

FINLAND'S INITIATIVE TO THE ARCTIC COUNCIL

**PRODUCT DEVELOPMENT AND PROCESSING IN
SUSTAINABLE REINDEER HUSBANDRY 2002-2005**

Co-operative project of the Arctic Council and the Northern Forum

5.5.2002

PRODUCT DEVELOPMENT AND PROCESSING IN SUSTAINABLE REINDEER HUSBANDRY

0. SUMMARY

The project puts into effect a part of the program for the *Finnish Chair of the Arctic Council 2000-2002*. The part in question reads: "Finland contributes to the development of basic industries in the Arctic by strengthening inter alia, sustainable reindeer management, related product development and processing as well as training in this field."

"Product Development and Processing in Sustainable Reindeer Husbandry 2002-2005" project is a co-operative project of the *Arctic Council* and the *Northern Forum*. This project carries on the *Northern Forum* project "Reindeer Management" which has carried out the same aims in several reindeer herding areas in Finland and Russia since 1997.

The project complements "Sustainable Reindeer Husbandry" project approved by the *Arctic Council* as a project under the Sustainable Development Programme.

The aims of the project

The main aim of the project is to preserve and develop reindeer husbandry. Other aims are:

- to develop and improve the reindeer husbandry of each region in such a manner that pastures are used in the most effective and ecologically sustained way to improve the social conditions of the indigenous peoples of the North.
- to ensure sustainable reindeer husbandry by related product development and further processing of reindeer products through utilizing especially education and research connected to it.

Partial aims

- to use and utilize both traditional knowledge and the latest scientific knowledge in estimating the number of reindeer;
- to educate and guide the population of the regions into the new supplementary industries supporting reindeer husbandry;
- to increase the technical knowledge and to create technical preconditions for further processing of the products by adjusting to market economy and by maintaining reindeer as the prime natural product, as well as bringing all the by-products of reindeer in utilization.

Geographical emphasis is on Russia but all countries where reindeer herding is practiced can participate in the project. The project supports the aims of a resolution No. 564 "Economic and Social Development of the Small Indigenous Peoples of the North up to the Year 2011", Federal Target Program, approved by the Government of the Russian Federation on the 27th of June in 2001, as well as program of action approved by the *Reindeer Herders' Union of Russia* in Salekhard on the 12th of March in 2002.

Sections of the project

1. Training in self-supervising of slaughterhouses
2. Slaughtering and meat handling of reindeer
3. Uniform education in reindeer husbandry for the whole reindeer herding area
4. Tourism as a supplementary industry for reindeer husbandry
5. By-products of reindeer
6. Training in marketing and business management
7. Development seminars, excursion and negotiation trips

Expected results

With the help of this project, the living conditions of the peoples of the North improve and the respect to the reindeer as genuine natural product increases in the whole reindeer herding area. More jobs are created amidst further processing as well as amongst other secondary occupations connected with reindeer. The reindeer industry remains vital and the northern culture connected to it remains respected and the way of life worth pursuing. In the long term, the further processing of reindeer meat and the other related product development will meet approximately the same standards all over the reindeer herding area.

Organizers of the project and interest groups

Finland is 'the leading partner' of the project. The main organization responsible is the *Educational Center of Sami Area*. The *Finnish Game and Fisheries Research Institute's Reindeer Research Unit in Kaamanen* supports the project in the research part. As the specialist organizations and the interest groups in Finland are among others the *Reindeer Herders' Association in Finland*, the *Sami Reindeer Herders' Association in Finland* and the company *Kometos Oy*. The *State Provincial Office of Lapland* functions as the contact organization to the *Northern Forum*.

In **Russia**, the *Reindeer Herders' Union of Russia* (RHUR) is the project coordinator. The regional administrations in the reindeer herding area have a central part in the project. Several educational institutions that provide teaching in reindeer husbandry are involved in the realization of the project.

