SCEWC 2021

CAPELON

CAPELON

- ✓ **20+ years** of operation
- ✓ **12+ years** as a provider of products for Smart Street lighting
- ✓ **50+ Cities** served in Sweden and Finland

2017 we started new product development

- ✓ Since 2017 invested more than 1 MEUR in development for extending to smart city and massive IoT wireless technology
- ✓ Seeking investors/owners to grow our operation for a commercialization and marketing phase

The Problem

Urbanisation

growing & aging population

Must tackle

- Inefficiencies within City Operations
- High Energy Consumption
- Sustainability and Environmental Requirements
- Safety for its citizens
- Be attractive for citizens and businesses

IoT Boom

Driving the cities towards Digitalization and Smart City solutions

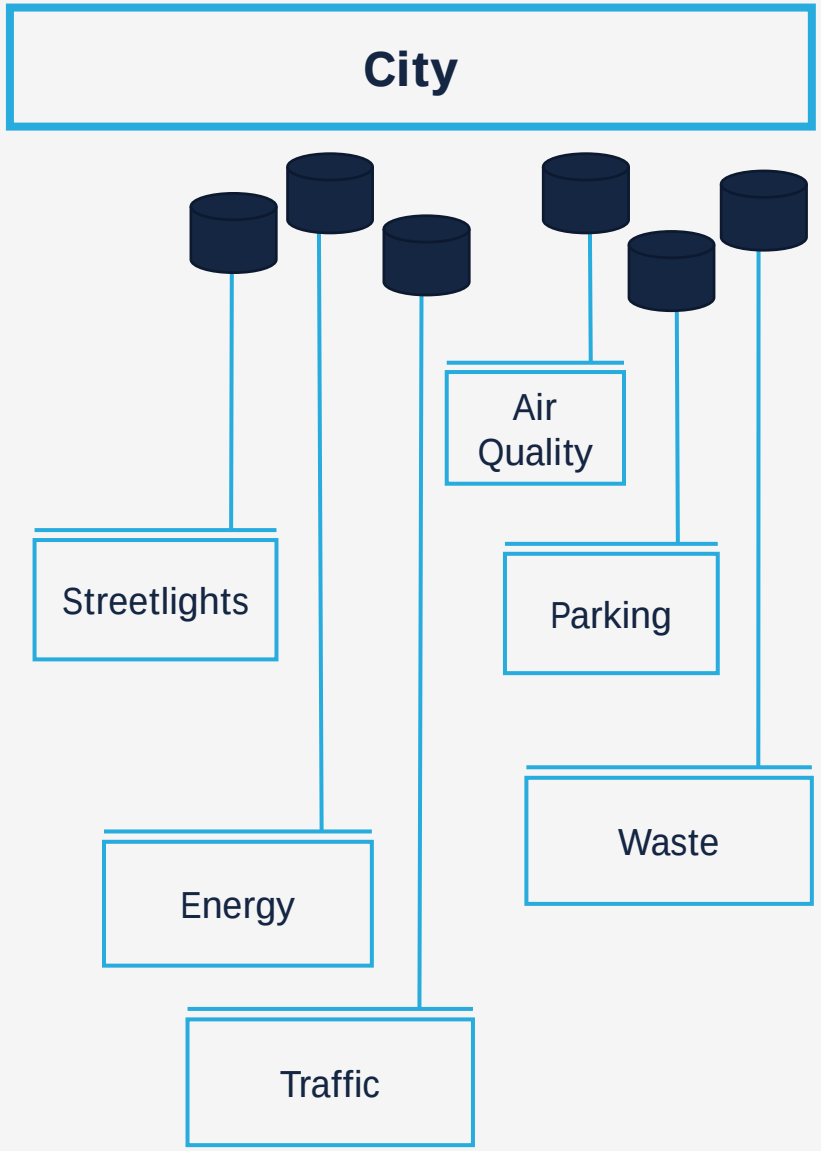
Smart Streetlights

A pillar for smart cities

Not only light anymore, must consider smart city IoT

Silos

- Cities attempt various solutions but ends up with many separate systems (SILOS)
- Prevents efficiency and smart solutions when data is not accessible horizontally



