

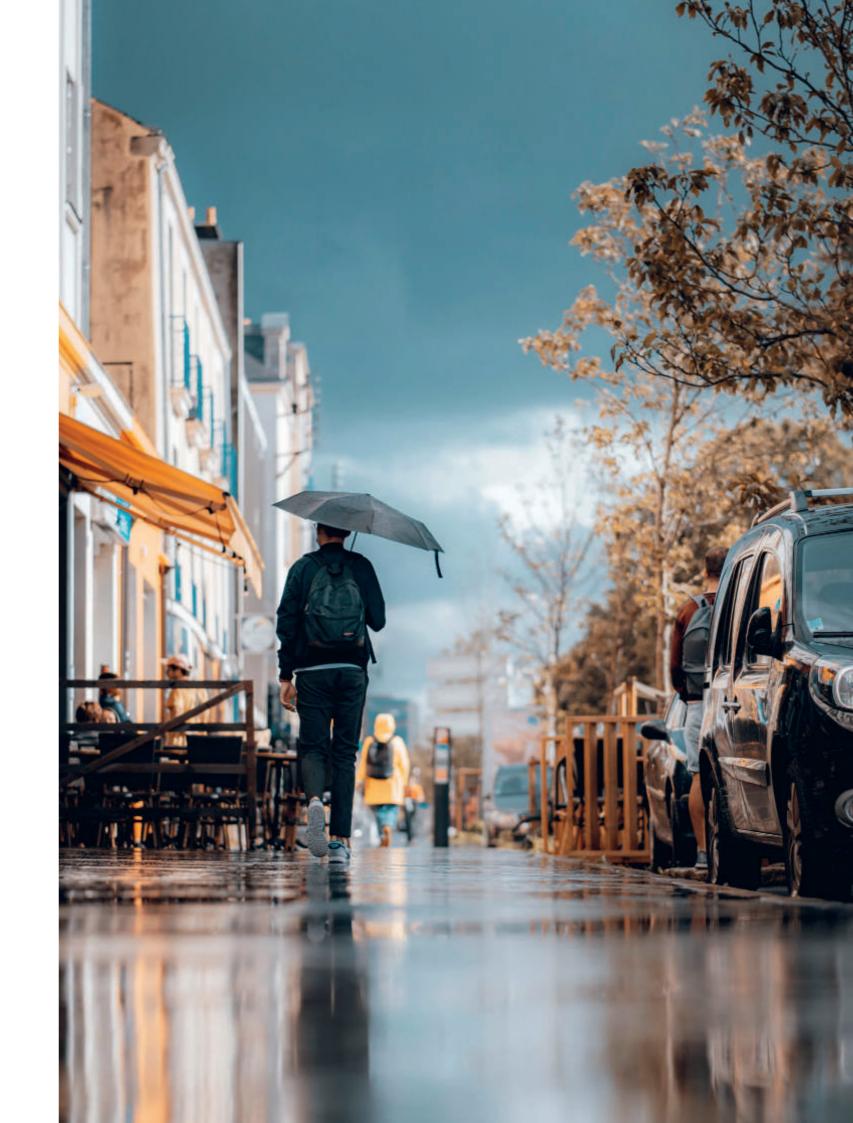




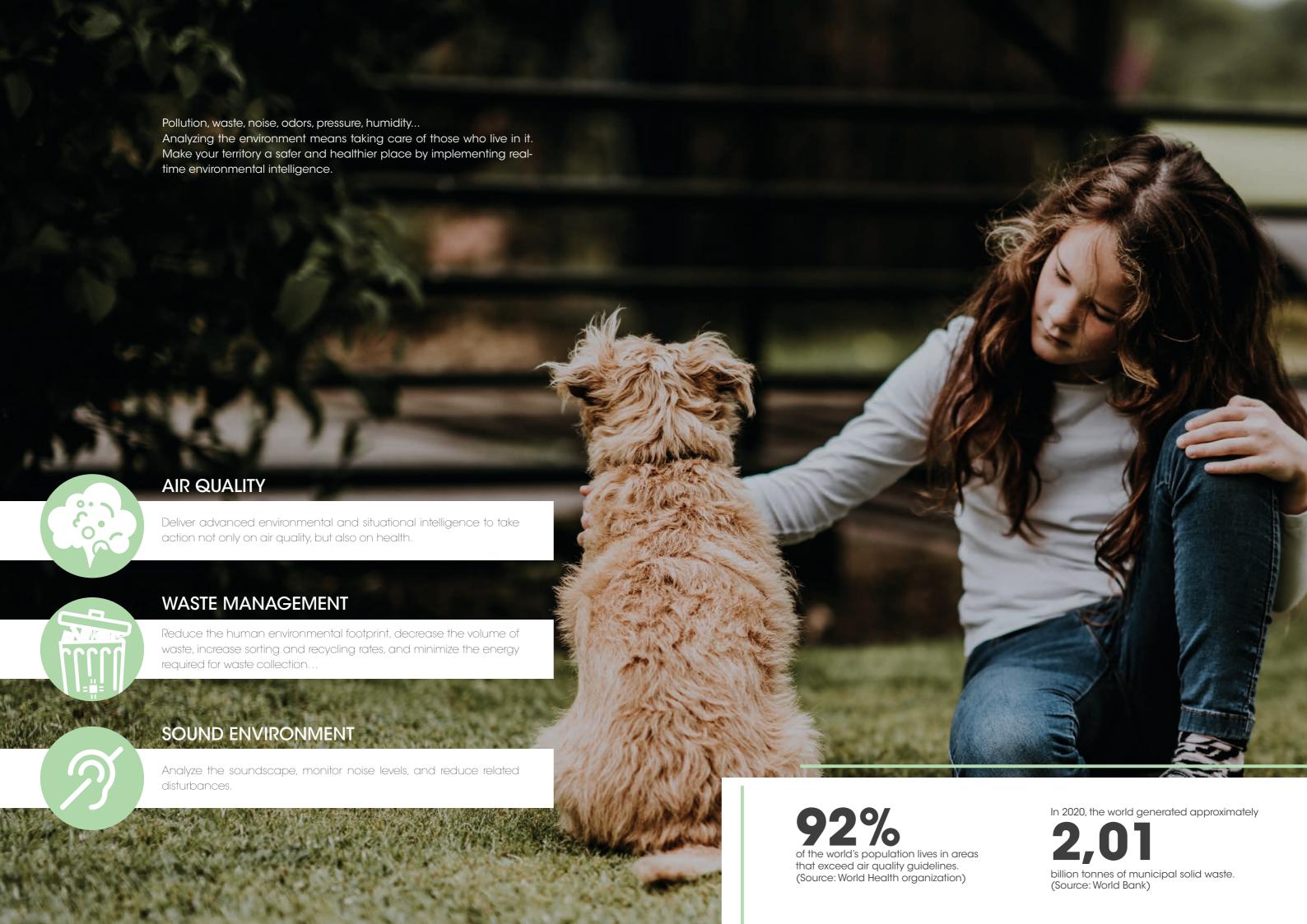
OT SEV®

O2
PLATFORM

03 OFFERING







ECOSYSTEM

The SEV® ecosystem is based on a deep conviction: Sector objectives can only be fully achieved if all stakeholders work together, pooling their knowledge and resources to ensure the success of specific projects. It is with this spirit of collaboration and commitment to sustainability that we are building our business.

We are committed to constantly expanding our network of partners because we firmly believe that diversity of skills and perspectives is essential for innovating and addressing the challenges of our time. When we choose our partners, we do so with a constant focus on respecting our sustainability commitments.

