

THE DUVED MODEL - ENGLISH SUMMARY -



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PROJECT

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1 INTRODUCTION

The Duved model for local communities 2.0 (the Duved Model) is a research and innovation project focusing on sustainable rural development and governance, funded by the Vinnova programme for challenge-driven innovation (UDI)

The widening gap in living conditions between urban and rural areas is one of Sweden's most central challenges. This development has a direct disadvantageous impact on rural communities, in terms of public and private services, cultural offerings, work opportunities, transportation, housing, and the level of trust in the democratic social system. The project challenges deeply rooted organizational structures, such as legal frameworks and norms that hinder rural development and constitute obstacles to bridging the growing gaps in living conditions between urban and rural areas. The overarching goal is that the Duved model over time will contribute with circular structures and dynamic value chains that benefit both the countryside and the city.

Relying on the municipal planning and building process and with local influence in vital issues of housing, work, culture, food, digitalization, and energy systems, the Duved model will show how a local community can develop sustainably, which also paves the way for resilience and improved quality-of-life in cities. The innovative core of the Duved model is the new type of collaboration plan – governance through local collaboration – that the project aims to develop. The collaboration plan aims to describe how the local community can become more actively involved in development initiatives in the village and in the municipal planning process.



DUVED WILL LEAD THE WAY FOR FUTURE RURAL AND URBAN DEVELOPMENT

On the local level, the goal of the project is for Duved to develop into a rural town with an increased degree of self-sufficiency and an innovation engine that paves the way for how local communities can serve as role models for sustainable communities. Duved has, thanks to its small size of around 1800 inhabitants - with the Duved village association and local network Duved Framtid AB as a driving force - the possibility to become a prototype as well as to lead the way for future rural and urban development in Sweden. Rural investments through innovation are the future's large and untapped possibility. Thus, rural areas are starting points for innovative sustainable societies based on the visions, experiences, and ideas of local actors.

Duved is, unlike the neighboring village Åre, not a tourist resort. Therefore, initiatives that are implemented in Duved will more likely generate local innovations for the Duved habitants, i.e., solutions with regards to housing, work, food supply, social service, cultural activities, circular economy, energy systems and direct democracy - all which together make up the Duved model. In addition, the local innovative solutions will work as prototypes for further development as well as national and global upscaling.



2 PARTNERS

The Duved model has 18 project partners, these are: KTH Royal institute of Technology – School of Architecture in Stockholm, Linköping university – Centre for Local Government Studies, the Swedish National Board of Housing, Building and Planning, Region Jämtland Härjedalen, the organization Public Housing Sweden, the municipality Åre, the multi-disciplinary consultancy firm Tyréns, the local network Duved Framtid AB (11 organizations), and an advisory board consisting of the Swedish Agency for Economic and Regional Growth, the Swedish Association of Local Authorities and Regions, the state-owned research institute RISE, The Swedish Centre for Innovation and Quality in the Built Environment, SmåKom – a national network for small municipalities in Sweden, the Housing company Uppsalahem and the municipality of Uppsala, Laxå and Lindesberg.

3 WORK PACKAGES

The project comprises five work packages within which both research and development take place: governance through local collaboration, housing, food & energy supply, livability, and digitalization.

In the Duved model, research and development takes place within five work packages:

WP0 Governance through local collaboration – Citizen involvement and collaboration between the municipality and local-, regional-, and national stakeholders



WP1 Housing – Affordable housing, sustainable and innovative residential buildings

WP2 Food & energy supply – Circular food production, locally grown food, sustainable energy

WP3 Livability – Attractive public spaces and local cultural values

WP4 Digitalization – Customized digital solutions and improved flows

The Duved model's innovative core is the new type of collaboration plan – Governance through local collaboration (WP0) – that is being developed within the project. The aim of the collaboration plan is to describe how the local community can become more actively involved in development initiatives in the village and in the municipal planning process.

Central to the projects collaboration plan is an innovative form of network management with an organization that challenges the bureaucratic systems of conventional planning processes. The local network Duved Framtid AB, which partners represent the municipality of Åre, local businesses, and civil society & villagers, provides a platform for horizontal local governance. This local network forms the basis for innovative initiatives in Duved regarding housing, work, culture, food, digitalization, and energy systems.

4 ORGANIZATION

The project has appointed a steering committee with representatives from the municipality of Åre (public officials and politicians), KTH, Tyréns AB and Duved Framtid AB. The steering committee assemble every three weeks, and its mission is to lead the distribution of work between the project parts as well as to ensure authorization of matters relating to spatial planning and initiatives focused on innovation-driven local development and sustainability. The steering committee should be informed of and approve all game-changing project decisions.

