PowerAiD™

Til Smart Streetlights

DATA
DREVET
DYNAMISK
DÆMPNING
-som en service

Patentanmeldt **PowerAiD™** revolutionerer gadebelysning ved **dynamisk dæmpning** baseret på **live trafikdata**, optimering af **energibesparelser**, samtidig med at **trafiksikkerheden** sikres. Afhængigt af placering kan trafikdata fra **én sensor** repræsentere **50-200** gadelamper.

CityManager CMS

v11.01.2024

Who are we?

Specialist in Smart Outdoor Lighting

We enable cities to take full control
of their Lighting Infrastructure
based on Open Standards

Urban Streets

Industrial Zones

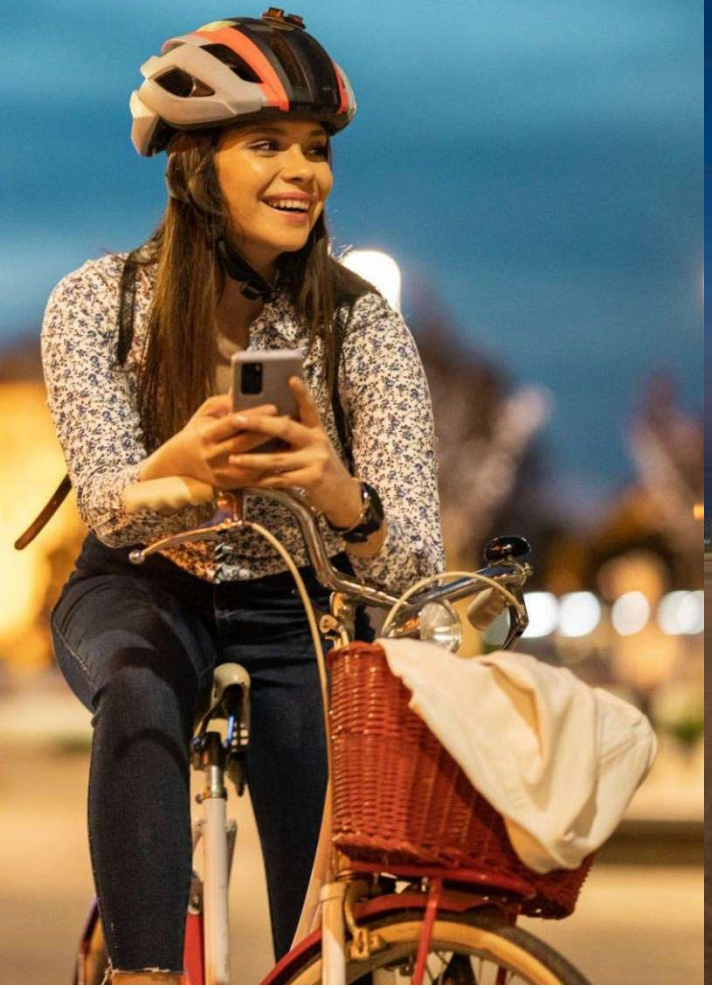
Residential Areas

Train Station / Railway Lines

Ports / Sea Terminals

University Campus

Bicycle Roads



Outdoor Parking

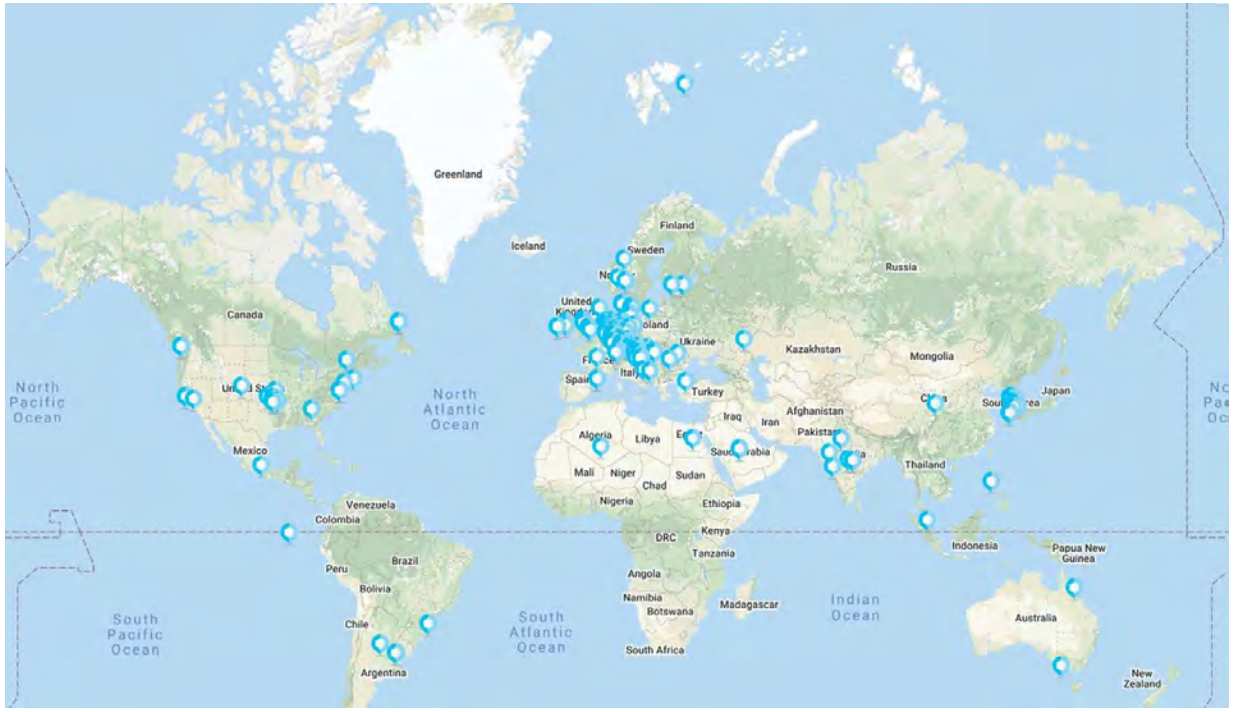
Public Parks

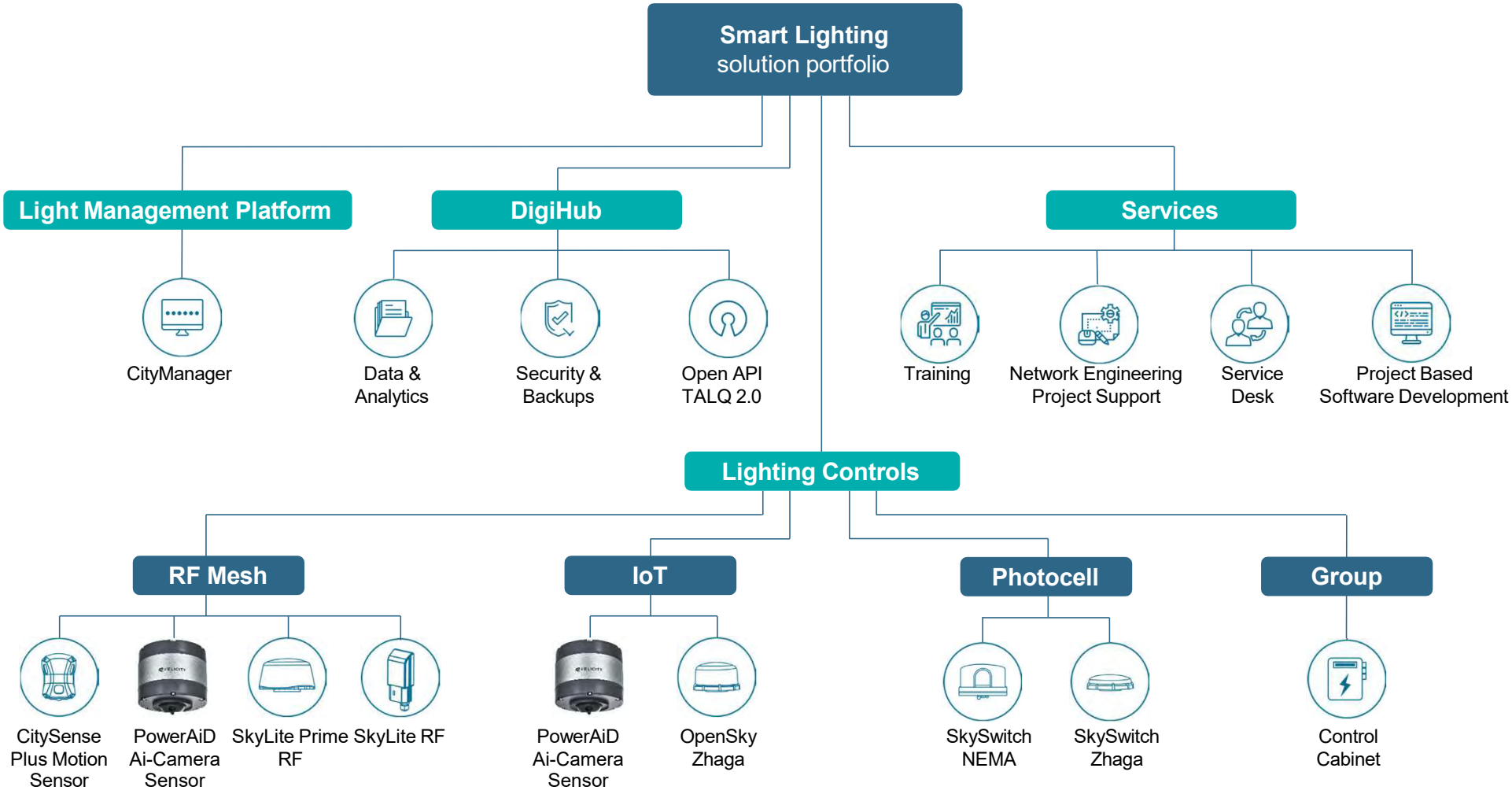
Global presence: Deployment in 800+ projects

