



Borderless opportunities

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Priority area 1 – Research and innovation

Prioritizing research and innovation can result in thriving innovative environments and meeting places in the region. Such innovative environments can be combined to create further development opportunities, into and even further than priority areas in our program. Furthermore, the Nord programme can also help in creating greater cross-border innovation support systems, resulting in the strengthening of innovative environment in the region.

Specific goals and granted projects

1) Companies' ability to commercialize innovation has been enhanced within the region's priority areas.

Nord: CMT, MinNorth, I3, Arctic Energy, Nya möjligheter för CLT, Live Nord, Smart WPC, WAX, WIRMA, VanProd, C3TS, Sea-Surf-Snow, New technology – Flue gases,

2) Actors in the innovation system have enhanced their ability to participate in the European research arena aligned with the region's priority areas.

Nord: RESEM, NorFaST-HT, RENEPRO, SusMinNor, AMCA, ARCTIC-ecocrete, Flexible – Electrodes,

Priority area 2- Entrepreneurship

This priority area in the program aims towards strengthening of a long-term and competitive business market with focus on sustainable growth. A number of small and medium enterprises (SMEs) in the region have limited resources and therefore have inability to create a sustainable competitive advantage. By prioritizing this priority area and putting more focus on the resources, there are possibilities to increase the chances to develop competitive and international companies.

Specific goals and granted projects

1) Increased proportion of SMEs with cross-border business models.

Nord: NBS, Ny mat från Arctic, BMI, Utveckling av Nordkalottens gränstjänsts näringslivsvägledning, ICNBC, CYNIC

2) Increased export among SMEs in the region.

Nord: Arctic Image, VAE, CINEMA, VAE II

Priority area 3- Culture and Environment

By prioritizing the region's culture and environment, the program area's resources can be optimized and the potential added-value can be created where many get a change to participate in the region's rich culture and cultural heritage. Furthermore, a collective effort to increase the use of Sami language, preservation and retainment of the region's nature areas as well as collective efforts towards green development and resource efficiency.

Specific goals and granted projects:

1) The region's culture and heritage have become stronger and more vital

Nord: Tornedalens sommarsik – kultur och kulturarv, Our stories

Sápmi: AIDA, Aktene, Viesso duobddága/Levande landskap, Digital access to the Sámi heritage archives

2) Strengthened Sami language within the Sami population

Sápmi: Giellagáldu, Plupp

3) Improved conservation status of natural environments

Nord: Kustmynnande Vattendrag i Bottenviken, Tornedalens Sommarsik, natur och miljö, Arctic Fox Together, Tana River, SEAmBOTH, HALTI

4) The knowledge and expertise about green growth and resource efficiency in the region has increased in the public sector

Nord: Biogas i Tornedalen, EEBAK

Priority area 4- Common labour market

Cross-border collaboration can provide access to varying skills and competences within different areas and branches, equally in new and extended network promoted at the greater scale. Furthermore, an enlarged and more diversified job market support in increasing possibilities for both public and private labor market players as well as for the manpower. Prioritizing this area will lead to improvement in employment along with free movement of manpower across the borders.

Specific goals and granted projects:

1) Cross-border mobility in the labour market has increased

Nord: NORPÅ, Rampen, Arctic Labour, Bottenviksbågens ungdomar, Academic North

2) Strengthened skills and knowledge development in the Sami enterprises

Sápmi: Biegganjunázat, Sámi musihkkaakademijja

Program budget (EUR)

Priority area	Budget ERDF (MEUR)	Allocated ERDF (MEUR)	Allocated (%)
Research and innovation	11,34	10,76	95 %
Entrepreneurship	12,98	9,61	74 %
Culture and environment	11,34	9,00	79 %
Common labour market	3,36	2,18	65 %
Total	39,02	31,56	81 %

Priority area	Budget IR (MEUR)	Allocated IR (MEUR)	Allocated (%)
Research and innovation	2,34	2,07	88 %
Entrepreneurship	2,68	2,26	84 %
Culture and environment	2,34	2,00	85 %
Common labour market	0,69	0,47	68 %
Total	8,05	6,81	85 %

Project: Innovations and Industrial Internet

Primary goal of the project:

The goal is to identify the fundamental factors for innovation and employment of modern digital technique in order to develop the SMEs' capabilities to commercialize their products and services.

Expected Results:

- Gradual adaptation of a lifecycle perspective based on innovative products and innovative production strategies.
- Improved methodology and a suitable platform for the companies in order to create customer value as well as for whole process chain.
- Increased trustworthiness and reliability on the information flow together with possibilities to simulate, test and evaluate different alternatives with regards to ideas, products, services and even logistics.
- SMEs get an opportunity to develop their competence and interest to collaborate with the university and schools. This will result in a stronger connection between the practical challenges faced by the companies and benefit with the companies.

Project Description:

The project is based on a proactive and forward-looking approach towards innovation and development. The aim is to identify the critical factors for innovation and usage of modern technology in order to create a creative test environment. These creative environments will function as competence development tool for SMEs in the region with regards to modern product development as well as provide prospects to test, evaluate and discuss simulation, information and automation technologies, also known as digital methods support. The commitment to these test environments will work as a foundation to arouse interest and develop competences by daring to 'play with technologies'. This methodology will further develop learning and curiosity, instead of resolving company's routine problems. These test environments constitute possibilities for experimentation along with cross-border skill sharing and transfer. These test environments provide access to consortium's collective competence in modern product development inclusive of simulation, information and automations technologies, together with the planned demonstrations in the project for innovation and Industrial Internet.

Beneficiaries:

LTU, Centria, Högskolan Narvik

Project Duration: 2015-2018

Project Budget: 1 406 539 EUR

EU-funds: 663 532 EUR

IR-funds: 192 860 EUR

Public co-financing: 538 037 EUR

Private co-financing: 12 110 EUR

Project: CMT

Primary goal of the project:

- Increase competitiveness of regional SM-companies at an international level.
Enlighten on how the modern coating management technology (CMT + laser) can support in increasing the international competitiveness of SM-companies.
- Increase diversity in the business sector and support growth of start-ups in the quickly developing coating management market.
- Generate new and innovative materials to increase productivity, energy and effectivity in the mining, offshore and process industry.

Expected results:

- With their new products and services, SMEs can cater to newer markets where the latest technology is in demand.
- The knowledge in modern coating technology results in increased skills and competence which can contribute to better investment decisions.
- The end users (industries) get access to sustainable components which result in lower operating costs.
- The universities widen their potential to participate in Horizon 2020-collaboration.
- The project results in strengthening the contact between base industry, SMEs and universities

Project Description:

The Interreg Nord region is distinguished because of its robust industries like mining, oil, gas, offshore and steel. The industrial structure consists of fewer big companies and relatively high number of small and medium enterprises (SMEs). Furthermore, consequently to opening of northwest passage, hefty investments have been made in in offshore, energy and the infrastructure in north of Finland, Norway and Russia, resulting in even greater business opportunities. The industry is facing challenges with regards to different types of wear, corrosion, dynamic load and massive consumption of energy. To be competitive, energy effective and able to meet the challenging operating conditions, innovation is crucial with regards to new materials and production methods. Therefore, there is a need for research and development for the local SMEs to better attend to key industry players, get an access to developing markets and pave the way towards sustainable development in the region. To attain these goals, new cost effective "wire-based cold arc and laser hybrid" coating management methods are required.

Beneficiaries: Centria, LTU, UiT

Project duration: 2015-2017

Project Budget: 1 465 634 EUR

Approved EU-fund: 683 444 EUR

Approved IR-fund: 121 951 EUR

Public co-financing: 504 937 EUR

Private co-financing: 155 302 EUR

Project: NorFaST-HT

Main goal of the project

The primary goal is to update heat management technology from the traditional furnace and flame heating to the ones enhanced in efficiency and characteristics, for example induction and resistance heating

Expected results:

An interdisciplinary understanding for simulation of quicker heat management at an industrial scale. The project partners have comprehensive equipment and an ability to fulfil varying company needs.

Project description:

Plenty of research is being conducted in Scandinavia with regards to steel and heat management systems in steel. NorFast(HT) project connects this research collaboration in Scandinavian, thereby creating an attractive research environment catering to the industry needs.

Norfast-collaboration´s primary focus is to investigate the opportunities and problems with quicker heating managements in production and refining of steel under different phases, right from casting to the final product. This collaboration offers an exceptional research environment for casting, rolling, heat treatment and tailoring of products. Utilization of the result over the course of project is short-term (1-3 years). However, via collaborative funding, long-term research collaboration opportunities can also be strived for among various groups: the ones participating in project and the ones that are currently not associated with the consortium. The project presents a variety of expansion opportunities. For wear-resistant steel producers for example, there is a possibility to build product machines with modern heat management lines based on induction heating. This makes production of harder steel types possible that is comparatively more cost effective and environmental friendly processes.

Beneficiaries: Oulun yliopisto, LTU,

Lunds Universitet, Mefos

Project Duration: 2015-2018

Project Budget: 1 669 107 EUR

Approved EU-fund: 1 084 921 EUR

Approved IR-fund: -

Public co-financing: 529 186 EUR

Private co-financing: 55 000 EUR

Project: RESEM

Primary goal of the project:

The main purpose of the project is to create a consortium in northern Finland, Sweden and Norway possessing high competence in the use of remote sensing methods in the northern mining areas (and other related business areas, like hydroelectric).

Desired result:

The project will result in a solid cross-border collaboration with enhanced competitiveness as well as an application to Horizon 2020-program. This project will result in building a solid information base in relation to remote analyses with modern technique in complete lifecycle of mines. The project leads to the development and commercialization of various innovative and effective monitoring and management tools.

Product description:

Project RESEM will develop opportunities for business activities with the help of data from remote sensing for increased safety in mining operations along maintaining environmental control. These techniques are undergoing quick changes, resulting in the possibility to collect data in safer, more exact and cost effective way. Satellites can be used for data collection at different levels and deformation in ponds. Drones can be used to gather thermal images in order to get a picture of eventual leakages, ground water hydrology etc. The project is going to explain and exemplify how ´remote sensing´ can be used to effectively collect and adapt to data with regards to mining operations. It applies to establishment of a mine, design of constructions of the type of mining ponds, hydrological modeling, monitoring of ponds and mining structures as well as monitoring of the environmental in general. The project strives towards improved safety and increased capabilities in various environmental considerations. Methods will be developed where distance technology, together with land-based technology, will provide information for a safer and relevant supervision under complete lifecycle of a mine.

Beneficiaries: Oulun yliopisto, LTU,

Norut

Project Duration: 2015-2018

Project Budget: 1 039 024 EUR

Approved EU-fund: 455 000 EUR

Approved IR-fund: 169 512 EUR

Public co-financing: 414 512 EUR

Private co-financing: -

Project: RENEPRO

Primary goal of the project:

The purpose of this research project is to develop, test and present a unique production concept that unites bio economics, metal production and production of chemicals/ fuel. The project is aimed at developing bio-based reducing agents suitable for use in furnace that can replace fossil-based reducing agents.

Expected result:

- Optimal production method for bio-based reducing agents with regards to energy effectiveness, characteristics as well as their costs.
- Further information of the availability of bio-based reducing agents suitable for use in modern furnaces.
- New refining methods for gases suitable for steel industry's process gases, in order to produce valuable products for the international markets.
- New operational models that unite process modules of bio-economy, steel industry and chemical industry.

Project description:

Due to the political decisions, for example from EU, the steel industry has an obligation to substantially reduce their CO₂ emission over following years. Simultaneously, it is also crucial to maintain the economic competitiveness in the industrial sector as well as to preserve and even improve employment and welfare in the northern areas. Therefore, in order maintain the CO₂ reduction at an economical level, it is needed to develop new and unique branch-wise integrated platforms. The central goal with this research project is to show the technical, economical and environment-friendly feasibility together with unique production platforms for bio-economics and steel industry (integrated production of steel, bio-based reducing agents and chemical production) with the help of lab-investigations, pilot level tests, system analyses and the estimations of carbon footprint.

Beneficiaries: Oulun yliopisto, LTU,

Mefos, Future Eco

Project Duration: 2015-2018

Project Budget: 1 160 346 EUR

Approved EU-fund: 754 224 EUR

Approved IR-fund: -

Public co-financing: 385 494 EUR

Private co-financing: 20 628 EUR

Project: SusMinNor

Primary goal of the project:

The aim of the project is to strengthen collaboration between Lapland and Norrbotten within sustainable mining- operations. Collaborative network will be comprised of universities, research institutes, and business development organizations.

Expected results:

- The publication 'Sustainable extraction operations- competence and knowhow'.
- Meeting between EU's mining areas and universities with competence in raw-materials.
- To promote cross-border collaboration

Project Description:

The European Commission's Directorate-General for Enterprise Mattia Pellegrini has proposed that Lapland reconcile the EU's extraction areas and organize the first meeting in Finnish Lapland. It has also been proposed that the EU's commodity commissions for universities 2015 to be organized close to the meeting.

During the project period, cross-border cooperation in sustainable mineral extraction will be intensified. In the project, 1-2 cross-border meetings / workshops are conducted within the project for the exchange of experience between the various actors. These meetings will also lead to new cross-border initiatives in sustainable recovery.

Beneficiaries: Lapin liitto, LTU,

Lapin yliopisto

Project Duration: 2015-2016

Project Budget: 220 572 EUR

Approved EU-fund: 143 368 EUR

Approved IR-fund: -

Public co-financing: 77 204 EUR

Private co-financing: -

Project: New possibilities for CLT

Primary goal of the project

The main goal is to increase knowledge on production of CLT along with understanding varying CLT characteristics. This implies producing new varieties of CLT with new characteristics, introducing CLT in the existing construction processes as well as creating possibilities for an application in the Horizon 2020.

Expected Result:

Increased use of CLT by exploring new areas of its utilization as well as increased production of new CLT in the region, in existing as well as new companies.

Project Description:

The social structure along with continuous expansion in bigger regions implies the increase in the market for high multiple-storey apartment buildings. Therefore, the wood industry has extensive opportunities to contribute to this social transformation. The existing wood-based construction system in Sweden has a capability to construct 6-8 floored building, while there is a growing demand to construct significantly higher buildings.

To cater to this demand, it is required to have new thinking, innovative solutions and further development in the whole construction system. The preliminary investigations conducted so far have revealed that the rigidity of the walls and floors is important to cope with demands of load capacity and dynamic characteristics. As per various studies conducted up till now, the current cross laminated timber (CLTs) do not meet required standards.

