

# AIS



## Advanced Information Solutions

Ball Aerospace delivers world-class advanced geospatial-intelligence (GEOINT) technologies and services to the intelligence community and the warfighter. We provide cost effective, agile and innovative solutions supporting the needs of the GEOINT community.



*Credit (Left): Digital Globe*



**GO BEYOND WITH BALL.®**

## Our Role

Ball produces timely, accurate and actionable information through the fusion of GEOINT data and development of open enterprise architectures. We develop cost-effective software system solutions for operational environments that enable big data collection, processing, analysis, transport and dissemination of time-sensitive and content-dominant information.

Our scientists research and develop innovative GEOINT exploitation algorithms and techniques; our developers efficiently transition these algorithms into operational intelligence production systems; and our analysts leverage government and commercial data to produce 24x7 intelligence value for our warfighters.

### Systems Integration & Software Development

Ball is a leader in ingesting, managing, processing and exposing relevant data in a geospatially enabled manner.

- Open architectures, open standards and open source applications
- Event Driven Architectures (EDAs) using DevSecOps processes and CI/CD environments
- Cloud technology development and integration (C2S, GovCloud, AWS, MS Azure)
- Big data processing infrastructure
- On-board and real-time processing and exploitation
- Ground processing and exploitation tools
- Task management/workflow systems
- End-to-end Tasking, Processing, Exploitation, and Dissemination (TPED) solutions
- 3D visualization and animation

### Enterprise Search & Discovery

- Enterprise data management
- Enterprise and federated search capabilities
- Transforms data holdings for ingesting to the Intelligence Community (IC) Cloud

### Information/Services Systems

- Commercial Software-as-a-Service (SaaS) offerings with Machine Learning (ML) and customized analytics
- Workflow and requirements management
- Hardware and software requirements development and continuous improvement
- Edge, Cloud and On-Premise compute

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## Customers

Ball provides a wide range of air, space, cyber and counterspace engineering expertise with intelligence analysis services. Our customers include:

- National Geospatial-Intelligence Agency (NGA)
- National Reconnaissance Office (NRO)
- National Air & Space Intelligence Center (NASIC)
- U.S. Space Force – Space Rapid Capabilities Office (SpRCO)
- Defense Advanced Research Projects Agency (DARPA)
- Multiple U.S. Air Force organizations
- Multiple Combatant Commands

### Scientific Innovation

Our innovative research solves our nation's most pressing GEOINT challenges.

- Sensor characterization
- Electro-optical, infrared and atmospheric phenomenology
- Modeling and simulation
- Advanced processing and exploitation algorithms
- Space and counterspace analysis
- On-orbit sensor calibration

### GEOINT Data

- Optimizing remotely sensed data
- Data analysis processes, technologies and tools
- Service-enabled GEOINT data prototype
- 24/7 operations

### Persistent Infrared (PIR) Expertise

- Experience developing and deploying PIR capabilities within Secure and Commercial Cloud Solutions
- Leader in automation of PIR algorithms and techniques
- 30-year legacy providing PIR capabilities

### Operational Support to the Warfighters

- GEOINT production and analysis support (PIR, TIR, Spectral, GMTI, OTH, MASINT, SAR)
- Integrated forensic analysis