



Vision 360

Monitor atmospheric emissions

Control their impact on the environment

The solution designed by operators and air quality experts

Public health



Odour nuisance



Greenhouse gas emissions



Connected sensors



A complete and innovative solution



A single partner for design, deployment and maintenance



Expert support for data analysis and action plans

≡ Air quality measurement at and around your site



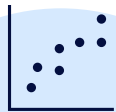
Continuous data collection and modeling 24/7



Objective measurement
of air pollutants
and odour
nuisances



Configurable alerts
to prevent or
detect threshold
exceedances



Historical
record of
measured data
and modeling



≡ Facilitated relationships with stakeholders



**Reliable data
for constructive
dialogue**



**Real-time and
forecast
modeling
of environmental
impact**



**Indicators for
communication**



**Anticipation of
potential
nuisances and
notification of
stakeholders**



**Registration of
complaints
received from *local*
residents
timestamp,
location,
*characteristic***



≡ Experts to support you in the long term

Assistance in the analysis and interpretation of captured data

Assistance in defining the reduction plan of air pollutants

A single point of contact for sensor installation, maintenance and expert support



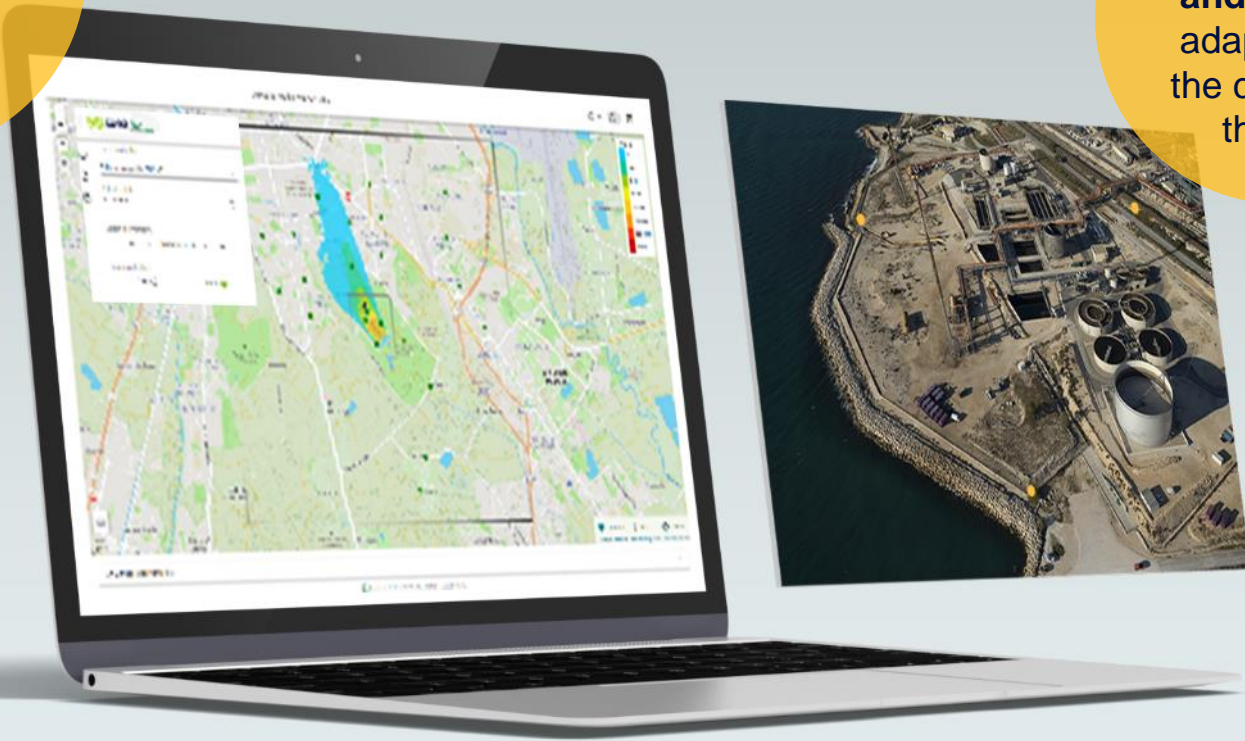
≡ Solution adapted to the specificities of each site

