



FENIX AIR

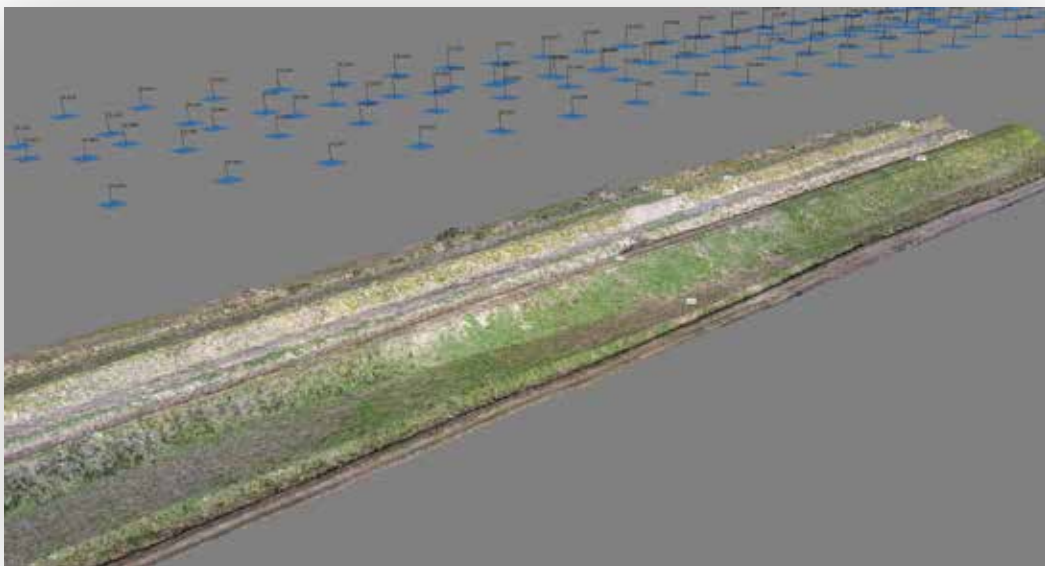
PHOTOGRAMMETRIC SURVEYS

Photogram-metry, which means “metric representation using light”.

Photogrammetry is a technique that can automatically generate spatial and descriptive information using multisensorial systems.

Our instruments are: RGB cameras, thermal cameras, multispectral cameras and LiDAR

What do we get are high-resolution orthorectified aerial images, 3D models (made using *structure for motion*), digital terrain models (DTM), vigour maps and vegetation indices.



Why should you integrate drone-captured photogrammetry in your

- ✓ It allows you to determinate objects and their characteristics without physical contact;
- ✓ it's a simultaneous survey of many points, resulting in a great quantity of information;
- ✓ measures are made off-line (in retrospect, after the survey) and they can be repeated, changed or controlled; surveys and post-elaboration are quick and fast;
- ✓ it is a cost-effectiveness operation: lower unitary cost of a map produced with the photogrammetric method compared to those made from topographical surveys;
- ✓ accuracy uniformity.



The fields of application are:

- ✓ topographical surveys: making or updating topographical, thematic or numeric (GIS) maps;
- ✓ territory monitoring: making of large scale maps for urban and territorial planning or for engineering works;

- ✓ agricultural or forestry census;
- ✓ archaeological surveys of cultural heritage;
- ✓ cadastral and environmental surveys;
- ✓ infrastructural control;
- ✓ DTM and orthophotos.



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