



# CERN VENTURE CONNECT

## Deep Tech Startup Support Programme

Linn Kretzschmar

# CERN Venture Connect

Supporting internal and external deep tech founders since 2023



## At CERN

World-class talent in many technical fields with entrepreneurial ambitions.

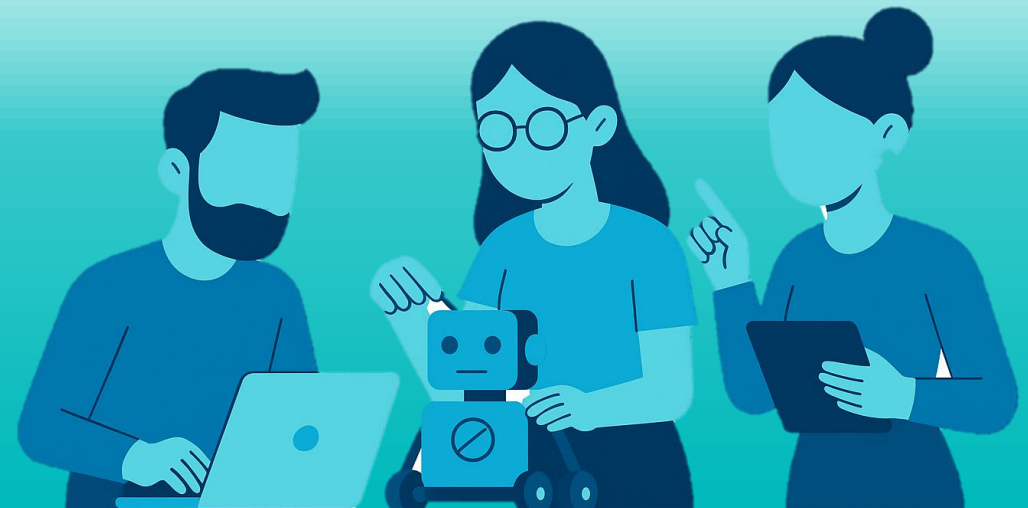
Limited entrepreneurial skills & access to network



## External startups

Deeptech startups from CERN Member States seeking access to CERN technologies.

Standard tech transfer model fails startup needs



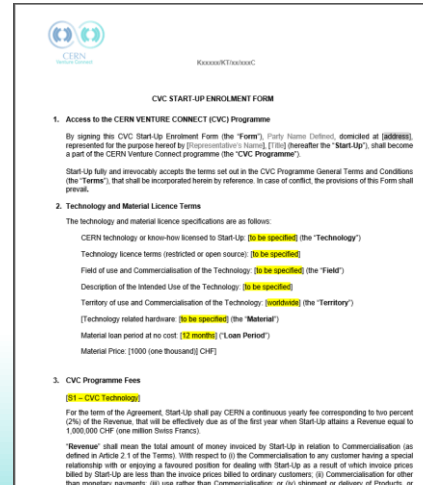
# Foundations of the programme

Fast Access to **unique CERN Technologies**

## Pillar 1

Preselected, high-TRL tech and expert support

- ✓ Reduced in-house R&D through top-tier tech + support
- ✓ Stronger product USP



**0% Equity Express Agreement**

**2% Royalty after CHF 1M**

Connect with **Global Network of Tech Experts, Investors & Key Deep Tech Players**

## Pillar 2

Network of established deep tech ecosystem players

- ✓ International visibility
- ✓ Direct access to deep tech ecosystem & expertise

# CVC Offering

Engage with our deep tech community & expand your professional network.

**Ecosystem Support.**



**CERN Tech.**

Receive a license for CERN's cutting-edge tech & unlock expert support.

**Workshops.**

Participate in expert-led workshops tailored to enhance skills.



**Funding Opportunities.**

Connecting with the next investor among our network of 20+ deep tech VCs.



**Talent.**

Leverage the CERN Alumni pool to recruit top-tier talent for the team.



