THIS IS FINLAND

INNOVATION
Ambitious circular economy market

PEOPLE
Culinary tradition with an urban twist

TECHNOLOGY
Risto Siilasmaa on machine learning

FUN
Finns love spending time in the forest

Young startup talent

ROCK-SOLID TEAMWORK
Music, art, exercise, adventures... Many Finnish day care centres emphasise exciting themes. But it all comes down to having a good childhood.

A group of excited toddlers enter a forest near their day care centre in Helsinki. The group is already familiar with their play area in the forest, and the children climb nimbly on and over big rocks and tree stumps.

The CEO of Taiga Child Day Care Centres, Susanna Suutarla, explains the routines of the nature-themed centre:

“For us, nature is comparable to indoor spaces and we enjoy spending time outdoors around the year, come rain or shine. We spend many hours outside every day and we often even eat outside.”

“Taiga Child was founded 20 years ago. We worked together with Suomen Laitu – The Finnish Outdoor Association to create a concept called Luonnossa kotonaan – At home in nature, which emphasises playing and moving safely in nature, as well as spending time and doing things together without being in a hurry.”

Children learn how to use their bodies outdoors and also how to move in uneven terrain. The natural environment feeds the child’s imagination and through playing a curious child observes and learns from his or her surroundings.

In the forest, children learn very concretely how to separate a spruce from a birch and to take care of their environment. You wouldn’t leave the playroom untidy after playing indoors and the same applies to the outdoor play area. We cherish the values of a sustainable lifestyle,” says Susanna Suutarla.
Did you know that Finland ranks among the top nations globally across many metrics – not only in education, healthcare, equality, environment, safety and cross-country skiing, but also in happiness and entrepreneurship? This is a major thing for us Finns, because we don’t take our place in the global economy for granted, and we recognise that competence for skilled professionals is tough.

In this magazine, we want to show you some of the things that make everyday life in Finland great. We also share inspiring local stories on high-tech entrepreneurs and digital startups disrupting global industries. Why? Because entrepreneurship and innovation matters. For any nation, big or small, talent equals innovation. Innovation, by its nature, equals economic growth, entrepreneurship and privileges such as free public education, social welfare and a purpose-driven society. My own story as a growth entrepreneur and startup inventor started over 20 years ago, when being an entrepreneur was far from fashionable. Today, it is among the top most desirable professions among our university students. Our startup ecosystem is thriving and attracting top-tier global investors. Thanks to unicorns like Supercell and Rovio, the gaming scene is creating massive opportunities, but in addition, thousands of new health-tech, bio, and software companies have founded their home in Finland.

It has required both small miracles and major steps from society to put Finland on the global map as one of the leading startup nations. Major contributing factors include the inclusive society with a relative lack of hierarchy; the world’s most active angel investor and student entrepreneurship networks; and startup-friendly public R&D funding. Serial entrepreneurs and investors participate in coaching new entrepreneurs. Startup visas are provided for new talent moving to Finland. Society respects individuals stepping up. It truly has taken a village. The rise of new talent is only beginning.

So welcome to Finland! It’s a land of happy people, growing new companies and fostering talent. It’s a place to shape global industries. Innovation and entrepreneurship make this happen. So welcome to Finland! It’s a land of happy people, growing new companies and fostering talent.

*The chair Kuusi palaa – Six pieces in steel and aluminium was designed by Pinja Koskelin for Stockholm Furniture Fair.

This is FINLAND
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FACTS ABOUT FINLAND
POPULATION: 5.52 million
TOTAL AREA: 338,435 km², of which 10% is fresh water
BIGGEST CITIES: Helsinki (Capital), Espoo, Tampere, Vaasa, Oulu and Turku
OFFICIAL LANGUAGES: Finnish and Swedish
GOVERNMENT: Independent republic since 1917
CURRENCY: Euro

JOINED THE EU: 1995
GDP PER CAPITA: €40,638 (2017)
TOP SECTORS FOR FOREIGN INVESTMENT: Business services, ICT, healthcare and wellbeing, retail, cleantech
TOP AREAS OF EMPLOYMENT: Services, financial and business services, trade and hotel, manufacturing, transport and communications

SOLUTIONS FOR A HEALTHIER PLANET
The circular economy will ensure prosperity in the future

MEET & GREET FINLAND
The Finnish year is full of events for all ages and to suit all tastes

WE MAKE IT WORK
In Finland, startups are admired and encouraged

We rise as a nation
Stories illuminated
The circular economy will ensure prosperity in the future

COLUMN
Stable platform for scientific research

KEEP IT SHORT
From 5G to 6G, Space Finland
International Gender Equality Prize 2019

TOP SECTORS FOR FOREIGN INVESTMENT
Business services, ICT, healthcare and wellbeing, retail, cleantech

CHARTS & FACTS
What do Finns do in their spare time?

KNOWLEDGE DRIVEN
Eco-consciousness and business in the Arctic region

HIGH LIFE
Into the wild
Finnish brands – designed to last
The Circular Economy Will Ensure Prosperity in the Future

The goal of the circular economy is simple: to halt over-consumption so that we can still afford to be prosperous in the future.

The circular economy’s key idea is to detach growing prosperity from the over-exploitation of virgin natural resources. We are used to living in a linear economy, where goods are manufactured from raw materials, sold in the largest possible quantities, and eventually discarded. This model no longer works, now that it has become clearer that natural resources on the only planet available to us, Earth, are finite. The climate crisis and loss of biodiversity mean that we will have to leave some natural resources unexploited.

BUSINESS INCENTIVES

In the circular economy, products are shared, with services being purchased rather than goods. Materials are reused several times over and products are designed to be long-lasting. Material in single products is reused when they reach the end of their lives or an intermediate production phase. Minimal waste is created during production and product use.

