

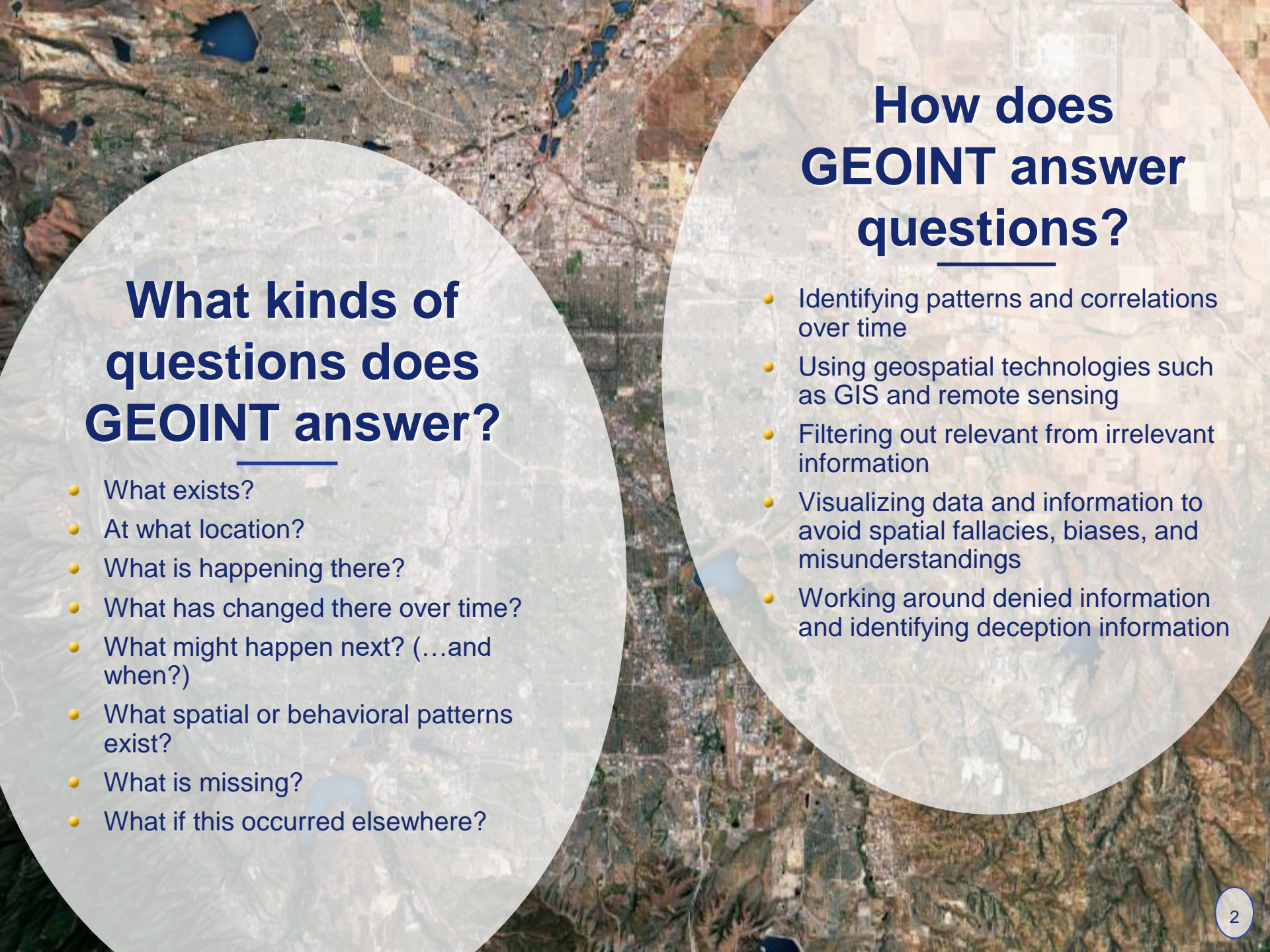
Earth Observation from Space to Surface

Prepared for GeoGov Summit 2023

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What kinds of questions does **GEOINT** answer?

- What exists?
- At what location?
- What is happening there?
- What has changed there over time?
- What might happen next? (...and when?)
- What spatial or behavioral patterns exist?
- What is missing?
- What if this occurred elsewhere?

How does **GEOINT** answer questions?

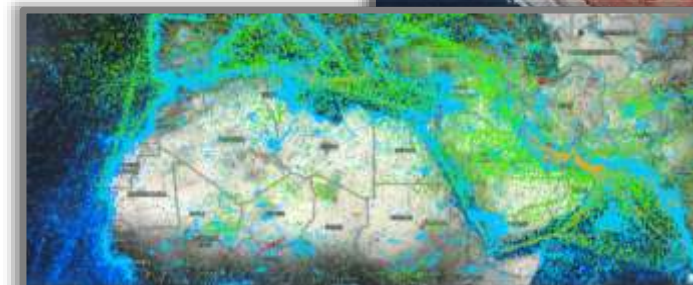
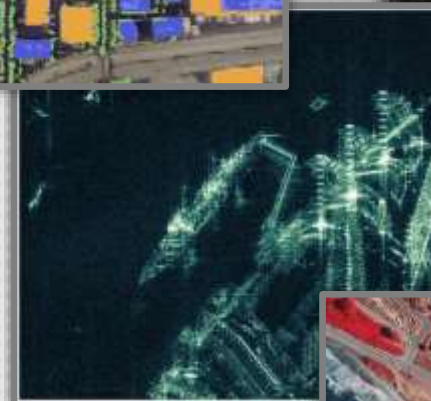
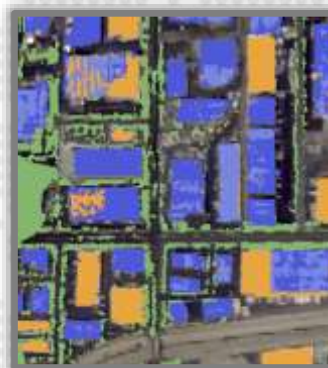
- Identifying patterns and correlations over time
- Using geospatial technologies such as GIS and remote sensing
- Filtering out relevant from irrelevant information
- Visualizing data and information to avoid spatial fallacies, biases, and misunderstandings
- Working around denied information and identifying deception information

