Blekinge as a Demo Region

Smart Specialization Strategy (S3) pre-study

Synthesis report

August 2023, English version

Tamara Carleton, Blekinge Institute of Technology

Roland Porter, Techtank

Anna Söderberg, NetPort Science Park

This report has been made possible through the project Kickstart S3 (2021-2023) founded by the European Union and Region Blekinge. Region Blekinge was the project owner and project members were Almi Blekinge, Blue Science Park, Techtank, Blekinge Technical University, Netport Science Park, and Blekinge Business Incubator.

EUROPEAN UNION
European Regional Development Fund

REGION BLEKINGE

Table of Contents

Key takeaways of the pre-study:

- The region must create and **confidently own** its definition of a "demo region".
- Being a demo region requires the willingness to "**dare to try**". To demo means to experiment. We must see the region in a more visionary light and embrace challenging the status quo.
- We should engage the **youth** more in regional plans, especially their views on creating local culture.
- This pre-study approach relied on collaborative workshops **mixing participants** from multiple sectors and cities in the spirit of mission-driven innovation – a model that many wanted to see adopted in other regional planning in Blekinge.

REGION BLEKINGE

Project Context

How does this topic fit into broader regional planning? What is a demo region?

REGION BLEKINGE

This pre-study is part of the region's Smart Specialization Strategy (S3) initiative

The European Commission has introduced "smart specialization" as a policy instrument for member nations.

The purpose of S3 is to gather forces at the regional level, especially for innovation in a future growth area. S3 is also place-based, which means it is tied to a particular location.

In the Blekinge region, the purpose of S3 is to improve job productivity, industry structure, and the employment rate.

Learn more at the Region Blekinge website.

Region Blekinge is focused on three specialization areas in particular:

1. **Smart Industry**: which includes forming technology and marine technology.
2. **Tech**: which includes artificial intelligence, digital twinning, and digitalization.
3. **Missions**: which is an emerging EU policymaking model for addressing societal challenges through cross-sectoral collaboration.

Source: https://regionblekinge.se/regional-utveckling/naringsliv-innovation-och-kompetensforsorjning/innovation/smart-specialisering.html

A demo region requires an experimental mindset

No formal definition of a "demo region" exists yet.

Informally, a demo region describes a physical place that shows a particular capability or serves as a leading **test environment** for other regions and communities.

(Another term from some agencies is system demonstrator, though most groups are unfamiliar with this term.)

A demo region requires an **experimental mindset** in the community: a willingness to try, to build and rebuild prototypes toward shared learning, and to exhibit positive new change.

A demo region may feature a cluster of testbeds working in the same industrial sector (e.g., automotive, IT, food) or with similar goals (e.g., climate change). However, having multiple local testbeds or test facilities does not produce a demo region.

Pre-study participants explain what a demo region is in their own words:

- "A perfect opportunity to present, promote and do something for the region where you live and work."
- "It is a chance to improve your life, especially to do something for future generations to stay in Blekinge and not move to another places."
- "A region that wants to solve its challenges with new methods and in innovative ways. It requires brave leaders who are ready to invest in both short and long term changes. Being a demo region directly benefit its citizens in some way."
- "A place where you can experience and evaluate possibilities towards commercializing products and services."
- "Something special or unique that a region can share with or show to others."
- "A selected geographical area where the focus lies on testing new methods with a clear innovative approach. In addition to creating increased accessibility and use of existing testbeds, it is to enable testing of new models within areas like: business development, collaborations, technical development, and societal challenges."
- "A place where you can try out new solutions for yourself, for others, or with others."

Community Input

What was the pre-study approach? What was the result of the workshops?

REGION BLEKINGE

The pre-study relied on a workshop series to engage a broad cross section of the local community

Each workshop was organized as a small group discussion representing different aspects of the region. A series of three workshops was organized throughout May 2023, each on a different primary theme.

1. May 11 theme: **Municipalities**
2. May 17 theme: Small and medium-sized enterprises (**SMEs**)
3. May 31 theme: **Sustainability**

Each workshop followed a similar agenda, so insights and participants could cross over more easily. The last hour in each workshop was spent exploring possible ideas to pilot.