Monitored by CityManager and supported by our Partner of Service Desk

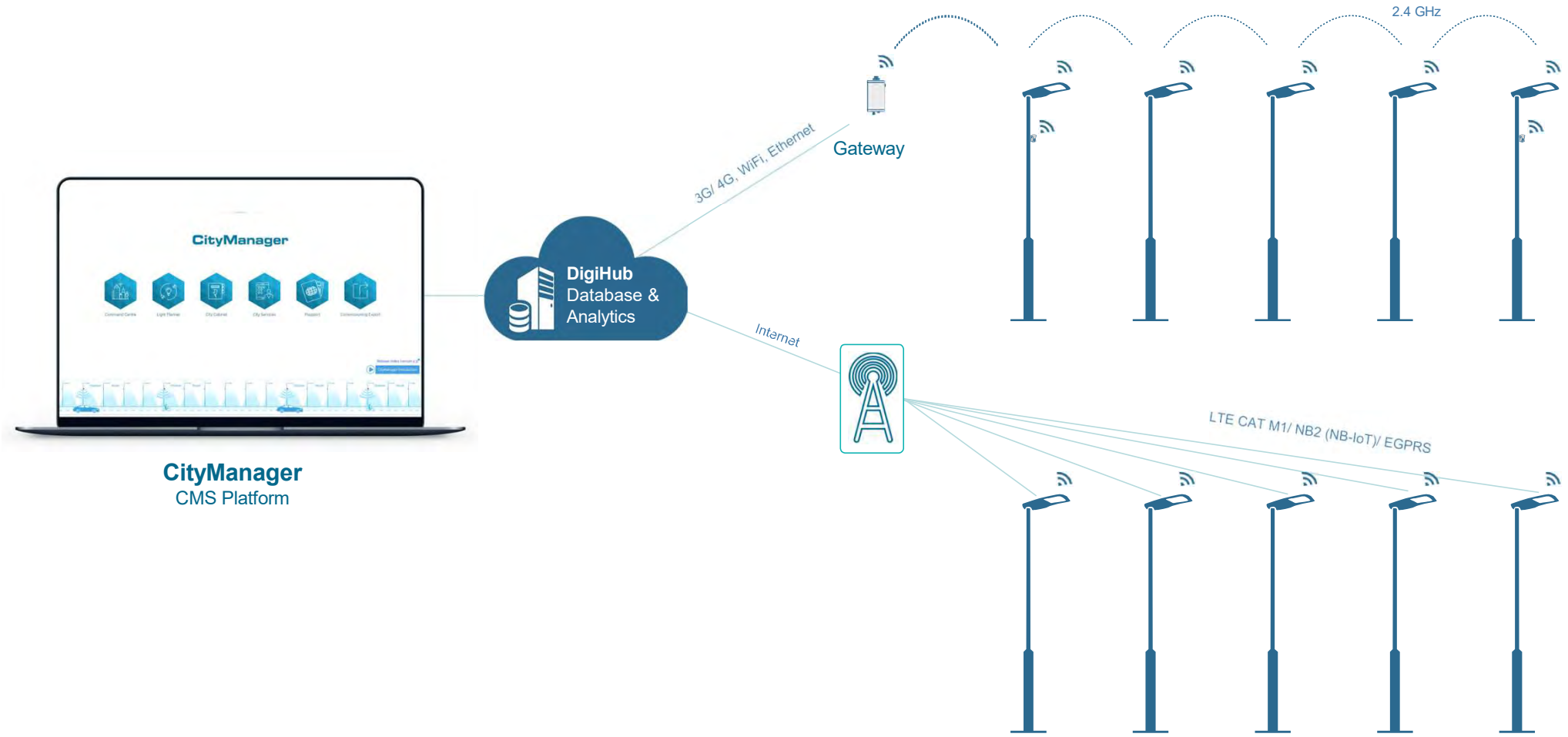
Selected Projects

- Dortmund (DE) 30.000 smart streetlights
- Düren (DE) 5.000 smart streetlights
- Dutch Railways (NL) 10.250 smart streetlights
- Island of Texel (NL) 3.420 smart streetlights
- Helmond (NL) 8.500 smart streetlights
- Seoul (KR) 2.500 smart streetlights
- Busan (KR) 1.500 smart streetlights
- Bangladesh 4.300 smart streetlights




Smart Lighting
solution portfolio
Light Management Platform
CityManager
DigiHub
Data & Analytics
Security & Backups
Open API TALQ 2.0
Services
Training
Network Engineering Project Support
Service Desk
Project Based Software Development
Lighting Controls
RF Mesh
CitySense Plus Motion Sensor
PowerAiD Ai-Camera Sensor
SkyLite Prime RF
SkyLite RF
IoT
PowerAiD Ai-Camera Sensor
OpenSky Zhaga
Photocell
SkySwitch NEMA
SkySwitch Zhaga
Group
Control Cabinet

Single Platform to Manage RF Mesh and IoT Networks

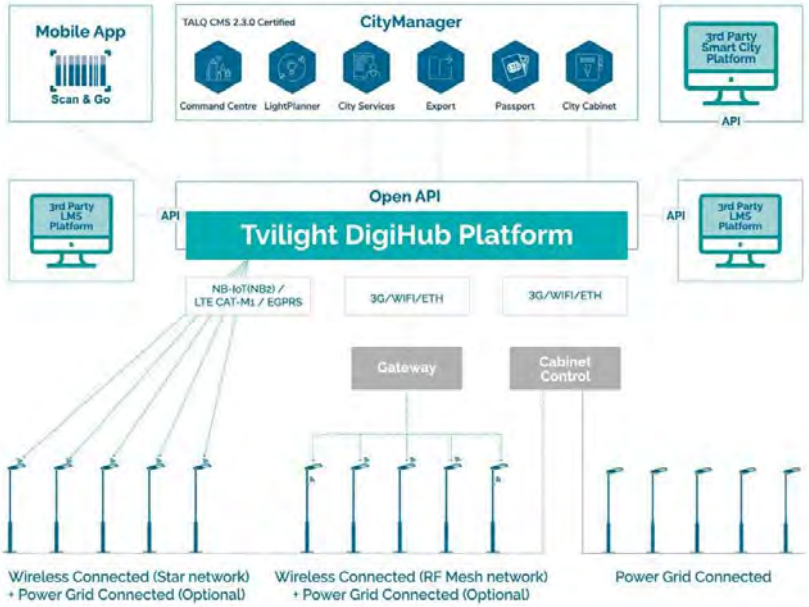


CityManager
CMS Platform

CityManager Central Management System

- **Secure platform,** accessible from anywhere, at any time
- **Monitor, manage** and **control** citywide streetlights with intuitive interface
- **Open API** and TALQ compliance ensure vendor-neutral interoperability

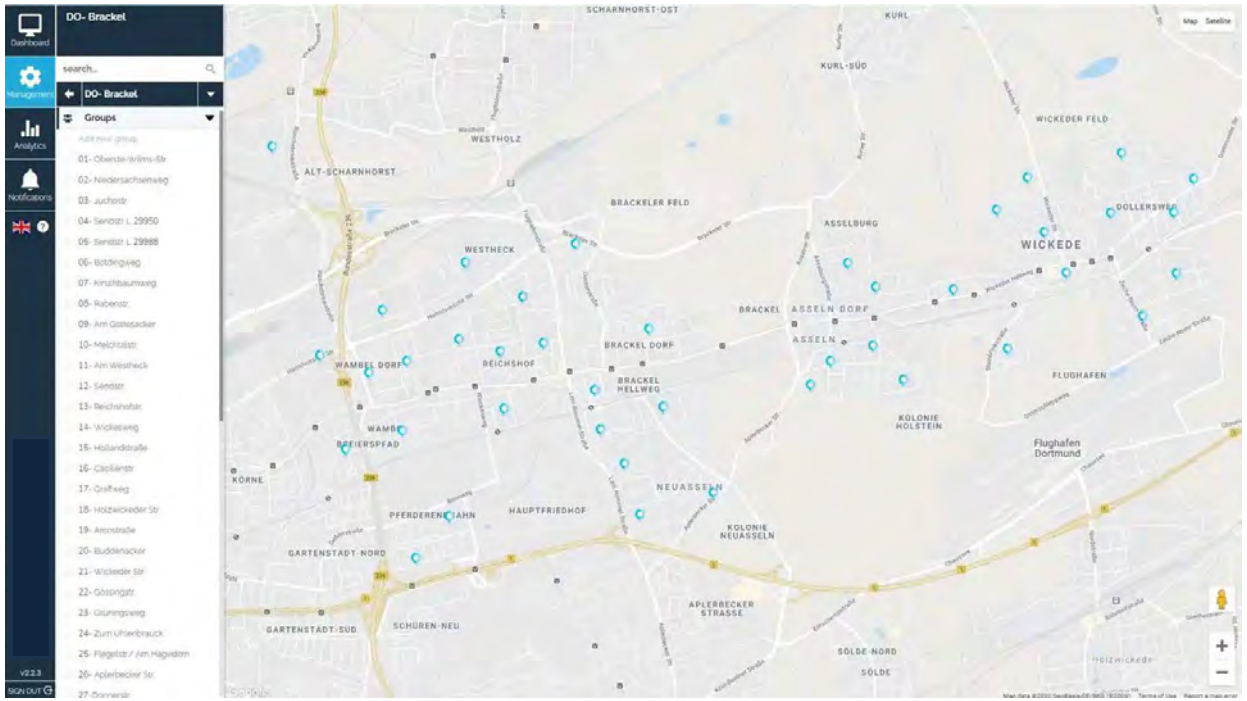
Open, Secure & Interoperable



Vendor neutral system

- Open API and TALQ compliance ensure easy integration with third-party applications
- Successful integration examples:
  - Cisco Kinetics
  - SixData luxData.light
  - Thorn UrbaSens
  - Montad Moon
  - VIMALUX CityManager
  - Osram LumIdent
  - Bee Smart City
  - Siemens / Atos

