





















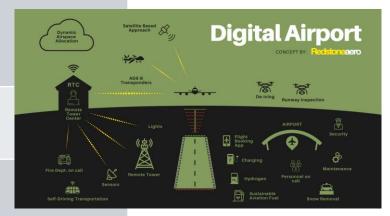
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## Digitalizing Helsinki-East Aerodrome

Use cases & goals	Notes
<ul> <li>Demonstration of use cases</li> <li>Search and Rescue</li> <li>Emergency Response</li> <li>Sample Medical Delivery</li> </ul>	<ul> <li>Use cases owned by authorities in Finland</li> <li>=&gt; authority aviation. This enables</li> <li>Use of Virve 2 service on the missions</li> <li>Collaboration with the air rescue association</li> </ul>
Airport Management System	Automation & enabler for remote operations
4G/5G connected drone	Private 5G mobile network for Airport. Virve 2 for drones when flying. [Virve 2 is the 4G service for authorities in Finland. (5G SA available for testing.)]
<b>5G connected devices</b> and sensors for the airport	Similar NPN use cases as on large airports – but need more flexibility!
Blueprint of the ecosystem for small-medium sized airports	Automation and central remote control are enablers for airport services at small airports.

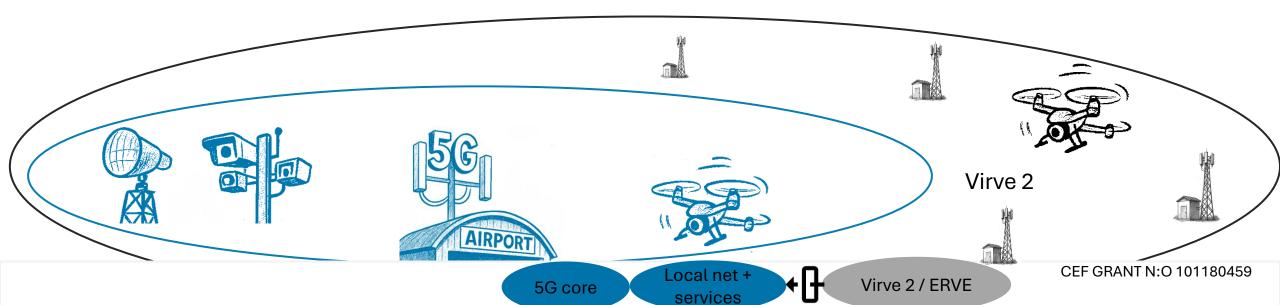






## Instant drone support for authorities

- Currently
  - Police needs to get to the target area first for using their own small drones
  - Air rescue association team also gets to the target area (2 -3 hours delay)
- Bigger drones are becoming available
- Carewings-5G tests/develops process for getting a drone that is stationed at the airport into air asap.
  - Collaboration with air rescue association and authorities





## Learnings & recommendations

Req spec: Less than 10% of all requirements relate to mobile networks

- Regulation and airport management are the more complex topics
   No point in requiring very advanced 5G features (UE support...)
   Private 5G & Virve 2 to be used in parallel. Network selection by UE.
- Major constraints by regulation and security policies.

## Dear EU

- Fix a liberal U-space regulation asap.
- Encourage civilian authorities to make use of BVLOS capabilities.

Technology is not holding us back, regulation is.

