

Project PSYCHE



Modular Sensor Configuration

(stereo-)camera
thermographic camera
lidar, gas sensors,
ultrasonic, ...

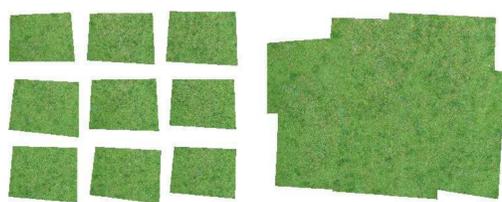


Start- & Landing



Platform for full-autonomous
take-off and landing

Farming



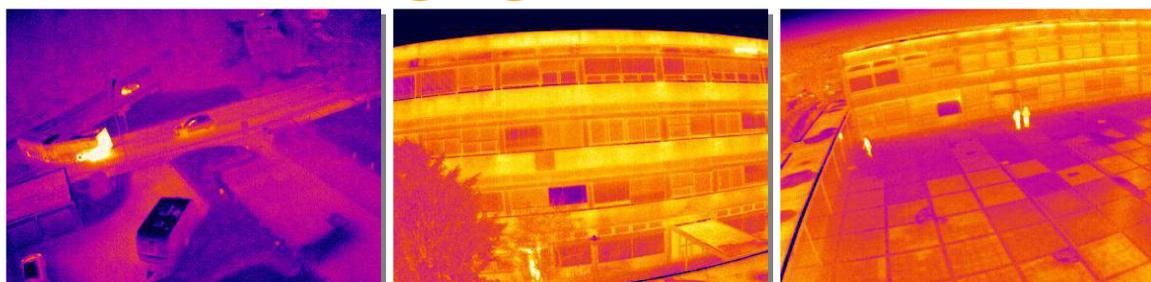
Cooperation



Team of (hetero-
geneous) robots



Thermal Imaging



Project Thermoscan (left). Generation of 2D building models by stitching and registration of thermal and tv-camera.

Precise Positioning and Navigation



A more precise positioning of UAVs is needed. In addition to the absolute position that is determined by a differential Global Navigation Satellite System (GNSS), the platform is equipped with surrounding sensors (Optical, Ultrasonic, Radar). These assist the pilot in flights next to buildings, walls or other objects and prevent collisions with them.