

Our mission

Make the world's buildings into ready and able inhabitants of the smart city.





ProptechOS is for property portfolio what Windows was for the PC.

ProptechOS



The operating system for real estate owners

ProptechOS provides The best way to build and the easiest way to use proptech apps

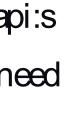
Best way to build

- All real estate data available in a common format regardless of underlying system
- A standard API for accessing data and interacting with edge sys
- Rich useful digital twins of systems, buildings, people and proc
- No vendor lock-in in either apps or edge integrations, Real Esta
- ProptechOS is developed by the founders and leading develope RealEstateCore
- An SDK that ensures quick time-to-value for app developers
- Maintain control and ownership of all data

ProptechOS

Easiest way to use

	 Apps that are ready to use 				
	 Get value instead of starting integration 				
stems	 Choose between apps to find your best match 				
Desses.	Givestrue interoperability of apps-no empty promises of open-a				
tateCore	Sensor data can be used by multiple apps. Each new app does not r new hardware investment.				
ersof	 Handle user access once instead of keeping multiple directories up date 				
	Maintain control and ownership of all data POWERED by				
	• Pay as you go				

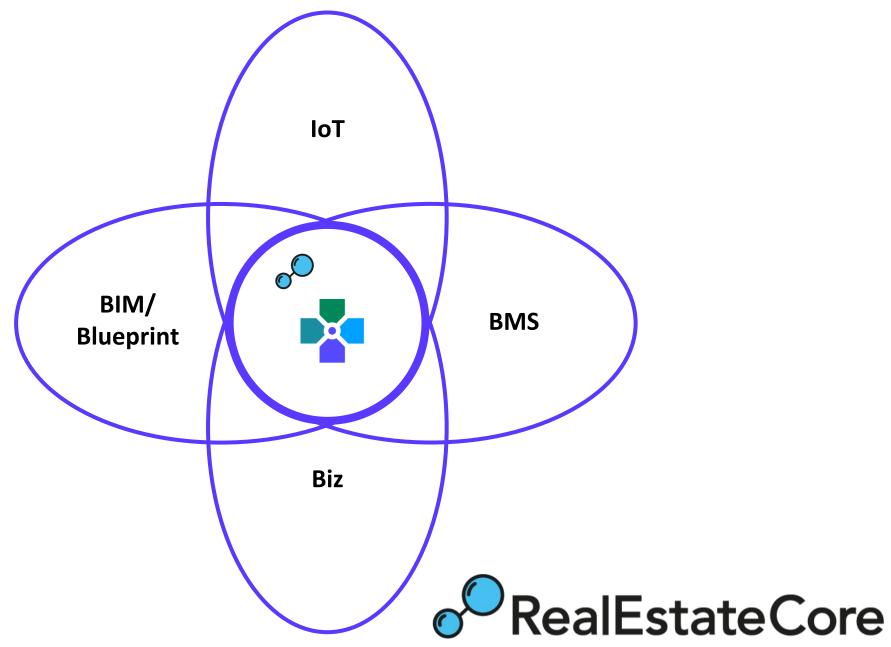


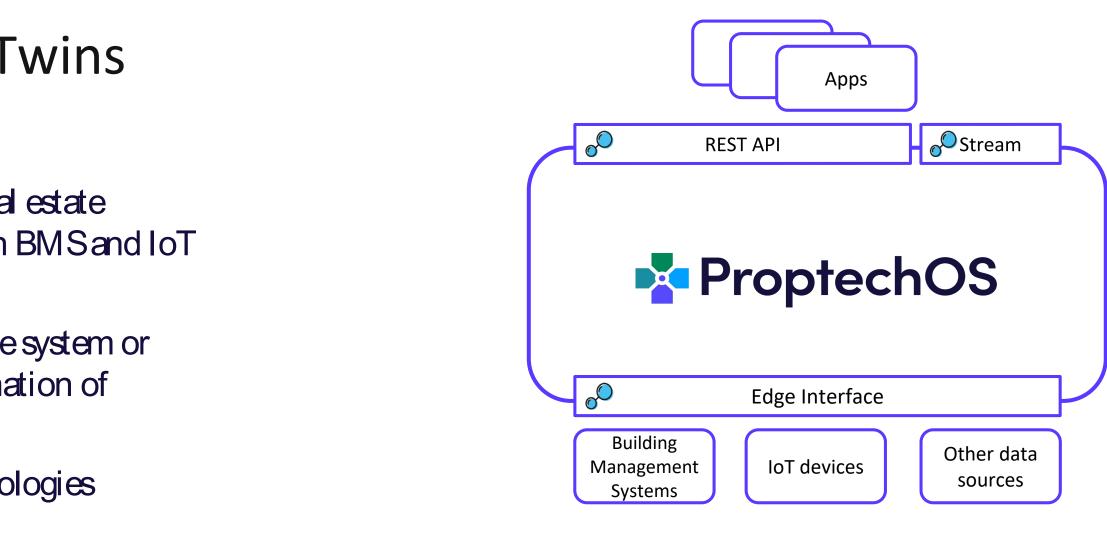


RealEstateCore

ProptechOS is a RealEstateCore Digital Twins platform

- RealEstateCore is a model for combining information from the real estate disciplines of Building information, Device information from both BMS and IoT systems, as well as business data.
- ProptechOS and Real EstateCore are built on the idea that no single system or source of data can be as complete, accurate or useful as the combination of multiple sources.
- Collaborative Digital Twins—connect different systems using ontologies

