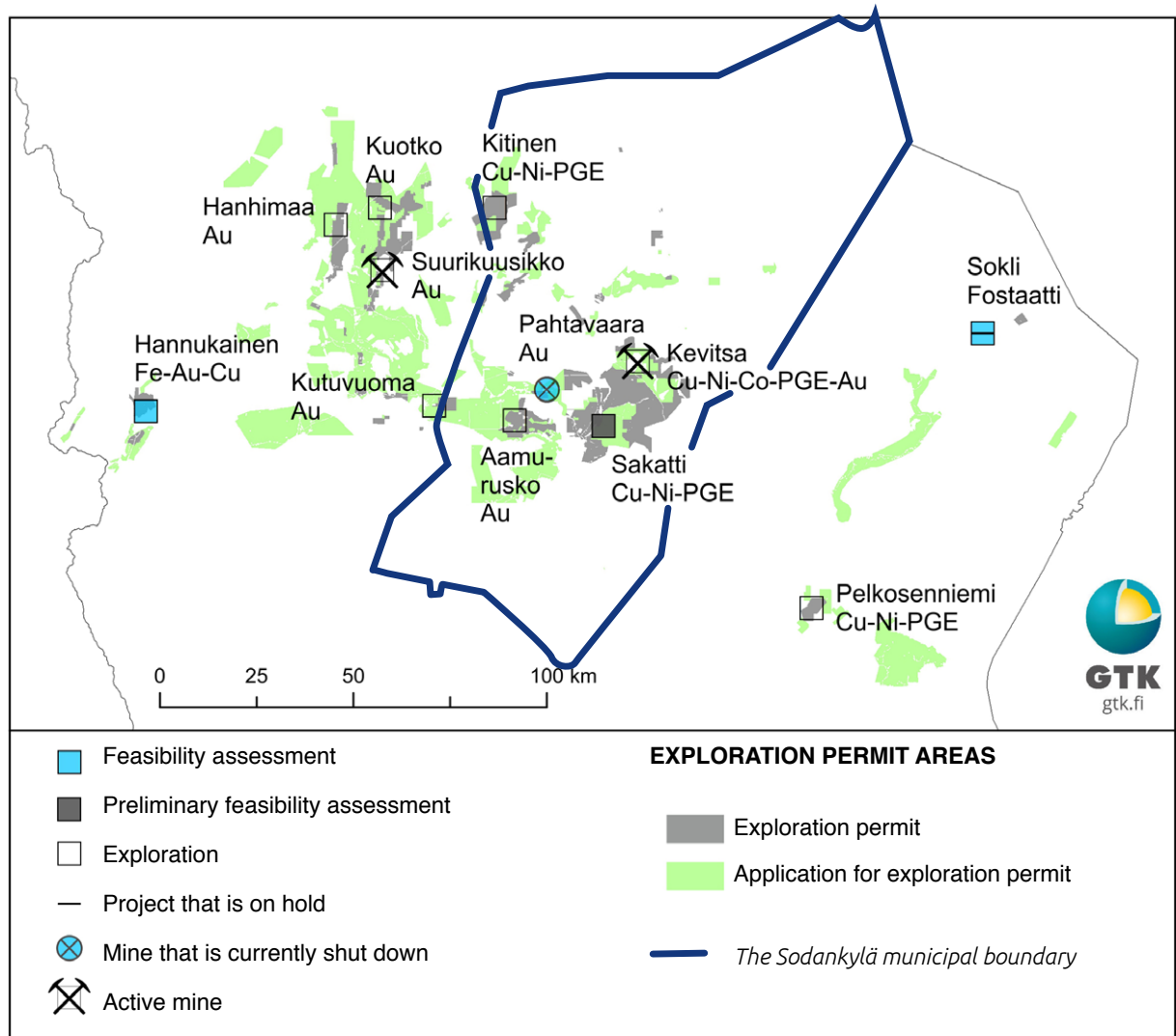




Principles for economically,
socially and ecologically
sustainable mining

Sodankylä Municipality's Mining Programme 2018–2021

CURRENT EXPLORATION AND MINING PROJECTS IN AUTUMN 2017 IN THE LAPLAND REGION.



Information sources: Communication by companies and contact with companies, TUKES. Map drawn by GTK.