The project will seek potential collaboration partners in Norway to build a CLT-innovation-network of skills and support for the development of companies. Such a developed and diverse innovation-network would increase the likelihood of participation in Horizon 2020-project. Furthermore, the project is going to identify and develop new constructional solutions by simulating and analyzing the material to devise new and competitive solutions. Later, these solutions are going to be tested with help of quicker prototypes to further enhance the process of product development. This part is customer-focused since the pilot project is based on the customer needs. Furthermore, an ongoing insecurity with regards to the quality and characteristics of slabs is needed to be addressed. For example, among other things, the use of these slabs in humid situations is required to be tested for purpose of utilization in both indoor and outdoor products. Lastly, studies on adaptation to new construction processes where CLT is a robust alternative to the traditional material will also be conducted; this will further lead to need for new methods, machines and ways of working.

Beneficiaries: LTU, Digipolis Oy,

Lapin amk, SP Sveriges Tekniska

Institut, Centria

Project Duration: 2015-2018

Project Budget: 1 305 840 EUR

Approved EU-fund: 858 392 EUR

Approved IR-fund: -

Public co-financing: 447 448 EUR

Private co-financing: -

Project: Live Nord

Primary goal of the project

Live Nord project's main goal is to gather, promote and visualize different types of cross-border data present in the science centers of northern Norway, Sweden and Finland.

Expected Result:

The project will result in three different products. The first product is a visualization instrument that contains real-time data and statistics for a popular scientific visualization. This visualization tool is going to be used at a permanent exhibition station present in those three science centers.

The second tool is a collection tool that helps science centers and other interested parties in creating a data collection project where everyone can contribute in form of information and data.

The third tool is an inter-regional planning tool which is going to enable detailed quantities of data within the reach of data centers. This planning tool would be accessible via the internet. The project will also work as a platform for development and evaluation of new types of visualization and interaction techniques to be used in various exhibitions. Some examples are: use of VR glasses, 3D-screens or 'touch-free' interaction system to make digital installations in science center's attractive and easier to navigate.

As a result of this project, an application to program "Science and People" in Horizon 2020 is to be made.

Project Description:

The visualization tool is going to be directed towards support functions of integrated cross-regional planning aiming towards more sustainable regional collaboration. The exhibitions are open for public. The data is going to be collected from the available open references, to be further complemented by data collected via development of new tool for the public participation. The collected data will be visualized on 'multitouchtable' / walls at participating science centers in addition to web-based solutions.

Beneficiaries: Lapin yliopisto,
Teknikens Hus, Agency 9, Nordnorsk
Vitesenter/ Norut
Project Duration: 2015-2018
Project Budget: 1 202 788 EUR
Approved EU-fund: 490 257 EUR
Approved IR-fund: 224 273 EUR
Public co-financing: 420 591 EUR
Private co-financing: 67 667 EUR

Project: MinNorth

Primacy goal of the project:

The vision is to decrease the dispersion of population from mining areas with aim to preserve the unique environment in the northern regions.

Expected Result:

In order to hinder the transfer of pollution from the mining areas, the project is expected to develop new environmental techniques, commercialize and widen the applicability of existing environmental techniques.

Project Description:

In this project, the evaluation and widening of related areas is to be carried out for technical sampling and environment measurements at the pilot and field level, before the actual products, instruments and services can be commercialized and implemented by the small and medium companies located in the region. It is also important to develop cost effective and environment- friendly sampling methods of analyses. The overall aim is to decrease the environmental affects as result of mining operations in the region.

Four different types of techniques are going to be developed:

- 1) Development of a method that can trace the transfer of pollutants in the mines, mining areas and in the surroundings by integrating geo-physical and geo-chemical methods.
- 2) The construction of wetlands in order to decrease nitrogen and metals, bio absorption materials to lower the metals and nitrites.
- 3) Covering methods for marine disposal of residues.
- 4) Development of covering system for protection of waste from the mines.

Beneficiaries: LTU, GTK, Oulun

yliopisto, UiT

Project Duration: 2016-2018

Project Budget: 1 411 346 EUR

Approved EU-fund: 663 904 EUR

Approved IR-fund: 185 468 EUR

Public co-financing: 556 974 EUR

Private co-financing: 5 000 EUR

Project: Arctic Energy

Primary goal of the project

1. To develop and test a simulation method for modelling of self- sustaining and carbon-free regional production of renewable energy in the rural areas of the north.
2. To implement the established simulation methods as a tool for enterprises existing in the area.
3. To create a competence-network between enterprises and research project.

Expected Result:

As a result to this project, the use of renewable energy will be increased. This will further create new opportunities for business operations, markets and service opportunities for SMEs, in addition to opportunities for equipment vendors, service providers and energy distributors existing in the area.

The project is going to result in two competence-networks.

Project Description:

A developed planning model is to be tested in several different areas in northern parts of Sweden, Norway and Finland. With the help of the model one can do several estimations with regards to transference to renewable energy, to be studied on an area (for example in a municipality, part of a city/town or any other community).

Furthermore, one can even review different hybrid models for renewable energy, assess their profitability in different energy production alternatives, and compare them with other energy resources, for example, oil. The model is going to help in decision making, thereby optimizing energy production already at planning stages.

A network, consisting of enterprises and research and development organizations participating in development of simulation model, is also going to be created in this project. Out of this, the project seeks to further build a network of companies which can provide service of ´ modeling of renewable energy production ´, which is to be applied in the company's sales to the pilot project items to begin with. Upon completion of the project, a complete service and production concept along with compiled references is expected to have been established. The simulation model will help in smartly mapping future powerlines. The project seeks partners specializing in intelligent networks in order to form a consortium. This will further help in crafting international applications in various programs, such as Horizon 2020.

Beneficiaries: Iin Micropolis, LTU,

Lapin amk, Centria, Norut Narvik, UiT

Norges Arktiske universitet

Project Duration: 2016-2018

Project Budget: 1 316 127 EUR

Approved EU-fund: 585 968 EUR

Approved IR-fund: 207 317 EUR

Public co-financing: 518 769 EUR

Private co-financing: 4 073 EUR

Project: Smart WPC

Primary goal of the project

The project aims to develop functionalized wood plastic composites (WPC) and hybrid materials. This will be done by combining the functionalized WPC and high-performance fibers from regenerated cellulose (MMCFs) to extend the use of WPC to more advanced applications.

Expected Result:

- Production of sound and heat insulating WPC with electrical functions and improved structural properties (pilot scale).
- Design and manufacture of hybrid structures based on functionalized WPC and high performance regenerated cellulose, to develop advanced composite products for the construction, transport and electronics industries.
- Development and validation of accelerated test method (ATM), which can be used in both academia and industry to predict the long-term properties of polymeric composite materials.
- Dissemination to the academic, business and the public; organize seminars, courses and workshops with audience customized content and focus, scientific publications, new R & D projects in the field of bio-based composites after the project end.

Project Description:

The project is to mobilize research efforts in the northern regions of Sweden and Finland, and to stimulate cooperation between R & D actors and industries for the development of bio-based functional materials. Functionalized WPC and high performance cellulose fibers (MMCF) should be tailored for different application areas. The project will conduct joint research activities and disseminate the results to those industries that are looking for sustainable solutions with innovative materials and cost-effective processing techniques to generate economic and environmental benefits. The project will initiate pioneering work to introduce new features in the commercially applied bio-based composite materials. This will expand the fields of application of these materials to more advanced applications, such as flooring with built-in de-icing, structural designs for flexible electronics (printed circuits and antennas, electronic components, parts for electric vehicles). With the help of the project, the economic and social value of forest resources in the region will increase, thus favoring sustainable development of industry and society. The knowledge obtained in this project can be used by universities to increase awareness of new opportunities for bio-based materials and eco-efficient manufacturing. R & D actors will help SMEs to develop their skills to match the new capabilities of the developed materials, training, consulting and business projects, which will also benefit the growth of business and jobs.

Beneficiaries: Sicomp, LTU, Centria

Project Duration: 2017-2019

Project Budget: 1 049 500 EUR

Approved EU-fund: 682 174 EUR

Approved IR-fund: 0 EUR

Public co-financing: 367 326 EUR

Private co-financing: 0 EUR

Project: WAX

Primary goal of the project

The project's goal is to develop methods that enable extraction of natural wax from cranberries and blueberries. Natural wax should be analyzed with scientific methods and its chemical and physical characteristics will be compared with other available waxes. Potential use in technical applications, such as biocomposites will be studied theoretically and experimentally. Natural wax based products must also be analyzed from the business and marketing of views with the aim of exploring new niche applications and new products. The project will increase awareness of this valuable Arctic natural resource.

Expected Result:

- The project has created societal interest, increased awareness and appreciation of our northern natural resources.
- The project will contribute to improving the bio-economy and circular economy and contributed to the "smart specialization" in the Arctic region.

Project Description:

In the Arctic and Scandinavia, there is an excellent resource in berry wax which is currently not utilized. Extraction of natural wax provides opportunities to develop new business and commercialization of new products. This is likely to increase the interest in the berries efficient use compared to the current 5-10% of the annual berry harvest that is taken advantage of today. The project partners in Finland, Sweden and Norway has expertise in various fields such as plant biology and genetics, berry industry, bio composite technology, chemical and physical analysis and processing. This wax may prove to be a very valuable natural resource if it can be recovered economically.

Beneficiaries: Oulun yliopisto, Oulun amk, LTU, NIBIO

Project Duration: 2017-2019

Project Budget: 1 000 797 EUR

Approved EU-fund: 510 212 EUR

Approved IR-fund: 115 854 EUR

Public co-financing: 374 731 EUR

Private co-financing: 0 EUR

Project: WIRMA

Primary goal of the project

The project's vision is to achieve full readiness for rapidly changing weather conditions in the Arctic traffic. The project's ultimate aim is to research and demonstrate a viable industrial internet systems as decision support for road maintenance in winter through smart devices and sensors that are connected to computers, real-time analyzes and forecasts and simulations.

Expected Result:

- 1) Research and demonstration of a new hybrid optical measurement technique that can provide nearly complete characterization of winter conditions, which provides significant new data on winter conditions.
- 2) Research and demonstration on modern vehicles based IoT solutions and related road weather sensors that enables data collection vehicles in real time.
- 3) A demonstration version of the support system for government decisions about winter maintenance of the northern and Arctic routes. The aid scheme is based on vehicle-based observations in real time and on projections developed on the basis of the observations.
- 4) A framework for planning the winter maintenance of the road infrastructure in weather conditions with rapid changes
- 5) Research and demonstration of the production of better road condition and road weather projections based on vehicle-based observations
- 6) Examination of how the result of the project affects the value of the network and the community, including the results of scalability and replicability.

Project Description:

The need for transport in the north faces major challenges through more heavy transport the commodity-intensive industry, increased tourism and more private trips. This transportation needs require secure, accessible and sustainable road infrastructure in all types of weather and road conditions. Today, the winter road maintenance is much based on stationary weather stations that report the meteorological data, as well as subjective reporting of vehicles and controllers. By transmitting real-time data from vehicles travelling on the road to a cloud-based system, a comprehensive real-time view of the prevailing conditions on the roads is generated. The development of visualization and decision support on the basis of the new information will create a more efficient winter road. External measurement and data communication system will be placed on the vehicle to demonstrate a commercializable Industrial Internet optimum solution for winter

Beneficiaries: Lapin amk, Ilmatieteen

laitos, Foreca oy, LTU, Casselgren

Innovation AB, UiT

Project Duration: 2016-2019

Project Budget: 1 171 733 EUR

Approved EU-fund: 528 391 EUR

Approved IR-fund: 164 836 EUR

Public co-financing: 397 142 EUR

Private co-financing: 81 364 EUR

Project: VanProd

Primary goal of the project

The main goal is to develop vanadium recovery technologies for solid and liquid wastes, which are currently not utilized in Nordic area and additionally pose an environmental threat to the surrounding milieu.

Expected Result:

The main outcome will be the optimized chemical and/or biological extraction process for different solid wastes and the optimized recovery process for liquid wastes that can be utilized by the companies.

Project Description:

1. Characterize vanadium wastes in the Nordic region. We plan to sample waste materials and leachates from several sites (Mustavaara, Selvåg, Tellnes, and Bruvann) and investigate their chemical, mineralogical, and microbial properties.
2. Develop an innovative extraction methodology for vanadium from solid mineral waste with chemical and biological leaching.
3. Develop vanadium recovery from liquid waste streams.
4. Implement/modify the vanadium recovery system from pregnant leach solutions.
5. Increase the competitiveness of Nordic industries in the growing international market for clean technology that can be implemented by SME.

Beneficiaries: Oulun yliopisto, UiT,

Kjeøy Research and Education Center

Project Duration: 2017-2020

Project Budget: 883 865 EUR

Approved EU-fund: 194 176 EUR

Approved IR-fund: 292 042 EUR

Public co-financing: 306 672 EUR

Private co-financing: 90 975 EUR

Project: C3TS

Primary goal of the project

The overall objective of the project is to increase international competitiveness for regional SMEs in the engineering industry by introducing 3D writing in metal as new manufacturing technology.

Expected Result:

- Identify, develop and establish a long-term arctic cooperation platform for metal component manufacturing using 3D writing, where regional experts from industry and academia between the three countries can meet and collaborate
- Mobilize regional SMEs in manufacturing and support at different levels that ultimately lead to the implementation of 3D writing
- Develop new approaches to 3D writing research that enable future SME affairs for the region

Project Description:

The project will create a collaboration platform that supports the regional engineering industry to implement 3D writing technology for mainly metallic products. Globally, 3D writing has recently emerged as a promising alternative.

The project aims to support companies in the region to participate in a simplified production process through the project for creating, 3D writing, testing and selling innovative parts and products of metal. Within the project, industry and academy experts will meet to jointly allow innovative design design and then 3D print demonstration models. For these demonstration models, the project will also develop new testing methods and create and analyze new business models.

The project will also investigate a new recycling technique, which means that metal scrap is melted by a laser beam and a new product is created from the drops. Another idea that will be tested in the project is to use metal ore powder from mines to create new products, this technique would avoid costly manufacturing processes for new powders.

Oulu University is currently installing the first 3D metal printer in the region, which will be used in the project to print produced prototypes. Luleå University of Technology comes in the project to provide laser lab for basic studies for 3D writing. The University of Tromsø assists in the project with skills in innovation platforms, business models, market analyzes and opportunity and risk analyzes.