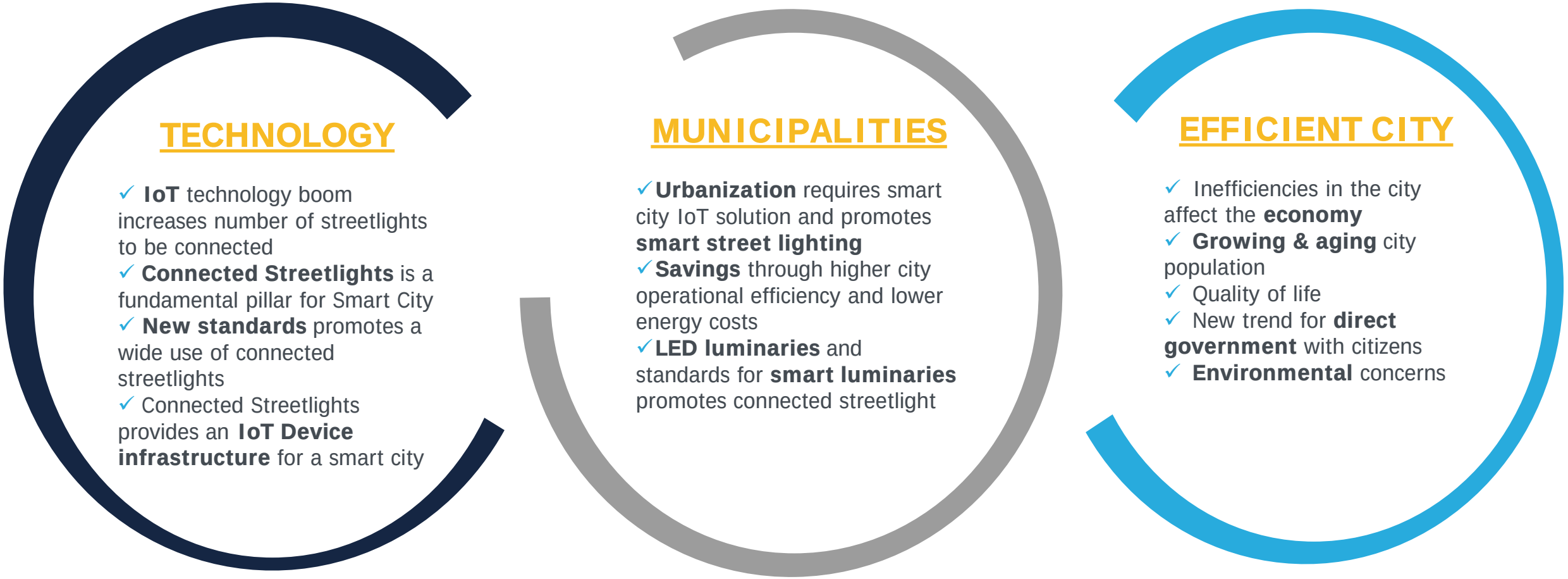
TOWARDS SMART CITY 2.0

Problem: SILOS and Decision Making

- Technologies are **DISCONNECTED**
- Technologies are **MANAGED SEPARATELY**
- Separate budgets are assigned to smart city projects within municipalities and **HIGHER CAPEX**
- Separate municipality departments, decentralised decision-making, **OVERLAPPING OR CONFLICTING GOALS**
- **NO INTEROPERABILITY** of technologies
- The City wants to proceed towards a Smart City but there are difficulties to take **DECISIONS** due its central position in the city

CONNECTED STREETLIGHT BOOM: THE MARKET OPPORTUNITY

Smart and Connected Streetlights accelerate Smart City Development



TECHNOLOGY

- ✓ **IoT** technology boom increases number of streetlights to be connected
- ✓ **Connected Streetlights** is a fundamental pillar for Smart City
- ✓ **New standards** promotes a wide use of connected streetlights
- ✓ Connected Streetlights provides an **IoT Device infrastructure** for a smart city