Representatives were diverse, as follows:

Workshop I	Workshop II	Workshop III
1. Blue Science Park 2. Business Blekinge 3. Lansstyrelsen 4. NetPort Science Park 5. Olofström Kommun 6. Regional Development Board 7. Visit Blekinge	1. Addict3D / Sculptur Group 2. Baosteel TB 3. Cleura 4. Crealutions 5. Dura-Shiloh 6. Roxtec 7. Strawberry Planet 8. Tokeep	1. AAK 2. Blekinge Institute of Technology 3. Dynapac Compaction Equipment AB 4. Coompanion 5. Foodtankers 6. Noda 7. Schvung 8. The Green Dairy

Participants felt strongly that Blekinge should embrace being a destination at the "end of the train line"

Broadly, participants felt a better story was needed to help people understand the value of a demo region. For example, if Karlskrona represented the "15-minute city", what if Blekinge positioned itself as a "**60-minute region**" to encourage residents to move more often between the cities and feel included?

Participants recognized that most existing testbeds and test facilities (which are open to external members) are not actively used. Thus, an effective demo region should consider community engagement and **more creative public-private partnerships** to ensure active use beyond short-term funded projects.

The group discussed several historical cases that demonstrated regional success like:

- An informal **alliance among human resource managers** of local Blekinge companies in the mid to late 1980s that helped place job candidate spouses / partners and keep talent within the region.
- Telecom City in the 1990s, led by **proactive local political leaders** that created a telecom cluster around an emerging tech.
- A regional district heating project, which reused industrial surplus energy in the district heating system.

The real discussion led to creating a demo mindset versus more test sites as the lasting value for Blekinge

Generally, participants who grew up in Blekinge were more cynical and pessimistic about changing the region's image. As the foreign-born participants explained what attracted them to Blekinge and why, others began to change their perspective. For example, instead of seeing the region's size as a drawback, they could see being a smaller region creates the advantage to move quicker and more nimbly.

In every workshop, there was also a thread about having the courage to think bigger. As one participant said, "If Blekinge could have balls", and another described the attitude should be "call, don't want to be called". Växjö was mentioned several times as a regional role model that had taken bold action to change.

Participants also discussed potential strategic areas or unique aspects of Blekinge that could demonstrate regional advantage. Local strengths mentioned most often were:

- A marine circular economy – from mussel farms to underwater cables to ocean wind turbines, as well as related to the region's naval defense and military training due to rising NATO attention
- Immigrant assimilation and foreign talent practices, especially hiring by local companies

Some recommendations were to build a tech hub, transport hub, more startup support services, and talent development initiatives – discussed further in the report's mission section.

A related insight was to focus less on what Blekinge has now and focus more on what we want to be

In all workshops, a discussion emerged about addressing local culture and lifestyle as part of building regional demo capacity. One theme was to **support local youth** better in their lives outside school and at transitional points – for example, offering a support package to BTH university students before graduation.

Another point was to focus on **regional quality** versus arbitrary growth: to be more proactive than reactive. **What makes Blekinge unique?** In other words, Blekinge does not need to be a smaller version of Västra Götaland or Kronoberg; instead, Blekinge could seek to directly appeal those who would appreciate an archipelago lifestyle or marine opportunities.

The concept of a "**super demo region**" was introduced in the first workshop as a way to unite multiple topics in a shared purpose and mutual growth. The S3 initiative became one part of a broader regional growth plan, and a demo region focus could then display the region's vision as it grows and does more.

Participants appreciated being invited to a discussion about shaping the future of their region, and they all wished to be included in future discussions. In addition, they felt that these types of discussions were often kept in existing silos (e.g., kommuns, same industrial sectors), and they wanted more projects that fostered **mixed collaboration** between city officials, politicians, and businesses.

Pilot Recommendations

What does mission-oriented innovation mean,
and what are some pilot ideas for Blekinge?

REGION
BLEKINGE

A mission-oriented approach means to engage diverse sectors in addressing a societal challenge

UK-based economist Mariana Mazzucato has spearheaded the concept of a mission-oriented approach, which the European Commission has adopted for policymaking.

Mazzucato has expanded the dictionary definition of a "mission", which traditionally meant a special assignment given to a person or group with specific objectives (often used to describe a military or aerospace effort). Her aim is to bring together different "system actors" across public, private, and civic sectors and use government-sponsored programs to provoke more private sector investment for innovation.

