

40% CO₂ emissions!

Save Energy up to - 30%

Increase Indoor Comfort by +
30%



Lubja 4, Tallinn Estonia



25 000
m² office building

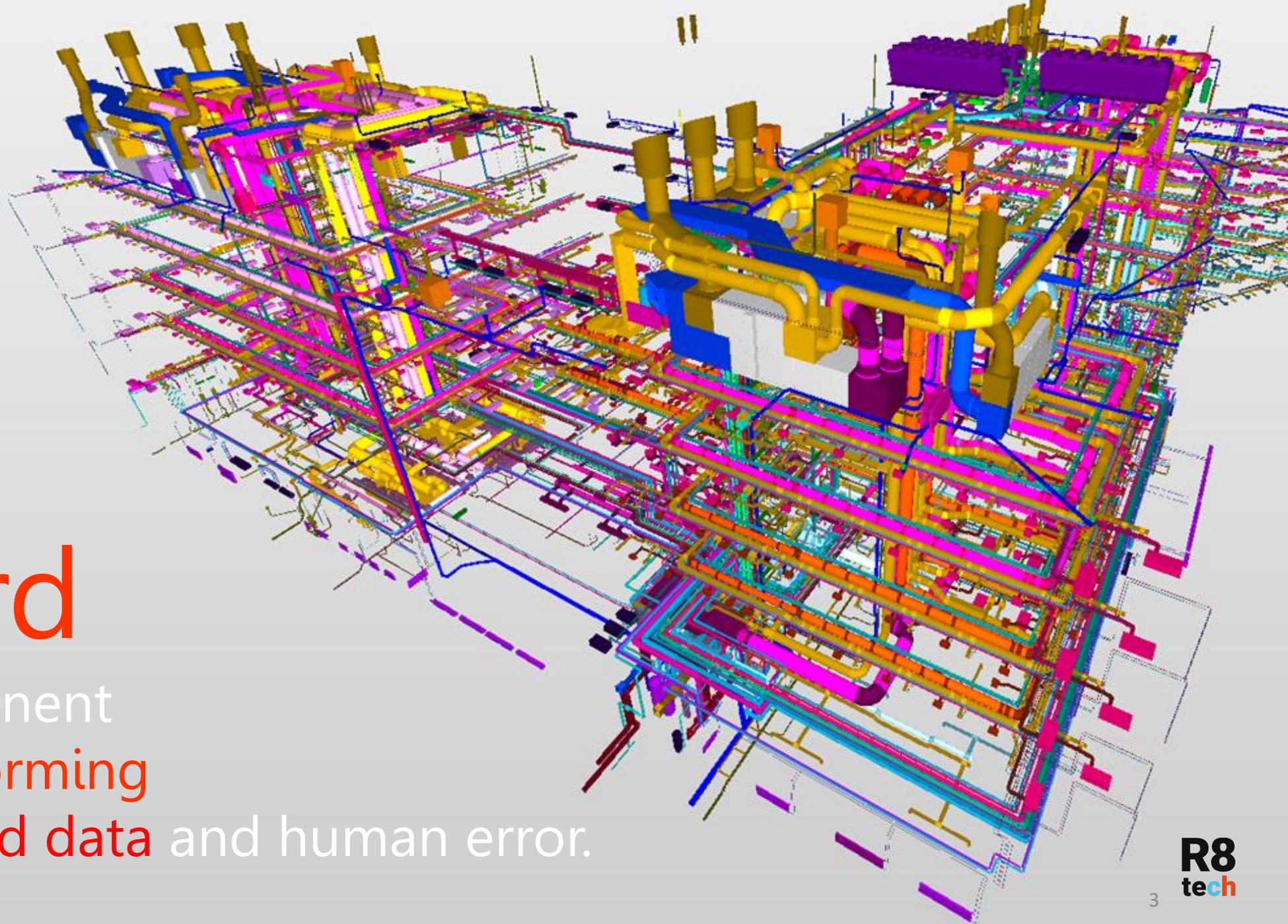


~ 3 000
controllable
HVAC components



~ 50 000
datapoints

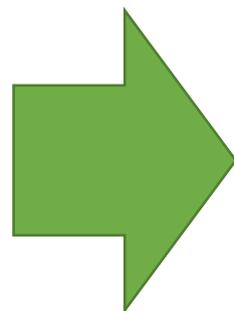
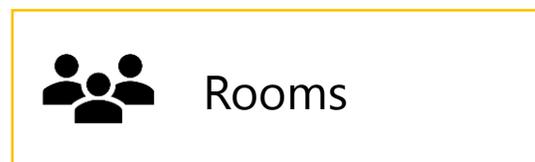
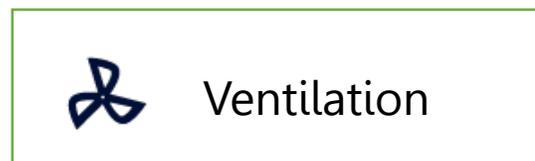




