XEOS Aerial photography - Lidar
AI mapping

How does our AI prevent power outages caused by hazardous trees?



What are the two levels of hazardous vegetation analysis?



1 – Clearance analysis around conductors
Identification of trees located within the clearance zone defined by each network operator.

2 – Hazard tree analysis
Identification of trees located along the right-of-way that could reach the conductors if they fall.

Clearance analysis around conductors

Clearance analysis automatically maps areas where vegetation is too close to conductors.

These locations represent a high risk of causing power outages.



Hazard tree analysis

Through AI-based mapping of hazard trees, we:

- precisely locate them
- identify their species
- assess their health condition



How to prioritize trimming interventions?



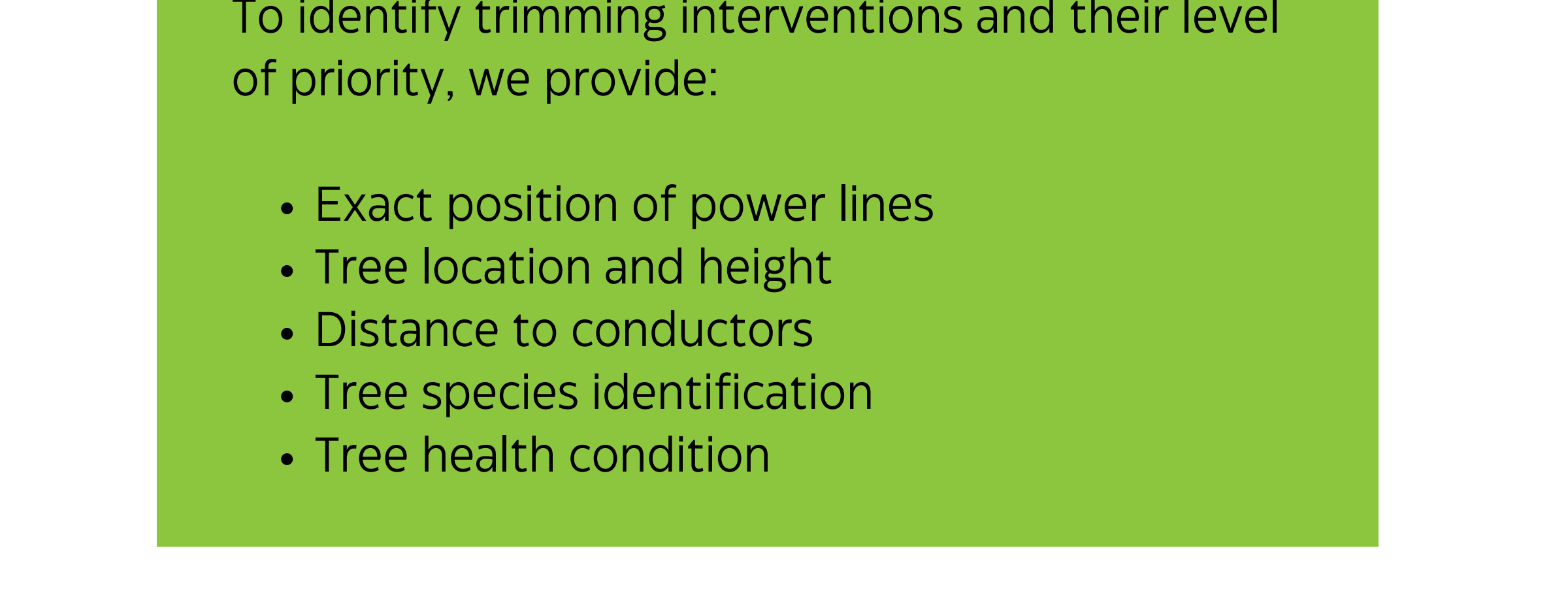
Priority 1: All trees encroaching into the clearance zone

Priority 2: Dead or diseased hazard trees located along the right-of-way

What cartographic information is produced?

To identify trimming interventions and their level of priority, we provide:

- Exact position of power lines
- Tree location and height
- Distance to conductors
- Tree species identification
- Tree health condition



XEOS

Contact our vegetation management specialists for electric power networks.

xeosimaging.com

