



# THE UNMANNED MISSION AVIONICS TEST HELICOPTER – A FLEXIBLE AND VERSATILE VTOL-UAS EXPERIMENTAL SYSTEM



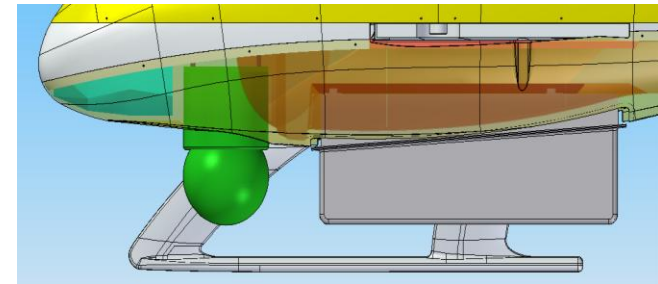
TURNING SYSTEM EXPERTISE INTO VALUE



**UMAT:** Unmanned Mission Avionics Test Helicopter based on Swiss UAV NEO S-350 Twin

- ▶ highly versatile, experimental platform for easy integration of varying payloads
- ▶ strict separation of experimental avionics and certified UMAT avionic system
- ▶ enables rapid integration and simplified qualification of experimental Hard- & Software

- ▶ Payload Cassette Safety Concept
- ▶ The generic UMAT Integration Concept
- ▶ UMAT Operational Capability Levels



**Integration of Synthetic Aperature Radar (SAR):**

- ▶ Integration of the Sensor
- ▶ Test Flights: SUMATRA Campaign Storkow
- ▶ First result taken by the SAR Sensor SUMATRA of the Fraunhofer Institute

