

# NORDGREEN

## USING PPGIS SURVEYS AS A PLANNING TOOL WORKING PAPER 2021 CITIZEN ENGAGEMENT

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# 1 Introduction

This NORDGREEN working paper describes the work with citizen engagement in the context of everyday environments and green spaces in local urban planning across four Nordic cities: Espoo and Ii in Finland, Stavanger in Norway, and Vilhelmina in Sweden. The cases provide interesting insights into how participation and the use of experiential citizen knowledge can be developed by using digital tools for participatory mapping. Public Participation GIS (PPGIS) surveys have been developed and implemented between research and city partners with the overall aim of using the results to inform local land-use processes and cross-sectoral management of green spaces for health and well-being outcomes.

The approach to participatory mapping applied in NORDGREEN has been used to understand citizens' needs, demands and use of green and urban spaces allowing people to be involved in planning processes through a digital platform (see Textbox 1). The surveys in the four partner cities were developed using Maptionnaire, a map-based community engagement software and data collection tool, developed by the Finnish company Mapita. Places, routes, and areas could be located with precision and qualitative information using this tool.

The working paper consists of three main sections. The first contains an overview of the four case study surveys. The second provides more detailed descriptions of the processes of implementation of the surveys; their objectives and the steps of implementing PPGIS, as well as results and preliminary analysis. The working paper concludes with an evaluation on the shared experiences across the four surveys, including dissemination activities and collaboration with municipal partners.

## PPGIS DEFINITION

*Public participatory geographic information systems, or PPGIS, is the use of mapping methods (mainly digital ones) to collect and reflect users' needs, interaction and opinions about certain geographical areas (Haklay & Francis, 2018). It is a process of engaging the public in developing and using spatial information to improve the quality of decision-making processes, often about land use, preferably in an early stage of planning (Brown & Kytta, 2014), more generally the approach allows for suggestions and ideas of improvement for existing areas from the broader public.*

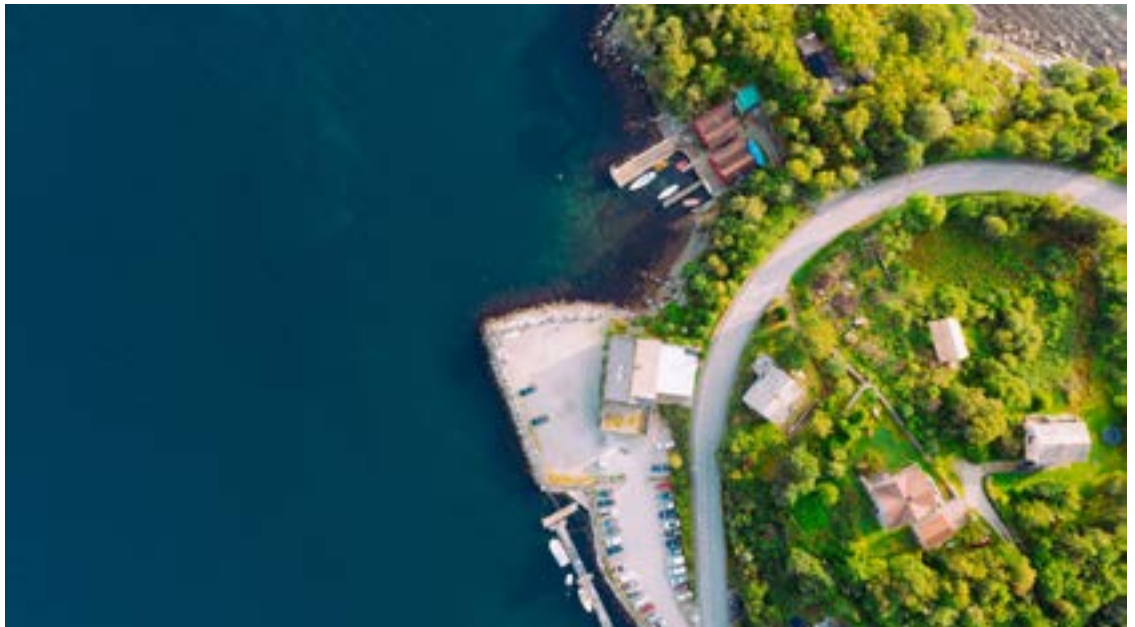
## Overview of the surveys

The table below provides an overview of the four survey cases. The following section contains detailed descriptions of each case. In terms of size and context, Stavanger and Espoo are both larger cities, whereas Ii and Vilhelmina are sparsely populated. However, the PPGIS surveys in Finland target the entire cities geographically, while Vilhelmina and Stavanger the surveys were implemented in specific areas, to meet the local needs and interests of these cities. Together, these four cases provide an interesting range of green space development for public health outcomes in the Nordic countries.

TABLE 1 OVERVIEW OF PPGIS DATA COLLECTIONS

	<b>Espoo: My Espoo on the Map</b>	<b>li: Everyday environments and wellbeing in li</b>	<b>Vilhelmina: Development of Kittelfjäll and Övre Vojmådalen</b>	<b>Stavanger: Green space usage and perceived health</b>
<b>Research partner responsible for survey</b>	Aalto	Aalto	Nordregio and Aalto	NMBU and Nordregio
<b>Data collection Data collection period</b>	21.8.2021-31.10.2020	13.5.-31.7.2021	25.3.2021-1.5.2021	10.2021-12.2021
<b>Description of sampling strategy</b>	A random sample of 15000 citizens aged 18-80; advertisement in city communications and social media; youth survey included in school curriculum	An invitation letter mailed to one adult member of each household in the municipality of li (mailed to 4500 respondents, all adults in the household were encouraged to answer); advertisement in municipal newspaper and social media	The survey was advertised by Destination Kittelfjäll and Vilhelmina municipality with support from Nordregio. The survey was advertised on local webpages and in social media channels. QR codes and posters were also published locally in Övre Vojmådalen.	An open survey sent out by the City of Stavanger, advertised on the city's webpages and social media channels.
<b>Final sample size</b>	6605 participants and 69839 location markings	400 participants and 3484 location markings	340 participants and 1025 location markings	577 participants and 944 location markings
<b>Representativeness of study population</b>	In the adults' survey overrepresentation of groups with high education level and under-representation of respondents younger than 30 years. The survey reached 1.2 to 3.4 percent of adult population in all City of Espoo postal code areas	Some over-representation of women in the sample (60% compared to 48% of total population). Significant overrepresentation in employed respondents, underrepresentation of unemployed respondents.	28 respondents are permanent residents, 2 work in the area, 123 are seasonal residents and 81 visitors.  Small over-representation of female in the sample (55% compared to 49% of total population).	High representation of female participants and more than half have completed higher education. More than half of the participants are also born in the city.
<b>Survey topics</b>	Everyday use of urban spaces, perceived quality of the living environment, participant views on future land use planning and management	Everyday use of urban spaces, perceived quality of the living environment, participant views on future land use planning and management	Use and needs of different stakeholder groups (residents vs visitors) in summer/ winter seasons, general views on the future development, previous participation, attitude towards public participation	Studying citizens' activities and use of recreational outdoor spaces, general ideas and suggestions for future development, previous participation, attitude towards public participation

<b>Language options</b>	Finnish, Swedish, and English	Finnish	Swedish and English	Norwegian and English
<b>Mapping tasks</b>	Home location, frequently visited destinations, special places, development ideas, places for new housing, important centers	Home location, frequently visited destinations, special places, development ideas for the municipal center and villages, development ideas for green and blue areas	Home location, visited locations and activities as distributed over seasons, areas to be protected, ideas for future development	Everyday activities and recreational places in relation to season, favorite places, ideas for future development
<b>Non-spatial survey questions</b>	Personal and household-level background variables; perceived health and quality of life; mobility restrictions; prior participation in participatory planning	Personal and household-level background variables; perceived health and quality of life; mobility restrictions; prior participation in participatory planning	Personal and household-level background variables, affiliation with the study area (visitor, permanent / seasonal resident), outdoor activity, health and wellbeing, views on the future development of Kittelfjäll	Personal and household-level background variables; health and well-being, perception of the neighborhood and community, attitude towards future development
<b>Primary data stored at (according to data privacy notice)</b>	Aalto and City of Espoo	Aalto and the municipality of Ii	Nordregio	Nordregio and NMBU



## 2 PPGIS implementation in four Nordic municipalities

The following section explain the designs and implementations of the PPGIS surveys in each of the municipalities.