In **Sweden**, the practical organizer is *Polarica Ab* and the coordinator is the *County Administration of Norrbotten*. The specialist help in treatment of reindeer skin is provided also by the company *Kero Ab* from Pajala. In the **USA**, the practical co-operating partner is the *Kawerak Reindeer Herders' Association* in Alaska. The coordinator is the State of Alaska. In **Norway**, a handicraft association *Duojarid dallu* participates in the section of developing reindeer by-products.

The Association of World Reindeer Herders (WRH) is a central co-operating partner in the project. Other countries as well as organizations and companies are also welcome to participate.

Financing

The total costs over the period of 2002-2005 are 1.301.000 euros. The main financing comes from Finnish-Russian Neighboring Area Co-operation funds, from the *Northern Forum*, the *European Union* and the *Educational Center of Sami Area* as well as from the Russian Federation and Russian regional administrations.

1. BACKGROUND

The program for the Finnish Chair of the Arctic Council 2000-2002 includes the following: Finland contributes to the development of basic industries in the Arctic by strengthening, inter alia, sustainable reindeer management, related product development and processing as well as training in this field.

The project focuses on carrying out the goal set for it in the program, especially as concerning the reindeer meat and the by-products of reindeer, as well as supplementary tourism industry.

Reindeer herding has concentrated on the Arctic regions. There are nearly four million domesticated reindeer in the Arctic regions. Of this amount approximately 75% are in Russia and approximately 20% in the Nordic countries. The number of reindeer cannot be essentially increased without the pastures suffering. Therefore the development of reindeer products is in key position in order to enhance the profitability of sustainable reindeer management.

Reindeer herding is chiefly the source of livelihood of the indigenous peoples of the North. Over the last decade, the reindeer herding has declined for various reasons, especially in Russia. Reindeer herding is deeply bound to the culture of the region, and in the majority of cases it is a basis of whole life. Due to the decline of reindeer herding the life of the indigenous peoples of the North has become even harder than before. Furthest, the reindeer herding has developed in the Nordic countries.

2. EXISTING INTERNATIONAL CO-OPERATION

2.1. “Sustainable Reindeer Husbandry” project

The project was approved by *the Arctic Council* as a project under the Sustainable Development Programme at the Ministerial meeting in Barrow, Alaska 2000.

The aim of the project is to assess circumpolar reindeer herding and husbandry in relation to economic and social/cultural sustainability. This will be done by carrying out a thematic survey and assessment of reindeer husbandry in the Arctic (Norway, Sweden, Finland, and Russia).

The project will to a great extent use socioeconomic data which already is available in the different countries through public reports, annual reindeer herding reports, statistics etc. This data will be complemented with the most recent available data from national reindeer herding authorities, herding organizations and through interview and fieldwork among reindeer herders.

The final report, which will be presented to the Ministerial meeting in Finland in October 2002, should reflect the main challenges for a sustainable development of the reindeer herding communities and give recommendation for action to the industry, national authorities and the Arctic Council.

2.2. “Reindeer Management” project

The project of the *Northern Forum* began in 1997. The general aim of the project is to utilize the experience acquired within reindeer husbandry in Nordic countries in developing the educational methods and research results in Russian reindeer husbandry. This is done to secure economically profitable reindeer husbandry while preserving and strengthening the culture of the reindeer herding peoples.

The leading region of the project is Lapland. The main organizers are the *Educational Center of Sami Area* and the *Game and Fisheries Research Institute's Reindeer Research Unit*. The specialist in meat handling equipment is the Finnish *Kometos Oy*. The *State Provincial Office of Lapland* is the coordinator of the projects between the Arctic co-operating organizations and the regions.

Since the beginning, the most active region has been the Sakha Republic (Yakutia) in Russia. The regions that have joined in later are Nenets Autonomous Okrug, Yamalo-Nenets Autonomous Okrug, the Komi Republic and Khanty-Mansiysk Autonomous Okrug. Also Kamchatka, Koryak and Chukotka autonomous Okrugs are coming along actively. The Murmansk Region has been connected to the project through various Finnish-Russian Neighboring Area projects of the *Educational Center of Sami Area*. The *Reindeer Herders' Union of Russia* (RHUR) supports the project actively.

