GREEN TECH IN UPPSALA

Uppsala

GREEN TECH IN UPPSALA – INDUSTRY EXCELLENCE

A Growing Nordic Hub for Green Innovation
Uppsala is one of Sweden's strongest clusters for green technology and sustainable business development. The region hosts a rapidly expanding community of companies developing solutions in renewable energy, circular materials, sustainable mobility, and environmental technology.

A Collaborative Ecosystem with Strong Research Foundations
The green innovation ecosystem builds on close collaboration between industry, academia, and public actors. World-leading research environments drive advances in energy systems, climate science, and bio-based technologies, while companies are connected with sector partners and test environments that accelerate validation and commercialization.

Where science-driven innovation becomes industry-shifting deals
A In Uppsala, entrepreneurship is a natural extension of research. A strong spinout culture has emerged, where researchers own their intellectual property and have easy access to incubators, funding, and advisory support.

90+
active companies

1100+
employees

3
billion SEK turnover

INDUSTRY EXCELLENCE – ALTRIS

Altris addresses the need to reduce dependency on limited and environmentally burdensome raw materials such as lithium, cobalt, and nickel.

Altris develops sodium-ion batteries based on their patented cathode material, made from abundant and cost-efficient resources.

The result is a safer, more sustainable, and scalable battery technology that strengthens Europe's energy independence.



INDUSTRY EXCELLENCE – AIRFORESTRY

AirForestry addresses the need to reduce soil damage and emissions caused by traditional forestry methods that rely on heavy ground-based machinery.

Their solution is electrically powered harvesting drones that thin trees from the air with high precision, without creating access roads or harming the surrounding environment.

The result is a more sustainable, efficient, and gentle thinning process that strengthens forest growth while reducing climate impact.



INDUSTRY EXCELLENCE – NITROCAPT

NitroCapt addresses the need to cut global emissions, as conventional nitrogen fertilizer production is highly fossil-fuel dependent and a major source of agricultural climate impact.

Their patented process uses only air, water and fossil-free electricity to fix nitrogen, enabling nitrate-based fertilizers with radically lower carbon footprints.

The result is a climate-friendly, cost-efficient fertilizer solution that strengthens food system resilience and reduces dependence on global supply chains.



INDUSTRY EXCELLENCE – MAGSTROM

Magstrom addresses the need to reduce vibration-related wear, downtime and costly refurbishments in large hydroelectric generators.

Their patented technology controls the generator's magnetic field to eliminate the root causes of destructive forces, while diagnostic tools provide real-time insight into mechanical and magnetic health.

The result is significantly lower stress on equipment, extended generator lifetime, reduced maintenance costs and improved energy system resilience.



INDUSTRY EXCELLENCE – GRAPHMATECH

Industry increasingly requires materials that deliver higher electrical, thermal and mechanical performance.

The company develops patented hybrid graphene materials and novel engineered polymers and composites that offer exceptional electrical, thermal, and barrier properties while serving as drop-in replacements in demanding industrial applications.

The result is a new class of sustainable, high-performance materials that enable more efficient, durable, and environmentally sound solutions across sectors like hydrogen.



INDUSTRY EXCELLENCE – TRAKTORARVID

Traktorarvid addresses the need to reduce soil compaction, fuel dependence and labor intensity in modern crop production, where today's heavy tractors limit yields and increase operational costs.

Their solution is a Swedish-built, fully electric, autonomous agricultural machine designed for heavy draft work while being significantly lighter than conventional tractors.

The result a A more resilient, cost-efficient and sustainable farming system with improved crop yields and lower emissions.



INDUSTRY EXCELLENCE – DRUPPS

Drupps addresses the need for more sustainable water use by enabling businesses to replace freshwater consumption with atmospheric water sourced directly from the air.

Their approach combines high-efficiency atmospheric water harvesting with modular, on-site systems that use advanced filtration, automation and minimal energy to produce clean, reliable water in virtually any climate.

The result is a scalable, low-impact water solution that help companies secure a stable supply of high-quality process water.