The project manager, Björn Hellström – KTH, informs the steering committee and leads the project implementation within the framework of project directives, the project plan and in accordance with the goal and work package description. He ensures that the organization and working methods are appropriate, documented and clearly specified. Additionally, the project manager keeps the municipality of Åre's political leadership continuously informed about the project situation.

The project has appointed a process management team consisting of representatives from the municipality of Åre, KTH, Tyréns AB, Årehus AB, Duved Byförening and Eau & Gaz AB. The process management team is responsible for formulating project goals, directing the project and coordinating the work within/between the work packages, and for providing decision support to the steering committee. The process management meets regularly, about every two weeks, and its chair is Björn Hellström (KTH). A representative of the process management is also represented in the respective work packages.

The project work is carried out in five working groups based on the five work packages. In each work package there is a work package leader and a representative from the process management. This aims to facilitate collaboration between the work packages.

5 SCALES

The Duved model has a holistic perspective on societal development – where different parts must work together to make an impact. To reach the long-term goals, the project needs to influence the deeply rooted systems of regulations and norms that are barriers for meeting the societal challenge. The project therefor operates on two different scales: micro and macro.

MICRO LEVEL

The micro level involves clarifying local challenges and people's needs in relation to place-specific issues, such as local governance, housing, food & energy supply, livability, and

digitalization. On this level it is possible to develop solutions that meets people's needs, on-site, *with* and *for* those effected.

MACRO LEVEL

The macro level concerns creating a system for understanding the driving forces behind and the barriers to sustainable rural development. At the macro level the focus is on systemic change – to reform entrenched regulations and norms through policy-driven processes – to enable solutions that will benefit the sustainable development of local communities.



6 FUNDING

VINNOVA'S REQUIREMENTS

To receive funding, Vinnova requires that the project works explicitly with local development and implementation through cross-border collaboration between academics, politicians, officials, entrepreneurs, cultural workers, civil society, citizens, etc. This implies that implementation through innovation on-site is central, as is the aim of responding to societal challenges at the system level and reaching out on a large scale via national upscaling and dissemination.

STEP 1 FUNDING

The project was funded by Vinnova's Challenge-Driven Innovation (UDI) Step 1 program. The project received the maximum amount of financing from Vinnova – SEK 500,000. The main goal was to further develop the project idea, and to consolidate the project network.

Project period: April 2018 – December 2018.

STEP 2 FUNDING

The project received the maximum amount of financing from Vinnova – SEK 10 million, which was supplemented by co-financing from the project's partners of SEK 10 million, which gives a total project budget of SEK 20 million.

Project period: September 2020 – September 2022.

STEP 3 FUNDING - FUTURE APPLICATION

Vinnova's UDI program also includes a third step – 'implementation – where the results from step two will be further tested and implemented on a larger scale over the course of two years. Step three also includes laying the foundation for a business / value model for how distribution and upscaling should take place for further implementation.

The maximum amount of support from Vinnova is SEK 20 million plus co-financing of SEK 30 million, which gives a total project budget of SEK 50 million.

Preliminary project period: May 2023 – May 2025.

EXPECTED RESULTS STEP 3

In step three the project will involve several Swedish municipalities with a large geographic spread, as well as many authorities and organizations with the aim of reaching out nationally and in the long term globally, through an internationalization strategy. The main focus of the project in step three is promoting local community development and sustainable well-being through collaboration. Community networks are needed to handle the specific and local goals, and *what*-questions from a bottom-up perspective, while supportive networks are needed to facilitate the implementation and the *how* from a top-down perspective.

RESULTS 5 YEARS AFTER STEP 3

In the long run (five years after finishing step three), potential system changes will be (1) challenging the urban norm in creating interaction between rural and urban areas, (2) creating local forms of democracy through collaboration and interactive governance with locally engaged networks for citizen influence over societal development and (3) increasing robustness and resilience through influencing the basic conditions of the local community for local food and energy production, employment, service, culture, good health and living environment. These system changes will have potential effects on Agenda 2030 goals 10 and 11, local democracy, new forms of collaboration, sustainable and affordable housing, start-up of associations, companies and cooperatives, employment, self-sufficient circular food production systems, public, social and commercial services, local smart heating and energy systems, art and culture as creative and constructive power and migration-integration as a local resource.