“In many public discussions, the circular economy is only about recycling,” says Mari Pantsar, a Director at Sitra. Sitra is a Finnish agency focused on the future. As a fund, Sitra is building the thriving Finland of tomorrow and accelerating sustainable business.

“We have already partly made the transition to the circular economy but our patchy, if well-functioning, recycling and reuse of products is just the first step,” Pantsar believes that the key challenges lie in creating economic incentives to drive the use of recycled materials.
In the circular economy, products are shared, with services being purchased rather than goods. City bikes are shared bicycles available to everyone. In Turku, the bikes are available all year round and in winter they are equipped with winter tyres.

“Products made out of recycled materials are often more expensive, or market entry is difficult. Choosing products made out of recycled materials should make more financial sense for everyone,” says Pantsar.

“There is not much unique about circular economy activities: they were practiced in pre-modern times, because they made financial sense. Products were shared, long-lasting and many were reused as a matter of course. It just wasn’t known as the circular economy. Today these practises are combined with digital platforms that enable sharing practises.”

FINLAND A PIONEER IN MANY WAYS

Finland aims to create the world’s most ambitious circular economy market, which encourages investment and the creation of new solutions.

The world’s first circular economy roadmap was announced in Finland in September 2016. Following Finland’s example, nine other EU countries have drawn up similar action plans since then. The first event to highlight the world’s best circular economy solutions, the World Circular Economy Forum 2017, was arranged in Finland. More than 1,600 private sector delegates, decision-makers and experts attended from over 90 countries. The event fostered international cooperation in transforming the world’s economy. The 2018 forum was held in Japan.

Sitra’s list of key examples of circular economy businesses has been a popular awareness-raising tool.

“We hope that as many companies as possible go through the list and ponder whether it contains new ideas for doing business. Companies are queuing up to join the list, which has attracted interest elsewhere in the world.”

The circular economy is being widely taught in schools: a generation of Finnish youngsters have already learned about the phenomenon.

“We want to challenge teachers to teach the circular economy to children in every grade. Our aim is that all people, irrespective of their sector, understand how to realise the circular economy, ending the need for actual circular economy ‘experts’.”

“WE WANT TO CHALLENGE TEACHERS TO TEACH THE CIRCULAR ECONOMY TO CHILDREN IN EVERY GRADE.”

- MARI PANTSAR

VALTAVALO: LIGHT AS A SERVICE

Valtavalo manufactures replaceable LED light sources, i.e. LED tubes, in Kajaani. The company moved its production from China to Finland in 2012. As a substitute for fluorescent tubes, LED tubes are a standardised, long-lasting and energy-efficient light source. The LED tubes of different manufacturers also tend to be compatible irrespective of the lamp, which means that the lamp does not need to be changed for decades. At the beginning of the current decade, this also gave Valtavalo the idea of providing light as a service.

“Our products were originally designed to be very long-lived, but we found ourselves designing a product that was even a little too durable. We were unable to convince our customers that our LED tubes could genuinely last for over 15 years,” says Laatikainen, with a laugh.

“So we decided to create a business model based on lighting as a service, in which we bear the risk of the product’s durability. Gone, the lift manufacturer, was a positive example in this respect.”

The Valtavalo light service model lowers the customer’s threshold for purchasing high-quality, energy-saving lighting. The goal is for the customer to pay for the service from the accumulated savings, since the service can easily cut their lighting costs by up to half. With installation and maintenance outsourced, no unexpected repair costs are incurred by the customer. An integral part of the solution is a financing partnership, whereby Valtavalo is paid upfront for the products sold as a service. Valtavalo also handles the products’ recycling.

In addition to poor energy efficiency, the problem with the old fluorescent tubes is the tendency of the frames to deteriorate due to heat, UV radiation and the frequent need to change the tubes,” says CEO Markku Laatikainen.

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Valtavalo, a manufacturer of LED tubes, sells lighting as a service, rather than lamps as products. This is an excellent example of the circular economy concept, based on buying a service rather than a physical product.

Lighting is a major consumer of energy, and fluorescent tubes, in particular, have to be continuously replaced. Replacing them with a LED light significantly reduces lifecycle costs and creates direct energy savings.

“In addition to poor energy efficiency, the problem with the old fluorescent tubes is the tendency of the frames to deteriorate due to heat, UV radiation and the frequent need to change the tubes,” says CEO Markku Laatikainen.

“Products made out of recycled materials are often more expensive, or market entry is difficult. Choosing products made out of recycled materials should make more financial sense for everyone,” says Pantsar.

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Culture, design and business – the Finnish year is full of events for all ages and to suit all tastes. Try one of these in 2019!

BE INSPIRED BY SÁMI CULTURE
St Mary’s Day in Hetta, Enontekiö 22 to 24 March
Celebrating St Mary’s Day in Hetta, Enontekiö, is an old Sámi tradition. The Sámi people were already gathered there for weddings, christenings and funerals in the 16th century. The local Sámi Cultural Association, Josth Sápmelatot, has been arranging activities and programmes for the event since 1971. The program consists of a wide range of cultural events: seminars, exhibitions, concerts, workshops, dance and sports.

marianpaivat.fi

A RACE IN THE FOREST
The Jukola relay, Kangasala 15 to 16 June
The Jukola relay is the world’s biggest orienteering relay competition. It is open to the world’s elite, as well as amateur orienteers. In the two relay competitions, around 20,000 competitors head into the forests of Kangasala. In addition, the Jukola relay begins close to midnight. The weekend also includes amazing experiences for the public, as the competition center is like a small town with pop-up cafes and sports shops, a forest church and a range of events.