### Espoo: My Espoo on the map

#### Recruitment of Citizen Participants

The survey in Espoo was implemented through three different strategies. First, the Aalto team invited a random sample of 15.000 citizens between the ages of 18-80 to respond to the survey via mail. Second, the city of Espoo opened a call for responses from all citizens, which was widely circulated in city communications and social media. Third, a slightly simplified version of the survey, targeting youth in 9th grade and in upper secondary schools was implemented. To this end, a teaching session planned around the survey emphasized the importance of sensitivity to the everyday living environment and of becoming an active citizen. The children were asked to take photos of important places in their

living environment, and after discussing their preferences in groups, they filled out in the survey.

The survey covered themes about (i) relevant places in respondent's everyday life (ii) places that have a special meaning (positive or negative) to respondents (iii) information about respondent's perceived health and well-being (iv) respondents' ideas for future city development and planning and (v) information about the respondents' previous public participation experiences. (See Appendix 1 for survey questions).

#### Implementation

The survey was open between August and October 2020. A reminder postcard was



FIGURE 1: THE START PAGE OF THE ESPOO PPGIS SURVEY



FIGURE 2: EXAMPLE OF ONE OF THE MAPPING QUESTIONS IN THE ESPOO SURVEY

sent to recipients of the survey invitation via random sampling in September.

All three strategies to implement the survey were successful, totalling 6600 respondents, who shared 69.839 location markings altogether. In fact, this survey is the largest PPGIS dataset not just in Finland, but across the Nordic countries. The Covid-19 pandemic has not significantly affected the data collection procedure or the quality of the PPGIS data.

### Results

After the completion of the survey, the collaboration between the Aalto and Espoo teams focused on disseminating the results among planners and officials from other sectors at the municipality of Espoo.

Two workshops were held in early 2021 to discuss knowledge needs and requirements for making use of the data set for planning purposes. Based on this, all survey responses were uploaded to the

LocusCloud planning system used in the city. In May 2022, a third workshop was organized to familiarize the planners with the data and to identify further needs for metadata and support, further analysis and future survey implementations. Each workshop attracted 35-50 participants from the planning sector and other departments, showing a significant interest towards using the results as part of their planning practice.

The survey data has been used as input for developing a vision for an Espoo strategic planning project and as basis for several public participation workshops. In order to show to the public how survey results have impacted planning, experiences of using the data have been reported by individual planners as well as researchers and Espoo partners in the Nordgreen project. The experiences are described in reflective blog posts on the Espoo website in a section dedicated to the survey.



# Stavanger: Outdoor environments and a greener everyday life in Kvernevik

## Background

Situated in the southwest coast of Norway, Stavanger is the country's fourth largest city with a population of approximately 145.000 inhabitants. Like Espoo, Stavanger have had previous experience with conducting PPGIS surveys and working with this type of spatial data. The survey aimed to provide information for the planning of the Kvernevik district, an area with approximately 5000 inhabitants. Given that the municipal administration had already finalized city-wide Green Plan, the neighbourhood area of Kvernevik was chosen because of the upcoming operationalisation of an area-based initiative (områdesatsning), a national programme to improve living conditions, well-being and public health in specific urban areas across the country. To this end, the survey aimed to align its general objectives with previous local development targets known as levekårsløftene (enhancing the standards of living) that

has been set by Stavanger in other areas of the city like Storhaug back in 2014 and is still ongoing (City of Stavanger, 2022). The Stavanger survey was developed and implemented by Nordregio and NMBU together with the City of Stavanger.

## Recruitment of Citizen Participants

While the survey was open to all citizens in Stavanger, the priority was to recruit respondents in the Kvernevik area. Ensuring broad participation happened in close collaboration with the City of Stavanger. Part of this collaboration process involved piloting the survey with local organizations, such as Frivillighetssentralen, to receive feedback on user friendliness and relevance of questions and mapping exercises. After the testing, the final version of the survey was launched. The City of Stavanger advertised the survey on its webpages and used social media to encourage participation. All in all, the outreach resulted in 575 participants responding to



FIGURE 3: THE INTRODUCTION PAGE OF THE KVERNEVIK SURVEY, SURVEY AVAILABLE IN NORWEGIAN AND ENGLISH



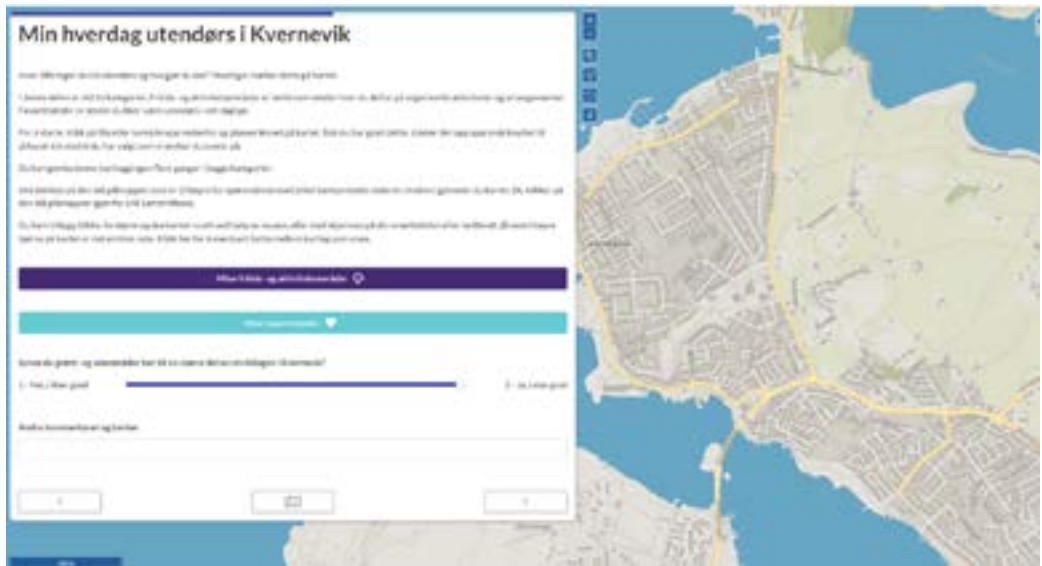


FIGURE 4: PARTICIPANTS WERE ASKED ABOUT "MY EVERYDAY SPACES" IN THE KVERNEVIK SURVEY

the survey, a substantial outcome for the Kvernevik area which has approximately 5000 residents.

### Implementation of the surveys

The survey in Stavanger was available from October 2021 and closed in early December of the same year. The survey had a similar structure to the other NORDGREEN surveys, but emphasized questions related to how local outdoor spaces can be improved to promote the use of recreational green areas (see appendix for survey questions). While the survey was launched, students at NMBU were involved in the research process through master's course on public participation in public health. The students gained access to preliminary data as of November 2021 which at the time was provided by approximately 281 respondents and resulted in a working report.

