CERN
Venture Connect



CERN
Venture Connect Platform

The power of the nucleus in your startup!

CzechInvest is a partner of the CERN Venture Connect. By joining this program, you can gain access to CERN's network knowledge, resources and technologies, thus providing a catalyst for your deep-tech startup's advancement.

Our Objective

We strive to offer comprehensive support to expedite the development of tech-based innovative business concepts. Our aim is to transform scientific innovations into real-world applications, into commercial use thus fostering viable and sustainable enterprises.

Offered CERN Technologies

Machine learning, real-time data analysis and autonomous decision-making, swarm robotics (i.e. a group of robots working together to achieve a common goal), human-robot collaboration and application of new materials in robotics.

Structured Laser Beam

This low-cost laser produces a non-diffractive beam (NDB). The beam profile remains unchanged even if it propagates over a long distance. It can be used for ultra-precision alignment, in metrology, interferometry and communication, as well as for optical tweezers and in the marking of packaging.

Single-Mode Laser

The integrated single-mode laser converter is a device that relies on the principle of Raman laser conversion for generating a single longitudinal mode (SLM) or a single-frequency laser output with a very narrow linewidth and very low phase noise. Its applications can be found in diverse areas such as spectroscopy, LIDAR, optical metrology, communication and quantum applications for singular light sources.

Ultralight Cold Plate (UCP)

This technology can be used for the cooling of power-dissipating elements, UCP is based on micro-macro vascular pipes embedded in high thermal conductive carbon substrate. UCP was developed for sensors/chips thermal management, but it can also be applied in drug production and other areas with need for cryogenic expertise.

RUCIO

This project provides services and associated libraries to enable scientific collaborations to manage large volumes of data spread across facilities at multiple institutions and organizations. RUCIO can bring forth benefits derived from different communities in the scientific domain, such as high-energy physics, astronomy, biology and any other field requiring extensive data storage and discovery.

White Rabbit (WR)

This technology provides sub-nanosecond accuracy and picosecond precision for the highly accurate synchronization of distributed electronic devices. WR can be introduced into many sectors including telecommunications, financial markets, smart grids, the space industry and quantum computing.

What We Provide

CzechInvest can help you get involved with the CERN Venture Connect platform and gain access to:

- CERN intellectual property under favorable conditions.
- Collaboration and networking opportunities with venture-capital firms, academic and research institutions, and specialized companies in relevant fields.

How to Apply

Visit our website, where you can find out more about the program conditions and apply for inclusion of your project.

www.czechinvest.org/en/cern

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