG HOME)

Directorate D - Internal Security

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