

CONDEREFF
Interreg Europe



European Union
European Regional
Development Fund

ACTION PLAN

**Construction & demolition waste management policies for
improved resource efficiency**

RRAPK

REGIONÁLNÍ ROZVOJOVÁ AGENTURA
PARDUBICKÉHO KRAJE

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1 Introduction

Project: CONDEREFF. (*Construction & demolition waste management policies for improved resource efficiency*)

Partner organization: Regional Development Agency of the Pardubice Region (Czech Republic)

Other partner organizations:

- 1) Polytechnic University of Valencia (Spain)
- 2) Office of the Regional Government of Styria (Austria)
- 3) Institute of Structural Policy and Economic Development (Germany)
- 4) Auvergne-Rhône Alpes Energy Environment Agency (France)
- 5) Italian national agency for new technologies, energy and sustainable economic development (Italy)
- 6) Lazio Region (Italy)
- 7) Region of Thessaly (Greece)

Country: Czech Republic

Region: NUTS2 Northeast

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1.1 Project CONDEREFF

Project CONDEREFF (*Construction & demolition waste management policies for improved resource efficiency*) is co-financed by the European Union under the Interreg Europe Program and RRA PK is one of its partners. The project is focused on the current practice of

construction and demolition waste management, storage and other possible uses. The project will improve the usability of construction and demolition waste and support the demand for such waste as reusable building material. A total of 8 organizations from 7 EU countries are involved in the project. In addition to the RRA PK, other members of the consortium are also partner organizations from Spain, Austria, Germany, Greece, France and Italy.

Within the CONDEREFF project, there is a consortium of partners, within which everyone cooperates, and there is a mutual exchange of experiences, procedures and solutions in the field of reuse of construction and demolition waste.

The aim of the project is to support the integration of the provisions of the Protocol on the Management of Construction and Demolition Waste into territorial policies, to support the strengthening of the transition of European economies to higher resource efficiency and to the cyclical economy model. To this end, the project also supports the development of a policy framework and capacity building of public administrations in areas such as: regulation of waste management in construction and demolition waste (integrated plans, hazardous waste, permits), public procurement, landfill restrictions, recycling, public sector involvement and raising public awareness of the possibilities for recycling construction and demolition waste. The project will increase the ability of public authorities to amend the draft directives on the framework directives on the recycling of construction and demolition waste. Last but not least, the project draws on the experience of partner countries through the adoption of technological and managerial innovations in the use of construction and demolition waste.

1.2 RRA PK

The Regional Development Agency of the Pardubice Region (RRA PK) is a non-governmental, non-political and independent association of legal entities, which has been supporting the development of the Pardubice Region since 1999. To achieve this goal, it works closely with the public administration of the region, especially with local governments. The task of RRA PK is to represent the interests of local government in regional institutions, to coordinate problems connected with the development of towns and municipalities and to cooperate with central state bodies and regional administration. It focuses its activities on the development of human resources and education, transport infrastructure, the environment, tourism or the restoration of cultural monuments. The mission of RRA PK is to support the

development of the Pardubice Region and to provide support and advice to members and other entities in the field of strategic planning, grant titles and other areas related to regional development.

1.3 Construction and demolition waste in the Czech Republic

According to Act No. 541/2020 Coll., on waste, construction and demolition waste is waste generated during construction and demolition activities. Over half of the total production of all waste in the Czech Republic is construction and demolition waste. However, the vast majority of this waste is currently re-used. Construction and demolition waste is an important source of secondary raw materials.

Producers of waste are obliged to follow procedures for disposal of demolished building materials intended for re-use, using by-products and construction and demolition waste during the disposal of the construction, construction or maintenance of the construction to ensure the highest possible rate of their reuse and recycling. The Waste Management Plan of the Czech Republic for the period 2015 - 2024 sets a target for construction and demolition waste: To increase the rate of preparation for re-use and the recycling rate of construction and demolition waste and other types of their material use, including backfill, to at least 70% by weight by 2020, in which the materials are replaced in accordance with the valid legislation by construction and demolition waste of the other category, with the exception of naturally occurring materials listed in the Waste Catalogue under catalogue number 17 05 04 (soil and stones).

The target is based on Directive 2008/98 / EC of the European Parliament and of the Council on waste.

2 Policy instrument

Policy instrument, influencing the action plan:

Investing in a growth and jobs agenda	YES / NO
European Territorial Cooperation Program	YES / NO

Other regional policy development instruments	YES / NO
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2.1 Operational Programme Environment (OPE) 2014-2020

Policy Instrument, that supposed to be affected by output of CONDEREFF Project, is Operational Programme Environment (OPE) 2014 – 2020. Due to ending programming period and ending calls in this OP, is this Action plan focusing on following programming period 2021 – 2027 (see chapter 2.3). In ongoing period 2014 – 2020 was not possible to affect this policy instrument, but only to use calls, that were provided in this programme.