A mission-oriented approach is defined as:

- **Government led**: "spearheading public research and innovation investments in new strategic areas"
- **Cross sectoral**: "A key lesson is that missions must be bold, activating innovation across sectors, across actors and across disciplines."
- **Societally relevant**: "missions should aim to improve society's welfare"
- **Bottom up**: "A mission is not a single project, but a portfolio of actions that can encourage multiple solutions."

Source: Mazzucato, 2018, "Mission-oriented research & innovation in the EU", European Commission.

The European Commission has introduced 5 new EU missions to address key global challenges, as follows:

1. **Adaptation to Climate Change**: support at least 150 European regions and communities to become climate resilient by 2030;
2. **Cancer**: working with Europe's Beating Cancer Plan to improve the lives of more than 3 million people by 2030 through prevention, cure and solutions to live longer and better;
3. **Restore our Ocean** and Waters by 2030;
4. **100 Climate-Neutral and Smart Cities** by 2030;
5. **A Soil Deal for Europe**: 100 living labs and lighthouses to lead the transition towards healthy soils by 2030.

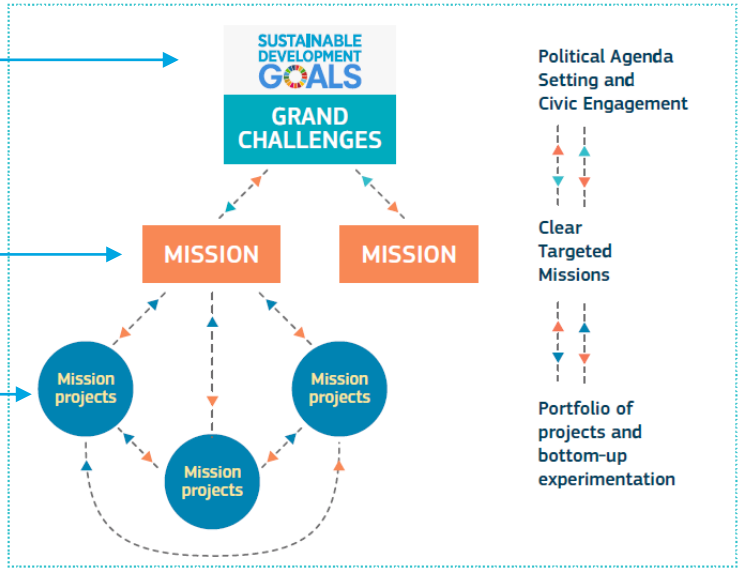
Within Sweden, Vinnova is working with **Blekinge as the first use case** of mission-oriented innovation for the nation, and the project team has conducted several learning workshops and interviews to date. This demo region pre-study offers input to Vinnova's broader effort.

Source: https://euraxess.ec.europa.eu/worldwide/north-america/european-commission-launches-eu-missions-tackle-major-challenges

An effective mission makes a significant contribution to addressing a societal grand challenge or SDG

A mission addresses a major problem facing society, often called a "**grand challenge**". These problems can also be drawn from the United Nations' 17 Sustainable Development Goals (SDGs). **Multiple complementary missions are often needed** to address a grand challenge.

As described by Mazzucato, missions should have a **clear objective and be actionable**. For example, if a grand challenge aims for clean oceans, one mission is to reduce 90% of plastics entering the marine environment by 2030. Multiple projects then support a mission as part of bottom-up experimentation.