Targeting locations
to be monitored

Definition of pollutants
to be monitored
with the site
operator

Visualizations and reports
adaptable to
the context of
the site

Define of functionalities
depending on
your needs



≡ Intuitive interface for operators



Web interface
designed for
operators



Easy to use



Automatic alerts
if defined thresholds are
exceeded



Graphical rendering
historical emissions



Map rendering
plume modelling of
pollutants and odour

☰ Secure SaaS solution



Highly secure
data hosting



Savings
compared to an
on-premise
solution



Guaranteed
software
maintenance

≡ A solution that can be turnkey or custom



Site diagnosis

Study to determine the number, type and optimal location of sensors



Sensor deployment

Installation and parameterization of sensors



Platform configuration

Configuration and customization of the solution



Training

Training in the tool utilization and data interpretation



Follow-up and support

Technical support, maintenance of the sensor network and expert intervention on request

Real-time monitoring of WWTP odour impacts

Large station
950,000 population equivalent
source of odour nuisance



SOLUTION



48 Micro-sensors

H₂S/CH₃S, COV et NH₃

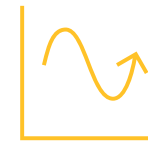
34 for ambient
air monitoring

14 specific to inlet and
outlet measurements of
deodorization



1 weather station

for a fine mesh follow-up
of the site



The Vision360 platform

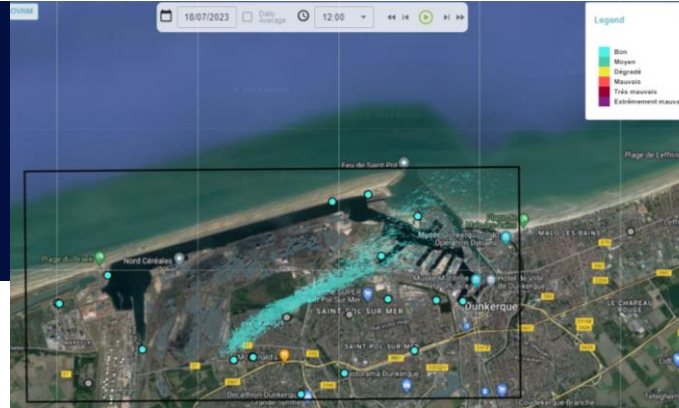
for real-time monitoring and
analysis of pollution sources and
their dispersion

BENEFICES

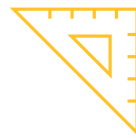
- + Real-time monitoring of odour impact on local residents
- + More responsiveness with built-in alerts
- + Simulations and proposals to reduce nuisance
- + Improvement of the station's environmental footprint

Innovative monitoring of the air quality of an industrial territory

High resolution spatio-temporal air tracking demonstrator



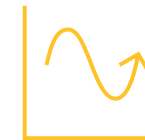
SOLUTION



Light instrumentation
easily deployable



20 Micro-sensors
complementary to
3 Atmo stations



The Vision360 platform
for real-time monitoring and
analysis, predictive and a
posteriori of types of pollution,
their concentration and
dispersion

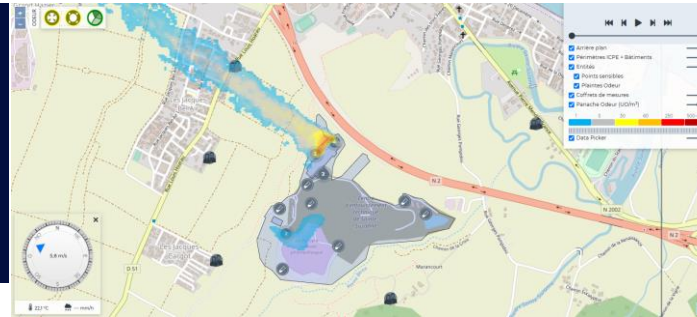
BENEFICES

- + **Industrial plume maps** with high spatial and temporal resolution
- + In case of pollution, quantification of **the impact** on the environment in relation to **regulatory values**
- + **Alerts in case of planned threshold exceedances**



Odour tracking at a landfill

Real-time monitoring of the site's odour nuisance



SOLUTION



1 weather station

for a fine mesh follow-up of the site

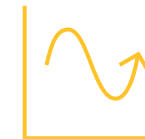


50 Micro-sensors

H₂S/CH₃S, COV et NH₃

48 for ambient air monitoring

2 specific to deodorization output measurements



The Vision360 platform

for real-time monitoring and analysis of pollution sources and their dispersion

BENEFICES

- + Real-time monitoring of odour impact for local residents
- + Monitoring of gaseous discharges from the site for optimized operation
- + Better responsiveness with alerts
- + Decision support to reduce nuisance

