INNOVATION MADE IN EUROPE









European Institute of Innovation & Technology

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Welcome to the EIT Awards 2019!

You are about to embark on a fantastic journey to celebrate Europe's best graduates, entrepreneurs and innovators. Our EIT Awards nominees, transforming ideas into unique technologies, contribute to Europe's efforts to find solutions to pressing global challenges. It is the EIT's mission to power these innovators throughout the entire process, from idea to product.

As Europe's largest innovation community, the EIT continues to drive Europe's ability to come up with innovative new products and services. Now, more than ever, it is paramount to kindle the entrepreneurial spirit of younger generations, tomorrow's innovators. That is what the EIT CHANGE Award represents recognising the best graduates from EIT education programmes. The EIT Innovators Award highlights teams from our Innovation Communities that have developed high-impact products and services for our sustainable future. The **EIT Venture Award**, on the other hand, acknowledges start-ups and scale-ups that have benefited from business acceleration and creation support by the EIT Community. And we also put the spotlight on inspiring female entrepreneurs, thanks to the **EIT Woman Award** that was launched last year.



Dirk Jan van den Berg Chairman of the EIT Governing Board Don't forget: everyone has the opportunity to vote for their favourite innovation in the **EIT Public Award**. Simply visit innoveit.eu to choose from the 19 nominees whose products and services are driving Europe's ability to innovate and create jobs and growth for Europe.

In this brochure, you will discover the talented people who, each day, lay a greener, healthier, and more sustainable path for Europe. Their ideas cover a lot of ground: saving energy and producing it sustainably; improving food production and reducing waste; providing new and better methods of healthcare; making transport faster, cleaner, and safer; advancing robotics and automation; improving logistics and enabling civil society; and introducing the next generation of waste treatment.

Let yourselves to be amazed by their pure ingenuity and creativity.

Let the innovation journey begin!



Martin Kern EIT Director



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Check out how our nominees impact your daily life!





Eirik Eide Pettersen

CTO & Co-founder of Seaborg Technologies

Main product: Compact Molten Salt Reactor (CMSR)

Aim: To develop a carbon-free, cheaper-than-coal and reliable source of energy to combat climate change and energy poverty



Making nuclear energy inexpensive, sustainable and safe

Q The project

The idea

Seaborg is developing next-generation molten salt reactors that harbour the benefits of conventional nuclear power while addressing its downsides by relying on the law of physics and chemistry rather than engineered systems. It is cost-competitive with fossil fuels, produces dispatchable lowcarbon energy, and is inherently safe.

The massive exposure we got thanks to the EIT provided us with a steady stream of top energy industry talent applying for jobs.

Inspiration

While our society is already emitting too much greenhouse gas, the need for power increases by the day. I want to be part of the solution by providing an affordable, carbonfree source of energy. Unique selling points

Relying on molten salt fuel changes the paradigm of nuclear safety from safetyby-engineering to safety-by-physics. Most importantly, the fluoride fuel salt chemically binds radioactive materials and thus eliminates the radioactivity dispersion mechanisms that have caused past nuclear accidents. The result is a simpler nuclear reactor that is more affordable than the conventional technology, and that can out-compete and displace fossil fuels.

Societal impact

Seaborg might improve the lives of billions by powering the growth of developing nations in an environmentally, socially and economically sustainable way.

Supported by:

InnoEnergy

EIT Community support

Energy (EMINE)

EIT labelled programme:

European Master in Nuclear

EIT InnoEnergy provided us with essential knowledge about nuclear energy. They also gave us extensive exposure and press coverage, and now provides us with a steady stream of top talent from the energy industry.

The nominee

Entrepreneurial spirit

I have always wanted to create a positive change in the world, but not specifically as an entrepreneur. However, when Seaborg came about, I knew it was a unique opportunity, so how could I say no?

Rewarding moments

The acknowledgement from Forbes Magazine and the resulting widespread attention is a moment I will never forget. To be the first ever recipient of a public grant for nuclear power in Denmark in decades was another incredible milestone.

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Next-generation nuclear

Challenge:

power



Prizes:

Cátedra Argos Award, 2017 IAEA Young Generation Innovation Challenge Winner, 2019 Forbes 30 under 30 Europe – Manufacturing and Industry







Kristaps Krafte

CEO of SIA Vigobot

Main product: Vigo

Aim: To radically improve access for post-stroke patients to qualitative rehabilitation, thus enabling faster and more effective recovery



Enhancing post-stroke patients' quality of life through digital therapy

Q The project

The idea

We develop digital therapy for stroke recovery that provides personalised treatment on demand, through a software application. Unlike traditional rehabilitation specialists, Vigo is available 24/7, the help lasts as long as the patients need it, and costs 10 times less than current alternatives.

The EIT Community and its alumni communities constantly provide young entrepreneurs and start-ups with unique opportunities.

Inspiration

After two years of stroke care research, I decided to help by addressing the shortage of human resources in healthcare and improving access to high-quality rehabilitation.

Unique selling points

Relying on artificial intelligence allows the provision of personalised care with minimal involvement from human rehabilitation experts. Also, we use evidence-based therapies and tools that focus on stimulating patients' motivation, such as nudges, gamification and performance tracking.



Supported by:

EIT labelled programme: Master in Innovation and Health Care

Challenge: High quality, accessible rehabilitation for post-stroke patients

Societal impact

Only 10 per cent of all stroke patients recover completely because standard recuperation processes are often late or low-quality. Through timely and optimal rehabilitation, Vigo has the potential to help millions of stroke survivors and their families regain quality of life.

EIT Community support

EIT Health and its Alumni Network helped us through pitch training, workshops and access to conferences.

The nominee

Entrepreneurial spirit

I have always been curious and wanted to do good. Becoming an entrepreneur in this field was therefore the right path for me.

Rewarding moments

Getting some of the best experts on board was definitely a defining validation. Other than that, I'll always remember the first time stroke survivors used Vigo and said that they had been waiting for something like that.

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Prizes:

Grand Prize winner at a Deep Tech Atelier competition in Latvia, Innostars Awards Finalist







Michael Dittel

CEO of LeafTech GmbH

Main product: LeafTech

Aim: To anticipate people's needs in indoor environments by predicting upcoming energy and comfort demands, enabling the improvement of building systems

LEAFTECH



Predicting buildings' energy needs to enhance smart home systems

O The project

The idea

We examine a building and develop a digital twin to generate a thermal building model. By feeding that model with weather insights, energy usage patterns and user behaviour, we anticipate future energy and comfort demands. The analytic results transform smart home and building automation systems from reactive to proactive control.