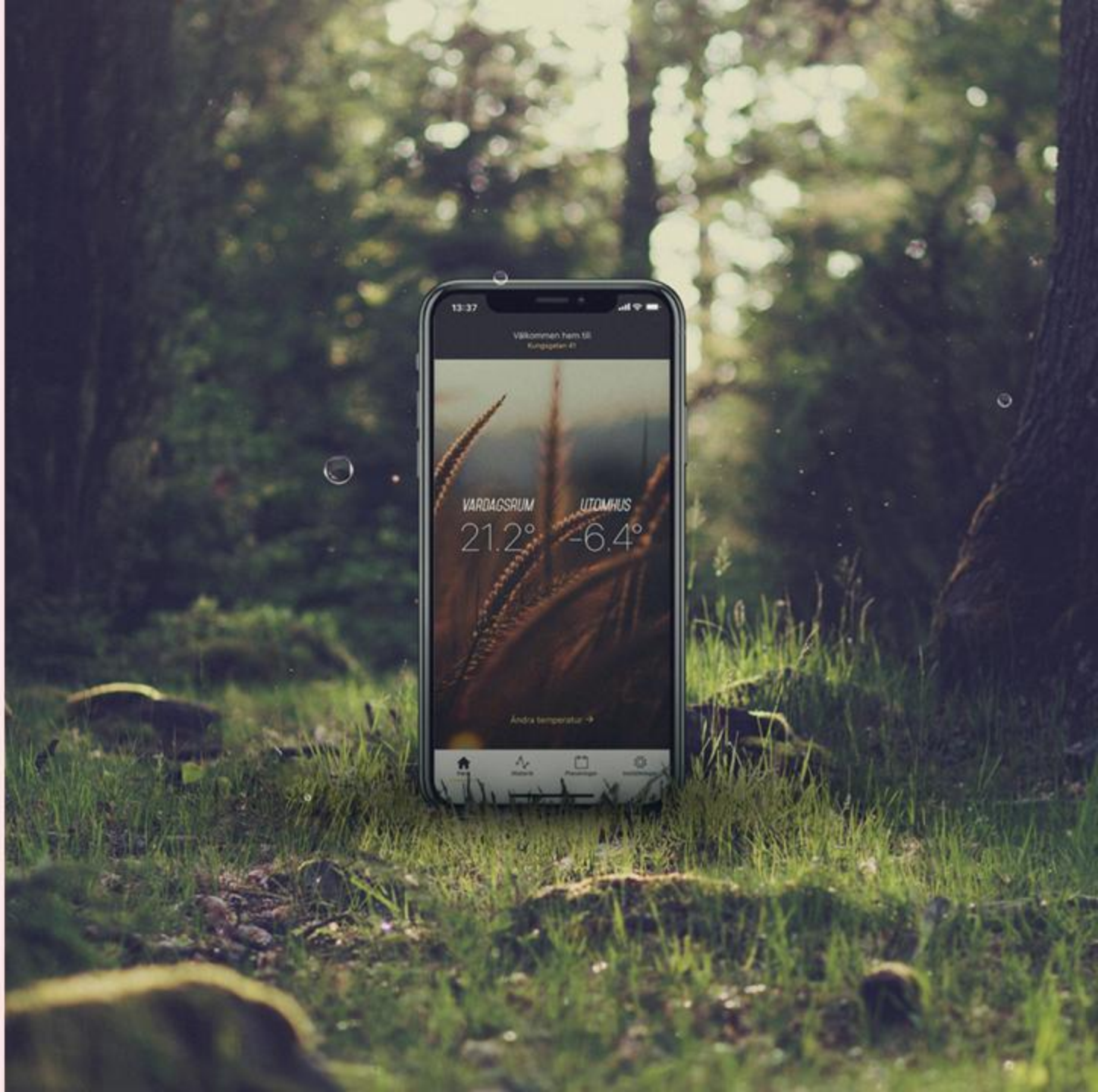


INDUSTRY EXCELLENCE – NGENIC ENERGI

Ngenic Energi addresses the need for smarter, more energy-efficient heating by giving property owners and energy utilities real-time insights and automated optimization of their heating systems.