Beneficiaries: LTU, Oulun yliopisto, UiT

Project Duration: 2017-2019

Project Budget: 945 676 EUR

Approved EU-fund: 479 106 EUR

Approved IR-fund: 104 029 EUR

Public co-financing: 307 294 EUR

Private co-financing: 46 000 EUR

Project: Sea-Surf-Snow

Primary goal of the project

The project aims at creating better resource utilization of the region's natural resources by producing lightweight, durable composite materials made of seaweed for surfboards and snowboards.

Expected Result:

Seaweed are used primarily for food energy and, to a lesser extent, for fibers. The project aims to investigate how you can use biorestories from production to create new products using available technology and knowledge, thereby creating processes and products with low energy footprint and better use of the entire raw material.

Through the project, you can increase the profitability of the companies that work with composites, which in the long run create more sustainable and attractive products. This in turn creates a broader customer base and creates a new business area based on a sustainable resource.

Project Description:

Luleå University of Technology has the competence to produce composites and nanocomposites of natural fibers and will support the companies in basic research and development in laboratory scale. The companies involved help with harvesting and processing of seaweed and composite production and product design.

In Norway, there is access to and knowledge about seaweed at Northern Company, which is a company that harvests and sells seaweed. They will harvest the seaweed two times and make a chemical analysis of the seaweed that will provide knowledge about how to handle it to make sheets of composites.

Midnight Composites in Sweden deliver products and services in advanced fiber composites, and in the project, they investigate a composite casting method using liquid resin to make sheet composites.

Treeform in Finland is a design and product development company focusing on finding nature-inspired solutions. They will develop a sandwich construction with seaweed and carbonized nanomaterials that will be tested in a snowboard demo.

Beneficiaries: LTU, Treeform, Midnight

Composites AB, The Northern company AS

Project Duration: 2017-2018

Project Budget: 133 579 EUR

Approved EU-fund: 71 925 EUR

Approved IR-fund: 9 756 EUR

Public co-financing: 34 530 EUR

Private co-financing: 17 368 EUR

Project: AMCA

Primary goal of the project

The primary goal is to create an architecture of arctic communications and a roadmap. When the gaps and the required support and their timelines are put together, the result is the roadmap that describes what is needed and when by whom.

Expected Result:

The first expected result is a research report describing the architecture and roadmap for the implementation of data transfer in the arctic area. The second result is one or more Horizon 2020 applications, where solutions to problems identified in the roadmap are presented. The third is to inform about the results of the project to leaders, politicians, companies, researchers and the public in the region.

Project Description:

Telecommunication capabilities in the Arctic and north remote areas do not correspond modern state. This means that industry, society, education and people in the area do not enjoy the benefits of digitalization like others do

The aim of the project is to describe how the problem could be solved by creating the architecture of arctic communications solution. When the gaps and the required support and their timelines are put together, the result is the roadmap that describes what is needed and when by whom. The roadmap allows to create projects as well as regulatory and political process that will solve the problems related to the arctic communications solution.

Local industry from Finland and Sweden has been invited to participate in the project's advisory group, including representatives from Norwegian universities.

Beneficiaries: Oulun yliopisto. LTU

Project Duration: 2017-2019

Project Budget: 375 713 EUR

Approved EU-fund: 244 215 EUR

Approved IR-fund: -

Public co-financing: 131 498 EUR

Private co-financing: -

Project: New technology for energy-efficient particle separation from flue gases.

Primary goal of the project

The project will strengthen the competencies of participating actors in the field of flue gas purification and create an international reputation for the technology, which today is not used commercially to any significant extent.

Expected Result:

- The long-term stability of the absorption plant is determined by at least one year of continuous operation
- A techno-economic evaluation of the market in the Nordic countries is presented as a basis for assessing the potential of technology
- A sustainability assessment of the technology has been carried out
- In positive research results, design of biofuel fuel systems should be developed in close cooperation with industry.
- Trying alternative fuels gives interesting suggestions to new markets for the mining industry
- Sewage combustion with levels of flue gases within the emission requirements of smaller plants allows for less locally located combustion plants

Project Description:

A large number of biofuel-fueled fireplaces exist within the region and constitute potential applications for the intended technology. Effective flue gas purification for small and medium-sized heat plants is not available today and the current technology that the project will test will result in positive research results to create new products.

Both northern Sweden and northern Finland have a significant engineering industry, which are potential stakeholders to produce a commercial product for flue gas treatment. Four Swedish and six Finnish companies will have access to knowledge about the technology that is built up through the project. The project will also investigate flue gas purification on the burning of biopellets containing residues from mining activities to investigate the potential for utilizing energy currently unused.

By jointly developing and disseminating knowledge about cheaper systems for flue gas purification that meet environmental requirements, technology can be of interest to municipalities in the region, while reduced transport results in less environmental impact.

At Luleå University of Technology there is knowledge about flue gas purification with absorption technology. Luleå University of Technology and Oulu University also have skills in CFD technology that complement each other. Oulu University has competence in sustainability research as well as measurement and analysis of flue gases. Lapin AMK has specific expertise in the creation of pellets by mixing mines with biofuel. Lapin AMK and Oulu University also have knowledge about techno-economic analyzes.

Beneficiaries: LTU, Lapin amk,

Oulun yliopisto

Project Duration: 2018-2020

Project Budget: 802 873 EUR

Approved EU-fund: 521 844 EUR

Approved IR-fund: -

Public co-financing: 281 029EUR

Private co-financing: -

Project: ARCTIC-ecocrete

Primary goal of the project

The overall objective of the project is to improve the competitiveness, vitality and employment of the arctic area by, in collaboration with the northern region's most important research and business partner, improving concrete species and production technologies that are environmentally friendly, energy efficient and utilize sustainable regional tributes from industry and power plants.

Expected Result:

The expected result is a strong, regional and cross-border cooperation network between cement and concrete researchers and industry.

Another significant result is an innovative, more competitive and vital business. The expected result in the technical part is for field conditions complete, organic concrete solution suitable for winter concrete and enables concrete casting at temperatures down to -25 ° C and also withstand long transport distances.

Project Description:

The northern and cold climate, the long distances and the polar night represent a challenge for concrete construction. All of these factors are new challenges that require innovative solutions to ensure safety and quality in construction. A significant disadvantage and brake for building and development in the northern area is avoiding building during the most demanding winter months to reduce risks. This leads to greater construction costs and layoffs of competent employees, which you sometimes lose. If it is not possible to find good solutions, all these factors can together prevent or reduce the desired development in the northern area. In the northern area millions of tons of inorganic industrial waste are generated annually. The bulk of this consists of the mining industry's waste stone and enrichment sand. Other significant waste materials consist of fly ash generated by burning peat and wood and the slag of the metallurgical industry. These wastes are currently mostly on dumps or landfills, although they could at least partly be used as raw materials in cement and concrete. Waste management costs are increasing as legislation limits the use of dumps and landfills. In the northern area surrounded by untouched and vulnerable nature there is a great need for sustainable use of this waste material. In addition, the use of these waste materials in local construction would reduce produced CO2 emissions compared to traditional cement production and would enable growth of responsible and sustainable industry.

Beneficiaries: Oulun yliopisto, LTU

Project Duration: 2018-2020

Project Budget: 1 364 343 EUR

Approved EU-fund: 547 456EUR

Approved IR-fund: 261 029 EUR

Public co-financing: 409 516 EUR

Private co-financing: 146 342 EUR

Project: Flexible Transparent Conductive Films as Electrodes

Primary goal of the project

The project will channel the excellent but individual research competencies of coal-based nanomaterials in northern Sweden and Finland for the benefit of the region's technology-based industries.

Expected Result:

- To develop a validation triangle between participating universities to manufacture, characterize and model carbon based nanomaterials, as well as thin film electrodes based on these.
- Developing computer models to effectively investigate the characteristics of the functionalized graph and metallic carbon nanotubes.
- To study the characteristics of the functionalized graph and metallic carbon nanotubes for use in thin film electrodes by means of simulations.
- To design and implement new experimental methods for inkjet writing of thin film electrodes.
- Experimentally evaluate the mechanical, electrical and optical properties of inkjet thin film electrodes.
- Identify new areas, technologies and industries that can benefit from improved thin film electrodes, and disseminate knowledge to companies in the program area by organizing workshops.
- Publishing scientific articles in highly rated journals to maximize the spread of our knowledge to researchers and companies in the world.
- To jointly organize a session at an international conference focused on thin film electrodes made of carbon nanomaterials.
- To broaden cooperation between the three participating universities and industry-based partners in the region.

Project Description:

Transparent, conductive and flexible electrodes are one of the most important components of the development and design of new consumer electronics for everyday use. Currently, such electrodes are based on expensive metals such as indium, which is one of the more rare metals in the earth's crust. Manufacturing is also done at high cost and with advanced technology. The project proposes technologies for developing flexible, transparent and conductive electrodes based on integrated metallic carbon nanotubes, functionalized graphs and abundant metals. The goal is that the electrodes should be able to manufacture with scalable processes, such as spray coating, or so-called scroll-to-roll printing.

Beneficiaries: LTU, UmU, Oulun

yliopisto

Project Duration: 2018-2020

Project Budget: 944 363 EUR

Approved EU-fund: 613 836 EUR

Approved IR-fund: -

Public co-financing: 330 527 EUR

Private co-financing: -

Project: Nordic Business Support

Primary goal of the project

The goal for Nordic Business Support is to create collaboration and to build clusters in order to facilitate bigger and better commercial exchanges between small and medium enterprises in the region.

Expected Result:

Establishment of cross-border collaborations between small and medium enterprises (SMEs) in northern Finland, Sweden and Norway.

Project Description:

Following activities are planned under project Nordic Business Support:

- Increase cross-border activities and thereby competitiveness for small and medium enterprises.
- Strengthen international collaboration between SMEs.
- Widen the understanding for regional similarities and differences with trade and sales.
- Create new clusters and/or group activities for the companies.

Beneficiaries: Oulun kaupunki,

Norrbottens Handelskammare,

Bedriftskompetanse AS

Project Tid: 2015-2018

Project Budget: 1 885 657 EUR

Approved EU-fund: 800 800 EUR

Approved IR-fund: 310 244 EUR

Public co-financing: 651 362 EUR

Private co-financing: 123 251 EUR

Project: Arctic Image

Primary goal of the project

Project Arctic Image will create more intensive and strategic collaboration between AV-branch and other branches, specifically within the tourism industry and regional marketing.

Expected Result:

- Increased visibility of the region and its AV-productions on selected market segments with help of an intensive collaboration.
- At least 30 tourism related companies have received marketing related material. Furthermore, at least 10 companies within the AV-branch have received new collaborative partners in the area. Further, those companies have also developed their skills with regards to collaborations, sponsorships and product placement.
- Increased in tourism activity and enhanced attractiveness of the region.

Project Description

The Arctic Image project strengthens the collaboration within the AV-branch, meaning the regional marketing and tourism industry in the northern parts of Finland and Norway. The project develops the operative models to enhance visibility of the region with the help of AV-productions in marketing and tourism industry. Plenty of material produced in Nordkalotten has been promoted internationally, for example TV- or film productions created in the area's landscapes, stories arising from the origin of people and their conditions. However, such material has not yet been fully benefited from in marketing and image building of the region. In this project, with help of AV-productions, northern Finland, Norway, and Sweden will be marketed at an international level. This marketing is targeted specifically towards the markets that are promising for tourism industry's perspective.

Beneficiaries: Oulun kaupunki,
Naturpolis Oy, Keskipohjanmaan
koulutusyhtymä, Kainuu ammattiopisto,
FilmCamp AS

Project Duration: 2015-2017

Project Budget: 1 749 417 EUR

Approved EU-fund: 654 874 EUR

Approved IR-fund: 279 367 EUR

Public co-financing: 724 263 EUR

Private co-financing: 90 912 EUR

Project: Visit Arctic Europe

Primary goal of the project:

The aim is to increase cross-border networking and collaboration. Project is meant to improve availability, exercise combined tourism marketing along with development of new and collaborative product packages that satisfy the demands of international tourists.

Expected Result:

- Northern Scandinavia becomes a collective and internationally recognized arctic tourist destination possessing greater quality and competitive tourism opportunities in the industry.

Project Description:

This project focuses on tourism marketing to strengthen networking and collaboration between tourism entrepreneurs within the area as well as improve overall attractiveness of the destination for international tour operators. Together with the tourism entrepreneurs, the project aims to develop the products and experiences based on various themes. This will further help in devising a well- coordinated marketing strategy. The aim is to customize new tourism products to increase the total number of tourists, especially in low seasons, and increase the tourists length of stay. The project will strive to reach specific target groups. The digital marketing techniques are going to help in creating interest among target groups as well as help in getting a quicker feedback. This will help strengthening the collaboration and profitability among regional SMEs. As a result of combined skills and increased competitiveness, the travel airlines will be motivated to arrange direct flights to and from targeted markets.

Beneficiaries: Finnish Lapland

Tourist Board ry, Swedish Lapland

Visitors Board, NordNorsk Reiseliv AS

Project Duration: 2015-2017

Project Budget: 6 491 802 EUR

Approved EU-fund: 2 780 161 EUR

Approved IR-fund: 487 805 EUR

Public co-financing: 2 580 406 EUR

Private co-financing: 643 430 EUR

Project: New Food from the Arctic

Primary goal of the project:

Goal is to increase competitiveness, growth and profitability of food-related companies in northern parts of Finland, Sweden and Norway.

Expected Result:

The project is going to result in following:

- The participating companies demonstrate increased profitability and growth as well as increased number of employees.
- There is an enhanced variety of products, goods and services based on locally based raw materials, that is: raw materials from the north.
- A variety of products have reached to at least one market, both nationally and internationally.
- Participating companies have improved knowledge and skills on innovative processes and on refining or processing of locally based raw materials.
- More companies have established a concrete cross-border commercial collaboration in northern Finland, Sweden and Norway.

Project Description

In the previous program period, a project named 'Mat från hav till hav/ food from ocean to ocean' was led. Experiences from that project demonstrated that the companies operating in the food branch struggle with poor profitability. Due to enormous competition in food industry at a global level, small companies find it harder to maintain both quantity and price. Additionally, only few products from the region that can compete at a niche level while locally based raw materials cannot be refined or processed at larger extents. However, the unique and natural raw materials available in the region have marketing and selling potential under well-known names such as polarnatt, norrskan och midnattsol. In addition to identified opportunities and challenges that this region presents, there is also a need to introduce an innovation atmosphere at small scale with regards to food production. There is a need for companies to enhance their skills in innovative processes and internationalization. The project is going to involve some researchers, Group of excellence, to facilitate companies in their innovation processes.