Within the framework of the project, over 20 specialist delegations have been exchanged between Lapland and the before-mentioned Russian regions. In the *Educational Center of Sami Area* training courses participated approximately 40 veterinarians and reindeer herders. The training has focused on meat handling and further processing. The courses have included practical training in the training slaughterhouse. The *Reindeer Research Unit* has supported the training concerning the research.

The *Educational Center of Sami Area* has started together with the educational institutions providing education in reindeer husbandry in Chersky, Sakha Republic, in Salekhard, Yamalo-Nenets Autonomous Okrug, in Inta, Komi Republic and in Lovozero in Murmansk Region preparing a curriculum in reindeer husbandry for the whole reindeer herding area. In some Russian regions, an assessment of health condition of reindeer has been made by the means of blood samples.

The project has been closely connected with the Finnish-Russian Neighboring Area co-operation. This has enabled the financing of the project. It has also a close co-operation with the teams of with Komi Republic and Nenets and Yamalo-Nenets autonomous regions that are established under the Russian-Finnish Intergovernmental Commission on Trade and Economic Co-operation.

The project of the *Northern Forum* has already for years carried out the same goals as this starting project in wide areas in Russia. The project of the *Northern Forum* functions as a foundation for developing a co-operation between the *Arctic Council* and the *Northern Forum*.

Finland has co-operated a lot with several reindeer states in different ways. Especially in the field of education in reindeer husbandry, it has made strong progress over the last years.

2.3. Projects of the Educational Center of Sami Area

The *Educational Center of Sami Area*, located in Inari, Lapland, has a development unit of nature-based production. Dozens of persons in the field of reindeer husbandry from different localities of Russia and from Norway have been in training yearly in the unit. In the vicinity of the estate there are the *Finnish Game and Fisheries Research Institute's Reindeer Research Unit*, the only one in the Nordic Countries, and the *Finnish Reindeer Herders' Association's* experimental reindeer farm. All three of the above-mentioned organizations work in close co-operation, thus providing an excellent setting for various reindeer husbandry activities. Finnish *Kometos Oy*, which manufactures slaughterhouses and meat handling equipment and plants, co-operates in the fields of education and research.

Since 1991, the *Educational Center of Sami Area* has co-operated in reindeer husbandry with the Vocational School *PU 26* from Lovozero village, Murmansk Region. During this co-operation, a Vocational School *PU 25* in Jona Village, Kovdor Region was founded. The school in Jona offers, among other things, education in reindeer husbandry. In Jona, a project for reindeer husbandry and other nature-based production education that has been financed by Finnish-Russian Neighboring Area Co-operation funds is also in progress. The aim of this project is to educate approximately 30 students who would graduate both with Finnish and Russian qualifications in Reindeer Husbandry and Nature-based Production. During the project, the experience in adjusting the curriculum to meet both Finnish and Russian requirements has been looked for. The 5-year project will end in 2002.

In the frames of the Russian-Finnish Intergovernmental Commission on trade and Economic Co-operation there has been co-operation in different regions in Russia. Teams for developing reindeer husbandry have been established in some regions. Based on the agreements, the *Educational Center of Sami Area* has realized different educational and development projects in different regions. The projects have mainly been related to educating the personnel and veterinarians of slaughterhouses.

2.4. "Development of the Reindeer Husbandry in the Murmansk Region and Russia's Domestic Market for Reindeer Meat and By-products" project

The *Finnish Reindeer Herders' Association* has in progress an aforementioned project. It has five sections: marketing, by-products, reindeer husbandry, meat handling and administrative development. The general aims of the project are to maintain reindeer husbandry in the Murmansk region, to ensure the production of reindeer meat and to develop foodstuff production based on reindeer. The project has helped in establishing a reindeer meat handling and further processing unit in co-operative '*Tundra*' in Lovozero village, Murmansk Region. The project has contained education in this field. The *Educational Center of Sami Area* has been mainly responsible for the teaching.

