

Geomatics and Visualisation

Arcus has developed a strong Geomatics team encompassing skills in all elements of Geographical Information Mapping Systems, including GIS and data management, cartography, topographical surveying and visualisations in support of the business' extensive experience in development planning, impact assessment and construction. Combining these skills within a single team allows us to offer a comprehensive data information collection, analysis and modelling service to clients across development and asset management sectors.

Capabilities include:

- Topographical surveying using RTK GPS/Total Station
- Elevation Plan and Internal Building Survey
- Laser Scanning and LiDAR surveying
- 2D and 3D Visualisations in AutoCAD 3D Studio Max and Design Suite
- Photography and Visualisations
- Web Mapping using ArcGIS and Flash
- 3D Animation using Autodesk Maya
- Database Management Systems and BIM
- GIS models and tool development
- Photo rectification/Photogrammetry
- Other 2D graphics using Photoshop, Illustrator, Coral Suite and InDesign



Selected Projects

Auchrobert Wind Farm, South Lanarkshire, Scotland: Landscape and Visual impact assessment

Arcus produced intricate landscape maps, wireframes, photomontages and visibility calculations to help with the assessment and visual communication of how this 12-turbine site would affect the surrounding landscape in an already highly developed area. Following Scottish Natural Heritage guidance, this documentation was used to analyse the visual impact of the wind farm as a single entity and as part of all installed, approved and proposed wind farms within 60km of the proposed site.



Consented Section 36 Wind Farm, North - West, Scotland: Hydrological Assessment

The Arcus GIS and Visualisation Team created a model that assessed watercourse sensitivity based on slope and calculated appropriate distances regarding a complex watercourse system.