A key element of our ecosystem is the selection of our sensors. These connected objects are the fundamental instruments of our activity, and we ensure that they meet the highest standards in terms of quality, performance, and durability. We also assess their compliance with the challenges of an innovative, evolving, and responsible territory. This means they are chosen to adapt to the changing needs of our environment while minimizing their impact on the planet.

Therefore, the SEV® ecosystem is based on collaboration, sustainability, quality, and safety so that our work benefits our company, our partners, and the planet.

Interoperability is at the heart of our platform. Our approach is based on the use of current web standards, which allow us to natively integrate a variety of APIs (Application Programming Interfaces), making our platform interoperable with other systems.

To ensure this interoperability, our research and development team constantly monitors the evolution of communication standards. The architecture of the SEVE Connect Platform is based on the creation of data models (templates), facilitating their constant retrieval. Data is always accessible, either in real-time through automatic periodic extractions or for use in third-party applications.

We strive to respect the data ownership of the client. Subsequently, our platform is open thanks to its Rest API, which allows data transfer to Open Data platforms and integration with third-party tools such as GIS, CMMS, and monitoring systems (hypervisor). Additionally, the application is also completely open, with dedicated connectors and the possibility of creating custom connectors. This enables robust integrations with a wide range of hardware, connectivity protocols, and third-party applications.

INTEROPERABILITY

The SEV® Connect platform is designed to be interoperable, to ensure that data and information can be shared, retrieved and used fluidly with other systems, thereby reinforcing the flexibility and utility of our solution.





CYBERSECURITY

We implement a **«security by design»** approach to ensure optimal security from solution design to operational maintenance.

We continually reinforce our solution security by imposing drastic measures in terms of:

- architecture
- updates
- authentication
- firewall
- data stream encryption
- stored data encryption
- and more

Weekly audits provide recommendations in relation to the latest criteria applied for certification:

- · ISO 27001
- PCI DSS 3.2.1: the global data security standard used by the banking industry to protect payment systems data.
- SOC TSP: System and Organisation Control > Trust Service Principles





COMPLEMENTARY BRANDS

Close to you and accessible, our human-sized team accompanies you through all stages of your project: from information to awareness, from study to implementation, from training to maintenance and optimization.

Our story is one of passionate entrepreneurial families, and it continues without ever losing sight of the essential values upon which our companies were founded.

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For a bright and sustainable territories

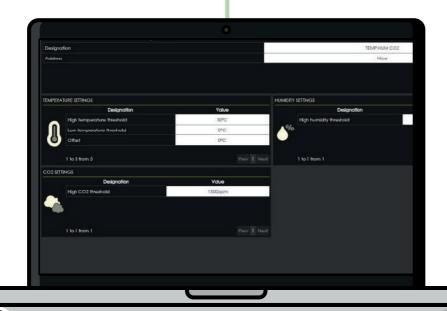
Groupe Ragni : connected and solar public lighting, connected solutions.



AIR QUALITY

Our platform offers a comprehensive smart technology solution that monitors environmental and health-related factors, identifies sources of health and safety risks, and addresses them through programmable actions.





Pollutant detection

Pollutant detection enables the monitoring of harmful substances in the air, helping to protect public health and reduce environmental impact.

Particle and allergen quantification

Quantifying airborne particles and allergens helps identify and control sources of particulate pollution, improving the quality of life for individuals with allergies and respiratory conditions.

Weather data

Weather data is essential for understanding and forecasting air quality variations, allowing for preventive actions and effective management of pollution episodes.

Health risk detection

Detecting health risks related to air quality enables swift action to protect the population from the harmful effects of air pollution.

Odor level monitoring

Monitoring odor levels helps identify sources of olfactory nuisances, thereby enhancing residents' comfort and quality of life.

Poller

Tracking pollen levels in the air provides alerts and guidance for allergy sufferers, reducing health impacts and improving overall well-being.

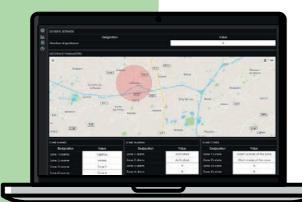




MANAGEMENT

With our advanced management features, collect data, organize pickups, adapt management methods or routes, and save costs.