The EIT Climate-KIC education team and network provides a perfect environment without any bias or pressure, which allows ideas and yourself to be tested.

Inspiration

During EIT Climate-KIC's summer school, our team developed advanced shading technologies based on organic photovoltaic module. We kept working on the concept first but soon recognised the market demand for smart building control strategies.



Unique selling points

We combine Building Information Modelling, 3D-City models and satellite scans to setup our digital twin. The intel we collect is assembled and merged in an automated process and linked to user data and weather APIs. Our processes are designed in the leanest way possible to keep our services fast and efficient without compromising on quality data.

Societal impact

People spend 93 per cent of their time inside buildings. It is therefore not surprising that these consume 40 per cent of global energy production. Our solution helps improve quality of life while simultaneously reducing energy consumption and CO₂ emissions.

EIT Community support

EIT labelled programme:

Master in Environomical

Pathways for Sustainable

Energy Systems

We benefited from substantial support from the EIT Climate-KIC Accelerator. We benefit from the funding, the offered work space, our peers, and the expert coaching. We were even able to cooperate with other start-ups. In addition, we exchange ideas with the network and are active members of the EIT Climate-KIC community.

The nominee

Entrepreneurial spirit

As a creative person with a passion for engineering and innovation, I never knew where to put my ideas and energy. The EIT Climate-KIC Master label degree showed me the right path. Merging science and market demands with the desire to mitigate climate change matched my attitude and my ambitions. So I somehow became an entrepreneur by chance and without regrets.

Rewarding moments

The most rewarding moment in my entrepreneurial career was the moment when we delivered our product for the first time. We received positive feedback from the client and knew that we were now going to sign a partnership with a major player from the industry. Especially in product innovation, you are often uncertain if the value you offer is the real deal. But at that time we finally knew we were on the right track and we felt we were actually creating value!

Challenge: Energy efficiency for buildings



Prizes:

BMWi's award "Gründerwettbewerb - Digitale Innovationen", Top 50 Proptech Startups in Europe





The **EIT Innovators Award** recognises teams from our Innovation Communities that develop high-impact products and services for a sustainable future.

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Christian **Binder**

Director, Process Development Outotec GmbH

Main product: Flexible energy input for kaolin calcination

Aim: To improve kaolin calcination control and reduce its carbon footprint, while adding more flexibility to the process

Outotec



Sustainable kaolin transformation

The project

The idea

Calcined kaolin is an essential industrial mineral used, for example, as a component in paints, coatings, inks, etc. We developed a combined process of calcination and gasification for its production, involving innovative algorithms through mine and lab data. This enables us to dramatically decrease the overall carbon footprint of the operation.

We benefited from the EIT's support from day one. Nothing would have been possible without them.

Inspiration

As actors in the mineral processing industry, it is our duty to ensure resources are used and transformed as sustainably as possible.

Unique selling points

Our long-standing experience in calcination and gasification provides us with lots of valuable data that we can rely on to come up with such production plants.

Societal impact

As its use widens, this process will contribute to curbing the kaolin industry's environmental footprint.



Supported by: eit

RawMaterials

EIT Community support

Generated funding:

EUR 1 600 000

The EIT enhanced our project exposure exponentially, namely through advertising us across the field and facilitating networking with key stakeholders.

Challenge:

Sustainable mineral transformation

The nominee

The beginning

I have always believed in striving for more sustainability in the minerals industry. This project was the perfect opportunity to make it real!

Partnerships & Teamwork

Predict looked at data and algorithms integration while TU Delft assessed the online product quality. Aalto University refined the calciner control and Outotec analysed the diversified energy input and its influence on design and operation. The University of Exeter optimised the calciner internals and Imerys carried out the production site demonstration.

Rewarding moments

I'll always remember when we gathered all signatures in the project agreement and when we finally demonstrated that our solution works.





Partners:

Outotec Ovi, Outotec GmbH&Co. KG, Imerys, Predict, Aalto University, TU Delft, University of Exeter





Luca Giovannini

Information Systems Analyst at Dedagroup Public Services

Main product: SMASH

Aim: Translating mobility data into meaningful visualised journeys to create more sustainable mobility in cities





Improving sustainable mobility through meaningful visualised journeys

The project

The idea

By creating mobility data visualisations and dashboards, web-based platform, SMASH, enables enhanced spatial data analysis and the supporting of decisions of local authorities and private mobility companies. This, in turn, allows the creation of more sustainable mobility.

*C*Every partner represents a meaningful contribution to a project. On its own, a single company would not be able to accomplish it.

Inspiration

One of the major challenges in climate change mitigation is the timely access, integration and interpretation of transportrelated data. This can underpin public sustainable environmental policies as well as private investment to reduce greenhouse gas in the transport sector.

Supported by:



Unique selling points

SMASH is a cross-functional project that enables a holistic point of view of a specific city considering all its mobility aspects, environmental indicators, potential changes in citizens' behaviour, and guaranteed interoperability.

Societal impact

SMASH contributes to a general sensitisation to move in a more sustainable way and to enhance ecofriendliness, for example, through improved behavioural change campaigns increasing the number of cyclists and pedestrians. Ultimately, the goal of the whole project is to reduce CO₂ emissions and other pollutants.

EIT Community support

EIT Climate-KIC co-funded our pilot projects, which convinced all the engaged parties to continue with the co-creation of SMASH, which continues to be supported by the EIT Community.

The nominee

The beginning

Start year:

2015

My studies focused on mobility and its behaviour: mobility patterns, traffic congestion formation, ... I still love working with huge amounts of data and I also love riding my bike. SMASH allows me to do the former while creating better conditions for the latter!

Partnerships & Teamwork

SMASH does not only require economic or technical resources, but also know-how. We therefore work together with sales, academic and dissemination partners, as well as cycling project partners and associations.

Rewarding moments

When we show cities and mobility agencies what we have done with their own data, and their reaction is "Wow, these insights are cool!"