Beneficiaries: Hushållningssällskapet

i Norrbotten-Västerbotten, ProAgria,
Oulu ry/Oulun Maa- ja kotitalousnaiset,
Bioforsk

Project Duration: 2015-2018

Project Budget: 604 525 EUR

Approved EU-fund: 221 721 EUR

Approved IR-fund: 101 220 EUR

Public co-financing: 220 608 EUR

Private co-financing: 60 976 EUR

Project: Business Model Innovation

Primary goal of the project:

Main goal of the project is to increase the competitiveness of small and medium enterprises (SMEs) catering to industrial customers in the region.

Expected Result:

- Methods and models for further development and implementation of advanced business models.
- Updated "ProcessIT.EU Roadmap" that can affect the policy and decision makers as well as financiers within research and development (R&D) area.
- Increased cross-border collaborations between the region's SMEs, processing industry, industrial networks as well as academics for creation of advanced business models.
- To spread and apply knowledge and 'best practice' in the region with help of industrial networks.
- New methods of use for SMEs that have commercialized their advanced business models towards regional and global customers.
- Increased internationalization of SMEs with help of business and R&D activities.

Project Description

As this project is aimed towards process industry (customers to SMEs), it is important to form its basis depending on customer's (process industry) needs. This means looking for new business opportunities that can resultantly increase the competencies of regional SMEs, most importantly via combination of different service and product in order to provide more advanced product-service offerings, meaning more advanced and valuable offerings. Here, the SMEs take full responsibility of services over the whole life cycle of offerings. Offerings providing functional results, where the providers (i.e. SMEs) maintain full ownership and generate specific results like production volumes are of great interest. In this way the company can increase profitability due to product differentiation, increase possibility of profitability margins and stable income over the time. Apart from the development of new business models, regional SMEs will also benefit from the establishment of new collaborative models and networks leading to greater participation in the European R&D project. A lot of SMEs do not have access to the researchers, research networks and financiers required to conduct advanced research on new technologies that can be implemented for new offerings/services/products. It is therefore important that SMEs are able to access these research capacities/ networks/ financiers as well as potential partner companies possessing the complementary capabilities, competencies and technologies in order to improve their competitiveness overtime.

Beneficiaries: Lapin amk, Nivalan

Teollisuuskylä, NIHAK, Oulun yliopisto,

IUC, LTU

Project Duration: 2016-2019

Project Budget: 1 706 574 EUR

Approved EU-fund: 873 191 EUR

Approved IR-fund: 181 626 EUR

Public co-financing: 544 607 EUR

Private co-financing: 107 150 EUR

Project: Development of Nordkalotten's border services business guidance

Primary goal of the project:

The long term goals of the project are to improve the total number of small and medium sized enterprises (SMEs) operating across the border, to promote the internalization of SMEs, to provide opportunities for reaching to new markets.

Expected Result:

The project is going to create adequate competencies on and companies' operating conditions across the border as well as guarantee a good collaboration among the regional actors striving towards the same goals. The project caters to companies' need of receiving actual and updated information at the right time, which resultantly create better conditions for cross-border operations.

Project Description

The project is going to develop collaboration between regional players working towards same goal. The service model developed in this project will facilitate companies in getting the relevant and updated information at right time, thereby resulting in feasible conditions for cross-border business operations. During the course of project, all partners (cross-border service centers, companies, public enterprises, and business community and support functions) will get an opportunity to learn about each other's operations and strive towards better collaboration opportunities. The aim is to collectively attend to identified challenges in cross-border business and benefit from the potential growth opportunities existing in the Nordkalott's region. A number of seminars and training sessions will be arranged in order to inspire various groups such as youth, females, and individuals with foreign background etc. towards cross-border business operations.

Beneficiaries: Lapin liitto, Storfjord kommune

Project Duration: 2016-2019

Project Budget: 1 030 852 EUR

Approved EU-fund: 325 000 EUR

Approved IR-fund: 291 677 EUR

Public co-financing: 414 175 EUR

Private co-financing: - EUR

Project: ICNB

Primary goal of the project:

The long term goal is to promote resource-saving smart accommodation and increase the popularity of energy efficient solutions in the construction and maintenance of the building stock during the entire lifecycle. This is achieved by developing solutions based on open standards for SMEs, public sector operators and residents. The project's short-term goal is to develop the skills of the construction industry, SMEs and the public sector operators, so that they can produce high-quality services at a competitive and resource efficient way.

Expected Result:

The project results in:

- SMEs in the construction sector will improve their potential for competitive business.
- Companies' are more prepared to operate in the Nordic countries since the project strengthens the understanding of the differences in building regulations.
- Competence in model-based methods facilitates the cooperation between SMEs and the bodies that govern construction activities, as information exchange about construction projects is done through compatible computer systems.

Project Description

The project develops model-based control solutions for the construction sector's needs, in particular for SMEs, but also for the supervisory authorities. The project highlights how companies can get started to develop the use of BIM and how to deal with differences in building regulations between the Nordic countries in the planning and supervision. The project includes a pilot run of the process of application for building permits based on BIM models and processes. The project will result in concepts and instructions for implementing model-based methods. By using the models the construction sector can plan their own development. In this way, the project supports the operational conditions and the competitiveness of SMEs. It also increases the skill and the ability to offer cross-border services of public sector operators.

Beneficiaries: Oulun amk, Oulun kaupunki, Umeå universitet, LTU, UiT

Project Duration: 2017-2019

Project Budget: 1 293 075 EUR

Approved EU-fund: 598 461 EUR

Approved IR-fund: 197 351 EUR

Public co-financing: 497 263 EUR

Private co-financing: 0 EUR

Project: CYNIC

Primary goal of the project:

The project will promote the development of the digital service industry in the region by providing a cross-border development environment for testing and learning, resulting in business models tailored for digitization and digital services.

Expected Result:

In the short term (Year 1), identify the specific situations and challenges related to business security and risks to SMEs that hinder new business models and new digital services.

In the medium term (year 2), compile and offer demonstrations, testing and training to the target group, regarding the opportunities and risks of different business models.

In the long term (3 years), develop and formalize custom business models with included strategic information security.

A mobile application to visualize risk reviews, standards and policies for SMEs activities will also be presented within the project

Project Description

Uncertainty and risk focus is an obstacle to SMEs to dare to invest in new business models tailored to digitalization and digital services. Better insights and risk awareness of the organization's Cyber behavior can be gained by testing and evaluating new business models in a safe testing environment. The project will help SMF access a physical and virtual experimental and learning environment at LTU and Centria AMK's IT and Information Security lab. These will serve as a test bed for SMF missing today.

Traditional service development follows a process where service problems as well as information risks are usually discovered when the solution is launched at the customer. By having access to a neutral test environment, in this case a cross-border physical and virtual lab environment, companies can learn from each other and learn about common challenges and problems. The initially involved companies consist of information security consultants, business services companies, manufacturing companies and digital service providers, which is a mix of needs owners and suppliers. The project also includes spreading project results and lessons to more companies and organizations.

Beneficiaries: LTU, Centria

Project Duration: 2018-2021

Project Budget: 632 503 EUR

Approved EU-fund: 411 127 EUR

Approved IR-fund: 0 EUR

Public co-financing: 214 376 EUR

Private co-financing: 7 000 EUR

Project: CINEMA

Primary goal of the project:

The project will strengthen the region's business community and increase cross-border trade, exports and internationalization at the region's SMEs, using the new business opportunities that a circular economy offers.

Expected Result:

The project will help the manufacturing processes, services and products developed after the project to be applied in corporate production so that:

- The number of innovative companies working with circular economics is increasing
- Exports and internationalization of the region's SMEs are increasing
- The company's production is streamlined and competitiveness is improved
- The supply of energy and raw materials in production is decreasing

Project Description

In the heavy industry, there is a desire to transition from the "produce, use and discard" concept to a more circular economy where materials and components are re-manufactured using additive methods. A paradigm shift will therefore take place and, if that is possible, specialized SMEs are required to handle the re-manufacturing of the basic industry using new surface treatment technologies. Since it is about new methods, development work, tests, demonstrations and simulation are required to prove that the methods favor both the SME and the basic industry. In many cases, completely new business models need to be developed in order for the transition to circular economy to be possible. SMEs who choose to switch to circular economics must specialize in a certain surface treatment method due to major investments in development and machinery. Through the project, participating companies get improved knowledge of opportunities and methods for repairing and re-manufacturing components in a cost-effective manner.

Beneficiaries: Centria, TTY, LTU

Project Duration: 2018-2021

Project Budget: 936 054 EUR

Approved EU-fund: 608 435 EUR

Approved IR-fund: 0 EUR

Public co-financing: 249 819 EUR

Private co-financing: 77 800 EUR

Project: VAE II

Primary goal of the project:

The aim of VAE II is to increase overnight stays by 10% in certain market areas, focusing on developing year-round tourism in the region. The development of the quiet periods in the travel destinations and companies contributes to increased sales and profitability, which in turn helps to create new year-round workplaces and new investments.

Expected Result:

- 10% increase in overnight stays from selected market areas, development of the year round tourism for participating companies and areas.
- The VAE area is known in selected market areas as a high-class tourist destination all year long.
- Availability and mobility all year round in the VAE area have been developed to serve the tourists who come from outside and those who travel within the region.
- Sustainable tourism development is recognized as a competitive advantage, and companies develop their activities according to the principles of sustainable development.

Project Description

The main objective of the second phase of Visit Arctic Europe is to increase tourism companies' profitability, create new year-round jobs and increase opportunities to start businesses and invest in the Arctic. The project's goal is to strengthen cross-border networking and commercial cooperation so that the Visit Arctic Europe area can be further developed, and the region becomes a high-quality and sustainable tourist destination all year round.

The project's activities are concentrated in three main areas:

- Marketing (image and tactical)
- development of accessibility (internal and external)
- development of the region and companies' competitiveness (digitization, sustainable development, market awareness and product development)

All activities in the project focus on cross-border networking and sustainable development.

Beneficiaries: Finnish Lapland Tourist

Board, Swedish Lapland Visitors Board,

NordNorsk Reiseliv

Project Duration: 2018-2021

Project Budget: 5 362 724 EUR

Approved EU-fund: 2 309 628 EUR

Approved IR-fund: 365 852 EUR

Public co-financing: 1 722 986 EUR

Private co-financing: 964 258 EUR

Project: Giellagáldu

Primary goal of the project

To make Sámi Giellagáldus operations as Sami trade and resource center permanently in the North.

Expected results:

Sami inhabitants and Sami-language speakers have a joint-northern trade and resource center for Sami language.

Project Description:

With project Giellagáldu, the goal is to complete the reorganization of cross-border Sami-language cooperation which originated during 'Sáfá2 project' permanently building Sami fiction and resource center 'Sami Giellagáldu'

The goal of the project is to safeguard the future of Sami-language along with strengthening and promoting the usage of Sami-language in different contexts of language usage.

This job is taken care of by the center's language-minders and language departments for five different Sami-languages: syd-, lule-, nord-, enare- and skoltsamiska. In this project, the Sami trade and resource center is going to work on following activities: language planning, language development, terminologies, service name, places/areas names, informational operations on business-related matters in connection to Sami-language and advice on Sami-language to its users. The project strives towards increased use of terminologies and norms that have been developed during the project via actively spreading information to the Sami-language speakers. The project is also going to investigate ume- and pite version of Sami language. Sami-languages spoken in Russia are also going to be included in this cooperation.

Beneficiaries:

Sámediggi/Saamelaiskäräjät, Finland

Sámediggi-Sametinget Sverige

Sámediggi-Sametinget Norge

Project Duration: 2015-2018

Project Budget: 3 062 053 EUR

Approved EU-fund: 922 439 EUR

Approved IR-fund: 163 415 EUR

Public co-financing: 1 976 199 EUR

Private co-financing: -

Project: Waters discharging into the Gulf of Bothnia

Primary goal of the project

The primary goal is to formulate collective methods that decrease the transport of environmental toxins from the streams to the Baltic Sea.

Expected Result:

- Increased knowledge of our acidic sulphate soils and possible measures that can be taken to reduce the negative effects of these soils on our stream.
- Increased knowledge of whitefish, burbot, salmon, trout and other species population in the region.
- Implementation of measures for habitat enhancement in our stream's watersheds, in order to improve the status of conservation.

Project Description:

The project is going to work with measures that lead to decreased transport of environmental toxins flowing from streams to the Gulf of Bothnia.

Concrete activities and measures are to be carried out in this project:

- Salmon habitat modeling, mapping of different species around the Bay and their habitats, mapping of streams' ecological status, improvement of the ecological status of streams with the help of restoration and recovery methods
- Mapping of acidic sulphate soils and its characteristics in the region around Gulf of Bothnia.
- Construction of demonstration sites and display objects (Demo Paths) where forestry consideration and execution of various restorations and protection of water and wetlands presented.
- Water protection work in peat/peatland production: innovative monitoring methods and actions to improve production of peat/peatland's water protection through continuous monitoring of water quality and attempts on evaporation fields with willow (Salix).
- Mapping of trench areas of forests and measures towards diminishing water protection.
- Measures to improve the ecological status of streams in the catchment areas.
- Measures in watersheds and their environmental conditions, investigation of reproductive problems with whitefish and burbot, as well as understanding of their habitats.

Beneficiaries: Länsstyrelsen i

Norrbottnens län, Lapin ELY-keskus,

GTK, SGU, LUKE

Project Duration: 2015-2018

Project Budget: 2 083 727 EUR

Approved EU-fund: 1 239 640 EUR

Approved IR-fund: -

Public co-financing: 844 097 EUR

Private co-financing: -

Project: Plupp – story about the invisible's in the mountains

Primary goal of the project:

The ambition is to organize 50 school/ public performances.

Expected Result

- Opportunities for leaning about Sami-people, Sami-language and the culture in schools.
- Greater knowledge about Sami-people among their residential area.
- A Sami-kids is naturally and fully integrated at his/her school and living environment.
- Norwegian and Swedish kids find Sami-language as natural part of their environment.
- Easy and nondramatic import of Sami- language and cultural understanding.
- Increased interest among students and teachers on understanding of Sami-cultural.

Project Description:

The story on 'Plupp- the invisible's in the mountains'. The dramatization and stage performance is a selection from Inga Borg's story books from year 1955-2006. The performance is a musical drama depiction built with traditional Sami song of the southern Sami Frode Fjellheim. A state performance, along with its newly composed music in form of traditional Sami song (jojkar), is going to be conducted over the period of one year. The dramatization is going to explain the nature and basic conditions of Sami people by maintaining an easy, informative/educational and entertaining approach.

