

Optimize Your Geospatial Data.

When your project requires remote sensing, whether using manned or unmanned aerial systems, you need an experienced team handling pre-planning, field work and data post-processing.

Cherokee Nation Technologies (CNT) has extensive experience supporting federal agencies in every facet of geospatial projects. CNT has international experience managing unmanned aerial services for data-intensive mapping and collecting advanced imagery with cost-effective and higher quality results as compared to manned aircraft or satellite. CNT has the team to manage any size federal project.



Complex Geospatial Projects Made Easy

Projects of all sizes become outstanding success stories with CNT's unique geospatial capabilities.

Remote Sensing (Unmanned & Manned Aircraft & Satellite)

- Facilitating FAA air space approvals
- Field-based operations & maintenance
- Leveraging UASs for cost effective, high resolution information collection
- Program development, strategies & roadmaps
- Proof of concept coordination, testing & evaluation
- Systems engineering – alternative analysis through sustainable operations
- Transitioning to “fully operational capability”



Geospatial Data Management Services

- Data infrastructure management (tier 1, 2 & 3 storage, networking, security, software, load balancing, COOP, etc.)
- Data life cycle management (collection, verification & validation, de-duplication, analytics, storage, processing, usage, archiving, destruction, etc.)
- Data processing, compliant with Federal Geographic Data Committee (FGDC) standards



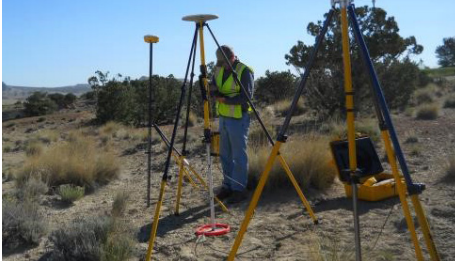
Training & Workshops

- Geospatial data analysis
- GIS systems
- Post-processing data
- Sensors, cameras, imaging
- Unmanned aircraft



Surge-based Technical Support

- Database specialists
- GIS specialists
- Remote sensing specialists
- Training specialists
- UAS pilots



Remote Sensing Support

- Aircraft management
- Certified operators
- End-to-end data management
- FAA permissions
- Ground command & control
- Liability & insurance
- Operational flight & safety plans
- Permissions & compliance
- Program management
- Sensor management

Sample Deliverable Package (UAS)

Data Collection Options

- 3-band natural color (RGB) digital, frame, overlap for bundle block adjustment 5-10 cm GSD
- Color infrared (CIR) digital, frame, overlap for bundle block adjustment 5-10 cm GSD
- Light detection & ranging LiDAR

Ground Control Options

- Derived from Google Earth or equivalent
- Survey quality: establish 5-10 photo-identifiable ground control points in study area

Photogrammetric Data Processing Options

- Digital surface model generation
- LiDAR data processing (or structure from motion) to produce LAS point cloud
- Orthorectified mosaic GeoTIFF images

Mission Support

- Assessment of invasive species
- Conservation planning & compliance
- Emergency watershed & disaster response support
- Wildlife habitat management
- Easement monitoring
- Earth, weather & water science support



Cherokee Nation Technologies is owned by Cherokee Nation Businesses – the economic engine of Cherokee Nation, the largest Native American tribe in the U.S. One-hundred percent of the company's profits supports future business investments and the well-being of the tribe's citizens through health care, education and job creation, ensuring better lives for Cherokees today and tomorrow.

Call today to put CNT to work for you.

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