The **Swedish** organizers have made the following two **TACIS Cross-Border Co-operation Small Project Facility** project applications regarding development of reindeer husbandry in Russia in the cross-border regions.

2.5. "Sustain-Net" project

The aim of the project is to create a cross-border sustainable co-operation network (Sustain-Net) between Russian/Swedish local/regional authorities.

The first and foremost objective of such a cross-border co-operation network is to assist with the establishment of an effective co-operation between the Murmansk Regional Administration and SMEs (Small and Medium Sized Enterprises) in the Murmansk Region. This will, consequently, foster sustainable economic development on a regional and national level and support SMEs located in the Lovozero District in the Murmansk Region in their sustainable development, through transferring know-how on successful business management from Swedish to Russian SMEs.

Further, the project will educate trainers and trainees of the Regional Administration and Russian SMEs in up-to-date western methods of administration and help Russian SMEs in the Murmansk region to implement the best European practices of business management.

The project is primarily based on the existing co-operation network already established between Swedish and Finnish local/ regional authorities over several years of continuous common work and exchange of experience within many fields of business, social and economical life. This project will continue and expand this international co-operation by strengthening the already existing interregional co-operation and by establishing new contacts.

2.6. “Modernization of Reindeer Herding in Lovozero Region” project

The aim of the project is development of cross-border co-operation between local/ regional authorities and companies. Development of reindeer herding in Lovozero as a bases for sustainable development of SMEs/ companies and the main factor of survival of the inhabitants in the Lovozero region.

The overall objective of the project is to create cross-border co-operation network between local/ regional Russian/ Swedish authorities and SMEs/ companies, which will be the bases for sustainable development of the SMEs/ companies in the Lovozero region.

The project activities will create motivation between younger people to develop reindeer herding by using European up-to-date modern technologies within reindeer herding. Learning the new things and studying the Western up-to-date technologies used at the production of high quality raw material they will get a motivation to develop their skills staying to work at SMEs/ companies in Lovozero.

During the project there will be evaluated few trainees from local companies and the Vocational School *PU 26*, which will participate in the theoretical and practical training activities. The objective of the training activities is to prepare the production leaders for the Lovozero's SMEs/ companies, which will be able to organize the work process by effective way.

Furthermore, Swedish *Kero Ab* has a scheme for making Interreg III A –Kolarctic project application in co-operation with the *Educational Center of Sami Area* regarding reindeer skin processing in the Kola Region. The project is organized together with *Lovozero Regional Administration, Norrfrys Lovozero*, co-operative *Tundra* and the vocational school *PU26*, all from Lovozero region.

3. DEVELOPMENT PROGRAMME OF RUSSIAN REINDEER HUSBANDRY

On the 27th of June in 2001, the Government of Russian Federation has approved a resolution No. 564 “*Economic and Social Development of the Small Indigenous Peoples of the North up to the Year 2011*”, *Federal Target Program*.

The program emphasizes reindeer herding as a vital necessity for the existence of economy and culture of the small indigenous peoples of the North. In Russia, it is almost exclusively them who practice the reindeer herding. Extracts from the program:

Problem

One of the most urgent economic problems is the development of traditional economies, in the first place reindeer herding, hunting and trapping, fishing, etc.

The solution to reindeer herding reinstatement lies in the restoration of the livestock, organization of large scale processing and increase of meat production as well as in the use of raw antlers and ferment-endocrine products...

Main objectives of the Program

To bolster investments and entrepreneurship, to restore trade, financial and economic ties and to integrate these peoples into regional economy

To develop resources and technologies of the traditional economies and processing sectors, to ensure transition to an innovative way of development

To improve consumer qualities of the traditional products and to increase production through technical and technological modernization of their traditional economies and processing facilities and their products.

