



## ANNEX 4.3: Integrated Project Design / Project Concept

**Applicant:** VET school electrotechnical, Hlavná 1400/1 059 51 Poprad - Matejovce

**Partners:**

Whirlpool spol. s.r.o Poprad, Tatramat-ohrievače vody s.r.o Poprad, Tatravagónka a.s Poprad, VSE a. s. Košice, MEZ –elektromotory Kežmarok, Schule s.r.o Poprad, Zastrova a.s Spišská Stará Ves

**Contact person:** Ing. Anna Lorencovičová , 0903 907 637, riaditel@sosematej.sk

### 1. Basic information about the integrated project

**Integrated project name:** [Regional centre of education for electrotechnical professions](#)

**Sector:** INDUSTRY – electrotechnical industry, energetic

**Subregion:** POPRAD, Poprad district, city Poprad, Hlavná 1400/1, Poprad – Matejovce, Prešov self-governing region



## 2. Intent and objectives of the integrated project

### Intent, main objective:

The main aim is to build a new learning center as a modern future-oriented workplace in electrical engineering, automation and engineering with a view to increase interest in the electrotechnical industry and related areas.

### Specific objectives of the integrated project:

- creating conditions for teaching new fields of study/new study programs
- bringing work-based learning closer to companies' requirements
- building a material - technical base for presentations in primary schools
- strengthening pupils' interest in technical disciplines
- providing work-based learning in the dual education system.

## 3. A brief description of the integrated project

### Baseline situation and justification of the need to implement the integrated project:

Electrotechnical VET School has been active in the labor market for almost 50 years. Nowadays, the school is profiled in electrical engineering, has very good material and technical conditions as well as staff for the provision of education in areas of electrical engineering, mechatronics, and from engineering fields of study programmer for machine tool and welding machines and equipment. Since 2014, the school has the Center for Vocational Education for Electrical Engineering. The development of electrical engineering, automation, and control systems goes forward very fast. As far as theoretical training is concerned, pedagogues are trying to keep up the trends, but with ensuring work-based learning, the situation is more difficult. The original but unsatisfactory premises of the original factory need to be changed and adapted to the new operational requirements. There is a need for new technologies and more modern facilities to be delivered to school so that students practice on the facilities they meet in their jobs after graduation. Development has shown that cooperation between companies and schools is inevitable and employers point to a lack of specialist workers in the manufacturing sector. This is the reason why it is necessary to reach pupils in primary schools, increase their interest in technical departments and this is possible only through advertising and marketing, whether done by schools or employers. VET school electrotechnical is located in the industrial park in Poprad - Matejovce. There are a number of companies in the Poprad and Kezmarok region that can cooperate with the school in preparing pupils

in the dual education system. In this way, the topics for which employers do not have the conditions could be taught by school and some parts of the education program could be taught by professionals from companies at school premises. School is an open system, can be helpful in the preparation of well-qualified future employees or in supplementing professional knowledge of employees and other clients through accredited lifelong learning courses.

#### Expected results and assets of the integrated project:

The proposed project is in compliance with strategic and conceptual material on a regional and national level, such as RIS 3 – Industry of 21st century /appropriate domain and product line/.

The envisaged long-term benefits of the proposed project are:

- aligning vocational education and training with the requirements and needs of employers
- after the introduction of new curricula (oriented towards the introduction of state-of-the-art production line control systems, automation of welding processes, process quality and possibly e-mobility) - the preparation of qualified professionals

The planned project results are:

- involving schools and businesses in dual learning
- Provision of lifelong guidance and lifelong learning services (retraining) for selected professions
- a training center that will enable companies to prepare future employees in modern workshops with modern technology
- presentation center for primary school pupils

#### **Overview of the individual/partial projects of the integrated project**

The name of a partial project	Source of funds / OP + other resources	Amount of expected sum requested	Project orientation, main activities expected results
<b>Establishment of a common</b>	IROP + OP HR + OPR&I	2 350 000 EUR (capital and non-capital)	A project aimed at building a cutting-

<b>workplace for work-based learning for electrotechnics, mechatronics and engineering (Training centre – TC)</b>		expenditures)	edge workplace for the electrotechnical profession, including a training center. <u>Main Activities:</u> Purchase of materials and equipment Updating and innovating educational content Training of professional staff <u>Expected results:</u> Modernly equipped spaces for school cooperation with companies
<b>Innovations in study programs and life-long learning</b>	OP HR	786 000 EUR (capital and non-capital expenditures)	<u>Main Activities:</u> Analyzing the needs of employers, monitoring and anticipating needs Creating competence standards Creating and accreditation of new LLL programs Implementation of LLL activities <u>Expected results:</u> New Accredited Lifelong Learning Programs Competence models
Improving the communication of a school	OP HR + other sources	300 000 EUR (non-capital expenditures)	<u>Main Activities:</u> Creating a school communication strategy Preparation and implementation of marketing activities <u>Expected results:</u> Increasing pupils' interest in studying Joint projects between school and companies Involving the school in dual education

Planned investments of the project

Type of investment/ activity (by category)	Cost estimate	Brief description of the investment	Other additional information to describe the investment (justification, additionality, etc.)	Notes (problems, risks, implementation assumptions, sequence and dependency ...)
(i) study program/study materials	110	a) costs associated with the provision of LLL <ul style="list-style-type: none"> <li>• course accreditation - electrotechnical minimum, tire, hydraulics - preparation of documents</li> <li>• e-learning - preparation and digitalization of study materials, textbooks, worksheets (workbooks)</li> <li>• presentation software</li> <li>• preparing an educational plan and curriculum</li> </ul>	<ul style="list-style-type: none"> <li>• Increase employment opportunities and respond to labor market needs through lifelong learning</li> <li>• Increase the competences of teachers and innovate the school educational program in the field of industrial informatics</li> </ul>	
(ii) education/career development of staff	350	<ul style="list-style-type: none"> <li>• Teaching teachers and masters for new technologies</li> <li>• excursions and mobility for teachers</li> </ul> <p>Cooperation with quality schools abroad (Austria, Poland, Czech Republic)</p> <ul style="list-style-type: none"> <li>• confronting development trends in vocational training with successful schools abroad</li> <li>• excursions, internships for pupils, teachers, masters of vocational training</li> <li>• Joint projects at the level of schools</li> <li>• exchange of experiences</li> <li>• Teleconferencing</li> <li>• joint visits to joint ventures together with representatives of our businesses,</li> <li>• exchange practice of pupils in foreign companies cooperating with the</li> </ul>	<p>Make further education available to pedagogical staff with an emphasis on enhancing their electrotechnical skills.</p> <p>Improve school communication on an international level, especially with successful VET schools in wider European region in order to compare and verify educational practices adopted, technical direction of school, for purpose of transferring ideas and experiences, confrontation school development trends and cooperation through meetings excursions, exchange visits for pupils and teachers, even in</p>	

		<p>cooperative school,</p> <ul style="list-style-type: none"> <li>• Verification of educational programs</li> <li>• Verifying trends in education across countries</li> <li>• Transfer of ideas</li> <li>• mobility</li> <li>• Implementing experience in the learning system and content</li> <li>• Creating innovative materials for conveying information to employees</li> <li>• Creating innovative learning content</li> </ul> <p><b>Internal communication</b></p> <ul style="list-style-type: none"> <li>- improving the school's external communication within the region</li> <li>- <u>primary schools</u> - workshops with us and in the primary school, providing workshops for the practical education of primary school pupils, open door days, providing transport to primary school pupils for excursions and other activities.</li> <li>- <u>universities</u> - joint projects, internships of pupils and employees in universities, promotion of technical education, discussions with successful graduates</li> <li>- <u>state institutions, e.g. Labor Office, ŠIOV ...</u></li> </ul> <p>joint projects in the field of lifelong learning, training and retraining also in cooperation with employers, use of dual-points for pupil visits and information</p> <ul style="list-style-type: none"> <li>- <u>employers</u> - excursions, workshops, internships, pupil's practice, training, information on new technologies, requirements for educational content, presentation of employers at school ...</li> </ul>	<p>cooperating companies from both parties.</p> <ul style="list-style-type: none"> <li>• to improve the interest of primary school pupils in technical education,</li> <li>• to improve the preparation of our pupils so that they can best manage the transition from secondary to higher education in relation to the employment office for the best possible applicability of graduates in the region, ŠIOV - dual education</li> <li>• Employers - to get the best possible overview of the labor market requirements in the region and to modify the learning content according to the real needs of the companies</li> </ul> <ul style="list-style-type: none"> <li>- public - for the promotion of professions in order to motivate and guide towards technical education</li> </ul>	
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		- <u>public</u> - open days, public school events, school events together with residents, provision of technical advice, education living near school, provision of technical advice, education, training, actions for children and pupils		
(iii) equipment and facilities	$1\,100 + 210 + 280 + 36$ $= 1\,626\,000$	<p>Study program Mechatronic Mechanic - Investing in a Modular Training System for Automated Production Lines</p> <p>Study program programmer of machining and welding machines and equipment - investment in technological equipment</p> <ul style="list-style-type: none"> <li>• machine tools for turning and milling,</li> <li>• classroom for robotized line, welding robot, CAD, CAM (computer and software) simulation</li> <li>• A classroom for programming a robotized line</li> </ul> <p>Study program of electrician mechanic - investment to build a complex workplace for electrical installations:</p> <ul style="list-style-type: none"> <li>• addition of measuring equipment (oscilloscopes, signal generators) to electrolaboratories</li> <li>• for industrial informatics - building a workplace - classroom with a software for electrical measurement and graphic programming in industry</li> <li>• Projection technology for teaching and electrolaboratory in training center</li> </ul> <p>Technologies for presentation center - presentation panels for electrotechnical</p>	<p>Creation of a workplace for work-based learning for companies and schools to support dual education for electrical engineering, mechatronics and engineering:</p> <ul style="list-style-type: none"> <li>• a common workplace for industrial automation, informatics and CNC machine programming</li> <li>• usable for companies where they can teach what they don't have the technology to teach</li> <li>• usable for company employee training</li> <li>• usable for adult learning</li> <li>• usable for the practice of pupils of other vocational schools</li> </ul> <p>We expect future investments of companies in the joint venture. We anticipate long-term rental of machines by machine manufacturers for teaching and commercial activities such as training and other forms of teaching.</p> <p><b>Equipment and Facilities - Engineering</b></p> <ul style="list-style-type: none"> <li>• the fleet is very outdated and is no longer used in practice</li> </ul>	