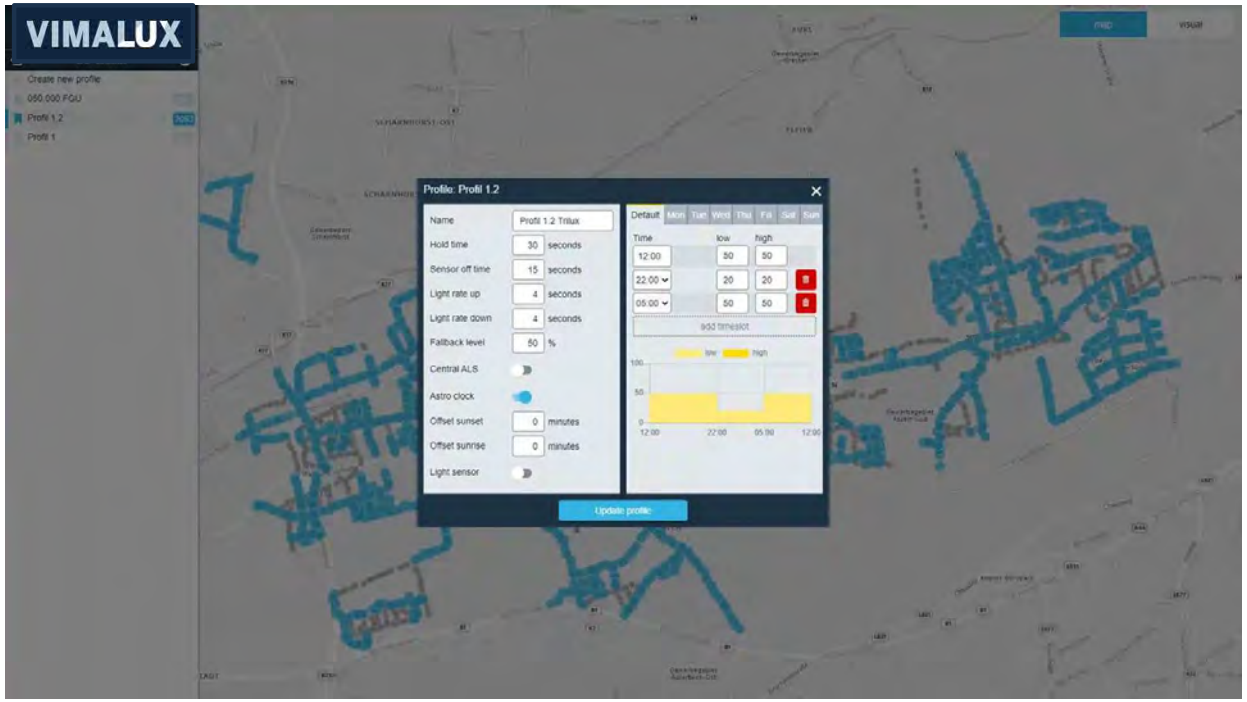
Manage Streetlights Remotely



Intuitive web interface renders total control

- Secure cloud hosted platform, accessible from any web browser, from anywhere, at any time
- Easy-to-understand and easy-to-use application interface help manage streetlights effortlessly
- ISO and NEN certified infrastructure

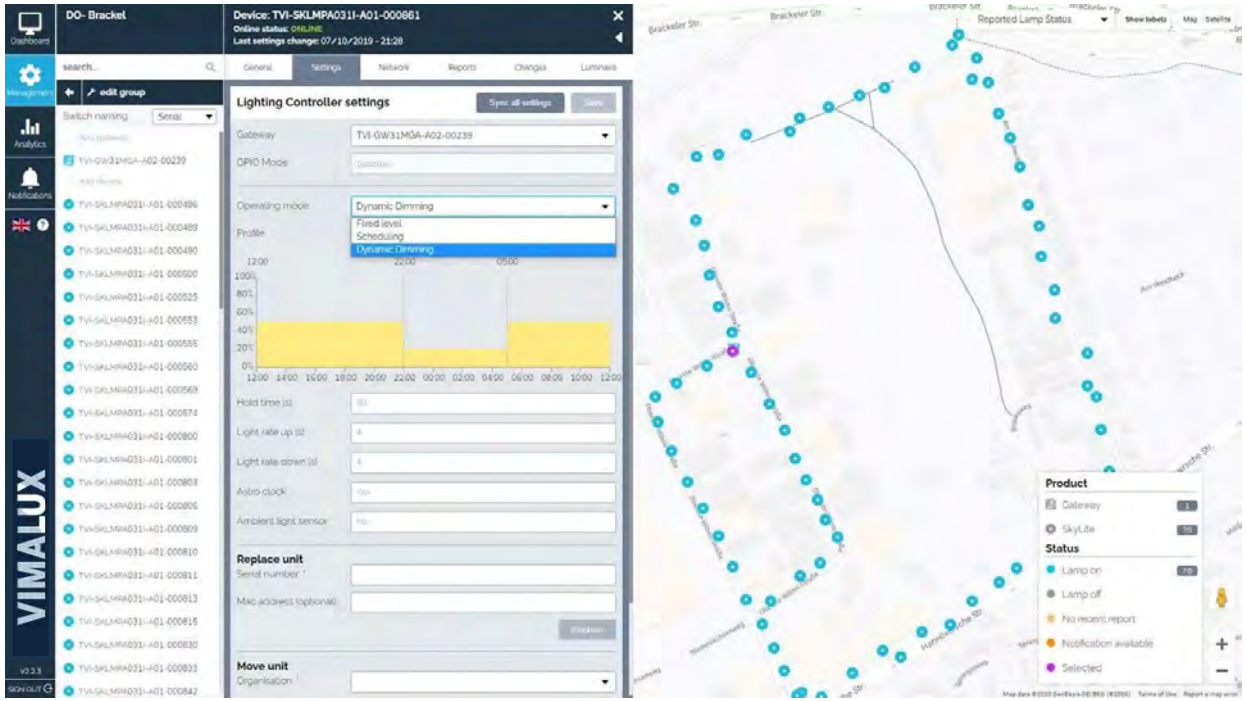
Control Citywide Lighting



Fine-tune lighting as per the demand

- Create custom groups or manage individual streetlights
- Adjust lighting requirements based on:
  - Profiles
  - Specific days
  - Certain events
  - AstroClock
  - Ambient light sensor
  - Human movement (motion sensing)

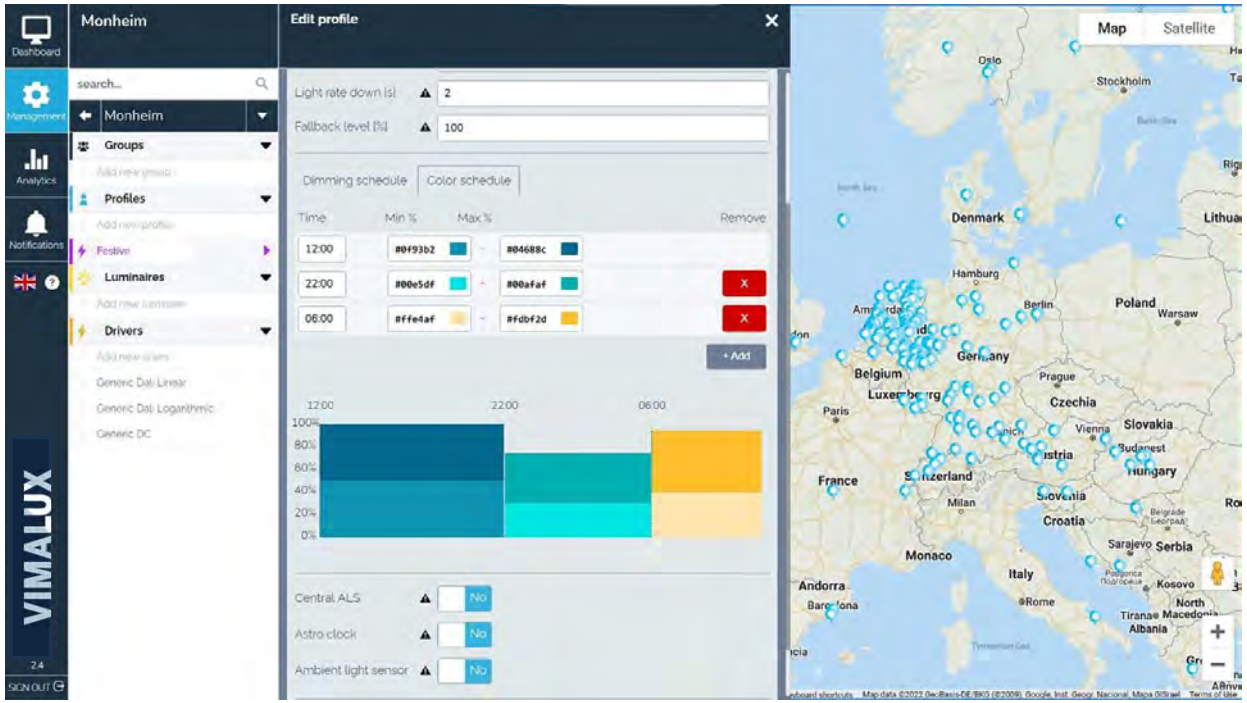
Fine-tune for Sustainability and Safety



High level of control over streetlights

- Reduce energy consumption and limit CO2 emissions and light pollution with dimming schedules and motion sensor parameters
- Adapt lighting with ease to balance sustainability and citizens' comfort and safety