EXAMPLE

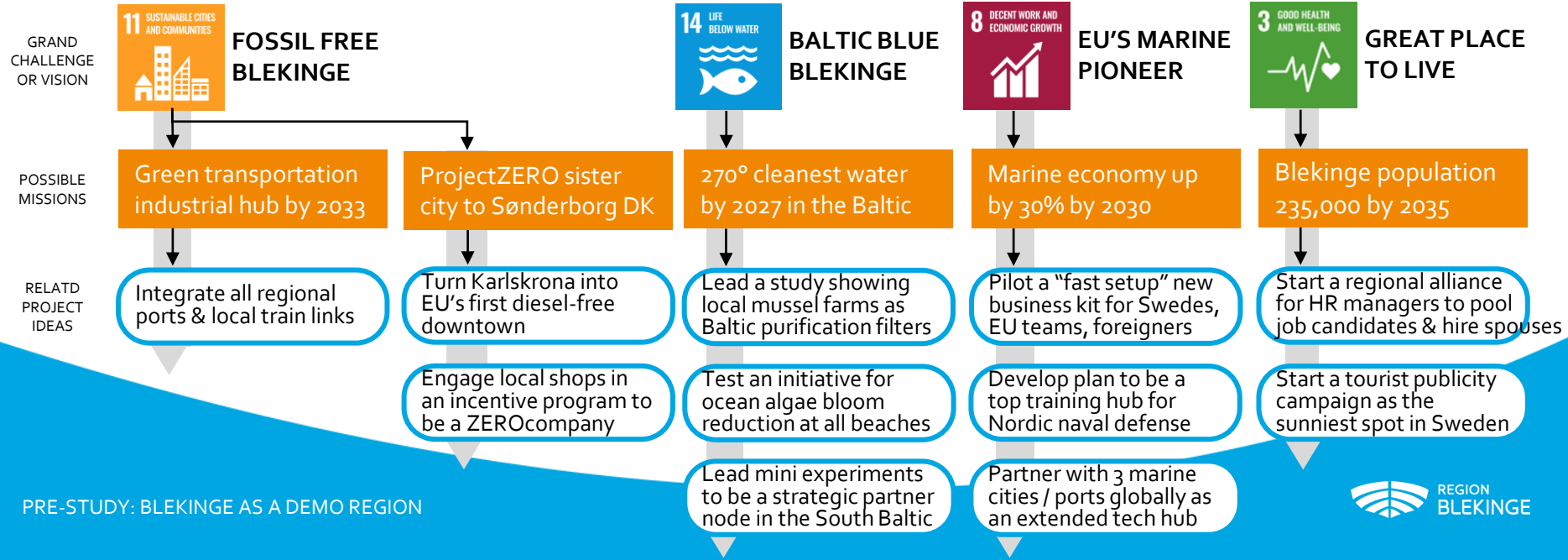
A plastic-free Baltic Sea by 2030

School district science projects
+
City-wide ocean cleanup day
+
Store incentives

Source: Mazzucato, 2018, "Mission-oriented research & innovation in the EU", European Commission.

Pre-study participants became enthusiastic imagining various mission-oriented pilots that Blekinge could demo

In the pre-study workshops, participants brainstormed possible mission-oriented ideas to show what a demo region might entail for Blekinge's future. All participants started to see how their organization could help. Similar ideas were later combined and adjusted slightly to fit local strengths.



REGION BLEKINGE

Demo Examples

What are examples of other “demo regions”, and what can Blekinge learn from them?

REGION BLEKINGE

fDI's 2023 list of "European Regions of the Future" features an unusual mix of small regions

fDI Intelligence is a service from the *Financial Times*, which includes publishing an annual report of foreign direct investment and lists of top regions attracting international interest.

The group divides regions into three categories based on size, and small regions have a population below 1.5 million people – which applies to Blekinge, which has a population of 158,740 according to Statistics Sweden.

This list offers one example of demo regions trying **strategies that spark global interest** and are seen with strong future potential.

TOP 10 SMALL EUROPEAN REGIONS OF THE FUTURE 2023 – BUSINESS FRIENDLINESS

RANK	REGION	COUNTRY
1	Dublin Region	Ireland
2	Prague Region	Czech Republic
3	Oslo County	Norway
4	Harju County	Estonia
5	Vilnius County	Lithuania
6	Bratislava Region	Slovakia
7	Sofia City	Bulgaria
8	Canton of Zug	Switzerland
9	Brussels Capital Region	Belgium
10	Utrecht Region	Netherlands

Small regions: Fewer than 1.5 million people

Source: fDi Intelligence, *European Cities and Regions of the Future 2023*

Blekinge can gain lessons from the micro cities in the fDI's 2023 list of "European Cities of the Future"

The same fDI report for *European Cities & Regions of the Future 2023* includes lists of European cities. This list is divided into four categories, including micro cities that have a population below 100,000. The largest city of Blekinge is Karlskrona, which has a population of 66,682 according to Statistics Sweden.