		<p>professions, automation and numerically controlled machines:</p> <ul style="list-style-type: none"> <li>• presentation technology</li> <li>• Conference technology and equipment (chairs ...)</li> <li>• demonstration devices</li> <li>• technical equipment for workshops</li> <li>• interior boards, technology descriptions</li> <li>• promoting companies</li> <li>• creativity exhibitions</li> </ul> <p><b>Equipment and materials – engineering</b></p> <ul style="list-style-type: none"> <li>• Machine fleet renewal - lathes, milling cutters</li> <li>• simulation program - welding robot + PC</li> <li>• simulation program - robotized line</li> </ul> <p><b>Equipment and materials – mechatronics</b></p> <ul style="list-style-type: none"> <li>• training system of automated lines</li> </ul> <p><b>Equipment and materials – electrotechnics – area of industrial informatics</b></p> <ul style="list-style-type: none"> <li>• software for electrical measurement and graphic programming in industry + accessories and PC (used by Whirlpool, Embraco)</li> <li>• Internet of things - starter kits, laptops</li> <li>• building a comprehensive electrical installation site</li> </ul> <p><b>Technology for presentation center</b></p> <ul style="list-style-type: none"> <li>• Presentation panels for electrical</li> </ul>	<p><b>Equipment and facilities - electrical engineering - industrial informatics</b></p> <ul style="list-style-type: none"> <li>• to bring electrical measurements closer to the measurements used in industry</li> <li>• Increase the efficiency, safety and comfort of existing sensor networks, actuators and control systems in different areas, respectively create new networks</li> <li>• In the workplace of electrical installations it will be possible to implement a complex installation of a residential building with appropriate measurements</li> </ul>	
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		<p>professions, automation and numerically controlled machines</p> <ul style="list-style-type: none"> <li>• presentation technology</li> <li>• conference technology</li> <li>• equipment (chairs ...)</li> <li>• demonstration devices</li> <li>• technical equipment for workshops</li> <li>• interior boards, technology descriptions</li> <li>• promoting companies</li> <li>• creativity exhibitions</li> </ul>		
(iv) buildings, premises	1200	<ul style="list-style-type: none"> <li>• hall 40 x 25x15 - ground floor +3 floor • complete, including electrical installations, heating and other engineering networks</li> <li>• structural modifications to the premises</li> <li>• creation of classrooms, electrolaboratories</li> <li>• preparation of the machine base</li> <li>• data networks</li> <li>• air conditioning</li> <li>• adjustment of the external environment</li> </ul>	<ul style="list-style-type: none"> <li>• Reduction of energy consumption and investments in the repairs of the old workshop building (boiler room, infrared heaters, heating, etc.)</li> <li>• the building will be in the school area but separate with separate connections</li> </ul>	<ul style="list-style-type: none"> <li>• Project documentation required</li> <li>• induced secondary investments in infrastructure, modification of premises, communications</li> </ul>
(v) others	50 +50 =100	<ul style="list-style-type: none"> <li>• elaboration of project documentation for engineering networks and building</li> <li>• Promotional materials <ul style="list-style-type: none"> <li>• marketing and promotion</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>• Project documentation is necessary to apply for a non-repayable financial contribution and for a building permit</li> <li>• Promotional materials for recruitment and presentation events at primary schools</li> <li>• marketing activities <ul style="list-style-type: none"> <li>• Web page</li> <li>• media promotional materials for the web</li> </ul> </li> <li>• operation</li> <li>• other marketing activities</li> </ul>	<ul style="list-style-type: none"> <li>• 10% of the estimated investment costs</li> </ul>

#### 4. Capacities for integrated project implementation

##### Brief overview of realized projects:

The school has recently implemented 1 publicly funded project.

Funds received through projects over the past 5 years: 352 143,98€

##### Brief overview of implemented projects, implementation status:

Source of funds / OP + other resources	Project name and its focus	Amount of aid granted and% of co- financing	Implementation status - expected date of project completion
OP Education-2012/1.1/08-SORO	Electro technicians and mechatronics best prepared for the practice	352 143,98€	After implementation

##### A brief overview of prepared projects, state of preparedness:

Source of funds / OP + other resources	Project name and its focus	Amount of sum requested	State of preparadness

##### The amount of funding foreseen/ requested through projects:

##### Cooperation with organizations and institutions, project partners:

Professional practice of pupils by about 20 employers in the region

Additional information on the proposed project, annexes:

## Integrated project design/Project concept

**Applicant:** Stredná odborná škola agropotravinárska a technická, Kušníerska brána 349/2 Kežmarok

### 1. Basic information about the integrated project

**Integrated project name:** VET school agro food and technical in Kežmarok as a **modern regional center for life-long learning and support of inclusion and local economy in bioeconomical sectors**

**Sector(economic sector):** Agriculture, food production, bioeconomy, sustainable energetic and circular economy

**Subregion and place of project implementation:** POPRAD, Kežmarok district, city of Kežmarok

Prešov self-governing region, VET School agro food and technical, Kušníerska brána 349/2, Kežmarok

#### Partners:

- Regional Development Support Center of Kežmarok District, z.z.p.o. (Implementation Agency for Action Plan of the Least Developed District of Kežmarok)
- Center for the Development of Tourism PSK for the High Tatras, z.z.p.o. (Regional Development Agency for the Tatra-Spiš Region)
- Micro entrepreneurs and SMEs in the bioeconomy sectors (primary production, processing and services, trade and services, education, R&D, technology innovation, ... in negotiations)
- Local government (according to location of activities)
- Slovak Chamber of Commerce – regional chamber in Prešov
- Regional chambers of agriculture and food in the affected area (Poprad, Stará Ľubovňa, Spišská Nová Ves, Levoča)
- National/ sectoral professional bodies, organizations and agencies (CCTIA, NPPC, SBA... some still under negotiation)
- Slovak university of agriculture Nitra, AgroBioTech, Slovak Cluster of Bioeconomics (in negotiation)

- EKOTREND - Organic Farming Union
- Other sectoral organizations of food producers and producers (... some in the negotiations)
- Friends of Earth CEPA, o.z. (sustainable energy)
  
- Slow Food Tatry, o.z.  
and other partners - in the negotiations

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## **2. Intent and objectives of the integrated project**

Intent, main objective:

To transform VET School gradually into a modern regional education center for the future in the bioeconomy sectors through the creation of a network of specialized workplaces and shared facilities together with actors in the local economy and the social economy with the support of modernization of material and technical facilities and equipment of school workplaces. Extending the school to a regional center by building a shared public infrastructure to prepare human resources and to support business development enhanced by institutional social capital creation activities. Projects and joint development programs with socio-economic partners in the region will enable the creation of a flexible system for human capital and skills enhancement which reacts to a regional labor market and local economy and supports a functional inclusion of a growing proportion of marginalized groups.

Specific objectives of the integrated project:

- to build a new trans-regional learning center as a network of specialized VET centers in the fields of agriculture, food production, circular economy, sustainable energetic and selected technical fields

- to develop new and innovate existing study programs in bioeconomics, precision agriculture and technical fields related to new technologies in agriculture, the circular economy and the low carbon economy;
- to implement a pilot modern career guidance and lifelong learning services
- to strengthen the aspects of inclusive education and social inclusion of disadvantaged groups across the borders and in a connection with social economy actors operating in the bioeconomy sectors
- to provide material and technical equipment for vocational training to meet the current demands of the regional labor market for agrotechnics and mechanization, veterinary epidemiology and food technology and to the need to reduce carbon emissions in agriculture and eliminate dependence on fossil fuel use
- to strengthen the preparation of human resources to support the local economy, local producers, start-ups and innovations through a network of practical food incubator workplaces and a support network of social economy actors and the regional food chain
- to strengthen local cooperation, development and innovation capacities with the aim of creating territorial partnerships of VET schools, entrepreneurs, development organizations, departmental professional organizations and R&D organizations and education for a transfer of know-how - verification of a pilot cooperation model.

### 3. A brief description of the integrated project

#### Baseline situation and justification of the need to implement the integrated project:

Due to the development of technologies, changes in the labor market, changes in socio-economic conditions, the material and technical equipment of vocational schools, workshops and other professional workplaces of the school is insufficient and does not meet the requirements of today's standards, the needs of potential employers and today's trends in agriculture, food and related sectors.

The project intent is based on an analysis of labor market needs, employers' requirements in the region, as well as on own experience and knowledge of the school management during the implementation of similar projects. The offer of school study programs (various fields of study) clearly show that the priority of the school must be the employment of pupils in the field of agriculture, food production and selected technical fields.

