

CERN Venture Connect

Entrepreneurship @ CERN

CERN is the home to the world's largest machine

Large Hadron Collider

27km long accelerator complex

L. Kretzschmar

4 large

experiments

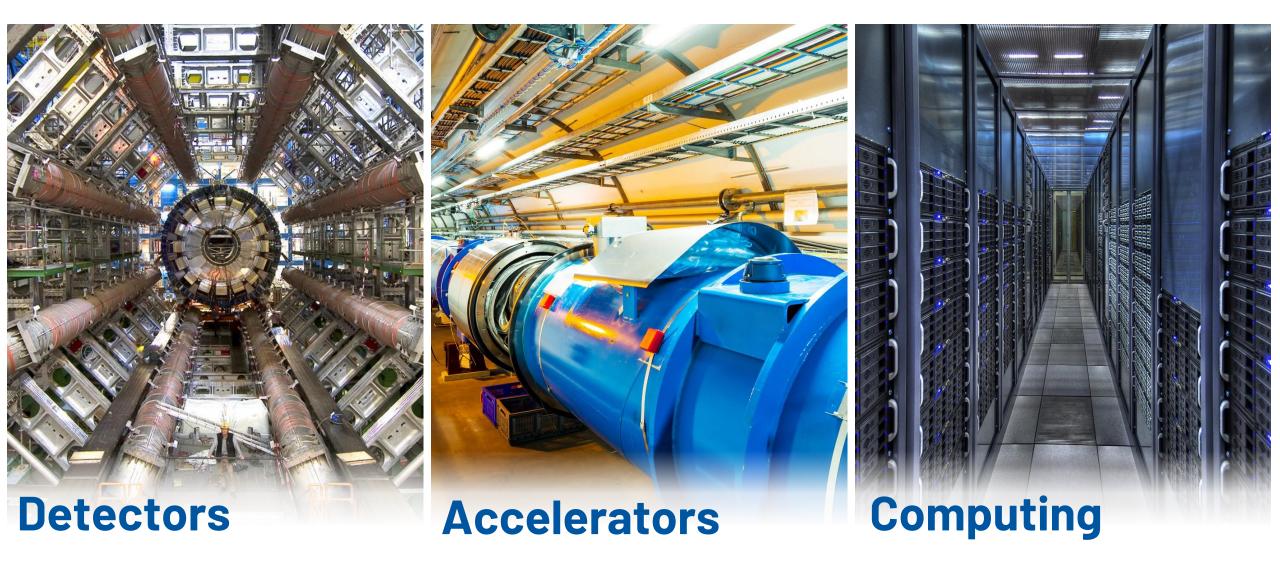
100m

underground

ATLAS

CERN Technologies come from three domains



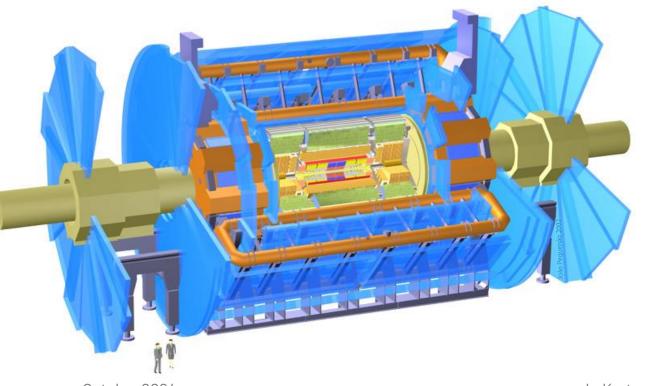


CERN hosts nine detector systems



Example of ATLAS detector





weighs 7'000 t

Equivalent to the Eiffel tower

October 2024

... and accelerators



One of them being the world's most powerful machine, the LHC



Circumference of the Large Hadron Collider



Particles travel at 99.9999991%

of the speed of light

1.9 K (-271°C)

Colder than deep outer space



... resulting in large data processing needs

Data storage, processing and analysis



40 TB/s

data produced by specialized sensors

170 sites in 42 countries

World's largest computing grid

CERN Venture Connect Program



Entrepreneurship support at CERN



Help deep tech startup founders succeed

A platform to connect with ambitious deep tech founders in all CERN member states



