PORTFOLIO

January 2023	**Live Drone Video Recordings at the "Jännerrallye 2023"**

- Wide range of photo and video recordings of race cars in motion, created at several locations in Upper Austria during 3 days of the nationwide event
- Cars recorded by using manual as well as smart tracking options
- Videos shooting in both panoramic view and using a large zoom whenever the close ups were necessary for recording drifting cars
- Job done in collaboration between drone pilot and camera operator

Result: Our videos have been streamed in ORF Sport TV and used for the live stream on the Jännerrallye website

Dezember 2022

Underwater Inspection of a Houseboat

The inspection has been carried out using the QYSEA Fifish V6 Expert drone

- Equipment tested for the first time with fantastic results and high quality recordings
- Underwater 3D model created

Result: Detailed underwater shots and a video of the houseboat floor surface under the water

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November 2022

Outside and inside aerial photos and videos of a private property

Video recordings created to show the size of the house as well as the surrounding area including the garden and swimming pool.

- Fully manual flight
- Medium sized video created
- Panoramic and close-up photos delivered

Result: A range of photos and a short video has been created for a customer's personal use (potentially also for a real estate add if such need arrives)
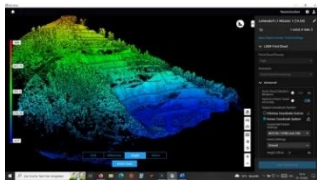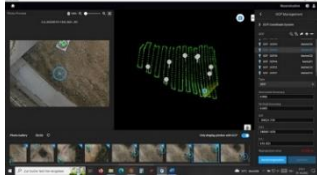
September 2022

University BOKU, Tulln (second part of the project)

Wheat fungus detection with the Zenmuse P1 and the Phase One

- Manual and automated flights for photogrammetry
- Orthophotos provided

Result: Comparison flights between P1 and Phase One for the accuracy survey and visualization of the fungal infestation.

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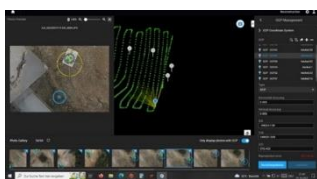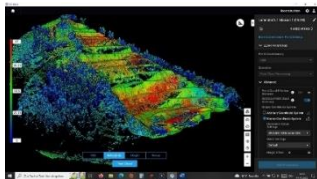| September 2022 | **Survey flights Kalkberg Leoben (Stone-pit)** |
| | **(second part of the project)** |

Survey flights for the Montan University of Leoben

- Manual and automated flights for photogrammetry
- Automated LiDAR flights, point cloud creation
- Terrain model with contour lines (dsm)
- Use of GCP's

Result: Data collection for diploma thesis
Survey flights accuracies:
LiDAR 5-7cm GSD ; Photogrammetry 1-2 cm GSD

| August 2022 | **Survey flights Kalkberg Leoben (Stone-pit)** |

Survey flights for the Montan University of Leoben

- Manual and automated flights for photogrammetry
- Automated LiDAR flights, point cloud creation
- Terrain model with contour lines (dsm)
- Use of GCP's

Result: data collection for diploma thesis
Survey flights accuracies:
LiDAR 5-7cm GSD ; Photogrammetry 1-2 cm GSD

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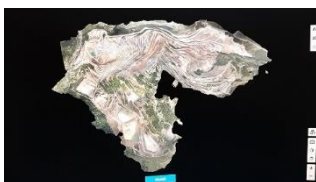www.terraoverfly.at

July 2022   **University BOKU, Tulln**

Wheat fungus detection with the Zenmuse P1 and the Phase One

- Manual and automated flights for photogrammetry
- Orthophotos provided
- Programming and commissioning of Phase One

Result: Comparison flights between the P1 and the Phase One for the accuracy, collection and visualization of the fungal infestation.

June 2022   **Surveying flights at the Erzberg (Stone-pit)**
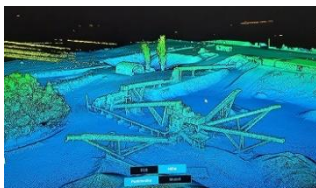
Survey flights for the Montan University of Leoben

- Manual and automated flights for photogrammetry
- Automated LiDAR flights, point cloud creation
- Terrain model with contour lines (dsm)
- Use of GCP's

Result: data collection for diploma thesis
Survey flights accuracies:
LiDAR 5-7cm GSD ; Photogrammetry 1-2 cm GSD

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May 2022	**Surveying of the gravel pit and the machines used on site (Anonymous location on customer request)**

Inventory, survey flights, machine survey

Flights operated:

- Manual and automated flights for photogrammetry
- Automated LiDAR flights, point cloud creation
- Volume calculations of the gravel pit and the filling pond

Result: according to customer requirements
Machine measurement in 1cm accuracy
Survey flights for the inventories:
LiDAR 5-7cm GSD ; Photogrammetry 3-5 cm GSD

March 2022	**3D model / Digital twin of Mödling Castle**

Creation of a digital twin photogrammetry and LiDAR for marketing purposes

Flights operated:

- Manual and automated flights for photogrammetry
- Automated LiDAR flights, point cloud creation

Result: 3D model creation with different accuracies