LEONARDO CANADA

VISION

Resilient Navigation In GPS-denied or Degraded Environments

LEONARDO

Advanced mission planning and simulation solution designed to enable navigation in GPS-denied and contested environments. Leveraging EO/IR-based navigation supported by simulated IMU, radar, and LiDAR sensors.

Platform Capabilities

Mission planning

Plan and simulate missions using 2D and 3D environments with infrared waypoint definition.

Navigation validation

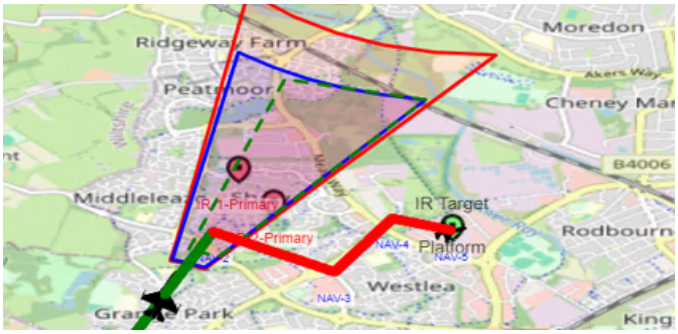
Develop and validate navigation algorithms through multi-sensor data.

Flight path generation

Generate mission planning files supporting route execution and mission continuity without satellite navigation.

Scene generation

Realistic scene generation, detection analysis, and rapid flight-path validation in complex battlespaces.



Product Roadmap

2.0 — **Vision 2.0**
Flight navigation planning for aircraft with EOIR payloads

2.1 — **Vision 2.1**
Detectable EOIR Landmark auto recommendation against flight paths

2.2 — **Vision 2.2**
Deviation from flight path analysis during IMU dead reckoning navigation

2.3 — **Vision 2.3**
Flight path generation with no fly zone and operational constraints

Future — **Future Feature**
SLAM, Autonomous flight support, sensor fusion, operational flight visualization

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