QuIC Business Community Summit

# Technology Portfolio

Seven pioneering technologies ready to use

## ACCURATE 2A

High-Precision ASIC measuring current at femtoampere levels

## Structured Laser Beam

Collimation system for focused laser beams

## Single Frequency Laser

Ultra-narrow, multi-wavelength laser system

## AstroMesh

Satellite mesh networking with radiation monitoring

## White Rabbit

Sub-nano second time synchronization

## Rucio

Management of very large, distributed datasets

## Ultralight Carbon Coldplate

Lightweight thermal management

## Tech Prototypes

Readily available for testing



# CVC Community.

## Benefit from our regular networking events

Join us and connect with our 57 partners globally. Whether you look for funding, lab space, legal advice, your first customers or industry expertise, our network has got you covered.



### Venture Capitalists & Funding



### Support & Development



### Hubs & Legal advice



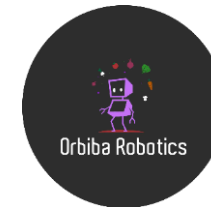
# CVC Startups



## CERN alumni



## External





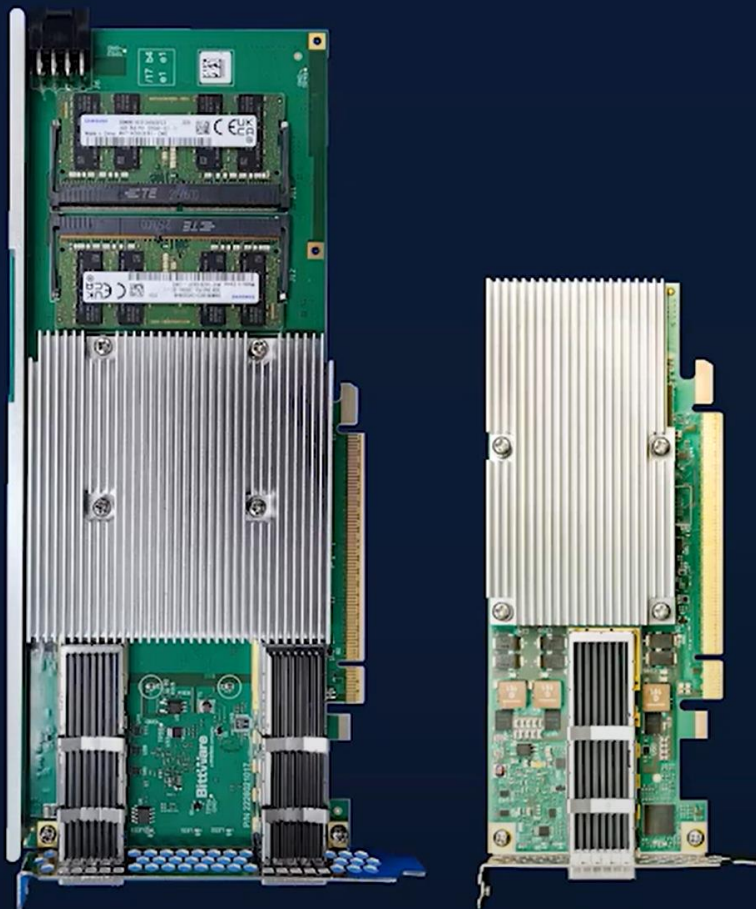
# LMS

LIQUID MARKETS SOLUTIONS

The Power of the Possible™

# ÜberNIC

## FPGA Network Controller & Network Stack



### Problem/Solution Summary



#### Data Centers Rely On High-Capacity, Ultra-Reliable, & Low-Latency Network I/O

- Legacy Solutions Unable To Handle Today's Typical & Burst Rates
- Data Rates Soaring: Network Traffic Increasing at 22% CAGR
- Multi-Gbps Microbursts Occur Frequently & Compound Challenges
- Message Drops Frequently Occur At Higher Data Rates Further Exacerbating Challenges

**LMS' ÜberNIC Offers the Lowest, Most Consistent Latency, with ZERO Drops,** and Delivers an Unparalleled Network I/O Outcome Transforming the Effectiveness & Efficiency of Network-Attached Systems, Thereby **Delivering Improved Economic Outcomes** to Clients.

