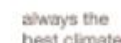




**Industry views
with respect to smart ventilation
as an enabler of
Indoor Air Quality**

EVIA Members

Companies



Associations



***“WE ARE LIVING IN THE AGE OF THE IPHONE, YET THE
ARCHITECTURE AND CONSTRUCTION INDUSTRIES ARE
STILL IN THE WALKMAN PHASE”***

QUOTE UNSTUDIO - BEN VAN BERKEL



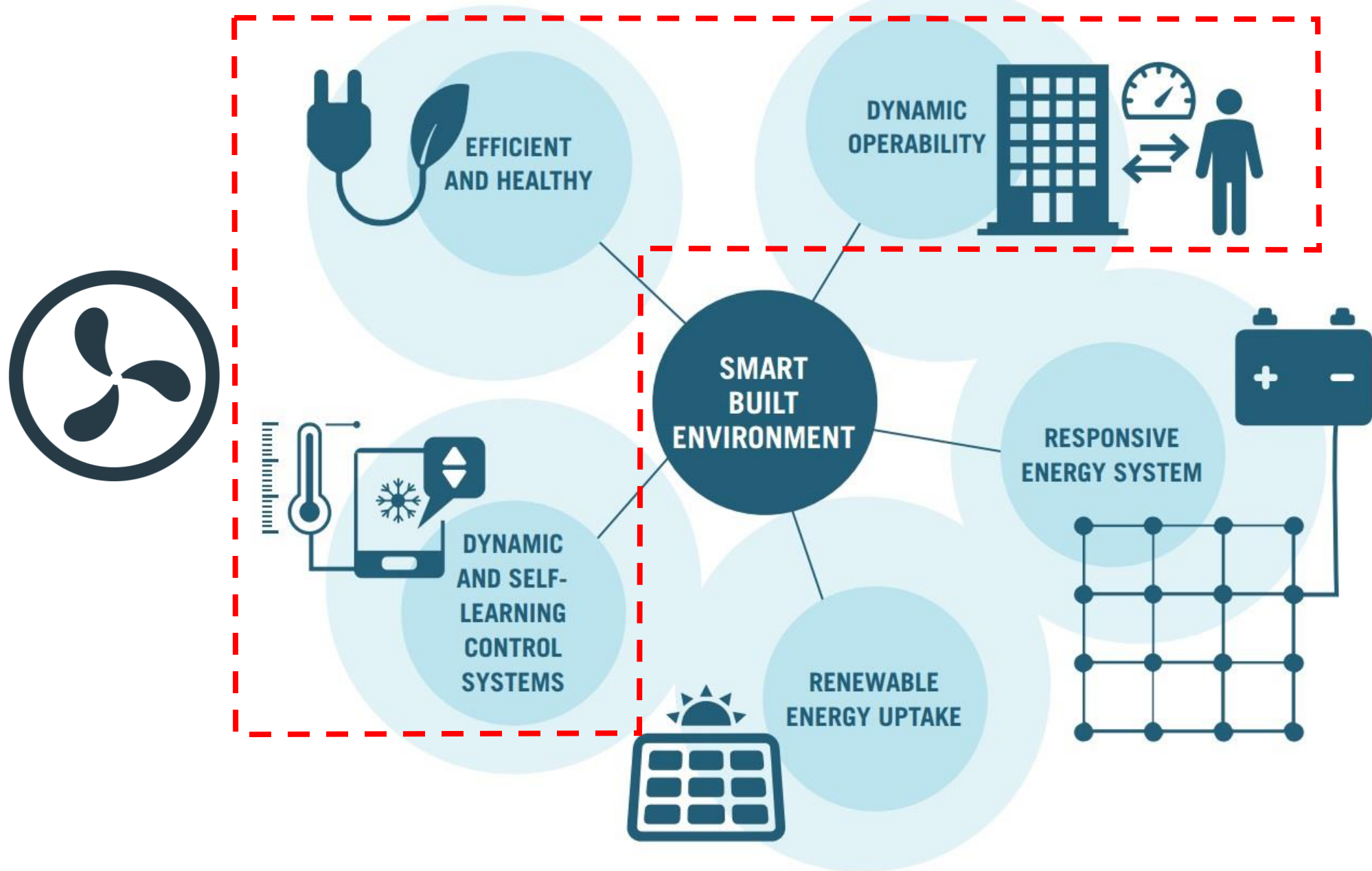
Smart items in our daily life ?