MINING INDUSTRY IN SODANKYLÄ, FINLAND

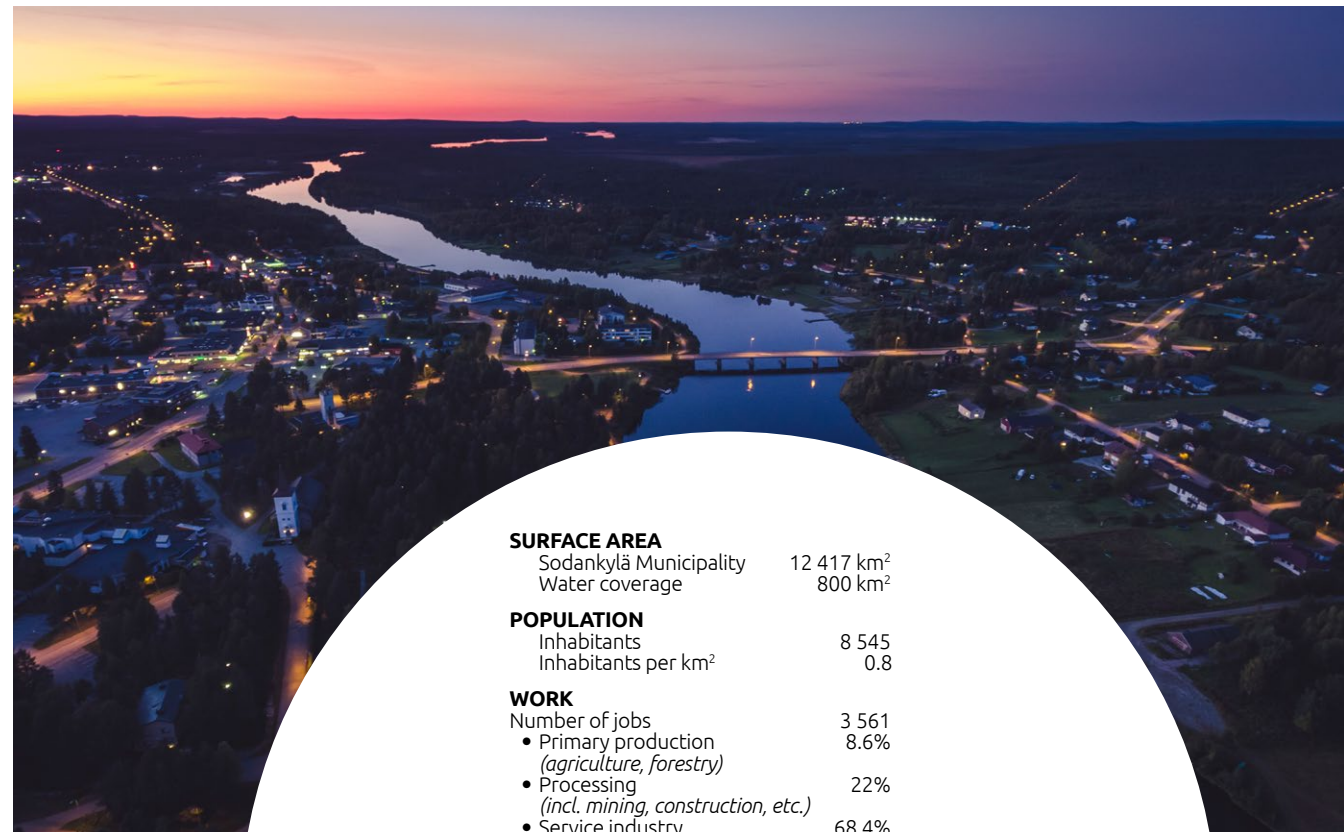
Sodankylä is a municipality located in North Finland, Lapland. Sodankylä has a significant potential for resource-based industries such as mining. The mining industry is the most significant private sector employer in Sodankylä. Finland's biggest metal mine, Boliden Kevitsa, is located in Sodankylä and there are several ongoing exploration projects in various stages of development.

The mining industry is currently the most significant private sector employer in the number of jobs in Sodankylä. The mining cluster in the region includes service providers and subcontractors related to mining, maintenance and exploration as well as geophysical research, education and laboratory services.

Boliden Kevitsa was opened in 2012 and currently offers direct jobs for more than 400 people and if the subcontractors are counted, more than 700 jobs. In Sodankylä, there is also the Pahtavaara Gold Mine that has been opened and closed several times since 2000 and is currently on standby.

Currently the most significant exploration project is the AA Sakatti Mining Project that has a nickel-copper deposit project it is in environmental impact assessment phase. The Sakatti Project is located in a nature protection area and Natura 2000 area. The Sakatti project has 29 employees and during the planning and exploration season, there are approximately 150 new recruitments when subcontractors are included.

There are numerous ongoing exploration activities in Sodankylä. During winter season 2016–2017 there were more than dozen international companies practicing exploration. In Sodankylä there is also a long history of artificial gold mining.