The project is elaborated in accordance with the valid Conception of vocational education and training of pupils to pursue a profession and professional activities in the agricultural sector.

### Expected results and assets of the integrated project:

Expanding the expertise and spectrum of VET school support activities to the field of bioeconomy is based on the need to exploit the unique potential of agriculture, agri-food and the existing knowledge and skills effectively. It is in the rural area - that is characteristic of the Prešov region - that the bio-economy has the potential to create the most long-term sustainable employment opportunities.

A major challenge for society is the production of healthy and safe food and the ability to adapt agriculture to changing living environment conditions. In order to create a competitive and sustainable production of food, feed, fiber, biomass, wood and biological raw materials, it is necessary to switch to a modern production growth with the support of new technologies as well as the use of traditional and craftsmanship processes. The vision of the RIS 3 SK - Healthy Food and Environment domain is to stimulate a sustainable agricultural development based on the synergy of science and practice and the principles of a green inclusive economy and growth.

Bio-economy, representing a turnover of EUR 2.3 trillion and creating 8.2% of jobs in the EU is key to the sustainable functioning of the EU economy. The introduction of a sustainable regional bio-economy through increased participation of primary producers in the local economy will bring new and better jobs using the latest technology, especially in rural areas typical of the Prešov region. According to EU estimates, more than 1 million new jobs could be created in "bio-industries" by 2030, in line with local low-carbon strategies, modernization strategies for the existing industrial base (eg chemical industry, construction, wood processing industry, energy, etc.). Bio-economy combines the worlds of physics, digital technology and biology with the use of existing natural resources of the area (production of products without harming the environment and with a rapidly decreasing need for fossil energy). A sustainable bioeconomy is a renewable component of the circular economy that supports a strategic and systemic approach to introducing innovations in the territory (Horizon Europe - "Food and Natural Resources") to a new value chain and creating new smart specialization partnerships. For the PSK region, and in particular its rural area, the bioeconomy offers many opportunities for economic and regional development by creating new jobs and improving territorial cohesion, especially in peripheral and least developed areas. For farmers and forest managers, it can be an important means of diversifying income while supporting local rural economies by increasing investment in skills, knowledge, innovation and new business models (COM (2018) 673 final), a measure targeting an inclusive bio-economy in rural areas.

By providing material and technical support to individual specialized centers, the school wants to provide full and modern education and guidance to pupils and other clients of life-long learning and counseling with the aim of preparing competent and skilled young workers. Attractive, modern facilities and work-based learning will motivate pupils to choose a career in the bioeconomy sectors and to improve their own study performance too. Outputs from the

implemented investment will have a long-term positive impact not only on pupils but also on the whole region, which is characterized not only by tourism, but also by developed agriculture and forestry.

The proposed integrated project is in line with the approved and valid strategic documents at the PSK and local level and in many aspects complies with the recommendations and measures of the Government-approved Action Plan for the Development of the District of Kežmarok

(<http://www.nro.vlada.gov.sk/najmenej-rozvinute-oresy/kezmarok/>).

The project includes the completion of a modern educational infrastructure, the establishment of a system of continuous training for professional staff, the creation and innovation of VET content and methods, the development of new school services as a regional lifelong learning and guidance center in a close cooperation with relevant organizations and institutions (further training, competence center, support of social entrepreneurship, joint workplaces with business entities, transfer of knowledge, experience and good practice examples) through disseminated implementation projects eg \*:

- **Inno & Tech LABS** - Education Center for Precision Agriculture and Innovation - (DronLab, AppsLab and others) as a training center for the use and deployment of the latest IT and technologies in agriculture. The center will also include joint workplaces with entrepreneurial subjects.
- **Food & Bio LABS** - "**Living Laboratory**" pilot project to teach, develop and test local innovations in a collaboration with local SMEs with a support from R&D institutions based on ecological approaches and "circulation" in primary production and food production as a part of VET, networking social economy, sustainable energy and the circular economy.
- **The 'Competence Center'** pilot project, focused on life-long learning and guidance with a locally specific inclusive component.
- **RegioFood DevNet** – **regional** network of centers and project partnerships as a part of education for social economy subjects in the regional food chain following inclusive centers in Rakúsy, Kežmarok, Spišská Belá and other places. The implementation project responds to the deficit of the presence of higher-education institutions in the region and overcomes the transfer gap by creating partnerships and local capacities for the development of cooperation between VET school and entrepreneurs with developmental institutions, institutions focusing on business support, innovation, R&D and sectoral professional workplaces.

## Overview of the individual/partial projects of the integrated project

The name of a partial project	Source of funds/Ops + other sources	Amount of expected sum requested	Project orientation, main activities and expected results
<b>Inno&amp;Tech LABS</b>	OP R&I + private sources + IROP		
<b>Food&amp;Bio LABS</b>	OP R&I + private sources		
<b>Competence Centre</b>	OP Human resources		
<b>Social economy subject Rakúsy</b>	OP R&I + OP Human resources private sources, Action Plan for the Development of the District of Kežmarok		
<b>Centrum of veterinary medicine and hygiene</b>	OP R&I + OP Human resources		
<b>RegioFoodDevNet – regional network of VET school and food chain</b>	OP R&I + OP Human resources private sources, Action Plan for the Development of the District of Kežmarok		
<b>Innovations of school study programs</b>	OP Human resources		

## Proposed Investments/Project Activities:

Type of investment/ activity (by category)	Cost estimate	Brief description of the investment	Other additional information to describe the investment (Justification, additionality, etc.)	Notes (problems, risks, implementation assumptions, sequence and dependency, etc.)
(i) study program/study materials	<b>120 000 EUR</b>	Investments related to the digitization of existing study materials, creation of new study materials for new or updated study programs, setting up a digital library and online publishing options including licenses	These are study materials for study programs included in the network and an approved pilot-tested study program	The absence of existing study materials, the follow-up to the approval of individual study programs and their pilot verification, the project can start in phase I



(ii) education/career development of staff	<b>150 000 EUR</b>	Updating and/ or introducing new study programs, new methods and forms of teaching require further training of school staff, including study visits abroad, participation in conferences and other courses	Possible private co-financing – co-financing from the site of entrepreneurial subjects and ERASMUS + funding	Low motivation of professionals to further education
(iii) equipment and materials	<b>1 589 000 EUR + 200 000 EUR</b>	Facilities and facilities for individual professional centers in addition to the existing facilities and equipment, except for equipment and equipment for SSE Rakúsy.	The following centers are planned to be set up: Center of Precision Agriculture DRONLab, FOODLab with specialized workplaces, and the largest investment is the Center for Agriculture, SES Rakúsy - 200 000 EUR. Necessary for acquiring the knowledge and skills of pupils set by the performance standards of the relevant school educational program - Veterinary Health and Hygiene.	In the annex, a detailed breakdown of the planned equipment and facilities by specialist workplaces is included.
(iv) buildings, premises	<b>930.000 EUR</b>	Modification of buildings - modernization and completion, possibly a construction of a new building related to the establishment of new professional centers, modification of public spaces and surroundings of the school and its centers.	Repair of the façade of the building (protected monument) and its fencing and extension of the building - planned amount of EUR 350,000, completion of the Precision Economy Center - EUR 500,000, veterinary centers - EUR 50,000.	Projects require the elaboration of project documentation and building permits, minor modifications will be implemented gradually in phase I, construction and reconstruction in III. phase. Projects are subject to consultation with PSK.
(v) other	<b>80 000 EUR</b>	Cooperation with primary schools, external companies - potential employers and promoters in agriculture,	Increase the attractiveness of the school curriculum, promote new technologies, improve cooperation with local and	Disinterest of relevant actors to cooperate and participate in school activities and projects

		professional competitions, information campaign + accreditation costs	other relevant actors.	
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#### 4. Capacities for integrated project implementation

##### Brief overview of realized projects:

In the last 5 year, school implemented 3 more significant developmental projects (see table below).

Funds received through projects over the past 5 years: 1 037 397,26 EUR\*

Brief overview of new projects, implementation status: currently in preparation - projects of training workplaces, incubators and subjects of social economy within Inno & Tech + Food & Bio Labs projects + preparation of materials for a project documentation - reconstruction and completion of the main school building.

##### **Brief overview of projects implemented in last 5 years, implementation status:**

Source of funds / OP + other resources	Project name and its focus	Amount of aid granted and% of co- financing (in thousands of EUR)	Implementation status - expected date of project completion
OP IROP 2014 -2020	"Investing in Vocational Education reflects the needs of the labor market", focusing on equipping vocational teaching and workshops for car <u>electronics and electrical engineering</u>	566.461,24 EUR	- public procurement for material and technical provision of vocational training classrooms implemented, purchase (275.310,24 EUR) - public procurement for a

			provision of workshop equipment (EUR 272,737.97)
<b>MoE</b>	"Promoting lifelong learning in a less developed region", theoretical education and training in educational programs: Managing, operating and maintaining self-propelled agricultural machinery and road motor vehicles, financial literacy, good manufacturing and hygiene practices	186.848,37 EUR	<ul style="list-style-type: none"> <li>- completed theoretical preparation and part of material security purchase</li> <li>- public procurement for workshop equipment (EUR 18,278.87)</li> <li>- implementation since February 2019/ professional courses/</li> </ul>
<b>MoE</b>	"Support of further education of MRC members with the aim of facilitating their access to the labor market", innovation of pedagogical documentation and didactic means intended for out-of-centre workplaces in study programs of technical services in car repair, wood processing, construction production and food production	284.087,66 EUR	<ul style="list-style-type: none"> <li>- project completed in 2015, monitoring by 2020 (beginning 12/2013)</li> </ul>
<b>State Institute for VET</b>	"Vocational education and training for the labor market", material and technical equipment for the study program of confectioner-cook, construction production, flooring	Without funding	<ul style="list-style-type: none"> <li>- Project implementation ended in year 2016</li> </ul>