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Mobility data visualisation

Challenge:



Dedagroup, Fondazione Bruno Kessler, AESS, BetterPoints, Forum Virium Helsinki







Artificial intelligence to improve type 1 diabetes management for children

Marc Julien

Co-CEO Diabeloop SA

Main product: D4Kids

Aim: To develop an automated type 1 diabetes management solution specifically designed for children





The project

The idea

We have developed an automated type 1 diabetes management system specifically for children, taking into account their particular physiology and the fact that they rely completely on adult caregivers. Our personalised solution acts as a sort of artificial pancreas, enabling the whole family to live their lives to the fullest while keeping the disease under control.

*(*Partners are essential as nobody has the skills to face all the challenges of building innovative products and entering the market on their own.

Inspiration

People with type 1 diabetes have to take dozens of therapeutic decisions every day and night to avoid major health issues. We want to help them achieve better glycemic control and relieve them as much as possible of the burden of the disease.



Unique selling points

D4Kids will be unique and the most effective closed-loop system automating glycemia management approved for children.

Societal impact

The impact is threefold: first, our solution helps patients better manage their disease and life. Second, healthcare costs related to the hospitalisation of children with type 1 diabetes will decrease. Finally, we create highly gualified jobs in the process.

EIT Community support

The EIT Community has helped us foster cross-border cooperation and facilitated the open innovation process in a major wav.

The nominee

Generated funding:

EUR 16 000 000

The beginning

I have always been interested in medicine and I want to further human progress with the power of modern business. Joining Diabeloop was an opportunity that made perfect sense.

Challenge:

Partnerships & Teamwork

Diabeloop is the project leader and responsible for the development of the algorithms and regulatory questions with the help of the technology research institute CEA-LETI. The research center for diabetes treatment CERITD coordinated the clinical trials carried out by the Belgian university, KU Leuven. Profil defined the market access strategy.

Rewarding moments

During the Focus Groups with children, we were amazed by their spontaneity, creativity, and enthusiasm. The first clinical results and feedback of the children and parents are extremely promising.

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Rudolf Sollacher

Senior Research Scientist at Siemens AG

Main product: Digital Twin Management

Aim: To make food production more transparent and sustainable by giving an overview of the production and logistic processes through digitalisation

SIEMENS



A digital food passport to empower consumers

Q The project

The idea

The digital twin management system operates on MindSphere, a cloud-based, open IoT system of Siemens. A wide variety of data are bound together in the cloud thanks to a configurable data model, to create a digital twin of the food product and its value chain. Apps allow for data monitoring and sharing with partners, as well as tracking and tracing.

Down the road, the ambition is to drastically reduce waste and increase sustainability across the whole food production world.

Inspiration

We wanted to enhance food value chain transparency and sustainability. That's how our platform harbouring digital twins of products and their complete production journey came about.

Unique selling points

Our structured data model simplifies monitoring and analysis. Also, data privacy is maintained even when sharing elements with a partner. Third, the track and trace app allows the product to be followed along the entire value chain.

Societal impact

Having a transparent digital food passport at their disposal reassures consumers and is a prerequisite for more demand-driven and resource-efficient production.

EIT Community support

We benefited from lots of useful insights thanks to EIT Food's partners. Workshops and events organised together with EIT Food also facilitated the refining of the solution.

Supported by:

The nominee

Generated funding:

EUR 19 700 000

The beginning

At the end of 2015, Siemens was asked to join the consortium applying to form what was to become EIT Food. I accepted the role of coordinating our contribution because this Innovation Community addresses important challenges for today's society.

Partnerships & Teamwork

As technology provider, it was important for Siemens to partner with food producers Strauss Group and Givaudan to implement a proof of concept. Fraunhofer offered expertise in food production-related research. Technical University Munich set up the digital twin data mode according to relevant standards and norms.

Rewarding moments

It was amazing to see how the uncovered information enabled Strauss to pinpoint weak spots in their production cycle.

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Food value chain transparency

Challenge:

Partners: Strauss Group, Givaudan, Fraunhofer, Technical University Munich









Tim Houter

Co-founder & CEO Hardt Hyperloop

Main product: The hyperloop

Aim: To create a terrestrial transportation method faster than airplanes and greener than electric trains



 \mathbf{f}

hardthyperloop.com

@HardtGlobal

Hardt Hyperloop Tim Houter

hardtglobal

Towards sustainable high-speed transportation

C . . .

The hyperloop is an energy efficient transportation network providing commutable trip times for short and long distances. It is cheaper to build and maintain than high-speed rail and its low-pressure tubes make it safer, more reliable, and better for the environment.

If you want to go fast, go alone. If you want to go far, go together.

Inspiration

The project

The idea

Ο

Hearing Elon Musk talk about his hyperloop concept influenced me to a large extent. I truly believe in the necessity of finding sustainable alternatives to the aviation industry.

Unique selling points

In addition to being faster than aircraft and more energy efficient than trains, the hyperloop is cost-effective and safe. Societal impact

Climate trends call for a breakthrough in transportation sustainability. Hyperloop will answer that call and enable people to easily reach far-flung regions. Basically, there will be a metro network on a global scale.

EIT Community support

The EIT introduced us to potential partners and provided us with essential funding!

The nominee

Generated funding:

EUR 2 500 000

The beginning

After launching the hyperloop concept, Elon Musk started a competition for student teams to support the development of functional prototypes. Hardt Hyperloop participated and won the Innovation Award and the Design & Performance Award.

Partnerships & Teamwork

We collaborate with Tata Steel to develop the tube components of the track for the hyperloop test facility, while the construction-services company, BAM Infra Rail, engineers its foundations. IHC SAS - Hytop is in charge of developing equipment that will be used for the hyperloop underground implementation.

Rewarding moments

We definitely enjoyed the concept presentation of the high-speed hyperloop test facility, given together with all partners.



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Next-generation sustainable

Challenge:

transportation



Partners:

Tata Steel Ijmuiden B.V., BAM Infra Rail B.V., IHC Mining B.V., Deutsche Bahn GmbH









David Pistoni Pérez

Co-founder & CEO Zeleros

Main product: Zeleros hyperloop

Aim: To design new transportation technologies enabling a more sustainable way to carry people and goods



	zeleros.com
Ć	@zeleros
Í	Zeleros Hyperloop
Ć	zelerostech

Enabling sustainable and efficient transportation worldwide

) The project

The idea

We are developing a hyperloop-inspired transportation system where capsules travel at 1 000 km/h inside low-pressure tubes. It combines the speed of a plane, the convenience of a train, and the frequency of an underground system. All while being more energy efficient than current travel methods and free of direct emissions.