Monitoring of discharges from an incineration in dense urban areas

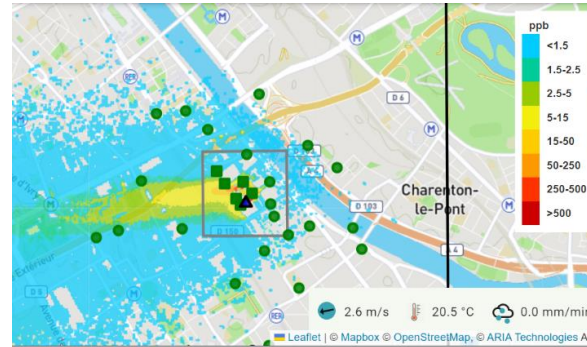
Monitoring of discharges during the transformation of the plant, a project contested by local residents

SOLUTION



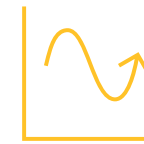
18 Micro-sensors

H₂S/CH₃S, COV et NH₃ at the entrance to the site, in the bottom ash area and in the loading area



1 weather station

for a fine mesh follow-up of the site



The Vision360 platform

for real-time monitoring and analysis of pollution sources and their dispersion

BENEFICES

- + Monitoring the evolution of odors during the transformation of the site
- + Fine modeling including buildings
- + Analysis and understanding of residents' complaints about odours

Tracking wastewater treatment plant discharges against regulatory requirements

Very large station
1,250,000 eq. inhabitants
Regulatory threshold: 300 OU_E/m^3



SOLUTION



4 Electronic noses

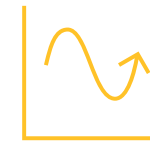
3 for ambient air monitoring

1 specific at the deodorization output



1 Weather station

for a fine-grained follow-up of the site



The Vision360 Platform
for real-time monitoring and analysis of pollution sources and their dispersion

BENEFICES

- + Real-time monitoring of odour impact in accordance with customer and regulatory requirements
- + More responsiveness with built-in alerts
- + Automatic reporting of reports related to regulatory requirements

Forecast of odour impacts of a wastewater treatment plant

Small station
90,000 population equivalent
source of odour nuisance



SOLUTION



1 IOMS

Odor from the main stack

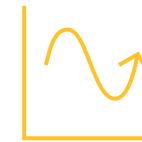


Standard time profile
for other fugitive emissions



Meteo forecast

3 days wind **profile**:
today, tomorrow, after tomorrow



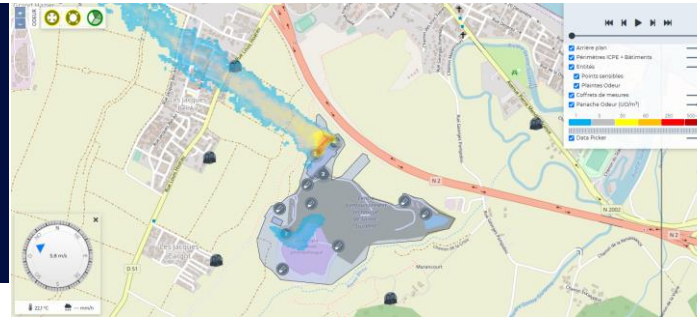
The Vision360 platform
for forecast analysis of pollution sources and their dispersion

BENEFICES

- + Forecast of odour impact on local residents
- + Very efficient for low budget
- + 5 years of data storage
- + Anticipation of potential criticalities

Monitoring of air quality and noise in port areas

Real-time monitoring of potential nuisances (pollutants and noise) on several ports



SOLUTION



1 Weather station

for accurate weather tracking

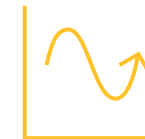


150 Micro Sensors

Gaseous discharges:
SO₂, NO₂, CO, O₃, NO

Microparticles:
PM₁₀ et PM_{2,5}

Noise Tracking



The Vision360 Platform

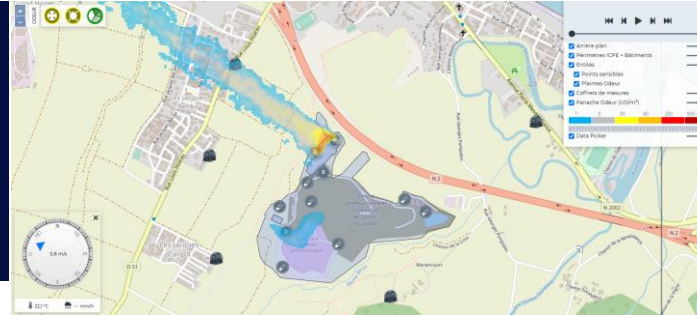
for real-time monitoring of potential sources of nuisance (pollution and noise), identification of their origin and modelling of their dispersion

