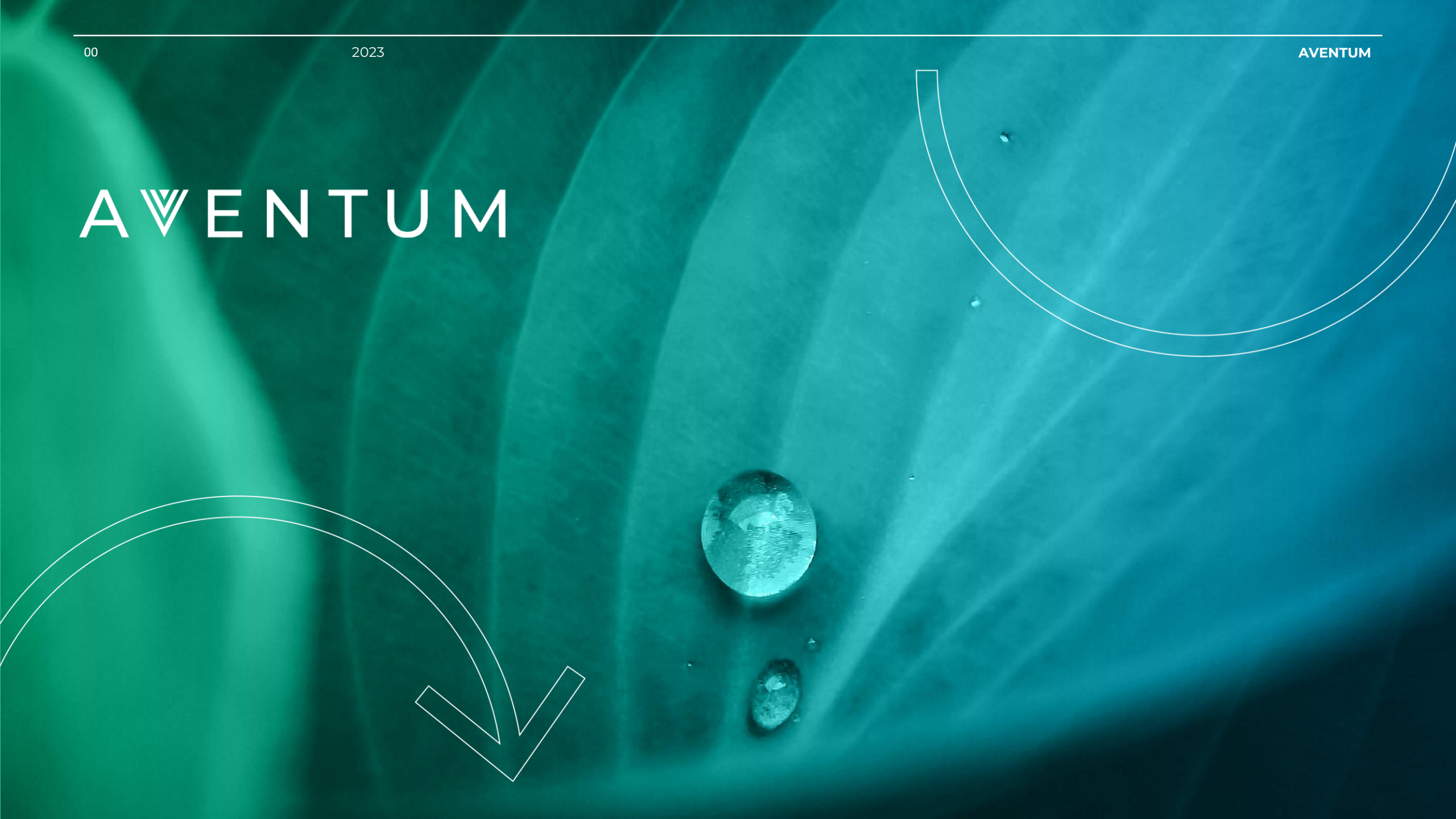


AVENTUM



Business areas

We are a technology company, with our own engineering support and environmental consulting, specialized in connectivity and in the treatment of all types of waste. We are located in the Madrid autonomous region, Andalusia and Extremadura, with more than 20 years' experience, both nationally and internationally.

Beyond the waste

We provide tailor-made solutions in waste management of all kinds, thanks to the design and commercialization of cutting-edge technologies based on the circular economy.

Conectum

We focus on connectivity projects, deployment of sensors, management of services on public roads, Industry 4.0 and digital transformation in different fields. We bring high quality INTERNET to isolated areas without fiber optic coverage or 4G and 5G broadband. For all this we have developed Conectum.

Beyond the waste

An opportunity exists behind every consignment of waste. For this reason, our Beyond the waste division focuses on three different technologies that re-generate, re-solve and re-value any type of waste in a sustainable, safe and efficient way.

PLASMA CONVERSION

SAFE AND IRREVERSIBLE DISPOSAL

All types of waste: RSU, hospital, dangerous, mineral waste, etc.

ENERGY GENERATION

+ 65% efficiency in the conversion, (twice the alternative technologies.)
Production of AA grade methanol and hydrogen.

REDUCTION OF CO2 EMISSIONS

Plasma conversion reduces CO2 emissions by 400%, compared to incineration – through both the process itself and by eliminating the transportation of waste.

MODULAR AND SCALABLE PLANTS

From 3 tons upwards.

BIOGAS AND BIOMETHANE

ORGANIC WASTE DISPOSAL

Transformation of substances of organic origin, both animal and vegetable, into Biogas.

BIOGAS GENERATES:

Electricity and thermal energy by means of cogeneration plants,, or biomethane after upgrading.

BIOMETHANE GENERATES:

Natural gas substitute
Fuel for vehicles

DIGESTATE

By-product of the process that is used as a fertilizer or soil improver.

SLUDGE TREATMENT

ELIMINATION OF BAD SMELLS AND NOISE Guarantees the total removal of smell and noise, even when located on top of the installation.

SLUDGE REDUCTION

The resulting sludge is reduced by between 50% and 80%.

REDUCTION OF CO2 EMISSIONS

Emissions into the atmosphere are reduced by avoiding transportation.

ECONOMICALLY VIABLE

The cost of purification is reduced by at least 50%; maintenance by 70%; and electricity by 30%.

LESS SPACE IN ANY LOCATION

Underground installation, 70% smaller than a traditional unit. The capacity of a plant can be increased by 300% without the need for additional space.

Analysis, engineering, manufacturing, management and maintenance of plants and facilities

What is Conectum®?

Excellence in connectivity for intelligent management and transmission of information and data is basic in today's society - both in rural areas and cities or industries.

In Aventum we have developed and patented Conectum®, a device that is installed on streetlights to deploy telecommunications networks and sensors, provide high-quality INTERNET in isolated areas without fiberoptic coverage or 4G or 5G broadband, enabling the deployment of Smart City applications.

Provides a unified new infrastructure that builds Smart City ecosystems. Conectum captures and processes the data from sensors and cameras, including the following advantages:

- Rapid, mass-scale, cheap deployment of telecommunication networks.
- Low cost, customized deployment of sensors and/or cameras on public roads
- Promotion of services such as healthcare, DTT, mobility, tourist information, cultural services, or the use of public services of special relevance in isolated rural areas or at a distance from population centers.



WIFI CONNECTION



WASTE COLLECTION



STREET CLEANING
SERVICES



ENVIRONMENTAL
SENSOR

AVENTUM