Smart home ?



Smart ventilation ?



Economic reality



THE MARKET





It's a jungle out there.

Smart ventilation in SRI

Focus on ENERGY

Smart Readiness Indicator - SRI

Measure the technological readiness of your building



1



Readiness to
adapt in response
to the needs of the
occupant

2



Readiness to
facilitate main-
tenance and
efficient operation

3



Readiness to
adapt in response
to the situation of
the energy grid

Health = **Boundary condition**

Smart ventilation in Ecodesign Lot 33?

FOR PRODUCTS IN SCOPE

Ventilation not included

Energy label



ENERGY LABELLING REGULATION



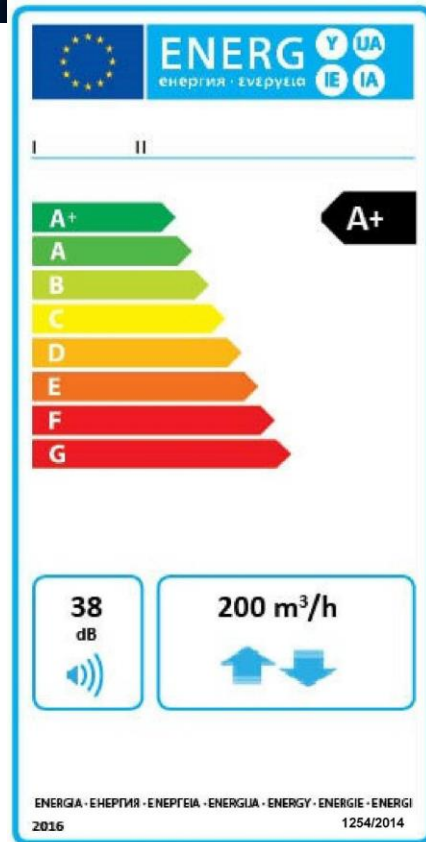
Icon on label if complies with technical requirement
Amendment to existing regulation

Washing machines	Green
Tumble dryers	Green
Electric storage water heaters	Green
HVAC cooling	Green
HVAC heating	Green
Refrigerating appliances	Green
Home batteries	Red
Electric vehicle chargers	Red
Commercial	
HVAC cooling	Red
HVAC heating	Red
Refrigeration	Green
Commercial & households	
Electric radiators	Red
Electric boilers (space/water)	Green

Smart ventilation in Ecodesign Lot 6 ?



HEALTH



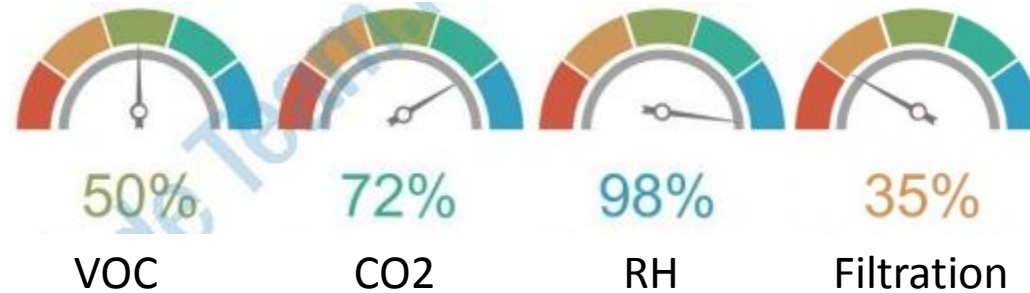
We believe



Smart Ventilation IAQ

THE FUTURE IS OURS TO CREATE.

