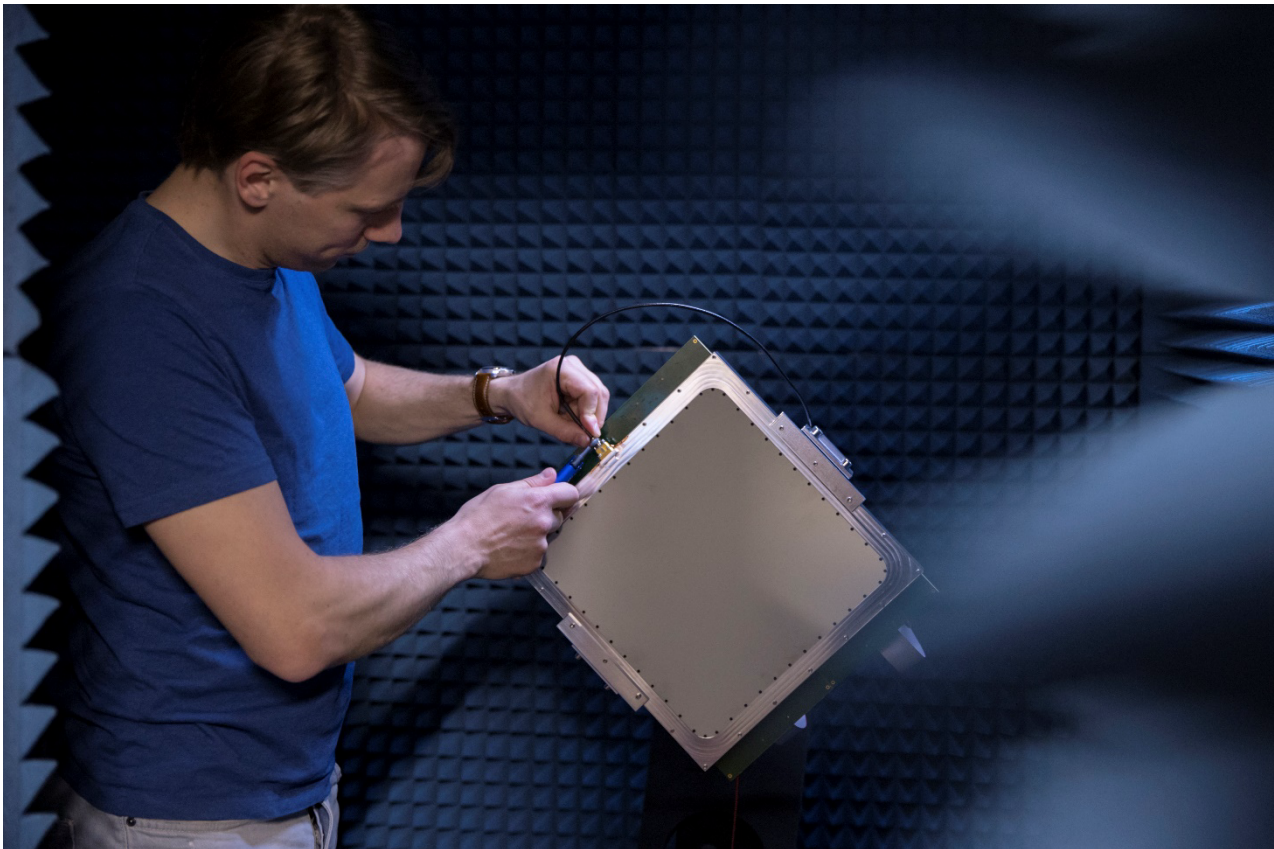


Greenerwave Press Release  
Paris, February 1, 2024

## Greenerwave raises 15 million euros to revolutionize the future of connectivity

*Born from the audacious vision of its two founders, researchers Geoffroy Lerosey and Mathias Fink, Greenerwave is poised to revolutionize connectivity with an ecological and economical solution.*



Greenerwave, the European leader in electromagnetic wave control technologies, today announced the closing of a 15 million euro fundraising from BPI fonds Innovation Défense, Safran Corporate Ventures, Intelsat, BNP and Plastic Omnium, assisted by Phil Dardier and Avolta's teams. The French deeptech, spin-off from the Institut Langevin and the CNRS, developed a breakthrough technology using reconfigurable intelligent surfaces (RIS) and algorithms to direct signal-carrying waves more effectively in real time. Better performing, less energy intensive and requiring fewer semiconductors, Greenerwave's technology directly addresses the crucial need to decarbonize the digital sector. This fundraising will enable the startup to accelerate the development of a technology set to profoundly transform numerous sectors in France and internationally: defense, space, automotive and telecommunications.

