

# LINIApower

LINIApower is a web-based platform for generating drone flight routes based on digital models. It enables reliable and accurate flight route generation as the basis for safe, quality inspection.

for a first-class and safe inspection. Without high-resolution images of the infrastructure, it is impossible to make informed decisions about its condition. In addition, every grid operator is responsible for the safe operation of thousands of pylons. A sophisticated platform is required to consider the individual design of each pylon, while ensuring scalability across large networks.

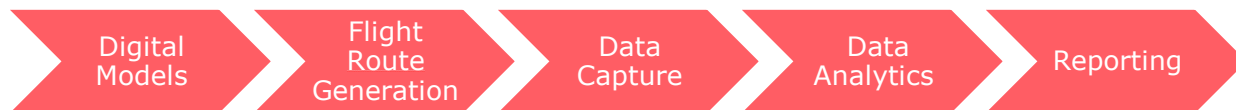
Precise flight routes enable the automation of drone flights. Based on this information, maintenance and refurbishment can be planned and investments can be made in a cost- and time-optimised manner.

## **Generate precise flight routes**

LINIApower is a web-based platform for generating drone flight routes based on digital models. Reliable and precise flight routes are the basis for safe and high-quality inspections.

Safety distances and precise image sections are calculated using point clouds (LiDAR). This enables a standardised aerial survey of facilities with high-resolution cameras and the monitoring of changes in condition over time.

## Process for automated inspection



### Automating the inspection process

Critical infrastructures such as high-voltage lines, railway lines and power plants face major challenges in terms of operation and maintenance. Many lines need to be renewed, the networks are under greater strain, and it is difficult to switch off for maintenance work. Inspections by helicopter, ground inspections or ascents are costly and labour-intensive and harbour risks for employees.

With automated inspections, we offer operators of critical infrastructure a proven alternative. Our artificial intelligence (AI)-based software for collecting and analysing data offers enormous advantages.

The high degree of automation ensures that maintenance budgets are used in the right places and supply security is increased.

### Your benefits

- Automated process
- Standardised data
- Repeatable inspections
- Precise flight routes

### Who we address

Our services are aimed at electricity grid operators and companies that provide inspection services to electricity grid operators.

### What we deliver

Our LINIAair, LINIApower and Insights software tools are revolutionising the way assets are monitored and maintained. By using drones, even in hard-to-reach places and during operations - quickly, safely and reliably.

**Software:** Our LINIApower and Insights platforms and LINIAair drone software are available as Software-as-a-Service (SaaS) solutions.

**Services:** Our services cover all steps of automated inspection - from flight route generation and drone flights, including obtaining the necessary flight permits, to data analysis and reporting.

**Modularity:** Our services have a modular structure and can be tailored to meet your specific requirements. For example, you can purchase the drone software including flight routes and carry out the drone flights and data analyses yourself. Or, if required, you can purchase the end-to-end service.

### Want to know more?

Get in touch with us and benefit from our years of experience and expertise. We are a strong, interdisciplinary team of application, engineering, data science and software development experts.



**Axpo Grid AG**  
Parkstrasse 23, 5401 Baden  
T +41 56 200 31 11, [digitalsolutions@axpo.com](mailto:digitalsolutions@axpo.com)  
[axpo.com/digital-solutions-grid](http://axpo.com/digital-solutions-grid)