Their approach combines advanced sensors, data analytics and AI-driven control to enable more flexible and resource-efficient energy use.

The result is a scalable, cost-effective solution that lowers energy consumption, reduces operating costs and strengthens grid stability – while improving indoor comfort.



MAJOR GREEN TECH EXITS

Uppsala: Turning breakthroughs into business

Evolar

New owner: First Solar (USA)

Purchase price: USD 38 million upfront Up to USD 42 million in milestone-based payments

Total potential value: USD 80 million

Solibro

New owner: Hanergy (China)

Purchase price: Not disclosed

Notes: Acquired from Q-Cells in 2012; Uppsala operations included

EasyMining

New owner: Ragn-Sells Group

Purchase price: Not disclosed

Notes: Ragn-Sells entered as financier in 2010 and acquired the entire business in 2014

Uppsala

ACADEMIC EXCELLENCE

Two World-Class Universities
Uppsala University (UU) is internationally renowned for medicine, pharmacy, molecular biology, and bioinformatics. The Swedish University of Agricultural Sciences (SLU) leads research in veterinary medicine, agricultural sciences, and forestry.

Bridging Research and Industry
Together with SLU, Uppsala University, and regional sustainability platforms, the ecosystem creates strong links between environmental research and industrial application.

Continuous Talent Supply
The academic environment provides new knowledge and skilled professionals, with more than 7,000 graduates each year. Specialised vocational programmes, including life-science operator training, add industry-ready talent that supports advanced manufacturing and production needs.

Two
world-class universities

7000+
graduates annually

Uppsala

ACADEMIC EXCELLENCE

Sustainable agriculture and environmental systems

The Swedish University of Agricultural Sciences (SLU) contributes world-leading research in bio-based materials, sustainable agriculture and environmental systems. The university advances green technologies through work on sustainable biomass systems, nutrient recycling and circular resource use across food, energy and biomaterials sectors.

Anna Rising conducts research on biomimetic spider silk technologies for applications in regenerative medicine and advanced biomaterials, focusing on molecular biotechnology, protein engineering and sustainable production of artificial silk fibers.



Stergios Adamopoulos conducts research on sustainable wood-based materials, bio-based adhesives and advanced wood composites, integrating forestry with wood technology.



Björn Vinnerås conducts research on safe and efficient nutrient recycling, focusing on hygienisation technologies, urine-drying and insect-based bioconversion.



ACADEMIC EXCELLENCE

Advanced materials and battery research

Uppsala University (UU) provides internationally recognized excellence in materials science and battery research, supported by the Ångström Laboratory and strong expertise in battery chemistry, advanced materials and sustainable energy storage technologies.

Marika Edoff is a leading researcher in thin-film solar cells, particularly CIGS technology, working on materials development, device fabrication, performance characterization and long-term stability to advance high-efficiency solar energy solutions.



Daniel Brandell conducts research on next-generation battery technologies, including lithium-ion, sodium-ion and solid-state systems, with a strong focus on materials chemistry, interfaces and advanced electrode and electrolyte concepts.



Sandra Eriksson specializes in electrical machine design for electromobility and renewable energy, with special focus on eliminating rare earth element dependency by modelling and evaluating alternative permanent magnet materials.



GREEN TECH SPINOUTS FROM SLU

Uppsala: Where research becomes companies

In Uppsala, entrepreneurship is a natural extension of research. A strong spinout culture has emerged, where researchers own their intellectual property and have easy access to incubators, funding, and advisory support.