### Results

Results from Kvernevik survey showed that respondents highly value the time they

spent in nature and that there is great support for the development of green spaces in the municipality. After the survey closed, the consideration of health-related data has been prioritized. In general, the results from activities mapped by respondents, most of whom indicated that they were born in Stavanger, reflected that the most frequented recreational areas were around the local center, sports and recreational areas in Kvernevik. The results also indicated on wishes for development of "blue-areas" as well, including upkeep of bathing areas and urban hiking trails along the coast. Among those who completed the survey, there was a higher representation of female participants, and more than half of all the respondents have completed higher education. The cooperation between the planners from Stavanger and Nordgreen researchers are ongoing to provide useful basis for future neighborhood development of Kvernevik.

# li: Everyday environments and wellbeing

## Background

li is a municipality located in the north part of Finland with a population of 9.900 inhabitants. The aim of the survey in li was to inform the ongoing strategic master plan process. li merged with the municipality of Kuivaniemi in 2007, therefore the survey acknowledged the large geographic area and included questions to harvest respondents' opinions and perspectives about the strain that a dwindling population outside the central region has placed on local services. The survey questions were carefully formulated to avoid raising expectations about unfeasible developments in the municipality, but still to uncover the respondents' perspectives and experiential knowledge that could be helpful to inform the future development.

The survey relied on experiences from the Espoo, and the main focus was on the residents' ideas about the development of green areas for recreation, quiet areas and conservation areas, riverbanks and shoreline recreational routes.

## Recruitment of Citizen Participants

A member from each household in the municipality was invited via mail to participate in the survey. Approximately 4500 residents received the invitation that extended the participation in the survey not only to the recipient of the letter but also to all members of the household under legal age.

As the survey targeted the entire municipality, the communication department of li also posted the invitation in local newspapers, online communications and social media. The survey reached the participation of 400 respondents.

## Implementation of the survey

The survey was carried out in the late spring and summer of 2021 in collaboration between the city of li and the Aalto research team. The 400 participants placed altogether 3484 location markings, emphasizing service needs and green areas. Some respondents contacted local planners or researchers

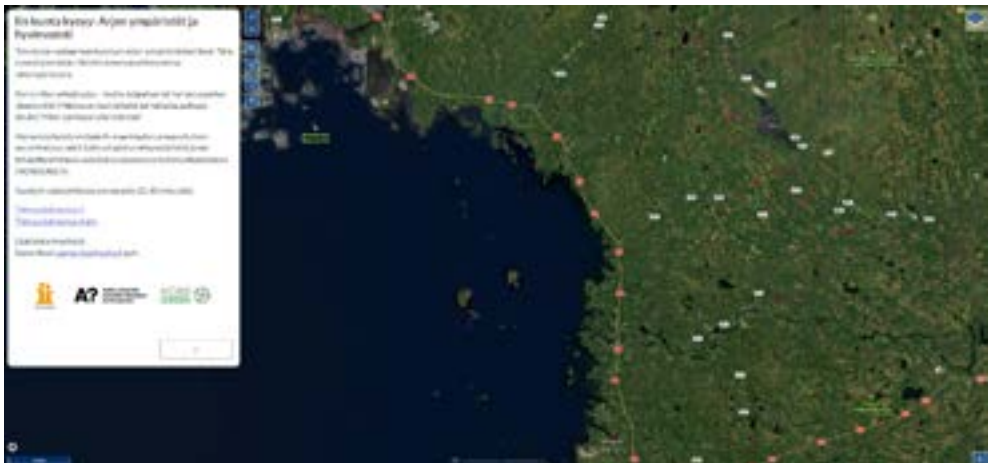


FIGURE 5: THE TITLE PAGE OF THE II SURVEY

to give feedback or ask for information regarding municipal planning.

### Results

The responses highlighted the need for public services and maintenance of public recreational spaces in less populated areas of the municipality. The results will inform the development of recreation areas in Ii and could potentially serve as a basis for participatory budgeting projects to be voted on in 2022.

After the survey, the Aalto team worked together with Ii planning and

communications to disseminate the results to the external consultants working on the Ii strategic master plan. The goal is to upload the results to an open map service for use in planning and as a basis for future participation. After lifting of Covid-19 restrictions, a researcher from Aalto visited Ii to strengthen collaboration between the research team and the municipality, and to work side by side on the development of the useability of the survey results.

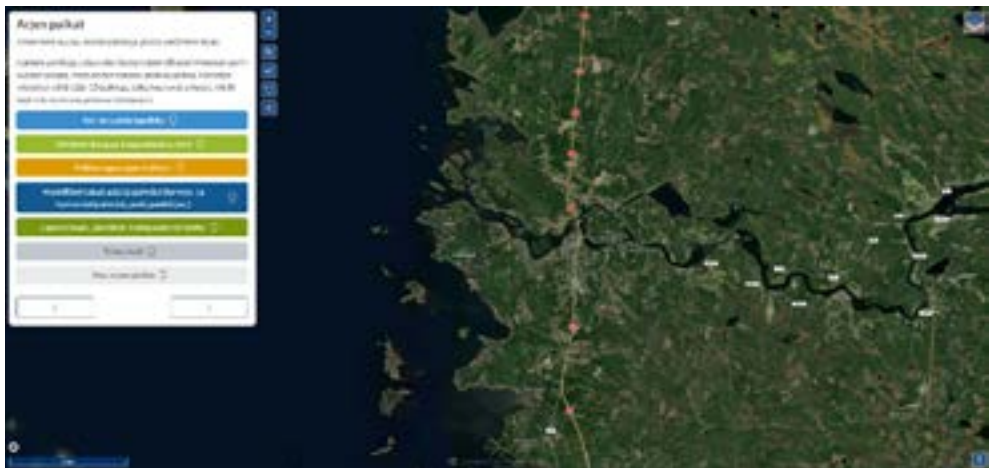


FIGURE 6: EVERYDAY PLACE MAPPINGS –PAGE FOCUSED ON THE Ii CENTRAL VILLAGE

# Vilhelmina: Development of Kittelfjäll and the Övre Vojmådalen area

## Background

Vilhelmina is a municipality that spans a large area in northern Sweden yet holds a small population of 6400 inhabitants. The main interest of the survey was to explore the current patterns of use and opinions about of Övre Vojmådalen, particularly the area surrounding Kittelfjäll, which is a popular tourist destination during wintertime. Destination Kittelfjäll is an influential network in the area that represents the hospitality sector and acts as a platform for collaboration with local associations and organizations in Övre Vojmådalen and the other business outside the region. Gathering the perspectives of different stakeholder the survey provided important information about the needs and demands of the local community, as well as the seasonal residents. For example, the survey identified the main (preferable?) outdoor activities according to the spring/winter and summer/fall seasons. This knowledge is relevant to work towards the

Övre Vojmådalen vision of becoming a vibrant mountain area, sustainable as a destination & as a place to live and work . The survey was coordinated and implemented by Nordregio in cooperation with Destination Kittelfjäll and the municipality. The Aalto team was involved in the survey design phase.

## Recruitment of Citizen Participants

The PPGIS survey outreach was facilitated by Destination Kittelfjäll and Vilhelmina municipality in collaboration with Nordregio. The survey was advertised on local webpages and in local social media channels. Physical posters with QR codes were also published in Övre Vojmådalen. This approach worked well as the local knowledge of where and when to advertise the survey drew attention seasonal residents in particular. The survey reached 340 participants who altogether placed 1025 location markings on the map.