The amount of funding foreseen/ requested through projects: min. 3.184.000 €

Cooperation with organizations and institutions, project partners: PD Kežmarok, PD Spišská Belá, AT Tatry Spišská Belá, AGROZAMI, s.r.o, SLOVBYS Spišská Belá, TIS Toporec, Regional Development Support Center of Kežmarok District, Center for the Development of Tourism PSK for the High Tatras, z.z.p.o. (Regional Development Agency for the Tatra-Spiš Region), Slow Food Tatry, o.z., Spišské zemiaky, z.z.p.o.,

Additional information on the proposed project, annexes:

- List of items – facilities, equipment and materials by study programs

\* PSK decision on location of school premises

## Integrated Project Design / Project Concept

**Applicant: Secondary School of Polytechnic Andy Warhol, Medzilaborce**

### 1. Basic information about the integrated project

Integrated Project Name:

#### **Polytechnic Secondary School of Andy Warhol - Modern Education Centre**

Sector: support of micro, small and medium enterprises in PSK, support of self-employed persons /SZČO/

Sub-region: NUTS 3 - Prešovský kraj, NUTS 4 - Medzilaborce, NUTS 5 - Medzilaborce

(Premises of specialized SOŠPAW at Mierová 296 and school building at Duchnovičova 506), HUMENNÉ subregion

**Partners:**

- local companies, Medzilaborce district
- Self-employed
- Laborec LAG, local action group
- local regional government
- Andy Warhol Museum of Modern Art
- Slovak Chamber of Commerce - Regional Branch of Prešov



- SOPK - Regional Chamber Prešov
- CreAtiW, o. z

Contact person: Ing. Vladislav Kvaska, LL.M., vkvaska@gmail.com, 0907 996 723

## 2. Intent and objectives of the integrated project

### Intent, primary goal:

The main goal of the project is to transform the Secondary Technical School of Polytechnic Andy Warhol into a modern educational centre with a significant impact on the development and support of entrepreneurship in the sub-region Humenne by completing infrastructure and improving the quality of education.

### Specific objectives of the integrated project:

- to prepare the professional staff and teachers of the school in accordance with the school development strategy, to ensure a systematic increase of the professional skills of the teaching staff,
- to provide a modern and flexible educative / learning program by introducing innovative forms of teaching and innovation in vocational education and training, an attractive range of learning and learning opportunities for pupils,
- strengthen cooperation with the business, non-profit sector and local government, including educational institutions in the HUMENNE sub-region,
- modernize the school premises and provide high-quality material and technical equipment for teaching and workshops corresponding to current technology developments,
- set up a business support centre (business incubator)
- Encourage the provision of new school services as a modern learning centre with a focus on lifelong learning, guidance and entrepreneurship.
- Revitalize the school's public areas / school premises.

## 3. A brief description of the integrated project



### Baseline situation and justification of the need to implement the integrated project:

The long-term high unemployment in the project's target area is due to the specific factors and impacts of economic and social policy. The basic preconditions for the development of the target area are the creation of jobs using domestic natural and human resources, the economic potential of the region, a favorable international position and the improvement of the business environment. The unemployment rate of secondary school graduates is influenced by the lack of job opportunities in the Prešov region, but also by employer dissatisfaction with the quality of vocational training and professional experience, which is largely due to the lack of material and technical equipment at the secondary vocational school. The district and city of Medzilaborce belongs to the territorial units that have long been the lowest employment rate of secondary school graduates in PSK. Similarly, the migration of young people to work outside the region and the district is becoming increasingly problematic. This indicator also includes the district and the town of Medzilaborce among the most exposed within the region. These handicaps often impede them in a full-fledged family life by their social status. Especially for these reasons, the question of the quality of vocational training is up to date for Medzilaborce. From the socio-economic point of view, this region is less developed. The long-term negative trend in the development of the territory caused that in 2017 the district was ranked among the less developed in terms of legislation entitled to support. In the district development action plan, the issue of the quality of secondary education is a priority. Our school was actively involved in the creation of this program, which was finally approved by the Slovak Government.

### Expected results of the integrated project:

- completing the school's technical capacities, creating a network of practitioners,
- a modern and flexible training program, the introduction of innovative forms of teaching, the innovation of educational content,
- high-quality material and technical equipment, training and workshops, overall modernization of the school premises - vocational training and workshops corresponding to the current trend and needs of the school
- new lifelong learning services and business support services
- Strengthening practical training, linking with practice
- attractive public spaces and school premises in both campuses (Duchnovičova, Mierova).

The proposed project is in line with approved documents at PSK and local level such as the Action Plan for Development of Medzilaborce District

[https://www.nro.vicepremier.gov.sk/site/assets/files/1360/akcny\\_plan\\_rozvoja\\_okresu\\_medzilaborce.pdf](https://www.nro.vicepremier.gov.sk/site/assets/files/1360/akcny_plan_rozvoja_okresu_medzilaborce.pdf)

The proposed integrated project consists of seven separated subprojects that are linked in time and substance to the main objective and goal of the integrated project.

Proposed integrated project investments: € 3,095,000

Of which anticipated capital expenditure: EUR 2 000 000

#### 4. Overview of individual projects of the integrated project

The name of the subproject	Source of funds / OP + other resources *	Amount of expected amount requested	Project orientation, main activities expected results
<b>P 1: Quality of human resources and capacity building as part of school development</b>	OP HR + other sources	€ 30,000 Non-capital expenditure	<p>The project is aimed at increasing the expertise of pedagogical and professional staff</p> <p>Main Activities:</p> <p>Training program preparation</p> <p>Educating educators</p> <p>Expected result:</p> <p>A good team of educators and professionals, expertise, involved partners and new learning programs</p>

<b>P2: Innovation and Modernization of School Education Program</b>	OP HR + other sources	<p>€ 50,000</p> <p>Non-capital expenditure</p>	<p>The project is focused on innovation and modernization of the educational program</p> <p>Main Activities:</p> <p>Analysis and identification of educational needs, competence standards</p> <p>Creating and modernizing the school's educational program</p> <p>Expected result: A modern and flexible training program</p> <p>Introducing innovative forms of teaching</p> <p>Learning content innovation</p> <p>ECVET</p>
<b>P 3: Provision of material and technical equipment for teaching and workshops</b>	IROP + OP R&I	<p>€ 540,000</p> <p>Non-capital expenditure</p>	<p>The project is focused on the acquisition of material and technical equipment of the classroom and workshops for the individual study</p>



			<p>and teaching departments of the school, which the school has in the network</p> <p><u>Main activities:</u> Provision of material and technical equipment for teaching and workshops</p> <p><u>Expected result:</u> Comprehensive and modern training and workshop equipment</p> <p>Reconstructed premises</p>
<b>P 4: Modernization of professional teaching and workshops</b>	RP	<p>€ 150,000</p> <p>Capital expenditure</p>	<p>The project is focused on the overall modernization of the premises of vocational teaching and workshops</p> <p>Main activities: Reconstruction of vocational training and workshops</p> <p>Expected result: Modern professional training and workshops</p>
<b>P5: Adapting school premises to</b>	OP R&I + OP QE + other resources	<p>€ 465,000</p> <p>Capital expenditure + non-capital</p>	<p>The project aims to improve school availability and public space</p>

climate change and improving school availability		expenditure	Main Activities:  Introduction of electromobility system  Modification of beloved spaces and their multifunctional equipment  Building a community garden  Expected result:  Improving school availability, multifunctional attractive public areas of the school
P 6: Building and setting up a business incubator	OP R&I + OP HR + other resources	€ 700,000  Capital expenditure + non-capital expenditure	The project is aimed at supporting all forms of entrepreneurship and linking education with practice.  Main Activities:  Construction and reconstruction of incubator premises  Establishment of an incubator – arrangement and equipment  Creation of an educational-

			<p>counseling centre</p> <p>Expected result:</p> <p>Providing professional services for target groups DUAL 18+</p> <p>APEL</p>
<b>P 7: Building investments to reduce the energy performance of buildings</b>	OP KŽP + other resources	<p>€ 1,110,000</p> <p>Capital expenditure + non-capital expenditure</p>	<p>The project is aimed at reducing operating costs in existing school buildings. Main Activities:</p> <p>Development of PD Preparation and implementation of an energy audit</p> <p>Building construction work</p> <p>Expected result: Specific energy consumption reduction</p> <p>Improvement of building and technical condition of school buildings</p>

\* proposed funding source

Proposed investment / project activities:

Type of investment / activity (by category)	Cost estimate (in EUR'000)	Brief description of the investment	Other additional information to describe the investment (justification, additionality, etc.)	Notes (problems, risks, implementation assumptions, sequence and dependency ...)
(i) study program / study materials		Investments related to the digitization of existing study materials, creation of new study materials for new or new updated teaching and learning programs, setting up a digital library and online publishing options including a license	These are study materials for study and study programs included in the network	The absence of existing study materials, the follow-up to the approval of individual departments, the project can be started in phase I
(ii) education / career development of teachers		Updating and / or introducing new learning and learning disciplines, new methods and forms of teaching require further training of school staff, including study visits abroad, participation in conferences and other courses	Possible private co-financing - business and ERASMUS + funding	Low motivation of professionals to further education Failure to approve the project, the project can be started in phase I
(iii) equipment and facilities		Equipment and facilities for individual professional workplaces and business incubator in addition to the existing equipment	Necessary to acquire the required knowledge and skills of pupils as set by the performance standards of the relevant SCP and the provision	In the annex, a detailed breakdown of the planned equipment and equipment according to professional workplaces (budgets of individual ČP), part of the

		and facilities, with the exception of equipment and facilities for SSE Rakúsy in accordance with the SEP.	of new planned services.	expenditure can be realized in phase I
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(iv) buildings, premises		Modification of buildings - modernization and completion of buildings related to the establishment of new professional centres, modification of public spaces and the surroundings of the school and improvement of school availability.	In accordance with the elaborated project documentation and energy audit results.	Projects require the elaboration of project documentation and building permits, minor modifications will be implemented gradually in phase I, construction and reconstruction in III. phase. Projects are subject to consultation with PSK.
(v) others	50	Promoting cooperation at all levels, implementing joined projects with foreign partners	Increasing the attractiveness of OVP, improving cooperation with different organizations and institutions at home and abroad	Lack of interest in cooperation and participation in joined projects

## 5. Capacities for implementing an integrated project

Brief overview of realized projects: in the table

Funds received through projects over the past 5 years:

Total funding raised of € 405,435, including 5% co-financing.