SURFACE AREA	
Sodankylä Municipality	12 417 km ²
Water coverage	800 km ²
POPULATION	
Inhabitants	8 545
Inhabitants per km ²	0.8
WORK	
Number of jobs	3 561
• Primary production (agriculture, forestry)	8.6%
• Processing (incl. mining, construction, etc.)	22%
• Service industry (incl. municipality & military)	68.4%
Employment rate	~ 67.1% (Lapland 63.4%)

MUNICIPAL VALUES AND GOALS

The aim of the mining programme is to express the municipality's goals and principles related to mining, and support the community to achieve these goals. The mining programme and its principals are the foundations for the municipality's planning and decision making related to mining and cooperation with the mining industry.

The main principal is that Sodankylä Municipality encourages and promotes cooperation with mining projects if and when in advance demonstrated by impact assessments and relevant research findings that the project benefits the local community and that the risks can be accepted in short and long term by the local community.

THE SODANKYLÄ MUNICIPALITY'S VALUES

SOCIAL SUSTAINABILITY means e.g. that mining projects should have a positive impact on the welfare of local people, neighbouring communities nearby benefit and negative impacts are minimized and compensated

ECOLOGICAL SUSTAINABILITY means e.g. that fresh waters are kept clean, recreational areas attractive and and biodiversity is unharmed

ECONOMICAL SUSTAINABILITY means e.g. there should be positive impacts for local livelihoods and business



LAND USE, AREA-SPECIFIC ISSUES AND AND ROLE OF THE MUNICIPALITY

In Finland, the municipality has a strategic role with exclusive rights for on land use planning in the municipality's area. In addition the regional level land use plans that are monitored on the planning process at the local level. Sodankylä is located in Lapland, the northern part of Finland and there are several area-specific issues to take into account when planning an industrial project.

THE MUNICIPALITY IS AN IMPORTANT LOCAL AUTHORITY

In Finland, the municipality is an important authority when planning any activities related to land use. In Sodankylä Municipality the technical department is in response of planning the land use.

REINDEER HUSBANDRY AREA

During the preparation of the mining programme it was considered based on discussions, workshops and research results that the reindeer herders are concerned about their livelihoods' future if the mining industry will expand significantly from what it is today.

There are possible conflicts of interests and there is a need for good communication in planning and exploration phases with the reindeer herders. For Sodankylä Municipality it is important that the possibilities for reindeer herding are safeguarded widely.

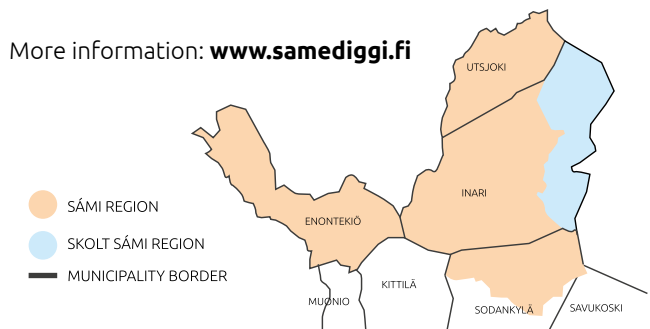
Also the Municipality emphasizes that the impacts of mining must be well studied, negative impacts minimized and compensated. In case there is direct or indirect construction related to mining, it should be planned and implemented so that it reduces the herding area as little as possible. The reindeer herding areas in Sodankylä are mainly "special reindeer herding" area, and Section 2 of the Reindeer Husbandry Act states: "The land in this area may not be used in a manner that may significantly hinder reindeer herding".

More information: www.paliskunnat.fi

SÁMI AREA

Part of northern Sodankylä, including Vuotso village, belongs to the homeland of the indigenous Sámi, as intended by the Act on the Sámi Parliament (Act on the Sámi Parliament, Section 4). The Sámi Parliament was invited to participate in the stakeholder process for this paper. In their written response, they stated: "The Sámi Parliament does not accept mining projects within the Sámi homeland area. The Sámi Parliament did not nominate a representative for the stakeholder process of this policy. Sodankylä Municipality's principle is to evaluate the mining projects individually from the perspective of sustainability and acceptability, and the Municipality takes into account what laws says about the Sámi homeland.

More information: www.samediggi.fi



TUKES, ELY and AVI are the key AUTHORITIES RELATED TO MINING. www.tukes.fi, www.ely.fi, www.avi.fi

“ The municipality has exclusive right on land use planning in Finland ”

“ Fresh waters
should be
kept clean ”



FISHERIES AND FRESH WATERS

The stakeholders were concerned about the impacts of mining on the fresh waters and the risks related to recreational fishing as well as in some cases, for fishery as a livelihood. Finnish Law requires to use the best available technology and the best solutions for the waters.

Sodankylä Municipality's goal is that the local people's expectations and knowledge is taken into account when planning mining projects.