Greenerwave, a technology that will revolutionize the control of electromagnetic waves in many fields



The need for connectivity anytime, anywhere, is growing strongly, and critical decisions by companies, governments and organizations (military and non-governmental) are reliant on networks whose slightest interruption can cause security, financial and organizational damage.

Greenerwave addresses these crucial needs thanks to an agnostic, cheap and easily-to-integrate solution, without making any compromise on performance. Like a mirror whose surface changes, the French pioneer's antenna steers electromagnetic waves on demand and in real time while avoiding dispersion. It optimizes the transmission and quality of wireless signals in three major areas: telecoms and terrestrial and non-terrestrial connectivity (satellites), radar imagery and the Internet of Things (IoT).

*"With its deep roots in fundamental scientific research, our breakthrough technology will fuel innovation in several sectors, such as connectivity, autonomous vehicles, aerospace or defense", says Geoffroy Lerosey, co-founder and CEO of Greenerwave.*

### **From fundamental research to the sale of a 100% made-in-France product designed for Satcom**

A symbol of fundamental research capable of driving entrepreneurial projects, Greenerwave has developed a cutting-edge technology entirely designed and produced in France. This success has led to a first product: a flat antenna with electronic reconfiguration designed for the satellite communications market. More competitive and durable than existing satcom terminals, the antenna based on Greenerwave's RIS broadens the uses of satellite communications for new constellations or on-the-move utilizations, being more economical, lighter and less energy intensive.

Thanks to its material-light technology that requires few natural resources, Greenerwave contributes actively to technological and industrial sovereignty by reducing dependence on semiconductors.

This product will be available to pre-order at the end of 2024.

### **15 million euros to become a world leader in energy-efficient connectivity**

This 15-million-euro Series A fundraising follows an initial fundraising of 950,000 euros from the CNRS and business angels such as Xavier Niel in 2016. Today, major industrial investors have chosen to finance Greenerwave's development, including BPI fonds Innovation Défense, Safran Corporate Ventures, Intelsat, BNP and Plastic Omnium.

Thanks to this fundraising and its investors' market expertise and knowledge, Greenerwave intends to accelerate its growth and fulfil its ambition: become a world leader in energy efficient connectivity. This will notably result in a strengthening of the workforce, currently made up of 85 employees, including 50 engineers, through the development of a sales forces and an enlarging of the product range to meet the market's exponential expectations and needs.

*"If we have chosen to participate in the Greenerwave's adventure, it is primarily because it represents the success of a deeptech that has found a concrete application and developed a product that will now be able to penetrate very promising markets". [Lead Investor 1]*

« xxx. » [Lead Investor 2]

*"This fundraising is a vote of confidence in our unique technology and our talented team, but it also reflects awareness of the urgency and magnitude of the challenges facing our industry. It gives us the means to accelerate our industrialization and our marketing", says Geoffroy Lerosey.*

### **How it works**

Greenerwave designs metasurfaces comprising elements that "shape" electromagnetic, enabling directional beams to be generated and controlled. These metasurfaces consist of a group of elements of centimetric size called pixels that act as micromirrors. Each pixel can modify the sign of the reflected wave. The interactions between pixels and microwaves are managed by algorithms derived from the world of physics that direct waves after their reflection on the surface. Passive, low cost and easy to manufacture,



this technology aims to improve the use of electromagnetic waves while drastically reducing the antennae energy consumption and production costs.

### **About Greenerwave**

Greenerwave is an industrial deeptech founded in 2016 by researchers Geoffroy Lerosey and Mathias Fink, spin-off from the Langevin Institute, dependent on CNRS and ESPCI-PSL (École supérieure de physique et de chimie industrielles de Paris). Specializing in the control and orientation of electromagnetic waves, Greenerwave develops, in France, a revolutionary technology that drastically improves the energy efficiency of equipment, making it more economical, more environmentally-friendly and less dependent on semi-conductors. This disruptive technology is applicable to a wide range of sectors, from the automotive industry to satellite communications and the Internet of Things.

To learn more, please visit [www.greenerwave.com](http://www.greenerwave.com).

### **About Safran Corporate Ventures**

Investors 1

### **About BPI Fonds Innovation Défense**

Investors 2

### **About Plastic Omnium**

Investors 3

### **About Intelsat**

Investors 4

### **About BNP Paribas**

Investors 5

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