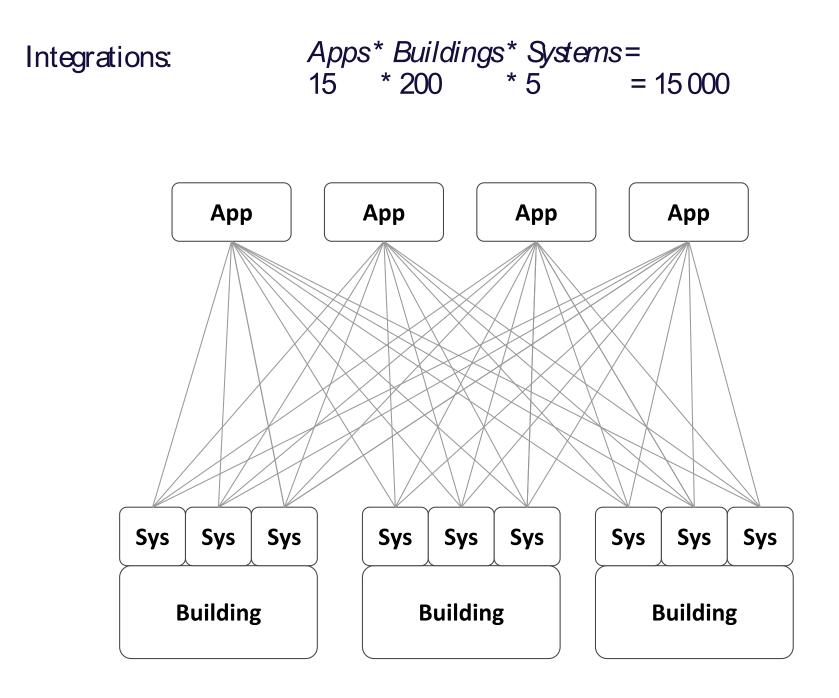




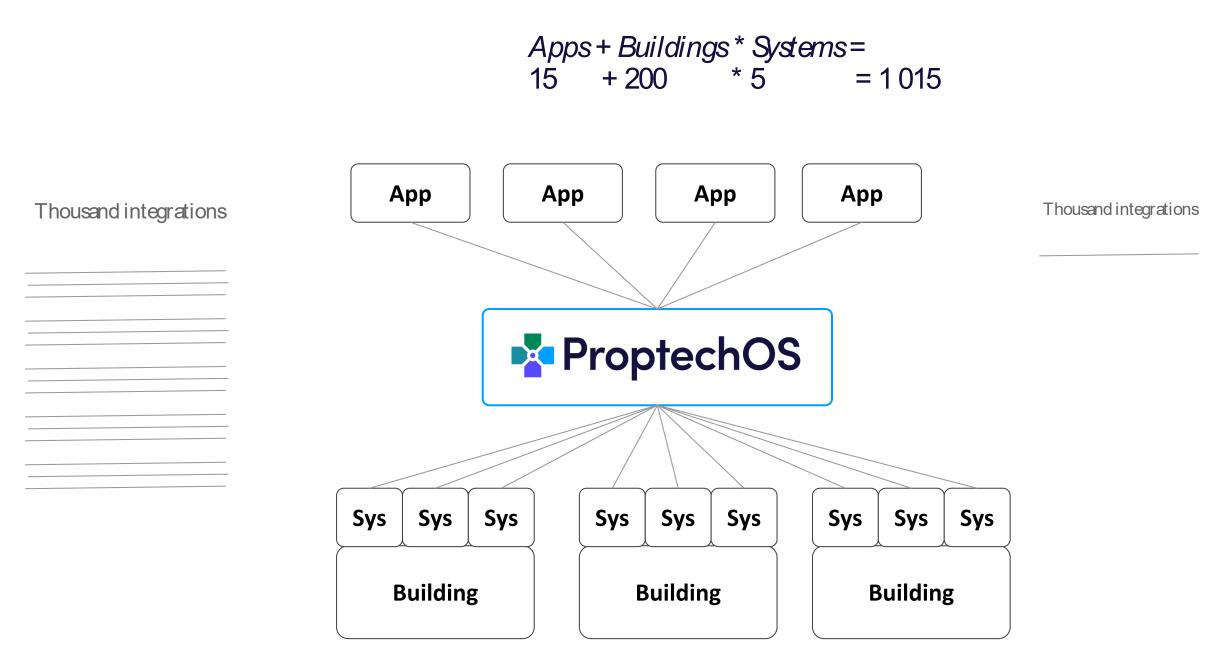
Values

- Enable the business to drive innovation fast implement and try out new applications cost efficiently
- Help to break sole supplier dependencies Ready-to-use standard applications from Real Estate Core application suppliers with low cost and fast deployment
- A platform to solve practical problems and automate based on data onboard and implement machine learning at scale
- Toolbox to implement ESG strategy