FIGURE 5: TITLE PAGE OF THE VILHELMINA PPGIS SURVEY, AVAILABLE IN SWEDISH AND ENGLISH

<sup>1</sup> <https://destination.kittelfjall.com/>

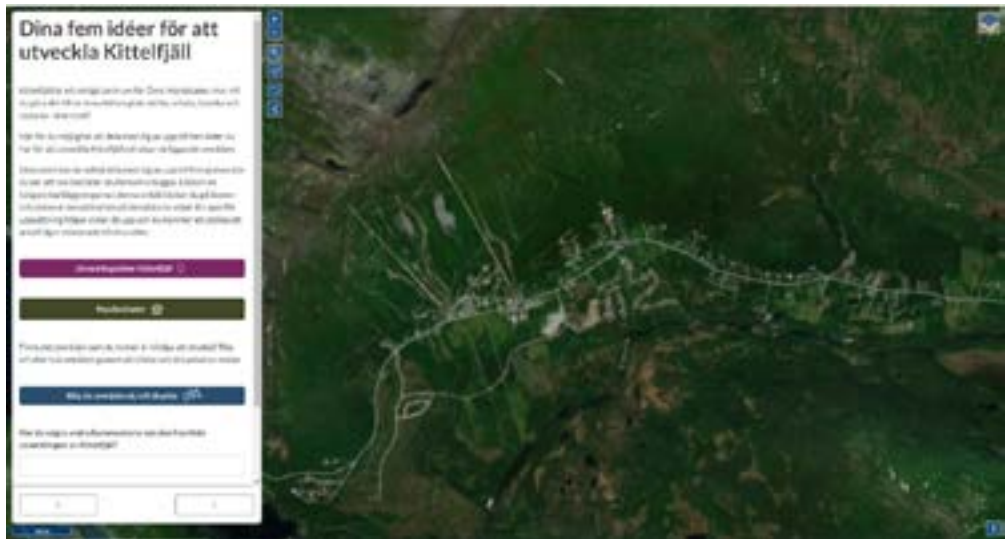


FIGURE 6: THE MAPPING PAGE OF FUTURE IDEAS FOR KITTELFJÄLL AREA

### Implementation of the surveys

The Vilhelmina survey was online between March and May 2021. The implementation run parallel to the recruitment of participants.

### Results

In total, 340 respondents between 15-76 years-old participated in the survey. Given the size of the population which is around 6400 in Vilhelmina overall, and the context of Övre Voymådalen which is sparsely populated, the survey reached out to a considerable group.

The results highlighted different patterns of behaviour and preferences among the respondents and indicated several ideas for the development that were mapped by local residents and visitors. The municipality was particularly interested on the information of where people spend time. The residents and visitors made use of different places across Övre Voymådalen. For example, the visitors spent time closer to the ski resorts and/or catered for tourism. Many respondents – both among residents and visitors - commented on the

needs for a bigger local shop, WCs, parking and other practical amenities.

The implementation of alpine skiing, hiking and biking trails were the most popular suggestions for the development of the area. Not surprisingly the residents and visitor expressed different perspectives on the development of the area. For example, visitors suggest development of seasonally related activities while locals suggest development of basic services, such as gyms, shopping and service centers.

The results also suggested that most of the respondents have a positive perspective on the future development of the area; more than half of them reported either "very optimistic" (<90 on a scale 0-100) or "optimistic" (<70 on a scale 0-100). There was a slight difference in the level of confidence with future development between permanent and seasonal residents, average score among permanent residents being 67.9/100 and 77.5/100 among visitors and seasonal residents.





### 3 Participatory mapping surveys: some reflections

#### PPGIS as a source for education and scientific knowledge

The outcomes of the four PPGIS surveys have inspired several educational activities as well as the publication of peer-reviewed articles, presentations in conferences, and the disseminations to non-academic audiences in domestic and international events and platforms.

When it comes to education, the results of the surveys have been of interest to students in the Spatial Planning and Transportation Engineering masters' program at Aalto University. Currently two masters' theses have been completed related to the survey results, one examining the connection

between spatial quality transport modes, another detailing the process of building participatory workshops on top of existing citizen knowledge gathered through the survey. Three other masters' theses are in progress. Two bachelors' theses were also completed utilizing the survey results, one about childrens' experiences and development needs in the neighborhood Espoonlahti in Espoo, the other about citizens' resistance to densification projects. The outcomes of the surveys in Espoo and li have also been used in Master program course "Urban Experience" from Aalto University as

a basis for analysis in group projects. Similarly, for the Kvernevik survey, while it was launched, students at the Norwegian University of Life Sciences (NMBU) in Norway gained access to preliminary data and the early analysis resulted in a report presented at the university and the City of Stavanger. In addition, one master's thesis is applying the data from the Kvernevik survey which is expected to be completed in the spring of 2023.

The outcomes of the survey have also been the basis for the elaboration of forthcoming scientific articles that will be reporting the experiences and learnings from the PPGIS surveys and are expected to be published by the end of 2023. Among these are "Prioritizing participatory planning solutions: developing priority categories based on PPGIS data" that builds on another MyEspoo survey (from which the survey mentioned here has built on), and an article focusing on recreational use of cemeteries.

Besides the publication of peer-review articles the outcomes of the surveys have been disseminated in academic forums. Preliminary results of the research were presented at the International Conference on Computational Urban Planning and Urban Management (CUPUM) organized in June 2021 as an online event in Helsinki. "Prioritizing participatory planning solutions: developing priority categories based on PPGIS data" by Marketta Kyttä, Saana Rossi, Eveliina Harsia and Anna Kajosaari" and "Pathways for Systematic Implementation of PPGIS Data into Planning" by Saana Rossi and Eveliina Harsia. In 2022, results were presented at the annual congress of the European Planning association AESOP in Tartu, Estonia. Marketta Kyttä gave a

keynote lecture about the use of PPGIS in building living environments that promote health and well-being, and Saana Rossi presented with the title "Identifying Trading Zones as a Tool to Increase the Transparency of Urban Planning Processes", exploring the use of PPGIS survey results as a basis for more influential participation in planning projects.

The Aalto research team has also presented the activities and preliminary results of the citizen engagement research in several non-academic platforms, such as events organized by the Finnish Urban Academy – network, and the EU Green Week side event coordinated by Nordregio. The Aalto research team has also been actively involved in the dissemination of the Espoo survey results with the City of Espoo communications team. These activities have included preparation of short articles describing the PPGIS data collection process and the use of the "My Espoo on the Map"- survey results both in urban planning practice and in empiric academic research. Communications have also taken place through the Participatory Mapping Institute –homepage and through the personal social media accounts of the Aalto researchers.

In 2023, the Aalto team will also be hosting a NORDGREEN City Talk, the first in a series of webinars that will bring together representatives from the municipalities that implemented the PPGIS surveys to discuss the added value and shortcomings of using this method, as well as how the outcomes of the surveys have informed planning in the different contexts.