Bring together ecosystem partners that contribute with expertise and resources

Provide access to unique technologies and expertise developed at CERN

December 2024





Startup-friendly portfolio with preselected technologies

CVC offers access to CERN Technologies that





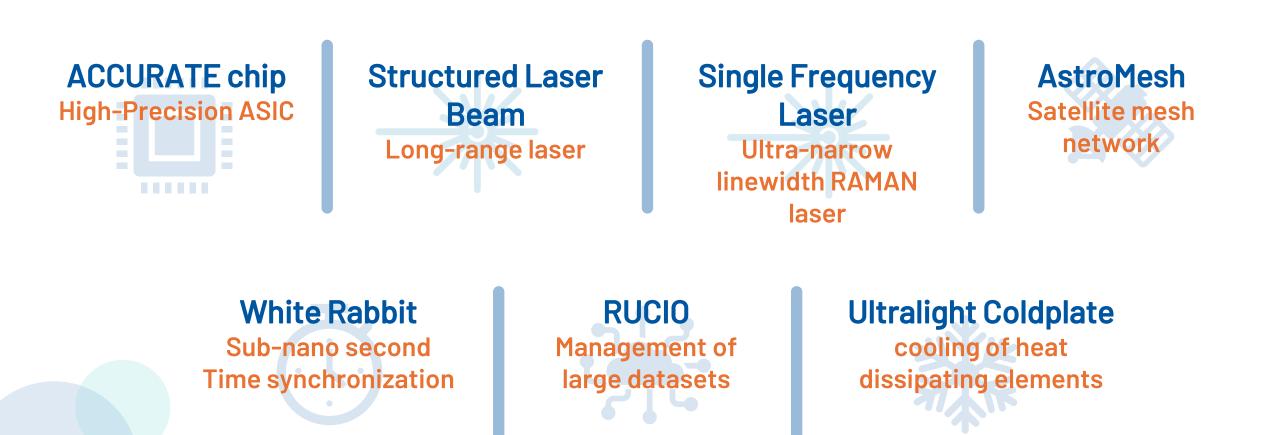


Access to prototypes for testing & validation

CVC Tech Portfolio

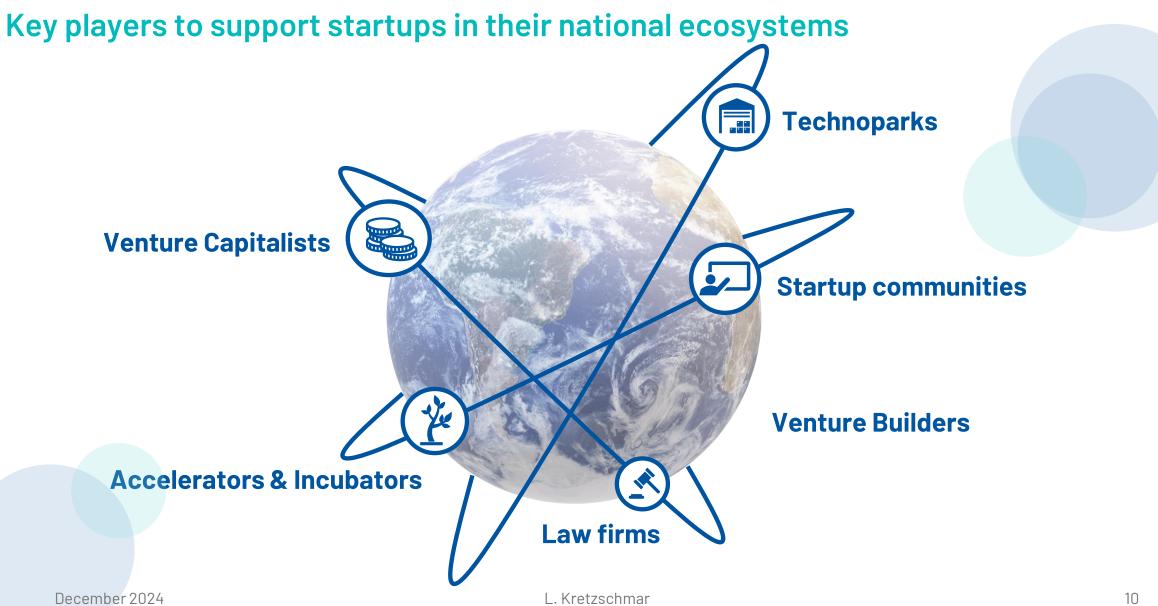


Seven unique CERN technologies ready to use



CVC Partner Network



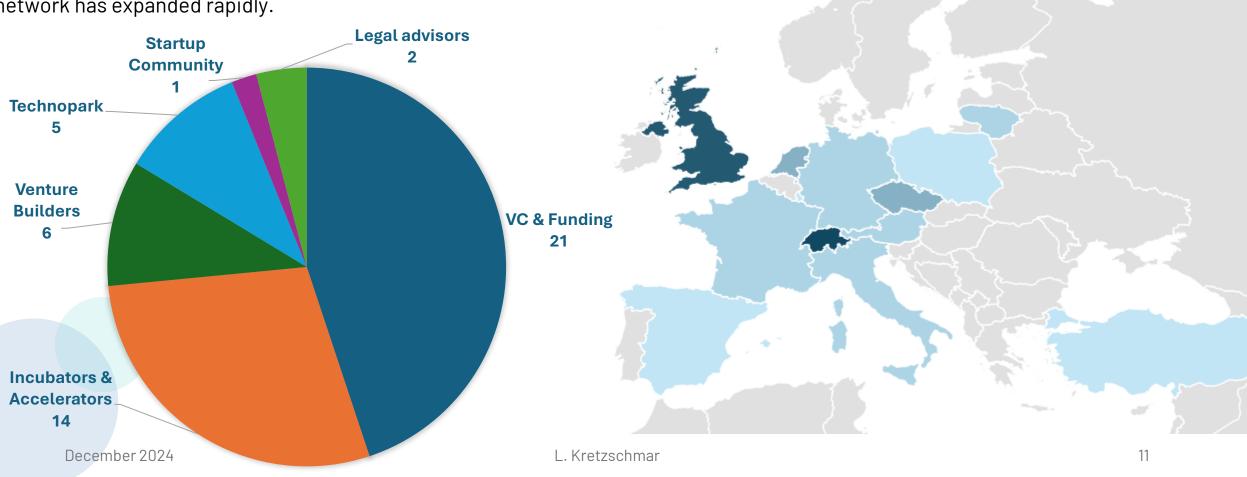


CVC Partner Network



50 partners across 15 CERN member states and associated member states

