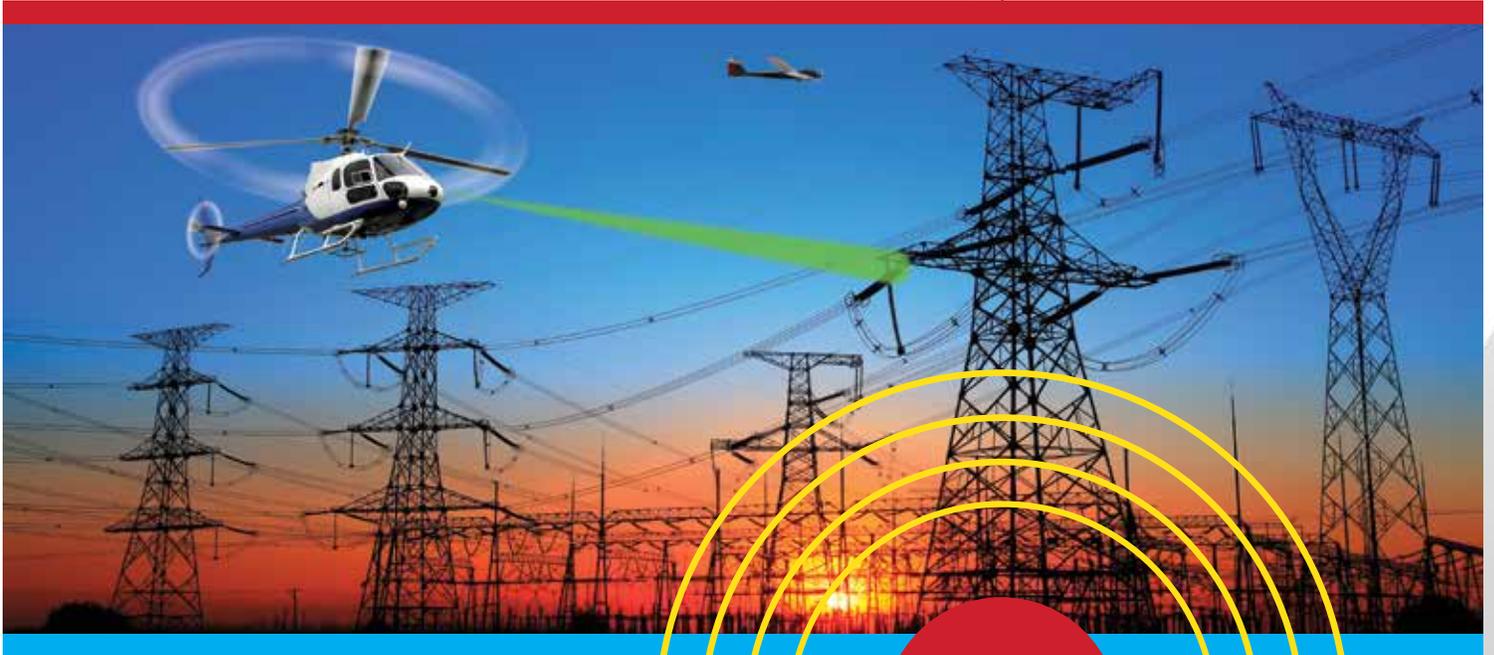


# AERIAL TRANSMISSION LINE ASSESSMENTS

**4 LEVELS  
OF INSIGHT**



**IDENTIFY LINE CONDITIONS THAT ARE UNDETECTABLE BY VISUAL, IR, OR OTHER METHODS**

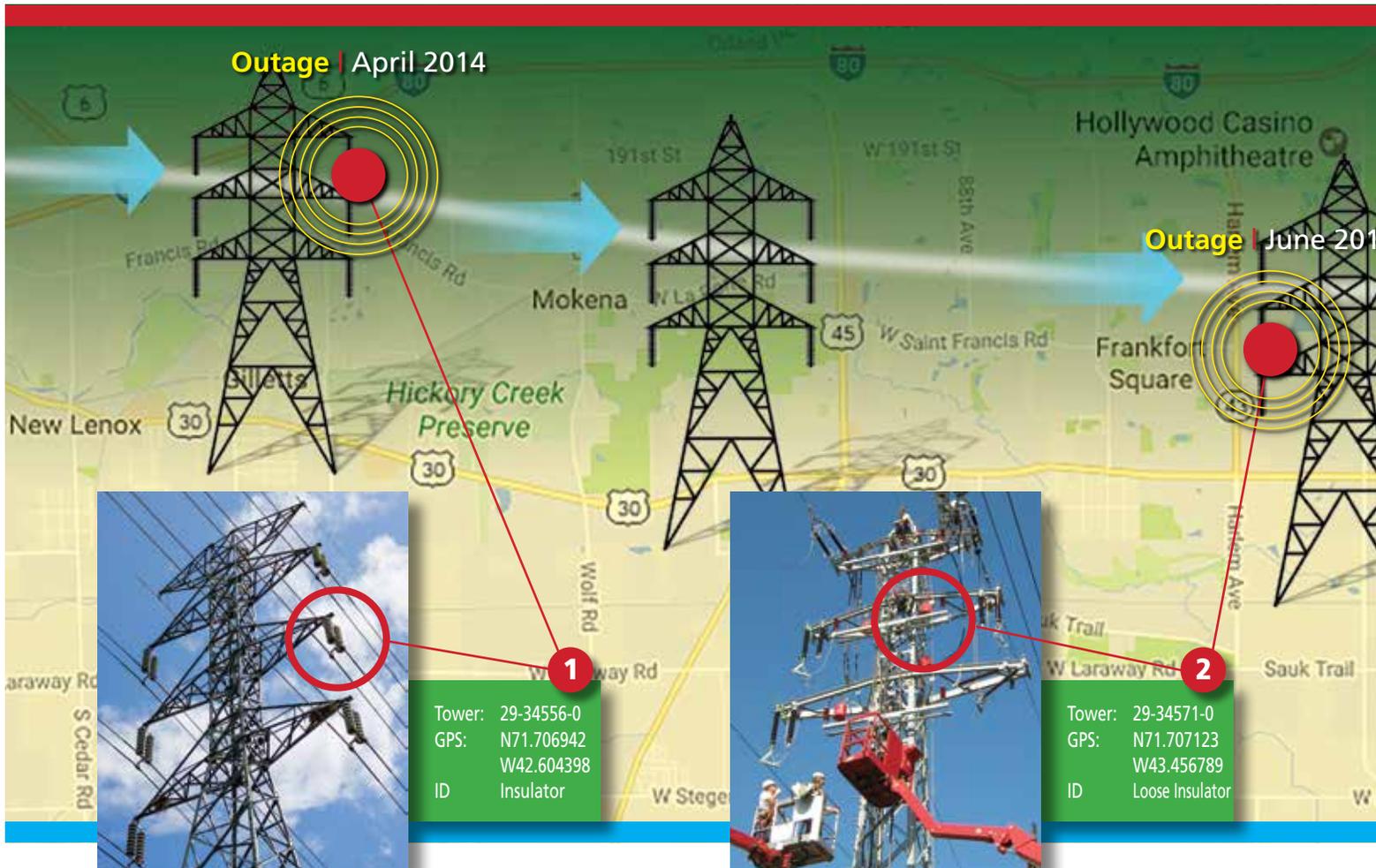
- PROPRIETARY DATA
- NEW INSIGHTS
- BETTER COMPLIANCE
- CAPITALIZED USAGE



24/7-365 Access to data through web portal

**Exacter**

# CORRELATING HISTORICAL OUTAGE DATA WITH



## Choose from 4 Levels of Assessment

Placing an Exacter system on board your scheduled flight, or as part of a planned drone survey provides unique identification of problematic conditions that impact system performance and reliability. Based on your objectives, choose from 4 levels of assessment data, analysis, and field locating. (see below)

### Level 1: Areas of Concern Assessment

During line flyover, Exacter Technology identifies problematic conditions present on the transmission system and correlates emission data with the Exacter Failure Signature Library. The data is used to create Areas of Concern, 1-3 mile sections of circuit where problematic conditions are detected.