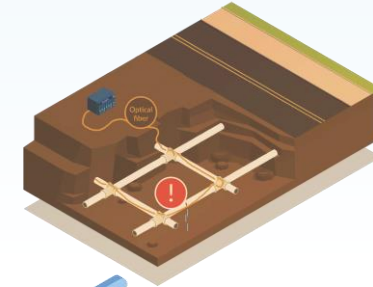


# fibersight

## Fiber Optic Sensors for Temperature & Humidity



Radiation-hard, long-distance, ultra-high precision sensing



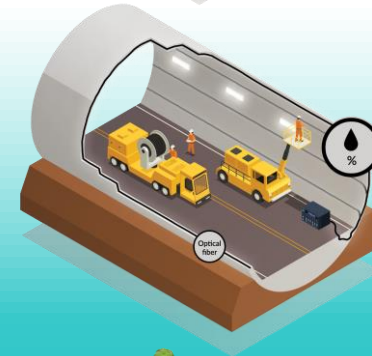
### Water leaks

- Real time Detection



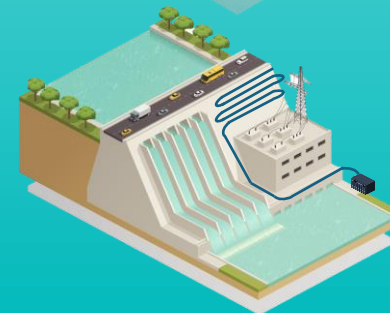
### Soil monitoring

- Optimal Irrigation



### Concrete curing

- Water needs

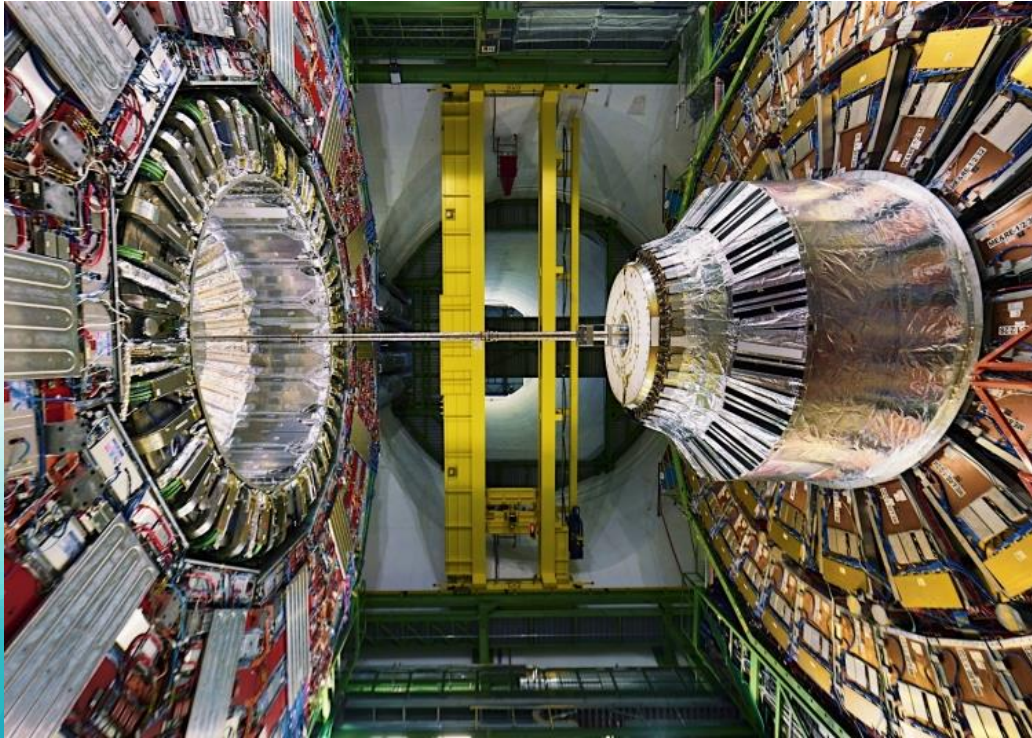


### Structural analysis

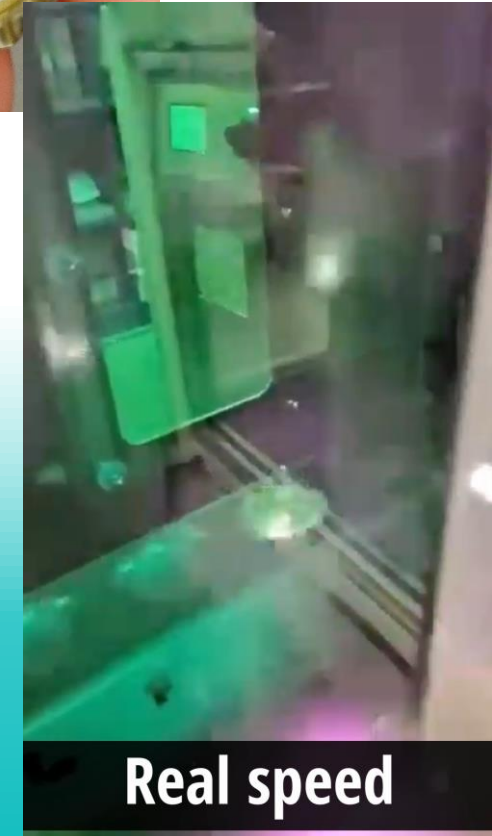
- Infiltrations

Pictures courtesy of Fibersight

## High-Speed Laser Marking of Consumer Goods



Alignment of heavy objects with 0.1 mm precision



