



PRESS RELEASE

Monday 12th of September 2022

Smart land management - CLS a partner of Martinique provides a tool to manage its agricultural lands

Today, an estimated 821 million people on Earth are undernourished.

The current agricultural system is under pressure from population growth and climate change. The climate is changing at an accelerated rate and the threat to food autonomy is growing. **So how can we limit the impact of global warming, adapt and become more resilient?**

CLS, a partner to Martinique, along with the company Cartophyl provides strategic land use data (vegetation, land use, agriculture, etc.) capable of identifying the agronomic potential of the island's parcels, taking into account environmental constraints and human activity. As part of a food resilience and territorial management approach, this data will be accessible via a platform, **Geomartinique**, which will enable users to predict:

- how agricultural plots could evolve and increase their yields or be used to grow other types of crops
- or how uncultivated plots could become so and which species could be recommended.

These data are strategic for an efficient, resilient and respectful management of the territories.

Martinique, located in the Lesser Antilles archipelago, has an area of 1,128 km² and a population of over 350,000. Agriculture, mainly bananas and sugar cane, is its main source of wealth (exports). The sector employs nearly 15,000 people on 3,000 farms and production represents approximately 246M€. According to the Ministry of Agriculture and Food Sovereignty, Martinique's agriculture only partially meets local demand: 77% of products are imported and local fruits and vegetables cover only 34% and 41% of needs, respectively.



While 21% of Martinique's surface is currently dedicated to agricultural land, this figure is declining and is likely to decrease further due to climate change.

The latest IPCC report predicts that climate change will lead to a decrease in yields and crop suitability, especially in tropical and semi-tropical regions.

But by acting today, we can ensure the future!

How can we fulfill such a mission?

The Martinique Department of Food, Agriculture and Forestry called on CLS, a specialist in land use data, a subsidiary of CNES and CNP, to assist in its efforts towards **food resilience**.

By combining land use data (OCS-GE, BD-Topo®, etc.) and technical data (irrigation, pedology, etc.), CLS and its partner Cartophyl have created an updated database capable of providing a map that identifies undeveloped land and details its agricultural potential, taking into account its immediate environment (accessibility, irrigation, etc.).

This database aims to:

- Guide decisions to promote and boost Martinique's agriculture,
- Ensure the preservation of agricultural land,
- Determine the development potential of certain forms of agriculture by analyzing the surrounding environment.



Testimony

Konrad ROLLAND, Head of Land and Hydrology Applications at CLS:

"We are delighted to be partnering with the Island of Martinique and to place more than 30 years of expertise in land management at the service of local authorities. Thanks to our data expertise (satellite, airborne, field, etc.) and the databases we have already built, we are proud to deliver the best of data to local managers who will now be able to improve the use of their territories and contribute to the food autonomy of this French Island so loved by the French."

A solution that can be replicated and adapted to other uses such as resilience to increasing temperatures.

This method could also be used to identify the agronomic potential of plots in other French territories as well as to help cities adapt to other climate change impacts such as heat islands within urban centers.

Using the same method applied in Martinique, CLS is proposing to identify the potential of "green spaces" in urban areas to lower surface and air temperatures and combining criteria such as public accessibility.

CLS is a global company and pioneer **provider of monitoring and surveillance solutions for the Earth**, created in 1986. We are subsidiary of the French Space Agency (CNES¹) and CNP², an investment firm.

Our mission is to **create innovative space-based solutions to understand and protect our planet and to manage its resources sustainably**.



CLS employs **900 people**, at our headquarters in Toulouse (France) and in **34 other sites** around the world.

The company works in **5 strategic markets**:



Sustainable fisheries management



Environmental monitoring



Maritime surveillance



Mobility



Energies and infrastructures

CLS processes data from **100,000 transponders** per month (such as drifting buoys, animal tags, VMS transponders, & LRIT tracking) and observes the oceans and inland waters (**more than 20 instruments** onboard satellites daily deliver information to CLS on the world's seas and oceans). In addition, we monitor land and sea activities by satellite (nearly **20,000 radar and optical images** and **several hundred drone flights** are processed each year). The CLS Group had revenue of nearly 153 million Euros in 2021.



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Committed to a sustainable planet, the company daily works for the Earth, from Space.

1 CNES

CNES (Centre National d'Études Spatiales) is the government agency responsible for shaping and implementing French space policy in Europe. It designs and puts satellites into orbit and invents the space systems of tomorrow; it promotes the emergence of new services useful in everyday life. Founded in 1961, CNES has developed major space projects, launchers, and satellites and is the industry's natural partner for promoting innovation. The agency has nearly 2,500 employees passionate about space and its infinite, innovative fields of application. They work in five areas: the Ariane project, science, observation, telecommunications, and defense. CNES is a major player in technological innovation, economic development, and France's industrial policy. It also forges scientific partnerships and is involved in many international cooperative endeavors. France, represented by CNES, is the main contributor to the European Space Agency (ESA). www.cnes.fr

2 CNP

CNP is an investment firm founded by Mr. Albert Frère and exclusively managed by the Frère family. CNP invests its permanent capital for control or joint-control of European industry leaders and acts as an active partner to drive sustainable value creation alongside the founders, management and families it associates with. Together with GBL, CNP is one of the 2 pillars of Groupe Frère that manages net assets of approximately € 5.5Bn.

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