TOURISM

Tourism provides around 200 jobs in Sodankylä. The main tourism resorts and centres such as Luosto Ski Resort and National Park, Kakslauttanen Saariselkä, are located more than 30 kilometers away from the current mine sites. During the workshops, it was identified that currently there is no conflict of interests between tourism and mining, but more possibilities and synergies to discover.

At the same time, views were expressed that a conflict of interest could arise if the future holds plans for mines close to nature tourism resorts.

www.visitsodankyla.fi

RECREATIONAL USE OF NATURE

Local people want to get more proactive information about the environmental impacts of mining, written in an easily comprehensible format. Also based on the workshops and research with stakeholders, hunting and berry picking activities are important for local people and these should be considered when planning mining and exploration activities.

SODANKYLÄ MUNICIPALITY'S MINING PROGRAMME

SOCIAL IMPACT MANAGEMENT AND EVALUATION PLAN 2020, 2023, 2026, 2029

SECTION	GOAL, OBJECTIVE	ACTION PLAN	INDICATOR
SOCIAL SUSTAINABILITY	<ul style="list-style-type: none"> Welfare of people living in the community increases Villages close to mining projects can benefit out of the mining projects The negative impacts and losses are minimized and compensated Local culture has good ability to act and develop Traffic safety increased New residents settling into the community 	<ul style="list-style-type: none"> Development of different livelihoods so that there are job and education opportunities for whole families Road and pedestrian way investment and improvement projects Social impacts are evaluated and followed up and problems solved: local mining forum established Housing and accommodation improved Facilitation of "Local Mining Forum" for impact follow-up and problem and possibility solving on municipality level together with stakeholders and industry Support for new inhabitants to settle in Sodankylä Cooperation with national-level networks such as Finnish Network for Sustainable Mining 	<ul style="list-style-type: none"> The results of follow up survey for local people, every second year, about the experienced impacts of mining Number of inhabitants, male/female ratio, % of persons working at mine registered in the municipality Traffic safety increased: less accidents and less experienced unsafety Cooperation agreements on voluntary basis with different actors, such as mining forum
ECOLOGICAL SUSTAINABILITY	<ul style="list-style-type: none"> Protection of values and diversity of the nature Protection of the wide recreational use of nature possibilities Additional voluntary nature compensations 	<ul style="list-style-type: none"> Local knowledge about the nature and quality expectations shared and taken into account by mining industry and authorities Active follow up of reports delivered by mining industry and authorities about the environmental impacts: if needed additional research and measurements as well as actions required Development of cooperation and communication about the environmental impacts Development of communication / information tools of the mining industry impacts on waters in surrounding environments 	<ul style="list-style-type: none"> Research evidence about the diversity of nature Recreational use of lakes and rivers is attractive also in long term Recreational use of nearby areas close to mine sites is attractive when mining projects are in operation and after closure
ECONOMICAL SUSTAINABILITY	<ul style="list-style-type: none"> Positive impacts for local economy Diverse structure of the business and livelihoods 	<ul style="list-style-type: none"> Consistent land use planning – participation on regional-level land use planning + identification for the possible need of municipal-level general/strategic land use planning Support the local entrepreneurs to get involved in into mining industry value chains Mining service centre development Establishment and marketing activities for the new companies for different sectors Right content and timed services (office and other premises) for companies and enterprises Cooperation with Lapland's Arctic industry and circular economy cluster Negotiation possibilities identifying fund/foundation Impact evaluation and follow up 	<ul style="list-style-type: none"> New jobs and recruitment of locals New companies and entrepreneurs Growth of companies Growth of tax revenue from jobs and business sector for municipality Existing jobs sustaining, including traditional livelihoods such as reindeer herding Voluntary agreements between different stakeholders, for example "fund"/"foundation" Evaluations about the indirect employment impacts for other sectors Growth of jobs on other sectors than mining Mining companies' procurement % from local service providers

Table Kantola Anna 2018, translated and modified version of the SIMP table of Sodankylä Municipality's Mining Programme, based on stakeholder process results. The SIMP of Sodankylä Municipality has been prepared together with wide range of local stakeholders, including different livelihoods and business sectors (mining, exploration, tourism, reindeer herding, services), associations representing villages near the mining sites, as well as third-sector actors in welfare services, education and nature-related organizations, such as hunting and fishing associations as well as nature conservation organizations. Also research reports have been in use, e.g. Social Impacts of Mining in Sodankylä <https://lauda.ulapland.fi>



Sodankylä Municipality's Mining Programme 2018–2021

Contacts and full version of the mining programme:
www.sodankyla.fi



Sodankylä
Lapin tahtikunta



More information about REGINA
www.nordregio.org