Their top 10 list of micro cities features multiple cities in Ireland, including Limerick (#2), Galway (#3), Shannon (#4), Sligo (#6), and Dundalk (#10). The report includes an ad for Limerick – without seeing the city name, **the Limerick photo evokes Karlskrona** with an archipelago lifestyle and ancient fort wall.

Limerick, Ireland

Knowing the Covid-19 pandemic had strained cross-border investment flows, Limerick council decided to focus its investment and marketing efforts on the city's recognised strengths, such as pharmaceuticals, medtech and technology. In 2022, these efforts came to fruition, with the city attracting fresh capital pledges from Eli Lilly, Johnson & Johnson, US software company FileCloud and respiratory diagnostic specialist Vitalograph. Local development is supported by a free, high-quality Wi-Fi service being rolled out across public spaces, and climate change pilot programmes sparked by Limerick's designation as an EU Lighthouse Smart City. ■

Source: fDi Intelligence, *European Cities and Regions of the Future 2023*

Blekinge can consider the fDI report metrics, which show what matters to global investors as future growth

The fDI report committee relied on five categories to choose the top regions and cities for the *European Cities & Regions of the Future 2023*:

1. **Economic potential**
2. **Human capital and lifestyle**
3. **Cost effectiveness**
4. **Connectivity**
5. **Business friendliness**

See all fDI metrics on the next page. Beyond the usual metrics of new jobs created or population in-flow, how might Blekinge consider other measures that are more appropriate and relevant for becoming a successful demo region?

For example, metrics in the fDI category of "human capital and lifestyle" consider the number of local students, graduate skill sets, and educational attainment of residents – all of which are high in Blekinge. Pre-study workshop participants shared that talent development, natural beauty, and an outdoor lifestyle were all important themes to them.

As a second example, metrics in the fDI category of "connectivity" includes Wi-Fi access, the number of medium or large ports nearby, and companies in the transportation sector. In Blekinge, local public transit often provides free Wi-Fi access to all travelers (unlike many other nations), and there are multiple medium-sized ports and local transportation companies that could be emphasized more to show a highly connected region.

Source: fDi Intelligence, *European Cities and Regions of the Future 2023*

DATA POINTS

ECONOMIC POTENTIAL

- Population
- Population growth rate
- Unemployment rate (%)
- Inflation
- GDP (PPP Current Intl $) (millions)
- GDP per capita (PPP current Intl $)
- GDP Forecast (average annual growth rate - %) (2021-2026)
- GDP average annual growth rate (- %)
- Outward FDI (H2 2017 – H1 2022)
- Outward FDI per 100,000 people (H2 2017 – H1 2022)
- Inward FDI (H2 2017 – H1 2022)
- Inward FDI per 100,000 people (H2 2017 – H1 2022)
- Nominal growth of inward FDI projects per 100,000 people (October 2010 - September 2015) vs (October 2016-September 2021)
- Inward FDI in R&D and DDT per 100,000 people (H2 2017 – H1 2022)
- Inward FDI in advanced manufacturing per 100,000 people (H2 2017 – H1 2022)
- Number of mega projects by capex (over $100m) (H2 2017 – H1 2022) per 100,000 people
- Number of mega projects by jobs (over 1000 jobs) (H2 2017 – H1 2022) per 100,000 people
- Capital expenditure on R&D projects ($) (H2 2017 – H1 2022)
- Number of patents 2013 - 2021
- Number of patents per 100,000 people 2013 - 2021

HUMAN CAPITAL AND LIFESTYLE

- Labour force participation rate, total (% of total population ages 15+) (modelled ILO estimate)
- Secondary educational attainment
- Tertiary educational attainment
- Education expenditure (% of GNI)
- Number of students
- Number of students per 100,000 people
- Number of universities
- Number of universities per 100,000 people
- Number of IB schools
- Number of top 1500 universities
- Skillset of graduates
- Life expectancy
- Social Progress Index
- Human Development Index
- Number of physicians per 1000 people
- Ease of finding skilled employees

