

LEAF SPACE

> Products

Ground Facilities and GSE's / Space Systems

> Processes

Design / Drafting / Miscellaneous / Modelling & Simulation /
Operation & Logistics / Services / SW/HW development

> More about LEAF SPACE

LEAF SPACE's mission is to simplify the access to space to microsatellites operators.

The company develops services and products to support the use of microsatellites for commercial, scientific and exploratory purposes, by tackling the unmet needs of this sector.

LEAF SPACE is currently focused on the development of the Leaf Line, through an innovative infrastructure-as-a-service ground stations network dedicated to microsatellites. LEAF SPACE solution enables the full exploitation of data coming from microsatellite, thanks to a significant cost reduction and performance increase of ground segment operations. The service is on its commercialization phase and ready for operations.

The Leaf Line network currently counts 4 operative ground stations in Europe (Italy, Lithuania, Spain and Ireland). Within 2018, LEAF SPACE will implement 4 additional ground stations in Brazil, Canada, Australia and New Zealand. At regime, Leaf Line will count on 20 ground stations, implemented in 5 continents, fully automated and remotely controlled.

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The service employs ground stations capable of operating in VHF, UHF, S-band and X-band. All the ground stations can perform payload data downlink and TT&C operations. A cloud-based software infrastructure is the backbone of the service, managing and optimizing requests from many different users.

To switch between frequencies, modulations and protocols, each antenna is equipped with a Software Defined Radio (SDR), able to grant the wider possible compatibility and flexibility.

The Leaf Line service allows up to 10-fold cost reduction to satellites operators for ground segment operations and ensures the possibility to download tens of Terabytes of data per day, with latency up to few minutes. Furthermore, the infrastructure-as-a-service philosophy allows extremely simplified operations for satellite communication. Leaf Line can be used for standard operations but also for LEOP, back-up, boost, disposal and anomaly resolution operations.

In the ambit of the Leaf Line service, LEAF SPACE offers also dedicated consultancy services regarding ground stations design and manufacturing, integration between satellite and ground station, mission operations, etc.

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