## PPGIS as a tool for collaboration between researchers and practitioners

There is a gap between researchers' development of digital PPGIS tools and the application of them among practitioners, i.e. urban planners (Kahila-Tani et al., 2019). However, what is often seen to be obstacles in applying PPGIS as a method for participatory planning is (i) reaching a diverse group of respondents (as the number of participants is often low and the demography among participants is often homogeneous) and (ii) effective arrangement of participation, where the aim of the project and the objectives of participation are easy for respondents to understand, and where there is potential to influence decision-making and outcomes on topics that lie in one's interest as a member of community. Some studies have suggested that results from PPGIS tend to have low levels of influence on decision-making process and actual outcomes of strategic planning, which might build resistance towards future participation, unless impact is increased and openly reported to the public. (Kahila-Tani et al., 2019)

Analogue participatory mapping methods such as public workshops with paper maps, come with risks of misinterpretation and loss of geospatial data. Therefore, another objective in PPGIS is the need for solutions of easy data gathering and processing of the results. (Maptionnaire, n.d.) Evaluations of the potential of digital tools to gather data of high quality and usability concludes these data sets are effective in providing feedback on planning solutions and in integrating these with existing GIS systems. This facilitates, although does not guarantee, the recognition of

user knowledge in relation to expert (planners') knowledge. The stage in which a participatory method is implemented in a planning process also affects its ability to influence this process. As like methods have historically been introduced late in the process, for example in the evaluation phase, the earlier it is introduced the bigger the potential to influence the decision-making in planning (Kahila-Tani et al., 2019) When all these steps work well, public participation in research and planning processes can bring added value to strategic urban planning.

Considering these objectives of and obstacles in PPGIS, digital, online solutions have become useful complementing tools and/or alternatives to analogue ones. Maptionnaire includes tools for designing map-based questionnaires, tools for collecting this information, and for analysing the data.

In the Nordgreen project, ways to make PPGIS data more useable for planners and thus more impactful have been developed and tested particularly at the city of Espoo. Preliminary results suggest that a deep commitment to integrating survey results with existing planning practices is necessary to improve the planners' access to PPGIS knowledge and increase the likelihood of it impacting planning outcomes. Upcoming research papers detail the findings and give suggestions for integration of practices and communicating impact to participants and the general public.

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# 5 Appendixes

## Espoo survey "My Espoo on the Map"

Welcome to the My Espoo on the Map survey! This survey collects experience-based information about the local environment from Espoo residents.

How is your everyday life in your home city, near your home, workplace or school? How do you travel from place to place? Which places are important or dear to you? Which places in Espoo should be developed? How? Tell us what your Espoo looks and feels like!

The information will be utilised in the City of Espoo's urban planning as well as in the research by Aalto University reviewing the urban living environment and its beneficial effects on health.

Completing the survey takes about 20–30 minutes.

More information on the survey:  
Saana Rossi [saana.rossi@aalto.fi](mailto:saana.rossi@aalto.fi)

### ***Background questions***

#### **Gender**

- Female
- Male
- Other
- I prefer not to answer

#### **Education**

- Comprehensive school
- Middle-level education (e.g. vocational degree, upper secondary school graduate)
- Lowest level tertiary education (e.g. technician, agrologist, horticulturist, diploma of culture and arts, college-educated nurse)
- Lower degree of higher education (e.g. bachelor's degree from a university or a university of applied sciences, engineer, sea captain)
- Higher education degree (e.g. master's degree from a university or a university of applied sciences, medical specialisation degree)
- Researcher education (licentiate or doctoral degree)

#### **Position**

- Student
- Employed
- Unemployed
- Retiree
- Other, what?

### **Native language**

- Finnish
- Swedish
- Other, what?

### **Your family**

- No children
- Under school-aged children
- School-aged children
- No minors
- I am a school pupil

### **Home**

Mark your home on the map. If you do not want to mark the exact location of your home, mark the junction that is closest to your home. We are asking for information about your home in order to study the borders of city districts, for example. We will not use this data in ways that would enable identifying individual people.

If you have more than one home, please mark your primary place of residence. You can place the rest of your homes on the map in the survey's next stage.

- *Mapping: Home*

Instructions: First, zoom the map to a desired level either by clicking the '+' sign or by rolling the map with the mouse or your fingers. You can also use the address search (the magnifying glass icon) to locate your home. Then, mark your home on the map by clicking the text in the button and then the map. If you marked a wrong location by accident, you can remove it by clicking the location point and then the 'remove' button.

### **Everyday places**

There are many places in our everyday life where we spend time.

Think of the places that you have visited regularly during the past year, excluding the exceptional circumstances caused by the coronavirus pandemic. Mark at least ten places that are a part of your day-to-day life, if you visit that many places regularly.

- *Mapping:* Workplace or study place
- *Mapping:* Shopping (store, shopping centre, market)
- *Mapping:* Recreational place
- *Mapping:* Personal matters and services (health and well-being services, post office, bank, etc.)
- *Mapping:* Your child's school, day-care centre or other day-care place, club
- *Mapping:* Second home
- *Mapping:* Other everyday place

### **How often do you go there?**

- Daily or almost daily
- Once a week or more often
- A few times a month
- About once a month
- Several times a year
- Once a year or more rarely

### **How do you usually travel there?**

- On foot
- By bicycle
- By public transport
- By car
- Some other way, how?

### **How do you feel about this place?**

Very positive ----- Very negative

### ***Special places***

In addition to the everyday places, we all have places that evoke very strong, positive or negative feelings in us. What places are especially important to you? What places cause negative feelings for some reason?

Think about the places that you have visited during the past year, excluding the exceptional circumstances caused by the coronavirus pandemic. Try to mark at least ten places again.

- **Mapping:** Special place

### **Characteristics of the place**

Very negative --- negative --- Neutral --- Positive --- Very positive

Social environment

Functionality of the environment

Appearance of the environment

Atmosphere of the environment

### **Explain in more detail how positively or negatively you view the place, in general and from the following perspectives:**

Social environment: e.g. community spirit, liveliness of social life, diversity of population, reputation, safety

Functionality of the environment: e.g. hobby opportunities, transportation, cultural life, services

Appearance of the environment: Tidiness, beauty, density, history, quality-price ratio of housing

Atmosphere of the environment: Liveliness, is it inviting, relaxation, closeness to nature, noise level, is it surprising

### ***My suggestions/development ideas***

How would you make Espoo an even better place to live and work in? On this page, you can share a development idea you have for a certain place. You can note down several ideas. On the next page, we will ask you about urban centres and the placement of new homes.

- **Mapping:** My development idea

#### **What is the topic of your idea?**

- Housing
- Transport and mobility
- Nature and environment
- Services
- Jobs
- Leisure time

#### **Tell us more about your idea!**

### ***Homes and centres***

Where would you place new homes and what should they be like? How could the residential building stock become more diverse?

Start by choosing a block of flats or a house. You can select several buildings on the map.

- **Mapping:** New blocks of flats/A block of flats

- **Mapping:** New houses/A house

#### **Which of the Espoo centres are important to you? How would you develop them?**

#### **Should Espoo have new urban centres in the future?**

- **Mapping:** Important centre

**Mark important centres on the map.** You can mark several centres.

**What kinds of blocks of flats?** Select by clicking the image.

**What kinds of houses?** Select by clicking the image.

### ***Local environment and well-being***

Our research studies the beneficial effects of local environment to health, which is why we would like to ask you a few questions about your current state of health. This will give us information on what kinds of effects environment may have on health.

#### **How would you describe the state of your health?**

- Very good
- Good
- Average
- Poor
- Very poor
- I prefer not to answer

#### **How is the quality of your life?**

Do you have some health issues that restrict your mobility?

- No restrictions
- Some restrictions, but not very serious
- Heavy restrictions
- I prefer not to answer

**Questions related to your participation**

Before this, have you taken part in surveys or interactions that are related to urban planning?