COST EFFECTIVENESS

- Average annual salary ($) for a semi-skilled worker
- Average annual salary ($) for a skilled worker
- Annual rent for prime Grade A office space ($ per m2)
- Annual rent for prime Grade A industrial space ($ per m2)
- 4*/5* hotel in city centre ($ per night)
- Minimum wage ($)
- Cost of establishing a business (absolute value using GNI)
- Cost of registering a property (absolute value using GNI)
- Cost of construction permits (absolute value using GNI)
- Cost of establishing an electricity connection (absolute value using GNI)
- Petrol prices ($)
- Cost of electricity ($ per kwH)
- Corporation tax rate (%)
- VAT/ common indirect tax rate (%)
- Total tax rate (% of profit)

CONNECTIVITY

- Download speed (mb/s)
- ICT Development index
- Number of airports within 80 km of the city
- Number of international destinations served
- Distance to nearest international airport (km)
- Number of ports within 100km (medium)
- Number of ports within 100km (large)
- Number of ports within 100km (very large)
- Number of ports within 100km (medium +)
- Logistics performance index
- Networked Readiness Index
- Environmental Performance Index
- Quality of overall infrastructure
- Quality of roads
- Quality of railroad infrastructure
- Companies in the transportation sector per 100,000 people

BUSINESS FRIENDLINESS

- Total number of companies within the hi-tech manufacturing sector 2022
- Total number of companies within the hi-tech service sector 2022
- Total number of companies within the knowledge-based sector 2022
- Proportion of companies within the hi-tech manufacturing sector 2022
- Proportion of companies within the hi-tech service sector 2022
- Proportion of companies within the knowledge-based sector 2022
- Total number of companies within the hi-tech manufacturing sector 2022 (per 100,000 people)
- Total number of companies within the hi-tech service sector 2022 (per 100,000 people)
- Total number of companies within the knowledge-based sector 2022 (per 100,000 people)
- Number of jobs created by all inward FDI (H2 2017 – H1 2022)
- Number of jobs created by all inward FDI per 100,000 people (H2 2017 – H1 2022)
- Number of expansion/colocation projects per 100,000 people (H2 2017 – H1 2022)
- Fragile States Index 2022
- Number of top 1000 World Banks 2022
- Corporation tax rate (%)
- Days taken to start a business
- Ease of doing business index
- Index of Economic Freedom
- Corruption Perception Index
- Protecting Minority Investors Score
- Country risk score
- Firing costs ($)
- Credit rating

Source: fDi Intelligence, *European Cities and Regions of the Future 2023*

By knowing fDI's metrics, Region Blekinge can update and quantify its growth measures for global appeal

The Regional Development Strategy of Blekinge outlines six goals with corresponding indicators, as follows. An opportunity exists to align these indicators to fDI's metrics to better attract global interest.

- **Strengthening the attractiveness especially for young people**
  Indicator: More inhabitants in Blekinge and an improved domestic net migration
- **Reduced environmental and climate impact**
  Indicator: Improvement according to the regional environmental quality objectives in Blekinge
- **Good and equal health**
  Indicator: Self-rated health must be improved and become more equal
- **Strengthening the competitiveness of the business sector**
  Indicator: GDP per person employed (productivity) in Blekinge's business sector to increase
- **A growing business community with more jobs**
  Indicator: The number of people employed in Blekinge's business sector will increase
- **More Blekinge residents in work**
  Indicator: The employment rate in Blekinge will increase and the differences between groups will decrease

Source: https://regionblekinge.se/download/18.243076b117f44ad50511ae22/1646648808596/M%C3%A5lbeskrivningar_final_1_nov_2022_v4.pdf

As a test environment example, Predire Testcenter is a successful, commercial testbed based in Blekinge

Predire is a good example of a profitable commercial testbed in the local private sector.

The business is an independent, **accredited test lab and analysis lab** in the automotive space, providing vehicle tests, emission tests, and related services to their clients. Their headquarters are in Sölvesborg, and they have offices in Olofström and Göteborg in Sweden, as well as Grevenbroich in Germany.

Curiously, Predire Testcenter was never mentioned in any of the interviews during the S3 testbed pre-study in 2022, nor recognized by pre-study workshop participants, which indicates low awareness by locals in Blekinge.

Predire Testcenter

Predire: "We are proud that we have been given the confidence to do the climate testing on electric engines, from one of the world's top tier car manufacturer!"