Adjust Street Light Colours

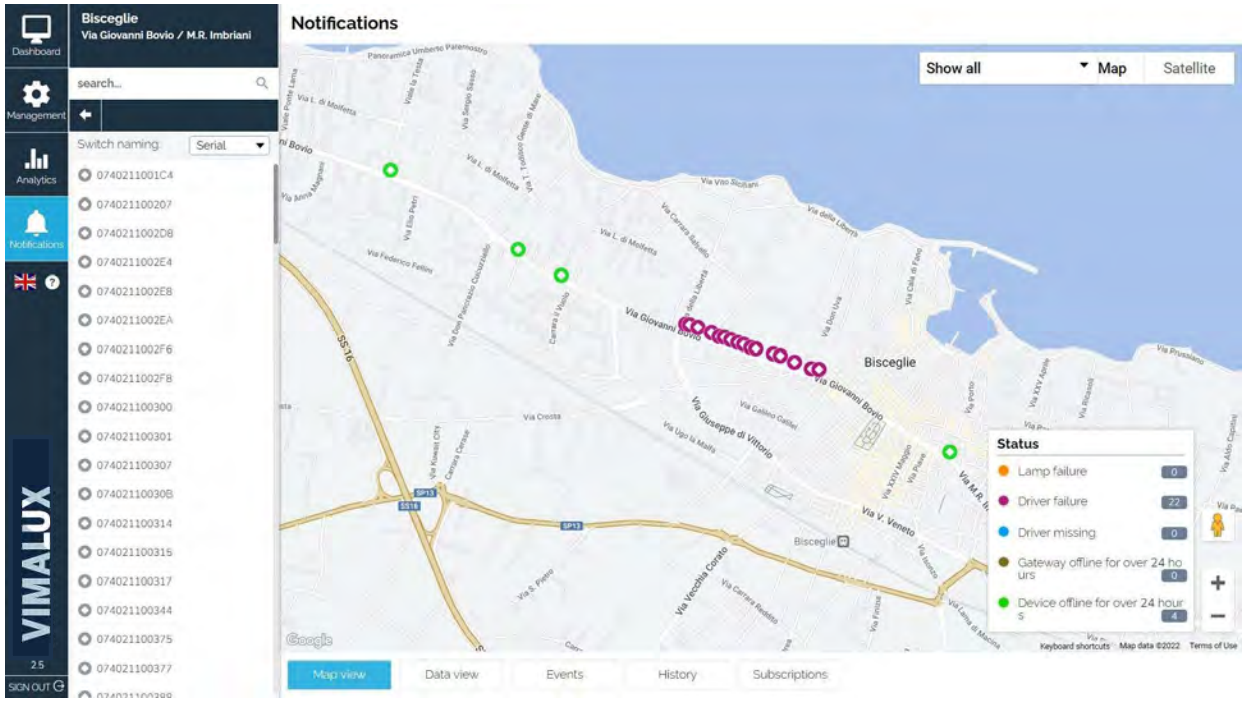


Create the right ambience

- Choose from a broad spectrum of colors or any shade of white to find the right tone (RGBW)
- Adjust colours based on:
  - Profiles
  - Specific days
  - Certain events
  - Human movement (motion sensing)

** Currently works with OpenSky Zhaga IoT Controllers only*

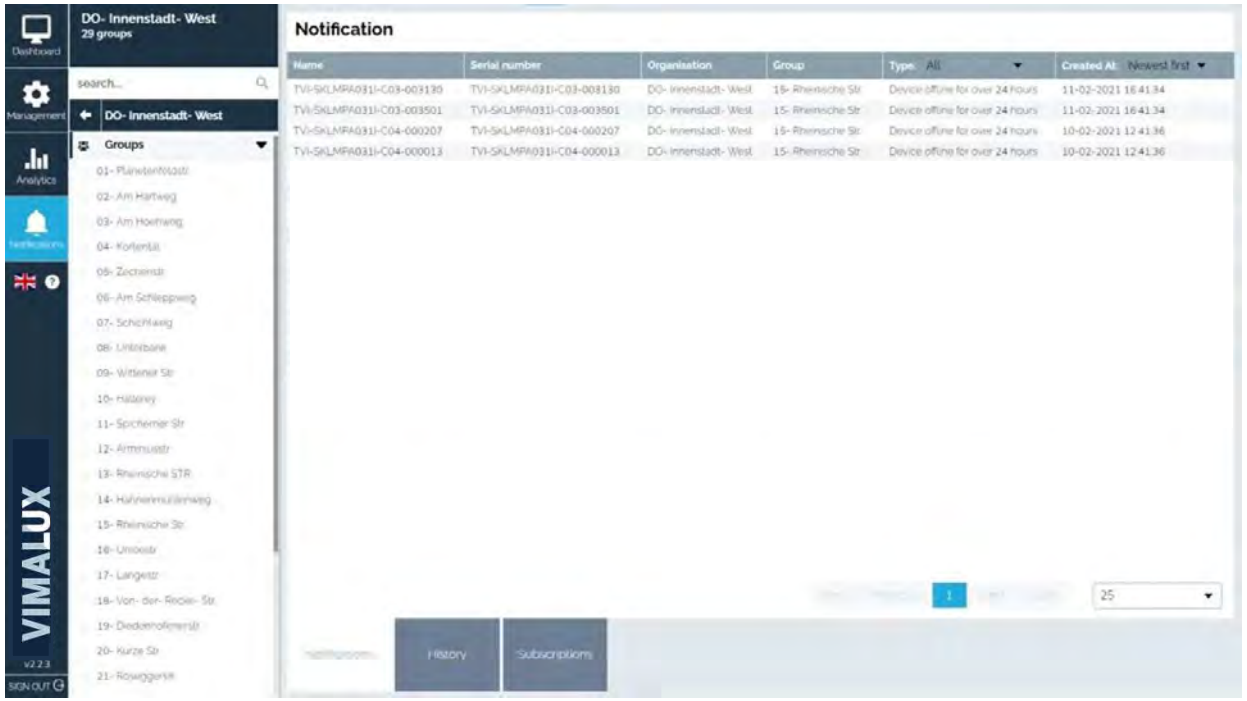
Citywide Maintenance Overview



Identify alerts/alarms at a city-level

- Know the precise location where the maintenance operator should act.
- Reduce truck rolls and subsequent expenses.

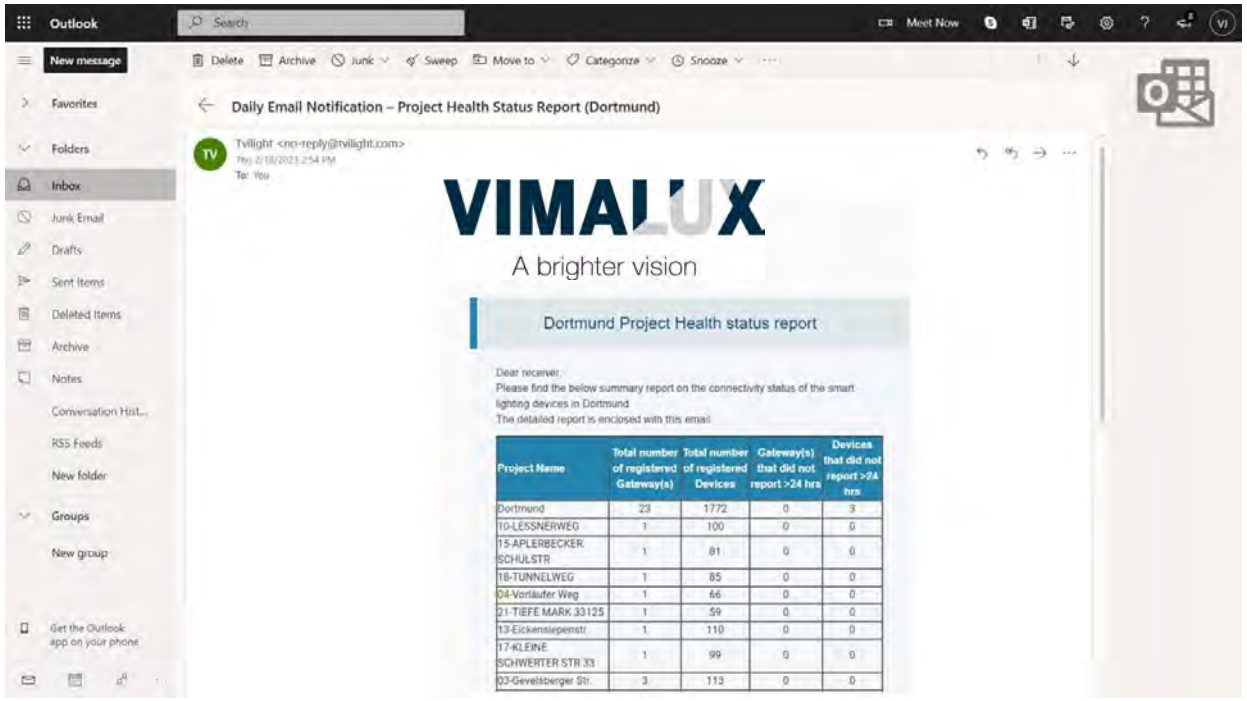
Monitor Faults, React Quickly



Achieve proactive maintenance

- Get near-real time information of luminaire
- Automatic alerts / notifications when faults / outages arise
- Reduce truck roll by knowing the exact reason of failure

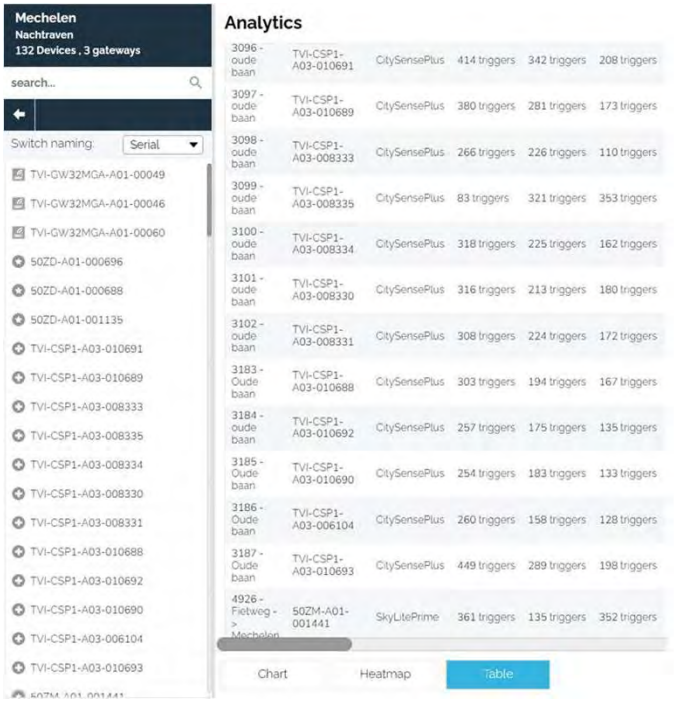
Daily Reports on Lighting Infrastructure's Health