jukola.com/2019/en

MODERN ART WITH A FRESH PERSPECTIVE
Mänttä Art Festival, Mänttä 16 June to 1 September
The festival has been organised by its founding association, Mäntät kunstisto, since 1993. This is one of Finland’s leading summer reviews of contemporary art, with a new curator bringing a fresh perspective to the exhibition every year.

mantankuvataideviikot.fi/en.php

IN THE MOOD FOR METAL?
Tuska Open Air Metal Festival, Helsinki 28 to 30 June
The Tuska festival has been arranged since 1998. It is a country with a huge number of metal bands, the festival became a big success in its early years. A total of 34,000 metalheads made their way to Suulahdt in 2018.

tuska-festival.fi/en

HOW DO FINNS LIVE?
Housing Fair 2019, Kouvolä 12 July to 11 August
The Housing Fair is an annual event that showcases ongoing and future trends in the housing industry. The event is set up in an area where actual houses are built for the audience to visit. After the fair closes, families will move in and live in the houses.

asuntomessut.fi/english

UPDATE YOUR BUSINESS NETWORK
Nordic Business Forum, Helsinki 9 to 10 October
Autumn in Helsinki is the season of business opportunities. The Nordic Business Forum in October is one of the world’s key business conferences.

nbfforum.com

WORLD’S LEADING STARTUP EVENT
Slush, Helsinki November–December
In winter, during the coldest and darkest season of the year, leaders of the global startup and tech scenes get together in Helsinki for Slush.

slush.org

EXPERIENCE FINLAND!

SEVEN DIFFERENT FESTIVALS
Oulun juhla- viikot, 1 to 31 August
The Oulu August Festival will fill Oulu with arts and culture. The month-long celebration will feature: a jazz and rhythm music festival, a chamber music festival, a literary art festival, the Kaitelä Elia Music Festival by the Kaitelä rapids, the Oulu Arts Night, the Oulu Music Video Festival and the Air Guitar World Championships.

oulunjuhlatviikot.fi/en

DESIGNED FOR LIVING
Habitare, Helsinki 11 to 15 September
Habitare is Finland’s largest furniture, interior decoration, and design event. It includes exhibitions of contemporary design, design classics, materials and interior decoration solutions. At the same time, the Antiques event, the hill event, and Habitare Pro for professionals, will be held at Messukeskus.

habitare.messukeskus.com

HISTORY COMES TRUE
The Medieval Market, Turku 27 to 30 June
The Medieval Market is more than just a market. Visitors can experience the medieval atmosphere of five venues: the Medieval Market in the Old Great Square, Turku Castle, Turku Cathedral, the Horse Tournament at the Rohan Stables, and the Aboa Vetus & Ars Nova museum.

en.keskiaikaisetmarkkinat.fi

ART IS FOR EVERYONE
Helsinki Festival 16 August to 1 September
The largest arts festival in Finland aims to make art accessible for all. The programme line-up features classical and world music, theatre, dance, circus and visual arts as well as a range of urban events including The Night of the Arts. Helsinki Festival is honored with the EFFE Label 2017–2018 by The European Festivals Association (EFA).

helsinginjuhlaviikot.fi/en

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In Finland, startups are admired and encouraged. If they get off the ground, everybody wins.

Establishing a company in Finland is easy and affordable, and if you do it online, it only takes one hour. Getting your company registered may take a while though,” says Ville Heikkinen, co-founder and partner of Butterfly Ventures, a Finnish venture capital firm. “Butterfly Ventures invests in early stage startups with a technology and science focus. We are looking for fast-growing and scalable startups that have a strong team and good market potential.”

In his work, Heikkinen meets hundreds of new startups and listens to them pitching. He says the industries where Finnish startups have outstanding expertise are medical technology, gaming, artificial intelligence, wireless communication and the Internet of Things.

“Strength in technology, modesty in marketing. Typically, Finnish startups have excellent skills in their own technology, but are less skilled in marketing and sales. Modesty is a Finnish virtue, and praising our own pond does not come naturally to us. “But the recent years’ efforts to build strong and supportive ecosystems are starting to bear fruit, and occasionally I meet young entrepreneurs who show amazing courage and maturity. The startup mindset is moving from secretive non-disclosure thinking to a more Silicon Valley type of pay it forward attitude where companies help one another,” Heikkinen notes.

Ville Heikkinen, co-founder and partner of Butterfly Ventures

Werstas is a co-working space in Turku Science Park that offers inspiring surroundings and services to anyone looking for an easygoing office environment. Designed by Sigge Architects and Anniina Savisalo.
According to senior lecturer and project manager Anne Määttä of Kajaani University of Applied Sciences (KAMK), her duties include advising students who want to become entrepreneurs. “All our students have a mandatory basic business skills study module, on top of which you can opt for a longer business course: Our Young Entrepreneurship Startup studies involve a trial year when you can develop business ideas with mentors. If you decide to set up a business, you can use the services of our Business Accelerator unit, which assists you with funding applications, commercialisation and internationalisation,” Määttä explains.

Määttä says foreign students are most welcome to Finland. “There is a wide choice of academic studies available for them. At KAMK alone, we offer five English-taught degrees, the newest one being esports.” KAMK has given rise to many gaming spinoffs. The startups in the Kajaani gaming cluster employ a lot of local talent, making them a source of much pride for the region.

“Valossa is a Finnish startup with roots in the computer science and machine vision labs at the University of Oulu. Founded and based in Oulu since 2015, Valossa develops AI software that recognises video content like a human: seeing, hearing and understanding who and what is in it, and what the video is about.”

“Our content intelligence software makes a comprehensive deep analysis of video content, identifying all persons, visual objects and sounds, recognising speech and profiling the content according to the topics involved. It compiles a summary of the famous people appearing in the video, and makes the results searchable by name,” explains Valossa’s co-founder and CEO Mika Rautiainen. “We are an independent company with video recognition technology that can be deployed in the cloud or on premises.