Source: https://predire-testcenter.com/en/

The Nordic Testbed Network is a multi-region effort connecting different testbeds in the bioeconomy

The Nordic Testbed Network is an example uniting multiple regions for a specific test capacity. The aim is to "co-create solutions supporting the digital transformation in the Nordic and Baltic bioeconomy". They use a membership model, highlighting local testbeds in forestry, agriculture, or aquaculture (note: none from Blekinge yet). They recently expanded the Nordic focus to other Baltic nations like Latvia.

This initiative is managed by Nordic Forest Research (SNS), Nordic Agri Research (NKJ) and the Nordic Council of Ministers' working group on fisheries and is aligned with other initiatives, such as the North Digital Declaration and the Nordic Bioeconomy Program.

This network was launched in 2018, as part of an effort that highlighted testbeds as an important part of strengthening the Nordic and Baltic bioeconomy's profitability and competitiveness. The group's belief is that: "Access to cutting edge platforms for development, so-called testbeds, where new digital knowledge and technology can be developed is fundamental."

Joining their network is free, which is funded by the sponsoring Nordic ministries. The group mainly organizes an annual conference with periodic webinars and distributes a newsletter to its members.

Source: https://nordictestbednetwork.se

NORDIC TESTBED NETWORK

Supporting digital transformation in the Nordic bioeconomy

AU Center for Smart Farming

Testbed for Digitalized Agriculture

Troëdsson Forestry Teleoperation Lab

Ouluzone+

SITES

DigiFoods

AquaVIP

Latvian i-garden

Drone Center Sweden

Mistra Digital Forest

FITPIG

Alovivum

Intelligent Organic Farming testbed

DIGIRAS

SINTEF ACE

Arctic Off-Road Robotics Lab (AORO)

AgroTech

Center for Precision Agriculture

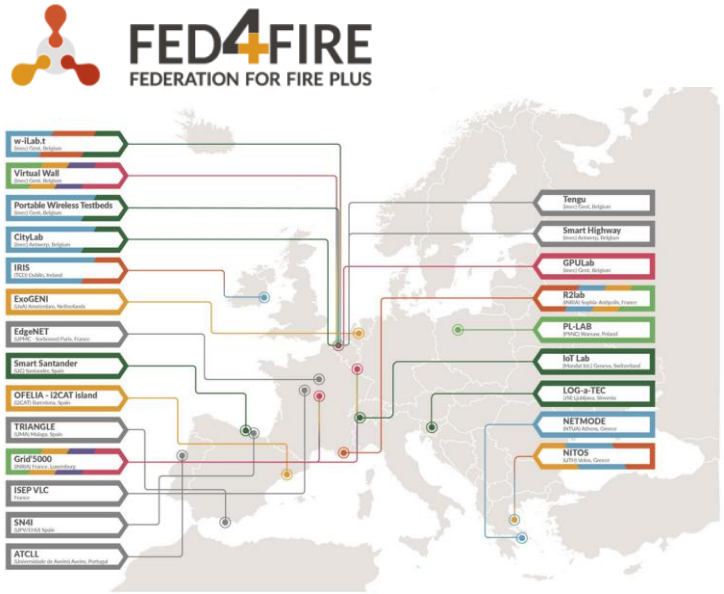
Gigacow

Latvian Institute of Aquatic Ecology

Source: https://nordictestbednetwork.se

Fed4FIRE+ is a European-wide network that aimed to increase access to cloud computing testbeds

This is a **different example of a multi-region effort** to improve testbed access in another tech area. Fed4FIRE and its successor Fed4FIRE+ were projects funded by the EU 2020 Horizon Program, which created the "largest federation worldwide" of Next Generation Internet (NGI) testbeds for European use. The project set up an online testbed portal, so researchers and teams could find testbed sites in order to demo or test an idea in cloud computing, wireless and wired networking, sensor networks, or software-defined networking. All Fed4FIRE+ testbeds can be fully operated remotely and are free of charge. The project was coordinated by Ghent University in Belgium.