The performance is supposed to be a pedagogical arena where an artistic experience will depict and convey the message of Sami- language and culture so that the younger public can relate to the content in a natural way. The target age group for this performance is kids between the ages of 6 and 10. The performance is to be built on different phases with repetitions in Mo i Rana and is to be carried out in target areas. Thereafter, the performance is going to be repeated at new areas, Estrad Norr in Östersund och turné in Jämtland followed by the four northern counties. With help of a combined on stage language display of Sami and Scandinavian language, the kids can learn some easier words and expressions in Sami-language.

Beneficiaries: Jämtlands läns

landsting, Åarjelhsaemien Teatere

Project Duration: 2015-2017

Project Budget: 563 853 EUR

Approved EU-fund: 153 735 EUR

Approved IR-fund: 146 341 EUR

Public co-financing: 263 777 EUR

Private co-financing: -

Project: Biogas in Torne River Valley

Primary goal of the project:

To indicate the pre-requisites for a biogas installation with cogeneration production or upgrading to CNG together with establishing a working-group consisting of participants interested in and engaged in a local biogas installation.

Expected Result:

1. The technical and economic analyses on the pre-requisites to start and run a biogas installation with upgradation to CNG.
2. A working group comprised of participants interested in development of a biogas installation in the region.
3. Knowledge development by having: at least two information-related meetings or sittings with the target groups, at least one seminar for general public, along with study trips to at least three biogas installations.

Project Description:

Apart from waste from the municipality operations and households, there is even more waste from the agriculture and fertilizers and other substrates that can be rotted in a collective digester. Annually, about 28 156 ton of substrate is estimated to be available in Övertorneå municipality. Ylitornio municipality, which is almost comparable to Övertorneå in terms of population and agriculture, is also estimated to have similar levels of substrate availability. A preliminary investigation on total possible quantity of methane in these two municipalities is estimated to be 1,2 million Nm³ along with 12,2 GWh energy volume. It will also be interesting to include other municipalities in the vicinity to calculate total amount of substrate, which in result is likely to strengthen the pre-requisites to establish a biogas installation in the Torne river valley.

To benefit from the energy, the most plausible option is to produce cogeneration (heating and electricity) at initial phase. If it is not possible to do so in the initial stage, the installation is later required to be upgraded for production of hydrogen or CNG. Today, the northern most CNG filling-station exists in Boden. The municipalities of Ylitornio and Övertorneå currently have very little understanding of each other's operations; therefore, collaboration happens at a very small extent. A collective biogas installation will therefore increase the cross-border collaboration and both municipalities will get a good understanding of each other's operations, for example, in waste management. This project will increase the opportunities for an affective and sustainable resource utilization in the region. This project will also lead to establishment and strengthening of cross-border contacts in the business industry.

Beneficiaries: Övertorneå kommun

Ylitornion kunta

Project Duration: 2016

Project Budget: 41 000 EUR

Approved EU-fund: 26 650 EUR

Approved IR-fund: -

Publicco-financing: 14 350 EUR

Private co-financing: -

Project: Summer whitefish in Torne River Valley –culture and cultural heritage

Primary goal of the project:

The primary goal is to increase awareness about Tornedalen´s unique hereditary fish culture and to improve its attractiveness among the area´s fishermen, residents, tourists and most importantly, the youth.

Expected Result:

The project is going to result so that:

- Different target groups have improved awareness and knowledge about the importance of Whitefish and its traditional associations with the region, as well as their own identity and connection with the hereditary culture and nature.
- An attractive knowledge-packet about fishing culture and its nature has improved, along with more involving and engaging methods.
- The target groups find strong association with fishing and are inspired to participate in cross-border activities

Project Description:

The traditional trapping methods, trapping arrangements, fishing tools as well as, catching-skills, nourishment of fish, fishing associations and atmosphere are closely tied to inherited knowledge and skills. Today, the aging fishermen, diminishing number of permanent residing places, and changes in the business environment pose threats to fishing activity (both with h v and net).

The digital preservation of the hereditary methods and skills in an interesting way can promote and encourage the transfer of knowledge and skills to younger generation.

Due to traditional fishing activities and beautiful atmosphere, there has been active tourism in the Swedish and Finnish sides of Tornedalen and even in Kakkola. For tourism to live and continue thriving, presence of whitefish in the streams and the fishermen is a pre-requisite. Moreover, whole experience of wishing activity, along with its cultural associations is needed to be packaged in a comprehensive and attractive way. However so far, the exploitation of such traditional fishing culture and attractive fishing place has been done at a mundane level. As per studies, today´s tourists look for ´experiences´ in activities. Therefore, it is crucial that the tourism industry in the region offers a wholesome experience, enriched with cultural heritage and traditions with regards to the fishing activities.

Beneficiaries: Lapin amk, Haparanda stad, Tornion kaupunki

Project Duration: 2015-2018

Project Budget: 850 716 EUR

Approved EU-fund: 552 314 EUR

Approved IR-fund: -

Public co-financing: 223 213 EUR

Private co-financing: 75 189 EUR

Project: Summer whitefish in Torne River Valley - nature

Primary goal of the project

The project's primary goal is to create conditions for a sustainable preservation of fish stocks in the Torne River in order to support the living fishing culture in the region.

Expected Result

The project is going to

- Produce information on spawning and various spawning places of summer whitefish in the Torne River.
- Conduct an estimation analysis on the condition and natural size of baby fish produced in the Torne River.
- Study the area for Whitefish's nutritious intake and spawning zone in Torne River.
- Produce information about summer Whitefish in the Torne River with aim to promote the sustainable practices, in the river and in Gulf of Bothnia.

Beneficiaries: Lapin amk, LUKE,

Länsstyrelsen i Norrbotten,

Tornedalens folkhögskola

Project Duration: 2015-2018

Project Budget: 462 258 EUR

Approved EU-fund: 300 468 EUR

Approved IR-fund: -

Public co-financing: 157 800 EUR

Private co-financing: 3 990 EUR

Project Description:

The stocks of Whitefish in the Torne River vary; in the past 30 years, the spawning of Whitefish has been delayed for about 1 month, while the average size of fish has also decreased considerably. The question is: have there been any biological changes in the environment, if so, which ones and caused by nature or man? This concern is even shared by researchers participating in this project. Currently, there is too little research on spawning, living conditions and environmental factors with regards to Whitefish. Moreover, the gradually disappearing information that exists today is quiet ancestral and is based broadly on fishermen's own observations and experiences.

The modern technology in shape of wireless networks, digitalization and internet is opening new opportunities for the fishermen. It is crucial to learn the preservation of Whitefish stocks and possibilities for sustainable growth principles with the help of collaborative efforts of participating researchers, fishermen and fishing teams. Such collaborative work is essential to study the conditions for preservation of fishing culture. The previous measures taken for promotion of fishing stocks are needed to be reformed for long-term applicability. For example, the current collective cross-river agreements between Finland and Sweden that regulate the fishing in Torne River provides a plausible frame for collaborative work.

Project: Our stories

Primary goal of the project

The project's main goal is to promote regional storytelling and to strengthen the local identity by localizing inspirational narratives across the border

Expected Result

Main result from the project is a collection of cross-border and local narratives in form of "Norrskensvägens berättelsebåge" (Story Arc).

Project Description:

The narratives are going to highlight the distinctive cultural and linguistic traditions among which the Sami-language has a prominent position. Via such narratives, one strives to bring out even other collective linguistic traditions on verge of disappearance, like meänkieli och kvänska.

As storytelling is a widely known method used for effective transfer of important ideas/messages, the aim is to stimulate the narration by selecting inspirational stories from targeted areas/municipalities, that is: Torneå-Haparanda, Kolari-Pajala och Nordreisa. With the help of these narratives, the project aims towards increasing attractiveness of and interest for Nordkalotten, specifically Norrskensvägen as a destination. The project is going to collaborate with tourism and cultural enterprises operating in the region.

Beneficiaries: Lapin amk, Studio E-city Ky, Jord Ek. För., Sverigefinska folkhögskolan

Project Duration: 2016-2019

Project Budget: 1 102 289 EUR

Approved EU-fund: 513 105 EUR

Approved IR-fund: 133 102 EUR

Public co-financing: 400 316 EUR

Private co-financing: 55 766 EUR

Project: AIDA

Primary goal of the project

The overall project objective is to strengthen and bring to life the region's culture and heritage through duodji. The aim is furthermore to strengthen entrepreneurial skills among duodji students on Sami college.

Expected Result

- 1) Raise the value of duodji heritage by increasing awareness of duodji, Sami design, duojár profession and Sami duodji philosophy,
- 2) Create labor and product opportunities for aspiring duojár.
- 3) Increase the knowledge of the Sami language and terminology in duodji.

Project Description:

Ájtte and Sami Archives, in collaboration with Sami craftsmen, artists and designers, who want to make donations to the archives, will create multiple duojár archives. Duojár archive is a new type of separate archives in the institutions and there are no such archives today. The archives are not focused on the handicraft object but on the records that reflect the creative and marketing process and that are not usually taken into the archive.

Beneficiaries:

Kansallisarkisto/Saamelaisarkisto/
Samearkivet, Ájtte, Sámi allavskuvla

Project Duration: 2016-2019

Project Budget: 718 683 EUR

Approved EU-fund: 316 017 EUR

Approved IR-fund: 99 756 EUR

Public co-financing: 300 910 EUR

Private co-financing: 2 000 EUR

Project: Arctic Fox Together

Primary goal of the project

The project aims to create conditions for a more cost efficient conservation of arctic foxes.

Expected Result

- An established and well-developed network of contacts and experience between managers and researchers working with arctic foxes in the Arctic.
- New working methods and knowledge of when, where and to what extent the action should best be done, this is expected to be achieved through both research and experience which is planned within the project.
- A proposal for a regional management plan that includes proposals on cost efficiency and measures leading to environmental benefits by, for example, decreasing transport.
- The public has gained a better knowledge of the arctic fox and its life situation and that the species may be the role model in spreading the message about why it is important to preserve biodiversity.
- Arctic Fox Together can become a pilot project that demonstrates how the three countries can work together in management and research.

Project Description:

The partners want to work large-scale and coordinated together across borders to create better conditions for the arctic fox. Within the project there is a huge support from the participating research institutions with very strong scientific foundation linked specifically to the arctic fox. Arctic Fox Together will develop a proposal for a regional management plan based on government guidelines and create favorable conditions for the management of arctic foxes on the entire Arctic.

Beneficiaries: Länsstyrelsen i

Norrbottnens län, Metsähallitus,

Stockholms universitet, NINA

Project Duration: 2017-2019

Project Budget: 1 279 203 EUR

Approved EU-fund: 582 236 EUR

Approved IR-fund: 140 147 EUR

Public co-financing: 556 820 EUR

Private co-financing: 0 EUR

Project: EEBAK

Primary goal of the project

The overall project objective is to improve the competence of the municipalities in the border region regarding green community development with a focus on energy efficiency of buildings in the arctic.

Expected Result

- Municipal officials and decision-makers are to have access to a comprehensive and systematic evaluation of technologies for energy efficiency in new and existing buildings in the arctic.

Project Description:

By following up a number of low-energy buildings in the three countries, new technologies developed and tested for an arctic climate can be identified, evaluated and compared. The project can develop and evaluate proposals for measures for reducing energy consumption and improved indoor climate in buildings based on best practice in low-energy houses in the Arctic.

Various technical solutions are presented and discussed with the municipalities in the border region and the relevant sectoral authorities, through meetings, workshops and field trips. Knowledge and experiences are documented and analyzed to illustrate the pre-conditions for a broader application. In this way, effective new technologies for energy-efficiency of buildings in the Arctic climate may be implemented more quickly when renovating the old building stock, which contributes to resource efficiency in the region's communities.

Beneficiaries: Lapin amk, LTU, Norut

Project Duration: 2017-2019

Project Budget: 1 453 444 EUR

Approved EU-fund: 595 166 EUR

Approved IR-fund: 243 902 EUR

Public co-financing: 454 925 EUR

Private co-financing: 159 451 EUR

Project: Tana River

Primary goal of the project

The main goal of the the project is to document, protect and maintain the environmental status and biodiversity of the River Tana catchment area.

Expected Result

The project will promote a good ecological state of the river and thus contribute to the objectives of the EU Water Framework Directive.

Project Description:

- To develop web-based tools for fish conservation, by creating a common computer system over the areas of the spawns of migrating fish and the natural environment in and around the Tana River's water area.
- To improve the habitat of the fish by removing obstacles to travel and assess the impact of previous restoration activities through the exchange of information on best practices.
- To develop a joint water quality monitoring program and the Tana River Ecological State, and to publish the monitoring results, including the results of the monitoring of sewage treatment plants' effects on waterways.
- To raise awareness about the diversity of the Tana Valley and improve biodiversity management tools to support local planning and decision-making at local and regional level. A common knowledge platform is a prerequisite for future control of biodiversity.

Beneficiaries: Lapin ELY-keskus,
LUKE, Tana kommune, NVE,
Fylkesmannen i Finnmark, Karasjok
kommune, TF

Project Duration: 2017-2019

Project Budget: 902 059 EUR

Approved EU-fund: 276 320 EUR

Approved IR-fund: 235 000 EUR

Public co-financing: 374 641 EUR

Private co-financing: 16 098 EUR

Project: SEAmBOTH

Primary goal of the project

The project's main goal is to help ensure the conservation of the Bothnian Bay's biological diversity, its habitats and ecosystem and the ecosystem services it provides.

Expected Result

The concrete results will be transboundary maps showing nature values, e.g. of the distribution of species and habitats, guidelines on how to use these maps as well as guidelines on which methods that work in the Bothnian Bay.

The long-term vision is that the management and planning of the Bothnia Bay area should be carried out jointly cross the borders.

Project Description:

The Bothnian Bay has a unique character, but there is a great lack of knowledge about the marine environment. The highest natural values in the region are linked to shallow areas and therefore these will be the focus of the project. Three pilot areas that represent different habitats in the Bothnia Bay will be studied.

The knowledge and planning documentation presented within the project has been sought in the work of a variety of national and international commitments concerning the marine environment, including other EU directives. The knowledge can be used as a basis for area protection and to ensure sustainable use of the sea area in both Swedish and Finnish territorial waters. The results of the project will be presented at workshops for different groups of end users, with the aim of increasing public interest and knowledge about the marine environment.