MUNICIPALITIES

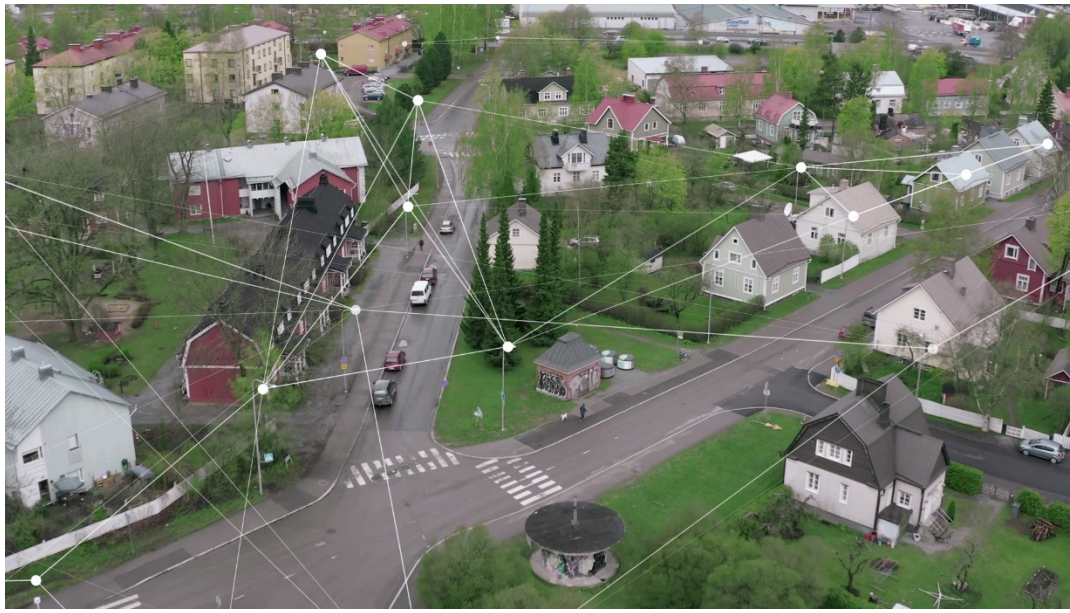
- ✓**Urbanization** requires smart city IoT solution and promotes **smart street lighting**
- ✓**Savings** through higher city operational efficiency and lower energy costs
- ✓**LED luminaries** and standards for **smart luminaries** promotes connected streetlight

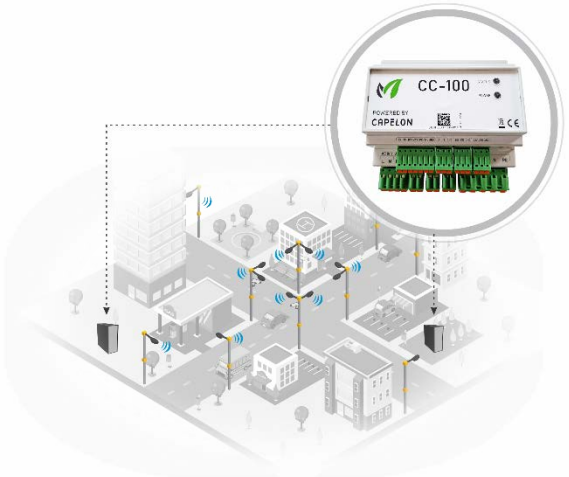
EFFICIENT CITY

- ✓ Inefficiencies in the city affect the **economy**
- ✓ **Growing & aging** city population
- ✓ Quality of life
- ✓ New trend for **direct government** with citizens
- ✓ **Environmental** concerns