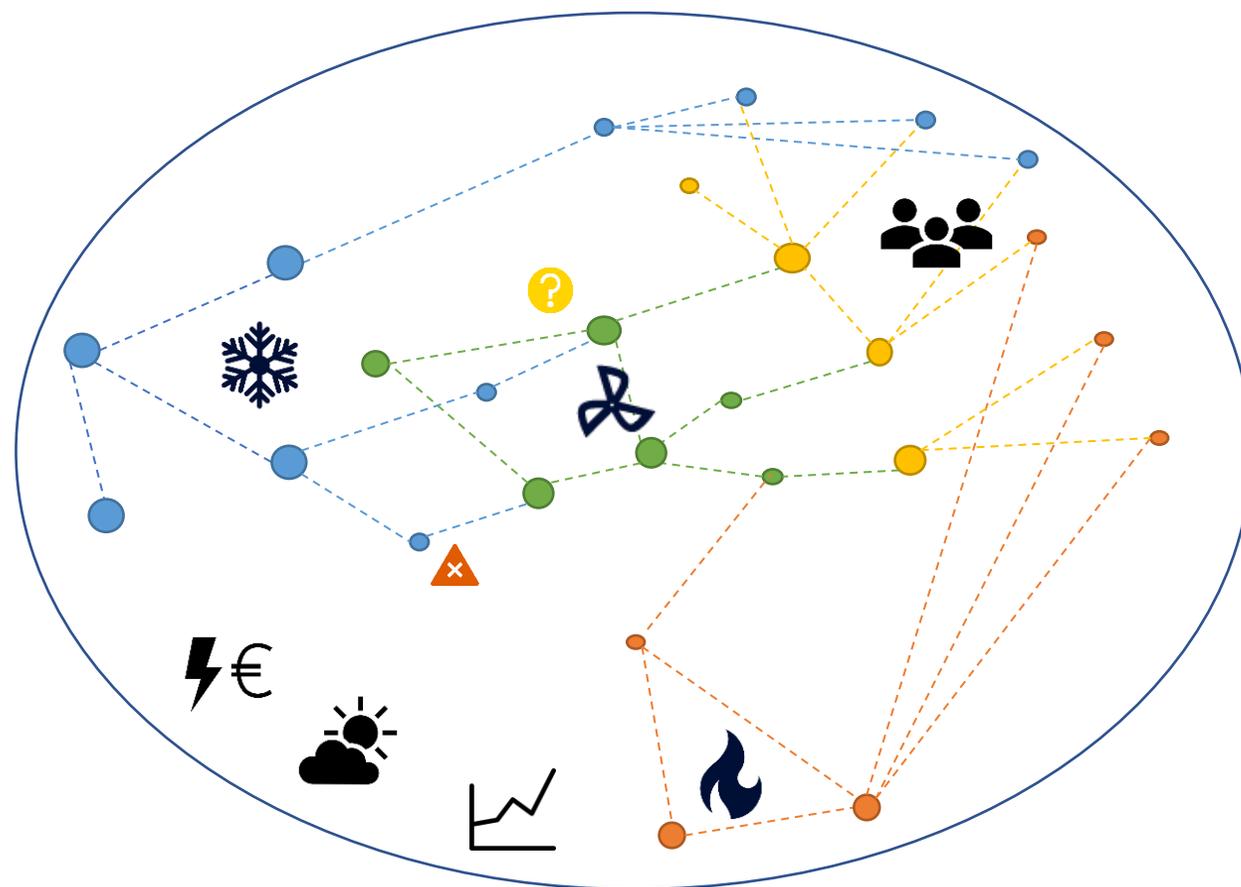
Every **third**
HVAC component
is **underperforming**
due to **unused data** and human error.

Automated Process Management

Building automation systems are **sub-isolated** and “managed” independently.