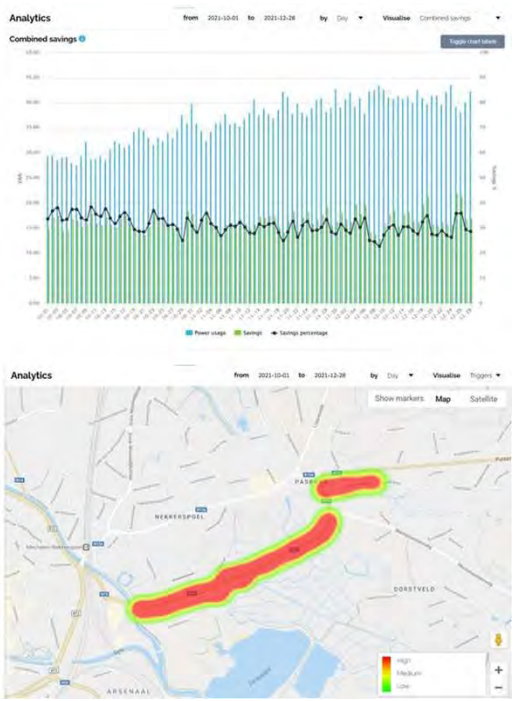


Keep citywide lighting up-to-date

- Receive automated emails containing vital information:
  - Fault light report
  - Daily savings report
  - Daily consumption report
- Helps plan maintenance

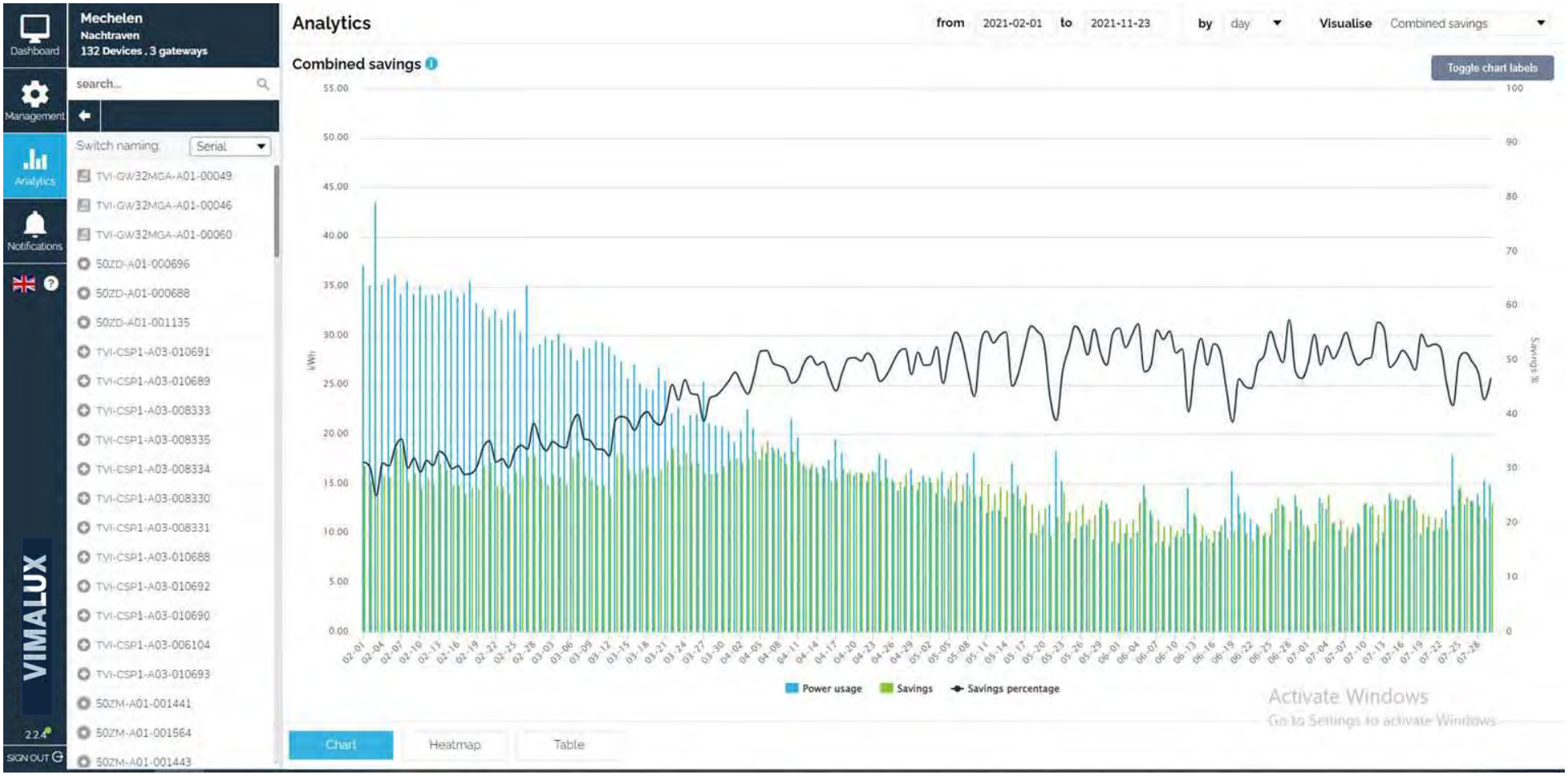
Smart Street Lighting Analytics





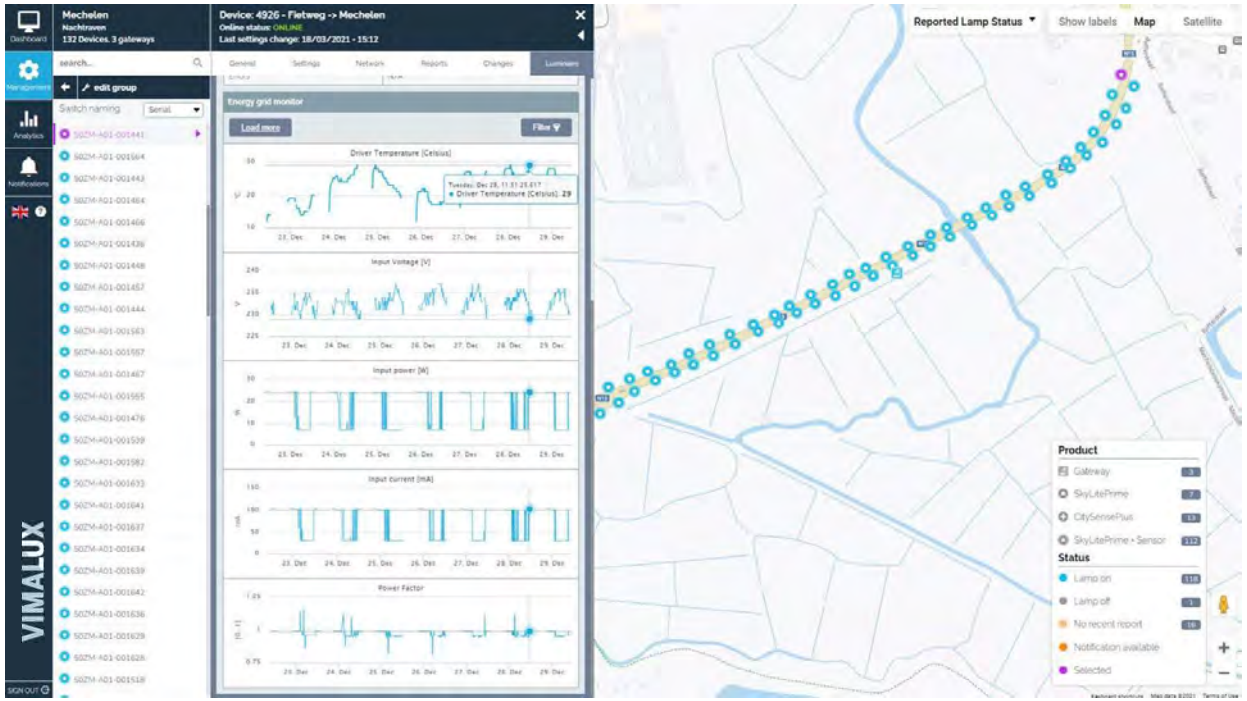
Gain insights to optimize lighting

- Track lighting performance, status, energy consumption, savings of each luminaire
- Heatmap to identify busy areas / spots
- Insightful graphical data helps make actionable plan to meet sustainability goals


Dashboard
Management
Analytics
Notifications
VIMALUX
2.2.4
SIGN OUT
Mechelen
Nachtraven
132 Devices . 3 gateways
search...
Switch naming
Serial
TVI-GW32MGA-A01-00049
TVI-GW32MGA-A01-00046
TVI-GW32MGA-A01-00060
50ZD-A01-000696
50ZD-A01-000688
50ZD-A01-001135
TVI-CSP1-A03-010691
TVI-CSP1-A03-010689
TVI-CSP1-A03-008333
TVI-CSP1-A03-008335
TVI-CSP1-A03-008334
TVI-CSP1-A03-008330
TVI-CSP1-A03-008331
TVI-CSP1-A03-010688
TVI-CSP1-A03-010692
TVI-CSP1-A03-010690
TVI-CSP1-A03-006104
TVI-CSP1-A03-010693
50ZM-A01-001441
50ZM-A01-001564
50ZM-A01-001443
Analytics
from 2021-02-01 to 2021-11-23 by day Visualise Combined savings
Combined savings
Toggle chart labels
kWh
Savings %
Power usage
Savings
Savings percentage
Chart
Heatmap
Table
Activate Windows
Go to Settings to activate Windows.

