



BrightWorld Labs



GIS GEOGRAPHIC INFORMATION SYSTEMS IN **SECURITY** WORKSHOP



BrightWorld Labs

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GIS in Security Workshop

- ✓ Monitor, count, and control **crowds**
- ✓ Uncover **hotspots** and patterns in **crime**
- ✓ **Situational awareness** and **sense-making**
- ✓ **Real-time** monitoring and **tracking of vehicles**
- ✓ Manage and monitor **security camera locations**
- ✓ Urban **line-of-sight** analysis for camera placement
- ✓ Identify **anomalies** in data that are **security threats**
- ✓ See **underground infrastructure** or **inside building layouts**
- ✓ **Easy** to understand **visual** display of **big data** through **maps and charts**



These are just a few examples of how Geographic Information Systems (GIS) has helped organizations, emergency responders, governments, and military identify, manage, and respond to security threats. A GIS is commonly divided by:

- ① A **central data repository** where diverse **big data** from sensors like GPS, IoT, satellite imagery, LiDAR, and even social media are joined by **location**.
- ① **Intelligent analysis** of data using a combination of **mapping, modern analytics, data science, artificial intelligence**, and **search and filter** can produce knowledge and insights.
- ① **Visualization** through **maps, charts, 3D, virtual reality, augmented reality** using **desktop, web, mobile, other handhelds**, and **autonomous devices** allow human-in-the-loop analysis to give decision-makers actionable knowledge.