Airis Garden AB

Equestrian Wool Arena AB

Traktorarvid AB

Alertix Veterinary Diagnostics AB

Biocell Analytica Uppsala AB

Green Rice Sweden AB

Greensway Digital AB

NitroCapt AB

PreVetAB

Sleip AI AB

AirForestry AB

Ecotype AB

Santitation360 AB

Xcida AB

...and many more

Uppsala

GREEN TECH SPINOUTS FROM UU

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AirWaterGreen AB

Altris AB

APR Technologies AB

Chromogenics Sweden AB

Current Power Sweden AB

Evolar AB

Duck Technologies AB

GraphMaTech AB

…and many more

Luma Energy AB

Magstrom Nordics AB

PercyRoc AB

Solibro AB

Vertical Wind AB

Uppsala

SOCIETY AND CULTURE



Uppsala



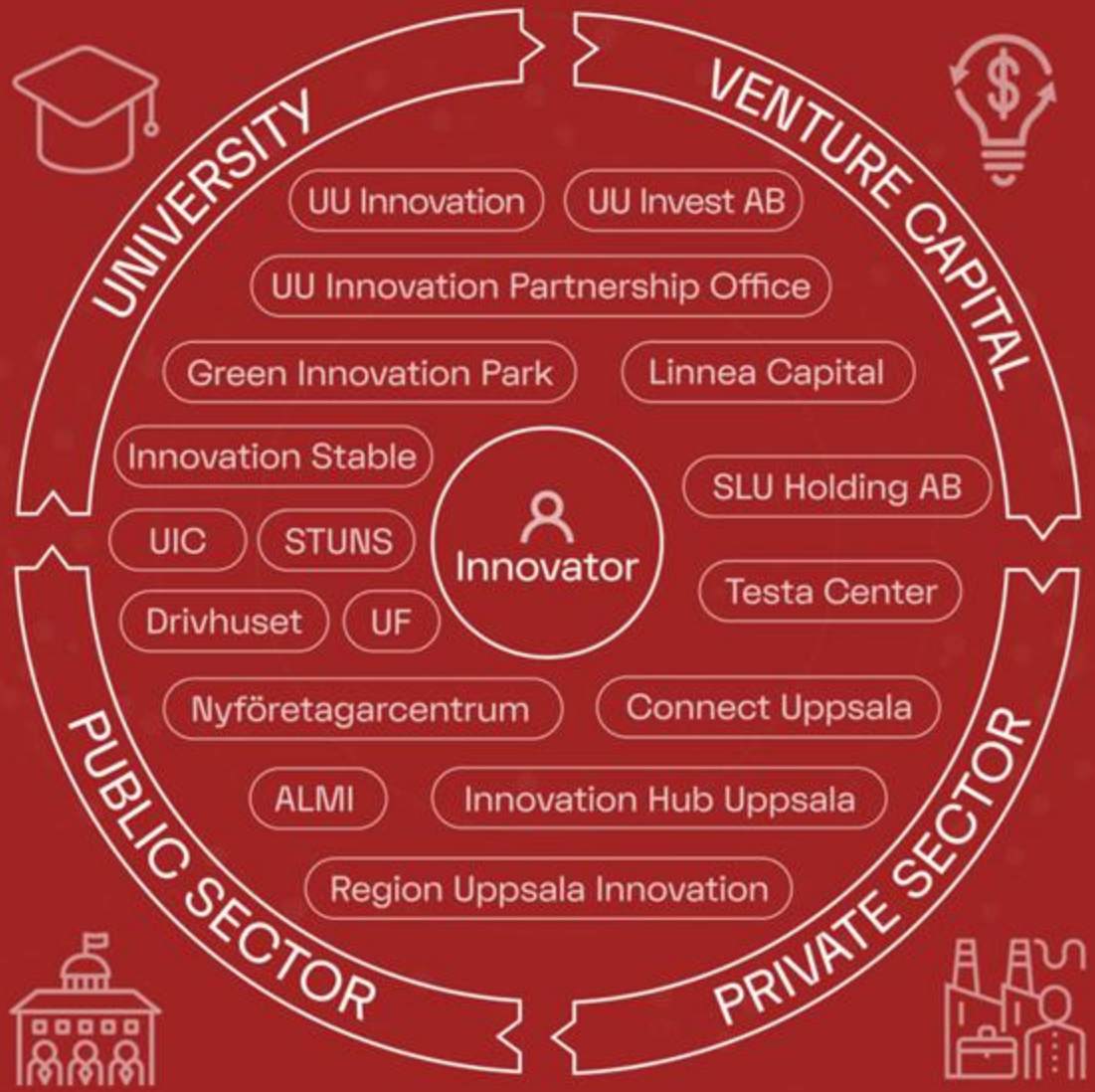
SOCIETY AND CULTURE IN UPPSALA

International and Open Culture
Uppsala combines a long tradition of scientific excellence with a dynamic society where innovation, sustainability, and entrepreneurship thrive.