“Five years from now, we want to be the world’s leading independent video recognition platform,” Rautiainen says.
**Inme, a Turku-based startup founded in 2017, has developed a mobile app for people worried about the impact of stress on their health and wellbeing. The app is used together with a saliva-based self-measurement kit that indicates your cortisol level. Cortisol is known as our stress hormone.**

“Our solution is based on 20 years of know-how in diagnostics research in the Department of Molecular Biotechnology and Diagnostics at the University of Turku,” says Etvi Juntunen, co-founder and CTO of Inme.

**EASY-TO-USE SELF-MEASUREMENT**

Using the stress tracking system is easy. You just take a saliva sample with a measurement strip, slide the strip into a small metering device, take a photo of the meter reading with your smartphone camera, and use Inme’s mobile app to see your current stress level. For long-term stress management, repeat on a regular basis.

“The test is meant for home use, but is also suitable for occupational health clinics, fitness centres and spas.”

**WORKING IN A RENTED LAB**

“We have rented fully equipped laboratory facilities at business hotel Westas, which is run by Turku Technology Properties and is partly owned by the city of Turku. The unique rental concept allows us to focus on product development, without having to invest in lab infrastructure,” Juntunen explains.

Next, Inme plans to develop a saliva-based testosterone level measurement kit for middle-aged men. They are also working on a saliva-based hormonal level tracking kit for menopausal women.

**KOREAN INVESTMENT AND FINNISH FUNDING**

Mobile esports is still a niche market but it has lots of potential, with top-grossing games making up to $2M revenue per day.

In 2016, Critical Force raised a €4M seed investment from big South Korean video game publisher NHN Entertainment, whom they later partnered with. This led to the establishment of a subsidiary in Seoul.

“NHN Entertainment saw the potential of our game especially for the Asian market. They are going to publish a tailored version of it to suit the Asian taste,” Piirainen says.

In 2018, Critical Force raised €5.4M in funding from Business Finland. The funds will be used to develop the company’s technology and organisation further.

“Five years from now, we want to be a recognised and respected brand and a trendsetter for competitive mobile game titles,” Piirainen concludes.
STABLE PLATFORM FOR SCIENTIFIC RESEARCH

My work is profoundly international and the scientific community I personally feel part of is located in many parts of the world.

...for foreign researchers. All scientists and even the support personnel at universities speak fluent English. Most of the bureaucracy can be dealt with online and in English. The everyday conversations at the lab are also in English, which enables integration irrespective of an individual’s background and also provides the staff with good practice in discussing their topics at conferences and writing papers. I specialise in the role of cellular changes in metastatic development of cancer. Recently, I was chosen to lead the oncology team at Finnish pharmaceutical company Orion. Finnish universities have increased their co-operation with business, which provides researchers with access to new forms of funding. The pharmaceutical companies do not do basic research, but they utilize the results of the research done at universities. We are still working on the rules of this co-operation, since the scientists need to publish their results, even if it is not in the interest of the company. The Finnish society is one of the most stable in the world and it functions well. It is an equal society where everyone is offered a good education and health care that is almost free. Even if researchers do not earn top salaries, we still enjoy a good standard of living and a pleasant living environment. Affordable English speaking day care facilities and free international schools are a clear advantage for anyone with children working in Finland. Finland does not have big cities, but if you enjoy nature and small town living, this is a great place to live in. Many of the foreign researchers I persuaded to join my team, have ended up staying for years...
THE LIBRARY IS CALLING!

Modern libraries are like living rooms that provide both experiences and learning. We asked people up and down the country about the best aspect of their local library.

MOSSE WALLÉN, RETIRED JOURNALIST, 67, ÅLAND ISLANDS
“Modern libraries are like living rooms that provide both experiences and learning. We asked people up and down the country about the best aspect of their local library.”

MEERI SÄRKELÄ, SCHOOLGIRL, 12, MÄNTSÄLÄ
“My library is a mobile library which visits my home village of Ohkola every other week. It also drops by my schoolyard and the pupils pop in during the school day.”

MIIA ALHANEN, JOURNALIST, 45, KAARINA
“Our Uusi Kaarina Library is a wonderful, multi-purpose facility. In addition to books, there is a music room, reading corner, art exhibitions and a large hall for events.”

Diana Törnroos, Head of Customer team, 57, Helsinki
“The Käpylä Library provides a feeling of urban community, as well as literature. I love the monthly writer visits and small surprises - last time, I found myself in the middle of a wonderful art exhibition.”

Johanna Kalja, Student, 29, Ivalo
“There’s a great selection here. I borrow books from the Sámi-language section for my child, who speaks Skolt Sámi. There is a good Northm Sámi selection, but there are fewer books in the Skolt Sámi language.”

Street Gallup
By Päivi Leinonen, Helena Forsgård, Tuija Sorjanen, Marina Ahlberg
Photos Päivi Leinonen, Arto Taksala, Anttoni Rovaniemi, Helena Forsgård, Marina Ahlberg and Juha Kauppinen

Ao hel.fi/en

A NEW LANDMARK BUILDING!
In the heart of the city, the new Helsinki Central Library Oodi offers a public space open to all, seven days a week.

Mia Wrede, Psychologist, 32, and her daughter Bodil, 1, Åland Islands
“I live close to the Marihamn Library. There is plenty of room for children. In addition to the children’s section, there is an attractive and quiet storytelling room.”

Oyelowo Oyedayo, Student, 24, Helsinki
“I like the comfort and self-services in the Helsinki University Kumpula Campus Library, which gives me the feeling that I am at home with almost every learning resource I need!”

Terttu Rissanen, Pensioner, 80, Ivalo
“The Ivalo Library has amazingly good service. A pensioner can’t afford many newspapers, so I read them in the library. I’m now going to ask for help with sending a picture by mobile phone. You can also borrow sports equipment here.”

