

# LMT and partners' joint technologies enable UAVs to integrate into active air traffic, as demonstrated at GOF 2.0

RIGA, RĪGA, LATVIA, April 28, 2022 /EINPresswire.com/ -- Drones have been demonstrated to successfully integrate into common airspace with manned aircraft at the GOF 2.0 Roadshow in Riga. The demonstration was conducted by [LMT](#), a mobile innovator and the leading telecom operator in Latvia, in collaboration with Latvijas Gaisa Satiksme (LGS), the local air traffic controller, and the GOF2.0 consortium.

GOF 2.0 is an EU-funded project focused on the safe integration of unmanned aerial vehicles (UAVs) in urban airspace. LMT was chosen as the cellular network provider for the demonstration in Latvia, where the focus was on the integration of UAVs into urban areas for various purposes and the role of cellular networks, especially 5G coverage, in achieving this.

"Mobile networks and 5G will play a critical role in the successful incorporation of UAVs in common airspace. At the GOF2.0 Roadshow in Riga, LMT aims to demonstrate how mobile networks can support the safe inclusion of UAVs into the common air traffic by enabling UAV-to-UAV and



UAV-to-ground communication. This is crucial for flight risk assessment and hence successful deployment of drone technologies." - Gints Jakovels, LMT Innovation Lead

"The combined capabilities of the GOF2.0 consortium are brought to different locations to demonstrate how it enables equitable access to airspace and supports Urban Air Mobility operations in complex airspace," explained Maria Tamm, GOF2.0 project coordinator at Estonian Air Navigation Services (EANS).

During the demonstration that took place in the vicinity of Riga International Airport, four scenarios were executed under active air traffic conditions:

- Coordinated flights of piloted aviation and UAV in Riga airport
- First Responder UAS operation near Riga airport
- Inspection of a construction site
- Inspection of freeport of Riga in RIGA CTR

As noted by Maria Tamm, GOF2.0 project coordinator at EANS, the goal was to demonstrate and understand how easily Communications Navigation and Surveillance (CNS) and Aeronautical Information Manual (AIM) data and systems, as well as local unmanned and manned aircraft operators can be integrated into the GOF2.0 solution. This was to showcase the international scalability of the U-space architecture. U-space is an ecosystem facilitating a Safe and Secure Integration of drones.

To calculate where an unmanned aerial vehicle (UAV) can safely fly beyond the visual line of sight (BVLOS), LMT's cellular network data were integrated into the Dimetor's AirboneRF platform.

"The digitization of the airspace and the automation of the processes lay the foundation for BVLOS drone operations. This is what we, together with LMT, have demonstrated at GOF 2.0 trials in Latvia, using AirborneRF to analyze airspace connectivity and ground risk and seamlessly exchange the required 4G/5G network data from LMT with the U-Space." - Thomas Wana, CTO & Co-founder of Dimetor

The demonstration was organized by the GOF 2.0 consortium, LMT, Latvijas Gaisa Satiksme (LGS), METRUM, State Fire and Rescue Service Republic of Latvia, and AirBaltic Training. Demonstrations of the use of GOF 2.0 drones are in collaboration with the Comp4Drones project.

#### About LMT

LMT is a mobile telecommunications operator and market leader in Latvia, currently amongst the most efficient mobile data networks in the world. As a market leader, LMT brings its expertise to successful collaborations with international organizations, governmental, academic, and start-up ecosystem partners. LMT believes the future to be mobile-only and builds pioneering solutions based on cutting-edge wireless technology.

## About GOF 2.0

GOF 2.0 is an international project for testing the shared airspace architecture of congested airspace. By organizing drone test flights, GOF 2.0 consortium aims to create a deeper understanding of unified airspace in which both unmanned and manned aircraft operate together.

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