Our Solutions
GreenStreet IoT

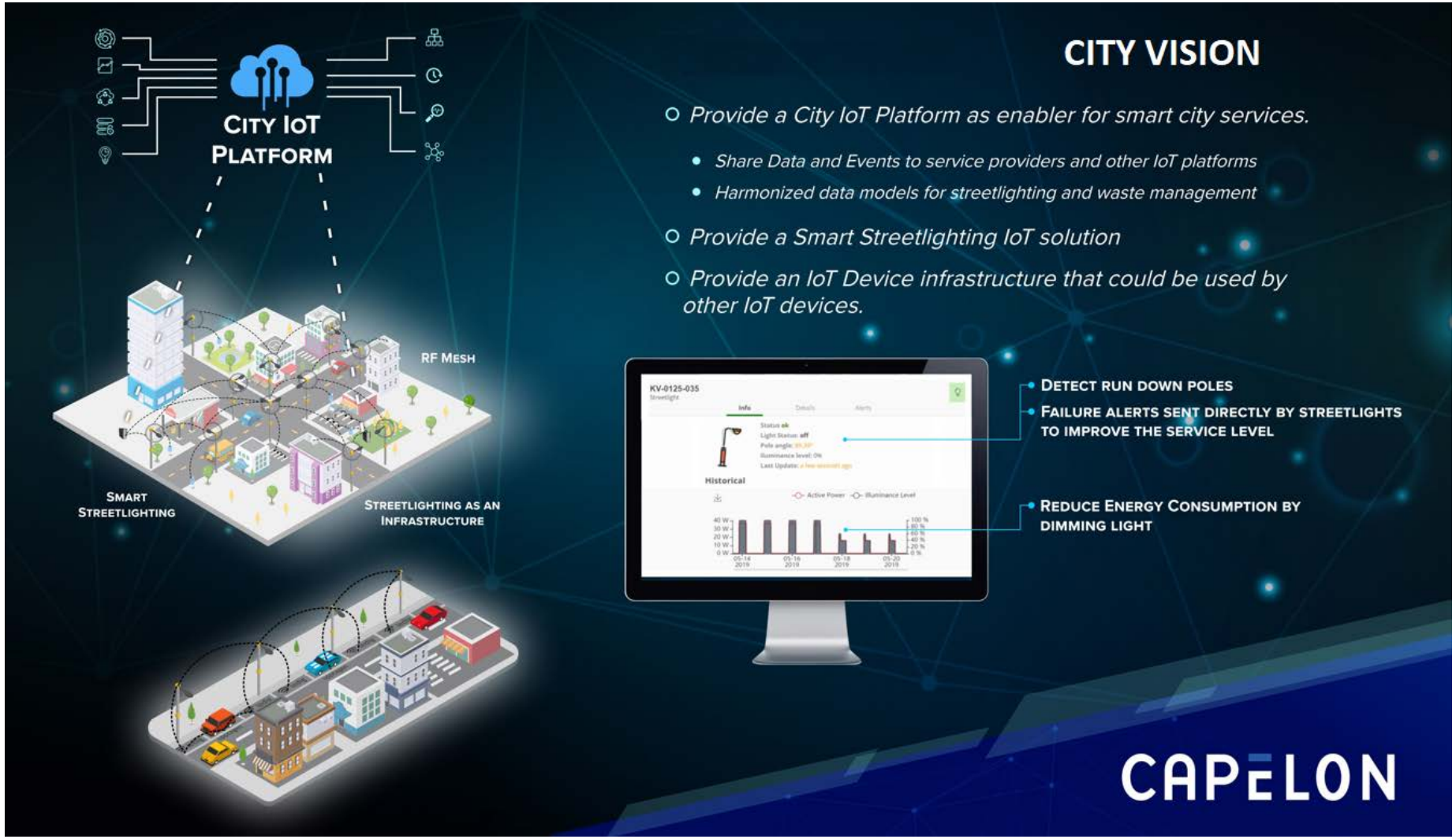
Smart street lighting based on massive IoT RF mesh communication providing the city an infrastructure for various other IoT sensor and thus promoting other smart city solutions.





MORE RANGE.
MORE RELIABILITY.
TIETOTALO
print
Coming up non-cellular 5G

Our Solution – City Vision



The Operating System to connect all Smart City IoT Applications

- ✓ Solves the SILO issue by an horizontal approach based on open standards
- ✓ Provides the city with an collaboration platforms to accelerate smart city development
- ✓ Based on Open Source, Open Data and Standards

100% OPEN SOURCE

APPLIANCES CONTAINERS

- LOCAL GOVERN
- STAKEHOLDERS
- CITY USERS
- IN-HOUSE
- ENERGY OPERATORS
- MOBILITY OPERATORS
- COMMERCIAL OPERATORS
- SECURITY OPERATORS
- INDUSTRIES
- RESEARCHERS
- START-UPS
- ASSOCIATIONS

- GDPR
- SECURITY
- PRIVACY
- ASSESSMENT
- AUDITING
- PENTESTED

- OPEN IOT DEVICES
- IOT EDGE
- IOT GATEWAY
- PAX COUNTERS
- IOT BUTTONS

- TEST CASES, SCENARIOUS, VIDEOS, HACKATHONS
- OPEN SOURCES, COMMUNITY OF CITIES
- TRAINING TUTORIALS, COMMUNITY MANAGEMENT

IOT APPLICATIONS - INSTANT APPS

DATA DRIVEN APPLICATIONS • REAL TIME PROCESSING • BATCH PROCESSING • ANY PROTOCOL & FORMAT

DASHBOARDS & APPLICATIONS

CONTROL ROOM • SITUATION ROOM • OPERATOR DASHBORDS • BUSINESS INTELLIGENCE • WHAT-IF ANALYSIS • DECISION SUPPORT • SIMULATIONS • RISK ANALYSIS • RESILIENCE ANALYSIS

