

## **ALTRANS ENERGY wins the General Public prize of the 2022 "Simulation and Digital Technologies" Award, organized by French media L'Usine Nouvelle**

Unprecedented accuracy for cable network inspection thanks to ALTRANS ENERGY's artificial intelligence and quantum technology

**[Press release] Grenoble, 15<sup>th</sup> June 2022. The deeptech start-up [ALTRANS ENERGY](#), which specialises in the monitoring of electrical networks, is the winner of the General Public prize in the Start-up category, obtained at the seventh edition of the "Simulation and Digital Technologies" Award. These awards are organised by French medias Industrie & Technologies and L'Usine Nouvelle. This prize was awarded by the jury of the Trophy on 14<sup>th</sup> June, 2022, at the TERATEC Forum in Ecole Polytechnique in Saclay.**

### **An award that echoes societal issues**

The objective of the Start-up Trophy is to reward projects in the field of digital simulation, HPC (High performance computing) and AI (Artificial Intelligence). ALTRANS ENERGY's founder and CEO, Cornel Ioana, PhD, explains

*"This is a recognition of the interest of our AI and quantum-based technology to contribute to the prevention of electrical failures at high voltage for power transmission networks, at medium voltage for distribution, and at low voltage for private and institutional clients. ALTRANS ENERGY's goal is to ensure the reliability of power grids - a major issue in the context of the essential role of electricity in the current environmental, economic and societal transition."*

### **ALTRANS ENERGY's innovation in Artificial Intelligence is recognised**

ALTRANS ENERGY has invented and developed a breakthrough technology that uses artificial intelligence for the autonomous inspection of electrical networks. The jury was impressed by its innovation, which consists of distributed sensors forming an AI network for the detection of precursors of faults in cables. Cornel Ioana, PhD, details:

*"Our innovation is based on quantum algorithms that allow the fine identification of fault precursors in cables, such as partial discharges, through their interference at the quantum level with a broadband waveform propagating in the network. The quantum metrics allow for very accurate location of incipient faults, as well as fault classification through an artificial intelligence approach based on the descriptors defined by these quantum metrics."*

## Several pilot projects to secure the power supply

The innovation behind ALTRANS ENERGY has been validated on several pilot projects in an operational context, tested in collaboration with international industrial partners who are leaders in their market: ENEDIS, EDF, SAGI Tech, Shanghai Electric.

- END -

## ALTRANS ENERGY in key facts and figures

- Founded in 2020 by Cornel Ioana, PhD, Lecturer at Grenoble INP – GipsaLab
- A team of 4 people based in Grenoble
- A startup supported and co-founded by Linksium, a Grenoble-based Technology Transfer Acceleration Company
- ALTRANS ENERGY won the BPIfrance I-lab prize in 2021
- An innovation patent and a protected software are being exploited, resulting from research work within the Gipsa-Lab laboratory and developed by Grenoble INP
- A dozen pilot systems around the world with international energy leaders
- Partners: ENEDIS, EDF, SAGI Tech, Shanghai Electric

## About ALTRANS ENERGY ([www.altransinnov.com](http://www.altransinnov.com))

Founded in 2020, the deeptech start-up ALTRANS ENERGY offers automatic inspection solutions for cable networks. Its innovation consists of distributed sensors forming an artificial intelligence (AI) network for the detection of precursors of defects in cables. The AI approach is based on quantum algorithms that allow for fine characterisation of these precursors.

Its team of 4 people, based in Grenoble, is supported by Linksium, the Grenoble Alpes Technology Transfer Acceleration Company (SATT).

ALTRANS Energy is the winner of the General Public prize at the 2022 “Simulation and Digital Technologies” Trophy, organised by L’Usine Nouvelle.

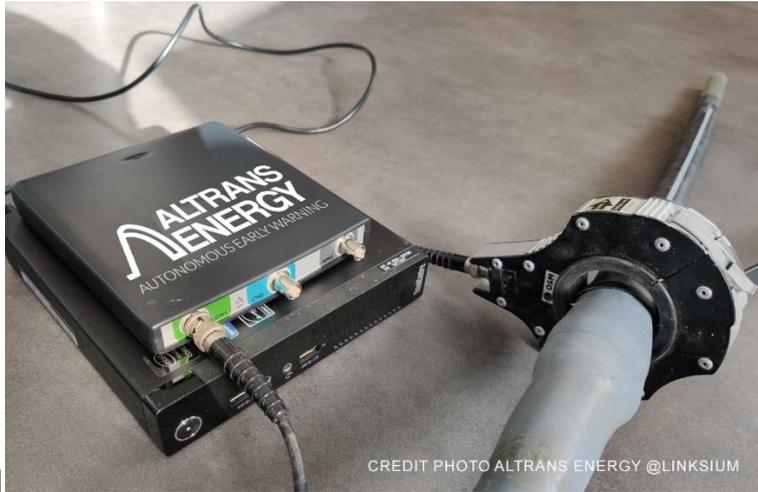
[LinkedIn](#)

## PRESS CONTACT

Pauline VETTIER | [pauline@majorellemarketing.com](mailto:pauline@majorellemarketing.com) | [LinkedIn](#) | [Twitter](#)

Cornel IOANA | [cornel.ioana@altransinnov.com](mailto:cornel.ioana@altransinnov.com) | +33 (0)6 32 35 23 71 | [LinkedIn](#) | [altransinnov.com](http://altransinnov.com)

## GALERIE PHOTOS



1. Légende Current version of the ALTRANS ENERGY prototype for automatic inspection of electrical networks
2. Cornel Ioana, PhD, Fondateur and CEO of Altrans Energy