Beneficiaries: Metsähallitus, Länsstyrelsen i Norrbottens län, SYKE, GTK , SGU, ELY-keskus

Project Duration: 2017-2020

Project Budget: 2 912 718 EUR

Approved EU-fund: 1 893 268 EUR

Approved IR-fund: -

Public co-financing: 1 019 450 EUR

Private co-financing: -

Project: Aktene

Primary goal of the project

The aim of the project is to start a long-term interregional cooperation between the Sami cultural centres in Tärnaby (Sweden) and Hattfjelldal (Norway) focusing on developing the cultural heritage, Sami languages and traditional knowledge in new interactive and innovative ways. The project will learn from the shared traditions and history, with the aim to strengthen the cultural heritage and communities for the future.

Expected Result

- Two strengthened Sami centers with a structural and future plan for cooperation between Hattfjelldal and Tärnaby.
-
- The recapture of the area as a common Sami district despite the barriers of the national border, where the common cultural heritage, including language, creates the conditions for residents as well as both Sami centers to grow with pride.

Project Description:

- Strengthen Sami languages (immersions and courses)
- Transfer traditional knowledge through courses (Collaboration with ABF and Sameslöjd Foundation).
- Develop community between people (meetings, events).
- Develop the Sami Center in Tärnaby
- Develop a model for collaboration between the centers.

Beneficiaries: Storumans kommun,
Sámi Duodji Sameslöjdstiftelsen, Giron
Sámi Teáhter, Abf Mitt i Lappland, Sijti
Jarnge

Project Duration: 2017-2020

Project Budget: 1 123 907 EUR

Approved EU-fund: 325 892 EUR

Approved IR-fund: 335 532 EUR

Public co-financing: 462 483 EUR

Private co-financing: -

Project: HALTI

Primary goal of the project

The project's goal is to organize and plan dynamic, long-term and cross-border cooperation between local communities, authorities and companies with an interest in preserving and developing natural and cultural values in the Halti landscape area. The project will apply for the Europarc Transboundary Park status for the cooperation area.

Expected Result

The project will establish a long-term sustainable annual activity plan and a common visitor management plan for the Halti cooperation area. Protection of sensitive nature as well as follow-up and control of visitors has been improved with the help of new GIS tools and mobile exhibits. The cooperation has improved nature conservation in the area, increased its attractiveness as a travel destination and improved cooperation with the river industry and other land use.

Project Description:

The project includes the Käsivarren eräma nature conservation area in Finland as well as the Reisa National Park and Raisuottarhaldi Landscape Protection Area in Norway.

The area is a significant reindeer husbandry area and, in cultural terms, it is a Sami core area. Cultural wealth is also reinforced by the fact that Finnish, Norwegian and Swedish majority culture and a minority culture of Finnish kvens meet in this area.

The rich nature and culture provide opportunities for different industries, but can also cause contradictions and endanger the sustainable use of the area. The area has traditionally been used for outdoor activities. In recent years, the interest in developing tourism in the area has grown strongly. Storfjord Municipality, Nordreisa Municipality and Visit Lyngenfjorden participate in the project's activities.

Beneficiaries: Metsähallitus, LUKE, Halti nasjonalparksenter, Gáivuotna Káfjord, Nasjonalparkstyret for Reiska nasjonalpark og Raisuottarhaldi landskapsvernområde, UiT

Project Duration: 2018-2020

Project Budget: 960 982 EUR

Approved EU-fund: 271 000 EUR

Approved IR-fund: 195 122 EUR

Public co-financing: 494 860 EUR

Private co-financing: -

Project: Viesso duobbdága

Primary goal of the project

The main objective of the project is to increase understanding of the Lule Sami area as a common, composite landscape in Sweden and Norway, and to convey Sami use and understanding of the landscape as a basis for experiences and natural tourism in northern areas..

Expected Result

The result will be new knowledge of Sami natural history, history and culture generated in cross-border cooperation. The direct result of the project will be mediation and communication linked to the mediation via the digital exhibition Viesso duobbdága / Living landscape and the Sáme duobbdága / Sami landscape.

Project Description:

The project includes three areas:

- Research area luleamic landscape with four thematic areas
 1. Gielas / Cooling - Sami landscapes for 1000 years
 2. The Sami farm
 3. Hiking trail Hellmobotn - Vájsáluokta
 4. Sami city name and landscaping
- Digital Exhibition Viesso Duobbdága / Live Landscape for Mediation on the Swedish / Norwegian Platform Digital Museum and Europeana
- The Sáme duobbdága / Sami landscape application for the development of service design and digital user solutions.

Beneficiaries: Ájtte, LTU, Árran

Project Duration: 2018-2020

Project Budget: 803 703 EUR

Approved EU-fund: 284 602 EUR

Approved IR-fund: 182 927 EUR

Public co-financing: 336 174 EUR

Private co-financing: 0 EUR-

Project: Digital access to the Sámi heritage archives

Primary goal of the project

The main objective of the project is to improve the accessibility of the Sami cultural heritage.

Expected Result

- Access to the Sami cultural heritage has improved. The developed tool enables digital access to Sami culture in various existing archives.
- The project has resulted in knowledge of where Sami material and Sami archives exist throughout Europe. It improves the knowledge of remote and lesser-known historical sources and provides a more comprehensive database for searching the Sami cultural heritage.
- The project has investigated the existing instructions for indigenous archives, and has established common ethical guidelines for the use and utilization of material relating to the Sami culture.

Project Description:

In the project, an information and communication technology application unit is created according to the principle of a single instance of the already existing digital collections of Sami-language culture and heritage. The system links the user to various available collections in a way that facilitates information retrieval and request, supports information retrieval using metadata, and helps the user to access digital material from different locations and databases. The developed whole works as a search registry and search tool, helping you reach the digital content. The metadata of the collected data is retrieved from the metadata of existing collections using multiple computer-supported methods.

Beneficiaries: Lapin yliopisto, Oulun yliopisto, Umeå Universitet,

Kansallisarkisto/Saamelaisarkisto/
Samearkivet, Arkivverket

Project Duration: 2018-2020

Project Budget: 1 380 880 EUR

Approved EU-fund: 761 180 EUR

Approved IR-fund: 104 916 EUR

Public co-financing: 514 784 EUR

Private co-financing: 0 EUR-

Project: Biegganjunázat

Primary goal of the project

The aim is to offer cross-border training on maintenance of reindeer in Sápmi with help of various teaching models.

Expected Result:

- To plan and arrange 8 different training packages or models about the topic, directed towards reindeer development in each land by varying training methods, for example, virtual teaching or instruction.
- To increase the collaboration between reindeer herding schools, teachers and the students; these collaborations will continue even after completion of the project.
- To build an application of the reindeer mark for the reindeer industry. The students participate in building a Sámi application for reindeer husbandry and thereby benefit from the technical expertise.

Project Description

The 8 teaching models are:

- Cutting and processing of reindeer meat
- Reindeer herding and predatory
- Reindeer herding and climate change
- Reindeer herding and other land use and economy.
- Reindeer herding in relation to traditional knowledge and skills
- Reindeer herding Organizations
- Reindeer herding and Technology
- Reindeer herding in the Arctic area

The project provides an opportunity for schools to coordinate their operative models so that the collaborative work can be continued as preliminary working model, even after the project is completed.

Simultaneously, the younger reindeer herders can benefit from the exchange and gain from actual high quality teaching about the herding in the Arctic regions as well as alternative solution to existing challenge with regards to reindeer herding in the Sami regions.

Beneficiaries: Saamelaisalueen

koulutuskeskus, Samernas

utbildningscentrum, Bokenskolan,

Samisk vidaregående skole og

reindriftsskole

Project Duration: 2015-2018

Project Budget: 835 502 EUR

Approved EU-fund: 384 540 EUR

Approved IR-fund: 121 951 EUR

Public co-financing: 329 011 EUR

Private co-financing: -

Project: NORPÅ

Primary goal of the project

The project is going to develop better and easier frameworks for facilitating the movement of qualified labor in the Nordkalotten.

Expected Result:

The project will result in

- A survey of investments and demands of workforce in Nordkalott (or Cape of the North?) based on various professional categories.
- A survey of skill and competence requirements with regards to demand within different professions. This also needs to be followed by a survey on the regulatory work, like validation of professional qualifications across the borders.
- A proposal for improved and harmonized professional education in addition to the study programs available today.

Project Description

A common factor in the northern regions is an access to natural resources, large investments and resultantly, strong industrial growth. However the educational systems and requirements for professional qualifications differ among countries. Consequently, the workforce is unable to freely move across borders even though areas and ways of working are quite similar.

As per a feasibility study conducted by the three northern regions in 2014, the professional education systems in Nordkalott (the Cape of North) differ from each other, thereby causing hindrances for free labor movement. These differences are more obvious between Norway, on one side and Sweden and Finland on the other. The study closely investigated the electronic and automation branches and referred to differences in educational systems as a primary reason for this problem. Furthermore, the requirements for qualification to work differ between countries as well. A Swedish or Finnish electrician, for example, is further required some supplementary courses in order to be able to work in Norway. This is regarded as hindrance which may affect access to qualified workforce in a long-term.

This project will involve public authorities as well as several companies from different branches to analyze the relevant professional categories and understand the existing qualifications system in three countries. Based on in-depth understanding of planned investments and needs analysis with regards to workforce in the northern region, several other professions apart from electronics and automation branch will be studied. Furthermore, the project is also going to bring forward a proposal on the plausible solutions that can facilitate the validation of professional qualifications in Norway, Sweden and Finland. Business Oulu is going to take part as a co-actor in this project.

Beneficiaries: Utbildning Nord,

Narvik VGS

Project Duration: 2015-2016

Project Budget: 356 375 EUR

Approved EU-fund: 112 353 EUR

Approved IR-fund: 82 317 EUR

Public co-financing: 161 705 EUR

Private co-financing: -

Project: Rampen

Primary goal of the project

The primary goal is to find ways of collaboration among relevant organizations in order to decrease the number of, so called “Neets” in the region. The aim is even to get the participating organizations collaborate and exchange “best practices” in order to adapt to their future offerings and widen target area across the borders.

Expected Result:

- HaparandaTornia has strengthened its growth potential and have improved on labor movement across the border.
- Around 300 unemployed youth in HaparandaTornio region has successfully been able to find measures of self-sustenance and capability to live and work in the region in the long term.
- The target group is available for a broader cross-border labor movement via increased knowledge, understanding, motivation and enhanced contact network of potential employers that can become door-openers for new opportunities like employments and/ or internships/studies.
- About 80 unemployed youth is/has become part of workforce/internship/studies.
- The thoughts and concerns of target group in relation to opportunities and barriers for their future labor-movement have been attended and catered to.
- The participating organizations have found ways of collaboration, applied the “best practices” and developed working methods to activate the unemployed youth as part of their continuing/routine operations, along with improved conditions to better be able to adapt to their offerings based on the need on both sides of the border.

Project Description

The project Rampen/Ramppi is going to collectively work with cities unemployed youth and potential employers and/ or study participants. With help of collective workshops, the unemployed are going to learn about new methods and generate required contact networks, knowledge, inspiration and coaching in order to come closer to labor market/ study opportunities present on both sides of the border.

Beneficiaries: Sverigefinska

folkhögskolan, Peräpohjolan

Kansanopiston kannatusyhdistys ry,

Haparanda kommun

Project Duration: 2016-2019

Project Budget: 240 940 EUR

Approved EU-fund: 156 611 EUR

Approved IR-fund: - EUR

Public co-financing: 70 577 EUR

Private co-financing: -13 752 EUR

Project: Arctic Labour

Primary goal of the project

The project's main goal is to increase awareness and interest to work in the North and to increase the actual number of people moving across the border or are considering doing so. The project will also enable higher employability as a support for the Northern labor market.

Expected Result:

The Arctic Labour project contributes to match professionally skilled labour with the needs of industry. In the long term, the project will contribute to the creation of a common labor market region in the northernmost parts of Sweden, Finland and Norway.

Project Description

- Facilitate the recruitment of labour for companies and public organizations
- Develop a model / methodology that supports transnational mobility and takes into account the individual development needs
- Facilitate cooperation and meetings between enterprises, public employers, training providers, employment agencies, employment agencies and job seekers
- Promoting the idea of a common labour and common functions in the north

The project have links and synergies to other ongoing projects, such as a national project in Oulu as well as other cross-border projects within the Nord-programme such as NORPÅ, Nordic Business support, Cross-border advice to companies. Cooperation will also take place with the EURES network that are available in all three countries as well as the region's employment services.

Beneficiaries: Oulun seudun

koulutuskuntayhtymä, Stiftelsen

Utbildning Nord, Bedriftskompetense

Project Duration: 2016-2019

Project Budget: 713 261 EUR

Approved EU-fund: 341 547 EUR

Approved IR-fund: 93 902 EUR

Public co-financing: 197 701 EUR

Private co-financing: -80 111 EUR

Project: Sámi musihkkaakademija

Primary goal of the project

The goal is to strengthen the Sami music as industry.

Expected Result:

A strong cross-border network has been created, consisting of both experts and actors.

- Sámi musihkkaakademijja's operating model has been worked out.
- It has been implemented and established a two-year adult education in Sami music. The education revitalises Sami vocal music genres and improves music skills. The education also includes courses in entrepreneurship that reinforce the students' skills in cultural entrepreneurship, in order for them to have the opportunity to act as supervisors, musicians and self-employed in music after education.
- From the curriculum content, a training package in music has been compiled for students in pedagogy at Sámi allaskuvla.
- Educational materials have been produced to the education's own needs.
- It has been trained 12-16 new supervisors and professional musicians
- An international seminar on traditional Sámi vocal music genres and cultural entrepreneurship has been organized.
- There has been a digital meeting point for Sami musicians.
- The possibilities for permanent education have been investigated including the possibility of completing a double examination.
- It has been investigated how adult education in Sami music can be a high school diploma in Finland and Norway.
- Utsjoki Áilegas Center with its premises and equipment has become a central place for music education.
- It has been possible to start an orchestra with public funding in connection with Sámi musihkkaakademijja.
- Sami music as industry has been strengthened and music education strengthens it further.

Project Description

During the project, Sámi Musihkkaakademijja's activities form a basis for long-term operations. The project develops Sámi musihkkaakademijja's activities. Its operations consist of a network where the players include Sámi oahpahuovddáš, Sámi allaskuvla and Utsjoki municipality. The overall content of the project consists of a two-year adult education in Sami music, the development of teaching in Sami music at preschools and schools, the promotion of cultural entrepreneurship in music, and the expansion and strengthening of the network.