Major activities

To promote reindeer herding, traditional economies, crafts and arts of the small indigenous peoples of the North; to ensure comprehensive processing of their traditional products.

To construct 164 slaughterhouses for reindeer and other domestic animals.

To construct small capacity processing facilities, including shops to reindeer meat.

To construct cold stores and to acquire refrigerating and freezing installations for more effective use of local raw products.

To provide for a set of measures to promote and develop tourism in the territories of the indigenous peoples and of their traditional economies, especially in its most promising forms.

To carry out activities aimed at the development of the associated and new processing capacities to process products of the traditional economies by constructing fur-skins and leather dressing shops, sewing workshops, arts and handicraft shops and workshops.

4. AIMS OF THE PROJECT

The main aim of the project is to preserve and develop reindeer husbandry.

The other aims of the project are to develop and improve the reindeer husbandry of each region in such a manner that pastures are used in the most effective and ecologically sustained way to improve the social conditions of the indigenous peoples of the North.

Ensuring sustainable reindeer husbandry by related product development and further processing of reindeer products through utilizing especially education and research connected to it.

Partial aims

- to use and utilize both traditional knowledge and the latest scientific knowledge in estimating the number of reindeer;
- to educate and guide the population of the regions into the new supplementary industries supporting reindeer husbandry;
- to increase the technical knowledge and to create technical preconditions for further processing of the products by adjusting to market economy and by maintaining reindeer as the prime natural product, as well as bringing all the by-products of reindeer in utilization.

Geographical emphasis is on Russia but all countries where reindeer herding is practiced can participate in the project. The project supports the aims of aforementioned resolution by Russian Federation as well as program of action approved by the *Reindeer Herders' Union of Russia* in Salekhard on the 12th of March in 2002.

5. SECTIONS OF THE PROJECT

5.1. Training in self-supervising of slaughterhouses

The aim of the training in self-supervising is to give education to the Russian veterinarians in self-supervising as well as to help them to draw up a functional self-supervising plan for their slaughterhouses. From 10 to 20 veterinarians from different localities of Russian reindeer herding districts are admitted to the training yearly. Training will take place in Finnish Lapland for two weeks and in Russia for one week.

5.2. Slaughtering and meat handling of reindeer

The aim of this section is to educate slaughterers that master the Western regulations of the slaughtering of reindeer. They also have to be able to act on their own in all the tasks connected with slaughtering in slaughterhouse plants. The aim of the training is also to ensure effective, good-quality and hygienic slaughtering of reindeer in order to produce safe and high-quality foodstuffs.

5.3. Uniform education in reindeer husbandry for the whole reindeer herding area

Drafting the curriculum

The aim of this section is to create new curriculum for reindeer husbandry that would be applicable for all reindeer herding areas. In the curriculum, the knowledge based on the experience of indigenous peoples is taken into account, and is made adaptable to the regional needs. The curriculum is based on independent profession with essential basis in the sustainable use of nature. In teaching, modern technology is utilized to improve the living conditions of the peoples that make their living by herding reindeer. In the contents of the curriculum, significant part is given to the own culture of each region.

5.4. Tourism as a supplementary industry in reindeer husbandry

The aim is to create a basis of understanding tourism as one of the possibilities for supplementary industry in reindeer husbandry. The aim is to create ready-made tourism activities packages connected with reindeer husbandry in order to improve possibilities of making a living amongst those who work in the reindeer herding. The first phase would take place in Lovozero, Murmansk region and in Sakha Republic.

5.5. By-products of reindeer

Over the period of years of 2003-2005, the aim is to organize different training opportunities on the different localities of reindeer herding area relating to the by-products of reindeer – skins, antlers, bones and so forth - to be processed further for high-quality products. In connection with the training opportunities, the aim is to develop new co-operating projects around different products.

