
CIVIL DEFENCE CHALLENGES

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CIVIL DEFENCE

**“Drone Service in support of
Primary Response Agencies”**



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Volunteer Based Organisation

- HQ in Phoenix Park (No Fly)
- Based in Counties
- Limited budgets



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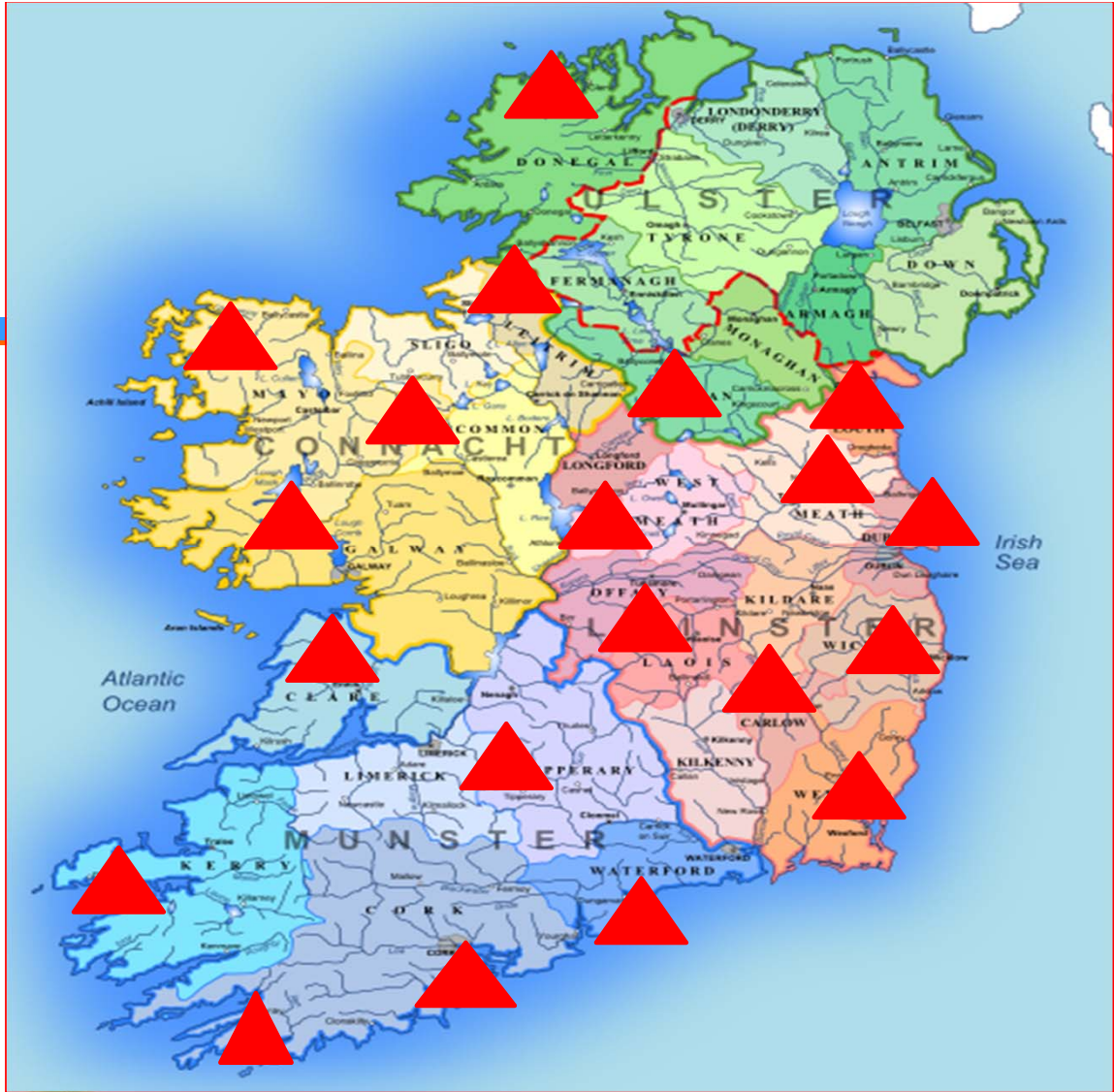


Craft in Service



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Types of Operations

- **Search for Missing Persons**
- **Coastal Searches**
- **Forest Fire Situational Awareness**
- **Route Reconnaissance post Severe Weather**



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Challenges



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Challenges

- Platform Types (Suitability for Airspace & Weather – M210)



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Challenges

- Platform Types (Suitability for Airspace & Weather – M210)
- Craft Condition (Inspection & Maintenance)



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Challenges

- Platform Types (Suitability for Airspace & Weather – M210)
- Craft Condition (Inspection & Maintenance)
- Skills Levels of Operators (Type Rating)



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Future - Redundancy



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Future

- Multiple C2 links (Radio, Android 4G/5G, Iridium etc.)
- Multiple GPS/IMU/Flight Controllers
- Multiple Battery Back-up Systems
- Monitoring of Motors/ESCs etc.



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Future

- **Sense & Avoid**
- **Multiple GEO fences**
- **Transponders/FLARM/ADSB**
- **Multiple Parachutes**



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“ Certified Standard”

Cost of “Certified” Vs Potential of Drones



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