Brief overview of implemented projects, implementation status:

Source of funds / OP + other resources	Project title and focus	Amount of aid granted and% of co- financing	Implementation status - expected date of project completion
OPLZ	RE EDUC - Implementation of a comprehensive educational program called RE-EDUC to analyze educational needs, develop training programs and follow-up implementation of pilot training courses. The immediate impact of such a project will be to improve target group positions (young people up to 25 years old, older people, employees, self-employed and persons involved in ČŽV) in terms of strengthening their key competences.	172, 468 ths. EUR 5% co-financing	in realization expected completion of project 12/2019
IROP	SOŠ Andyho Warhola – project of improving the quality of vocational training - investment in the acquisition of teaching aids and equipment, construction of a training area for the field of study Fire Mechanic	118, 763 ths. EUR 5% co-financing	in realization expected completion of project 1/2020
OP Education	Innovation of content and methods of education at SOŠ Andy Warhol in Medzilaborce. Transforming a traditional school into a modern one and adapting it to the current demands of the labor market	114, 204 ths. EUR 5% co-financing	completed in 2015

#### A Brief Overview of Prepared Projects, Preparedness Status:

Source of funds / OP + other resources	Project title and focus	Amount requested	Ready status
RDP + IROP	Integrated local development strategy CLLD	Up to 100 000 EUR	In implementation
RP /AP district Medzilaborce - ŠR	District Development Action Plan Medzilaborce	Up to 100 000 EUR	

The amount of funding foreseen / requested through new / prepared projects over the past:

The total amount of funding raised is EUR 200 000, including 5% co-financing.

Cooperation with organizations and institutions, project partners:

- Entrepreneurs and other entities are listed gradually in all proposed school sub-projects

Additional information on the proposed project, annexes:

- Total IP budget attached
- Photo documentation

## Project suggestion /Project concept

Applicant/name of school/: Spojená škola, Ľ. Podjavorinskej 22, Prešov



## 1. Basic project information

**Name of project:**

Trade school of future for technical professions

**Sector (economic sector):**

INDUSTRY, mechanical engineering – Innovations

**Sub region and place of project realization:**

PREŠOV, district Prešov, city Prešov, Spojená škola, Ľ. Podjavorinskej 22, Prešov, Prešov municipal district

**Partners:**

Spinea s.r.o., Prešov

GOHR s.r.o., Veľký Šariš

**Contact person:** Ivan Baran

## 2. Project aim and objectives

Aim, main objective:

To prepare students of Spojená škola for the technologies of following industrial revolution through the innovation of capitalization and preparation of human resources.

Project specific aims:

Through the innovations in specialized education towards the better exercisability of students at labor market:





- to open new study programs which are required by labor market,
- to equip the school with new technologies,
- to reinforce dual education with the employers,
- to support the interest of students in technical study majors and professions,
- to create a presentation career center for the students and parents.

### 3. Brief project description

#### Starting situation and substantiation of the need to realize the project:

Spojená škola has been operating at the labor market for more than 60 years. They have been successfully preparing their students for technical professions, the graduates pass directly to the labor market but also study at technical schools. In spite of the crisis, the school has remained faithful to its original specialization which is in concord with the economical focus of the district with prevailing structure of industry in the city and the district.

It is obvious that recent industrial revolution, which has been in motion, increases the pressure on the content of education, its shift towards automation and modern technologies, interconnection with information means. The employers in the region require an up-to-date educated workforce which is capable of working with recent technologies and anticipate their preparedness for future technologies. Despite enormous effort of quality pedagogues, Spojená škola cannot provide this on their own. Present condition of the school, as for the workshop equipment with technologies, seems to be a rather complex one. Technological equipment has got stuck in the 1960s and is energy- and maintenance-consuming. Even though the school has tried to complete some partial innovations, they feel they are not capable of fulfilling the requirements of today.

The employers face the same pressure. They have to keep up with the competition, growing costs, and production effectiveness. Everybody who wants to succeed and keep up must continue in technological development. This contrasts sharply with the situation on the market where there is alarming lack of employees with technical education, especially the education for the latest technologies. This is the reason why the employers require proactively and help in solving the problem from schools.

At the same time, the needs of employers are no longer limited to a simple transfer of school graduates to them, they are interested in participation in their preparation and education, they want to intervene into the content of education so that they would minimize the need of further complementary graduates' education. Also, the employers require cooperation in the preparation of students in dual education so that educational topics, which they



cannot cover, were provided by the school and vice versa, so they would be able to teach and present some parts of educational programs by their own experts.

Communication with the region connected with and influencing schools appears to be exceptionally important, such as with pupils from elementary schools who are the school's potential clients, their parents, the authorities, the employers – companies, other schools of the same type, self-employed workers, people interested in lifelong education, and the school's graduates. Harmonizing the school with the labor market and, on the wider level, comparison of the accuracy of school's processes in confrontation with the most successful schools in the region, state, Europe are also essential. Transfer of experience and information from different institutions seems to be fundamental as well. In this area the school has just begun its work, there is the need of wider confrontation not only for the management of the school but also the school employees – teachers, training specialists but mainly students.

### **Expected results and benefits of the project:**

The benefits of the project will be seen mostly by the students but also the employers – recent and future ones, the employees and the unemployed. Such structured project will unanimously contribute to overall improvement of education quality.

Another benefits include considerable improvement of material and technical base of Spojená škola, the improvement of the preparation of the teachers, more attractive image of specialized training education in the eyes of the pupils from elementary schools who are considering technical education. Next there is a tighter cohesion of classroom education and practice, better cooperation with the employers, creation of a center which can attract the employers and supplying companies to become partners of the school. All those elements can reflect in the higher quality of the preparation of the students for individual study majors and concrete skills. The level of knowledge and skills should reach the world parameters and the students should be employed in any company in the region, on national level and within Europe.

Quality school background together with quality preparation will create a graduate for whom innovation is a part of his/her scenically and skill portfolio.

The expected measurable benefit for the school is the increase of the number of applicants and graduates, reinforcement of critical study majors when the weak point of the increase of graduate's number is relatively low attractiveness of the study majors. By the improvement of educational environment, the increase of the interest will synergic follow. Higher quality of machinery equipment, improvement of facility equipment, creation of the center which would



show future jobs and their perspective in an attractive form can change the myths about manual jobs and can be shown in a higher willingness of the pupils to consider technical study majors. It can also improve the direction of the interest of graduates in connection with the needs of companies but also the study at technical universities.

Sector cooperation – cooperating network of schools, sharing and transfer of knowledge and skills of schools, „sharing“ teachers and students so that each school could share its materials and sector skills within a certain sector alliance.

The following interconnection: students – parents – school – employers – technical universities – re-qualification – lifelong education can become a line which connects recent and future aiming of the school. Individual parts of the project are interconnected in the same way.

As a whole, the investment will enable to increase the number of students, graduates and students involved in dual education as well as the cooperation with the universities. It will enable to increase the quality of education, the level of networking of elementary school – secondary school – employer (university). It will improve the cooperation with employers' associations, industrial chambers, dual points of ŠIOV, etc. It will enable to create and realize common projects for the improvement of preparedness and exercisability in technical study majors.