- Yes, online
- Yes, face to face
- I have not participated in any

**If yes, please specify which of the following you have participated in:**

- Face-to-face interactions organised by the city (e.g. public events, public zoning plan walk)
- Online interactions organised by the city (e.g. survey, official feedback channel)
- Contact with a city official
- Gave feedback or left a reminder
- Filed a complaint about a decision
- Took part in an online discussion about urban planning (e.g. social media groups, online discussion platforms)
- Took part in a resident society's actions or other actions striving to develop the city, area or local community
- Took part in local politics in a position of trust

**How do you believe the residents' opportunities to influence urban planning should be developed?**

Thank you for your participation.

Thank you very much for taking part in this survey and helping us to develop Espoo!





## Stavanger survey

### **Share your ideas about a greener everyday in Kvernevik**

Ensuring good recreational opportunities in parks, urban spaces and access to nature and green areas is key to Kvernevik's development and local communities.

In this survey, we are therefore curious to know: What do you enjoy here? What can be done to improve outdoor areas in Kvernevik and make these more sustainable? We invite you to share your thoughts and ideas.

It takes about 20-30 minutes to complete the survey.

Your answers are valuable to us and will provide useful knowledge in other planning contexts.

Participation is anonymous. Thank you for your contribution!

Our data policy

( ) I have read and agree to the terms of the data sharing and storage procedures of the project.

### **Your background**

- Gender
- Female
- Male
- Other

### **Place of birth**

- In Stavanger
- Another part of Norway
- Another European country
- Another country outside Europe

### **Year of birth**

### **How do you currently feel about general life satisfaction?**

- Very satisfied
- Satisfied
- Neutral
- Dissatisfied
- Very dissatisfied

### **To what extent has the Covid-19 pandemic affected your life satisfaction?**

- Very significantly
- Significantly
- Neutral

- Not significantly
- Not at all significant

**How would you describe the state of your physical health?**

- Very good health
- Good health
- Average health
- Poor health
- Very poor health

**In the polls below, please range to what degree you....**

- 1 = To a very small degree
- 5 = To a very large degree

Enjoy the area you live	1-2-3-4-5
Feel a sense of belonging in your community	1-2-3-4-5
During daytime, feel safe when you are outside	1-2-3-4-5
During evening time, feel safe when you are outside	1-2-3-4-5
Are part of a community	1-2-3-4-5

**My home**

**Where in Kvernevik do you live or work? Please mark this on the map.**

To start, click on the orange button below. An icon will appear. You place this on the map with a click. Alternatively, you can drop the icon in a nearby area.

By clicking on the blue arrow button to the right of the questionnaire window (or the map symbol in the bottom center) you reveal the map. You click on the blue arrow again to retrieve the questionnaire window.

You can also click, zoom and drag the map around using the mouse, or with the screen on your smartphone or tablet. At the top right of the map there is a small route. If you click on this, you can switch between map layers to be displayed.

**My home**

You can also write down the area you live if preferable

**My everyday in Kvernevik**

**Which places are important to you?** In this section, we would like to know how and where you spend time outdoors.

Here you have two categories to map. Activity and recreational areas mean places where you participate in organized activities or events. Favorite places can be where you like to be outdoors on a daily basis. To locate these places in Kvernevik, click on either one or both of the buttons below. Place the icon on the map. Once you have done this, some questions specific to the place you have chosen will show up.

You can repeat this mapping several times. By clicking on the blue arrow button to the right of the question window (or the map symbol in the bottom center) you reveal the map. You click on the blue arrow again to retrieve the questionnaire window.

You can also click, zoom and drag the map around using the mouse, or with the screen on your smartphone or tablet. At the top right of the map there is a small icon. If you click on this, you can switch between map layers to be displayed.

Activity and recreational areas

### **Everyday destinations**

(Activity and Recreational Areas – Pop-up questions)

#### **How often are you here?**

- Several times a day
- Every day
- Several times a week
- A few times per month
- A few times per year

#### **What do you do or experience here?**

With whom are you with?

- Family
- Friends
- Sports club, local organization, etc.
- Usually here alone
- Other

**If you are several people gathering, please indicate how many**

#### **How do you get here?**

- I walk
- I bike
- I use public transportation
- I drive by car
- I am passenger in a car
- Other

#### **Do you feel safe here?**

- Very safe
- Safe
- Neutral
- Unsafe
- Very unsafe

**During which time of the year do you come here?**

- Summer
- Autumn
- Winter
- Spring
- All year round

**Anything to add? Please elaborate.**

**(My favorite places – Pop-up questions)**

**How often are you here?**

- Several times a day
- Every day
- Several times a week
- A few times per month
- A few times per year
- What do you do or experience here?

**With whom are you with?**

- Family
- Friends
- Sports club, local organization, etc.
- Usually here alone
- Other
- If you are several people gathering, please indicate how many

**How do you get here?**

- I walk
- I bike
- I use public transportation
- I drive by car
- I am passenger in a car
- Other

**Do you feel safe here?**

- Very safe
- Safe
- Neutral
- Unsafe
- Very unsafe

**During which time of the year do you come here?**

- Summer
- Autumn
- Winter
- Spring
- All year round



**Anything to add? Please elaborate.**

**Do you think green outdoor areas should be a bigger part of Kvernevik's development?**

1 - No, it is fine

5 - Yes, much more is needed

1-2-3-4-5

### **Time Outdoors & Health**

Studies indicate that spending time outdoors have beneficial effects to our physical health and well-being. We would like to ask you a few questions about your perceived health and time you spend outside. This can give us more information about what effects the surrounding areas may have on health and well-being.

#### **Time outdoors is important to my health**

- Strongly agree
- Agree
- Neutral
- Disagree
- Strongly disagree

#### **How do you get around when heading outdoors?**

- Daily
- Weekly
- Monthly
- Rarely
- Never

#### **How do you get here?**

- I walk
- I bike
- I use public transportation
- I drive by car
- I am passenger in a car
- Other

#### **Which of the following may improve access to green space and outdoor areas?**

- Better bike paths
- Less vehicle traffic
- Better lighting to and from places such as parks and sports facilities
- Prioritize safer places for children and young people
- Roads, routes and paths that are green
- Other

#### **If you chose 'other', please elaborate**

What is an attractive outdoor environment for you? Share 3-5 words that comes to mind

**On average, how many hours do you spend per day outdoors during spring?**

- Less than 1 hour
- 1-3 hours
- 4-7 hours
- More than 7 hours

**On average, how many hours do you spend per day outdoors during summer?**

- Less than 1 hour
- 1-3 hours
- 4-7 hours
- More than 7 hours

**On average, how many hours do you spend per day outdoors during autumn?**

- Less than 1 hour
- 1-3 hours
- 4-7 hours
- More than 7 hours

**On average, how many hours do you spend per day outdoors during winter?**

- Less than 1 hour
- 1-3 hours
- 4-7 hours
- More than 7 hours

**Other comments**

**Ideas for the future in Kvernevik**

**What will make Kvernevik a better place to live and to visit?** In this section, we want you to locate and add your ideas for Kvernevik on the map.

As in the previous sections, press the button below to start. Then place the icon on the map where you envision your idea. Once you have done this, the related questions we want you to answer will appear. You can repeat this several times and come up with different ideas.