Integration at portfolio scale



New app: New system in a building: **Refurbished room:**

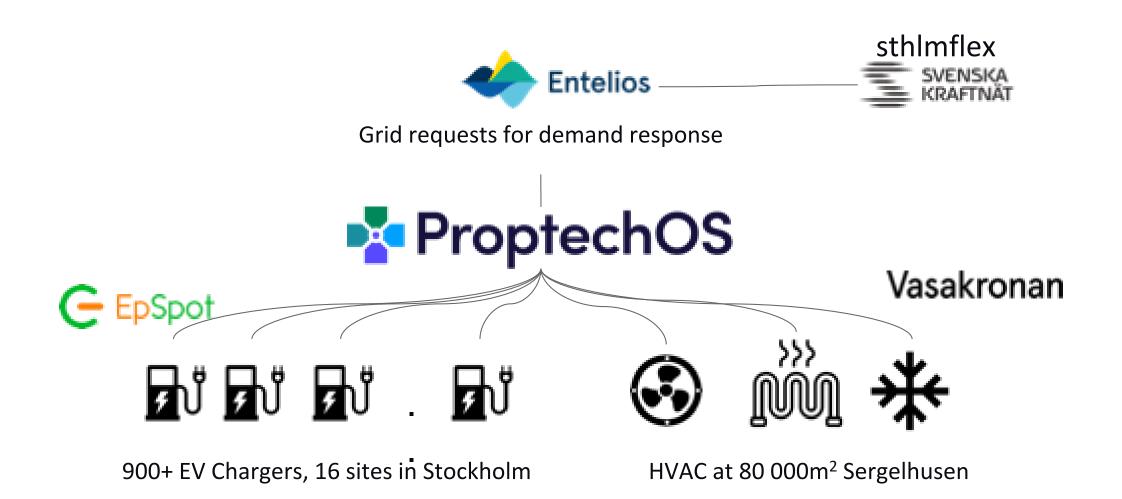


1 000 integrations 15 integrations 15 - 750 integrations

1 integration 1 integration 1 integration

Customer cases

Vasakronan joins the supply side



Vasakronan's array of EV chargers and the flagship property Sergelhusen participate in the Stockholm grid flexibility market with power demand response.

(no hardware investments and no new device integrations)

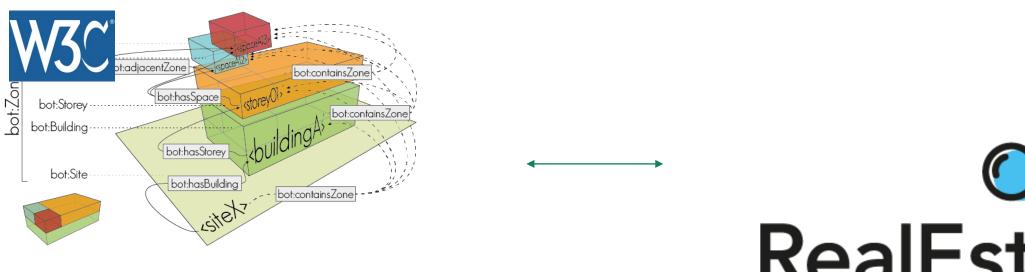
YIT wins Smartest Building Award



YIT's Vallila property is decorated by Smart Building Certification after empowering Smarten Spaces with a wide set of presence and IAQ sensors and empowering Granlund Manager with work orders via FDD in Nuuka and native ProptechOS alerts.