Oyelowo Oyedayo, Student, 24, Helsinki
“I like the comfort and self-services in the Helsinki University Kumpula Campus Library, which gives me the feeling that I am at home with almost every learning resource I need!”

Diana Törnroos, Head of customer team, 57, Helsinki
“The Käpylä Library provides a feeling of urban community, as well as literature. I love the monthly writer visits and small surprises – last time, I found myself in the middle of a wonderful art exhibition.”
BUSY & FREE
What do Finns do in their spare time?

LIFELONG LEARNING
There are a total of 181 adult education centres in Finland, operating across the length and breadth of the country. The centres are open to everyone, regardless of educational background. Every year, more than one in ten Finns attend courses, and the fees remain highly reasonable as they are subsidised by central government and local authorities. Tuition is offered in a wide variety of subjects, including languages, IT, arts and crafts, music, sports, cooking and wellbeing.

FINNISH VOLUNTEERS
In a survey taken in 2017, almost every third Finnish person over the age of 15 had done volunteer work during the past 12 months. The volunteer work may have been collecting money, coaching sports, keeping lonely people company, or participating in any other organised activity. This work was not always organised by registered associations. Men and women participated in volunteer work in equal amounts and with equal frequency.

ESPORTS RISING IN POPULARITY
Young Finns are interested in electronic sports. In a survey conducted in September 2017 that measured the popularity of 63 different sports, only ice hockey was considered more interesting than esports by persons between the ages of 18–29. Other age groups are also interested: 14% of the population indicated an interest in esports.

FINNS, ART AND HANDICRAFTS
Non-degree art subjects are popular among Finnish adult students. Almost every fourth 18–64-year-old student that attended non-degree education in 2017 took part in art education. About 100,000 people studied art subjects as a hobby: 51% music and preforming arts, 33% handicrafts and arts and crafts.

THE PROMISED LAND OF ASSOCIATIONS
In 2017, 54% of the Finnish population over the age of ten participated in the activities of an association. Finns are active citizens in general. Signing citizens’ initiatives or other petitions is common these days, made easier by the internet. In 2017, a quarter of those older than 15 (24%) had signed an initiative or a petition during the past 12 months. Women between the ages of 20–24 (45%) were the most active in signing initiatives or petitions.

Source: Statistics Finland

Source: Kantar TNS Oy, TNS Mind Atlas 2018

Source: Statistics Finland

Source: ePressi/Sponsor Insight

Source: ePressi/Sponsor Insight

Source: Statistics Finland

Source: Statistics Finland

Content of adult education in 2017 not related to work or profession, by gender (18–64-year-old persons taking part in education, excluding students and those doing military service).
Say it loud, say it proud: Finnish expertise in all things Arctic is second to none.

It’s not just the polar bears that are feeling the heat nowadays. Arctic regions are extremely vulnerable ecosystems and require a distinctly delicate touch – along with smart, sustainable solutions. That is not to say that the Arctic doesn’t offer also business potential to go with the snow and ice.

How can eco-consciousness and business thrive together? One obvious key is deploying sustainable, responsible practices. With this in mind, The Arctic Council Expert Group on Black Carbon and Methane (EGBCM) met in Helsinki on 20–21 September 2018. The group’s aim is to raise awareness of climate-warming black carbon and methane emissions and give recommendations on how they can be reduced.

Black carbon particulars and methane gas are powerful climate pollutants, despite their relatively short lifetime in the atmosphere. By reducing their emissions, it is possible to achieve rapid results in the fight against climate change. Black carbon, or soot, has a great impact on the Arctic Region as it accelerates melting.

“Climate change is making a lot of different countries pay attention to Arctic issues,” he adds.

CONTROVERSIAL TREASURE
Obviously, there is also high global interest in the natural resources (oil, gas and minerals) of the Arctic Region. Those resources are becoming more easily available due to shorter winter periods and reduced ice coverage caused by climate change – but, on the other hand, drilling for Arctic fossil-based energy seems like a bad move for the planet.

Sidestepping that issue for a minute, it is clear that also new sea routes – such as the Northeast and Northwest Passages – are becoming viable. Again, year-round navigation in the vulnerable Arctic Region is ripe with both opportunity and risk.

“During the last ten years, we have clearly seen a trend where non-Arctic states and organisations have shown an increased interest towards the Council,” says Söderman.

“Keeping the course steady
Black carbon was only one of the themes on Finland’s agenda, as it assumed the chairmanship of the Arctic Council in 2017. During the two-year stint as chair, Finland is looking to strengthen Arctic cooperation and its continuity right up to the highest political level.
René Söderman, Senior Arctic Official, says that so far, Finland has been successful in meeting the target of improved collaboration – as well as advancing its own priorities: “The Finnish priorities are environmental protection, meteorological cooperation, connectivity and education,” says Söderman, adding that Finland has made progress especially in meteorology.

The Arctic Council Chairmanship rotates among the Arctic states (Finland, Iceland, Russia, Norway, Denmark, Sweden, Canada and the USA).
In addition, there are 40 observers in the Arctic Council, either countries or organisations.

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“It is clear that climate change is making a lot of different countries pay attention to Arctic issues,” he adds.

KNOWLEDGE DRIVEN
By Sami Anteroinen
Photos Kaisa Rautaheimo / Otavamedia, interviewees, companies and iStock
Starkice

Starkice provides intelligent de-icing systems and safe winterisation. “Winterisation” is a term for solutions needed in vessels, platforms and equipment to function efficiently in freezing conditions. The company’s Intelligent De-Icing System (IDS) includes – in addition to the heating element – intelligent software and a control unit. This system brings cost savings, because heating is only activated when it is needed. It also means increased safety because walking and working areas are not slippery, and it frees people from control functions and manual de-icing work.

