***GREEN DEAL CALL***

* **Targeted Topic**
* **Topic Reference: Green Deal**
* **Deadline: Jan 2021**
* **Project Type (RIA / IA / CSA) : RIA**
* **Expected Duration: 3-5 years**
* **Expected Budget: 20M€**

**Topic objectives short description:**

**Low Power Wide Area Network for wildlife conservation**

When facing nearly every major conservation problem from human-wildlife conflict to climate change, monitoring biodiversity and the movement of species is essential to our understanding of the ecosystems we’re protecting.

Building on its core radiofrequency engineering background, XeriusTracking developed miniaturised devices using GPS, Argos, UHF, GSM and Bluetooth technologies.

Our main solution, BioLoc, comprises miniaturised GPS/UHF and Argos devices which can communicate using both Low Power Wide Area Networks (LPWAN) technology and a direct-to-satellite data link (Argos). It is a private and secure LPWAN network using an european certified frequency band.

The use of geofencing to switch to an Argos satellite network when ground-based UHF communication networks are not within reach offers a hybrid Space-LPWAN solution, combining efficiency with global connectivity. The combination of UHF devices communicating with Argos technology is cutting-edge, mirroring state-of-the-art ‘IoT Sat’ systems which aim to provide Argos and UHF ultra-low power communication anywhere on earth. XeriusTracking has developed super-lightweight BioLoc transmitters which can be collared or back-packed on species.

This system provide data for answering to human conflict with wildlife, habitat conservation, climate change,...

We are looking for partner to build a wide European project on biodiversity protection regarding human urbanization.

**Partner Offer:**

* **Partner type (SME, Large Company, Research Centre…):**

Research Centre, NGO, Museum & National parks : to give their knowledge on animals behaviour, ecology and environmental economics

Industry : for analysing ecosystem as carbon stocks and to provide solutions for water purification, health & oxygen production,…

* **Web site:** [**www.xeriustracking.fr**](http://www.xeriustracking.fr)

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* **Offered R&D/technical competences with regards to the call expectations:**

Since 1999, Xerius has established a strong reputation as a trusted company in the defense, aerospace and industrial sectors.

Building on its core radiofrequency engineering background, the division XeriusTracking was created in 2016.

Its goal is to support scientists, organisations and governments in their effort to monitor and protect biodiversity by providing them state-of-art technologies.

We develops miniaturised and hybrid tags using GPS, Argos, VHF, UHF & GSM technologies.

Each technical solution is customised and engineered to a specific field need.