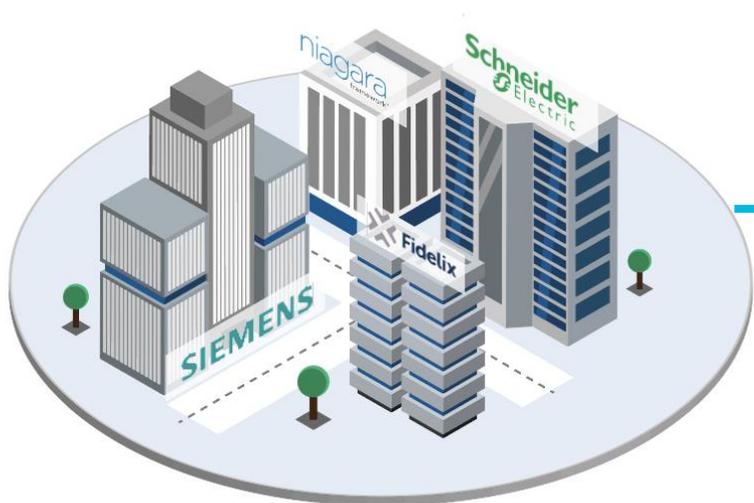
R8 Digital Operator



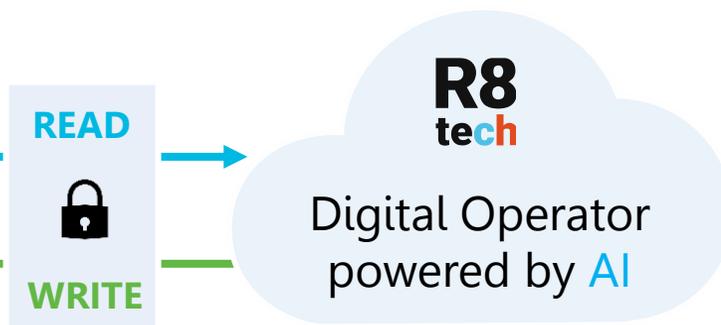
R8 Digital Operator works 24/7

to ensure highly performing smart buildings

Remote Set Up



Cloud solution



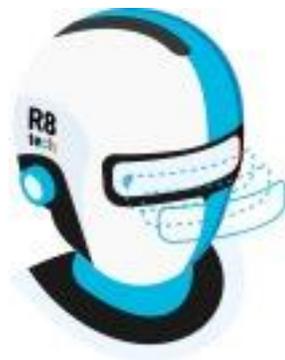
Key Performance Indicators

-  Energy Efficiency ✓
-  Comfortable Indoor Climate ✓
-  Technical Condition ✓



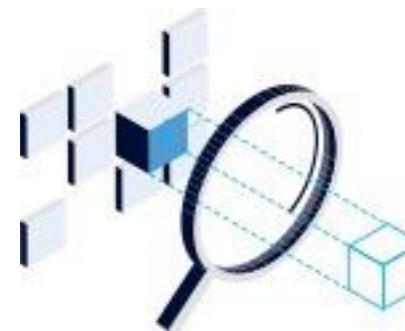
R8 Digital Operator works 24/7

to ensure highly performing buildings



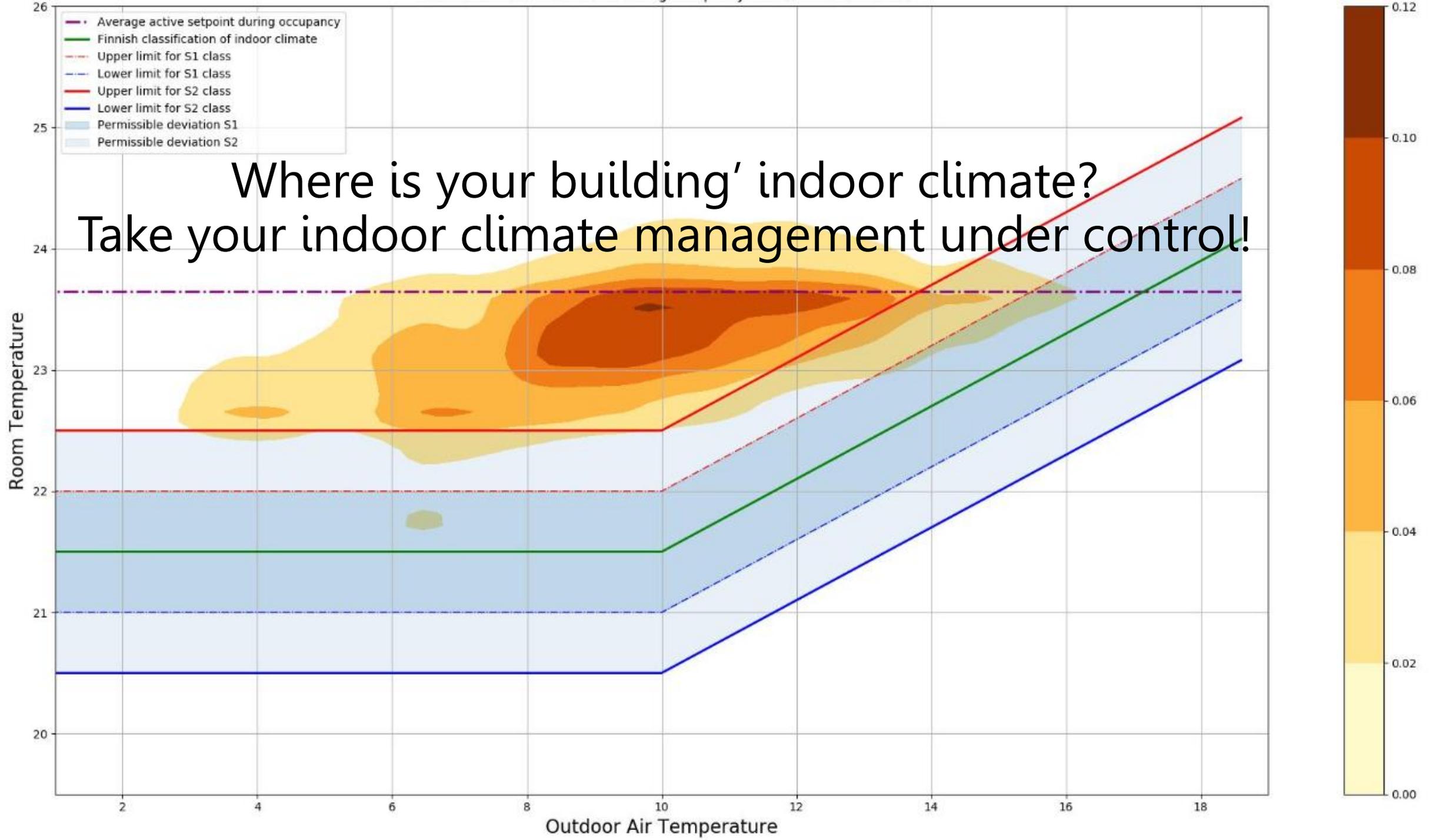
Autopilot

AI maximizes
HVAC systems operational efficiency



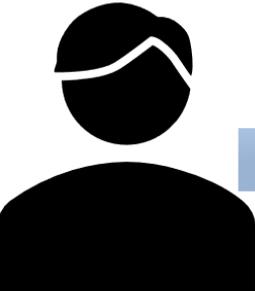
Diagnostics

data driven automated analytics detect
HVAC systems faults



Autopilot & Management

Real-time Interaction



FM
Preferences

Room Type	Rooms	Lowest °C	Highest °C	Max allowed temp change when room is occupied (in comfort mode)		
Kitchen	LIST	21	25	Smaller temp change	<input type="range"/>	More savings SAVE
Public Space	LIST	21	25	Smaller temp change	<input type="range"/>	More savings SAVE
Restaurant	LIST	22	25	Smaller temp change	<input type="range"/>	More savings SAVE
Security	LIST	22	24	Smaller temp change	<input type="range"/>	More savings SAVE
Shopping	LIST	21.5	24	Smaller temp change	<input type="range"/>	More savings SAVE
Storage	LIST	20	25	Smaller temp change	<input type="range"/>	More savings SAVE
Telecommunication	LIST	24	24	Smaller temp change	<input type="range"/>	More savings SAVE
Vestibule	LIST	14	24	Smaller temp change	<input type="range"/>	More savings SAVE

Name Min Max Smaller temp change More savings [ADD](#)

Energy

Indoor Climate



Intelligent Control

The R8 logo, featuring a stylized blue and white head with a visor.