#### Review of individual partial projects of integrated project

Name of partial project	Resources of finance/OP + other resources	Expected required sum	Project aim, main activities, expected results
<b>Establishment of common workplace of practical education for mechanical engineering studies</b>	OP R&I + OP HR	1 700 000 EUR Capital and current expenditure	Project aimed at the creation of a top common workplace of the school and companies focused on mechanical engineering studies. <u>Main activities:</u> Preparation and realization of object construction Machinery and equipment purchase Education of specialists Evaluation of new forms of cooperation with companies <u>Expected results:</u>

			<p>Regional competence center for mechanical engineering studies</p> <p>Accredited program of lifelong education</p> <p>Presentation of top technologies</p>
<p><b>Improvement of material and technical conditions of Spojená škola</b></p>	<p>IROP, OP R&amp;I</p>	<p>2 980 000 EUR</p> <p>Capital and current expenditure</p>	<p>Project aimed at modernization and completing of specialized classrooms and workshops for the studies of machining, mechatronics and automation.</p> <p><u>Main activities:</u></p> <p>Construction work on facility</p> <p>Purchase of technologies, equipment and machinery</p> <p>Education of specialists' personnel</p> <p>Creation of new study materials</p> <p><u>Expected results:</u></p> <p>Improvement of specialized education quality</p> <p>Reinforcement of practical education</p> <p>Increasing of attractiveness of the school for pupils and specialist public</p>
<p><b>Improvement of school communication – Career and presentation center of technical education</b></p>	<p>OP HR + other resources + OP R&amp;I</p>	<p>2 250 000 EUR</p>	<p>Project aimed at the increase of attractiveness of specialized education and preparation in mechanical engineering studies.</p> <p><u>Main activities:</u></p> <p>Construction work on facility</p> <p>Purchase of technologies, equipment and machinery</p> <p>Education of specialists' personnel</p> <p><u>Expected results:</u></p> <p>Increasing the attraction of technical studying</p>

			Transfer of know-how among schools within the country of origin and abroad
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### Suggested investments/project activities:

Investment/activity type (according to the following categories)	Cost estimation (in thousands EUR)	Brief investment description	Other complementary information to the investment description (justification, complementarity, expected financial resources ...)	Notes (problems, risks, realization estimations, consecutiveness and dependence...)
<b>Activity 1 – Establishment of common workplace of practical education for mechanical engineering studies (SPPV)</b>				
I. study materials	135	<p>Creation of teaching materials and tasks portfolio connected with technologies for students</p> <p>Study materials</p> <ul style="list-style-type: none"> <li>- Supporting printed and electronic materials</li> <li>- workbooks</li> <li>- manuals</li> </ul> <p>The creation of study materials will be provided by specialists in close cooperation with students.</p>	<ul style="list-style-type: none"> <li>- workbooks</li> <li>- teaching materials</li> </ul>	

<p><b>II. Education and professional development of teachers</b></p>	<p>295+ 150 = 445</p>	<p>Training on technology for masters, teachers and trainers Staff training for new software in engineering and electrical engineering, PLC automation, internet of things</p> <ul style="list-style-type: none"> <li>- machine training</li> <li>- software training</li> <li>- improving the school's external communication within the region</li> <li>- <b>primary schools</b> - workshops with us and in the primary school, providing workshops for the practical teaching of primary school pupils, open door days, providing transport to primary school pupils for excursions and other activities.</li> <li>- <b>universities</b> - joint projects, internships of pupils and employees in universities, promotion of technical education, discussions with successful graduates</li> <li>- <b>state institutions</b>, e.g. Labor Office, SIOV ... joint projects in the field of lifelong learning, training and retraining also in cooperation with employers, use of dual points for pupil visits and information</li> <li>- <b>employers</b> - excursions, workshops, internships, pupil's practice, training, information on new technologies, requirements for teaching content, presentation of employers at school ...</li> </ul>	<p>Training needed to successfully manage technology:</p> <ul style="list-style-type: none"> <li>• to improve the interest of primary school pupils in technical education</li> <li>• to improve the preparation of our pupils so that they can manage best the transition from secondary to university education</li> <li>• in relation to the employment office for the best possible applicability of graduates in the region, ŠIOV - dual education</li> <li>• Employers - to get the best possible overview of the labor market requirements in the region and to modify the learning content according to the real needs of the companies</li> <li>• the public - for the promotion of professions in order to motivate and guide the technical education</li> </ul> <p>Improving the school's communication at international</p>	
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		<p>– <b>public</b> - open days, public school events, school events with school residents provision of technical advice, education, training, actions for children and pupils</p> <ul style="list-style-type: none"> <li>- external communication</li> <li>cooperation with good schools abroad such as Austria, Poland, Czech Republic</li> <li>- confronting development trends in vocational training with successful schools abroad</li> <li>- excursions, internships for pupils teachers, masters, school management</li> <li>- Joint projects at school level</li> <li>- exchange of experience</li> <li>- teleconferencing</li> <li>- joint visits to joint ventures and representatives of our businesses</li> <li>- exchange practice of pupils in foreign companies cooperating with the cooperative school</li> <li>- verification of training programs</li> <li>- verification of educational trends in individual countries</li> <li>- transfer ideas</li> <li>- mobility</li> <li>- implementation of learning experience and content</li> <li>- creating innovative materials for providing information to employees</li> <li>- creating innovative learning content</li> </ul>	<p>level, especially with successful secondary schools of the wider, European region in order to compare and verify the adopted educational procedures, the technical direction of the school, to transfer ideas and experiences, confront the development trends of the school and cooperation through meetings, excursions, internships pupils and teachers, including in cooperating companies from both sides.</p>	
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<b>III. Facilities and equipment</b>	<p>800 + 200+ 650 =1650</p>	<p>Creating a workplace of joint work for companies and schools to support dual education for engineering:</p> <ul style="list-style-type: none"> <li>• investment into technological equipment</li> <li>• classical machine tools for turning, milling, grinding and drilling</li> <li>• CNC machine tools of school type - milling, turning</li> <li>• CAD and CAM classroom (computers and software)</li> <li>• classroom for PLC programming</li> <li>• CNC machining simulation classroom (computers, touch screens, CNC simulation keyboards)</li> <li>• grinding technology - NC and CNC</li> <li>• metrology</li> <li>• equipment for metrology and quality</li> </ul> <p><u>Welding</u></p> <ul style="list-style-type: none"> <li>• welding simulator</li> <li>• welding (welding machines for various types of TIG, MIG and welding simulations, laser) - according to company needs</li> </ul> <p><u>Computer support for individual classrooms</u></p> <ul style="list-style-type: none"> <li>• creating computer support for the project, cloud storage</li> <li>• servers</li> <li>• computers for CNC simulations</li> </ul>	<ul style="list-style-type: none"> <li>• a common engineering technology workplace</li> <li>• usable for companies where they can teach what they don't have the technology to do</li> <li>• usable for schools to teach on technologies that the school does not own</li> <li>• usable for company employee training</li> <li>• usable for adult learning</li> <li>• usable for the practice of pupils of other vocational schools</li> <li>• we expect future investments of companies in the joint venture</li> <li>• we expect long-term rental of machines from the machine manufacturers for teaching</li> <li>• we anticipate commercial activities such as training and other forms of teaching</li> <li>• support for school-based welding training, as requested by employers in the region</li> <li>• today, in principle, every machine is connected to computers</li> <li>- future energy, service and replacement savings are expected parts</li> </ul> <p>- acquiring machining skills on modern machines, not machines from the</p>	<ul style="list-style-type: none"> <li>• affiliation of the building in the school area that we now rent is necessary</li> <li>• induced secondary investments in the building, treatment of premises, insulation</li> <li>• it is necessary to build welding cells</li> <li>- floor replacement and hall barrier are required</li> </ul>
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		<ul style="list-style-type: none"> <li>• computers for programming</li> <li>• computers to machines</li> <li>• computers for CAD CAM</li> <li>• 60 pieces in total</li> </ul> <p>Innovation in NC and not NC machines (vocational training workshops)</p> <ul style="list-style-type: none"> <li>• replacement of obsolete technical equipment - classic machine tools for new, smaller, school types, according to employers' requirements, a total of 15 milling machines and 15 lathes</li> <li>• replacement of electrical connections</li> <li>• fire protection</li> </ul>	1970s	
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	<p>130+ 70+ 50+ 150+ 150+ 250 =800</p>	<p>CNC innovation - creation of a new CNC classroom in the field of theoretical teaching</p> <ul style="list-style-type: none"> <li>• a classroom equipped with simulation keyboards of CNC machines for the Sinumerik Operate operating system. The classroom allows teaching more pupils without the need for multiple machines.</li> <li>• + simple CNC milling machine</li> </ul> <p>Purchase of a higher-ranking CNC machine, with tool exchange for OV workshops</p> <ul style="list-style-type: none"> <li>• school machine e.g. Emco Mill 260</li> <li>• creating software postprocessors that can directly transfer a 3D object to machine tool code</li> </ul> <p><b>Tool shop equipment</b></p> <ul style="list-style-type: none"> <li>• equipment for targeting tools to CNC cases</li> <li>• tool shop equipment</li> </ul> <p>Measurement and metrology for OV workshops</p> <ul style="list-style-type: none"> <li>- purchasing a 3D coordinate measuring machine</li> </ul> <p>Metrology, 3D measurement, measuring instruments (measuring and diagnostic measurements, 3D measurement, measurement of technical quantities and dimensions)</p> <ul style="list-style-type: none"> <li>- purchase of more modern measuring instruments for equipping a specialized classroom for metrology - measurement of dimensions, roundness, cavities, roughness, hardness ... including communication with computer technology</li> </ul> <p>Mechatronics - Industrial automation, robotics</p>	<p>pupils learn to program innovatively with simulation programs, which reduces the likelihood of damaging the expensive CNC machine</p> <ul style="list-style-type: none"> <li>• pupils do not simulate on classic computers, but using CNC machine controls</li> <li>• the machine enables practical operation on CNC machines of higher level, but still school property</li> <li>• accurate 3D measurement is now one of the industry's basic requirements to create a professional metrology classroom with time-appropriate devices</li> <li>• purchase of a workplace with a collaborative robot of the new generation e.g. UR5</li> <li>• purchase of automation workplace with school industrial robot (e.g. Fanuc)</li> <li>• starting EDU sets for Siemens LOGO</li> <li>• Siemens s7 1200 + starter kit</li> <li>• expansion modules and resources - professional production models lines for PLC programming</li> </ul>	<p>floor replacement and hall barrier is required</p>
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		<ul style="list-style-type: none"> <li>• the lack of a modern collaborative robot (cobot) of at least a miniature e.g. UR5 for emerging Industry 4.0</li> <li>• missing school robot for learning manipulation programming</li> </ul> <p>Mechatronics - Industrial automation, PLC automats</p> <ul style="list-style-type: none"> <li>• expand the ability to teach PLC technology using EDU demonstration reports</li> <li>• adding a PLC extension module</li> <li>• completion of training models of production lines that can be connected to PLCs</li> <li>• line model with mechatronic workstations, PLCs and electro pneumatic elements, line control systems</li> </ul>		
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	120+ 120+ 80+ 50+ 50+ 1200 =1620	<p>Mechatronics - pneumatics and hydraulics</p> <ul style="list-style-type: none"> <li>no student software design</li> <li>software for pneumatic circuits - purchase of pneumatic circuit software license aka FluidSim Festo for classroom - 12 + 1</li> <li>lack of a tire and hydraulics training system in the form of training panels</li> <li>missing teaching system for electric drive control</li> </ul> <p>Computer networks</p> <ul style="list-style-type: none"> <li>we create a Cisco Academy, for teaching students in modern networking technologies</li> <li>it is necessary to extend the system with active network elements</li> <li>modernization of the classroom</li> <li>absence of optical networking, missing tools and measuring instruments</li> <li>missing elements for optical cabling</li> </ul> <p>Intelligent installations</p> <ul style="list-style-type: none"> <li>missing panels for teaching smart installations - we have only domestic production yet</li> <li>missing measuring instruments for electrical quantities and testers</li> </ul> <p>Digital technology, programming</p> <ul style="list-style-type: none"> <li>missing learning sets for modern microprocessors, e.g. for arduino, allowing to create functional circuits</li> <li>extending the portfolio with small programmable circuits such as raspberry pi and so on</li> </ul>	<p>Purchase of a license for pneumatic circuit software aka FluidSim Festo for 12 + 1- room, missing design software for pneumatic circuits for each pupil</p> <ul style="list-style-type: none"> <li>purchase of a hydraulic circuit software license aka FluidSim Festo for 12 + 1 – room, missing design software for hydraulic circuits for each pupil</li> <li>the basis of mechatronics is the control of synchronous asynchronous steps and DC motors</li> <li>preparing pupils for the Internet of things</li> <li>time domain reflectometer</li> <li>Ethernet cabling certification, e.g. LanTEK, 500Mhz - esp.1000Mhz (with adapters)</li> <li>measurement of elmag intensity field, - programmable tachometer C.A - set of modern multimeters for pupils - 25 pcs</li> <li>preparing pupils for the Internet of things</li> <li>no technology yet</li> </ul>	
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		<ul style="list-style-type: none"> <li>• the necessary school kits with expanding circuits</li> <li>Internet of things</li> <li>• Festo or Lucas Nulle training panels</li> <li>Hardware (technology) for KPC (Career presentation center)</li> <li>Technology for presentation center (small machine tools, hand tools, electrical equipment, ICT)</li> <li>Technology for presentation center</li> <li>- presentation panels for technical professions from mechanics, through engineering professions, electrical and control circuits to IT technologies</li> <li>- presentation technology</li> <li>- conference technology</li> <li>- facilities (chairs ...)</li> <li>- demonstration devices</li> <li>- technical equipment for workshops</li> <li>- machine parts</li> <li>- interior boards, technology descriptions</li> <li>- promotion of companies</li> <li>- creativity exhibitions</li> </ul>		
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<b>IV. Buildings, premises</b>	750+ 50+ 400+ 100+ 60 =1360	Building a separate school building for SPPV (new building) - hall 48 x 18 x 6 m - complete, including electrical installations, heating and other engineering networks building alterations - creating classrooms - preparation of the machine base - data networks - ventilation and air conditioning - adjustment of the external environment Project and preparatory for utility networks and building (reconstruction) repair of floors in vocational training workshops - replacement of concrete floors in vocational training workshops, removal of weathered concrete layer, spilling, grinding, penetration (reconstruction) replacement of workshop barriers - creating cell divisions in the hall, cells containing individual machine-classrooms - implementation of fire protection system (reconstruction) creating and restoring welding cells - creation of welding workplaces – cells in the workshop, with separate ventilation - replacement of air conditioning - replacement of heating systems - repair of water and sewer connections - implementation of fire protection	- reducing energy consumption - the building is in the school area but it is separate, with separate connections, which will allow future distribution - floor concrete is weathered for decades and requires general overhaul - aluminum windows and panels - welding workplaces that are not harmful to health	- project documentation required - induced secondary investments in infrastructure, landscaping, communications - necessity to move the machines - need to replace the floor concrete - necessity to bring the air conditioning out of the premises of the building to ensure the supply of fresh preheated air
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<b>V. Other promotional materials</b>	100+ 50 = 150	promotional materials - for recruitment and presentation events at primary schools Marketing and promotion - marketing activities - web page - media promotion materials for the web - operation - other marketing activities		
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#### 4. Capacities for project implementation