Aligned with other leading global standards



BOT: Building Topology Ontology







Brick A uniform metadata schema for buildings

Azure Digital Twins

Microsoft

Presence reports: Utilize

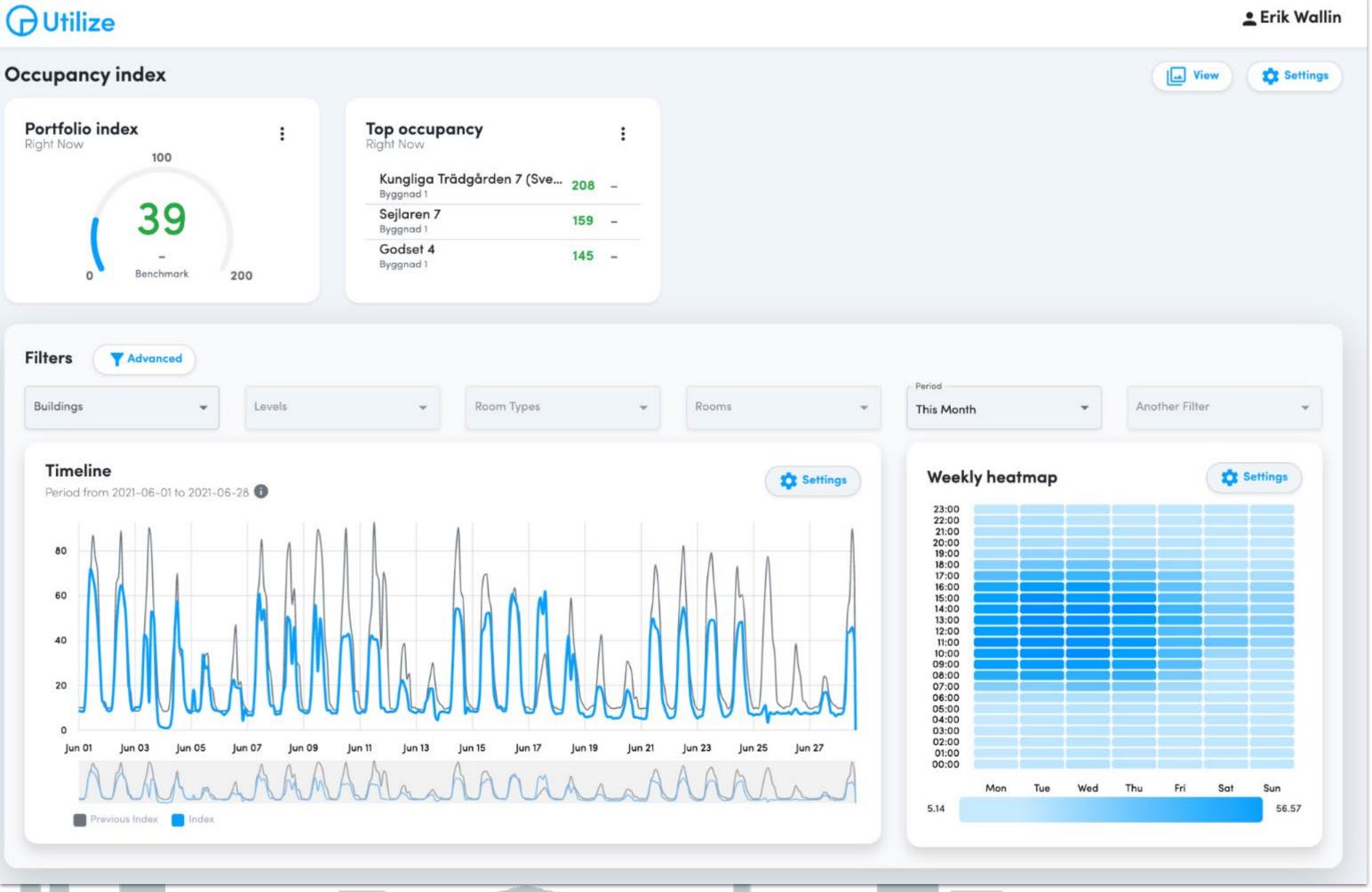
Insights into how tenants are using their premises

- **Financial**
- Occupancy level
- Strategic
- Facility management on demand

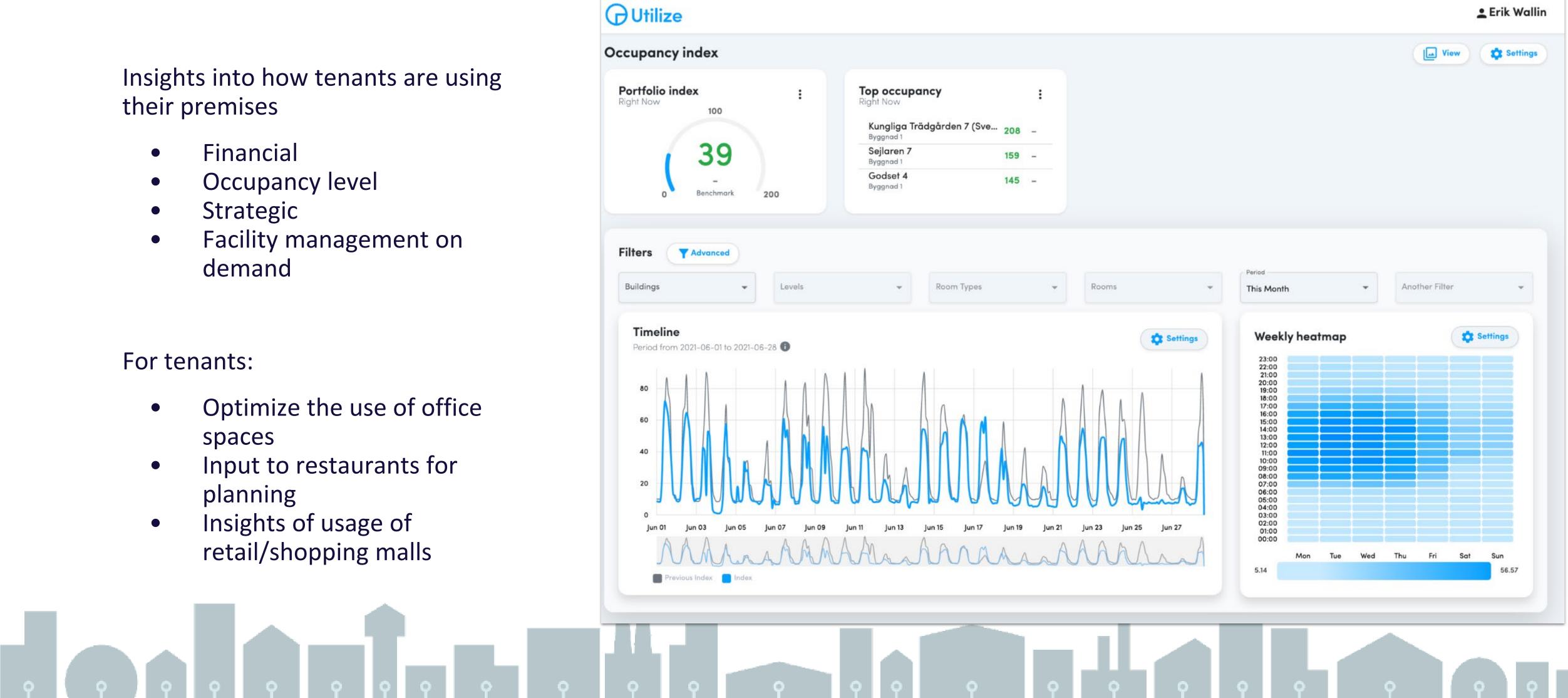
For tenants:

- Optimize the use of office spaces
- Input to restaurants for planning
- Insights of usage of retail/shopping malls

OUtilize











Optimize: Energy Performance





- Energy performance analysis
 - **District Cooling**
 - **District Heating**
- Take data from Stockholm Exergi and Göteborg Energi
- Scales to full portfolio
- Example of savings per building at Vasakronan:
 - KSEK130/yr (reduce tariff)
 - KSEK820/yr (heat pump)
 - KSK160/yr (peak shaves)



ESG Dashboard

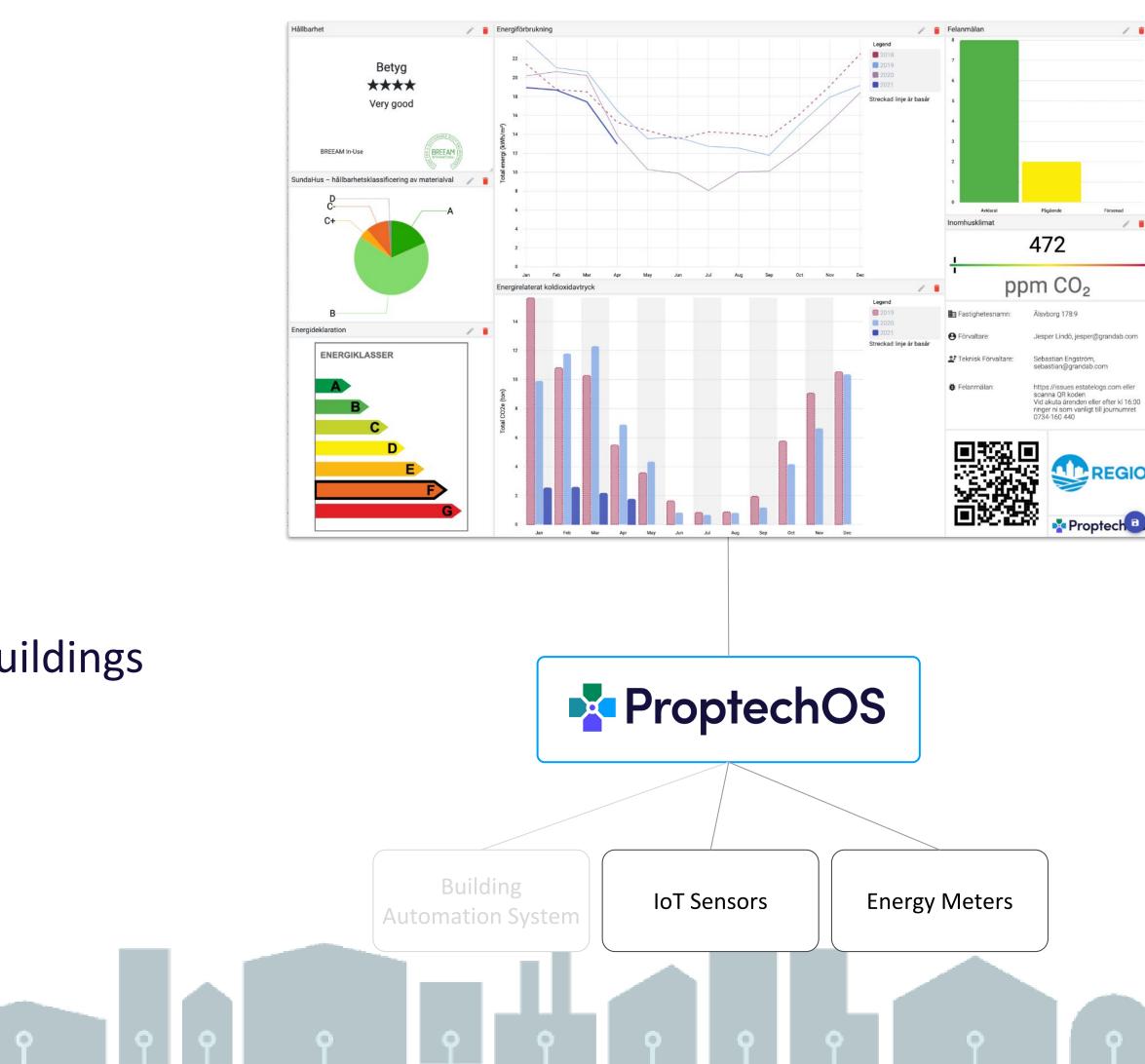
Scope

- ESG goodwill benefits
- Increased tenant satisfaction
- Indoor climate visualization/improvement