Every 15
minutes

Diagnostics

- < **Data driven** fault detection with ticketing and validation.
- < **10 times** more precise HVAC systems fault detection compared to specialists.
- < **-20%** maintenance and renewal cost reduction over the HVAC systems life cycle of 20 years.
- < **59 000+** faults and anomalies detected.



Room temperature is too high, and fan-coil has been working 97.6% of the time past 3 days. Check fan-coil.



The room switches frequently between cooling and heating (35 times during the last 2 days). Calibrate room controller.



Ventilation unit valve leakage has caused overconsumption of 500 €/week



Cooling circuit pump is not following the pressure set point. Check the pump and hydraulics.

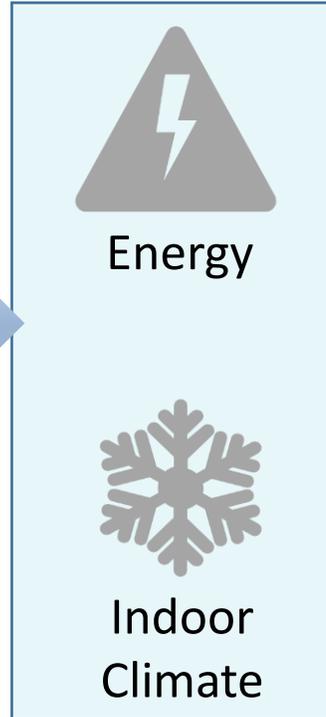


Heating plant supply temperature set point is not achieved 75.2% of the time, average temperature difference 14.2°C. Check valve and heat exchanger.

Diagnostics & Management



Diagnostics



*Transparency &
Tasking*

Priority	Location	Description	Create time	Assignee	Status
HIGH	AHU nr 378, 1st, 2nd and 3rd floor in West-wing Sensor	Sensor fault. Value constand and not changing at 0.00 C.	2019-09-07 10:36	JS	New
HIGH	Charli pizza, 2nd floor, room nr 2890A Sensor	Room temp sensor is giving constant or unrealistic readings. Check sensor and network connection.	2019-09-11 16:43	JS	New
MED	30RB0342 CHILLER3 Return temp	Sensor is giving constant readings.	2019-09-12 06:55	MS	Done
MED	AHU 6 Valve opening	The heating and cooling valves have been open at the same 19 times during last week. Reconfigure controls.	2019-08-19 12:01	MS	On hold
MED	AHU 3 Return air CO2 level	Sensor is giving constant readings.	2019-09-14 22:16	MS	In progress
MED	Technical staff, 3rd floor, room nr 378C CO2 level	the Aranet wireless sensor (serial = 300086) has low battery level (22%). Change battery.	2019-08-22 07:32	MS	In progress