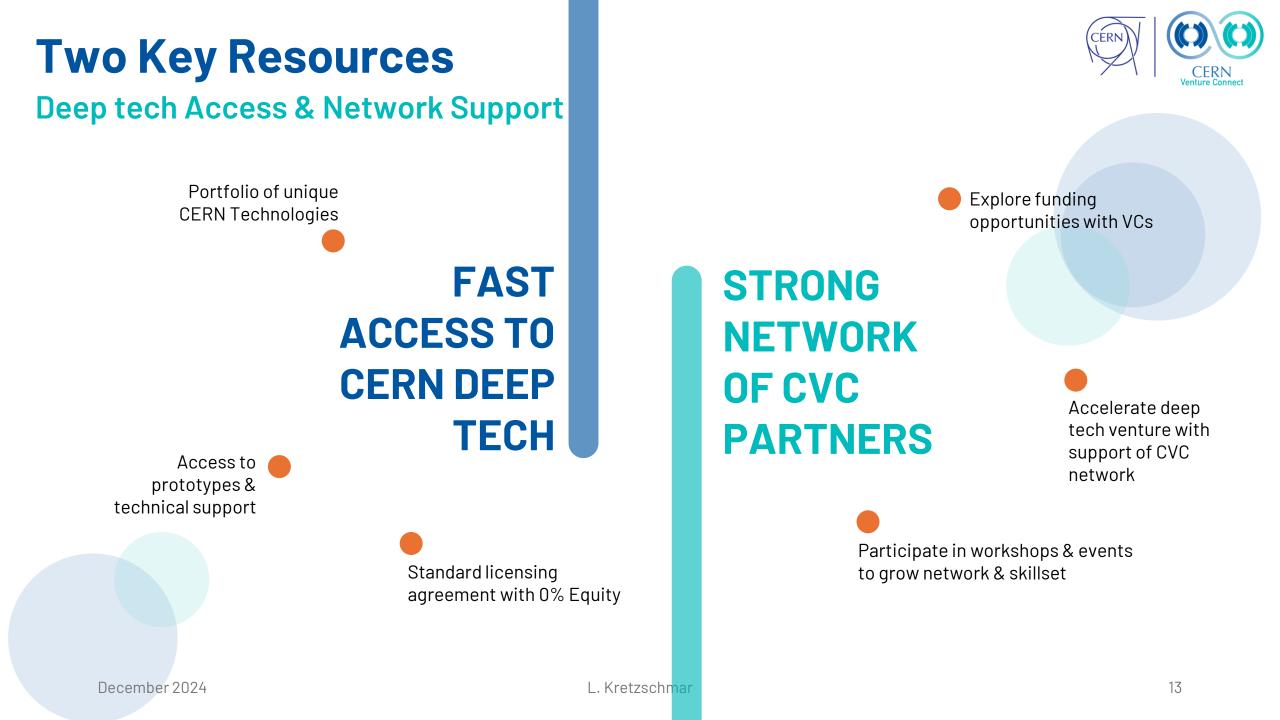
Since its launch in October 2023, our program's network has expanded rapidly.

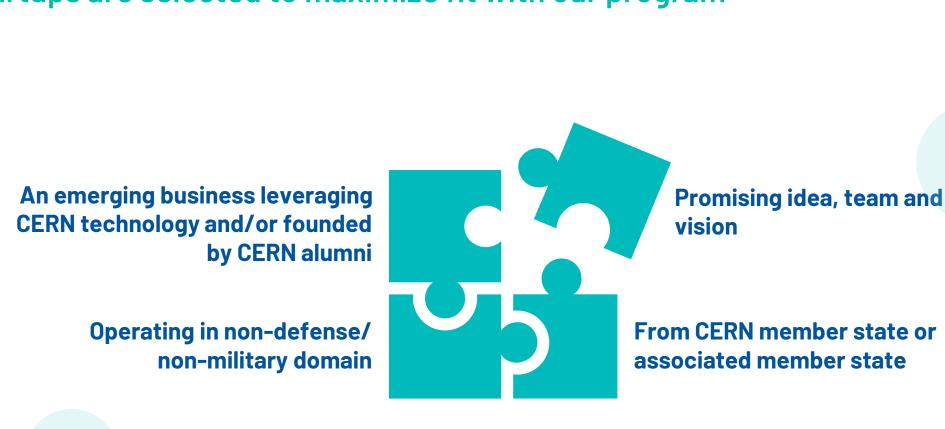


Our Partners









CVC Startups

Startups are selected to maximize fit with our program



Startups

UN

Five startups signed up in 2024

conven

tional

CERN CERN Venture Connect

in phocal







inphecal

Product marking with structured laser beam

InPhocal aims to replace inkjet and laser printers in the food and beverages industry.



High speed Marking of products, even on curved surfaces









Wind LIDAR system for flight safety

Lighteye uses CERN's single frequency laser to detect clean air turbulences



The World Economic Forum

What is turbulence and why is it getting harder to predict?

Experts say that flights are getting bumpier as climate change affects weather patterns. Here's what you need to know about #turbulence.





Weed Control Robots for sustainable agriculture

Orbiba Robotics aims to use the structured laser beam for data collection and removal of weeds



Support organic agricultural approach by reducing use of pesticides





For more info, visit our website or reach out to us.







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