



CLIENT CASE STUDY

**Transforming Emergency Response:**  
**How The City of Kelowna**  
**Partnered with Spexi to**  
**Deliver Rapid & Accurate**  
**Damage Assessment as a**  
**Result of Regional Wildfires**





In 2023 the City of Kelowna was significantly affected by regional wildfires and the city needed a way to immediately assess the extent of the damage. They also needed a timely solution in order to provide critical updates to concerned residents on whether their property had been affected.

Normally, the city would have relied upon satellite imagery to survey and assess the damage. However, in this instance, satellite imagery posed several drawbacks:

- **Obscured View:** The smoke from the wildfires blanketed the region, and obscured the view, rendering satellite imagery ineffective.
- **Lower Resolution of Satellite Images:** Satellite images lacked the resolution needed for detailed assessment.
- **Time-Consuming Procurement:** The time required to obtain satellite imagery was too long for the immediate needs of the city.

Faced with these challenges, the City of Kelowna partnered with Spexi, leveraging the Spexi Network to capture detailed, high-resolution aerial imagery.

The Spexi Network was activated and ultimately captured images of approximately 440 acres in a single day. Data was delivered to city officials within 12 hours of successfully capturing images of the affected areas.

### Initial Engagement Highlights

<b>Image Resolution</b>	Up to 2.8cm oblique images captured at 80m
<b>Area Covered</b>	440 acres
<b>Total Spexigons Completed</b>	20
<b>Speed of Data Capture</b>	1 Day
<b>Speed of Data Delivery</b>	Delivered within 12 hours of capture





## Spexi provided several advantages over traditional satellite imagery:

- **Speed of Data Capture:** The Spexi Network was quickly deployed to capture aerial imagery, and scanning the affected area was completed in a single day.
- **Speed of Data Delivery:** Data was in the hands of city administrators within 12 hours of finalizing data capture.
- **High-Resolution Detailed Imagery:** Spexi's drones delivered up to 2.8cm oblique images. High-resolution, detailed imagery that was crucial for accurate damage assessment.
- **Unaffected by Visual Obstructions:** Drones were able to capture images despite the lingering smoke that blanketed the region.
- **Cost-Effective:** The use of drones was cost-effective compared to procuring bespoke satellite imagery.



Working with Spexi is transforming both our emergency response and field operations.

The rapid, high-resolution aerial imagery enabled us to quickly assess wildfire damage and keep our residents informed.

Spexi's technology has proven invaluable for both crisis management and daily urban management.

**Cheryl Trent**

City of Kelowna - Data Services & Analytics Manager

The city's work with Spexi resulted in accurate damage assessments and more importantly, they were able to provide residents with the information they needed regarding their property.

The partnership between the City of Kelowna and Spexi demonstrated how innovative use of Spexi technology could be applied to emergency use cases.



# Learn How Spexi Can Help Your City



## About Spexi

Spexi delivers standardized ultra-detailed Earth imagery that traditional methods such as fixed-wing aircraft and satellites cannot deliver.

Spexi global network of drone pilots capture highly detailed data that governments, private enterprises, and technology companies rely on to make better decisions and fuel next generation AI-powered applications.

## Book a Demo

To learn how Spexi can help your city, contact:

[sales@spexi.com](mailto:sales@spexi.com)