The first training seminar regarding the by-products of reindeer is planned to take place during the winter 2002-2003 in the *College of Ethnic Traditions, Technology and Industrial Product Design* in Yakutsk, Sakha Republic. *Sami Duodji*, a handicraft association from Finland and *Duojarid dallu* from Nesseby, Norway will also participate in the co-operation.

5.6. Training in marketing and business management

Lovozero Business Center is established together with the *Administration of Employment of Murmansk Region, Employment and Economic Development Center for Lapland* and the *Business Development Center Rovaniemi*. The *Lovozero Business Center* offers free guidance for the founders of enterprises as well as for the already existing businessmen and women.

The business center is part of the business network in Murmansk, which consists of business centers in eight localities. *Lovozero Business Center* offers information on local businesses also to the international organizations and companies. The work in *Lovozero Business Center* focuses on the processing of the reindeer by-products.

Connected with entrepreneurship and marketing, there are activities in the projects mentioned in the section 2, in the Swedish project "Sustain-net by the City Council of Haparanda" as well as in the projects mentioned in sections 5.1 and 5.2.

5.7. Development seminars, excursion and negotiation trips

A yearly development and feedback seminar is organized. In connection with the seminar, a meeting for the Project Committee is also held. The first seminar will be held in Moscow in autumn 2002.

To the Russian regions that don't have close contacts yet – for instance Evenk, Taimyr, Koryak and Chukotka autonomous Okrugs - development seminars, excursion and negotiation trips are organized.

6. EXPECTED RESULTS

With the help of this project, the living conditions of the peoples of the North improve and the respect to the reindeer as genuine natural product increases in the whole reindeer herding area. More jobs are created amidst further processing as well as amongst other secondary occupations connected with reindeer. The reindeer industry remains vital and the northern culture connected to it remains respected and the way of life worth pursuing.

With this project, the further processing of reindeer meat and the other related product development will meet approximately the same standards all over the reindeer herding area.

7. ORGANIZERS OF THE PROJECT AND INTEREST GROUPS

The project is a co-operative project between the *Arctic Council* and the *Northern Forum*.

Finland is the leading partner of the project. The main organization responsible is the *Educational Center of Sami Area*. The *Finnish Game and Fisheries Research Institute's Reindeer Research Unit* supports the project in the research part. As the specialist organizations and the interest groups in Finland are among others the *Reindeer Herders' Association in Finland*, the *Sami Reindeer Herders' Association in Finland* and *Kometos Oy*. The *State Provincial Office of Lapland* functions as the contact organization to the *Northern Forum*.

In **Russia**, the *Reindeer Herders' Union of Russia* (RHUR) is the project coordinator. The regional administrations in the reindeer herding area have a central part in the project. The educational institutions that provide teaching in reindeer husbandry are involved in the realization of the project. These educational institutions include the Vocational School *PU 26* in Lovozero, Murmansk Region, the *Veterinary Medicine teknikum* in Salekhard, Jamalo-Nenets Autonomous Okrug, and the *College of Northern Peoples* in Chersky, Sakha Republic. The *College of Ethnic Traditions, Technology and Industrial Product Design* in Yakutsk, Sakha Republic is a co-operating partner in developing the handicrafts made of reindeer. The *Yakut State Agricultural Academy* works with all educational and development issues.

In **Sweden**, the practical organizer is *Polarica Ab* and the coordinator is the *County Administrative Board of Norrbotten*. The specialist help in treatment of reindeer skin is provided also by *Kero Ab* from Pajala.

In the **USA**, the practical co-operating partner is the *Kawerak Reindeer Herders' Association* in Alaska. The coordinator is the State of Alaska.

In **Norway**, a handicraft association *Duojarid dallu* participates in the section of developing reindeer by-products.

The Association of World Reindeer Herders (WRH) is a central co-operating partner in the project. It was founded March 2, 1997 in Nadym, Russia. The founders were representatives of reindeer husbandry in Russia, Sweden, Finland, China and Norway. Reindeer husbandry in Alaska and in Mongolia has subsequently joined the Association.