Public – Private Collaboration
Close cooperation between public and private sectors attracts international companies and investments. The city offers an attractive living environment for talent and businesses alike.

Uppsala

THE INNOVATOR CENTERED ECO-SYSTEM



PAY-IT-FORWARD CULTURE

LÄNSSTYRELSEN UPPSALA LÄN
Stockholms Handelskammare
UPPSALA UNIVERSITET
SLU
Region Uppsala
Uppsala kommun

INVESTOR PROFLES

A Strong Investment Network supporting Green and Impact-Driven Ventures

Uppsala offers a strong financing pathway for green companies, with actors such as Connect linking startups to investors, and Almi Invest, Linnéa Capital, UU Invest, and SLU Holding adding regional venture funding. Private investors also play an active role in accelerating early-stage and growth-phase companies across the region.

Björn Lindh is an Uppsala entrepreneur and investor driving green innovation and deep tech, supporting climate tech, agriculture and advanced materials, linking research, capital and commercialization through Lindhea Holding ventures.



Thomas Lindgren works as a senior advisor and investor. His investments span a broad spectrum of impact companies, including green tech and life science. He finds it rewarding, educational, and meaningful to support entrepreneurs who are developing innovative solutions for a better future.



Johan Lundin is an energy and environmental engineer from Uppsala University with a strategy is to invest in companies that use software as well as hardware technology to create a green sustainable future.



SOCIETY AND CULTURE – SLU FUTURE FOOD

SLU Future Food is a national platform in Uppsala that drives collaboration and research for economically, ecologically, and socially sustainable food systems. It brings together researchers, industry, and public actors to address complex food-system challenges.

The platform strengthens interdisciplinary work, supports evidence-based decision-making, and ensures that SLU's research benefits society

