



GALAXIA:

**the cutting edge
of **cybersecurity** with
a quantum cryptography
laboratory and a cyber
range**



IDELUX
DÉVELOPPEMENT

REDU-TRANSINNE, A CUTTING-EDGE SPACE HUB

Tucked away in the heart of the Belgian Ardenne, 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 (European Space Security and Education (ESA/ESEC)), which has been based in Redu since 1968, IDELUX is developing a 20-hectare business park in Transinne dedicated to space and cybersecurity: Galaxia.

Galaxia, much more than a business centre, a real space ecosystem and a key player in cybersecurity. The IDELUX Cybersecurity Centre includes two cutting-edge technological infrastructures, the Gilles Brassard quantum cryptography laboratory and a cyber range with flight simulator.



The IDELUX Cybersecurity Centre, working with the ESA-ESEC Cybersecurity Centre in Redu, responsible for the cyber protection of the European Agency's ground and in-flight activities, and the Nexova Cybersecurity Centre of Excellence in Transinne, all contribute to the emergence of a 'cyber valley' with European ambitions.



GALAXIA, EPICENTRE OF THE SPATIAL ECOSYSTEM

➔ **Fully equipped plots (10 ha)** are ready to welcome new investors. **The Nexova Group**, supplier of customised cybersecurity solutions, which meet the technical, operational and strategic needs of businesses, operates its own 3,300 m² cybersecurity centre on the Galaxia Park.



➔ **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 2024, ESC hosted 19,500 young people aged 8 to 18 and 71,400 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 **Telespazio Belgium** which specialises in services offering integrated solutions for navigation, Earth observation and satellite communications.



➤ The Galileo Integrated Logistics Support Centre (2,300 m²)

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 the 23 ESA member states. Every year, some 1,500 people benefit from high-level technological training at Transinne.

➤ The IDELUX Cybersecurity Centre includes a **business centre** (3 adjacent halls (800 m²), administrative spaces (400 m²) with around ten offices, two meeting rooms, toilets and a kitchen), **the Gilles Brassard quantum cryptography laboratory** and the **cyber range**.

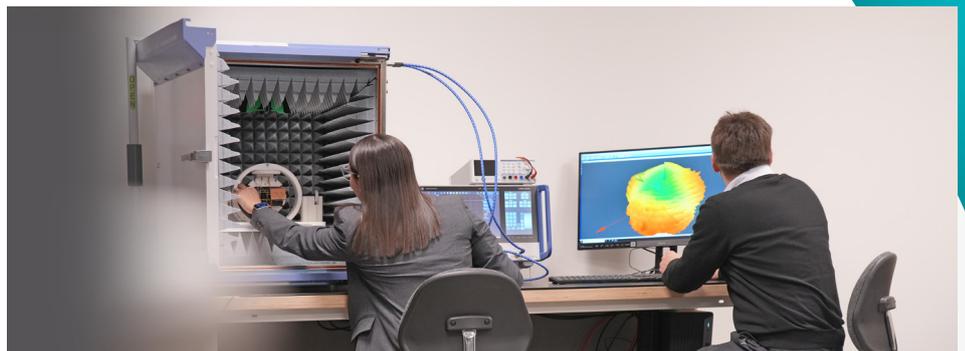


A CYBERSECURITY SYSTEM UNIQUE IN EUROPE

Since 2015, Europe has been faced with an ever increasing wave of cyberattacks, which underlines the complexity of the threat. To combat such an issue, the European legislator has signalled cybersecurity as a number one priority. In such a context, Wallonia has adopted the 'Cyberwal by Digital Wallonia' policy to protect its land and players by launching several key programmes since 2022.

As part of its revival plan, the Walloon region has decided to create a cutting-edge cybersecurity technology ecosystem at the Galaxia Park in Transinne. This project includes two flagship tools: the cybersecurity school and the IDELUX Cybersecurity Centre.

The 'Cyberwal in Galaxia' international cybersecurity school, organised annually in December by IDELUX, aims to develop a high-level international training centre to meet the technological needs of institutions, businesses and public authorities.



The IDELUX Cybersecurity Centre brings together two cutting edge infrastructures:

➤ **the Gilles Brassard quantum cryptography laboratory**, operated in partnership with Thales, which enables the deployment, evaluation and assessment of point-to-point cybersecurity and quantum resilience solutions;

➤ **a cyber range with a crisis simulator**, managed in collaboration with the Nexova Group, designed to simulate and train for cyber attacks, including 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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