Beneficiaries: Utsjoen kunta,

Saamelais-alueen koulutuskeskus, Sámi allavs-kuvla

Project Duration: 2018-2020

Project Budget: 839 390 EUR

Approved EU-fund: 399 750 EUR

Approved IR-fund: 112 195 EUR

Public co-financing: 327 445 EUR

Private co-financing: - EUR

Project: Bothnan Arc Youth

Primary goal of the project

The main objective of the project is to increase the mobility of young people during the study period, based on learning entrepreneurship, entrepreneurship and cross-border cooperation.

Expected Result:

The project will lead to

- cooperation between Oulu (and vicinity) and Norrbotten has become part of the schools' work and entrepreneurship education
- cross-border activities in entrepreneurship education are seen in joint mobility measures for young people
- The students' motivation and attitudes to the neighboring language and culture are strengthened.

Project Description

The purpose of the project is to develop cross-border cooperation in entrepreneurial education in the Bottenvik arch. The project includes the exchange of NY / UF trade shows between Sweden and Finland as well as the organization of cross-border NY / UF Innovation Challenge events.

In connection with these events, so-called teacher programs and seminars that spread knowledge about NY / UF business and entrepreneurial education to school staff and non-school entrepreneurs. Teacher activities offer experienced NY / UF teachers the opportunity for networking and other useful activities and information about the business community in Bottenviksvågen, such as visits to the region's companies.

The project both supports further development of existing methods and organizes new types of activities and events. The priority target group and participants in the cross-border activities are upper secondary schools in the Bottenvik region. Another group involved in mobility initiatives is teachers and others involved in the implementation and development of entrepreneurial education. Target groups from the entire Bottenvik archipelago can participate in project events..

Beneficiaries: Oulun kaupunki, Ung

Företagsamhet i Norrbotten

Project Duration: 2018-2021

Project Budget: 726 559 EUR

Approved EU-fund: 469 876 EUR

Approved IR-fund: 0 EUR

Public co-financing: 256 683 EUR

Private co-financing: 0 EUR

Project: Academic North

Primary goal of the project

The main objective is, on the one hand, to help academics find work in a socially sustainable manner and, on the other hand, contribute to the need for skilled labor in the ICT sector, which is an acute problem throughout the Nordic region.

Expected Result:

The project results in an increase in academic, multidimensional and socially sustainable mobility and networking in several places in the northern region of Finland, Sweden and Norway.

In addition, it becomes significantly easier for emigrated academic labor to return to the northern region, academic vulnerability is diminishing and employment, welfare and the region's attractiveness increase.

Project Description

The objectives will be achieved through the following methods:

- By building cross-border channels for meetings, collaboration and networking between academics and employers and other stakeholders; for example workshops, networks and seminars. In addition, existing HR services for northern universities and external services will be developed and included in networks.
- By strengthening forums where it is possible to develop socially innovative and sustainable solutions for multidimensional mobility, correcting discriminatory distortions and further developing solutions for practical mobility issues. The project builds networks between actors active in cross-border mobility.
- Developing more long-term networks and meeting places and cross-border mobility as a lasting result.
- By pursuing closer cooperation between the Joint Arctic Agenda for increased employment among academics with the right skills through increased cross-border mobility in the northern region.
- By considering moving movement away from the northern region as a multi-dimensional question with potential. The issue of migration from the northern region may also mean increasing such expertise and experience that may be useful for relocating to the northern region, mobility and networking.

Beneficiaries: Oulun Yliopisto, LTU,

UiT

Project Duration: 2018-2020

Project Budget: 534 440 EUR

Approved EU-fund: 283 314 EUR

Approved IR-fund: 49 286 EUR

Public co-financing: 189 840 EUR

Private co-financing: 12 000 EUR

Priority area	Pre-study	Lead Partner	Other partners	Nord / Sápmi	Budget (EUR)	EU-funding (EUR)	IR-funding (EUR)
1	INSPIRE	Västerbottens läns landsting	Oulun yliopisto, UiT	Nord	33 725	9 880	9 262
1	Offshore Hightech	Turun yliopisto	Forskningsparken i Narvik AS	Nord	32 930	9 836	8 899
2	Arcti© Lean	Kemin Digipolis Oy	IUC Norrbotten AB, Sintef Nord AS	Nord	60 000	10 000	10 000
2	Digitalization as a driving force in Arctic Europé	Norrbottens Handelskammare	Bedriftskompetanse AS	Nord	37 523	9 915	10 000
2	Forprosjekt Arctic Intergenerational Exergaming	Norut	-	Nord	7 318	0	3 659
2	Samisk digital multimedia bedrifts-nettverk	Norut Tromsø	-	Sápmi	19 512	0	9 756
2	Samisk reiseliv i Tanadalen	Sami ealahussearvi-Samis næringsforbund	-	Sápmi	19 512	0	9 756
2	Vårt gemensamma matkulturarv i Sápmi	Slow Food Sápmi	Sijti Jarngge – det samiske kultur- og utviklingssentre i Hattfjellidal	Sápmi	20 000	6 500	4 999
3	Grenseoverskridende kulturminner og kulturmiljø	Árran julevsáme guovdásj	-	Sápmi	20 207	0	10 000
3	Halti transboundary landscape area	Reisa nasjonalparkstyre co / Fylkesmannen i Troms	-	Nord	17 968	0	8 984
3	Händelser kring gränsen	Stiftelsen Gaaltije	Ajtte, Västerbottens museum, Stiftelsen Saemijen Sijte	Sápmi	41 711	9 950	4 683
3	Arctic Cultural Heritage	Nouseva Rannikkoseutury	Leader Polaris 2020	Nord	29 313	19 053	0
4	Akateeminen työttömyys/työllisyys Arktisessa Pohjoisessa.	Oulun Yliopisto	LTU	Nord	16 049	10 000	0
4	Felles Arbeidsmarked	Vinn	-	Nord	8 476	0	4 238
4	Jobbcentrum	Föreningen Norden	Lapin liitto	Nord	16 800	10 000	0
4	Trainee High North	Bedriftskompetanse AS	-	Nord	19 512	0	9 756
4	Integration Nordkalotten	Föreningen Norden	Pohjola-Norden	Nord	30 425	15 925	0

	Financier	Public co-financing EUR	Private co-financing EUR	Number of projects supported
1	3D Step	0	5 000	1
2	ABF Mitt i Lappland, Vilhelmina	27 500	0	1
3	Abisko, STF AB	0	6 480	1
4	Agency9	0	67 667	1
5	AGIO System och Kompetens i Skandinavien AB	0	1 000	1
6	Agnico Eagle Finland Oy	0	5 000	1
7	Aikolon	0	5 000	1
8	Ajtte, svenskt fjäll- och samemuseum	135 629	0	3
9	AkkuSer Oy	0	1 000	1
10	Akvaplan-Niva	0	12 000	1
11	Alavojakkalan jakokunnan yhteisen vesialueen osakaskunta	0	900	1
12	Alfamat Oy	0	15 550	2
13	Alkkulan kalastuskunta	0	1 500	1
14	ALUTEC Oy	0	1 000	1
15	Annen Privat	0	73 171	1
16	Arctic Bath AB	0	2 310	1
17	Arctic Connection Travel Group	0	6 480	1
18	Arctic Inbound AB	0	2 310	1
19	Arctic Light Hotel Oy	0	5 000	1
20	Arctic Link AB	0	10 800	1
21	Arctic Safaris / Fjällguiden i Kiruna AB	0	6 480	1
22	Arjeplog hotel Silverhatten AB	0	18 360	2
23	Arjeplogs kommun	5 291	0	1
24	Arkivverket	104 917	0	1
25	Arktikum-palvelu Oy	0	7 250	2
26	Armassaaren kalastuskunta	0	900	1
27	Ärran - lulesamisk senter	80 122	0	1
28	Art Hotel Tornedalen	0	2 310	1
29	Arvidsjaur flygplats AB	10 800	0	1
30	Aurora Lapland Travel Oy	0	2 250	1
31	Bedriftskompetanse AS	0	91 786	3
32	Bedriftsnettverk/Arena	0	73 171	1
33	Beivvas Sami Teahter	29 268	0	1
34	Bioforsk Holt	0	60 976	1
35	Black Lion Pictures Oy	0	3 000	1
36	BnearIT AB	0	1 000	1
37	Brokk	0	4 000	1
38	Brändö konferens & fritidsby	0	9 780	2
39	Brødrene Karlsen AS	0	600	1
40	Camp Ripan AB	0	13 080	2
41	CAPE Lapland Oy	0	4 000	2
42	Casselgren Innovation AB	0	14 527	1
43	Castolin Scandinavia AB	0	5 500	1
44	Centria-ammattikorkeakoulu Oy	244 063	0	7
45	City Hotel Oy	0	5 000	1

	Financier	Public co-financing EUR	Private co-financing EUR	Number of projects supported
46	Clarion Hotel Sense / PHG AB	0	18 360	2
47	Cluster companies (detailed later)	0	6 200	1
48	Collaprimo OY	0	2 500	1
49	Conex	0	4 000	1
50	DDig AB	0	1 050	1
51	Deltagande företag	0	269 853	3
52	Destia Oy	0	4 500	1
53	Destination Inlandsbanan AB	0	8 790	2
54	Dundret Sweden AB	0	2 529	1
55	Duroc AB	0	5 500	1
56	Duroc Laser Coating	0	5 500	1
57	Eija Nivala Design Oy	0	1 500	1
58	Elinkeino-, liikenne- ja ympäristökeskus	154 072	0	4
59	Elite hotel / Bishops Arms Scandinavia AB	0	11 430	2
60	Elpex Sweden AB	0	1 000	1
61	EräHotelli Nellim Oy	0	4 750	1
62	Eskelisen Lapin Linjat Oy	0	2 500	1
63	Europcar	0	1 750	1
64	Explore the North AB	0	3 300	1
65	FilmCamp AS	0	186 244	1
66	Fineweld Oy	0	1 000	1
67	Finnish Lapland Tourist Board / LME	0	12 858	1
68	Finnmarks fylkeskommune	424 036	0	5
69	Finsk-Svenska Gränsälvscommissionen	3 000	0	1
70	Fjällguiden AB	0	2 310	1
71	Foreca Oy	0	52 937	1
72	Forest Hotel	0	1 208	1
73	Forskningsparken AS	8 899	0	1
74	Forskningsparken i Narvik	0	20 667	1
75	Frebelt AB	0	1 000	1
76	Future Eco	0	20 628	1
77	Fylkesmannen i Finnmark	48 780	0	1
78	Föreningen Norden Norrbotten	3 800	0	2
79	Företag	0	408 171	2
80	Geologiska forskningscentralen (GTK)	150 949	0	3
81	Gestamp Hardtech AB	0	11 000	2
82	Giron Sámi Teáhter	31 600	0	1
83	Global Boiler Works Oy	0	1 000	1
84	Group Builder	0	1 500	1
85	Guolbba Oy / Lomakylä Valle	0	1 750	1
86	Gällivare kommun	16 438	0	2
87	Haggbloom Oy	0	1 000	1
88	Haparanda kommun	57 241	0	2
89	Haparanda Stadshotell AB	0	3 300	1
90	Harrinivan Lomakeskus Oy	0	14 500	1

	Financier	Public co-financing EUR	Private co-financing EUR	Number of projects supported
91	Hartela-Forum Oy	0	1 000	1
92	Havs- och vattenmyndigheten	307 829	0	1
93	Heart of Lapland	0	3 790	1
94	Herman Andersson Oy	0	1 000	1
95	Hiihtokeskus Iso-Ylläs Oy	0	9 500	1
96	Himmerkinlahti Oy (Lomakeskus Himmerki)	0	4 000	2
97	Honkamajat Oy	0	1 000	1
98	Hopeaseppä Jorma Smeds	0	500	1
99	Hotell Storforsen AB	0	6 480	1
100	Hotelli Inarin Kultahovi Oy	0	2 500	1
101	Hotelli Ivalo Oy	0	5 000	1
102	Hotelli Korpikartano	0	2 500	1
103	Hovilompolo	0	300	1
104	Hulkoffgården AB	0	750	1
105	Hullu Poro Oy	0	34 250	2
106	Hushållningssällskapet Norrbotten-Västerbotten	0	4 500	2
107	Högskolan i Narvik	70 860	0	1
108	Icehotel AB	0	26 280	2
109	Ihana! AS	0	25 244	1
110	Iin Micropolis Oy	15 588	0	1
111	Ilmatieteen laitos	16 676	0	1
112	IMSS Oy	0	2 000	1
113	Inari-Saariselkä Matkailu Oy	0	4 750	2
114	Industrigruppen Bottnia	0	5 300	1
115	Infranord AB	0	5 500	1
116	Innovasjon Norge	692 464	0	4
117	International Sámi Film Institute	15 800	0	1
118	Interrent Oy/ Europcar	0	2 250	1
119	IUC Norrbotten	0	23 003	2
120	J.M. Eskelisen Lapin Linjat Oy	0	9 500	1
121	Jake Rakennus Bygg Oy	0	500	1
122	JKS Products Ltd	0	1 000	1
123	Jord Ekonomisk förening	0	9 727	1
124	JS Oy Pietarsaari	0	9 300	1
125	Kainuunkylän osakaskunta	0	1 500	1
126	Kaivosyhtiö Arctic Ametisti Oy	0	4 750	2
127	Kalaliike Haavi	0	600	1
128	Kansallisarkisto/Saamelaisarkisto Samearkivet	66 539	0	2
129	Kajaanin Kaupungin koulutusliikelaitos/Kainuun ammattiopisto	61 608	0	1
130	Karasjoga gielda/Karasjok kommune	15 244	0	1
131	Karungi fiskeförening	0	600	1
132	Karungi hembygdsförening	0	150	1
133	Karungi Skifteslags samfällighetsförening	0	1 500	1
134	Karungin osakaskunta	0	7 500	1
135	Kaulirannan osakaskunta	0	700	1

