

High-accuracy photogrammetry workflows for national and regional mapping programs.

● Precision ● Performance ● Global Expertise

Aerial Image Processing and Orthophoto Solutions

FROM FIELD TO INSIGHT

HawarIT's European Aerial Image Survey Processing Projects

From 2023-2025, HawarIT, in collaboration with partners across Europe, executed a series of surveying projects across various regions in the Netherlands, Belgium, and France.

SERVICES We Offer

Hawar IT provides complete end-to-end processing for Aerial Image Survey Processing projects, delivering accurate, ready-to-use geospatial products.



Incoming Image QC

Detection of shadow, cloud, blur in the captured airborne images.



Aerial Triangulation and Block Adjustment

Ensuring that the captured Aerial Images maintain the highest relative and absolute accuracy which is imperative for mapping.



DEM Editing and Orthorectification

Highly accurate and detailed DEM generation which is further used to incorporate real 3D world coordinates in individual ortho images.



Seamline Editing

Creation of Seamless orthorectified imagery removing geometric and height distortions.



Mosaic Tile QC and DEM Bridge Editing

Eliminating distortions and displacements associated with image mosaics.



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ADDITIONAL Services

Flight Planning

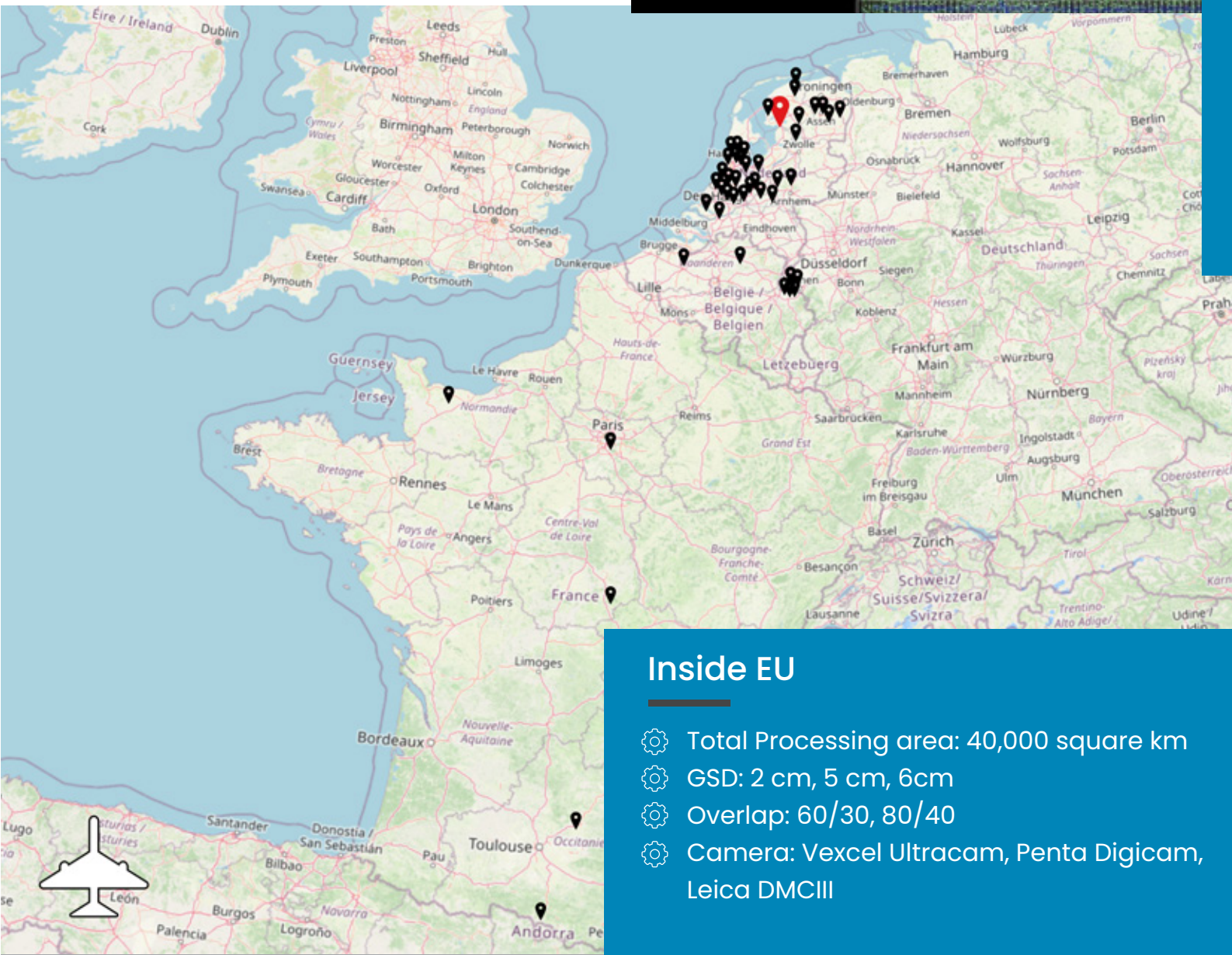
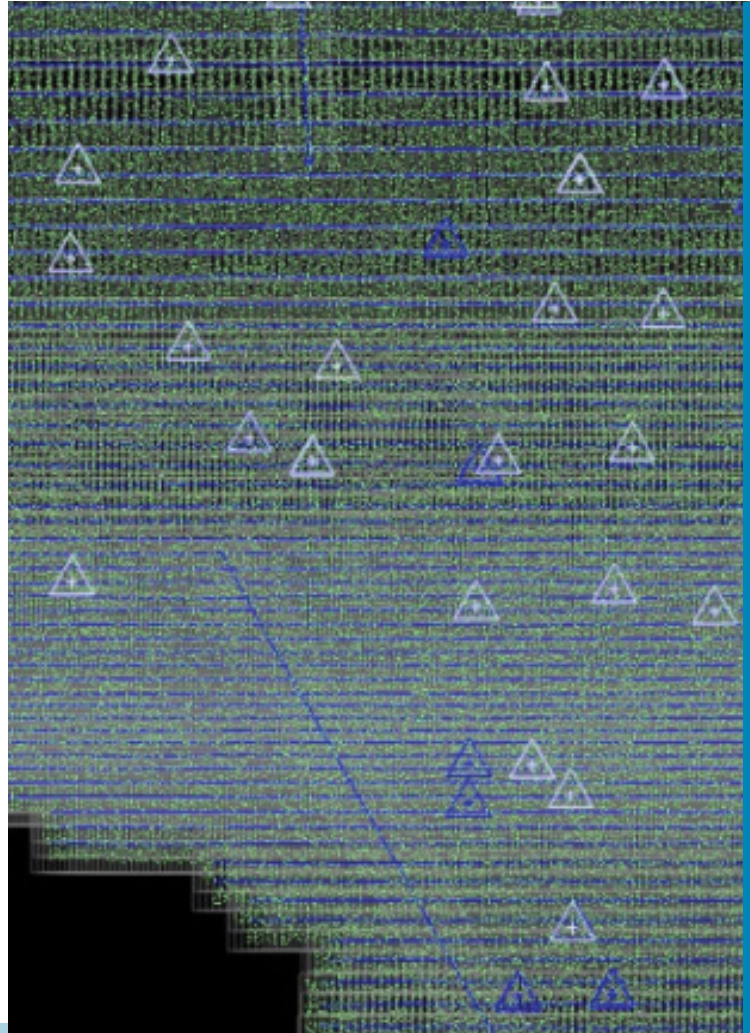
- Optimized flight paths for drones or aircraft
- Consideration of GSD, overlap, terrain, weather and post-processing goals