We cannot negate the obvious: climate change is mainly caused by human action and we must act now to mitigate its effects.

Inspiration

After analysing the transportation industry, several elements became clear: aviation is among the most ineffective methods of transport for medium distances, railway offers low flexibility, and magnetically levitated systems have high infrastructure costs due to their complex functioning. That's how Zeleros came about.

Unique selling points

By minimizing the use of linear motors with in-vehicle technologies, Zeleros reduces infrastructure costs. Also, it enables operation at higher tube pressure which drastically facilitates maintenance procedures, while improving passenger safety.

Societal impact

The transportation sector becoming increasingly important can be directly linked to the rise in infrastructure congestion, pollution and oil dependence. Our solution brings an answer to all these issues and much more.



Supported by:

Venture Development

Start year:

2016

We are now focusing on the two key systems of the vehicle: propulsion and attractive levitation. These are crucial to defining the infrastructure design that needs to be kept as simple as possible for future scalability and affordability.

EIT Community support

The EIT is the perfect bridge to leverage our disruptive innovation project at European level.

) The nominee

The beginning

In 2015, our CTO, Daniel, heard about a competition organised by Elon Musk to design hyperloop systems. We took the challenge and won the Top Design and Best Propulsion System Awards. Then we created Zeleros to turn our concepts into reality.

Rewarding moments

I'll never forget the moment I saw our first hyperloop prototype move at SpaceX's competition. It was assembled under extreme conditions and we shipped it just in time for the contest. I started crying when I heard we were among the top ten teams worldwide.

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Challenge: The future of sustainable transportation



Generated funding:





Matthew Dickson

Technical Project Manager CorPower Ocean

Main product: CorPower Ocean Wave Energy Converter

Aim: To develop leading Wave Energy Converter (WEC) technology and provide a clean, reliable and sustainable renewable energy source



(in)

(f)



Corpower Ocean AB

CorPower

Sustainable and cost-competitive ocean wave energy

The project

The idea

We are developing a unique converter technology to efficiently and sustainably harvest wave energy, thus revolutionising the world of wave renewable energy.

Copportunities to present a subject you're passionate about to an audience as eager as you to move things forward, should not be missed.

Inspiration

The ocean is one of the largest untapped renewable energy sources and the world's largest natural battery. Inspired by the pumping principle of the heart, and after 30 years of research, we wanted to contribute to a clean-energy future and tap into the vast energy potential stored in our oceans.

Unique selling points

The WEC addresses the key challenges of efficient wave energy harvesting in a unique way. We have developed a novel and adanced Power Take Off (PTO) system which enables efficient energy production with high natural frequency and a lightweight design. Additionally, we are able to address the challenge of ocean survivability by utilising the same PTO system to effectively make the device transparent to large incoming, and potentially damaging, waves.

Societal impact

Wave energy aligns perfectly with the general desire to decarbonise our society with a market potential to displace 0.8 to 1.6 Gigatons of CO_2 every year. Also, it allows diversification of the energy production sector and creates lots of jobs, both qualified and unqualified in multiple deployment regions.

Venture Development

After a successful half-scale WEC deployment in 2018, our goal is now to introduce certified and warranted fullscale WEC products on the market by the



end of 2023. We have also signed a strategic collaboration agreement with a project developer focusing on the large scale, commercial rollout of wave energy arrays.

Generated funding:

EUR 12 600 000

EIT Community support

Start year:

2012

People from EIT InnoEnergy were the ones who first believed in our product and were ready to actually put money into it, thus facilitating attracting other investors. We also received valuable business advice and continue to keep EIT InnoEnergy upto date with our latest developments.

) The nominee

The beginning

I have always wanted to combine my passion for the ocean with my engineering career. So, after I graduated in mechanical engineering, spent several years working in the offshore energy sector in Scotland and gained my energineering chartership, wave power engineering represented the perfect opportunity and challenge.

Rewarding moments

The most rewarding moment of my career so far has been to present our EU-funded Waveboost project at the European Commission in Brussels earlier this year. I enjoyed how engaged the audience was during the presentation and the questions at the end showed participants real understanding, interest and knowledge of the ocean energy sector. **Challenge:** Renewable wave energy









Max Sieghold

Co-founder & CFO Sleepiz AG

Main product: Sleepiz

Aim: To enable the diagnosis of sleep disorders at the patient's home without cables



sleepiz.com

Making sleep disorders diagnosis possible from home

The project

The idea

Diagnosing sleep disorders today requires a patient to spend the night at a hospital while attached to lots of cables and being monitored by a technician. Using very high frequency technology and artificial intelligence to interpret sleep patterns, we developed a unique solution that enables the patient's sleep to be monitored wirelessly at home.

Control Sleepiz wants to enable healthier lives for European citizens and this would not be possible without the EIT's support.

Inspiration

Breathing is the only vital sign that we can actually control, and it offers lots of insights into a person's health, especially during sleep. However, long-term and accurate monitoring in a comfortable manner for the patient has been missing until now.



Besides improving patient comfort, diagnosing in the most natural sleep environment offers far more reliable and long-term insights into the condition. Also, this process reduces the workload of physicians as they focus on the analysis of the data. Finally, as everything happens at home, there is no need for hospital beds to screen people, thereby drastically reducing waiting lists.

Societal impact

Sleep apnea is a sleep disorder in which breathing repeatedly stops and starts again. More than one billion people suffer from it worldwide and only 20 per cent are diagnosed. Untreated sleep apnea can lead to heart failure, diabetes, strokes, depression, and more. This represents an estimated annual economic burden of EUR 335 billion in the EU alone.

Supported by:

Venture Development

Start year:

2018

Sleepiz is in its first stages of fundraising and has already developed its industrial version of the product. The next step is to conduct clinical trials to launch a first certified device on the market in the beginning of 2020.

Generated funding:

EUR 1 800 000

EIT Community support

The EIT provided Sleepiz with visibility among the medical community. It strengthened our network and facilitated the fundraising process.

) The nominee

The beginning

Enabling better and healthier lives through technological innovation has always inspired me!

Rewarding moments

Every time I see our amazingly dedicated team working together towards this common goal, I genuinely feel thankful.