Dashboard
Management
Analytics
Notifications
Texel
26 groups
search...
Texel
Groups
De Cocksdorp Plooisterstraat
De Cocksdorp Postweg
De Koog Epelaan
De Koog Nikadel
De Koog Nikadel 2
De Koog Nikadel 3
Den Burg Beatrixlaan
Den Burg Haffelderweg
Den Burg Hollewal
Den Burg Keesomlaan
Den Burg Sluyscoog
Den Burg Vogelenzang
Den Burg Waalderstraat
Den Burg Wilhelminalaan
Den Hoorn Hoge Achterom
Den Hoorn Naalrand
De Waal Sommeltjesweg
Midden-Eierland Hoofdweg
Oosterend Bijenkorfweg
Oost Oost
Oudeschild Haven
Oudeschild Schilderweg
Oudeschild Trompstraat
VIMALUX
v2.2.3
SIGN OUT
Analytics
from 2020-11-30 to 2021-10-28 by day Visualise Combined savings
Toggle chart labels
kWh
Savings %
Power usage
Savings
Savings percentage
Chart
Heatmap
Table
Activate Windows

Advanced Energy Monitoring



Detailed information about luminaire health through D4i standard

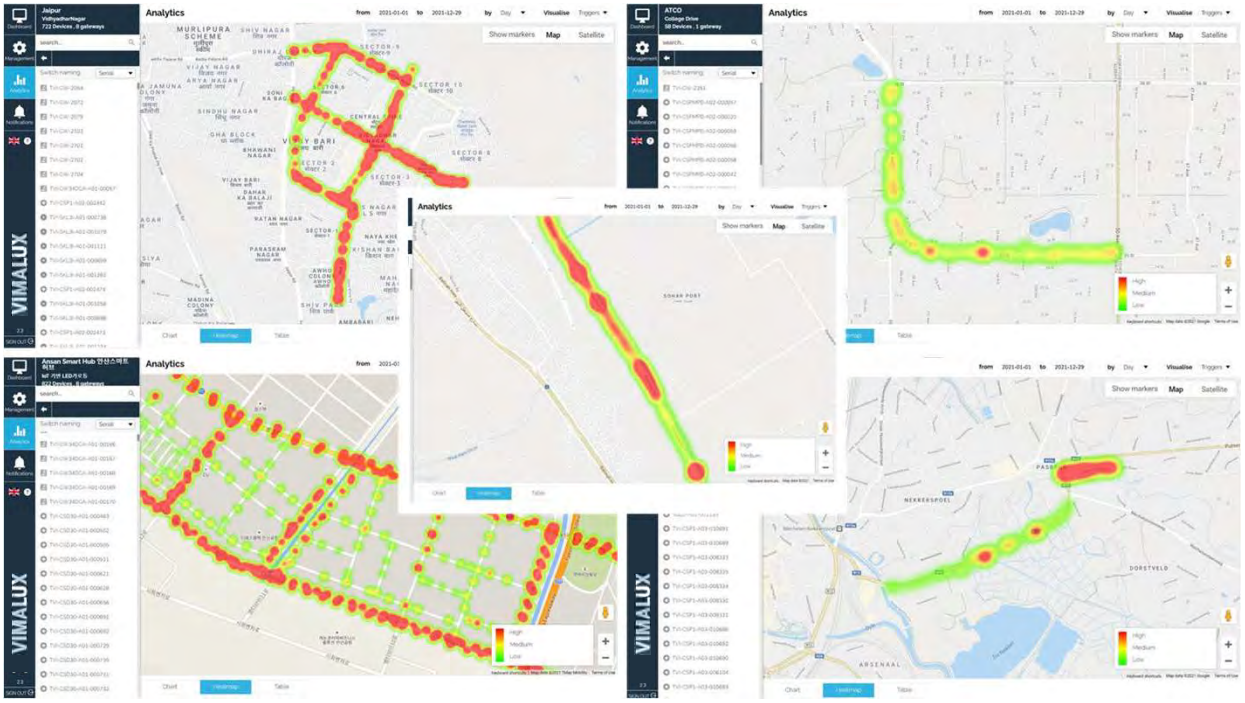
- Luminaire / controller operating hours
- Power usage for specific day, week, month or year
- Driver temperature
- Input voltage
- Input power
- Input current
- Power factor

Visualise Entire City's Lighting

Beautiful visualization of Citywide Lighting

- See when precisely the citywide streetlights turn on, adjust brightness and turn off between sunrise and sunset
- Visualize lighting for the future days / events

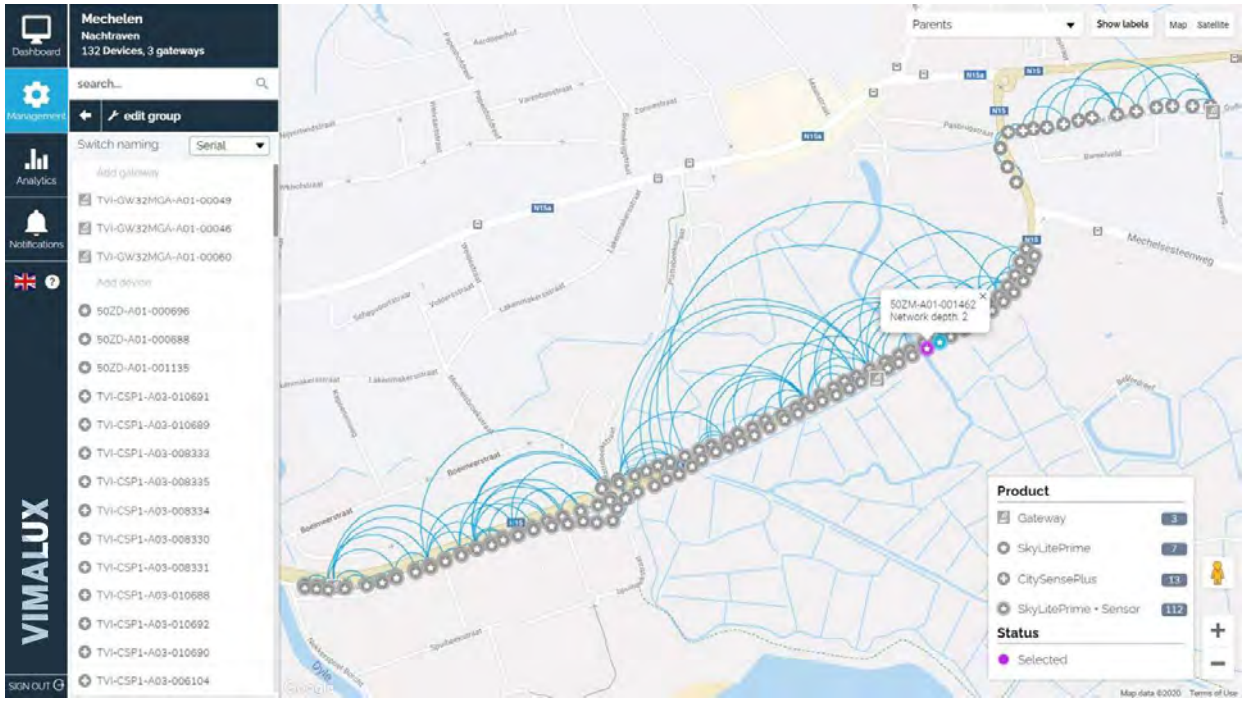
Listen to your City's Heartbeats



Valuable heatmap

- Measure people's movement during different hours at night
- Identify areas / spots that are more popular
- Spot trends and patterns to optimize street lighting levels