Lubja 4, Estonia



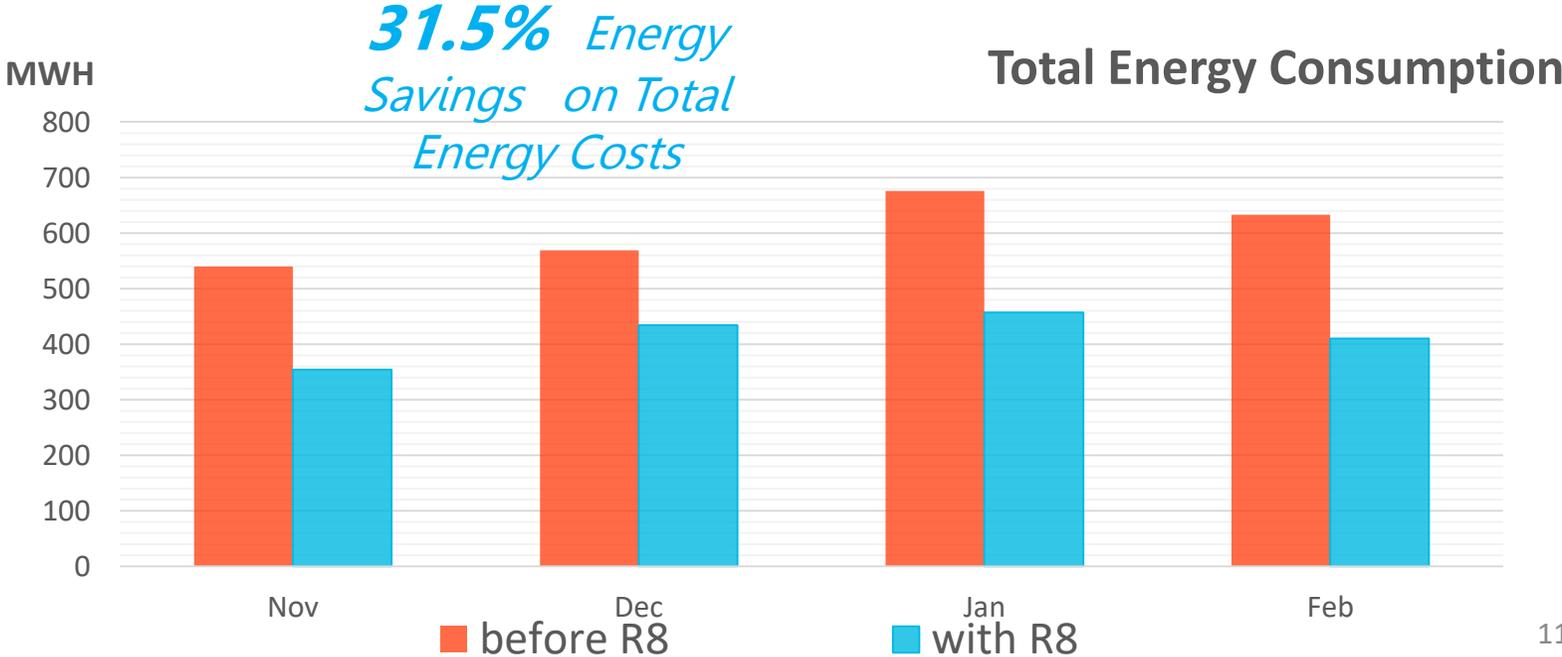
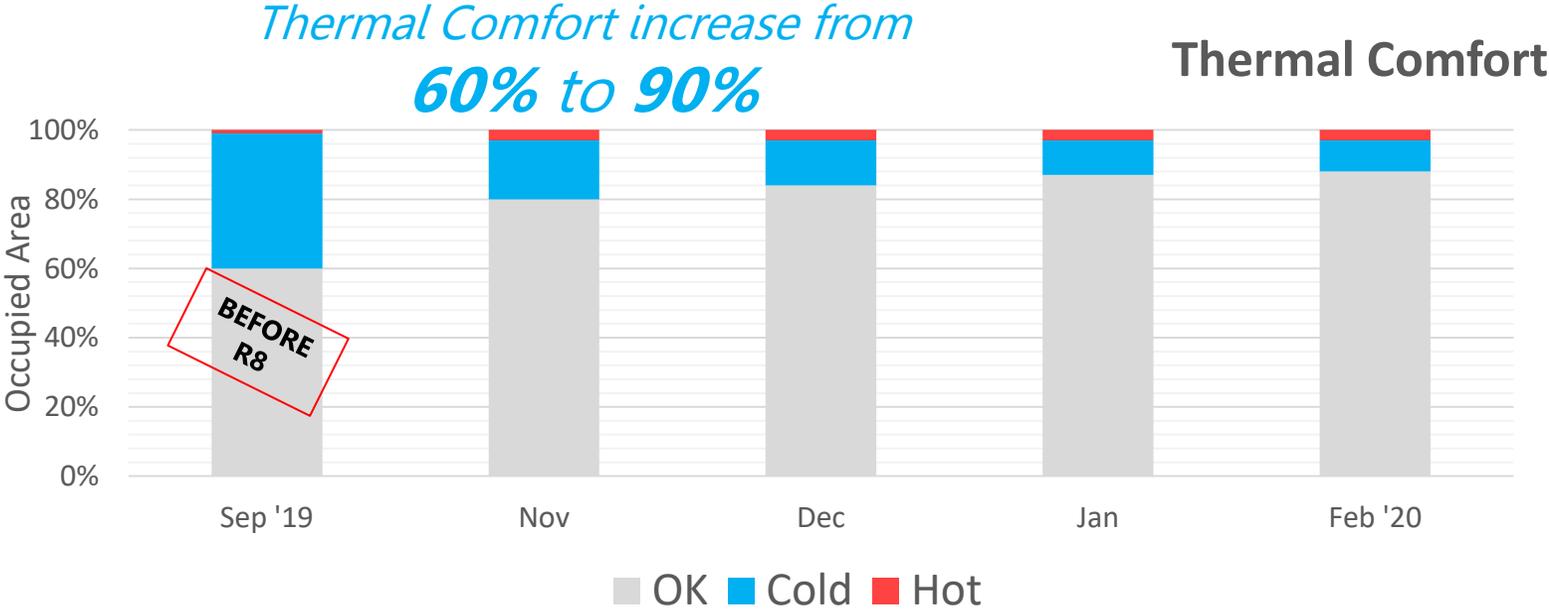
680 000 adjustments made