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Challenge: Sleep disorders diagnosis







Piotr Wnukowski

Vice-president & CTO at NapiFeryn BioTech

Main product: Raptein

Aim: To ease global food demand with new edible plant proteins extracted from oilseeds



(in)

napiferyn.pl

NapiFeryn BioTech

Tackling global food demand by isolating proteins from oilseeds

) The project

The idea

To ease global food demand, NapiFeryn BioTech developed a technology to extract, purify and isolate proteins derived from oilseeds to be used in food, thus enabling a more sustainable food supply chain.

Plants are a vital part of our environment.
They not only generate oxygen, but they are also a great food source.

Inspiration

One of the most challenging world problems is the current food production crisis. We wanted to come up with a technical solution to tackle this issue.

Unique selling points

Raptein offers a fully innovative processing route that leads to new, eco-friendly products brought about in an economically competitive way.



Societal impact

The technology offers healthy and nutritious food produced in a green way. By converting animal feed to human food, we ease the burden on the environment and sustain animal life. All this while providing the most important food ingredient for humanity: proteins.

Venture Development

We are now about to prove the maturity of our technology in the industrial environment. The following step is to design the commercial production facility based on our technology. In a couple of years, we will also receive our first revenues following our very first licence, and this will turn us into a cash-flow positive company.

EIT Community support

After our partners encouraged us, we decided to join the EIT Community. They enlarge our network by matching us with experts, prospective partners and investors.

Generated funding:

EUR 6 000 000

) The nominee

Start year:

2014

The beginning

While working for a programme related to global food supply challenges, I searched for new sources of edible proteins derived from plants, and technologies to extract and purify exactly these proteins. A few years later, I came across a new solution that separates complex material such as oilseeds. We built a prototype machine and tested it in our garage.

Rewarding moments

When we officially reached a higher level of technology readiness, we knew we were doing great. This was confirmed by the approval of three different patents we applied for.

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Challenge: Converting animal feed to human food







Tommi Tikkanen

Robotics Engineer & Team Leader at Gim Oy

Main product: GimNavi

Aim: To enable a better quality of life with autonomous, safe and zero-emission mobile machinery





Autonomous, safe and green mobile machinery

Unique selling points

tracking, and fleet control.

Societal impact

Our navigation and vehicle control works

conditions, allowing full-time operation.

software enables a complete solution,

including navigation, obstacle avoidance,

in all environments and all weather

Additionally, our modular full stack

Citizens benefit from our project

in different ways: general safety is

revenues and profitability increased.

enhanced, new and more exciting jobs are created, productivity improved, and

O The project

The idea

We provide all-in software to automate different machines and vehicles for other manufacturers. We typically start with an integration project, where our software and navigation sensors are installed on the vehicles or applications of the client.

With a positive attitude towards everyone's ideas and empowering employees to do what motivates them, we would all get much further.

Inspiration

We believe that robotisation is the next big technology leap after telecommunications and the internet. Self-driving electric machines and cars will minimise emissions, liberate people from less challenging tasks, and offer a much better service level.

Supported by:



Venture Development

Start year:

2014

We have always been financed purely from our own revenues. Last year, we achieved more than EUR 1 million in sales and our software product generated the first license fees so that our customers could start to produce. The next step is to find an investor to boost our development and international sales.

EIT Community support

The EIT provided us with an extensive network, structural support, and introduced us to other interesting projects in robotics.

) The nominee

The beginning

As a playful person, I always liked to experiment and see how my code could move physical things. I also knew that robotics would be an increasingly hot topic, so I focused my studies on this subject. Then GIM fully matched my personal interests.

Rewarding moments

Being involved in recruiting many talented people is extremely rewarding. When I am able to help and see them grow as engineers, I know we are doing a great job.

Generated funding: Self-financed based on revenues



Challenge: Mobile machinery automation









Anastasia Hofmann

Co-founder KITRO SA

Main product: KITRO R5

Aim: To create a global standard to measure food waste and bring the value of food back to the spotlight





Transforming food waste management

O The project

The idea

KITRO provides commercial kitchens with a fully automated food waste management system to quantify and analyse food going into the garbage can. This enables chefs and managers to reduce food waste and operating costs based on accurate, datadriven insights.

More female role models might accelerate a shift towards gender diversity in entrepreneurship.

Inspiration

Two-thirds of all food thrown away is edible, while one in nine people worldwide don't have enough to eat. On top of that, the detrimental effect on the environment is massive. We wanted to play our part in putting an end to it.

Unique selling points

As opposed to existing solutions, KITRO is fully automated with a zero-transaction time, as it requires no manual input from users. This removes human error and allows users to focus on the core business. Also, users can save up to 8 per cent of their food costs and improve their reputation by communicating their efforts externally.

Societal impact

Drastically reducing food waste will have a huge environmental impact. As KITRO's use becomes more widespread in commercial kitchens, private households will also pay more attention and help achieve a "minimal food waste" society.

Supported by: (eit) Climate-KIC 🥚

Generated funding: EUR 800 000

Challenge: Food waste management

EIT Community support

Without the EIT, we would be nowhere today. Their coaching and financial support really enabled us to take off.

Overcoming adversity

Due to our lack of technological background, it was challenging to make sure we hired the right person for the position of CTO. We sought advice from trusted engineers and professors to find the perfect match. Other than that, being female founders was never much of an issue. Actually, it even made PR and getting media attention easier.

The nominee

The beginning

Working in the food industry myself, I had a wake-up call regarding how common food waste is and its disastrous impact. When discussing this issue with my co-founder Naomi, this naturally led us to the idea of KITRO, as it combines sustainability with the food and beverage industry.

Rewarding moments

It's incredible to look at the effect KITRO is already having while realising that I have the chance to do this all with my best friend.

Prizes:

Top 50 start-ups to invest in, Top 10 sustainable start-ups, Milestone Innovation Award, Winner Impact Category by World Tourism Forum









Ekaterina Shilova

CEO of AJELIS SAS

Main product: Metalicapt® and Geocapt®

Aim: To create fibre sorbents as a new generation of waste water treatment and metal extraction materials





Fibres for a cleaner world

) The project

The idea

We design and produce fibres for water and air pollution control, as well as for metal recycling and repurposing. Our new generation of materials makes it possible to selectively capture pollutants.

To start a business, you don't need a lot of money... You need curiosity.

Inspiration

It all comes from the field: we received requests from the industry. In 2010, nuclear industry players asked us to create caesium decontamination material. The ball started rolling and we kept on developing and improving our products.