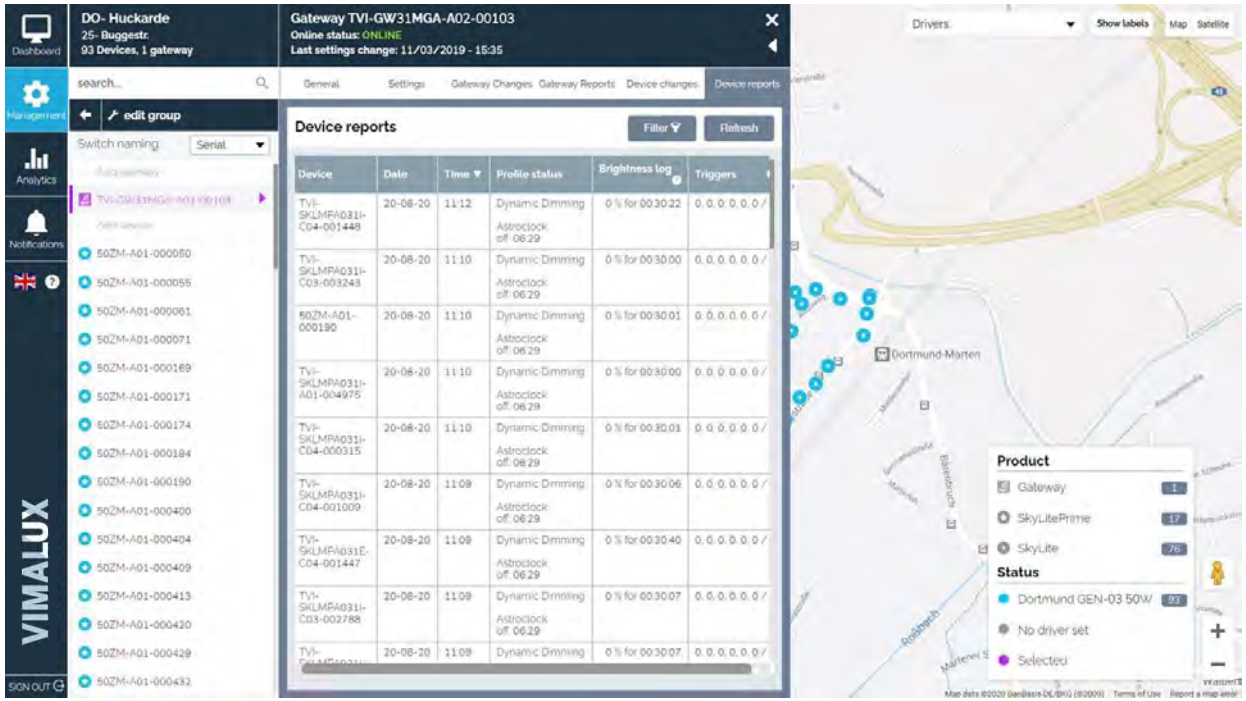
View Network Formation



See how devices are connected to each other

- Helps optimize or troubleshoot coverage issues

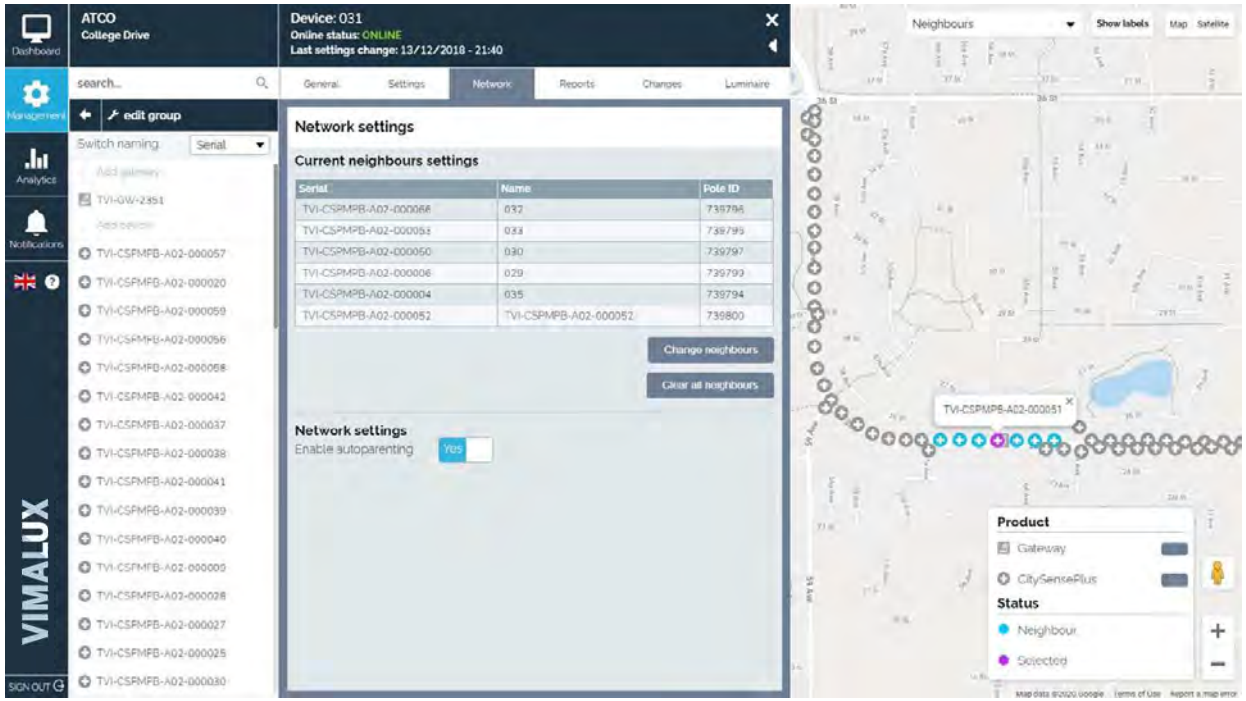
Historical Reports and Logs



Detailed historical data

- Address existing faults by tracking similar issues that had occurred in the past
- View detailed log on CityManager

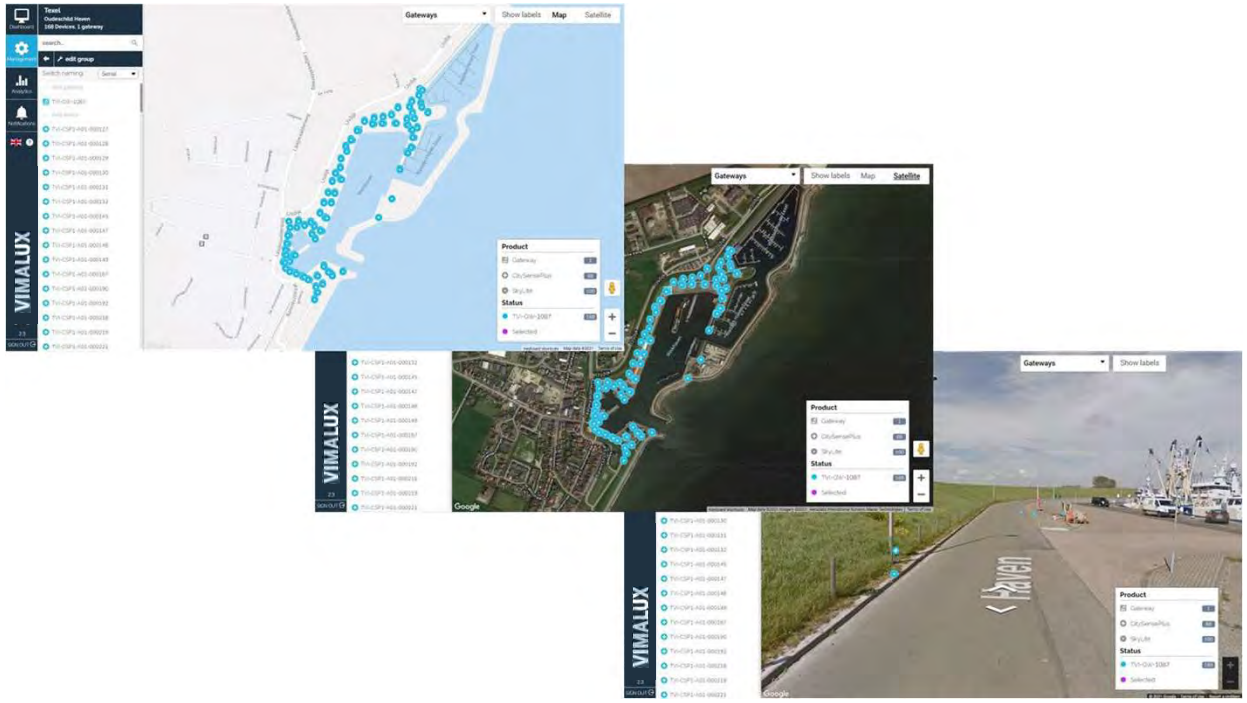
Create a Safe Circle of Light for Citizens



Set neighbour lighting triggers with ease

- On a map view, locate and set the corresponding streetlights that will trigger upon human detection
- Helps create a safe-circle-of-light, boosting road-users safety perception

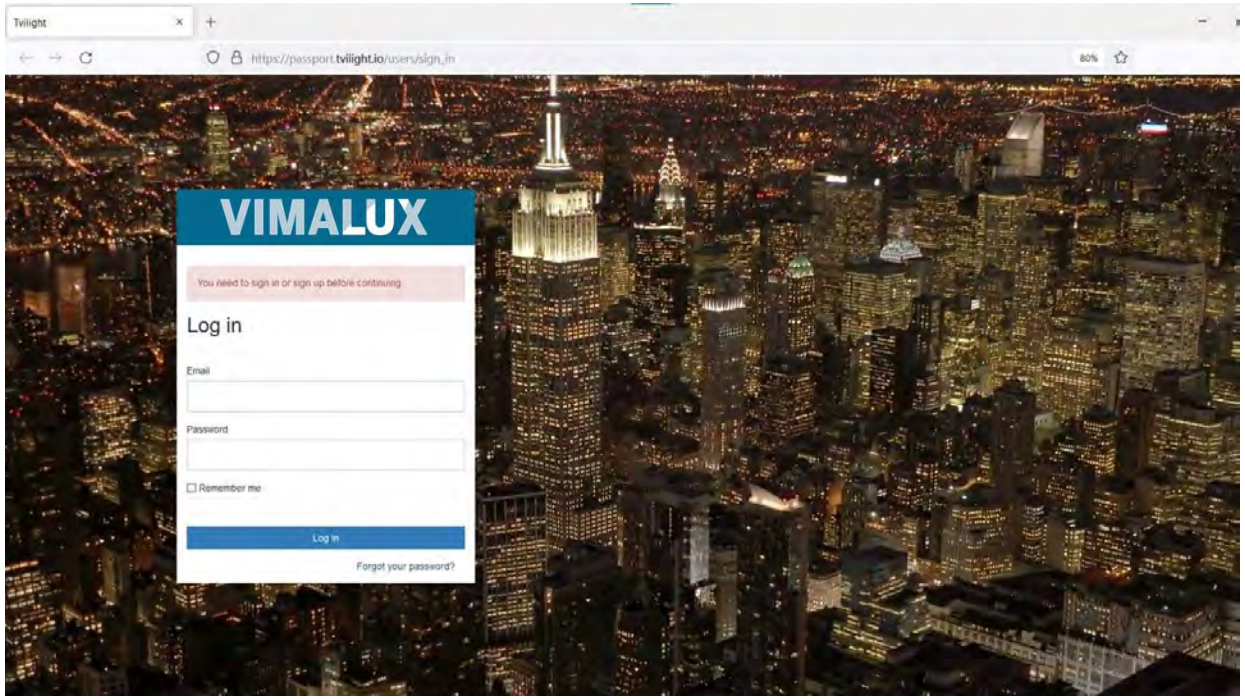
Different Map Views for Better Perception



Understand your lighting terrain

- Map view (with terrain option)
- Satellite view
  - Tile map
  - 360° Street view (if available)