- (a) First level of survey analysis
- (b) Trend information to monitor circuit conditions and identify developing problems
- (c) Correlate with interruption data to determine if further investigation is necessary.

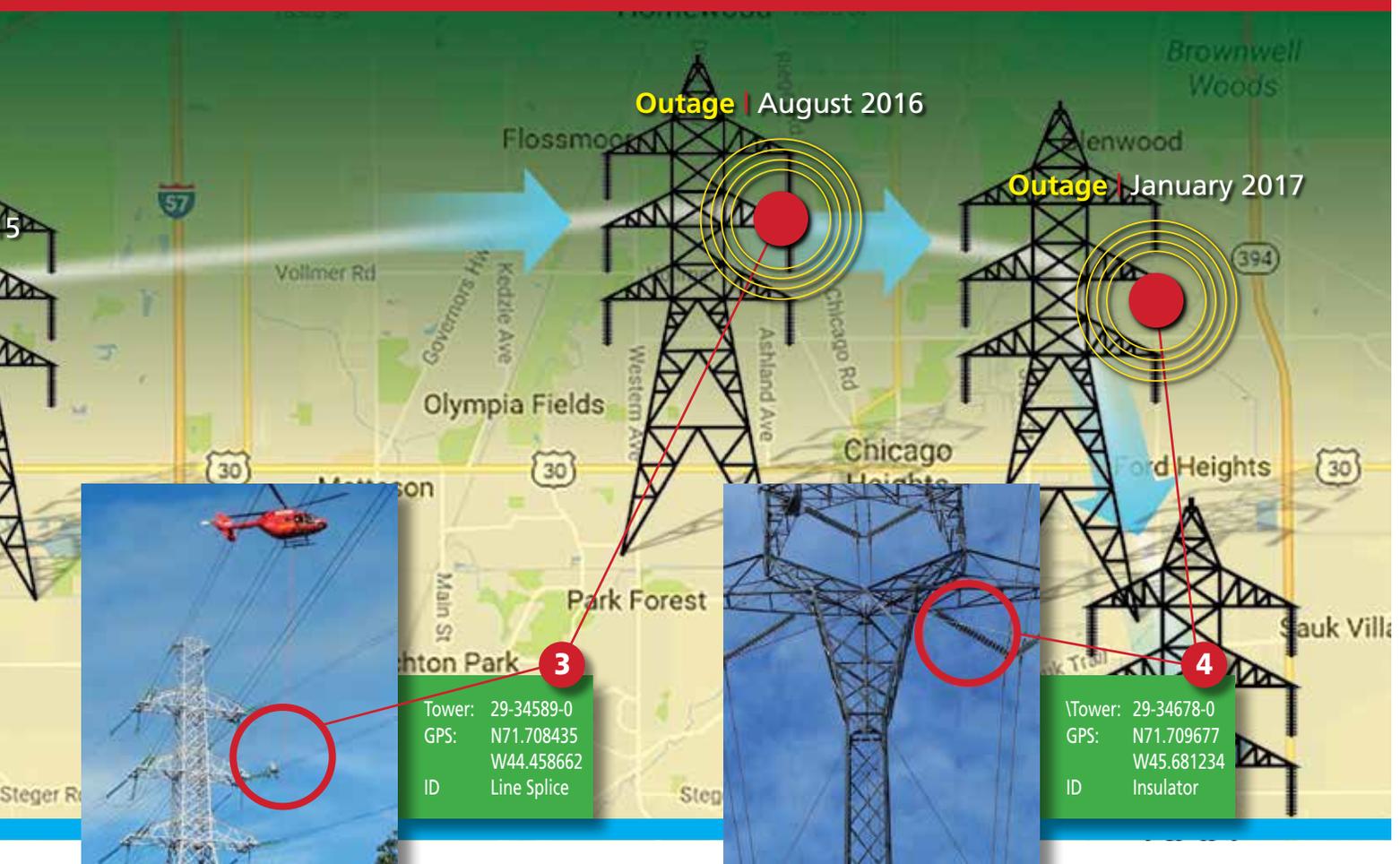
## Proprietary Data & Insight Not Available from IR or Visual Methods