New features

- Take external data of interest to tenants
- Dashboard to be placed in e.g. entrance of buildings





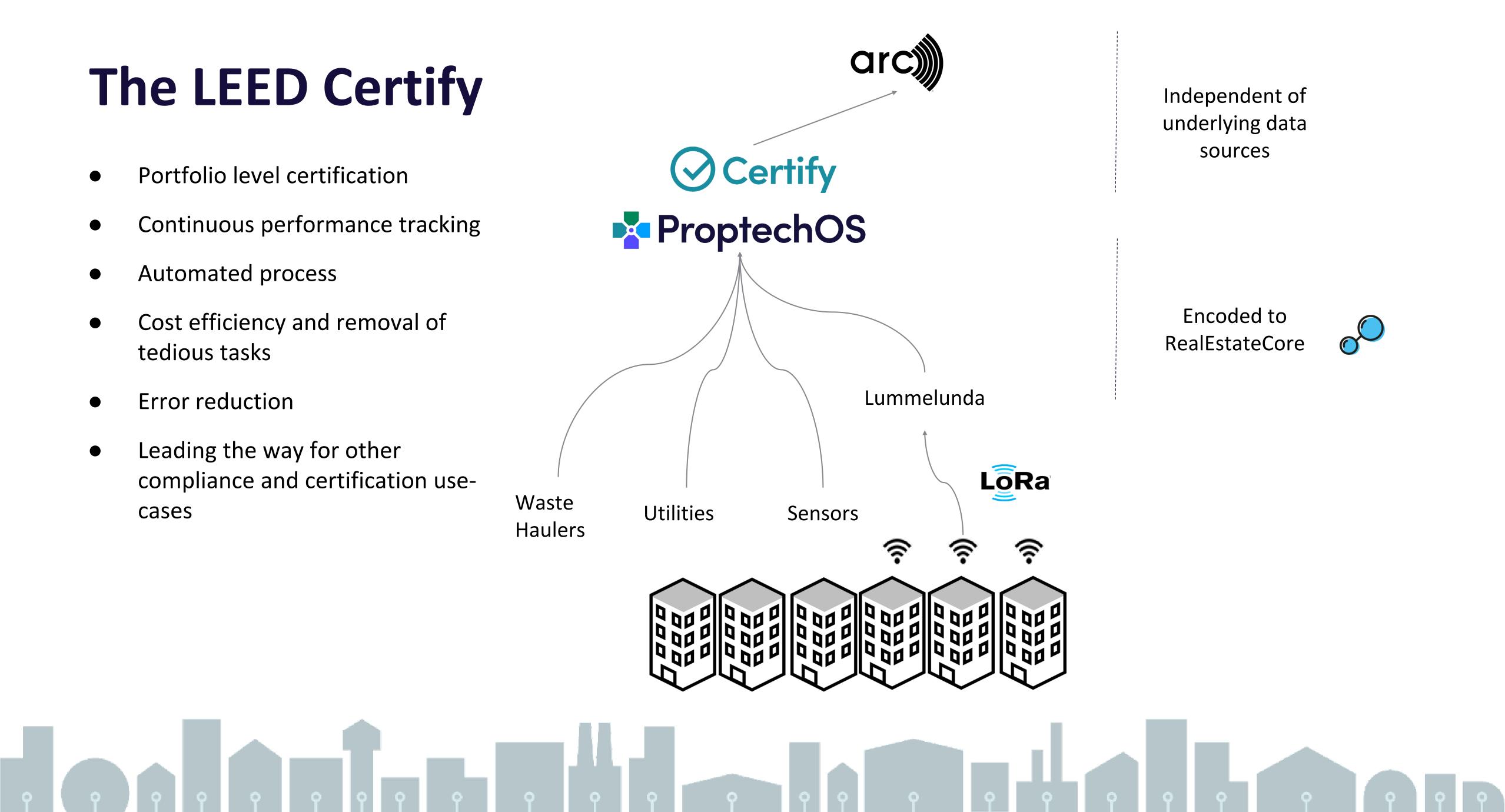