Real speed

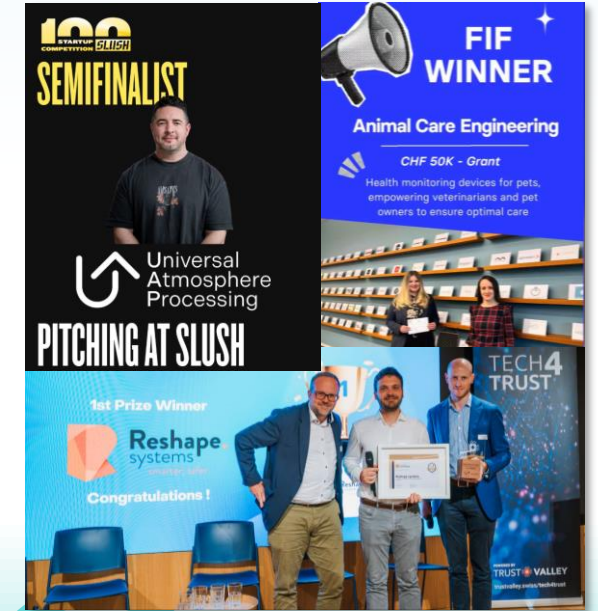
Pictures courtesy of Inphocal

# 2025 Achievements

8 new startups  
from 7 countries

## Achieved milestones

- ✓ Patents filed & granted
- ✓ First paying customers
- ✓ Significant revenue growth
- ✓ Launch of new product
- ✓ New strategic partnership



+32% growth  
(+15 Headcount\*)

\* incl. 2 CERN Alumni

€5 Million  
of funding accumulated\*

\* incl. €1.6 M via CVC network

# Our Terms And Conditions.

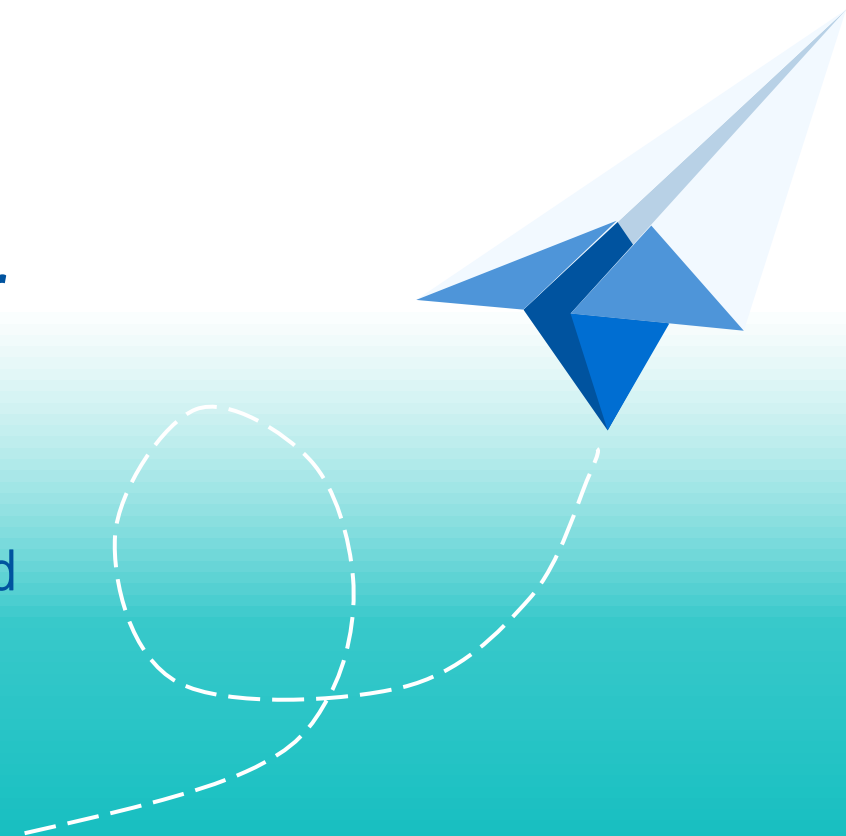
No-fuss express agreement with founder-friendly terms

