

The airspace, and a world to practise in.

Drone geo-zones as volumes with their altitude band above the terrain.

Drones and autonomous vehicles need two things: the real space with its rules, and a world in which every mistake can be made safely. Official and open geodata are the basis for both.

For: Drone operators · Inspection · Makers of autonomous systems · Research

WHO IT IS FOR

Plan, fly, train.

Flight planning, operations and development need the same space: once as it is today, and once as a world to practise in.

FLIGHT PLANNING

Rules and traffic in the airspace

- Drone geo-zones with the legal basis on click, as volumes with an altitude band.
- Manned air traffic from reported positions.
- GPS interference over real terrain.

Inspection flights and approvals

OPERATIONS

Walk the operating area in advance

- 3D terrain, buildings and viewshed.
- Sun position for light and glare.
- Official warnings and DWD weather.

Mission preparation

DEVELOPMENT

Training worlds with WorldCrafter

- 3D worlds from the geodata of real places for Unreal Engine 5.
- Seasons, weather conditions and synthetic sensor data per capture.
- Colour image, depth, class and thermal image from the same world.

Test and training data for autonomous systems

Your data in the same picture.

The map brings what is officially and openly available. Your routes, take-off sites and test areas are added, protected.

GEO-ZONES · ACROSS GERMANY · IMAGE ON THE COVER

An inspection flight is being planned.

Where you may fly, where approval is needed and what is in the air right now are in one picture over real terrain.

The map does not see drones.

SATELLITE POSITIONING · ACROSS GERMANY

Where is satellite positioning disrupted?

Drone pilots see before take-off whether positioning in the area has recently been unusual.

An indication, not proof.



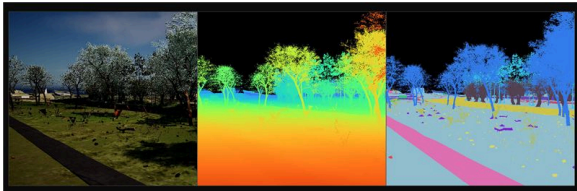
Example: viewshed from a hill across the valley.

OPERATING AREA

Walk the operating area in advance.

Take-off site, line of sight and obstacles are settled before the team is on site.

Trees and hedges do not block the viewshed; it accounts for terrain and buildings.



One capture from a training world: colour image, depth and class from the same world.

WORLD CraFTER

A world in which you can practise safely.

Sun, fog or snow: the right answer is known for every capture, so the cameras of autonomous systems can be checked and trained against it.

What getting started looks like.

We show you your operating area in one picture and, if you wish, as a training world.

Demo

One hour, your area: geo-zones, air traffic, GPS interference, terrain and view.

NO PREPARATION

Pilot project

A password-protected map for your operating area; defined scope, defined term.

FLIGHT OPERATIONS OR DEVELOPMENT

Train

A training world of your test site with WorldCrafter, with seasons, weather and sensor data.

DEVELOPMENT AND RESEARCH

Which area should we show you?

In a demo we show SovAtlas on your operating area and WorldCrafter on a training world.

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More on this topic: sovatlas.com/en/drohnen · Operations and assurance: sovatlas.com/en/betrieb

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