Source: https://www.fed4fire.eu

The Danish city of Sønderborg is aiming to become carbon neutral by 2029 through cross-sectoral efforts

The municipality of Sønderborg in Denmark is a **demo region focused on climate change** that wants to be an example for other regions. Sønderborg is part of the SmartEnCity project, which is financially supported by the EU's Horizon 2020 program. Starting in 2007, the city has worked on a "dual ambition… to mitigate emissions backed by a carbon-neutral energy system by 2029 and to inspire the world on how to achieve this in a robust and cost-effective way". Efforts are anchored in a public-private partnership called ProjectZero that involves local politicians, companies, citizens, and city groups.

As part of Sønderborg's plan, participating companies are called ZEROcompanies, which earn higher diplomas for their energy savings, and local shops can be certified as ZEROshops. Sønderborg's efforts, plus the other European cities in the SmartEnCity project, offer tools and templates for Blekinge to build from.

ProjectZero
SØNDERBORG

Source: www.projectzero.dk

A Transition Town is an example of a small city as testbed that has turned into a global grassroots movement

In 2006, Totnes in the United Kingdom was founded as a "Transition Town", a term popularized by British environmentalist Rob Hopkins. A Transition Town or community pledges to create "sustainable living and build local ecological resilience".

Totnes' success inspired other groups to adopt its grassroots model, and the Transition Network charity was founded in early 2007 to support these groups with training, tools, and more. By 2010, over 400 community initiatives were recognized as official Transition Towns in the UK, Ireland, Canada, Australia, New Zealand, the United States, Italy, and Chile.

Source: https://transitionnetwork.org/about-the-movement/

Appendix

Who attended the workshops? What are recommended readings?

REGION BLEKINGE

Pre-study workshop I participants: Municipalities

ORGANIZATION	NAME	ROLE
Blue Science Park	Daniel Hansson	Innovation Manager
Business Blekinge	Peter von Trampe	Senior Investment Manager
Lansstyrelsen	Ulf Hansson	Climate and Energy Strategist
NetPort Science Park	Anders Qvarnström	Focus Area Manager – Energy
Olofström Kommun	Håkan Andersson	Head Of Business (Näringslivschef)
Regional Development Board	Anna Ekberg	Vice Chair (KD)
Visit Blekinge	Lotta Johansson	Project Leader

Pre-study workshop II participants: Small and Medium-sized Enterprises

ORGANIZATION	NAME	ROLE
Addict3D / Sculptur Group	Christian Magnusson	Technical Sales / Part-Owner
Baosteel TB	Rickard Björnsson	Head of Sales & Supply Chain
Cleura	Johan Christenson	Head of Innovation
Crealutions	Matthias Eisengruber	Consultant
Dura-Shiloh	Joakim Lennartsson	Plant Manager / Managing Director
Roxtec	Luka Medved	BA Marine & Offshore Technical Manager
Strawberry Planet	Anna-Lena Rikardsson	Founder and part owner
Tokeep	Bertil Hedén	Founder and CEO

Pre-study workshop II participants: Sustainability

ORGANIZATION	NAME	ROLE
AAK	Svenolof Karlsson	Health, Safety & Environment Manager
Blekinge Institute of Technology	Sven Borén	Department Head of Strategic Sustainable Development
Coompanion	Louise Sandholm-Lindell	Operations Manager
Dynapac Compaction Equipment AB	Pontus Jonsson	IMS Manager
Foodtankers	Tomas Petterson	CEO
Noda	Jens Brage	Head Of Research & Innovation
Schvung	Sofie Andersson	Social Entrepreneur
The Green Dairy	Cissi Lingerud	Innovation Manager

About mission-oriented policymaking

Recommended readings

1. Mazzucato, Mariana. (2018). *Mission-oriented research & innovation in the European Union*. European Commission.
2. Hill, Dan. (2022). *Mission-oriented innovation handbook*. Vinnova.
3. Larrue, Philippe. (2021). *The design and implementation of mission-oriented innovation policies*. OECD policy papers no.100.

Resources

MOIP Online Toolkit
(MOIP = mission-oriented innovation policies)
https://stip.oecd.org/stip/moip

REGION BLEKINGE

Tamara Carleton, Ph.D.
Blekinge Institute of Technology
tamara.carleton@bth.se

Roland Porter
Techtank
roland.porter@techtank.se

Anna Söderberg
NetPort Science Park
anna.soderberg@netport.se

REGION BLEKINGE