Fill level and alerts

Monitoring fill levels helps prevent overflows while improving the efficiency of waste collection.

Location

Accurate localization of containers and collection points facilitates logistical management and enables optimal planning of collection operations.

Route optimization

Optimizing collection routes reduces operational costs, saves fuel, and lowers greenhouse gas emissions, all while ensuring more efficient service.

Detection of bulky items and illegal dumping

Automatic detection of bulky waste and illegal dumping enables rapid response, maintaining the cleanliness and aesthetics of public spaces.

Organic waste management

Connected management of organic waste improves sorting and recovery of organic materials, contributing to reducing landfill waste and supporting compost or biogas production.



SOUND ENVIRONMENT

By integrating these features, our platform helps analyze the sound environment, particularly for residents near roads, railways, airports, ports, and certain factories or industrial zones.

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Noise level monitoring

Measure and analyze sources of noise pollution to identify them and take appropriate action. Over 15,000 sounds detected and evaluated using our connected solutions.

Bell tower

Simplify the management of your buildings by programming your bell tower equipment and optimizing their maintenance and operation.



Communication— —TECHNOLOGIES—

WHAT IS AN IOT NETWORK?

The IoT network enables Internet connectivity and data retrieval. A variety of communication protocols are available on the market but they do not all share the same characteristics. Selecting the most appropriate communication network can become a real headache without suitable advice.

MANY APPLICATIONS ARE ASSISTED BY IOT CONNECTIVITY



Smart lighting

Traditional or solar lighting, cabinet-controlled or by individual light point, etc.



Water

Network management, watering, monitoring water courses



Mobility

Parking, traffic levels



Environment

Air quality, waste management, etc.



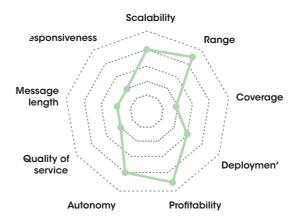
Energy

Distribution network management, recharging stations, photovoltaic, etc.



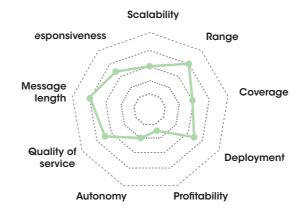
Buildings

Air quality, temperature, leak detection, lighting, building management, etc.



LoRaWAN®

4G



OCPP, RJ45, Fibre

Other Available Technologies



WHAT CRITERIA FOR SELECTING AN IOT NETWORK?

If you have a low energy budget, if you need to collect small amounts of data, and a low frequency of retrieval (a few measurements per day) is sufficient, mesh connectivity such as LoRa or DigiMesh is the most appropriate solution.

If your application requires frequent data transmissions and a high data throughput rate (logistics tracking, Industry 4.0, connected healthcare, etc.), cellular connectivity is better suited. The main choices are between LTE-M NbIoT or a 4G network.

PRODUCT SELECTION

SEV® products are carefully selected to meet the most demanding standards in terms of quality, performance, and durability. We evaluate their suitability for the challenges of an innovative, evolving, and responsible territory. Our wide range of products is designed to adapt to a variety of projects.









SERVICES

Our packages, simple and flexible, evolve according to your needs, offering you comprehensive support ranging from technical support to after-sales IT service, through energy recovery or intervention management.