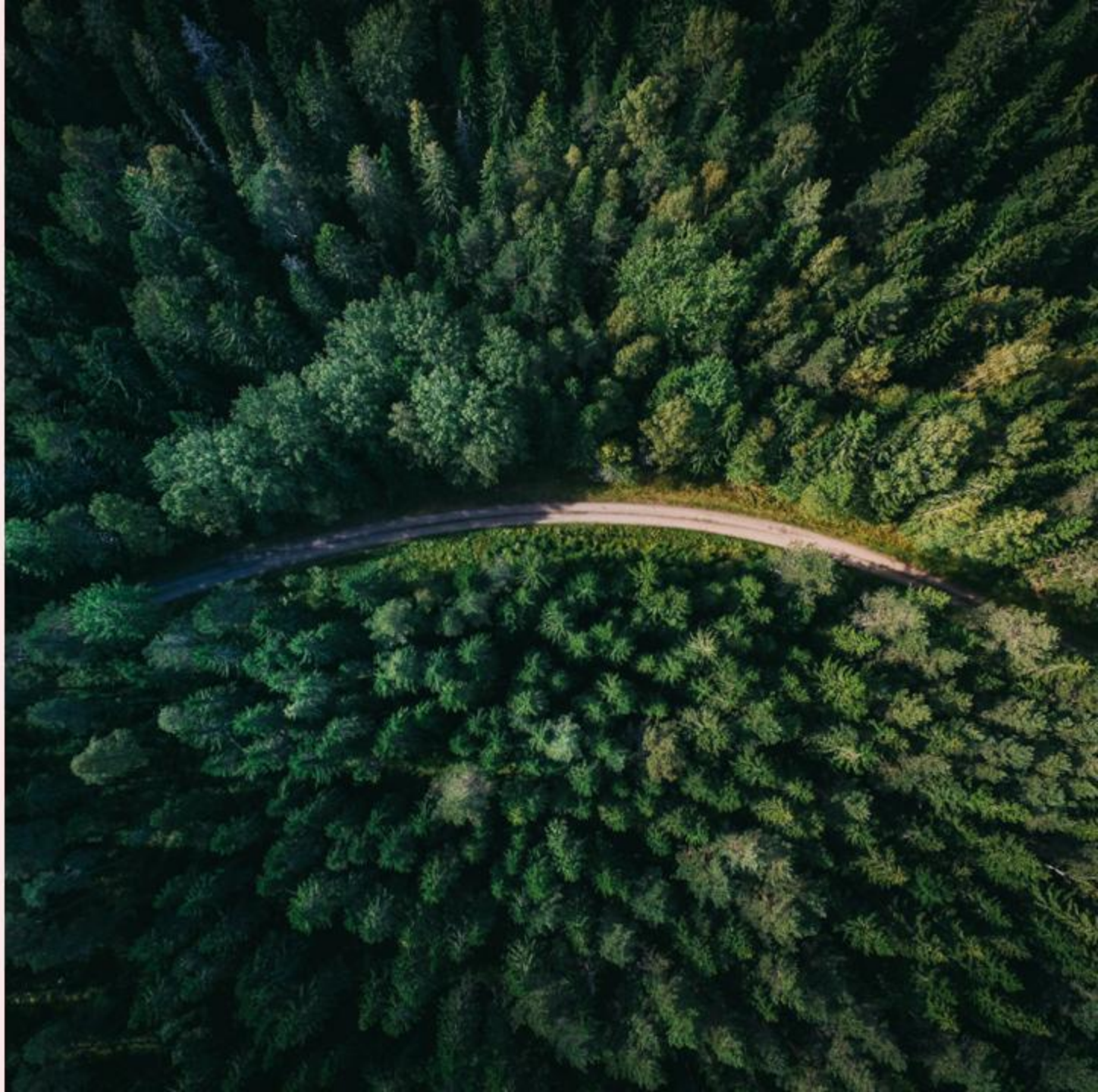


SOCIETY AND CULTURE – SKOGFORSK

Skogforsk is Sweden's national forestry research institute, headquartered in Uppsala Science Park.

The institute is funded by the forestry sector and the government, and provides applied knowledge and tools that support a profitable and sustainable forestry sector.

Skogforsk covers the full forest value chain and delivers science-based solutions that strengthen sustainability and climate resilience in Swedish forestry.



SOCIETY AND CULTURE – UPPSALA CLIMATE PROTOCOL

The Uppsala Climate Protocol is a local cross-sector climate network where companies, public organisations, universities and associations work together to reduce emissions and accelerate Uppsala's climate transition.

It provides a collaborative platform for shared climate commitments and practical measures that support the city's goals of becoming fossil-free by 2030 and climate-positive by 2050.



SOCIETY AND CULTURE – STUNS ENERGI

STUNS is a foundation that fosters collaboration between the universities in Uppsala, industry, and society.

Energy is one of its key focus areas, dedicated to advancing the Uppsala region as a leading testbed for energy and environmental innovation. Its mission is to enable the development and testing of new technologies, services, and business models that contribute to a more sustainable future.



SOCIETY AND CULTURE – UPPSALA INNOVATION CENTRE (UIC)

Uppsala has a world-leading innovation support system where more than 15 actors collaborate. At the center is Uppsala Innovation Center (UIC) – one of Europe's highest-ranked business incubators.

Each year, UIC receives around 300 business ideas, about 20% of which are tech companies.