BENEFICES

- + Real-time monitoring of impacts (pollution and noise) for local residents
- + Improved responsiveness with alerts
- + Decision support to reduce nuisance
- + Integration of Vision360 dashboards into the port authority's website

Real-time monitoring of the air quality of an industrial site

Petrochemical site in the immediate vicinity of a city center



SOLUTION



Micro-sensor array

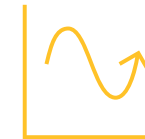
Gaseous discharges:
SO₂, NO₂, CO, O₃, NO

Microparticles:
PM₁₀ et PM_{2,5}



1 Weather station

for accurate weather tracking



The Vision360 Platform

for real-time monitoring of air emissions, identification of their origin and modelling of their dispersion

BENEFICES

- + Real-time monitoring of impacts on local residents and the environment
- + Alerts when the expected threshold is exceeded
- + Decision support to reduce nuisance
- + Improvement of the site's environmental footprint



Vision 360

The tailor-made solution
to control the impact on your environment

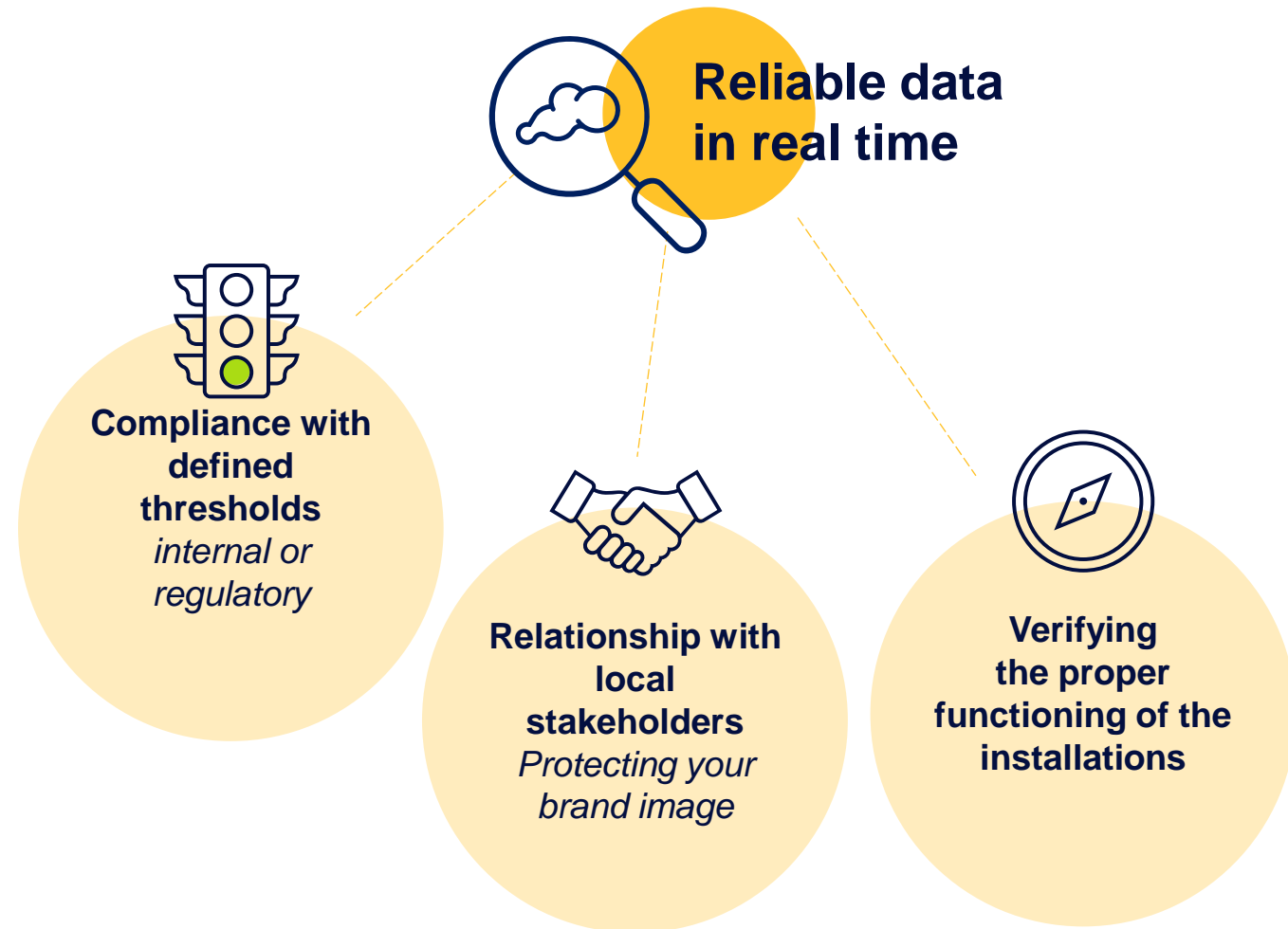


CREATING CYCLES. FOR LIFE.