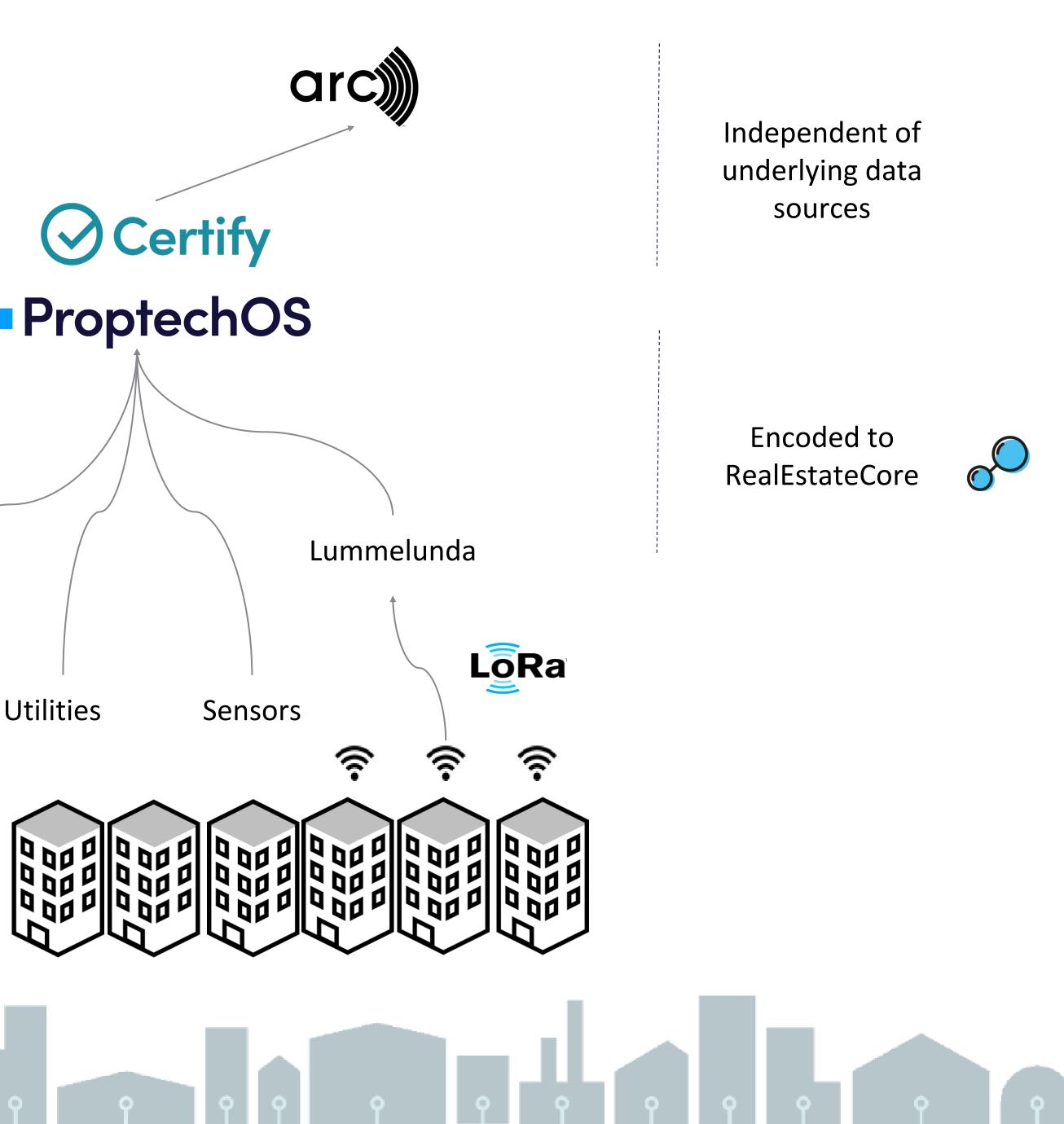
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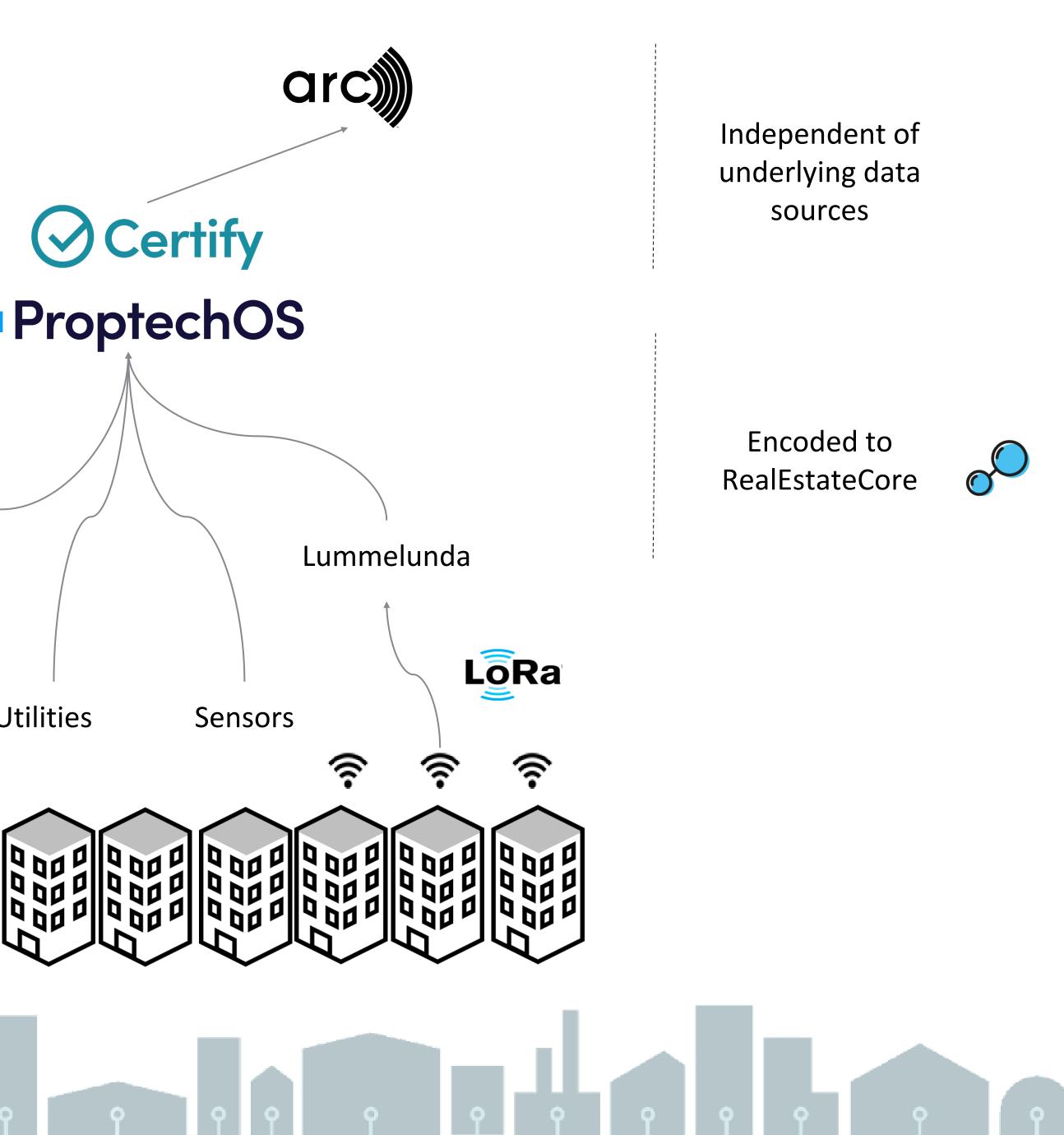
The LEED Certify