Exacter finds problematic conditions visual patrol, IR, or other inspection methods do not detect. Arcing, leaking and tracking on overhead components that are rarely detected visually and in most cases do not leave a heat signature, are automatically identified and mapped during flight.

### Level 2: High Definition Structure Analysis

The High Definition Structure Analysis (HDSA) is the second level of survey analysis. When applied to the Areas of Concern, Exacter's proprietary analysis will identify the structure locations where problematic conditions are present. This precise and actionable information anditiollows the utilities to further inspect the structure and perform necessary maintenance operations.

# EXACTER DATA FOR ROOT CAUSE IDENTIFICATION



## New Data & Visibility Mean Better Compliance

Using Exacter's proprietary findings that reveal undetected deterioration and degradation present on your transmission structures delivers a new level of quality control/quality assurance compliance. This new visibility into points of risk enables you to remediate potential breaker trips before they occur which positively impacts overall system reliability.

## Analytics for Root Cause Identification

The real value of Exacter data is the unique insight and visibility into root causes it delivers when you compare the locations of your existing outage data with Exacter's Field Confirmation Data. By doing this, you can begin to correlate historical breaker line trips with Exacter's confirmed problem identifications present on the transmission line – allowing you to remediate at-risk conditions before another outage occurs.

### Level 3: Ultrasonic Acoustic Field Confirmation

Exacter Field Engineers or trained utility personnel visit the locations and structures identified by the High Definition Structure Analysis. Using Ultrasonic Acoustic technology, engineers confirm and pinpoint the component responsible for the problematic conditions. Field engineers take a high-resolution image of the identified component and record attributes including GPS coordinates, structure ID tag, closest physical address, and description of component location on the structure.

### Level 4: Root Cause Correlation Analytics

When historical outage data is overlaid with Exacter findings, you can begin to correlate breaker trips with current conditions of component arcing present on the line. By identifying root causes, remediation can take place before another outage event. Exacter's analytics team can provide GIS data and work with you on this analysis.

# WHY NOT GET NEW, USEFUL DATA FROM CURRENTLY SCHEDULED FLIGHTS?



## You're already flying the lines

Why not get new visibility into points of risk on your system? Wouldn't having actionable data of specific problematic locations be helpful? And imagine... being able to trend the Exacter data and then correlate it with your existing data for better compliance. It's easy. And it's automatic... when Exacter is on board.



## Unique Benefits of Exacter Transmission Assessments

- New, Proprietary Data
- Problematic Discoveries NOT Found by IR or Visual Methods
- Ability to Pinpoint the Exacter Arcing Component
- Automatic Data Collection with No Human Error
- Ability to Capitalize Exacter Usage



## New Visibility into the Health of Your Transmission System

Because Exacter finds problematic conditions that are not detected using IR or visual methods, you receive new insight into the true health of your system. In addition, you have the option of having Exacter pinpoint the exact component emitting the arcing failure signature.

***"RF arcing emissions are the most indicative sign of deteriorating and degraded overhead electrical equipment."***

Dr. Stephen Sebo,  
The Ohio State University  
High Voltage Laboratory

# **Exacter**

*Delivering Conditions-Based Grid-Health Intelligence*

[www.exacterinc.com](http://www.exacterinc.com)

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