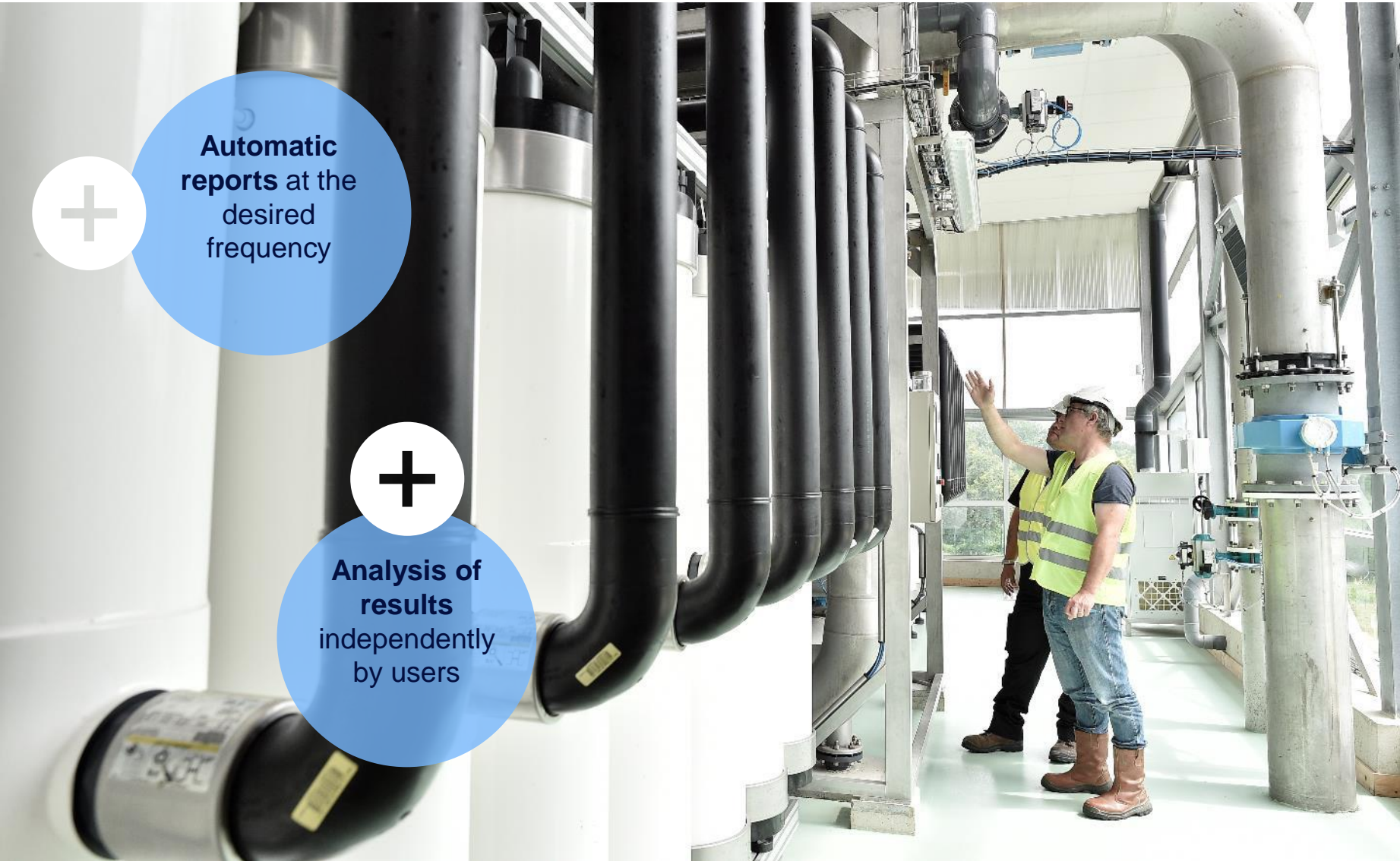
**Créer des cycles. Pour la vie.*

[suez.com](https://www.suez.com)

≡ Why monitor air pollutant emissions at your site ?



☰ Quickly actionable data, in-depth analytics



Automatic reports at the desired frequency



Analysis of results independently by users

ON REQUEST



Expert support for diagnostics and definition of action plans