Brief overview of realized projects:

Resource of funds / OP	Project title and focus	Amount requested (in EUR'000)	Ready status (none, draft, project documentation, submitted project ...)
ROP-1.1-2008/01	Thermal insulation of the Spojená škola buildings	1 095,300 €	After implementation
OPV-2009/1.1./05-SORO	Innovating education to a connected school	338,574 €	After implementation
OPV-2012/1.1/08-SORO	Spojená škola and its modernization	276,444 €	After implementation
IROP-P02-SC223-2016-14	Increasing the number of pupils of the Spojená škola, Ľ. Podjavorinskej in practical teaching	913,621 €	02/2019 až 08/2020

The amount of funds growth through implemented projects in the last 5 years: approx. 1700 thousand, + 913 thousand in implementation



A brief overview of prepared, new projects, state of readiness:

The amount of funding requested through new / prepared projects:

Cooperation with organizations and institutions, project partners: Pupils' professional practice at about 40 region employers, Dual education

Additional information on the proposed project, annexes: will be added

## The Project Proposition /the Project Concept

**Project Applicant/Name of school/:** Secondary Professional School, Jarmočná 108, Stará Ľubovňa

### 1. Basic Information about Project

**The name of the project:** *SECONDARY PROFESSIONAL SCHOOL AS A PROVIDER OF MODERN PROFESSIONAL EDUCATION AND TRAINING IN GASTRONOMY, CRAFTS AND SERVICES IN TOURISM*

**Sector(Economic sector):** SERVICES - Gastronomy, Services and Crafts, Tourism

**The subregion and place of project's implementation:** POPRAD, , Stará Ľubovňa District, The town Stará Ľubovňa, Prešov Region

### Partners:

- Centro Arte, o.z.
- Business subjects

**Contact person:**





## 2. The Aim and Objectives of the Project

### The Main Aim:

The main aim is to remodel the school into institution, which reflects the needs of the 21<sup>st</sup> century by means of establishing a qualified and excellent centre for services in Gastronomy, Crafts and Tourism, which would provide a professional education and preparation, which is of high quality, effective and especially relevant in term of needs in the labour market. Thereby the Secondary school can become an inspiration for other schools in our region and its surrounding and it can also become an institution opened for its present and future partners.

### **Specific Aims of the Project:**

The main aim should be achieved by means of particular activities – specific aims:

- a) Construction works, reconstruction of the interior and exterior and completion of school's infrastructure which contributes to energy efficiency, it also contributes to preparing for a climate change and improves an environment and atmosphere at school
- b) Acquiring and modernization of material and technical equipment for classrooms, workrooms and another premises of the school, whereby our school can respond to the needs of the employers, innovations and future trends
- c) Extension and enhancement of competences, professional skills and knowledge of human capital by means of the further training of (pedagogic employees at school, teachers, trade-masters, but also the school management ), what can strengthen already existed capacities and it can also strengthen the quality and innovation of teaching and education
- d) Educational programs, activities and courses of continuing education or another fields ( staff training of different companies, mobility programs for students and teachers )
- e) Proposition of educational program for the field of study Gastronomy, designed for experimental examination

- f) Development of school by searching for models of co- operation and creating partnerships with employers, schools, educational institutions and with other partners within the frame of our region and but also abroad
- g) Creating of Social enterprise in Lomnička

### 3. Brief Description of Project

#### Initial situation and reasoning of necessity of project's realization:

The school was established in September 1949. In the first period of its existence (until the year 2005) the school focused on the needs of the agricultural sector. In the second period (since 2006 to present) the school has changed the focus to the services in hotel keeping, tourism, services and crafts in the field of building industry. The school pays a big attention to education of Roma students at affiliated workplace in Lomnička and also to education of the integrated students with special educational needs. Thanks to the obtained financial grant from the structural foundations of the European Union the school has a very good material supply. The school perceives the space for innovation and improvement of material supply in order to respond of material supply to the norms, to the needs of employers, expectations of students and to the fast evolution trends in the labour market related to services - gastronomy, tourism and crafts. The school closely cooperates with employers in our region, District authorities, and Civic authorities and with another organizations, but we are also aware of potential for development of different form of cooperation towards the new employers, another secondary schools or to partners in our region, in Slovakia and abroad.

#### Expected results and contribution of the project:

The school is focused on the field of services, specifically on tourism, gastronomy and crafts. Regarding to the tourism and gastronomy, the region of Stará Ľubovňa offers many natural, historical and cultural sights (such as Ľubovniansky castle, Open Air Museum), which is connected with the wide offer of services, which are facilitated by caterers, restaurants and by accommodation facilities in our region and which are also connected with various events (e.g. fairs, events at the castle or Hubert's feast. The school cooperates with employers in these fields and also covers the support during the organization and in

the course of events. Within the frame of gastronomy, the school could obtain the interest of the students, future employers and partners – also through the medium of facilities and equipment – by the focus on modern trends (such as experimental cooking, using of local products, vegetarian and vegans catering, 3D printing of meals or effective catering). Beneficial for it is also the plan for creating of proposition for educational program in the field of Gastronomy, which the school wants to verify experimentally. Except the new facilities, the school would be also more attractive thanks to the reconstruction of the outer premises which is the best place for social events, focused not only on gastronomy but also on extracurricular activities and as a place for meetings.

