

INTERMAP
Answers Now™

Data Fusion

Combining Elevation Sources

Wide Area Mapping Through Targeted Data Resolution

Intermap's fusion services bring multiple elevation datasets, of differing resolutions and specifications, together into one homogeneous layer. This allows management of resources and budgets by targeting high resolution data in high value areas such as cities, corridors and critical flood plains while providing wider area coverage from a medium resolution IFSAR or low resolution global dataset. Data fusion allows new acquisitions to leverage multiple sensors to reduce project costs while allowing the incorporation of existing discontinuous datasets. This is consistent with a long-term program strategy for managing elevation foundation data.

Key Benefits & Features



Global Base Layers

Benefit from Intermap's suite of highly accurate global datasets.



Seamless Terrain Coverage

Merge disparate datasets to fill gaps for fully integrated mapping solutions.



Targeted Enhancements

Infuse nationwide base layers with higher resolution data in critical areas.



Multiple Input Formats

Let Intermap manage complexities with projections, datums, resolutions, and formats.



Vertical Alignment

Leverage poorly controlled datasets using the vertical accuracy of the base layer.



Cost-Effective Accuracy

Optimize your budget by using expensive high resolution data only where needed.

Data Fusion Process

Intermap's DEM Fusion service optimally combines elevation models from different sources into a seamless dataset. The service is based upon our accurate NEXTMap foundation data that can be used to vertically align other DEMs of higher spatial resolution before seamlessly blending them into the base layer. This produces a consistent homogeneous dataset that enables precise 3D mapping applications. For example, DEM Fusion could leverage traditional aerial photogrammetric DEMs or LiDAR DEMs in urban areas and critical flood plains, while providing highly accurate NEXTMap IFSAR data everywhere else. The seamlessly fused hybrid product enables optimal combination of the data so that the higher accuracy data covers the key areas such as cities, utility corridors, and waterways. Intermap's processes are designed to integrate and align multiple elevation data sources. This allows customers to optimize their project and budget using the highest resolution elevation data only where it is needed.

Potential Applications

- Watershed and flood modeling
- Infrastructure development
- National security and defense
- Emergency Response
- Telecommunications planning
- Natural resource management

High resolution LiDAR (right) seamlessly fused into a lower resolution base map (left).



Intermap's Data Fusion Services are available now. Contact Intermap to access free demo datasets and analytics today!

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