Unique selling points

Compared to competitors, our fibres are at least 10 times quicker, and are very effective at both metal high and trace level concentrations. Moreover, they can be converted to any different textile forms, and be applied where current granular materials cannot.

Supported by:

Societal impact

With AJELIS, we intend to preserve the planet by offering water cleaning solutions, recycling high value metals and treating radioactive waste. All these issues are and will remain vital. Our mission is therefore to enhance everyone's quality of life through our work "behind the curtains".

EIT Community support

EIT business developers really helped us "burst out of our bubble" with their financial and consulting support, industrial contacts and helpful advice like business and time management tips.

Overcoming adversity

Start year:

2014

Today at AJELIS, we implement our materials to metallurgical factories which are mostly men's territory. In the beginning, I feared how my clients would react to a young woman coming to their factory in a plumber's suit, climbing into their machines with her tools... But I was always positively perceived!

The nominee

The beginning

My childhood dream was to create something that could save the world from nuclear disasters. After meeting two fantastic scientists during my PhD, the dream team was complete and AJELIS came into existence.

Rewarding moments

To launch my first synthetic company in Russia, I had to build my own laboratory from scratch, with only the materials that were at hand. It seemed a difficult challenge at the beginning, but it turned out to be a great success.



Challenge:

Waste cleaning and recycling

Prizes:

Woman of Innovation 2018 by L'Usine Nouvelle, France, designated as one of the "100 French people who inspire us" in 2018 (L'Express France), Worldwide Innovation Challenge for rare earths recovery from hi-tech waste (2014)



Fibers before use

Fibers fixed heavy metals





Karoline Beronius

Co-founder & CEO of Addressya AB

Main product: Addressya

Aim: For everyone to have an address so they can exercise their civil rights and gain access to all goods and services





Supplying the world with addresses

Q The project

The idea

Addressya is a mobile app and platform that makes it possible for everyone to create a complete, precise and easy-to-use address and share it with people and organisations. Four billion people, numerous government agencies, and businesses suffer from a lack of addresses. The challenge does not only affect low and middle-income countries, but also rural areas of high-income countries.

I remain in close contact with many innovators and entrepreneurs from the EIT. We support each other and always learn a lot.

Inspiration

While working with e-health solutions for preventive child healthcare in Afghanistan and Uganda, we noticed how difficult it was to follow up a child's vaccination schedule because they didn't have an official identity or proper address. Hence the idea to launch Addressya to help fulfil this basic need.



Unique selling points

We leapfrog addressing infrastructure through a digital solution that strengthens available addressing infrastructure and connects those who have an address with those who do not. In addition, the user owns their data and decides whom to share it with, when, and for how long.

Societal impact

Accurate addresses are an essential part of infrastructure needed for society to work and to reach the UN SDGs. By enabling the registration of people, businesses, and property, we increase transparency and efficiency in business and government.

EIT Community support

Generated funding:

EUR 395 000

The EIT puts you in contact with entrepreneurial students, start-ups and innovative researchers. Meeting them all inspired me to use the business model of a start-up to achieve the goals of Addressya.

Challenge:

Addresses for all

Overcoming adversity

All entrepreneurs struggle with funding and recruitment at some point. Everyone is looking for the same talent and that makes it hard for a small start-up to fill up some positions. We thought outside the box and recruited frontend developers through a consultancy firm in Uganda.

) The nominee

The beginning

I have experience with international cooperation within the area of ICT for the development of health services, education, innovation, and good governance. I am passionate about infrastructural change and getting the most out of every penny spent.

Rewarding moments

We recently launched our business solution in Rwanda and our stakeholders are excited; I am so proud of what my team and I have achieved so far in East Africa.

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Prizes:

Impact Maker in Venture Cup Region East, Female Founders at the Executive Women's Conference in New York









O The project

Our goal is to produce a full range of

Understand that

individual behaviour

can contribute to

significant change.

It all started as a conversation with a

friend who owned a vegan bakery and

country. Rather than manufacturing in a

central location and shipping out the final

product, the idea of a mini-manufacturing kitchen appliance in many individual locations surfaced, thus slashing the costs of central

manufacturing and distribution, while

minimising the complexity of making the

was expanding her business outside of the

printer, thereby improving the quality and

enjoyment of food, making it easier to be

The idea

food waste.

Inspiration

goods themselves.

Lynette **Kucsma**

Co-founder of Natural Machines

Main product: Foodini

Aim: To produce a full range of innovative kitchen solutions to improve food quality and reduce food waste





@NaturalMachines

- (in) Natural Machines Lynette Kucsma
 - natural.machines. foodini

A 3D food printer for sustainable and fresh food

Unique selling points

We shrunk a large food manufacturing innovative kitchen solutions, like our 3D food facility down to a stylish appliance for your kitchen counter. The big difference is that with the Foodini, you can actually in full control of all your food, and having a use your own fresh ingredients. positive environmental impact by reducing

Societal impact

Rather than be over-reliant on packaged, processed foods, people can personalise their meals, eat more healthily, improve kitchen efficiency, and lower food waste.

EIT Community support

The EIT Community has helped us connect to and work with top-tier partners, fast-track relationships, and realise our project goals faster and more efficiently.

Supported by:

eit Food

Overcoming adversity

Generated funding:

EUR 4 900 000

Every start-up, every entrepreneur, needs to overcome obstacles somewhere along the way. It may be particularly so as a female co-founder, but I tend to think about how to surpass them as an entrepreneur, not just as a woman!

The nominee

The beginning

I became interested in 3D printing when my husband once came home from work and told me a 3D printer had been installed in his office. I couldn't guite wrap my head around how a printer could create something in 3D. It was intriguing.

Rewarding moments

I'm a co-founder of a company that I absolutely love, and I have tremendous passion and drive to do what I do. Being recognised and nominated for what I cherish, is extremely rewarding.



Challenge:

 (\mathbf{f})

Sustainable 3D food printing



CNN's "Tech superhero to watch", Wall Street Journal's "Six technologies that could shake the food world"







Maria Sievert

Co-founder & Managing Partner at inveox

Main product: inveox

Aim: To rethink histopathology labs through automation, big data and artificial intelligence





Digitalisation and automation of lab analysis

) The project

The idea

Histopathology is the microscopic examination of tissue to study potential diseases. With inveox's world's first automation system for tissue sample entry, we increase efficiency and safety in pathology laboratories. The risk of operational irregularities and potential misdiagnoses are significantly reduced, and patient safety, especially in cancer diagnostics, is greatly improved.