**My idea**

**How optimistic do you feel about the future development of Kvernevik?**

- \* Not so optimistic
- \* 5 - Very optimistic
- \* 1-2-3-4-5

**Other comments**

**More about you and previous participation**

**Education**

- Primary education
- Secondary education



- Tertiary education
- Higher education (university or vocational)

**Are there children in your family? (Select several if applicable)**

- Kindergarten or preschool
- Primary school
- Secondary school
- No minors
- No children

**Have you previously participated in surveys or processes related to local development in Kvernevik or Stavanger?**

- Provided oral or written feedback to the municipality, including input to the municipal plan and other planning processes
- Filed an appeal or written an objection to a planning decision
- Participated in online discussions about planning and development (eg social media groups, online discussion platforms, viutviklerstavanger.no)
- Participated in organizations or other local community initiatives
- Participated and / or active in local politics

**Would you like to be more involved in the local development processes? If so, how?**

**How do you experience the opportunities to participate in these processes today?**

- 1 - Not inclusive  
5 - Very inclusive

**How would you like to be informed about local developments?**

- Receive physical mail
- Via emails and newsletters
- On social media and various websites
- By attending local meetings with different groups or associations
- Via digital tools for participation

**Other comments**

Done!

## li survey "lin kunta kysyy"

### **lin kunta kysyy: Arjen ympäristöt ja hyvinvointi** **li municipality asks: Everyday environments and well being**

Welcome to the respond to a survey about your everyday environment in li! This survey collects experience-based information about the local environment from li residents.

How is your everyday life in your home city, near your home, workplace or school? How do you travel from place to place? Which places in li are important or dear to you? Which places should be developed?

The information will be utilised in li planning as well as in the research by Aalto University reviewing the urban living environment and its beneficial effects on health (NORDGREEN).

Completing the survey takes about 20–30 minutes.

More information on the survey:

Saana Rossi saana.rossi@aalto.fi

#### ***Background questions***

##### **Gender**

- Female
- Male
- Other
- I prefer not to answer

##### **Education**

- Comprehensive school
- Middle-level education (e.g. vocational degree, upper secondary school graduate)
- Lowest level tertiary education (e.g. technician, agrologist, horticulturist, diploma of culture and arts, college-educated nurse)
- Lower degree of higher education (e.g. bachelor's degree from a university or a university of applied sciences, engineer, sea captain)
- Higher education degree (e.g. master's degree from a university or a university of applied sciences, medical specialisation degree)
- Researcher education (licentiate or doctoral degree)

##### **Position**

- Student
- Employed
- Unemployed
- Retiree
- Other, what?

##### **Native language**

- Finnish
- Swedish
- Other, what?

##### **Your family**

- No children

- Under school-aged children
- School-aged children
- No minors
- I am a school pupil

### **Home**

Mark your home on the map. If you do not want to mark the exact location of your home, mark the junction that is closest to your home. We are asking for information about your home in order to study the borders of city districts, for example. We will not use this data in ways that would enable identifying individual people.

If you have more than one home, please mark your primary place of residence. You can place the rest of your homes on the map in the survey's next stage.

- *Mapping: Home*

Instructions: First, zoom the map to a desired level either by clicking the '+' sign or by rolling the map with the mouse or your fingers. You can also use the address search (the magnifying glass icon) to locate your home. Then, mark your home on the map by clicking the text in the button and then the map. If you marked a wrong location by accident, you can remove it by clicking the location point and then the 'remove' button.

### **Everyday places**

There are many places in our everyday life where we spend time.

Think of the places that you have visited regularly during the past year, excluding the exceptional circumstances caused by the coronavirus pandemic. Mark at least ten places that are a part of your day-to-day life, if you visit that many places regularly.

- *Mapping: Workplace or study place*

- *Mapping: Shopping (store, shopping centre, market)*

- *Mapping: Recreational place*

- *Mapping: Personal matters and services (health and well-being services, post office, bank, etc.)*

- *Mapping: Your child's school, day-care centre or other day-care place, club*

- *Mapping: Second home*

- *Mapping: Other everyday place*

### **How often do you go there?**

- Daily or almost daily
- Once a week or more often
- A few times a month
- About once a month
- Several times a year
- Once a year or more rarely

### **How do you usually travel there?**

- On foot
- By bicycle
- By public transport
- By car
- Some other way, how?

## **How do you feel about this place?**

Very positive ----- Very negative

### ***Special places***

In addition to the everyday places, we all have places that evoke very strong, positive or negative feelings in us. What places are especially important to you? What places cause negative feelings for some reason?

Think about the places that you have visited during the past year, excluding the exceptional circumstances caused by the coronavirus pandemic. Try to mark at least ten places again.

#### **- Mapping: Special place**

### **Characteristics of the place**

Very negative --- negative --- Neutral --- Positive --- Very positive

Social environment

Functionality of the environment

Appearance of the environment

Atmosphere of the environment

### **Explain in more detail how positively or negatively you view the place, in general and from the following perspectives:**

Social environment: e.g. community spirit, liveliness of social life, diversity of population, reputation, safety

Functionality of the environment: e.g. hobby opportunities, transportation, cultural life, services

Appearance of the environment: Tidiness, beauty, density, history, quality-price ratio of housing

Atmosphere of the environment: Liveliness, is it inviting, relaxation, closeness to nature, noise level, is it surprising

### ***My suggestions/development ideas***

How would you make li an even better place to live and work in? On this page, you can share a development idea you have for a certain place. You can note down several ideas. On the next page, we will ask you about urban centres and the placement of new homes.

- **Mapping:** My development idea

#### **What is the topic of your idea?**

- Housing
- Transport and mobility
- Nature and environment
- Services
- Jobs
- Leisure time

Tell us more about your idea!

### ***Development of centres and villages***

Here you can give ideas for developing the li centre and villages. Focus on places that are important to you!

On the next page, you may mark development ideas related to natural environments and shoreline, as well as suggest places for conservation.

- Mapping: Development idea of a centre or village

### ***Development of natural environments and shoreline areas***

Here you can give ideas for developing the li natural environments. Focus on places that are important to you!

You may map development ideas in places you wish would change in the future, and conservation in areas you wish will remain as they are.

- Mapping: Development idea of natural environment

- Mapping: Conservation of natural environment

### ***Development of waterfront areas***

Waterfront areas and the archipelago can be developed for recreational purposes. Which places are important for recreation? What kind of shoreline routes do you hope for?

- Mapping: Development idea of riverbanks

- Mapping: Development idea of seashore

You may draw important or hoped for shoreline recreational routes.

- Map line:Recreational routes

### ***Local environment and well-being***

Our research studies the beneficial effects of local environment to health, which is why we would like to ask you a few questions about your current state of health. This will give us information on what kinds of effects environment may have on health.

**How would you describe the state of your health?**

- Very good
- Good
- Average
- Poor
- Very poor
- I prefer not to answer

**How is the quality of your life?**

**Do you have some health issues that restrict your mobility?**

- No restrictions

- Some restrictions, but not very serious
- Heavy restrictions
- I prefer not to answer

**Questions related to your participation**

**Before this, have you taken part in surveys or interactions that are related to urban planning?**

- Yes, online
- Yes, face to face
- I have not participated in any

**If yes, please specify which of the following you have participated in:**

- Face-to-face interactions organised by the city (e.g. public events, public zoning plan walk)
- Online interactions organised by the city (e.g. survey, official feedback channel)
- Contact with a city official
- Gave feedback or left a reminder
- Filed a complaint about a decision
- Took part in an online discussion about urban planning (e.g. social media groups, online discussion platforms)
- Took part in a resident society's actions or other actions striving to develop the city, area or local community
- Took part in local politics in a position of trust

**How do you believe the residents' opportunities to influence urban planning should be developed?**

Thank you for your participation.



## Vilhelmina Survey

### Share your future ideas for Övre Vojmådalen, Vilhelmina

Welcome to the survey for Övre Vojmådalen, Vilhelmina!