	Financier	Public co-financing EUR	Private co-financing EUR	Number of projects supported
136	Kemin Digipolis Oy	8 500	0	2
137	Kemin Matkailu Oy	0	18 500	2
138	Keskipiste-Leader ry	577	0	1
139	Keski-Pohjanmaan koulutusyhtymä	40 521	0	1
140	Kieringin Lomakylä Oy	0	1 750	1
141	Kiruna Lappland ekonomisk förening	0	19 300	2
142	Kiruna Wagon	0	4 000	1
143	Kittilän kunta	9 000	0	1
144	Kjeøy Research and Education Center	0	145 526	1
145	Koillismaan Leader ry	577	0	1
146	Koillis-Suomen kehittämissyhtiö Naturpolis Oy	95 350	0	1
147	Koivukylä-Päkkilä-Vitsaniemi fiskeförening	0	300	1
148	Kokkola LCC Oy	0	20 200	2
149	Kokkolanseudun Kehitys Oy (KOSEK)	145 202	0	3
150	Korpikylä hembygd sförening	0	300	1
151	Korpikylän osakaskunta	0	6 000	1
152	Koy Koutalaki / Hotel Levi Panorama	0	9 500	1
153	Koy Koutalaki 1	0	2 500	1
154	Kuivakankaan osakaskunta	0	750	1
155	Kukkola kalastuskunta/fiskeförening	0	3 990	1
156	Kukkola samfällighetsförening	0	6 000	1
157	Kukkolaforsen Fastighet	0	3 000	1
158	Kukkolaforsen Turist	0	6 000	1
159	Kukkolaforsen Turist & Konferens	0	9 780	2
160	Kukkolan kyläyhdistys	0	300	1
161	Kukkolan osakaskunta	0	11 010	1
162	Kukkolankosken Myllynpirtti	0	1 000	1
163	Kukkolankosken siikalastusyhtymä	0	2 400	1
164	Kukkolankoski Catering	0	300	1
165	Kuljetusliike Kinnunen Oy	0	500	1
166	KUST Hotell & Spa i Piteå	0	9 780	2
167	Kylmämaan Ohjelmat Oy	0	4 000	2
168	Kåfjord kommune	51 594	0	1
169	Lapin ammattikorkeakoulu Oy	326 479	0	9
170	Lapin Luontolomat Oy	0	1 750	1
171	Lapin yliopisto	115 500	0	3
172	Lapland Hotels Oy	0	39 250	2
173	Lapland Ice & Light AB	0	2 310	1
174	Lapland Resorts AB	0	26 280	2
175	Lapland Safaris Group Oy	0	39 250	2
176	Lapland Welcome Oy	0	2 250	1
177	Lappesuando Turistservice AB	0	6 480	1
178	Lapplands förbund	5 325 711	0	48
179	Lapplands kommunalförbund	16 416	0	2
180	Lasercom AB	0	1 050	1

	Financier	Public co-financing EUR	Private co-financing EUR	Number of projects supported
181	Lestijärven kunta	8 915	0	1
182	Levin matkailu Oy	0	19 250	1
183	Levin Matkailu Oy	0	9 000	1
184	Levin Matkailukeskus Oy / Hotelli Levitunturi Oy	0	19 250	1
185	Levin Matkailukeskus OY / Levi Hotel Spa	0	15 000	1
186	LKAB	0	6 000	1
187	LUKE Luonnonvarakeskus (Naturresursinstitutet)	121 932	0	4
188	Luleå kommun	29 261	0	3
189	Luleå tekniska universitet	1 245 791	0	25
190	Lunds universitet	47 664	0	1
191	Länsstyrelsen i Norrbottens län	799 741	0	12
192	Matkakoski fiskeförening	0	3 000	1
193	Matkalle Sallaan ry	0	4 000	2
194	Meri-Lapin matkailu Oy	0	4 000	2
195	Metasphere Technology AB	0	10 900	1
196	Metsähallitus	163 472	0	4
197	Meän kukkolankoski ry	0	500	1
198	Midnight Composites AB	0	1 921	1
199	Miilux	0	20 000	1
200	Mirror Partner Utveckling AB	0	1 000	1
201	Moose & Goose AB	0	2 310	1
202	Myvon Oy	0	1 750	1
203	Narvik Composite	0	600	1
204	Narvik kommune	60 976	0	1
205	Nasjonalparkstyret for Reisa nasjonalpark og Raisdouttarhaldi lan	51 592	0	1
206	Nedre Vojakkala Skifteslags samfällighetsförening	0	1 000	1
207	Nellim Wilderness Hotels & Safaris	0	9 000	1
208	Niekhu Adventure AB	0	2 310	1
209	Nivala-Haapajärven seutukunnan kehittämissyhtiö Nihak Oy	11 250	0	1
210	Nivalan Teollisuuskylä Oy	11 250	0	1
211	Nord Troms Museum	3 000	0	1
212	Nordiska ministerrådet	426 365	0	2
213	Nordkalotträdet (NKR)	11 940	0	3
214	Nordkalotträdet (NKR)	56 000	0	6
215	Nordland fylkeskommune	753 495	0	15
216	NordNorsk Reiseliv as	0	377 917	1
217	Nordnorsk vitensenter	80 738	0	1
218	Nord-Trøndelag fylkeskommune	4 683	0	1
219	Norges forskningsråd	61 908	0	1
220	Norges Vassdrags- Og Energidirektorat (Nve)	26 829	0	1
221	Norra-Österbottens förbund	70 000	0	1
222	Norrbottens Handelskammare Service AB	0	7 608	1
223	Norsk institutt for bioekonomi	60 000	0	1
224	Norsk institutt for naturforskning	140 184	0	1
225	Northern Norway Tourist Board	0	272 029	1

	Financier	Public co-financing EUR	Private co-financing EUR	Number of projects supported
226	Norut	0	83 845	1
227	Norut Narvik	23 225	0	1
228	Norut Tromsö	313 110	0	3
229	Nouseva Rannikkoseutu ry	684	0	1
230	Nuorgamin Lomakeskus Ky	0	1 750	1
231	Nuotiorannan kalastuskunta	0	1 200	1
232	Nutti Sámi Siida	0	6 480	1
233	Närckin Tengeliö Portimojärvi osakaskunta	0	600	1
234	OnlineMarina	0	1 000	1
235	Optomed	0	5 000	1
236	Oulu Business Networks Oy	0	500	1
237	Oulun ammattikorkeakoulu	88 287	0	2
238	Oulun kaupunki	372 413	0	5
239	Oulun Kojeistotarvike Oy	0	500	1
240	Oulun Konttivuokraus Oy	0	1 300	1
241	Oulun Matkailu Oy	0	30 000	1
242	Oulun seudun koulutuskuntayhtymä (OSEKK)	43 179	0	1
243	Oulun Yliopisto	660 461	0	16
244	Outokumpu	0	15 000	1
245	Oy Häggblom Ab	0	10 900	1
246	Oy Kinos Safaris ltd	0	2 500	1
247	Oy Sea Lapland Hotels & Restaurants, Hotelli Merihovi	0	2 500	1
248	Pajala kommun	10 800	0	1
249	Peräpohjolan Kansanopiston Kannatusyhdistys	0	4 536	1
250	Pirkkiön osakaskunta/ vesialue	0	639	1
251	Piteå Energi AB	0	2 573	1
252	Piteå Havsbad AB	0	19 800	1
253	Piteå kommun	1 000	0	1
254	Pohjois- Suomen Tekniikkapalvelut Oy	0	1 000	1
255	Pohjois-Suomen audiovisuaaliset ammattilaiset	0	20 412	1
256	Pohjolan Safarit - Nordic Safaris	0	3 150	2
257	Pohjola-Norden	0	500	1
258	Polar Star Travel / Aurora Incoming Levi oy	0	2 500	1
259	Polarfönster	0	1 050	1
260	Posion Matkailuyhdistys	0	1 750	1
261	Premec Oy	0	1 000	1
262	Projant/ Katsastus Team Oy	0	1 300	1
263	Prosiika ry	0	2 400	1
264	Pure Lapland AB	0	2 310	1
265	Pyhä-Luosto Matkailuyhdistys ry	0	4 000	2
266	R- Automatic	0	1 050	1
267	Randax	0	5 000	1
268	Rec Alkaline Oy	0	1 000	1
269	Region Jämtland Härjedalen	102 192	0	1
270	Region Norrbotten	2 589 083	0	34

	Financier	Public co-financing EUR	Private co-financing EUR	Number of projects supported
271	Regionförbundet Västerbottens län	121 717	0	2
272	Relitor Engineering AB	0	1 050	1
273	Rieska-Leader ry	577	0	1
274	RISE Research Institutes of Sweden AB	22 642	0	1
275	Roadscanners Oy	0	2 900	1
276	Robit Plc	0	9 300	1
277	Robot Center Norr AB	0	3 150	1
278	Rolls-Royce Oy Ab	0	10 900	1
279	Rovaniemen Matkailu ja Markkinointi Oy	0	2 250	1
280	Ruka-Kuusamo Matkailu ry	0	34 500	1
281	Saalasti Oy	0	9 300	1
282	Saamelaisalueen koulutuskeskus	40 480	0	2
283	Saamelaiskäräjät	270 821	0	1
284	Saferescue Sweden AB	0	1 000	1
285	Salla Ski Resort / Kaunisharju Oy	0	2 250	1
286	Saltoluokta, STF AB	0	6 480	1
287	Samediggi/Sametinget Norge	1 053 463	0	4
288	Samelands resor AB/Fjällguiden AB	0	2 100	1
289	Samernas utbildningscentrum	20 124	0	1
290	Samerådet, norska sektionen	9 146	0	1
291	Sameslöjdsstiftelsen	15 800	0	1
292	Sametinget	450 989	0	2
293	Sámi Museum Siida	1 750	0	1
294	Sámi University College	144 390	0	2
295	Samisk vidaregående skole og reindriftsskole	121 951	0	1
296	Sápmi Nature AB	0	8 790	2
297	SARB Consulting Norge AS	0	6 098	1
298	Scandic	0	7 500	1
299	Senja AS	0	600	1
300	Sicomp swedish inst of composites	28 529	0	1
301	Siida-Saamelaismuseum ja luontokeskus	2 250	0	1
302	Sijti Jarng - det samiske kultur- og utviklingsentre i Hattfjelldal	140 988	0	1
303	Sintef Nord AS	8 500	0	1
304	SJ Norrlandståg AB	10 800	0	1
305	Skellefteå City Airport AB	20 700	0	2
306	Skellefteå kommun	151 925	0	2
307	Smilee/Kommeet Oy	0	1 200	1
308	Somotec Oy	0	4 650	1
309	Sport Resort Ylläs / Hiihtokeskus Iso-Ylläs Oy	0	5 000	1
310	SSAB	0	20 000	1
311	Statens kulturråd	53 915	0	1
312	Stella Polaris AS	0	600	1
313	STF Abisko	0	11 880	1
314	Stiftelsen Gaaltije	0	650	1
315	Stiftelsen Saemien sijte	5 389	0	1

	Financier	Public co-financing EUR	Private co-financing EUR	Number of projects supported
316	Stiftelsen Teknikens Hus	37 500	0	1
317	Stiftelsen Tornedalens folkhögskola	20 065	0	1
318	Stiftelsen Utbildning Nordkalotten	61 095	0	1
319	Stockholms universitet	228 564	0	1
320	Stoorstålka AB	0	2 100	1
321	Stora Sjöfallet Fjäll AB	0	6 480	1
322	Storfjord kommune	70 002	0	1
323	Storumans kommun	125 523	0	1
324	Studio E-city	0	20 795	1
325	Suomalais-Ruotsalainen kulttuurirahasto	0	2 000	1
326	Suomen keskusvaraamo Oy	0	1 000	1
327	Suomen ympäristökeskus	22 929	0	1
328	Svanstein Resort AB	0	2 310	1
329	Swedavia AB	31 500	0	2
330	Swedish Lapland Visitors Board	18 156	0	1
331	Svenska Tågkompaniet AB	0	10 800	1
332	Swerea Mefos AB	85 079	0	2
333	SverigeFinska Folkhögskolan	36 579	0	2
334	Sveriges geologiska undersökning	215 184	0	2
335	Sähkövaltti Oy	0	1 000	1
336	Säiö Ykköset Oy	0	1 000	1
337	Särkijärven Majat Oy	0	1 750	1
338	Sörbyn Turism och Konferens	0	6 480	1
339	Sör-Trøndelag fylkeskommune	4 683	0	1
340	Tana Kommune	63 963	0	1
341	Tanavassdragets fiskeforvaltning (TF)	0	16 098	1
342	Teca Oy	0	500	1
343	Termater Oy	0	500	1
344	The Northern company AS	0	4 878	1
345	Thermotic AB	0	1 050	1
346	Tornedalens Renprodukter	0	1 050	1
347	Tornedalsrådet	7 800	0	2
348	Torneå kommun	3 000	0	1
349	Tornio-Muoniojokiseura	0	300	1
350	Tornionjoen kalastusalue	0	900	1
351	Tosibox Oy	0	1 000	1
352	TravelCo in Swedish Lapland AB	0	2 310	1
353	Treeform	0	4 716	1
354	Treehotel AB	0	9 780	2
355	Troms fylkeskommune	2 180 492	0	24
356	Tromsö kommune	53 602	0	1
357	Träbyggarna i Kalix	0	2 100	1
358	Turnhill AB	0	4 000	1
359	Turun yliopisto	2 296	0	1
360	Tyréns AB	0	1 050	1

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361	UiT Norges arktiske universitet	660 272	0	9
362	Uki Arkkitehdit Oy	0	2 500	1
363	Umeå universitet	133 897	0	3
364	Utbildning Nord	0	33 160	1
365	Utsjoki kommun	82 250	0	1
366	Vida Nord DMC	0	6 480	1
367	Wild Nordic Finland / Villi Pohjola Oy	0	5 000	1
368	Villi Pohjola Oy	0	2 250	1
369	Visamix Oy	0	2 250	1
370	Visit Abisko	0	2 310	1
371	Visit Inari Oy	0	4 750	2
372	Visit Luleå AB	0	19 300	2
373	Visit Rovaniemi	0	2 500	1
374	Visit Sweden	321 000	0	1
375	Visit Ylläs	0	1 750	1
376	Vison Oy	0	1 000	1
377	Vitsaniemi Skifteslags samfällighetsförening	0	200	1
378	Volter Oy	0	1 500	1
379	Vuokatin Katinkulma Oy	0	3 000	1
380	Wyilda af Norden	0	500	1
381	Wärtsilä Finland Oy	0	20 200	2
382	Västerbottens läns landsting	3 465	0	1
383	Västerbottens museum	2 324	0	1
384	YIT Oy	0	4 500	1
385	Ylitornion kunta	4 500	0	2
386	Ylitornion museo- ja kotiseutuyhdistys	0	300	1
387	Ylivieskan Seutukuntayhdistys Ry	12 500	0	1
388	Ylläksen Markkinointi Oy	0	2 250	1
389	Yrityspalvelu Hollström Oy	0	1 000	1
390	Åarjelhsamien Teatere	92 684	0	1
391	Älvsbyns kommun	2 506	0	1
392	Övertorneå kommun	4 500	0	2