



NATIONAL SECURITY SCIENCES

Geospatial Artificial Intelligence

Executing rigorous science and automation for real-world impact

INTRODUCTION

Complex global challenges can call for advanced, calculated solutions. ORNL's Geospatial Artificial Intelligence capability draws from applied mathematics, machine learning, statistics and engineering to create novel geospatial analytic methods for information that improves our understanding of global environments.

MISSION

Exploring complex geospatial analytic workflows to deliver actionable insights for real-world human and global security applications.

IMPACT

- Improving urban planning, emergency management, disaster response and military precision
- Support for navigation systems, early detection of potential earthquakes, and measurement of changes in water patterns
- Developing scalable ways to characterize socioeconomic neighborhoods for economic stimulus, unstructured settlement mapping, and population distribution studies



