Mr. Kristof Dupon

Chief Innovation Officer EEG Group

Smart Hospitals, when the infrastructure starts to peak





GROUP

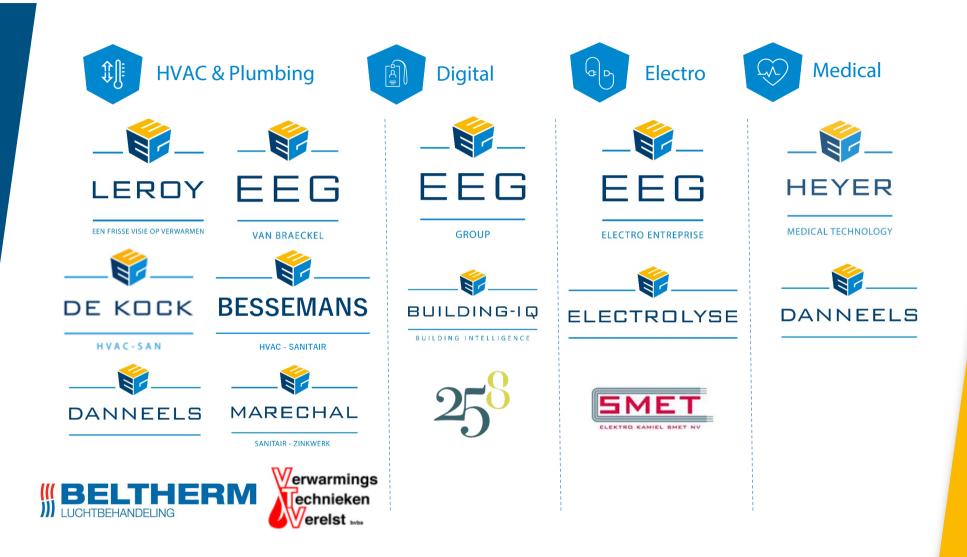
SMART HOSPITALS

EEGGROUP

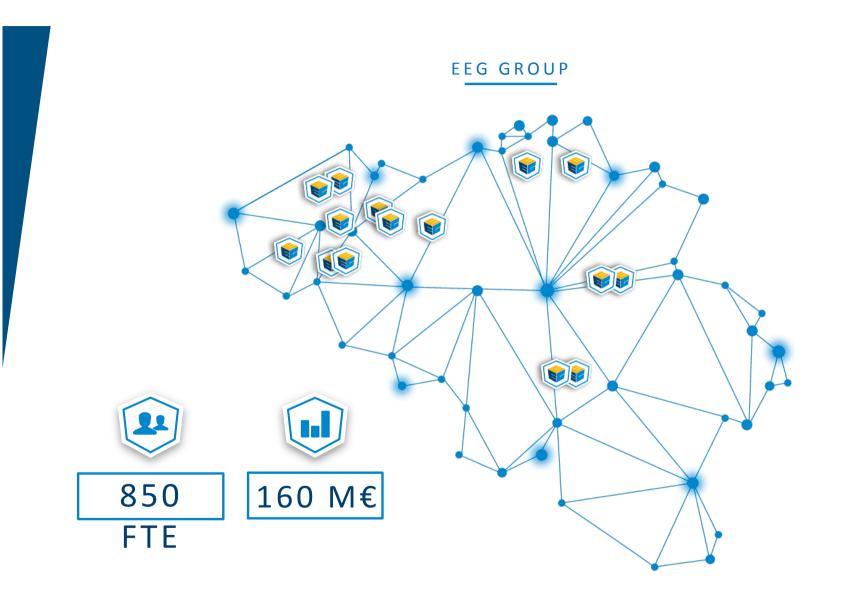
When the infrastructure starts to speak

Kristof DUPON, ir. CIO

EEG GROUI



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TECHNOLOGY ENABLERS



CONNECTIVITY



DATA SCIENCE



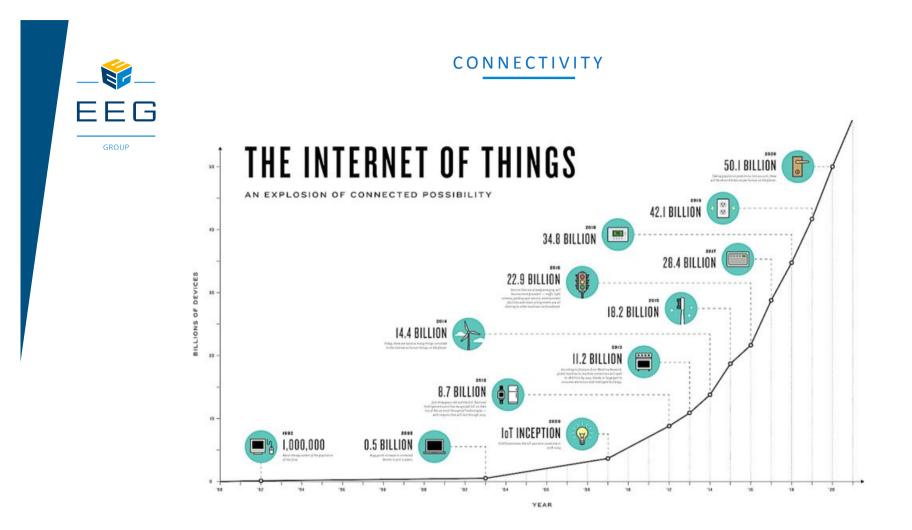
GROUP



CONNECTIVITY







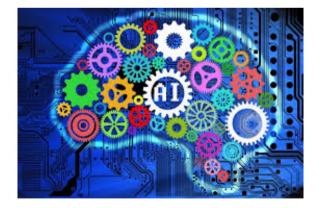


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DATA SCIENCE





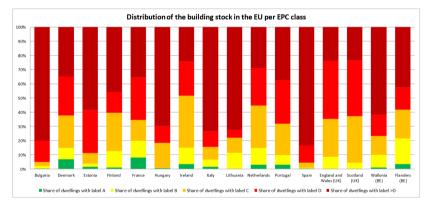




HOSPITAL INFRASTRUCTURE

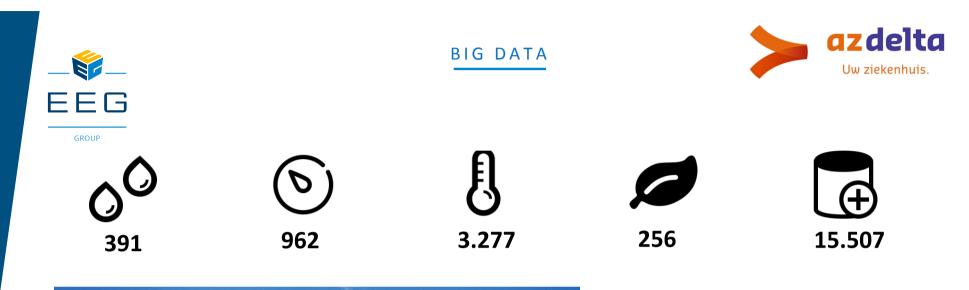
The climate challenge and European Directives which go along with it, lead to far more complex installations (retrofit or new)

Air handling units, heatpump, geothermal energy, biomass, combined Heat/power production, demand driven ventilation, ...



97% of buildings in the EU need to be upgraded to achieve a decarbonised building stock by 2050 (source BPIE)