EVIA IAQ label



IAQ label main targets

- Raise awareness of the impact of smart ventilation systems on IAQ
 - Help to move the market to efficient solutions (sensors, filtration, etc ...)
 - Assert the main purpose of ventilation system -> improving IAQ
- Complement energy aspects (energy labelling)
 - Introduce efficiency of ventilation system on IAQ in parallel to their energy efficiency.
- Propose a European common method for all type of mechanical ventilation systems existing in Europe
- Label has to be clear and simple to understand by the general public

Scientific partners



taskforce



Van Holsteijn en Kemna BV (VHK)
Elektronicaweg 14
2628 XG Delft
The Netherlands
www.vhk.nl

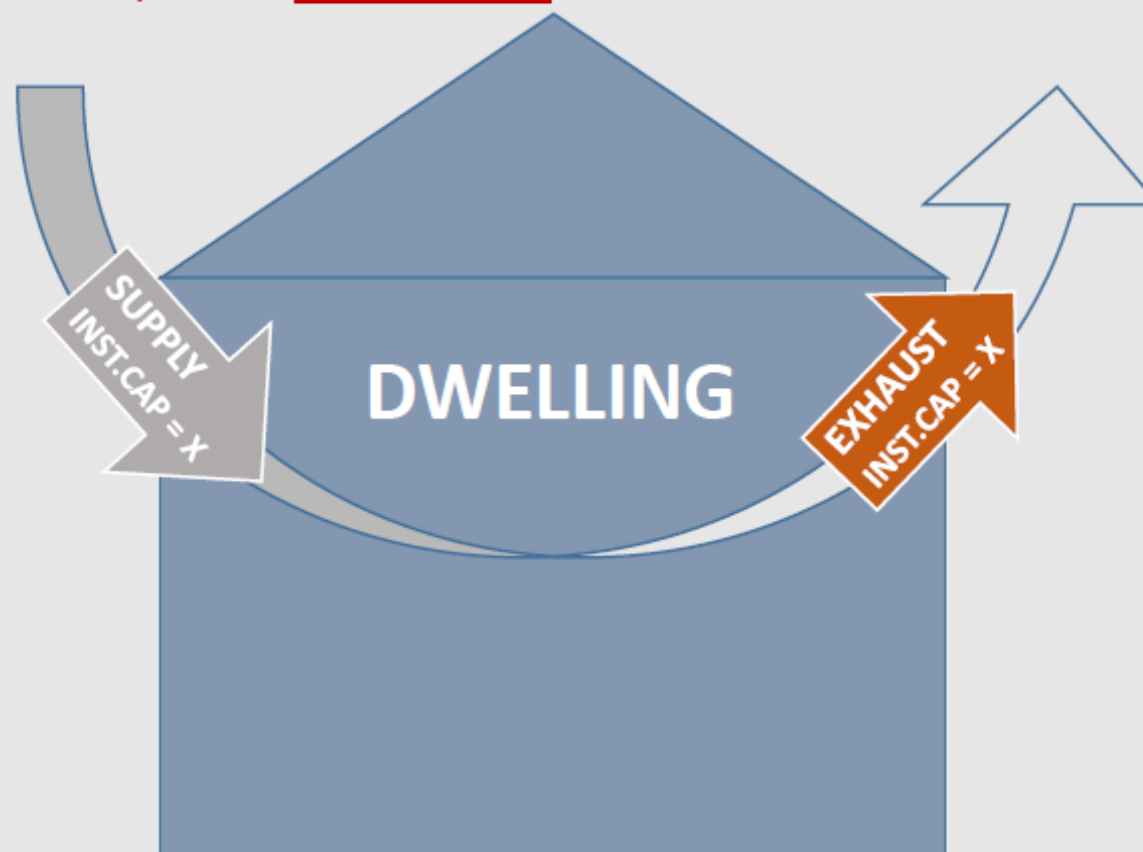


Department of Architecture and Urban Planning
Jozef Plateastraat 22
9000 Gent
Belgium
www.ugent.be

instead of

PRESCRIPTIVE METHOD:

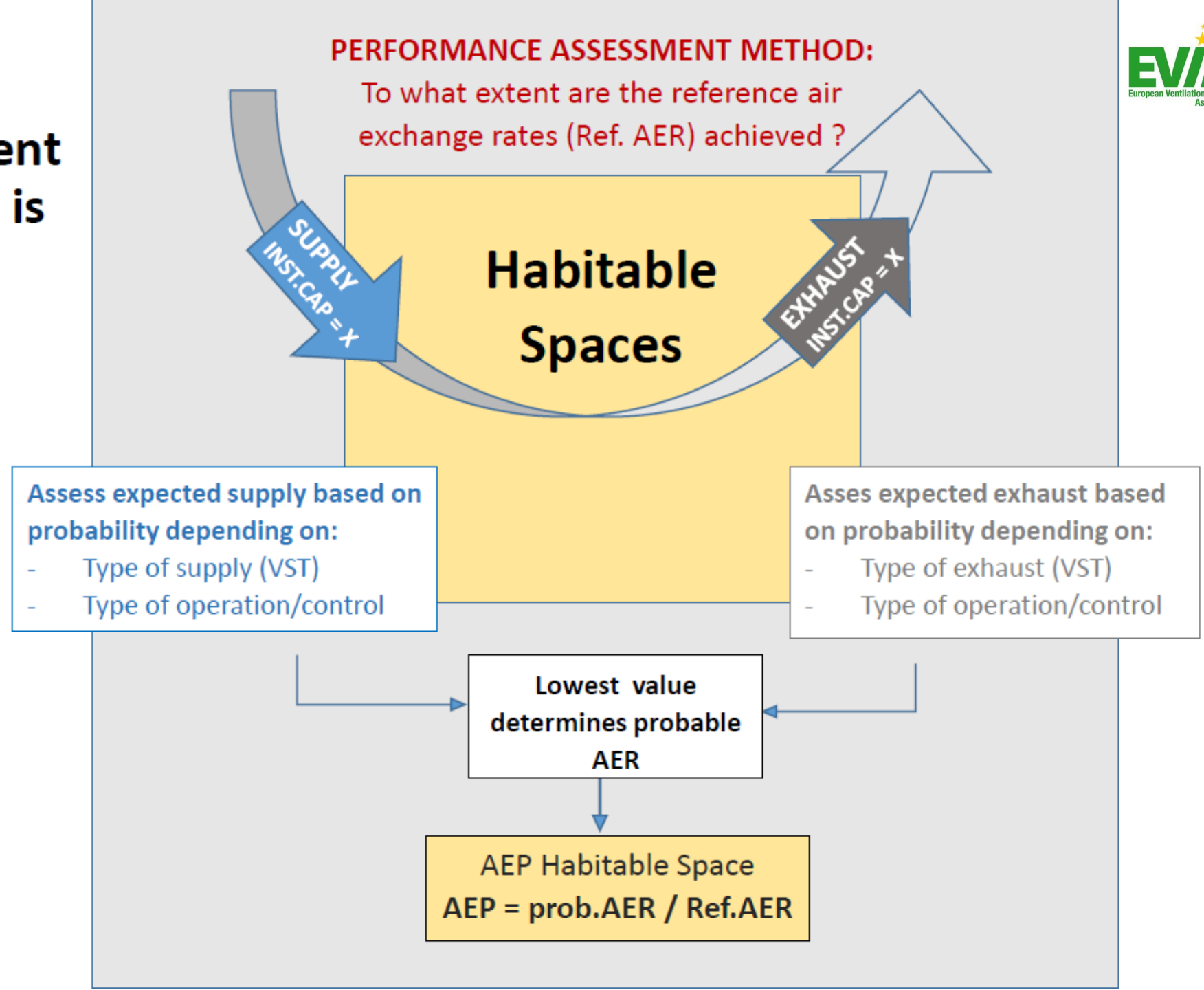
Code compliant Air Exchange Provisions and Capacities are installed in Habitable and Wet Rooms



AN ADEQUATE AIR EXCHANGE PERFORMANCE IS ASSUMED

Evidence is found in measuring the AER over the building

.....an additional performance assessment method on room level is proposed.....