- Portfolio level certification
- Continuous performance tracking
- Automated process
- Cost efficiency and removal of tedious tasks
- **Error reduction**
- Leading the way for other compliance and certification usecases





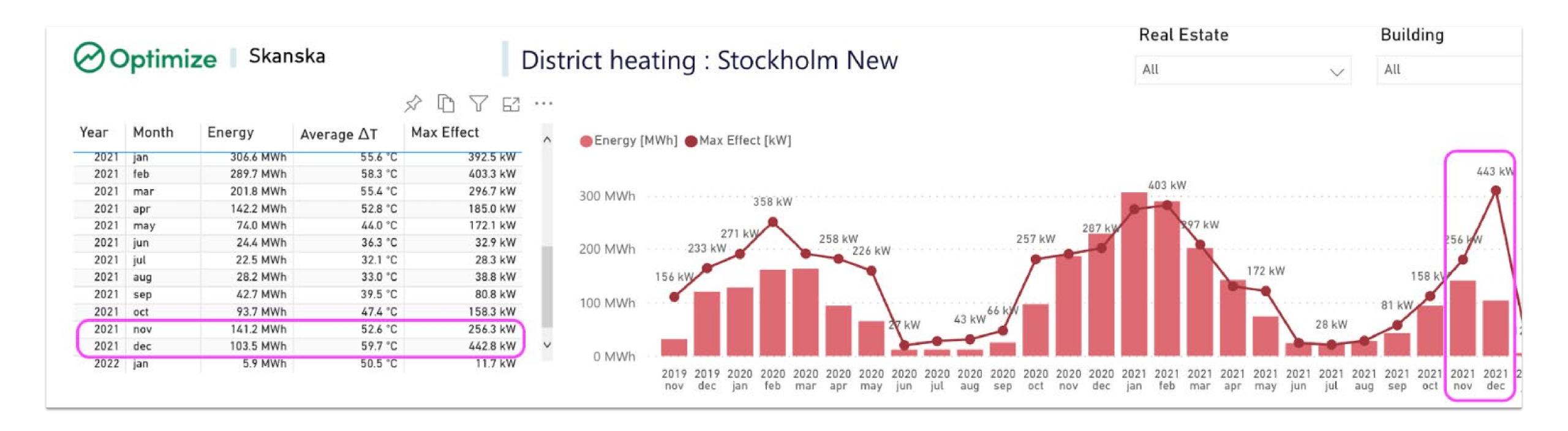






Get Alerts to CAFM-system

Example: High power peaks district heating in December 2021



Onboarding

What do I need to do to get started?

Real Estate	Building	Storey	Building component	Device	Service
Description					
The parts that makes	s up a building structure	(Building). E.g., Roo	om, Facade, RoofInner, etc.		
Structure of data					
Start		2	Validation		3 Crec
All data	was verified and is corr	ect! Axioms can be	created! Show data		

Building Onboarding Create a Real EstateCore digital twin of a building or buildings in ProptechOS.

Devices Onboarding Create a Real EstateCore digital twin of devices in a building or buildings in ProptechOS.

Edge Onboarding Connect devices and other data sources from the Edge, using Real EstateCore connectors that transform and enable two-way communication to ProptechOS.

App Onboarding

Set up roles, groups and policies to provide access for Apps to data in the intended way.