The world needs more role models invested in coaching programmes. I mentor two brilliant women and the experience is hugely rewarding!

Inspiration

I experienced what it's like when a loved one has to be tested for cancer. I wanted to make the entire process quicker, safer, and more reliable.



Unique selling points

Our digitalisation process unlocks huge potential for data mining and machine learning to be relied upon for the future of healthcare.

Societal impact

Between one and fifteen per cent of tissue samples are vulnerable to mixups, contamination, or getting lost. This can lead to false-positives and falsenegatives. Our products are designed to prevent that from happening.

EIT Community support

We won the EIT Health HeadStart in 2018. This provided us with both financial and visibility support, which helped us grow exponentially in the short term. Our participation in EIT Health's SHIP enabled us to continue to expand our network.

Overcoming adversity

Generated funding:

EUR 17 000 000

I have had a few experiences where I was worried that my success would depend more on my looks than my brain. The good thing is that our world is slowly changing and women are having more opportunities based on knowledge and skills.

The nominee

The beginning

During a one-year exchange in the US, I first met a pathologist, learned about the issues that field was facing, and started to develop the first ideas for inveox. It all came together a few months later when I met my founding partner.

Rewarding moments

When we pitched in front of a huge crowd at Bits & Pretzels, a start-up conference, a young woman came to me and said how much she could relate to our work because she had almost been misdiagnosed herself due to a sample mix-up.

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Prizes:

German Start-up of the Year, Forbes Most Promising Startups, Munich Start-up Award





EIT Awards 2019 — 49

Efficient and safe cancer

Challenge:

diagnosis



Sara Guimarães Gonçalves

Manager at Rigger S.A.

Main product: Trigger.Systems

Aim: To save water with smart irrigation systems





in

@Trigger_Systems

Trigger.Systems

Water saving irrigation systems

O The project

The idea

Irrigation water represents 70 per cent of the fresh water used globally. Our platform improves the management of irrigation systems using calculation models based on weather forecasts and plant conditions, which enables water savings of up to 40 per cent!

There is a lot of gender bias in our sector but EIT InnoEnergy provided me with the necessary empowerment tools to make it!

Inspiration

My co-founder and I have a shared passion for technology, improving process efficiency, and agriculture.

Unique selling points

Users can customise our full-stack solution so that it best represents their actual system, thus maximising efficiency and return on investment.

Societal impact

The impact is huge: last year, we were able to save more than 146 000 cubic meters of water in one municipality alone. Moreover, the solution can be implemented in any garden, farm or irrigation infrastructure.

EIT Community support

Beside financial support, the EIT provided us with customised training, for instance, regarding business skills for entrepreneurs.

Supported by: eit InnoEnergy

Overcoming adversity

Generated funding:

EUR 700 000

The biggest challenge is often to gain self-confidence and resilience!

The nominee

The beginning

I used to live on a farm when I was younger. I later discovered how agronomy combines everything I love: research, being close to the fields, technology, distribution, logistics, bringing an answer to environmental and societal challenges...

Rewarding moments

Every time our work is acknowledged and rewarded is unique.

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Prizes:

EIT Food Accelerator Network, EIT Climate-KIC Accelerator Portugal, Climate Launchpad





Sustainable agriculture

Challenge:

Introducing





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EIT Awards 2019 — 53



Norbert Leder

Senior RF/MS System Design Engineer at MyTool IT GmbH

Main product: ICOtronic

Aim: Developing tools with specialised sensors to analyse production data and improve manufacturing



) mytoolit.com

Tool holders with specialised sensors for a smoother production process

Unique selling points

producing.

Societal impact

Our ICOtronic was designed from the

ground up to feature open interfaces:

mechanically, it can connect to a huge

variety of tools. From an information

technology perspective, our open

protocols facilitate integration in all

kinds of systems. It is cost-efficient,

enables real-time in-process control, and

detects and circumvents chatter while

The advantage of our innovation is two-

fold. Firstly, specialised products can be

parts. Secondly, dull and repetitive tasks

input of the people working on the floor

can be automated, which reduces stress

guickly manufactured with few scrap

can be taken over by a computer: the

and the need to be constantly alert.

Q The project

The idea

The sensors of modern machines are universal and geared towards typical applications, but there are plenty of situations where specialised sensors are needed. We integrated those inside tool holders, because these are versatile, standardised pieces that connect tools and machines. This intimate relationship allows high-quality measurements, which, in turn, enable the optimisation of production parameters.

Let's empower a new generation by fixing something and Instagramming #repair, so that this message can seep into our collective mind, alongside some beach photos.

Inspiration

Our inspiration was the ideal of the "smart factory": not just a collection of smart machines on the work floor, but ones that have a great potential to interact.

Supported by:

Generated funding: EUR 570 000

Start year: 2017

EIT Community support

Thanks to the EIT Community's network, we gained access to new resources (machines, sensory equipment, etc.) and support in terms of machining and research know-how.

Teamwork

MyTool IT is a great combination of experts from different disciplines (electronics, software development, production) and the academic knowledge of TU Wien. So, one of the main advantages of this team is strong, interdisciplinary interaction at a high level!

) The innovator

The beginning

Even as an electrical engineer, I always had a soft spot for machining. This field fascinates me since it is hundreds of years old, and it hands down loads of knowledge in so many ways. When I was approached by a small team of mechanical engineers, with a similar idea and a suitable project, I jumped at the chance.

Rewarding moments

The team is quite diverse and works closely together with academia and industry. In the beginning, it was not easy to find a common ground and language. Once the transition finally started, however, I was baffled by how quickly we went from a group of people to a team.

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Challenge: Converting production data into knowledge







Patrick de Luca

Manager of Innovation Projects at ESI Group

Main product: AMPLI project

Aim: Accelerating the digitalisation of plastic manufacturing industries through new technologies



Augmented reality for the advancement of the plastic industry

Q The project

The idea

Thanks to an augmented reality environment together with physics-based real-time simulation, we collect real-time information for plastic factory workers to empower them to take more well-founded decisions around and on the production line.

 Innovation should be part of children's education.
 Dreaming and inventing are an inherent part of their youthful minds!

Inspiration

We knew the combination of realtime simulations and virtual reality in manufacturing would open an infinite world of new possibilities and perspectives. It offers guidance in daily operations, but it is also an ideal way to train and attract young generations.

