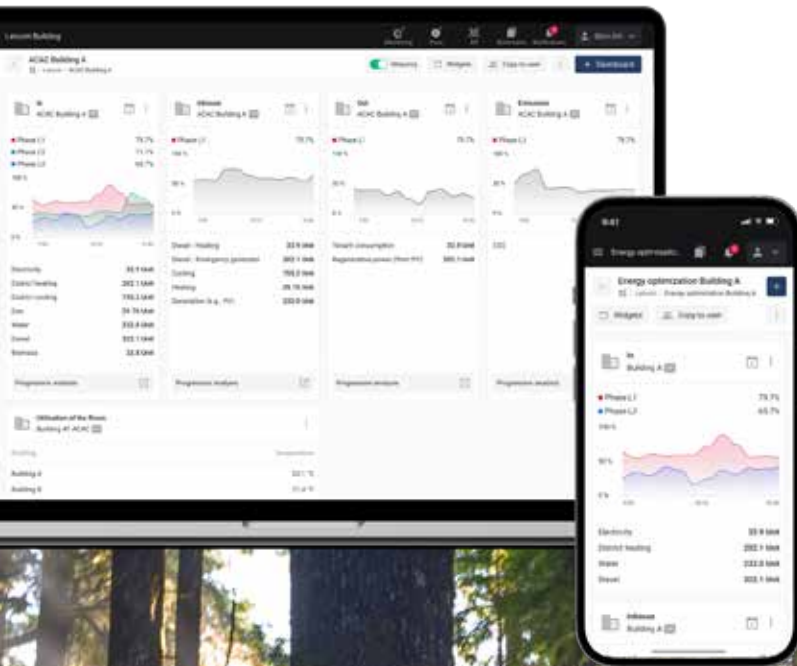


Infrastructure Management Energy Monitoring & -management Platform

The efficient energy management tool enables property operators and FM service providers to operate efficiently and save costs. Create a reliable database for sustainable decisions and other infrastructure use cases.



DATA-BASED DECISIONS

Transparent access to the infrastructure down to the individual meter for fact-based decisions

CALCULATE VIRTUAL DATA POINTS

Calculate and monitor values such as COP, PUE and efficiencies with No-Code directly in Eliona

USING OPTIMISATION POTENTIAL

Identify conspicuous consumption and optimise it directly in the infrastructure

INDIVIDUAL DASHBOARDS

Get easy access to your data and visualise KPIs in individual dashboards

INTEGRATE NON- CONNECTED METERS

Conveniently integrate non-connected meters via QR code (incl. value check)

ANALYSIS AND REPORTING

Receive analyses and individual reports regularly and automatically by mail

Reduce energy consumption, cut operating costs

The «Energy Monitoring» solution gives you a complete overview of the energy situation of your infrastructures. This enables you to precisely monitor and analyse energy consumption, validated data for external reporting and optimisation directly at asset level.

With «Infrastructure Management Energy» you get:



A cloud or on-premises instance of Eliona

You get unlimited access to an Eliona instance in the cloud or on-premises. Eliona is the basis for bundling equipment data, making it available in other applications and utilising your building efficiently.

Expert workshop with analysis

Our consultants work with you to analyse your individual asset, system and process landscapes and identify the best way to implement Eliona in your infrastructure.



Connectivity and data modelling

Our experts develop a customised data model for you. Individual data points in your infrastructure become assets managed in Eliona.

Creation of a systematic asset structure

Eliona creates semantic interoperability between your BMS and your CAFM or ERP application and closes the gap between these actually incompatible systems.



Data plausibility checks and cleansing

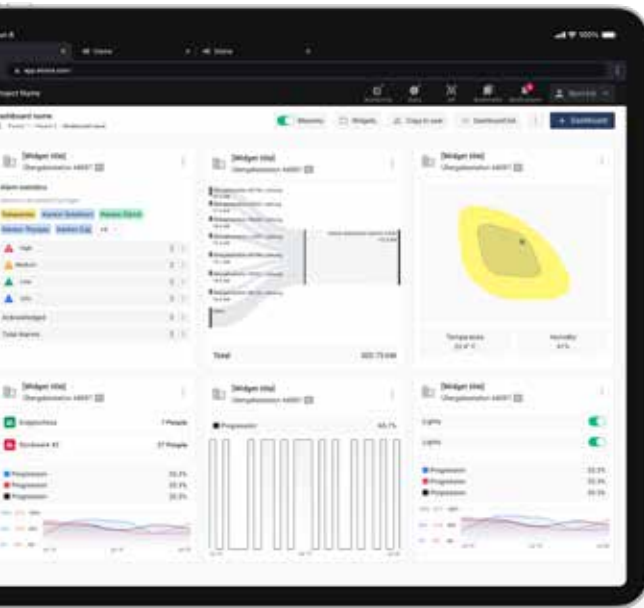
We create logics for you to check data and recognise incorrect values, e.g. counters running backwards. With data adjusted for weather influences, consumption can be analysed even more precisely.

Integration of non-connected devices and customised dashboards

You can integrate non-connected meters into Eliona by entering manual values. You can track all values live on customised dashboards and display them in the form of Sankey diagrams, for example.