Within the frame of tourism the students will be better prepared and more experienced for later occupation in our region thanks to the training working places created at school (e.g. training reception with appropriate software).

Our region lacks the professions such as carpenters or bricklayers and so people working in these professions are very demanded in the labour market.

There is a plan at our school to establish a Social enterprise within the affiliated workplace in Lomnička. The aim is to solve the one the problems within the Roma community (problem with commutation and school attendance), for verifying of existence the school as a subject of social economy, for support of industry in the region (wood - cutting and forestry) and for general improvement of cooperation with local people involved. The social enterprise is connected with the fields of studies which are offered by our school (e.g. carpenter).

The improvement of material and technical equipment also requires the changes and improvements in the frame of competences of human resources and also in organization of educational activities by means of school educational programs.

The proposed project is in conformity with strategic and conceptual documents on the national, regional and local level.

Our school wants to create the conditions for securing educational ways with different level of qualification, to offer an obtaining of professional skills in the frame of continuing education by means of variable network of different trainings and fields of study with the focus on services in Hotel industry, Tourism, Gastronomy and also in Crafts in the field of construction. In this way the school can become an opened institution, which improves the quality of student's preparation in all parts of educational process so that it helps them to open the door to Slovak and European labour market and it becomes an institution which is able to meet the needs of student's legal representatives, the students themselves and also employers of the region.

**The proposed integrated project includes following partial specific projects:**

P1 – Increase of energy efficiency in the buildings by the means of reconstruction and remodeling of the buildings already existed

P2 – Adaptation of the school premises to expected climate changes with the aim of improvement the exterior of the school

P3 – Development of the competences and capacities of employees with the aim of human resources improvement

P4 – Modern material supply and equipment for classrooms, workrooms and another school premises.

P5 – School development by the extension of cooperation and by creating partnerships with educational and other institutions

P6 – Social enterprise Lomnička.

**Summary of individual partial projects of the integrated project**

Name of partial project	Source of financial resources/OP + another sources	Estimated sums of money required	The aim of project, main activities, expected results
<b>Increase of energy efficiency of buildings by the means of reconstruction and remodeling of buildings already existed</b>	IROP + OP KŽP + another sources*	575 000 EUR Capital expenditure	The project is focused on decreasing of operating costs and for improving conditions of already existed building objects.
<b>Adaptation of the school area to expected climate changes with the aim of improving the exterior of the school</b>	IROP + another sources *	536 000 EUR Capital and current expenditures	
<b>Development of competences and capacities of employees with the aim</b>	OP IŽ + another sources	200 000 EUR Current expenditures	

<b>of human resources improvement</b>			
<b>Modern material supply and equipment for classrooms, workrooms and another school premises</b>	IROP, OP VaI	704 000 EUR Capital and current expenditures	
<b>School development by the extension of cooperation and by creating partnerships with educational and another institutions.</b>	Interreg, Erasmus +	100 000 EUR Current expenditures	
<b>Social enterprise Lomnička.</b>	OP IZ + another sources	460 000 EUR Capital and current expenditures	

The proposed investments/project activities:

<b>Type of investment/ activity (specify by category):</b>	<b>An estimate of the costs (in thous. EUR)</b>	<b>Brief description of the investment</b>	<b>Other additional information to a description of the investment</b>	<b>Notes</b>
<b>(i) study program/study materials</b>				
<b>(ii) education / professional development of educators,</b>		Analysis and identification of target group needs, proposal and pilot verification of a prepared educational program, education of teachers of theoretical and professional subjects, trade-masters		Low motivation for further education, insufficient offer in the frame of continuing education

		and other professional workers - through trainings, conferences, courses etc., so that their qualifications correspond to new MT equipment, innovative training programs or new services		
<b>(iii) equipment and facilities,</b>		Gradual retrofitting of all classrooms, workrooms, workplaces and other school premises with modern teaching technology and devices (equipment and facilities) .They are designated by the normative rules and standards for different fields of study and trainings, by the needs of employers, etc.		Part of the material and technical equipment does not correspond to the current requirements of employers, the necessary equipment and facilities are absented in some of the classrooms, workrooms and workplaces. Pupils should have some experience and skills with technologies, equipment and facilities used by perspective employers, before starting of employment.
<b>(iv) buildings, premises</b>		Increasing of energy efficiency and building effectiveness, remodeling and completing of public spaces. Revitalization of fruit and vegetable gardens, construction of parking lot.		Minimizing the consumption of energy providing the operation of the school premises, adaptation to the climate changes, a source of raw materials for practical education and events,

				support of availability and mobility
(v) other		<p>Creating of conditions for starting of social enterprise, crating of business plan and schedule, creating of conditions for maintaining the operation of social enterprise, the elaboration of strategic documents for support of the cooperation and for improvement of the marketing, communication and provision of information. Network project in the fields of study Hotel academy, Cook, Innkeeper. Establish cooperation and partnerships with schools and employers in Slovakia and abroad for the purpose of exchanging information, knowledge, trainings, continuing education, exchange stays of students, knowing each other, common interest and sports activities, etc.</p>		<p>The support of training programs as Carpenter, Forestry and social enterprise responds to a premature completion of proffesional education for financial reasons. In the framework of the project for support of cooperation is also expected the development and creation of partnerships (contracted), courses and training activities, various forms of practical education and joint projects. In this way, the school will become more interconnected with several people or companies, and its development opportunities will expand.</p>

#### 4. Capacities for project implementation



Brief overview of implemented projects:

- **Operational program IROP**

**Name of the project: Increasing the number of pupils of the Secondary Professional School, Jarmočná 108 Stará Ľubovňa in practical education (Hotel Academy, Bricklayer)**

Implementation: in the process

Total project expenditure: **905 947,50 EUR**

The main aim of the project, entitled "Increasing the number of pupils of the Secondary Professional School, Jarmočná 108 in Stará Ľubovňa in practical education" is to improve the material and technical equipment, improvement of the spatial conditions of Secondary Professional School and increase of energy efficiency with the aim of increasing the quality of professional education and training, practical skills of pupils and increasing the quality of continuing education provided for the labour market needs.

- **Operational program Education**

**Name of the project: Let's help the students to implement better in the labour market - Programme Erasmus+**

Implementation: **10/2017**

Total project expenditure: **28 291 EUR**

The main aim of the project is to allow 10 students from Hotel academy study field to take part in a professional internship at hotels in the United Kingdom in Portsmouth.

- **Operational program Education**

**Name of the project: "Hotel industry and gastronomy of the 3rd millennium"**

Implementation: **2/2014 - 12/2015**

Total project expenditure: **905 947,50 EUR**

The aim of the project: innovation of curriculum content in selected subjects of the study department of the Hotel academy, education of pedagogical staff and creation of teaching materials and provision of new material equipment.

- **Operational program Education**

**Name of the project: "Let's help pupils from MRK stand on their own feet"**

Implementation: **9/2013 - 2/2015**

Total project expenditure: **156 408,35 EUR**





The aim of the project: innovation of curriculum content in selected subjects, education of pedagogical staff at work with Roma pupils and creation of teaching materials and provision of new material equipment for the Affiliated workplace.

- **Regional Operational Program**

**Name of the project: Energy efficiency, expansion, reconstruction and modernization of buildings at SOŠ Jarmočná 108, Stará Ľubovňa**

Implementation: **7/2010 - 8/2012**

Total project expenditure: **1 256 563,24 EUR**

The aim of the project: reducing of the energy intensity of school building operation and improving the technical condition of buildings, as well as improving the conditions for the provision of educational services (barrier-free school, catering equipment extension - building of training classrooms, reconstruction of premises for professional classroom and cloakrooms, gym roof painting, reconstruction of local school roads, thermal insulation of buildings, replacement of windows, gasification - separate boiler rooms in buildings).

The amount of funds raised through implemented projects over the past 5 years: 2 629 600 EUR

A brief overview of prepared, new projects, state of readiness:

Source of financial resources/OP	Name of the project and its aim	Required sum of money (in th. EUR)	State of readiness (none, concept, project documentation, submitted project.....)
Program Erasmus+;	Professional practice "At the neighbors"	31 944 EUR	In the approval process

The amount of the requested funds through the new/developed projects: 2 090 352,00 EUR

Cooperation with organizations and institutions, partners of the project/projects:

Employers (current):

- Norbert Frank – EUROINF TATRY – Salaš u FRANKA
- BGV Enviro, s.r.o., (Nestville)
- Mary Ann Gurega - Penzión Gurmen
- SLK-Catering, s.r.o.



- Spa Vyšné Ružbachy, a.s.
- The forests of the town of Podolíneč s.r.o.

Employers (in future):

- Penzión TENISCENTRUM
- Chata Pieniny, s.r.o
- Recreational facilities Dunajec, Červený Kláštor
- SOREA spol s.r.o
- Military Forests and Estates of the Slovak Republic

Schools (exchange stays):

- 1) Cooperation with gastronomy school SOŠ and SOU Polička, Czech Republic
- 2) Zespół Szkół Nr 2 im. Sybiraków, ul. Podhalańs