MOBILE & WEB APPLICATIONS

DEVELOPMENT KIT • SUGGESTIONS • MOBILE APPS • MONITORING PANELS • PLATFORM UTILITIES • READY TO USE SMART APPLICATIONS

MICROSERVICES & ADVANCED SMART CITY API

LIVING LAB - DEV TOOLS - COWORKING

IOT DIRECTORY • SERVICE MAP • RESOURCE MANAGER • DATA GATE • R STUDIO • ETL

BIG DATA - DATA ANALYTICS

DATA ANALYTICS TOOLS - MICRO-APPLICATIONS

PREDICTIONS • ANOMALY DETECTION • WHAT-IF ANALYSIS • TRAFFIC FLOW RECONSTRUCTION • ORIGIN-DESTINATION MATRICES • SOCIAL MEDIA ANALYSIS • OFFER VS DEMAND ANALYSIS • ENVIRONMENTAL DATA ANALYSIS AND PREDICTIONS • REAL TIME HEATMAPS • ROUTING • ALERTING • EARLY WARNING • PERSONAL AND VIRTUAL ASSISSTANTS • SMART SOLUTIONS • SMART SHARING • PARTECIPATORY

KM4CITY DATA AGGREGAT KNOWLEDGE BASE - EXPERT SYSTEM OF THE CITY – BIG DATA STORE

IOT MNG - DATA MNG - DATA INSPECTOR – PROCESS MNG – USER ENGAGEMENT – GDPR MNG ...

