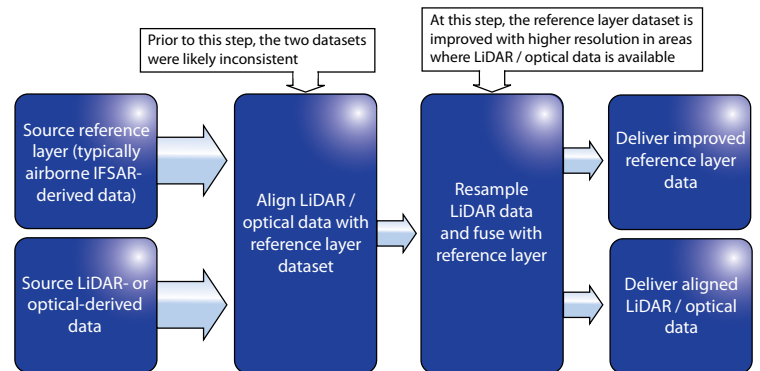


Intermap Technologies® LiDAR / optical data services provides accurate and seamlessly fused mapping products for commercial and government resource management and planning applications at scales of 1:10K or greater. Our services help you maximize your spatial data investment by ensuring that the scale of your data is matched to your unique requirements, and that your existing or newly acquired datasets are seamless and consistent. This allows you to focus on using the data to build geospatial solutions, rather than taking the time to resolve differences between the multiple datasets needed for your mapping program. Our LiDAR / optical data services allow you to obtain more coverage while providing the appropriate accuracy and resolution needed to match the varying requirements of your project area.

The wide-area coverage of Intermap's fused mapping products enables more accurate data in key areas, such as cities, utility corridors, and waterways. Our processes are designed to integrate and align LiDAR- or optical-derived data –supplied by you or an Intermap qualified partner – with an IFSAR- or satellite-generated reference layer. The LiDAR / optical data is aligned to the reference layer to provide a consistent dataset. Then the reference layer is improved with higher resolution data in areas where LiDAR / optical data is available. We use our proprietary process to fuse the two source layers to create a seamless dataset. The end mapping products are the improved reference layer data and your aligned LiDAR / optical data.



Intermap's proprietary integration and fusion process.

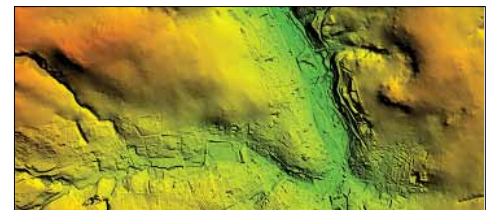
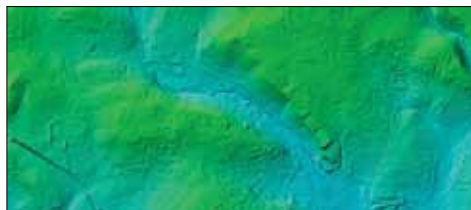
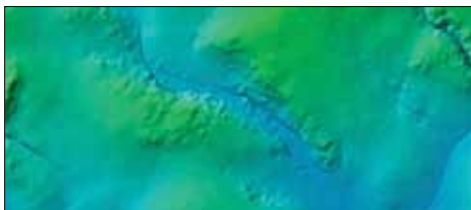
Your project can benefit from Intermap's LiDAR / optical data services:

- You can optimize your project and budget by using the highest-resolution elevation data only where it's needed.
- We can integrate your LiDAR or optical data from past or future projects to continually update your spatial data infrastructure, extending the value and life of your existing data.
- Our ability to provide rapid project turnarounds helps to ensure that timelines stay on target.
- Intermap's ISO-certified production processes ensure consistent-quality products.
- We support your project with timely reporting, technical and end-user training programs, and ongoing support of your data through its entire lifecycle.

All of our data products are accurately geo-referenced to provide a foundation for your spatial data infrastructure requirements.

The superior modeling capability afforded by our LiDAR / optical fused datasets enable a variety of geospatial applications:

- Watershed analysis
- Image rectification
- Asset management and planning
- Base mapping at > 1:10K
- Surface analysis
- Coastal resource management
- Line-of-sight analysis
- Infrastructure planning
- Internet mapping
- Mobility analysis
- 3D visualization
- Precision farming and forestry



A comparison of DTMs with IFSAR-generated reference layer (left), the new elevation data (middle, showing the enhanced level of detail despite the decimation to 5m resolution), and fused DTM (right, showing the detail of a valley bottom fused seamlessly with the IFSAR data in the upland areas).

IDEALLY SUITED FOR WATER MANAGEMENT APPLICATIONS

Fusing LiDAR data with Intermap's IFSAR-generated data makes our fused datasets ideal for water management programs. The high-resolution LiDAR data provides precise definitions of waterways, while the IFSAR-generated data accurately covers floodplains and surrounding areas. The LiDAR / optical fused dataset facilitates improved hydrologic and hydraulic modeling over much larger areas.

TAILORED FOR YOUR PROJECT REQUIREMENTS

Customized to fit your needs, our LiDAR / optical data services allow you to build on your existing data and our other offerings, such as IFSAR- or satellite-generated data. Depending on your project's requirements, the resulting LiDAR / optical fused dataset is typically comprised of the following geospatial data:

- **Digital surface model (DSM)** – a topographic model of the earth's surface created by fusing LiDAR-derived data in areas requiring high precision with IFSAR or other sources. The DSM includes vegetation, buildings, and natural terrain features; the key benefit of the DSM is that it provides the accurate elevation needed for geo-referencing all subsequent layers.
- **Digital terrain model (DTM)** – a topographic model of the bare earth based on the DSM from which vegetation, buildings, and other cultural features have been digitally removed, enabling users to infer terrain characteristics possibly hidden in the DSM.
- **Orthorectified optical image (orthoimage)** – Based on optical satellite image or airborne photography, the orthoimage provides a geometrically corrected optical image that is ideal for visualization and detailed interpretation.

With content customized for your unique mapping project, the specifications for all geospatial data are also tailored to meet your resolution and accuracy needs.

3D MAPPING BUNDLES

Our 3D mapping bundles offering allows you to select the most appropriate solution that aligns with your internal resources and workflow:

- **3D Data Bundle:** the new IFSAR- or satellite-generated data acquired to meet your project requirements, aligned and fused to your LiDAR / optical data to create a seamless DSM.
- **3D Foundation Data Bundle:** includes the components from the 3D Data Bundle to create a seamless DTM, in addition to an orthoimage, contours, and our DEM characterization mask.
- **3D Topo Bundle:** adds thematic layers and other customer-specific layers to the 3D Foundation Data Bundle to provide a comprehensive mapping solution. Recognizing that your organization has specific requirements for your topographic mapping programs, we tailor the 3D Topo Bundle to meet your needs.

LEARN MORE

Let us know how we can put our expertise to work for you. For more information on how you can benefit from Intermap's LiDAR / optical data services, please contact your Intermap representative or visit www.intermap.com.



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