“Arctic Maritime is our focus. Our solutions improve energy efficiency, operational safety and capability in icy conditions,” says CEO Ilkka Rantanen.

VTT Principal Scientist Jaakko Heinonen agrees that one has to be extremely careful in the North. Finding robust, durable solutions for operating in freezing and fragile climates is no small feat – but Finns have plenty of expertise to draw from. Still, there is much benefit to be gained from increased collaboration, Heinonen points out.

“With this in mind, we’re launching Arctic Operations, a new type of innovation ecosystem, that combines resources of maritime companies, researchers and authorities,” Heinonen explains.

NORTH WIND BLOWING

One potent area could well be Arctic offshore wind parks. In August 2017, the world’s first offshore wind park for icy conditions, Tahkoluoto I, was launched. Tahkoluoto is also Finland’s first offshore wind park built on offshore foundations. “Tahkoluoto is a great example of Finnish know-how in renewable energy facing demanding, Arctic conditions,” Heinonen says, adding that the wind park is likely to lead to other similar breakthroughs. Actually, VTT already has a wind park design portal to facilitate the next generation of offshore parks. The design portal is already used inside the organisation and will be made available to the public in early 2019.

“It is a useful tool for companies when they are considering the scope of their investment and need data for the decision-making process.”

Norsepower

With wind conditions typically stronger in the Arctic region, companies such as Finnish Norsepower are presented with considerable opportunities for growth in the Arctic maritime industry. “Norsepower’s Rotor Sail solution is a modernised version of the Flettner rotor which uses the Magnus effect to harness wind energy into forward propulsion,” explains Tuomas Riski, CEO of Norsepower:

“The technology is fully automated and can deliver fuel savings and emissions reductions for ships sailing in the Arctic – where the environment is more vulnerable,” he says.

Navidium

Navidium is a Finnish Maritime CleanTech company which has a wide range of new, innovative internet-of-things (IoT) products for the maritime industry. Janne Tolonen, Vice President, Business Development IoT, believes that the North holds great potential that has yet to be explored.

“We see great opportunities in the Arctic. The solutions we have developed serve ships performing on the ice in an unprecedented way.”

For example, the company’s unique IoT Trail management system optimises vessel routes and minimises risks in ice conditions.

POLAR PLATFORM

According to the grand vision, viewing Arctic seas as a “multi-platform” for a range of activities (such as renewable energy production, transport, trade, tourism and fishing) means that the role of the Arctic may enjoy a good degree of diversification in the coming years. At the same time, there is a stated need to act responsibly every step of the way.

“A key issue here is how we can build a good foundation for sustainable future business,” Heinonen comments. “While climate change is causing ice to melt and seas to rise, it’s true that there are freakishly cold winters, too. “2011 was a tough ice winter on the Baltic Sea.”

KINE Robot Solutions

KINE Robot Solutions has created innovations that resonate well with the maritime industry. AirNow is an automatic ship remote emissions monitoring service, created to help authorities and ports control the new air pollution rules at sea set by the International Maritime Organization (IMO).

Boxbot is a digital cargo load planning service for ports, terminals and logistics centres. “Ships can use Boxbot to optimise their general cargo packing as a whole, to maximise cargo intake, to minimise ballast water intake, and to minimise fuel consumption per delivered cargo ton mile,” explains Jyrki Vilo from KINE.

FINDING ROBUST, DURABLE SOLUTIONS FOR OPERATING IN FREEZING AND FRAGILE CLIMATES IS NO SMALL FEAT.

- JAAKKO HEINONEN
**DID YOU KNOW?**

• Machine learning is not programmable: it is taught with data. The value you get from it is a function of the quality of the data you feed it.

• Because the intelligence is really just numbers and the architectures relatively simple, it is not truly intelligence at all. Machine learning systems do not really understand. So far.

• Machine learning is a one-way street. You can have a neural network recognise faces, but you cannot ask it to describe any of the faces it knows.

• If you teach a machine learning system two skills, it cannot combine them to create a third skill. There is no autonomy in the systems.

• We are barely scratching the surface with applying machine learning. The revolution is under way, but only starting to gain speed.

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**UNDERSTANDING THE NUTS AND BOLTS OF TECHNOLOGY**

I was fascinated by artificial intelligence during the end of the 80s and spent numerous hours working on Natural Language Processing challenges using a weird and wonderful programming language called Lisp. The effort didn’t really amount to much, but at least I could forever after claim I had worked in the hallowed field of AI.

In 2006, the cybersecurity company I founded back in 1988 started using neural networks to identify malicious applications. Though F-Secure didn’t immediately enjoy much success with it – as often happens when you’re just a little bit too early with a new technology – it was my second brush with AI and my first with machine learning.

Third time lucky? The current renaissance with machine learning took off around 2012, and I continued to feed my fascination with the promise of intelligent machines through books and meetings with researchers on the topic. As chairman of Nokia, I was fortunate to be able to worm my way into the calendars of the movers and shakers of the AI world. I only understood bits and pieces, and initially believed the topic was so difficult that it would take ages to truly comprehend. But I also became frustrated with my discussion partners, some of whom seemed more intent on showing off their own advanced understanding of the topic than explaining what they knew in plain, comprehensible language.

So, I spent some time complaining. Where could I find good material explaining how machine learning works in terms that would speak to anyone who loves to understand how things work?

“MACHINE LEARNING REALLY IS JUST MATH. AND RELATIVELY SIMPLE MATH AT THAT.”

- RISTO SIILASMAA

Then I remembered what being an entrepreneur meant. An entrepreneurial mind does not just complain to others, but always considers fixing the issue oneself. As a longtime CEO and chairman, I’ve gotten used to having things explained to me. Somebody else does the hard work and I can focus on figuring out the right questions.