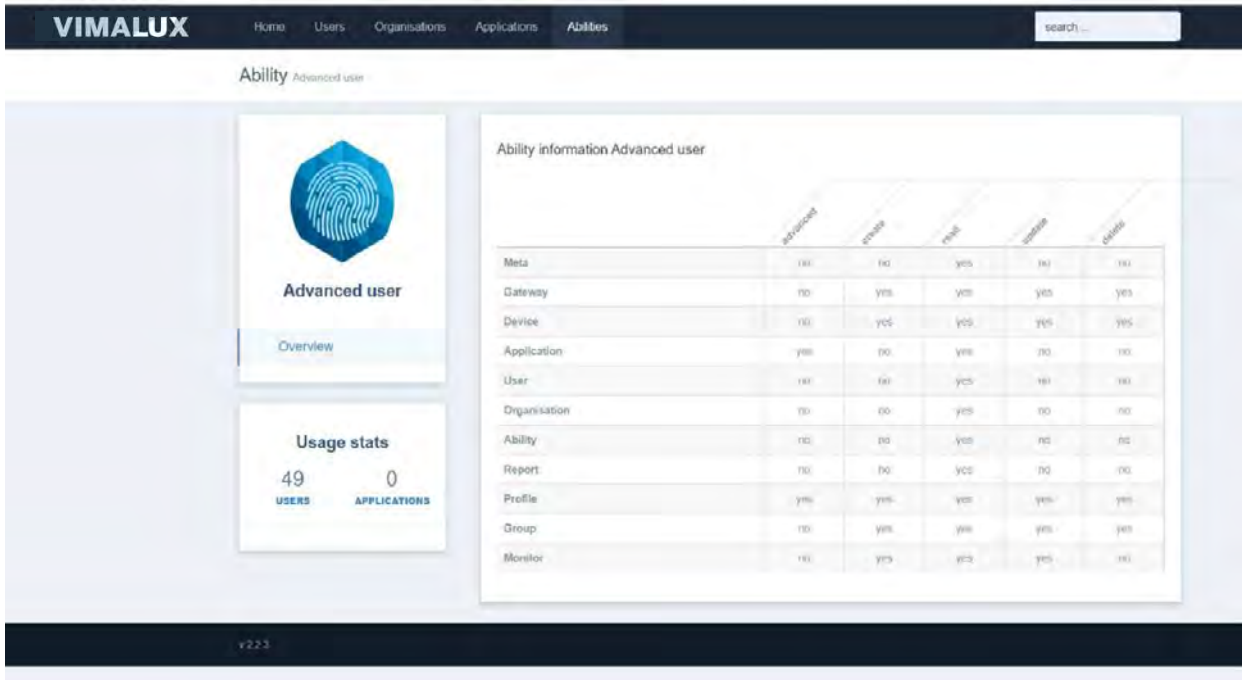
Welcoming Login



Refreshing login screen that inspires

- Dynamic login screen
- Customization option available

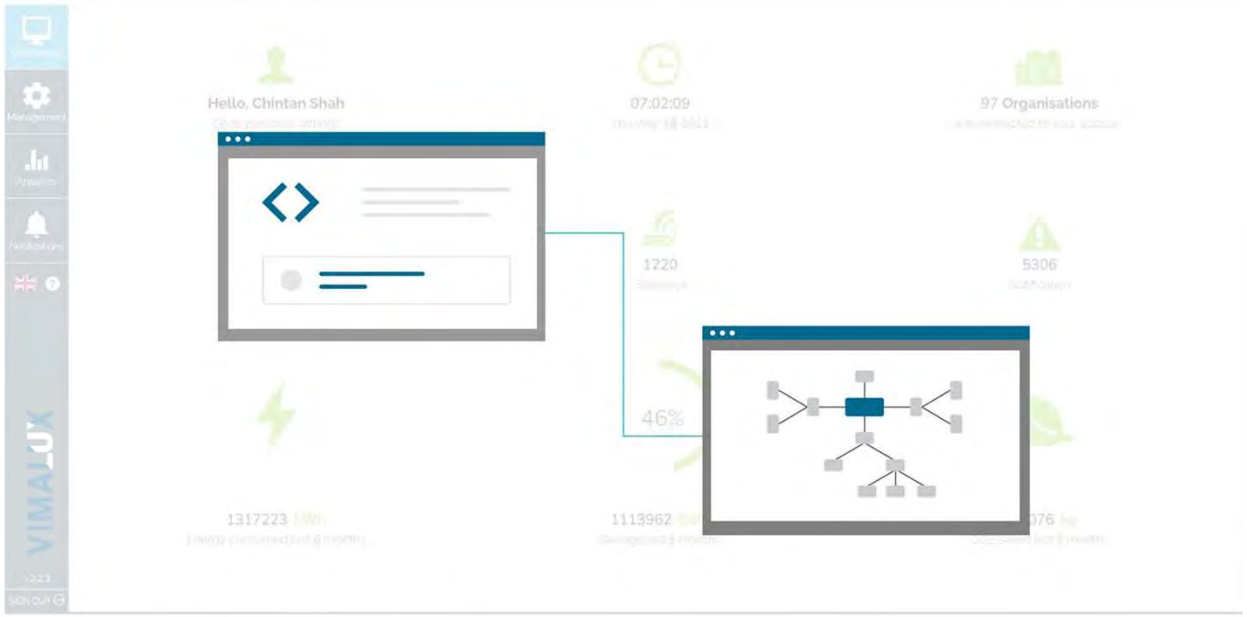
Right Control with the Right Person



Simple user rights management

- Decide who can access CityManager
- Defined the level of permission:
  - Read only access
  - Admin access
  - Custom access:
    - Device management
    - Lighting profile creation
    - Analytics only

Rules Engine to Interoperate City Infrastructure



Customization on demand

- We will help you build customized logics, conditions and events to generate alerts, alarms or trigger actions
- Imagine streetlights turning bright when fog hits your town or when visibility drops significantly
- Inter-connect CCTV / Traffic Lights to Streetlights with API

New Features with Regular Updates

Addressing your needs is our priority

- Features and functions are introduced regularly based on our customers feedback and request

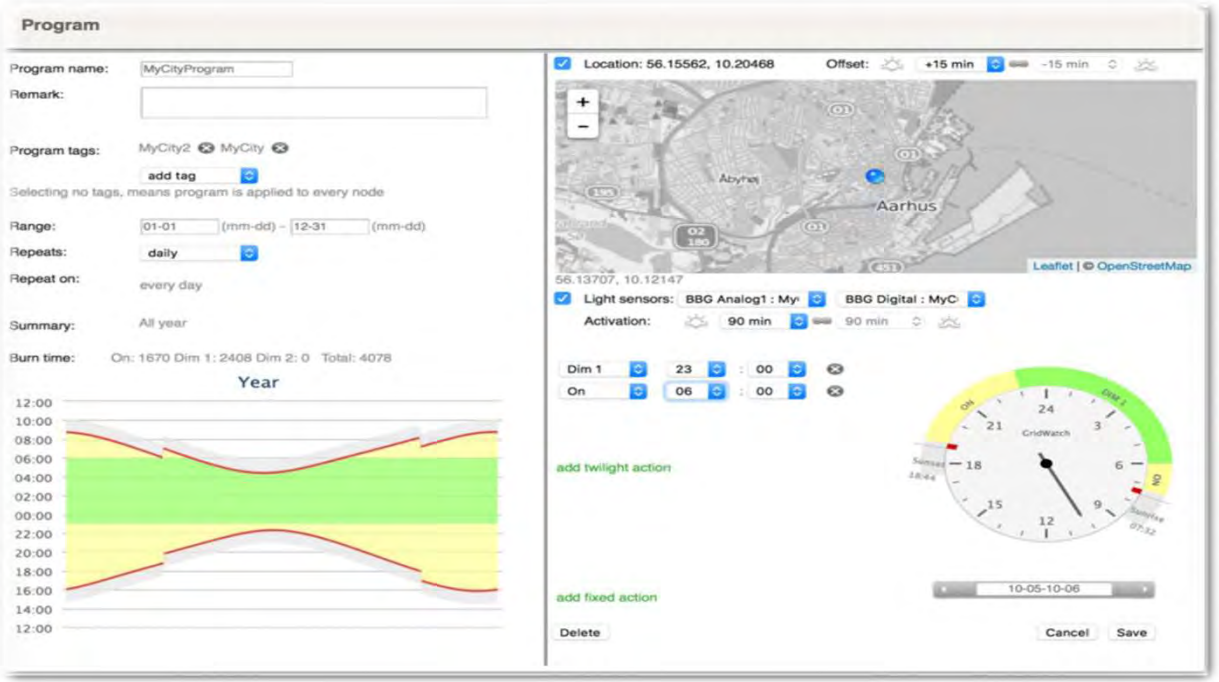
CityManager with your own Branding

Version to reflect your own brand

- For premium partners and customers, we can customize and help with your own branding

Manage Group Lighting

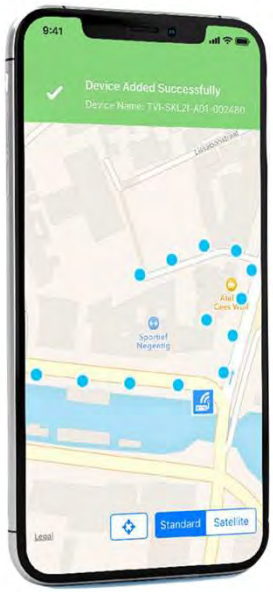
Partner application



Dedicated application for Group Control

- Manage citywide Feeder Pillars and Control Cabinets through our dedicated software application
- Advance switching control, real-time monitoring and alarm management

Mobile Apps to Support Commissioning & Maintenance



Scan & Go for easy commissioning

- Makes device commissioning easier / hassle-free for the crew on the field
- Available for both Android and iOS platforms
- Dedicated Apps (HiLight, Light Switch) for emergency and maintenance support

We are Here to Support You

24x7 Service Desk

- You have your own portal where you can avail:
  - Information request
  - Demo project request
  - Technical assistance
  - CMS feature request
  - Technical suggestion
  - Replacement / return request
  - Knowledge repository
- Service Desk

Features to improve day-to-day operations…

Intuitive User Interface

The entire system is carefully designed so that users can easily understand and use it. Multilingual option is also available

Perfect Controllability

Whether Mesh devices or IoT devices or both, the platform offers seamless controllability to the users

Map-based Visualisation

Each connected luminaire is represented on a graphical interface on Google Maps, coordinated with GPS

Features to improve day-to-day operations…

Secure & Reliable

Advanced VPN and data encryption ensure that the system meets international standards. ISO and NEN certifications for system servers.

Accurate & Real-Time Data

The platform provides automatic analysis and evaluation of lighting data including status reporting and failure alerts

Automatic Failure Reporting

The platform can identify several lighting-related faults and automatically send failure reports to the concerned personnel

Like it.

Why not give it a try?

Want to learn more?

Need a quick demo?

Contact us at: admin@vimalux.com

Thank You

We look forward to working with you!

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