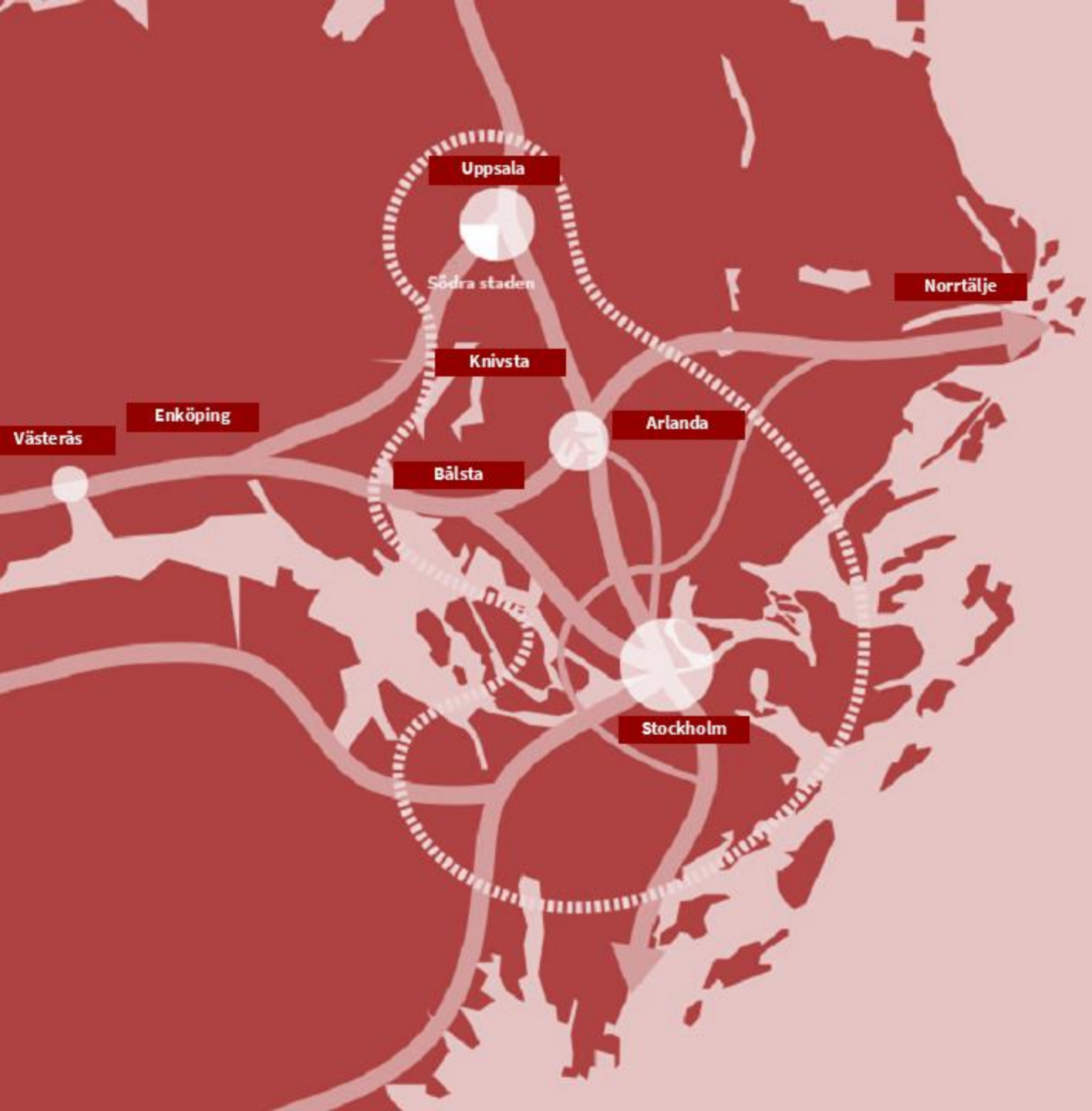
Through its programs – Startup, Build, and Accelerate – entrepreneurs receive support in everything from business development to financing and internationalization.



INFRASTRUCTURE AND BUSINESS PARKS



Uppsala



STRATEGIC LOCATION AND CONNECTIVITY

in the greater Stockholm–Uppsala region

Located just 30 minutes from Arlanda Airport, the region offers excellent rail and air connectivity to Europe and global markets.

Its strategic location ensures efficient logistics and access to a skilled pool of labour.