Independence +

Start-up +

INDEPENDENCE

DEVELOPMENT

Energy recovery Advice Half-yearly monitoring **OPTIMISATION**

Development +

Response management Advice Visit from a technician

DEVELOPMENT OPTIMISATION Reporting of sensors on the computer server Initial network setup Presence of a SEV® technician during installation Access to the SEV® Connect platform Functional guarantee of the communication network Detection and reporting of incidents in the communication network Incident alert to the client Sending information to our after-sales IT service Resolution and intervention report Email SEV® technical support telephone Analysis and sending of consumption report Quarterly Monthly Monthly Follow-up appointment Annual Half-yearly Quarterly Detection and reporting of physical incidents in the network Tips on optimal irrigation profile configurations Resource valuation Adaptation of sensor parameters according to customer preferences Intervention management with the client's technical team Intervention of a SEV® technician Operational optimization

virtual CONNECTED PROJECT





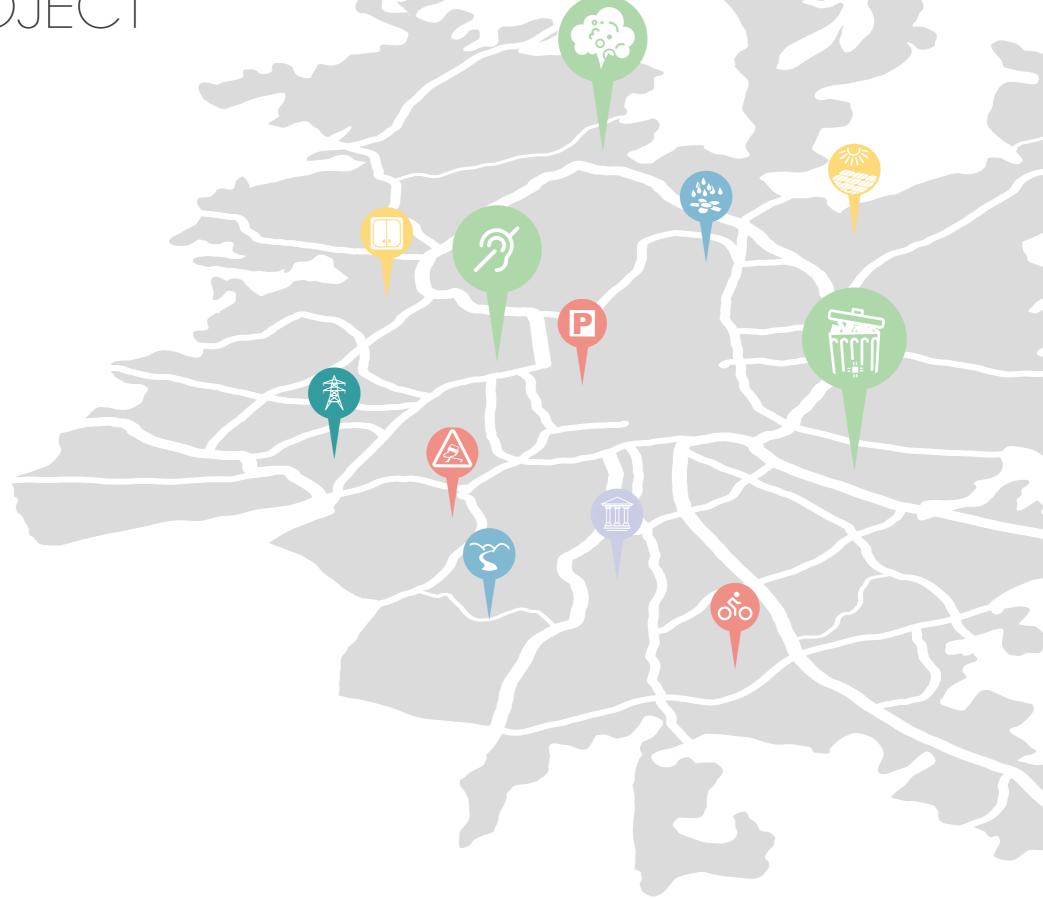


3 sound sensors
1 bell tower module

· 4G connectivity

· LoRaWAN® network







Environment

A simple and intuitive **PLATFORM**

to control your smart regions and use data in real time.

SENSORS

for each use case, whatever the communication protocol.

A range of **SERVICES**

packages to build and deploy your infrastructure according to your needs



