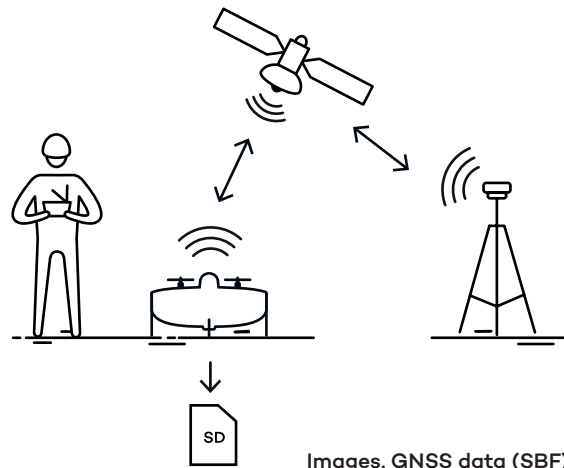


# The Wingtra Workflow



**i** Lower GSD can result in better accuracy. Every 10 km baseline distance (between drone and base station) induces up to 1 cm error in accuracy.

## 1 Flying

Fly WingtraOne to collect aerial data for your project. Images and GNSS data is stored and organized on the camera SD card within WingtraOne.

## 2 PPK Geotagging (WingtraHub)

- After your last flight, insert camera SD card into your Windows computer, start WingtraHub and select the “WingtraPilotProjects” folder on the SD card. The “WingtraPilotProjects” folder contains all flown projects (images, GNSS data).
- Provide base files (RINEX) and accurate base location (WGS84, ellipsoidal height). The base files need to cover the full flight period and can be recorded with your own GNSS base station or by subscription to a GNSS network (CORS or VRS). We recommend a logging interval between 1s and 10s.
- Start the PPK Geotagging. The geotagged images, a csv file, and a geotagging report are saved into an output folder within each project on the SD card.

## 3 Images post-processing (Pix4D, PhotoScan, etc.)

Import your images into the post-processing software. Use position information from the csv file and select the correct input coordinate system:

Version	Coordinates System	Height Reference System
PPK	WGS84	Ellipsoidal Height
Non-PPK	WGS84	Above mean sea level height (egm96)

# PPK Kit for WingtraOne



# Get Started with WingtraOne PPK Module

This PPK module enables you to collect high-precision aerial images with your WingtraOne. Follow this Get Started guide to setup the system and learn about the workflow.

## Content



PPK module including antenna

One-time License Activation USB Stick



PPK License Dongle

PPK Top Cover



## How to deploy



### Hardware

- 1 Plug the cable of the PPK module into the connector on WingtraOne's white cover
- 2 Screw the PPK module onto the white cover
- 3 Latch the antenna cover
- 4 Screw the antenna as shown in the picture



Skip this part if the PPK module is already installed.  
Do not remove the module once installed.

### Software

- 1 Download WingtraHub installation file from [support.wingtra.com](https://support.wingtra.com) and install WingtraHub on your computer (Windows OS 10).
- 2 Follow the tutorial on [support.wingtra.com](https://support.wingtra.com) to activate your PPK license and learn how to use WingtraHub for the first time with the provided demo project.
- 3 Note: The PPK License Dongle needs to be plugged in to your computer for PPK geo-tagging.

