15cm aerial image, used for location of land parcels in Mauritius.

### Versatile Products and Services

- Colour digital aerial photography
- Lidar surveys
- Hyperspectral data
- Digital Terrain Models
- Digital Elevation Models
- Oblique imagery
- Colour infra-red imagery
- Orthophotography
- 3D city models
- Photogrammetric mapping
- Topographic mapping
- Image analysis

ASTRIUM
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All the space you need
A precise knowledge of the Earth’s surface and infrastructure status and condition are the basis for sound decision-making in various fields, ranging from environment protection through spatial planning to infrastructure and engineering projects. As (online) information platforms become more and more exhaustive, highly detailed and up-to-date imagery is a key content required to fulfill expectations of professionals.

For more than 25 years, decision makers in government, business and research worldwide have been relying on Astrium GEO-Information Services for airborne remote sensing imagery, data and related services - a cost- and time-efficient, highly precise alternative to on-site surveys.

### Diverse Applications

Astrium’s airborne services are known not only for their quality and reliability, but also for ideally matching the individual needs of specific application areas.

- Oil, Gas and Mining: infrastructure, facilities and pipeline planning, volumetrics, environmental assessments monitoring and change detection, slope analysis, seismic planning, geo-hazards
- Engineering: highway and railway planning, construction and maintenance, vegetation encroachment, wind farm siting, 3D visualisation, flood modelling, noise mapping
- Utilities: risk assessments, asset mapping, network planning and maintenance
- Public Authorities: urban planning, security, environmental analysis, coastal monitoring, habitat analysis, land cover classification, emergency response planning
- Forestry and Agriculture: land parcel identification, crop analysis, biomass calculation

### Challenging Projects

The selection of the most suitable sensor and definition of appropriate projects has been proven in a range of assignments in some of the most demanding environments around the world, where Astrium GEO-Information Services successfully conducts airborne survey projects.

In Mauritius for example, the Government has set up a project (LAVIMS) designed to modernise land administration by improving access to information. Implementation is under the responsibility of a consortium of international and local companies led by Astrium. Part of the LAVIMS data delivery is a detailed and accurate coverage of new aerial imagery for the whole island, against which the land parcels are located.

In Guinea, Astrium has provided lidar-generated elevation models, aerial photography, ground survey and derived mapping to support mining development and infrastructure planning projects.

In Nigeria, Astrium has supplied colour orthorectified aerial imagery at a number of resolutions to support the establishment of a geospatial land information system for Osun.

### Leading-Edge Sensors

Today, Astrium operates a fleet of aircraft and owns a range of interoperable airborne sensors. Furthermore, continuous investments secure that customers can always rely on the latest airborne survey technology, mounted in both fixed wing and rotary aircraft. In addition, they appreciate the professional project management and efficient acquisition and processing schemes Astrium provides.

### Comprehensive Services

Astrium’s services reach far beyond pure acquisition and processing. Mapping, elevation modelling and the creation of 3D city models are only a few examples of value-adding Astrium can offer, in-house specialists in fields such as geology and exploration, environment and land management, insurance, defence and security, risk and crisis planning are available to process and evaluate data in order to extract precisely the information relevant for a customer’s specific purpose. Hosting and distribution services complete the offer.

Rapid and secure delivery in a range of resolutions and accuracies as well as all standard formats is a matter of course to Astrium. Its production and delivery processes being ISO9001:2000 certified.
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