



**GALAXIA,**

**at the cutting edge of  
cybersecurity with  
a quantum demonstrator  
and a cyber range**

## REDU-TRANSINNE, A CUTTING-EDGE SPACE HUB

Tucked away in the heart of the Belgian Ardennes, in the municipality of Libin, a space cluster of impressive international scope is taking shape. Capitalising on the historic presence of the European Space Agency (ESA/ESEC centre (European Space Security and Education Centre)), which has been based in Redu since 1968, IDELUX is developing a 20-hectare business park in Transinne dedicated to space and high-tech: Galaxia.

Galaxia is much more than just a business park; it is a top-tier ecosystem, reinforcing its position as a bastion of innovation and security in the space industry. Today, Galaxia is firmly committed to cybersecurity, through two new cutting-edge technological tools: a quantum demonstrator (Quantum Communication Research Lab) and a cyber range.



The Nexova Group's presence, with its new European cybersecurity centre of excellence being set up in Transinne, combined with the ESA/ESEC centre being established in Redu, with responsibility for the cyber protection of the European Agency's ground and in-flight activities, further strengthens Redu-Transinne's position in the area of space cybersecurity.



## GALAXIA, THE EPICENTRE OF THE SPATIAL ECOSYSTEM

➔ **Fully equipped plots (10 ha)** are ready to welcome new investors. **Nexova Group** has set up its new European cybersecurity centre of excellence here. Unique in Europe, it will ensure the secure design, operation and use of IT systems and critical infrastructures for European commercial and institutional organisations.



➔ **The Euro Space Center (ESC)**, established in 1990, is a symbolic place where visitors can immerse themselves in an educational and entertaining adventure dedicated to space. It is the only centre in Europe where anyone can stand in the shoes of an astronaut, offering an unforgettable experience. In 2023, ESC hosted 34,000 training days and 74,000 visitors of 63 different nationalities, testifying to its worldwide appeal.

➔ **A business centre** dedicated to space applications and connected by fibre optic cable to the ESA/ESEC in Redu. It houses incubation services for ESA-labelled start-ups (**ESA Space Solutions Belgium**), as well as **Telespazio Belgium** which specialises in services offering integrated solutions for navigation, Earth observation, satellite communications and other advanced applications.



### ➤ **Le Galileo Integrated Logistics Support Centre (2,300 m<sup>2</sup>)**

developed by the European Commission has played a crucial role since 2017 in ensuring the operability of all ground stations of the European Galileo satellite positioning system. Its presence reinforces Galaxia's positioning as a leading space hub on the international stage.



### ➤ **The European Space Security and Education Centre (ESEC-Galaxia) of the European Space Agency**

offers innovative space training and education programmes for teachers and university students from ESA member states. Every year, some 1,200 people benefit from high-level technological training at Transinne.

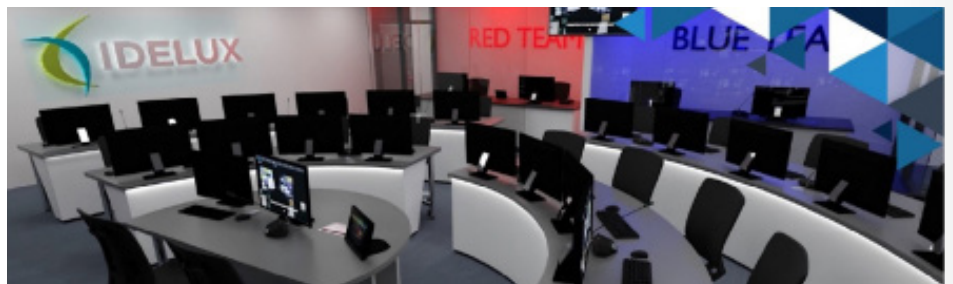
➤ **A brand-new infrastructure designed to host companies** and offer them new spaces in which to do business, comprising 3 adjoining 800 m<sup>2</sup> relay halls and 400 m<sup>2</sup> of administrative space, including a dozen offices, two meeting rooms, sanitary facilities and a kitchen; the central hall, which has been specially designed and built to accommodate activities linked to cybernetic technology, houses **the quantum demonstrator and the cyber range.**

## A CYBERSECURITY SYSTEM UNIQUE IN EUROPE

Since 2015, Europe has faced an unprecedented wave of cyberattacks, illustrating the growing diversity and complexity of threats in cyberspace. Faced with this threat, the European legislature has taken a radical stand, making cybersecurity Europe's number one security issue.

Against this backdrop, Wallonia has decided to adopt a "Cyberwal by Digital Wallonia" cybersecurity policy to protect its territory, society and all stakeholders involved. As part of this initiative, several structuring programmes have been set up as of 2022.

Wallonia is thus aligning itself with the objectives of the European Commission and the Walloon Recovery Plan by creating a leading cybersecurity technology ecosystem, enabling scientific and industrial communities to come together around three key initiatives:



- **an international cybersecurity school, "Cyberwal in Galaxia"**, organised each year by IDELUX. The aim of this initiative is to develop a top-level international training centre in Galaxia, aligned with the technological needs of institutions, companies and public authorities. The programme's design is overseen by a scientific committee chaired by Axel LEGAY, Professor of Cybersecurity at UCLouvain;
- **a quantum demonstrator**, enabling the deployment, evaluation and validation of

point-to-point cybersecurity and quantum resilience solutions;

- **a cyber range** to simulate and train for cyberattacks, particularly those generated by Artificial Intelligence.

These two demonstrators meet the challenges identified by the region within the Cyberwal consortium, in line with the strategies of the European Cyber Security Organisation (ECSO), ESA and the European Commission.

The IDELUX Group, founded in 1962, is the sustainable economic development agency for the province of Luxembourg. With over 60 years' experience, it is structured into five intercommunales (organisations providing services) and employs 500 people. Its public-interest mission is to help to improve the well-being of the inhabitants within its territory through four main areas of activity: economic development, support for community projects, water management and waste management.

In terms of economic development, IDELUX is particularly active in strategic sectors such as space, biotech, logistics, wood, agrifood and tourism. Cybersecurity is also a priority for IDELUX, which is committed to promoting cybersecurity initiatives such as Cyberwal and supporting companies in their efforts. In close collaboration with public and private players, IDELUX works towards the harmonious and sustainable development of the province of Luxembourg, serving its communities and businesses.



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