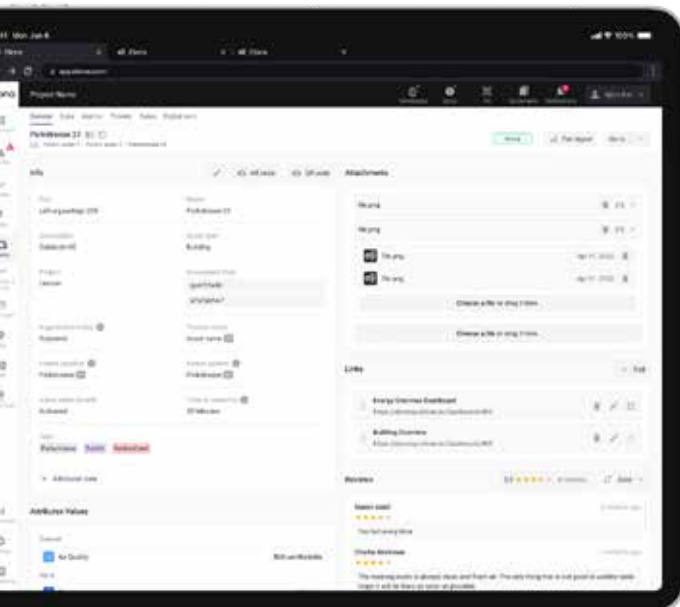
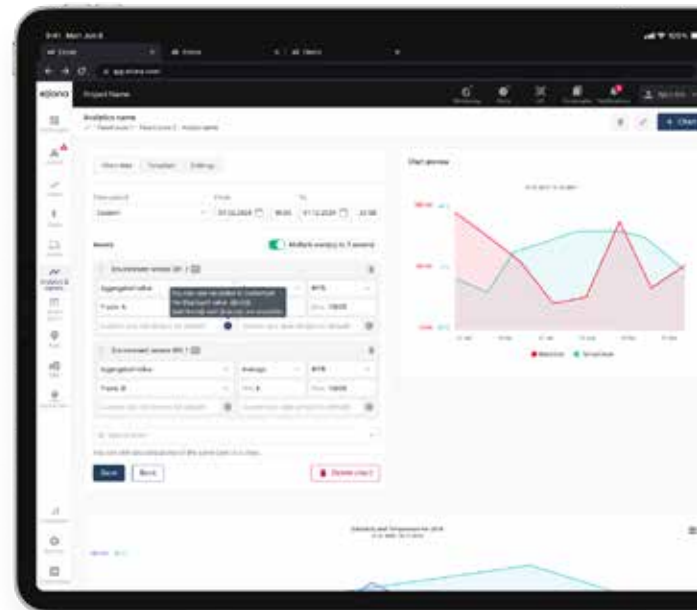


Infrastructure Management Energy



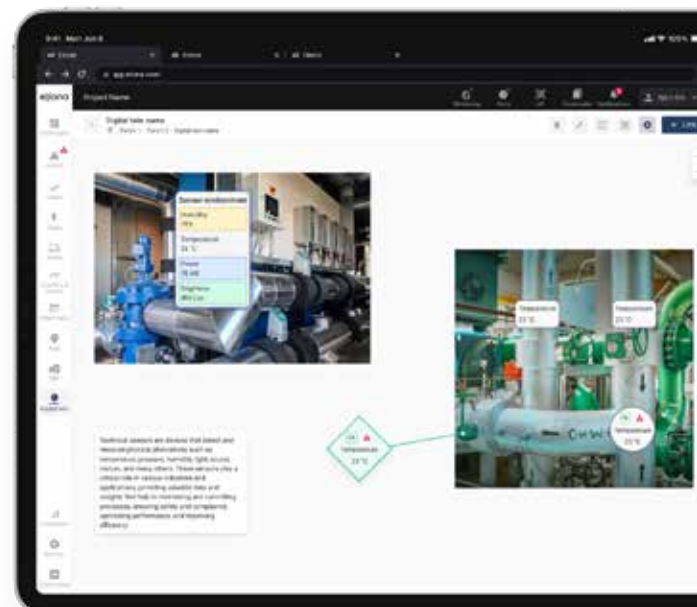
Customisable dashboards for monitoring and managing the infrastructure

Analysis and reporting functions with countless diagram and table templates as well as automated reporting dispatch.



Asset management with detailed information, live data, AR functionalities and much more.

Integrate non-connected meters via substitute value input and display data via digital twin display.



Technical data

Interfaces

- MQTT
- Webhook
- RESTful
- Kafka
- OPCUA
- Modbus
- M-BUS
- Niagara

Platform

- Ubuntu nativ / VM / Container technology
- PostgreSQL & TimescaleDB
- NGINX

Data functions

- Display of meter readings and consumption
- Data at fixed time intervals (15 / 60 min / 24 h / 7 days etc.)
- Additional data Monitoring of temperatures, currents etc.
- Virtual data points (COP, efficiency, PUE etc.)
- Flexible aggregation of data (temporal and functional)
- Monitoring of meter functions with messages and alarms

Data import

- Data import .csv
- Data import .xml
- Data import .json
- Data transfer FTP, SFTP, HTTP
- Data import via mobile reader

Data plausibility checks

- Replacement value generation
- Meter change and overflow
- Gaps
- Meters running backwards
- Abnormal consumption
- More complex plausibility checks
- Weather data, COP, efficiencies

Analysis and reports

- Automated reports by e-mail
- Granular analyses of assets
- Energy signature
- Multi-year comparison

Additional functions

- Weather forecast
- Forecast system AI Dabbel
- Forecast system Meteoviva
- Tariff models
- Data on service charge billing