The area is powered by green energy, supporting sustainable operations, and provides a stable environment for business growth.

INFRASTRUCTURE – GREEN INNOVATION PARK

Green Innovation Park is a vibrant green knowledge hub in Uppsala where academia, industry, and public actors come together to drive sustainable innovation.

In just eight years, around 90 research-driven companies have emerged in the park's ecosystem, many with roots in SLU.

It offers more than flexible office spaces: it provides a mission-driven environment where companies can start small, access labs and test environments, build strategic networks and scale.



INFRASTRUCTURE – TESTBED FOR DIGITALIZED AGRIGULTURE

The Testbed for Digitalized Agriculture is a collaborative innovation arena led by RISE (Research Institutes of Sweden).

It provides a real-world environment where new agricultural technologies can be developed and tested, including digitalization, autonomous machinery, data collection and analysis, and AI-driven tools.

The initiative aims to accelerate the transition toward more efficient, sustainable, and climate-smart farming.



WHAT PROFILES UPPSALA IN GREEN TECH?

Batteries and sustainable energy storage

- Battery materials and electrochemistry
- AI-driven Materials Discovery, Sensors & Self-healing Battery Systems
- Full Battery Value Chain & Sustainability

Materials Chemistry and Materials Science

- Advanced Materials Science & Sustainable Materials Technologies
- Advanced Electron Microscopy & Characterisation
- Forest-based Biomaterials & processing

Solar cells

- Thin-film solar cells (CIGS)
- New solar cell materials & structures
- Perovskite solar cells & tandem-approaches

Sustainable Agriculture, Forestry and Animal Systems

- Agriculture, Horticulture & Food Production
- Forestry & Forest-Based Bioeconomy
- Veterinary Medicine & Animal Science

Sources: Uppsala University, SLU









GREEN TECH NICHES

Key green-tech niches where Uppsala's business community, academic excellence and innovation ecosystem are particularly strong:

- Batteries
- Electrification
- Materials
- Energy
- Water
- Natural Resources
- Circular Economy
- Sustainability

HISTORY

Uppsala: Shaped green tech before the term existed

Long before the term green tech existed, Uppsala was already building a leading ecosystem for green innovation. Early work in environmental, resource and bio-based research grew directly from academic and societal needs.

Collaboration between Uppsala University and SLU strengthened this foundation, including the launch of Sweden's first joint environmental engineering programme in the early 1990s, which anticipated today's climate-tech talent needs.

Since then, many green companies have emerged from university research. Several appeared before the market was ready, reflecting the long-standing depth of Uppsala's innovation culture. Uppsala's role in green innovation is built on decades of scientific strength and collaboration that continue to drive new technologies and companies today.



TECH IN UPPSALA – SUMMARY

INDUSTRY EXCELLENCE

Uppsala is emerging as a leading Nordic hub for green innovation, driven by a rapidly growing community of companies, strong regional collaboration across the green-tech ecosystem, and an investment network that accelerates sustainable and impact-oriented business development.

ACADEMIC EXCELLENCE

Uppsala University plays a leading academic role in Sweden's sustainability transition, with world-class research in solar energy, energy systems, sustainable consumption, climate adaptation, and circular resource flows. The university operates the Sustainability Forum, climate inventories, and multidisciplinary graduate schools in sustainable development, forming a knowledge engine for the region's green transformation. SLU (Swedish University of Agricultural Sciences) contributes complementary expertise within biodiversity, ecosystem services, forestry, agriculture, and food-system transition, strengthening Uppsala's academic profile in sustainability and green innovation.

INFRASTRUCTURE & SOCIETY

SLU provides world-leading expertise in agricultural science, smart farming and digitalisation. Green Innovation Park connects academia and industry with coworking labs and a strong sustainability-focused innovation community. The RISE Testbed for Digitalised Agriculture in Uppsala offers connected fields, 5G edge infrastructure and a full-scale arena for testing autonomous, electrified and AI-driven farming technologies.

Key Facts: 90+ companies, 1100 employees, SEK 3 billion turnover

Uppsala

Uppsala