

## **Project goals**

- ► Integration Easy integration with enterprise asset management software.
- ► Risk management The timely identification and removal of encroaching vegetation reduces the risk of network interruptions caused by vegetation.
- ▶ OPEX optimization Reducing costs through the improved planning of resources, tools and external services.
- ▶ Optimal intervals Optimization of maintenance intervals through the optimization of the frequency and types of activities.
- Simple administration The straightforward design simplifies the handling of complex information and use.
- Sustainability Optimizing activities can minimize the impact on nature and improve land usage.
- ► Network reliability A reduced number of outages caused by trees and planned outages for regular vegetation maintenance.
- Analytics The application enables a detailed view and analysis of data on vegetation and activities.



## **Data sources**

















**LIDAR** 

**Cadaster** 

**Tree species** 

Weather

**Protected areas** 

**Drones** 

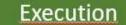
**Satellite** 

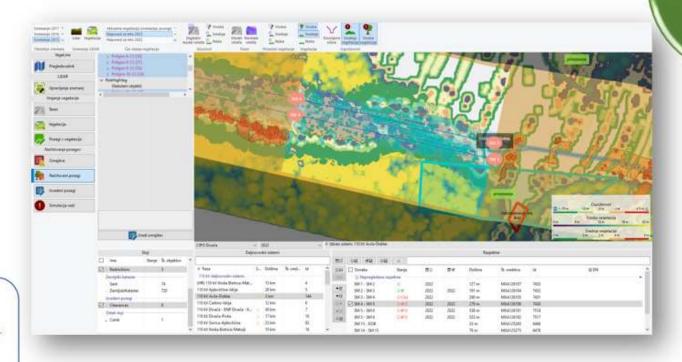
- ► Protected areas
  - ► Protected woods
  - Nature 2000
  - ► Ecological important areas
  - **.**..

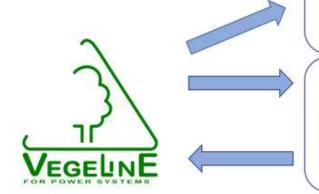
- **►** Weather
  - ► Air temperature
  - ► Precipitation
  - ► Sunshine duration

- **►** Land
  - ► Slope
  - ► Soil type

## **Executing activities**





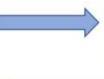


Geographic information system



Enterprise asset management





Mobile application





**Successes:** Failures:

Risk management
Optimal intervals
Simple administration
Sustainability
Network reliability
Analytics

Integration

OPEX optimization

It's not so much a failure in integration and optimization, but rather a failure in meeting the timeline :)

The most distinguishing feature is the use of predictive analytics and advanced regression models to predict vegetation growth in the next maintenance cycles.