The 1st World Reindeer Herders' Congress in Nadym accepted the invitation to hold the 2nd World Reindeer Herders' Congress in 2001 in Inari, Finland. WRH organized together with the *Sami Reindeer Herders' Association in Finland*, the *Reindeer Herders' Association in Finland* and the *Educational Center of Sami Area* the 2nd World Reindeer Herders' Congress in June 18-23, 2001. The theme of the Congress was "Sustainable Reindeer Husbandry". The congress report will be published in 2002.

The Association's main office and the secretariat is located in Tromsø, Norway. It has been given observer membership status in the *Arctic Council*. WRH will emphasize the promotion of the interests of reindeer husbandry through co-operation with the *Arctic Council*. This will be the main issue of WRH.

8. RELATED PROJECTS

In addition to the projects mentioned in section 2, this project is connected, among other projects, with the following projects.

Development of the Reindeer Husbandry in the Murmansk Region, phase 2

The general aims of the project are to help partly to maintain and further develop reindeer husbandry in Murmansk region and to develop production based on reindeer throughout the chain from the primary sector to the consumer. The project is carried out by the Neighboring Area funds from the *Ministry of Agriculture and Forestry* and the main organization responsible is the *Reindeer Herders' Association in Finland*. The project has three sections:

- The handling and further processing of reindeer meat and the logistics and marketing
- The reindeer husbandry and its management
- By-products

The project supports the co-operative project of the *Arctic Council* and the *Northern Forum* "Product Development and Processing in Sustainable Reindeer Husbandry 2002-2005".

Caribou/Reindeer Grazing Systems by the International Arctic Science Committee.

The objective of the project is "To provide for the comparability of previous, current and newly established research programs that focus on caribou/reindeer grazing systems in Alaska, Canada, Russia, Greenland and the Nordic countries, and to facilitate exchange of information, ideas, research results, and scientists between projects. To facilitate integrative planning for future research on arctic grazing systems, with primary emphasis on the human, economic and social dependencies on them."

Renman – The Challenges of Modernity for Reindeer Management: Integration and Sustainable Development in Europe's Subarctic and Boreal Regions. The project" addresses fundamental questions regarding the future sustainable utilization of reindeer in the subarctic/subalpine and boreal regions of Europe in order to enhance the quality of life of local human populations and the appropriate management of living resources.

Oulu Regional Institute of Occupational Health is starting a project '**Development of work and promoting work ability in reindeer herding**' during the year 2002. The aim of the project is to support functional prerequisites of the Northern region reindeer herding industry taking into consideration long traditions and social changes. The project aims at interaction with the neighboring countries where partly the same problems occur in reindeer herding as in Finland. The *Educational Center of Sami Area* is a co-operating partner in the project.

9. FOLLOW-UP

For the follow-up and guidance of the project, an international Project Committee will be established. The committee consists of representatives of the organizations with the main responsibility as well as of representatives of the most important co-operating partners.

10. BUDGET 2002-2005

Costs

Self-supervising of the reindeer slaughterhouses	64 000 €
Slaughtering and meat handling of reindeer	160 000 €
Uniform education in reindeer husbandry for the whole reindeer herding area - planning the curriculum	30 000 €
Tourism as supplementary industry for reindeer husbandry	55 000€
By-products of reindeer	98 000 €
Training in marketing and business management Lovozero Business Center	60 000 €
Development seminars, preparations and negotiations	92 000 €
Coordinator from 2003	100 000 €

	659 000

Financing

Finnish-Russian Neighboring Area Co-operation	200 000 €
The Northern Forum	236 000 €
The Educational Center of Sami Area	203 000 €
Actors in the Murmansk Region	20 000 €

	659 000 €
In addition, it is estimated that Russia builds at least two reindeer slaughterhouses and meat handling plants per year	10 000 000 €