GIS	CITY UTILITIES	OPEN DATA	LEGACY & EXTERNAL SERVICES	PERSONAL DATA	IOT / IOE	BROKERS	KPI	INDUSTRY 4.0	SOCIAL MEDIA

CITY VISION

WWW.CAPELON.SE

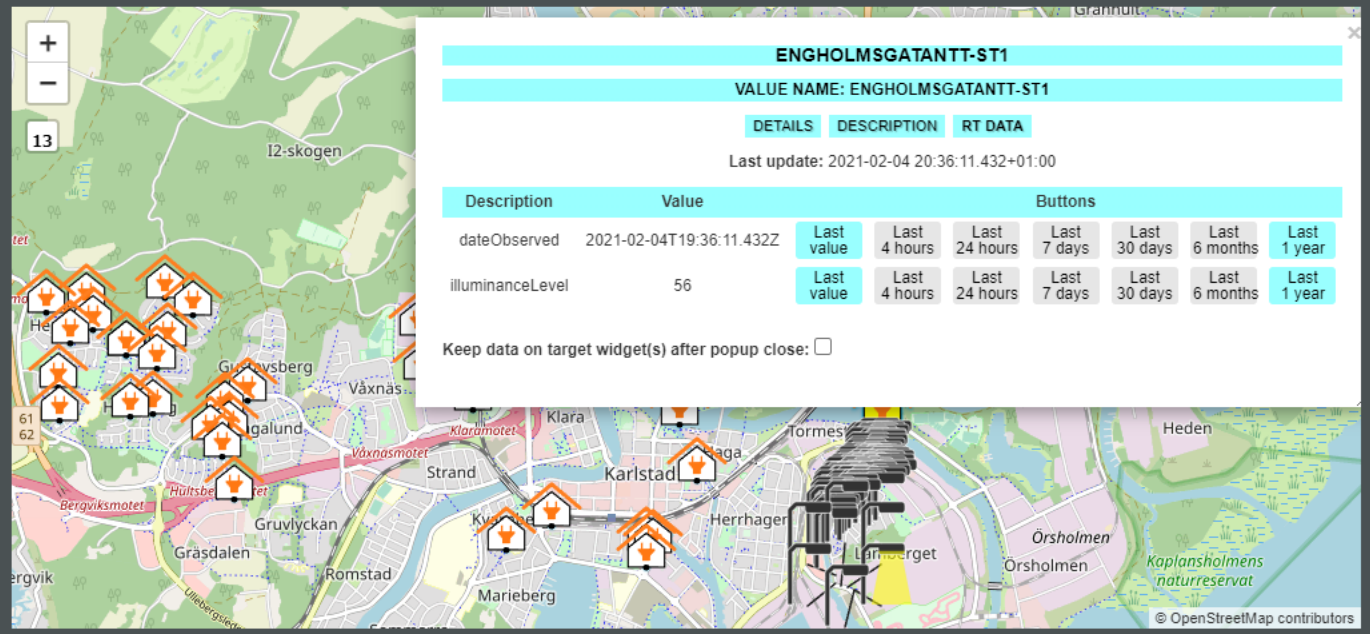
SNAP4CITY

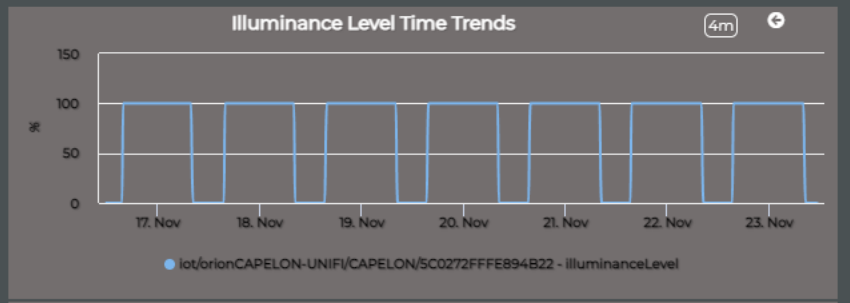
Karlstad - Capelon

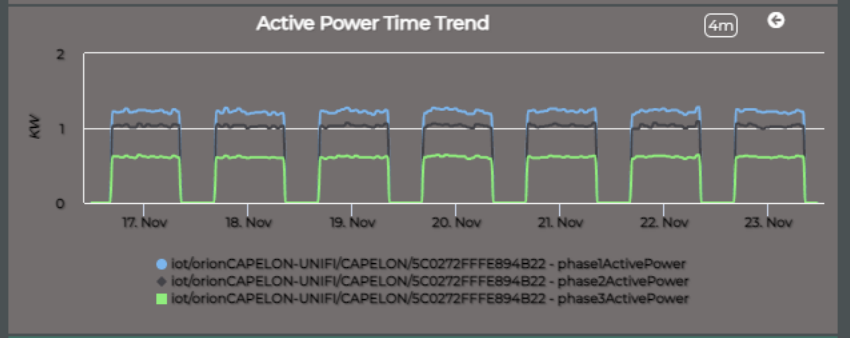
CAPELON

Tue 23 Nov 11:45:07

- Cabinet
- Smart Light
- Demo Lamp
- Smart Waste

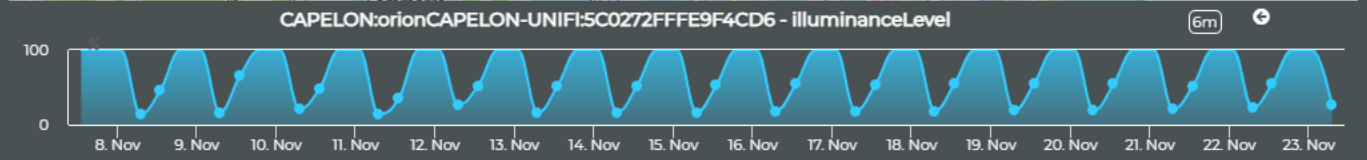


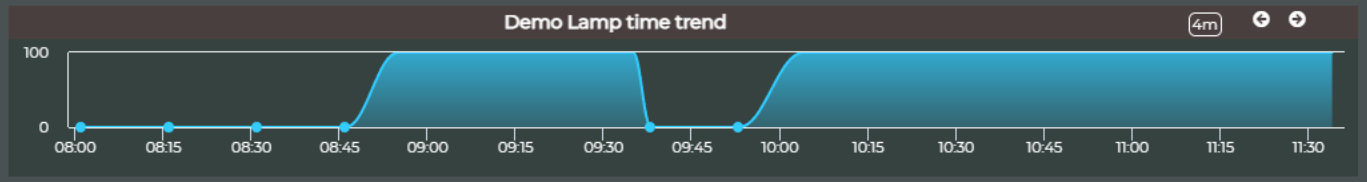


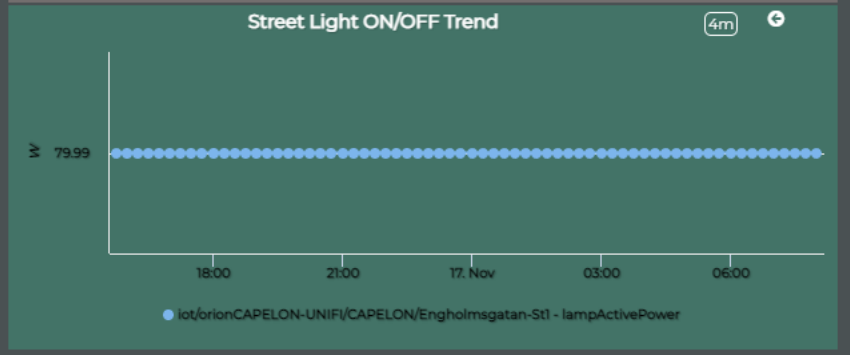


Lamp ON

Lamp OFF







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