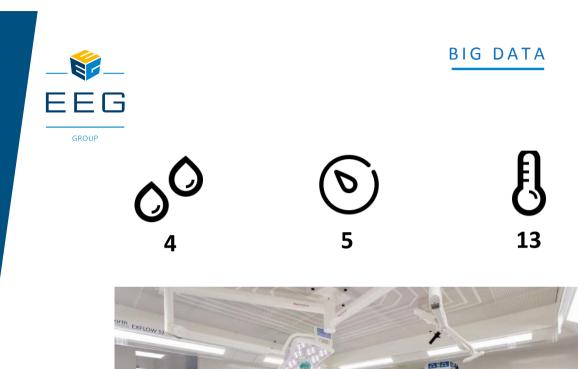






Hospital wide – 15.507 datapoints

- 15' samples
- 62.028 samples / hour
- 1,5 Million samples / day





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60

Operating theatre - 60 datapoints

- 5' samples
- 720 samples / hour
- 17.280 samples / day



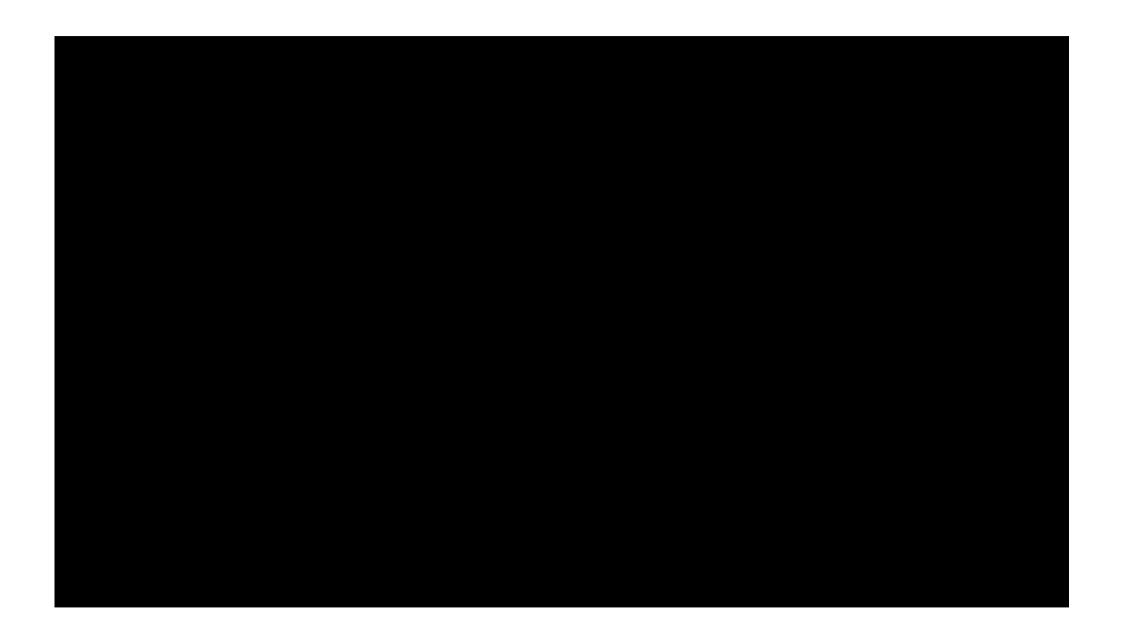


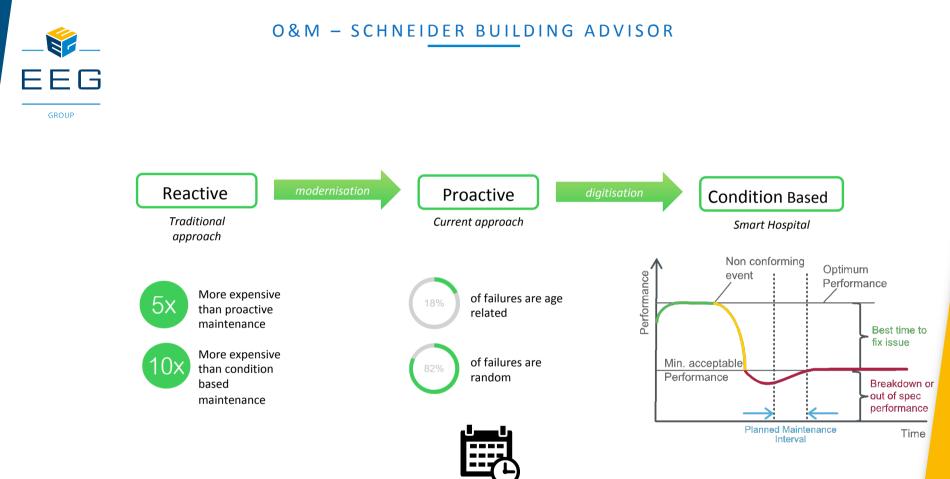


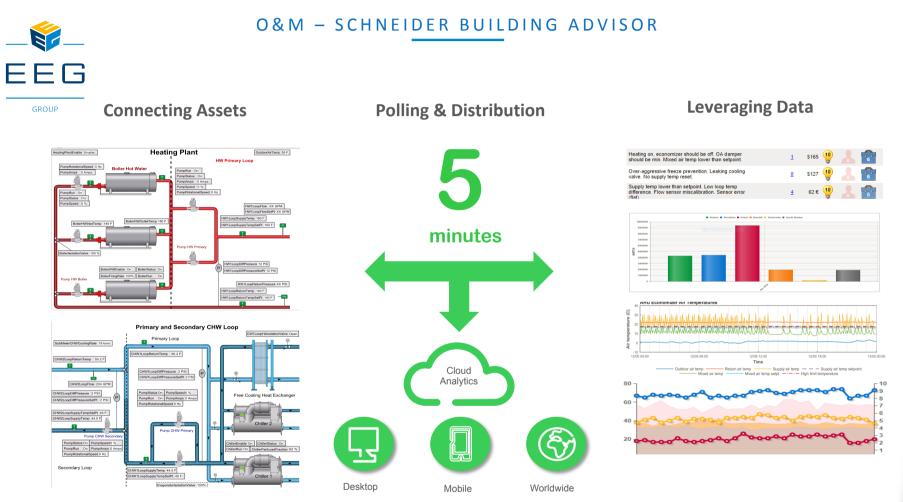


1.5 Million samples / day...









EEG GROUF

O&M - SCHNEIDER BUILDING ADVISOR



FFG

GROUP

Data point checks by Maintenance Engineers if in line with SFG20 scope Building Advisor Service Plan 1620 Data Points across 350 assets

Building Advisor checks every data point, every 5 mins, every day

1,620 checks per annum

Proactive

Current approach

170 Million+ checks per annum

Condition Based

Smart Hospital



FACILITY MANAGEMENT - SPACEWELL



MONITOR

Space Occupancy, utilization



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Comfort Temperature, Humidity

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Find Spaces, people, services

Book Rooms, workplaces, services





Cleaning Activity based, real-time follow-up

Rep Direct

Repairs Direct response, real-time view

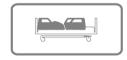




PATIENT EXPERIENCE & SAFETY HAELVOET/UNMATCHED - SMART BED















OPPORTUNITY

The combination of bidirectional communication between clinical, business, and building systems, the implementation of smart, semi-autonomous devices or sensor networks, and the use of analytics within a hospital creates endless possibilities for the development of smart, efficient, and effective hospital processes ("MacKenzie Health")





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