Sometimes CEOs and chairmen may feel that understanding technology is in some way beneath their role, that it’s enough for them to focus on things like “creating shareholder value”. Alternatively, they may feel that they can’t learn something seemingly complicated and therefore don’t consider trying. Neither one is the entrepreneurial way.

So I thought: Why not study machine learning myself and then explain what I learned to others who are struggling with the same questions? With a quick internet search I found Andrew Ng’s courses on Coursera. I started with Machine Learning and had a lot of fun getting reacquainted with programming. Andrew turned out to be a great teacher who genuinely wants people to learn.

Fun aside, it didn’t take long before I was able to appreciate both the shortcomings and strengths of the current state of machine learning. It turned out to be both much less than I had expected, but at the same time, in many applications, much more powerful and much more fascinating than I had dared hope.

Over time I gained enough understanding to explain what I felt were the most important aspects of machine learning to CEOs, politicians, academics (in other fields and frankly, any decision makers). Inspired by Andrew Ng, I wanted to provide them with intuition on, for instance, why machine learning is so topical right now and why it is dangerous to ignore machine learning.

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Risto Siilasmaa is the Chairman of the Board of Directors of Nokia Corporation and an entrepreneur at heart. In addition to leading Nokia’s recent transformation, he is founder and Chairman of the Board of F-Secure. Risto Siilasmaa is a well-known business angel, investing in several technology startups and serving on their boards.
Singer-songwriter Juice Leskinen was among the first to be selected to the Hall of Fame at the new music museum. Juice was one of the most prominent pop artists in Finland in the late 20th century.

In January 2019, Finland launched a 5th generation mobile network, one of the first countries in the world to do so. The technical leap compared to 4G is massive. 5G will enable up to ten times faster wireless connections to the Internet with various devices, enabling the Internet of Things. The University of Oulu has already started the Academy of Finland’s Flagship programme 6Genesis. According to the university, the future society is going to be “increasingly digitised, hyper-connected and globally data-driven.” The 6G network will be developed via international co-operation.

Finland is known for its technical know-how and has innovative companies in space technology, too. Already thirty of them work in co-operation with the European Space Agency ESA. Solar Foods produces proteins using only air and electricity as the main resources. Its space programme is called New Space Economy. Over the next five years, Business Finland would like to see 5G new companies in Finland connecting to the space business.

In the autumn of 2019, Music Museum Fame will open at Tripla Centre in Pasila, Helsinki. Fame is a museum dedicated to Finnish music, where modern virtual technology enables an entirely new kind of experience. The museum will offer interesting information about music and an opportunity to enjoy and perform music. At the heart of the music museum is an honorary gallery, the Hall of Fame. Major Finnish composers and musicians ranging from Sibelius to Juice Leskinen will be selected annually and added to the gallery. Nightwish became the 11th member of the honorary gallery in October 2018.

UNESCO’s International Mother Language Day is celebrated in Finland, too, on February 21st. Finland has two official languages, Finnish and Swedish. The third most common language in Finland is Russian. The Sámi languages have official status in Finland in the Sámi native region. UNESCO emphasises the role of mother tongues in education and promotes linguistic and cultural diversity and multilingualism. In Finland, learners starting school in 2019 will be the first who will all have access to learning foreign languages starting in Grade 1.

The receiver of the second International Gender Equality Prize will be announced in Tampere in autumn 2019. The prize, established in 2017 in honour of the 100th anniversary of Finland’s independence, was first awarded to Federal Chancellor Angela Merkel of Germany. She chose the Nigerian NGO SOS FEVVF as the cause that received the prize money. The prize is awarded every second year to a person or an organisation that has advanced gender equality in a globally significant way. The prize money has been increased to EUR 300,000. The deadline for nominating candidates was 31 December 2018.

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Remember My Name: Fame

Keep It Short

By Päivi Brink

The World Para Snowboard Championships are held in Finland for the first time from 25.3.–1.4.2019 at Pyhätunturi in Finnish Lapland. The current men’s world champion in cross and banked slalom, Matti Suur-Hamari, will attend the World Cup along with a hundred more of the best snowboarders in the world.

World Para Snowboard Championships at Pyhätunturi

International Gender Equality Prize

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International Gender Equality Prize 2019

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International Gender Equality Prize 2019

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THE POWER OF FORESTS

The saying ‘Finland lives off its forests’ is as true now as it ever was. Many Finns are employed by the forest industry, in addition to which the forest is a living environment, a recreational venue and a source of inspiration.

PETRI MATTUS

Inari

“The forest used to be my playground as a child, now it’s my workplace. I became a reindeer herder like my father and the forest gives me my daily bread. And not only the forest, but the whole northern nature including fells, rivers and lakes. That’s where I get reindeer and game meat, catch fish and pick berries. My family and I can see the effects of climate change, which has made reindeer herding more difficult.”

SANNA VÄHÄMAA

Ilmajoki

“The forest is important to me. Walking or riding in the woods, accompanied by my dog, provides a good counterbalance to my work as a nurse. I have two horses, which I keep in a forest garden surrounded by fir trees a stone’s throw away from home. The forest is just outside my back yard. I am also qualified as a forester by occupation, but I only work there as a hobby nowadays.”

YRJÖ TURUNEN

Kuusamo

“My childhood home was in North Karelia. In addition to farming, my father made a living as a forester. Since the age of ten, I have been involved in lumber work, stripping the bark off trees. The scents made a strong and lasting impression. I do forestry work every year. It’s great to follow trees growing from the nursery stage. Forests are also ideal for recreation; I do a lot of hiking.”