# 2%

## PROGRAMME FEE p.a.

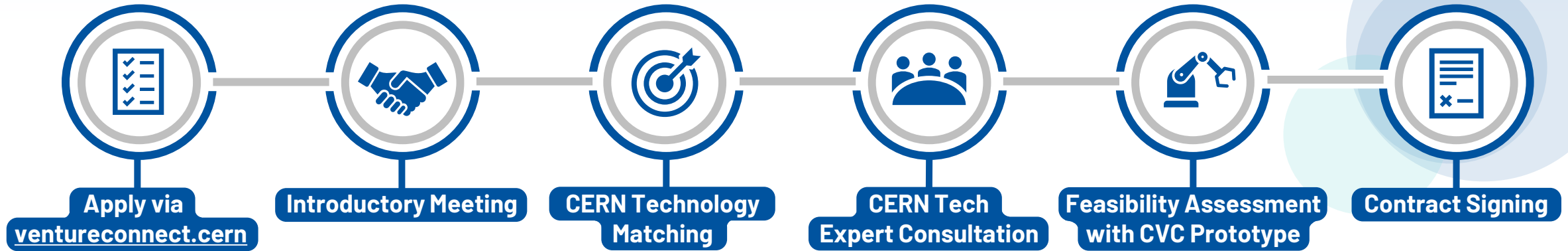
on revenue generated with CERN Tech applicable after exceeding CHF 1 million in annual sales.

- ✓ Equity-free, non-exclusive worldwide license to commercialize the tech for 10 years
- ✓ Exclusive access to technical support, resources, and activities to network and gain visibility
- ✓ Official endorsement from CERN (use of CVC Logo)
- ✓ Possibility for material transfer (where applicable)



# How To Join

Straight-forward selection process



## Eligibility Criteria

Deep tech startups, scaleups or entrepreneurs that are

- ✓ based in one of CERN's member states or associated member states\*
- ✓ driven by a passionate team with an ambitious vision
- ✓ CERN alumni or looking to leverage CERN technology to gain a competitive edge
- ✓ operating in non-military and non-defense-related industries

\* [List of CERN Member States](#)

**No Deadlines**  
Applications considered  
on a rolling basis



# CVC Activities & Network Support



24 MARCH 2025 2PM - 3PM CET ONLINE

## DEEP TECH TALKS

CERN VENTURE CONNECT  
PRECISION MEETS POWER: CERN'S ULTRA-NARROW  
LINEWIDTH RAMAN LASER

Discover how CERN's ultra-narrow linewidth raman laser is deployed  
at the world's largest experiment and explore how startups can utilise  
this advanced technology to drive their own innovation.



Register



## CERN VENTURE CONNECT SUMMIT 2024

CERN's entrepreneurship programme  
4 November 2024, 2pm, Live Webcast



- Get inspired by how CERN tech drives deep-tech startups
- Connect with key players in the startup ecosystem
- Learn about CERN Venture Connect startups and their entrepreneurial journey



# Thank you!



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## Learn More

## Meet the team