Unique selling points

The AMPLI project offers both economic and societal advantages: the technologies allow the products to become cheaper and of higher quality. Additionally, it revolutionises the workplace by making it run smoother!

Societal impact

Our innovation will reinvigorate the competitiveness and attractiveness of European industry, wherein the manufacturing sector will be able to engage more and more people who want a brand new, exciting job.

EIT Community support

EIT Manufacturing helped us find the right partners and to crystallise the opportunity to create something unique and innovative.

Supported by:

Generated funding: EUR 498 000 **Start year:** January 2020

Teamwork

Our team consists of four vital associates from EIT Manufacturing. We all bring something different, but equally valuable: from technologies to research, from testing opportunities to skills in machine interoperability.

The innovator

The beginning

Recently, I've felt like engineering and doing business as usual offers a limited horizon. New technologies permit simultaneous dramatic advances in all domains (profit, sustainability, human well-being). It may sound naïve, but this was enough for me to leave the sector in which I successfully built my career, to happily move on to a new world and a new position.

Rewarding moments

Now, having reached this level of maturity in my career, I dare say that the AMPLI project is the most rewarding moment of my professional life. It feels great to contribute to the emergence of our new world.









Angelo Pascale

Director, Public Transport Department at the City of Milan

Main product: CLEAR – City LivEAbility by Redesign

Aim: To rethink histopathology labs through automation, big data and artificial intelligence



🛞 comune.milano.it

Real-life transition experiments in urban areas

Q The project

The idea

Through the CLEAR project, our consortium intends to re-shape urban mobility to enhance the quality of life of citizens. In 2020, experiments in Milan combining specific interventions in public spaces with the development of alternative mobility methods, will enable the transformation of the urban landscape according to local needs, and will stimulate both the community and the economy.

We decided to join the EIT Community, firstly because we share its strategic objectives, but also because they have vision.

Inspiration

The City of Milan is investing a lot in redesigning its streets. This led to our current wish to reinforce the local identity of each district and to facilitate pedestrian mobility.

Supported by:



Unique selling points

As the ultimate beneficiary of the transformation, citizens are included in the reflection process from the get-go.

Societal impact

We enhance multimodal mobility for the individual and the whole of the community at the same time. This brings about a positive turn regarding the attractiveness and liveability of the city, as we improve local commerce and tourism while increasing safety, cohesion and social integration.

EIT Community support

EIT Urban Mobility backed our consortium by steering us in the right direction during the application phase. No doubt their support will be even more crucial in the years to come.

Teamwork

Start year:

2020

Our team consists of experts from various cities who will identify the experiment areas and execute the conversion itself. We also have university academics committed to developing the transition pattern and a series of consultants to help on more specific issues.

) The innovator

The beginning

As Director of the Public Transport Department at the City of Milan, improving urban mobility is by essence one of my focus topics.

Rewarding moments

One of the most rewarding moments of my career was when Milan hosted EXPO2015. It was a tremendous challenge to manage transportation for more than 20 million people over six months. Vast improvements were necessary to cope with this unique situation, but we pulled it off!

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Partners: Comune di Milano

Transforming urban mobility

Challenge:







Laura Mazzola

Project Manager Innovation Projects Department at the Fondazione Politecnico di Milano

Main product: SOUL – Smart mObility hUb pLatform

Aim: To rethink histopathology labs through automation, big data and artificial intelligence



fondazionepolitecnico.it

@FondaPoliMi

Fondazione.Politecnico. di.Milano

Decision support tool for urban mobility modelling

The project

The idea

Ο

Within the framework of the SOUL project, we intend to create an efficient and reliable Decision Support System (DSS) that will gather crucial insights that enable future urban mobility systems to be more collaborative, user-centered, eco-efficient and safe. The aim is to develop a conceptual model of an expert focused DSS for users in the public and private sectors.

Innovative and responsible research should be encouraged much more. I am convinced that crowdfunding is one of the best leverages to achieve that.

Inspiration

There are multiple obstacles to the progress of digitalisation in urban mobility today. Facilitating the development of data-driven urban mobility hubs is one of the first springboards to remove them.



Unique selling points

SOUL will enable a sound and co-created strategy for seamless urban mobility, as it includes all relevant stakeholders from all involved sectors.

Societal impact

The DSS will provide meaningful information for market analysis while increasing citizen participation in public authority processes. Improving the integration of citizens will also facilitate behavioural changes towards more sustainable mobility habits.

EIT Community support

Generated funding:

EUR 760 000

EIT Urban Mobility played a critical role in bringing together the right partners and competences for this project.

Start Year:

September 2019

Teamwork

Ten partners from all EIT Urban Mobility Innovation Hubs work hand in hand within the framework of SOUL. Cities supply reliable data and experience as a living lab, academia and research institutes focus on the DSS and its platform, while other specific stakeholders concentrate on more technical issues.

) The innovator

The beginning

Ever since my Master thesis, I have been involved in mobility issues: comfort, reliability, and dynamics. In the meantime, things have evolved and my focus lies more and more on autonomous vehicles and their social impact.

Rewarding moments

Winning the Vision Award of the Institute of Mechanical Engineers was definitely a moment I'll never forget.

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Challenge: Data-driven urban mobility





MAKING INNOVATION HAPPEN

What is the EIT?

ideas into reality.

The European Institute of Innovation and

students across Europe to turn their best

How does the EIT work?

Trains a new generation

of entrepreneurs

Powers start-ups

and scale-ups

Develops innovative products and services

Technology (EIT) drives innovation in Europe

by supporting entrepreneurs, innovators and





EIT Climate-KIC

Accelerate the transition to a zero-carbon economy Drive Europe's digital tranformation

EIT Digital



EIT Urban Mobility

EIT RawMaterials



RESEARCH

* figures September 2019

Companies including

> 133 IIA

Cities, regions and NGOs

SMEs

Europe's largest innovation community

COMPANIES

EIT

INNOVATION COMMUNITY

252

Research

Centres

1500×

UNIVERSITIES

Higher Education Institutions



EIT Food

Lead a global revolution in food innovation and production

EIT Health

Give EU citizens greater opportunities for a healthy life



EIT Manufacturing

Strengthen and increase the competitiveness of Europe's manufacturing industry

EIT InnoEnergy

Achieve a sustainable energy future for Europe



The EIT is a body of the European Union