Proposal voluntary IAQ label

Ventilation performance system *X*

@ installed capacity of 1.0 [l/s/m²] for habitable spaces



But it does not stop there...



Ventilation system

- Demand controlled
- IAQ sensor based
 - Data online



Installer

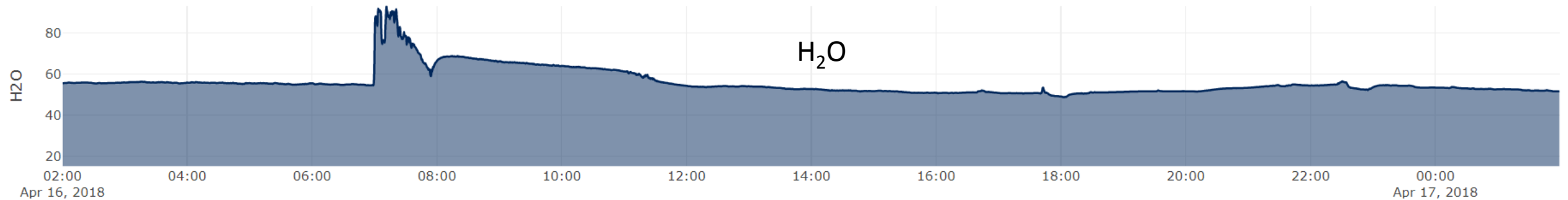
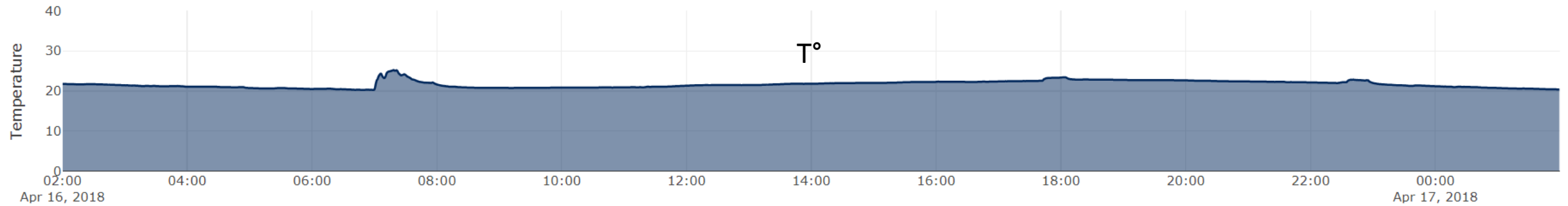
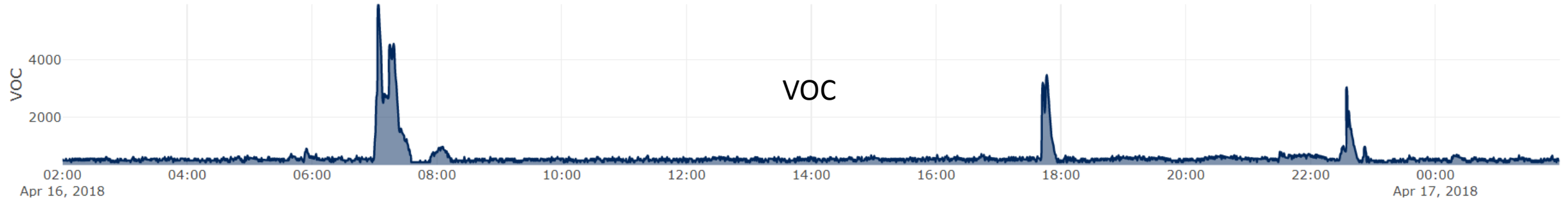
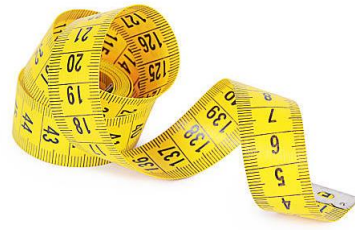
- Status
- Maintenance



User

- Feedback on IAQ
- Increase awareness

To measure is to know



Dare to Dream



(R)evolution is coming...