We would like to collect your experience-based information about the local environment in Övre Vojmådalen and Destination Kittelfjäll. Whether you live here all year round, visit your second home from time to time, or are a temporary visitor, please share your thoughts and ideas.

The survey has five parts. In some places, you will be asked to do mapping activities, so please follow the instructions for these. Completing it will take about 20–30 minutes.

Thank you for taking the time to share your thoughts!

Our data policy

( ) By clicking here, you agree with the terms of data storage and information provided in this survey.

### Your background

Please share some general information about yourself.

#### Gender

- Female
- Male
- Other
- I prefer not to answer

#### Education

- Primary education
- Secondary education
- Vocational degree
- Higher education

#### Occupation

- Student
- Employed
- Employed (seasonal)
- Self-employed
- Self-employed (seasonal)
- Unemployed
- Retiree
- Other

#### Year of birth



**Are there children in your family?**

- No children
- Under school-aged children
- School-aged children
- No minors

**Outdoor time & well-being**

Studies show that there are beneficial effects of the local environment to our physical health and well-being.

We would like to ask you a few questions about your perceived health and time you spend outside. This can give us information on what kinds of effects the areas around you may have on your well-being.

**How would you describe the state of your physical health?**

- Very good health
- Good health
- Average health
- Poor health
- Very poor health
- I prefer not to answer

**Do you have some health issues that restrict your mobility?**

- No restrictions
- Some restrictions, but not very serious
- Heavy restrictions
- I prefer not to answer

**Time outdoors is important to my health**

- Strongly agree
- Agree
- Neither agree or disagree
- Somewhat disagree
- Disagree

**On average, how many hours do you spend per day outdoors during spring/summer?**

**On average, how many hours do you spend per day outdoors during fall/winter?**

**Your connection to Övre Vojmådalen**

**Please choose the most applicable option**

- I am a permanent resident
- I work here
- I am a seasonal resident
- I am a visitor

## Where I stay in Övre Vojmådalen

Where do you stay when you stay in the area? Whether you own a second home, or rent accommodation when you come to Övre Vojmådalen, please locate this place on the map.

Click on the green button below. An icon will appear. You can place this icon on the map. You can also drop the icon in the general area you stay when you come to the area. You can click, zoom and drag the map around using your mouse or touch screen. In the top-right corner of the map, there is a small box. If you click on this, you can switch between map layers to be displayed.

Where I stay

You can also write down the area you stay if you prefer

## Do you own a residence in Övre Vojmådalen?

- Yes, I own a second home
- I am considering to buy a second home here
- No, I rent accommodation when I visit

## For seasonal visitors, please check the following that apply:

- I visit mostly in the spring
- I visit mostly in the summer
- I visit mostly in the fall
- I visit mostly in the winter
- I visit throughout the year

## How many times per year do you visit?

## What I do in Övre Vojmådalen

We would like to ask about how you spend your time and where you use the local services in the area.

To select your location(s), click on one of the options below and place the icon on the map. Once you identify a place, specific questions will pop up where you will be asked to elaborate.

You can repeat this mapping multiple times, selecting different types of activities you do, or places where you spend time outdoors across different locations during the winter or summer.

As with the previous exercise, you can use the mouse or screen here to drag the map around, zoom in and out, and switch between different map layers to be displayed.

## Activities & places I go to in winter/spring

## Activities & places I go to in summer/fall

## Other comments

**Do you also work in Övre Vojmådalen?**

- Yes, I also work in the area
- No, I my stay in the area is not work-related at all
- 2 km

**Activities & places I go to in winter/spring (Pop-up Questions)**

**Which of the following activities do you do here?**

- Alpine skiing
- Cross country skiing
- Outdoor area lunching, fireplace / camping
- Snowmobiling
- Skating
- Hiking
- Fishing
- Enjoy nature
- Other

**What is your other activity and/or why is this important to you?**

How often do you go there?

- Several times a day
- Daily or almost daily
- Once a week or more
- A few times per month
- Once per month
- A few times a year
- Once a year or less

**How do you primarily get there?**

- I walk
- I bike
- I drive by car
- Other

**Do you use local services nearby, or are there any missing?**

**Activities & places I go to in summer/fall (Pop-up Questions)**

**What activities do you do here?**

- Fishing
- Hiking/go for walks
- Biking/mountain biking
- Outdoor area, lunching, fireplace / camping
- Enjoy nature
- Other

**What is your other activity and/or why is this important to you?**



KITTELFJÄLL

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**How often do you go there?**

- Several times a day
- Daily or almost daily
- Once a week or more
- A few times per month
- Once or twice per month
- A few times a year
- Once a year or less

**How do you primarily get there?**

- I walk
- I bike
- I drive by car
- Other

**Do you use local services nearby, or are there any missing?**

**Your five ideas for the future of Kittelfjäll**

Kittelfjäll is an important centre for Övre Vojmådalen. How would you like to make it an even better place to live, work, visit and enjoy - all year round?

Please share up to five development ideas you may have for Kittelfjäll and the areas nearby to serve as a source of inspiration.

In addition, you can also share five locations for where you could see new residences being constructed. Like the previous mapping exercises, you click on the button and place it on the map in the location of your choice. A specific set of questions will pop up and you will be asked a set of questions related to your idea.

Kittelfjäll development ideas

New residences?

**Are there areas you think are important to leave as it is?** Please draw one or two areas using the click-and-drag pointer below

- Draw the areas you want to protect

**Do you have any other comments about the future development of Kittelfjäll?**

**How optimistic are you about the future development of the area?**

Not optimistic -> Very optimistic

**What is your idea about?**

- Snowmobiling
- Cross country skiing
- Alpine skiing

- Bike trails
- Fishing areas
- Outdoor camping
- Playground
- Hiking
- Skating

**Tell us more about your idea:**

**If your idea is not on the list, add it here:**

**During which season is your idea more relevant?**

- Fall
- Winter
- Spring
- Summer

**If there is a local service need related to your idea, check any applicable option:**

- WC
- Local shop
- Restaurant
- Outdoor area amenities
- Areas/activities adapted to young children
- Benches and places to convene

## **New residences**

**What type of residence do you have in mind?**

- Second home (single unit)
- Second home (apartments)
- Permanent residence (single unit)
- Permanent residences (apartments)
- Other

**Please add any details about this idea**

New residences (Pop-up Questions)

**What type of residence do you have in mind?**

- Second home (single unit)
- Second home (apartments)
- Permanent residence (single unit)
- Permanent residences (apartments)
- Other

Please add any details about this idea

## **Previous participation**

**Before this, have you taken part in surveys or interactions that are related to local development in Vilhelmina?**

- Provided verbal or written feedback to the municipality
- Filed a complaint about a decision
- Participated in an online discussion about planning and development (e.g. social media groups, online discussion platforms)
- Participated in a resident society's/local organisation's actions or other actions striving to develop the municipality, area or local community
- Participated in local politics in a position of trust
- No, I have never participated in such surveys or processes before

**How do you believe the residents' opportunities to influence Vilhelmina should be developed?**

**How would you like to be informed about the local development?**

- Receiving mail in the post
- Via emails and newsletters
- On social media and various webpages
- To attend local meetings with other stakeholders

**Would you like to be more involved in the local development processes? If so, how?**

**Any other comments to the survey overall?**

**Thank you!**

Thank you very much for taking part in this survey and helping us to develop Övre Vojmådalen, Vilhelmina!

For more information about the NORDGREEN project and survey results, visit <https://nordregioprojects.org/nordgreen>.

For questions or general feedback, please contact: Diana Huynh, [diana.huynh@nordregio.org](mailto:diana.huynh@nordregio.org)



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