900+ faults and anomalies detected



225 000+ kg CO₂ savings



References: 650 000+ m2



R8tech in Numbers



11
countries



500 000+
datapoints



650 000+ m²
portfolio size



10 000 000+ kg
CO₂ savings



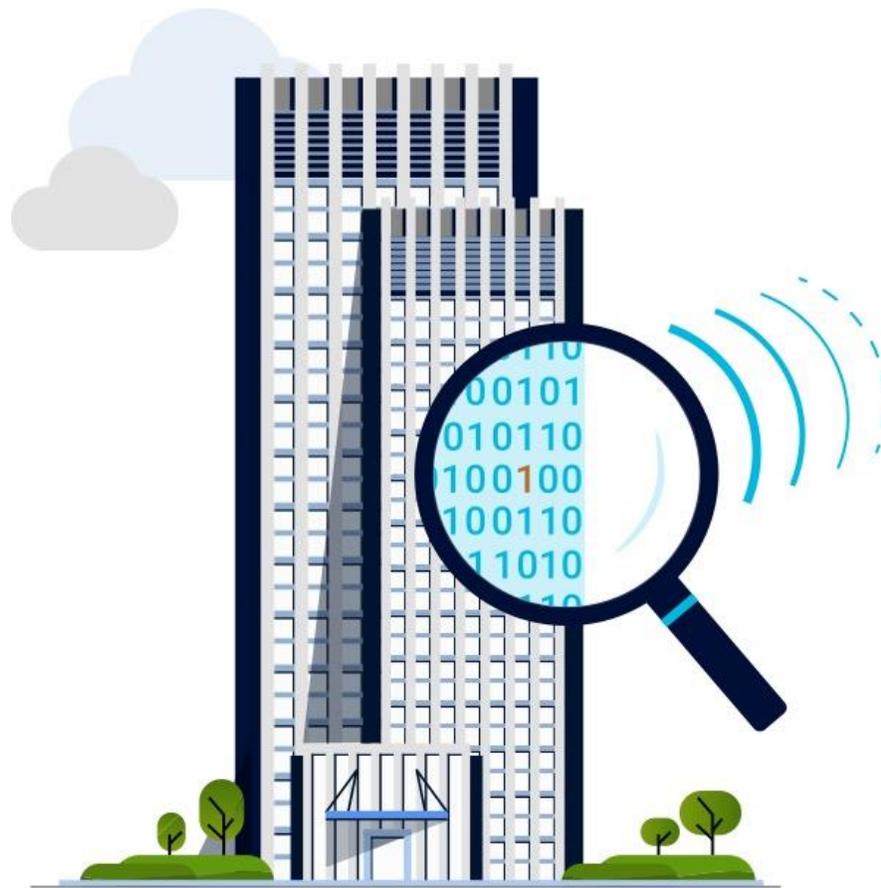
2017
founded



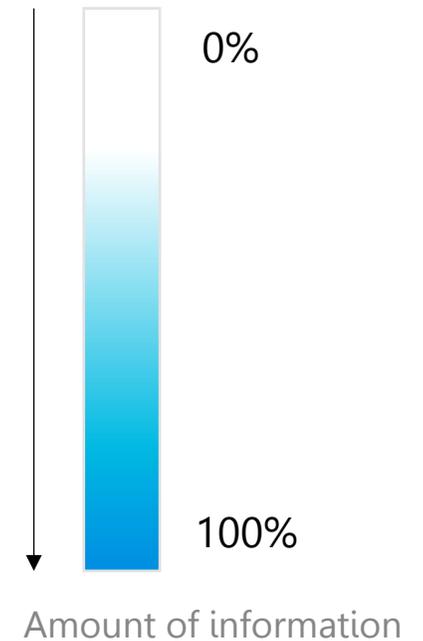
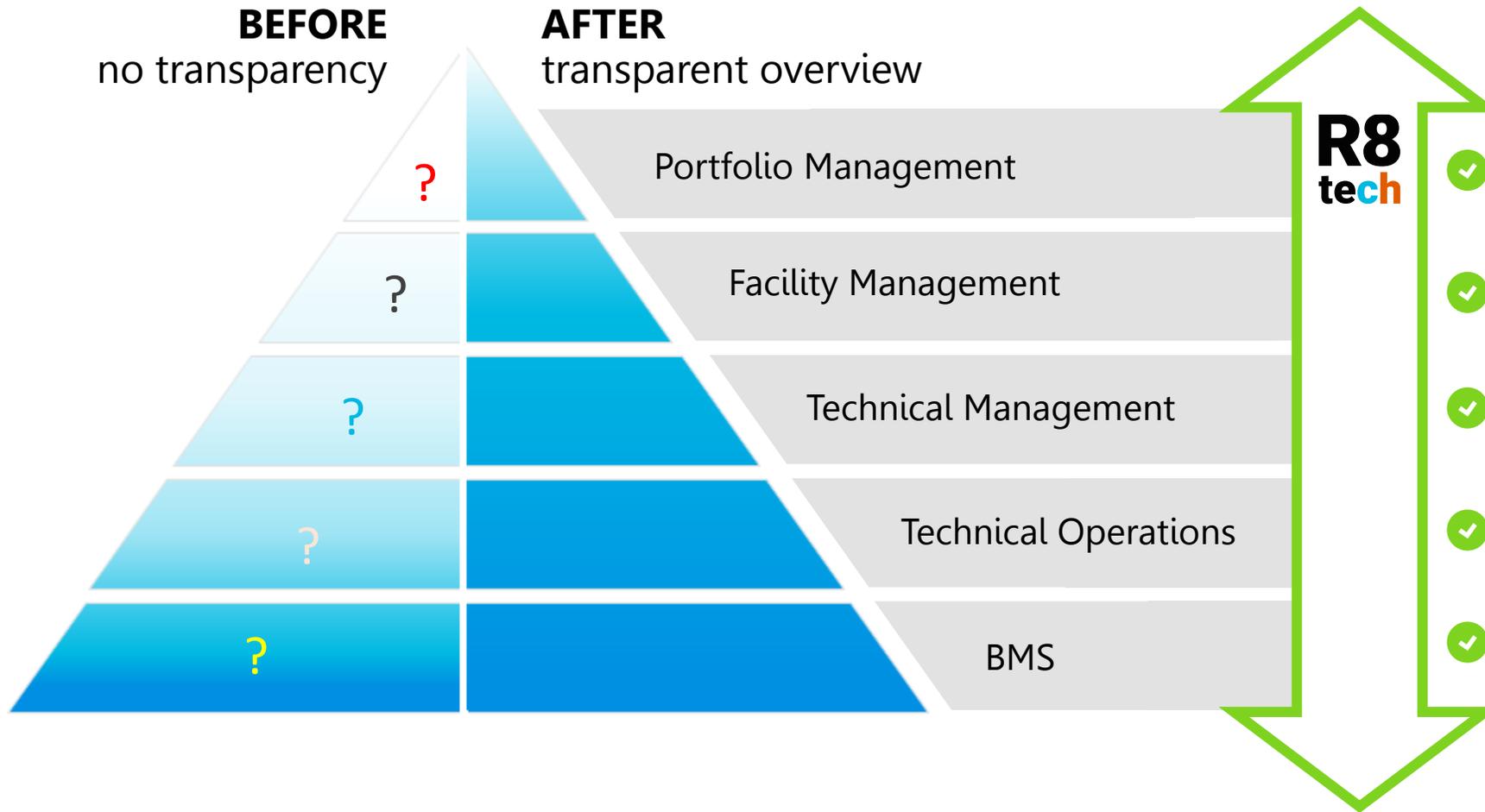
Digital Operator **integrates securely** with all common and modern BMS **without any additional hardware.**

We are known for...

-  Simple remote onboarding ✓
-  Results instead of monitoring, analytics, consulting only ✓
-  Transparent overview ✓
-  Results driven business model ✓



Information flow with R8 Digital Operator



KPIs



Indoor Climate



Energy Performance



Technical Conditions



Thank you!

Siim Täkker, CEO
siim.takker@r8tech.io
www.r8tech.io