Types of Earth Observation

Platforms

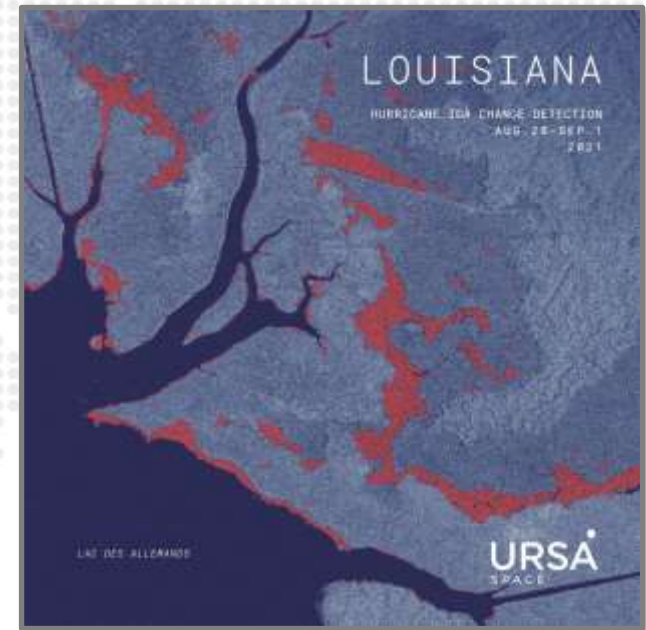
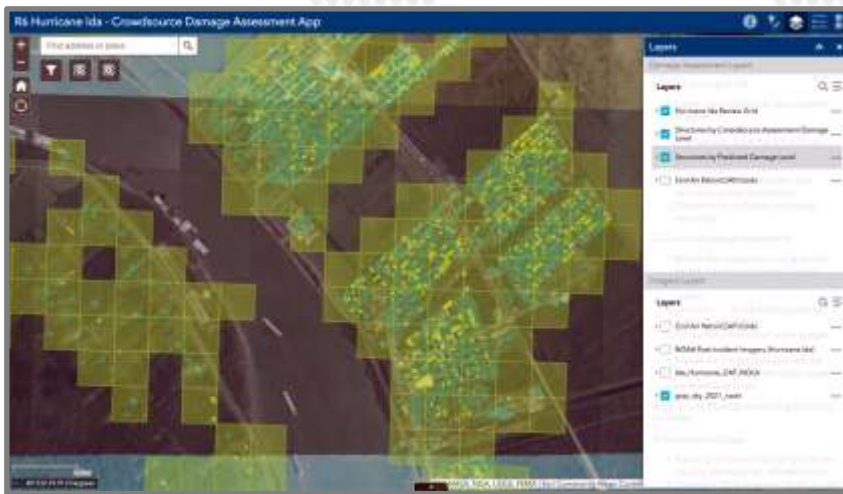


Modalities



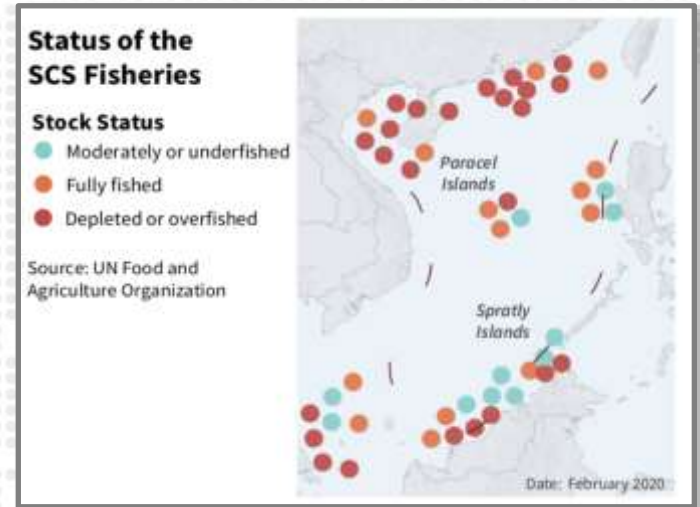
Earth Observation for Environmental Monitoring

- Environmental Changes
- Disaster Management
- Climate Studies



Earth Observation for Economic Indicators

- Crop monitoring
- Yield Prediction
- Food Security Assessments
- Urban Planning and Infrastructure
- Land-Use



Community Challenges

- Data Volume and Processing
- Data Privacy and Security
- Cost and Accessibility

Future Trends

- 
- Resolution and Revisit
 - Fusion with other disciplines
 - AI/ML and IoT
 - Partnerships

Thank You!

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