GERRY MACKEN

Turku

“Finnish forests to me mean peace and quiet, being able to get away from the usual busyness of everyday life. Before I moved to Finland, I had always lived in towns and cities. Here in Turku I am never very far from trees and forests. That means a lot to me. Even when I am not walking in the forest, I can see trees in the distance, it gives a sense of their grandeur.”

CHEUK LAI

Helsinki

“I had already heard about the Finnish forests before I came to Finland. The trees look healthy and tall. I have been in the forest only once this autumn and I have been surprised by the beauty of the leaves surrounding the forests. The air is refreshing and the temperature perfect. The Hong Kong forests cannot compare with the Finnish ones because we do not have ‘real’ forests; only countrysides with many trees. There are fewer trees as we need more land for housing. Thus, I really like the nature in Finland.”

32 | THE SOCIAL CONTEXT

ENJOY PURE, NATURAL FLAVOURS

In Finland, people can enjoy the natural environment without the permission of a landlord, i.e. they can roam in forests and around lakes and rivers on foot, horseback or by boat, can camp out in the wild for short periods, and pick delicious berries and mushrooms. This is referred to as ‘Everyman’s right.’

ymparisto.fi/en-us/nature/everymans_rights

CULINARY PLEASURES

Gastronomy is trending strongly in Finland. Food innovators combine Finland’s culinary tradition with an international, urban style. The focus is on local food and ecological values.
AN OASIS OF GOOD FOOD AND FLAVORFUL DRINKS
Just a stone’s throw away from Kastelholm, a stately medieval castle on the shores of the Åland Islands, you can find Smakbyn, an inspiring place in the archipelago, where you can enjoy a good meal and refreshing drinks made of local ingredients. You can also take part in cooking classes or visit the local distillery.

ORGANIC PRODUCTS DIRECT FROM THE PRODUCER
Almost every city or town has a market where small producers sell freshly baked products, berries, root vegetables and fish. Younger sellers, in particular, speak English and will be happy to tell you about their products. You can identify Finnish products by the words “suomalainen” or “kotimainen.”

SEE AND TASTE THE LAPLAND WILDERNESS
The Kitchen Sky restaurant offers wonderful views and food inspired by the Lapland wilderness, from the top of the Ounasvaa Fell. The menu combines northern purity, frost, sun and soundscapes into a trendy package.

SMAKU INTRODUCES LOCAL TASTES OF PORVOO
Smaku is a food festival organised in the city of Porvoo, east of Helsinki. At Smaku you can taste signature dishes from different local restaurants in the form of small treats. Each restaurant creates a tasting version of at least one appetiser, main course or dessert, and visitors can vote for the best dish. The festival culminates in a food feast at the Porvoo Art Factory on 24 August. Smaku 12–24 August.

WARM-HEARTED SERVICE
Kaskis, which was chosen as restaurant of the year in 2018, is located in Turku. Kaskis specialises in organic and local food featuring many plants found in the wild. Some are gathered by the chefs themselves.

TAMPERE’S OWN TRIBUTE TO GOOD FOOD
Tamperrada – inspired by the Tamborrada Festival in Spain – is Finland’s biggest food festival. Over five days, restaurants in the Tampere region serve delicious local versions of small Spanish snacks called pintxos. In 2019, Tamperrada takes place from 19–23 August.
**FEEL AT HOME IN THE BEAUTIFUL ARCHIPELAGO**

Farmers Café (Grandmother’s Café) is a picturesque summer café on the island of Lonna, which is an attraction in itself, but it also happens to have the best summer restaurants in Helsinki. The island can be reached by ferry, which will also take you to the island fortress of Suomenlinna, from May to September.

farmerscafe.fi/en

**FROM WASTE TO FOOD**

Restaurant Loop in Helsinki produces high-quality vegetarian dishes from left-over raw materials collected from merchants and producers. Loop donates 70% of the retrieved food to charity. The restaurant also helps unemployed young persons and immigrants to enter working life. Loop serves lunch every weekday and brunch on weekends.

ravintolaloop.fi

**LOCAL FOOD FROM A WISE OLD OWL**

The Pöllöwaari (Old Owl) restaurant in Jyväskylä offers lovingly prepared menus and à la carte dishes made from top-quality, seasonal ingredients. The restaurant is located in the Boutique Hotel Yöpuu. All 26 rooms in the hotel are uniquely decorated.

ravintolapollowaari.fi/en/1/ravintolapollowaari

**EXPERIENCE FOOD, ART AND DESIGN**

The Food & Art Festival is held in the beautiful surroundings of Ruissalo in Turku, Western Finland. The festival is a multi-sensory event where art, design and gourmet dishes meet in a intimate atmosphere. Visiting chefs from around the world conjure up fine dishes for everyone to enjoy. Food & Art on 5–7 September.

foodandart.fi/in-english

**HISTORY AND GASTRONOMY**

Once a base for clearing and storing naval mines, the island of Lonna is an attraction in itself, but it also happens to have the best summer restaurants in Helsinki. The island can be reached by ferry, which will also take you to the island fortress of Suomenlinna, from May to September.

 GREEN REVOLT

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foodandart.fi/in-english

**ENJOY FOOD IN HISTORICAL SURROUNDINGS**

Fiskars Village, founded in the 17th century, is known today as a centre of Finnish art and design. The village has a strong culinary tradition with a varied local and organic cuisine. Fiskars Brewery produces artisan beers to be enjoyed with or without food.

fiskarsvillage.fi/en

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INTO THE WILD

The northern natural environment invites us to test our limits. The products on this spread are designed to withstand the toughest conditions; durability is the new hallmark of style.
World Wide Fund for Nature Finland’s live cameras share images of wonderful but rare Finnish species.
Wildlive is intended to bring nature closer to people and inspire viewers to participate in nature conservation. Thanks to active conservation work, the Saimaa ringed seal population has increased, now numbering approximately 390 animals.