Field Survey Planning & Support





- GCP/Check point planning
- Accuracy assessment methodologies
- On-ground survey advisory

Custom Workflow Automation

- FME-based tools for QC automation
- Processing pipeline optimisations
- Client-specific productivity enhancements



Inside EU

-  Total Processing area: 40,000 square km
-  GSD: 2 cm, 5 cm, 6cm
-  Overlap: 60/30, 80/40
-  Camera: Vexcel Ultracam, Penta Digicam, Leica DMCIII

Let's Build Accurate Geospatial Insights Together

Whether you are preparing a national mapping program, a city-wide orthophoto project, or a high-resolution airborne survey—Hawar IT delivers the precision, speed and reliability your project deserves.

Why Clients Choose HawarIT

- 25+ years of geospatial excellence
- Hybrid Dutch–Bangladesh model = high quality + cost efficiency
- Large-scale, high-accuracy photogrammetry capability
- Expert in GIS, Photogrammetry, LiDAR & WebGIS
- Trusted by European government and private sector clients

Ideal Clients & Markets

We support organizations that require accurate, large-scale aerial imaging and mapping.

- Geo-survey companies
- Mapping & photogrammetry firms
- Government land, cadastre & urban planning departments
- Utility companies (power, telecom, water)
- Infrastructure & engineering firms
- Environmental and forestry authorities

Hawar IT is a Dutch–Bangladeshi Geo-ICT and Engineering Technology company with nearly 20 years of experience in GIS, Photogrammetry, LiDAR, CAD, and geospatial application development.

With European-quality standards and a highly skilled Bangladesh-based technical team, we deliver cost-efficient, high-accuracy geospatial solutions to clients across Europe, North America, Australia, and beyond.



HawarIT
A Dutch-Bangladeshi Company

**EUROPEAN
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