One of the EU 's goals in the 2014-2020 programming period was the management of waste and material flows. Specifically, it was Objective 2 - To increase the share of material and energy utilization of waste. This topic is followed in the Czech Republic by support under the Operational Program Environment, specifically Priority Axis 3 - waste and material flows, environmental burdens and risks. Within this priority axis, financial contributions were provided mainly to public entities for the construction and modernization of facilities for the collection, sorting and treatment of waste, reclamation of old landfills, modernization of collection yards, facilities for hazardous waste management, etc.

2.2 Waste Management Plan of the Pardubice Region 2016 – 2025

One of the policy instruments, that were affected by CONDEREFF project, is Waste Management Plan of the Pardubice Region.

Waste Management Plan of the Pardubice Region is related to waste management of all kinds of waste, including C&D Waste. It is a 2016 – 2025 period plan. The purpose of the regional waste management plan is to determine the optimal way to achieve compliance with the requirements of Czech and EU legislation in the field of waste management in the region and the associated economic impacts. The plan is in accordance with obligatory part of Waste Management of Czech Republic, which was declared by Government Regulation no. 352/2014 Sb.

The plan shows a fluctuating trend in the production of construction and demolition waste. Given that, the production of this waste is dependent on investment activities in the region, the fluctuating trend is not unusual. From the amount of waste that is disposed of in the region, it is clear that a significant part of this waste is transferred for further processing outside the region.

According to the plan, the Pardubice Region follows these principles:

- To regulate the generation and management of construction and demolition waste with regard to the protection of human health and the environment.
- Maximum use of treated construction and demolition waste and recycled materials from construction and demolition waste.

The regional Development Agency of the Pardubice Region, as a non-government association long-termly supports development of Pardubice Region and in collaboration with Pardubice Region also works on realisation of CONDEREFF project. RRA PK had an opportunity to comment and consult this plan with The Department of the Environment and Agriculture of Pardubice Region, which developed Waste management plan itself. This document, as well as Waste management Plan of all other regions, are further submitted to Ministry of the Environment of Czech Republic and are used as basis for preparation of programming document of political instrument, The Operational Programme Environment 2021 – 2027. Thanks to this fact, Policy instrument was affected. Pardubice Region would like to follow up on its activity by launching calls for municipalities and entrepreneurs, that will be focusing on support of Construction and Demolition waste management in the next Programming period.

2.3 Operational Programme Environment (OPE) 2021-2027

The aim of The Operational Programme Environment 2021 – 2027 is to protect and ensure a quality environment for living, transition to circular economy and support of efficient use of resources, limitation of negative impacts of human activities on the environment and climate, mitigation of impacts of climate changes and contribution to solve problems related to the environment on European and global level.

Currently, the OPE Program Document 2021 - 2027 is being prepared, where within 2. priority, 2. A Priority other than technical help, 2.A.1 Environment, 2.A.1.1 the specific objective 1.5, the support will be focused on the transition to a circular economy. This specific objective

will be supported in particular by activities aimed at the transition to the principles of the circular economy and the improvement of the application of the waste hierarchy, through investments, in particular in the prevention, re-use and recycling of waste. The main target groups will be municipalities and entities doing business in the field of waste management or food management, regardless of their legal form.

In the context of the prepared OPE programming document for the period 2021 - 2027, RRA PK had the opportunity to directly influence this document with its revisions and comments. In cooperation with the Department of Environment and Agriculture of the Pardubice Region, RRA PK revised the OPE programming document for the period 2021-2027, where revisions and comments were made on three specific objectives: 1.3, 1.4 and 1.5. Under this influence, RRA PK has used its experiences from CONDEREFF project.

According to the information of Ministry of Environment, first calls are expected to be announced in spring of 2022.

2.4 Regional Innovation Strategy of the Pardubice Region

Another strategic document that has an impact on policy instruments is the Regional Innovation Strategy of the Pardubice Region (hereinafter RIS3 Strategy), which is the main conceptual document of the Pardubice Region in the field of science, research, development, innovation and entrepreneurship. The first version of the document was approved by the Regional Assembly of the Pardubice Region in 2014, followed by an update of the document in June 2019. RRA PK participated in this update.

With the existence of the RIS3 strategy, the Pardubice Region fulfilled the preliminary requirements of the European Union for drawing European funds in the field of research and innovation. The update was triggered by the requirement to incorporate some new topics into the regional RIS3 strategies in connection with the preparation of the 2021-2027 programming period and related basic conditions. The update of this document was prepared by the core team responsible for the implementation of the Smart Accelerator of Pardubice Region II project, whose partner and implementer with financial contribution is RRA PK.

The topic of circular economy is also implemented into Regional Innovation Strategy of Pardubice Region thank to the CONDEREFF project. In this strategic document, the project

CONDEREFF is listed as an example of good practice within the internationalization activities of the Pardubice Region.

RIS3 is not a financial instrument, but the link between the RIS3 strategy and the use of subsidies from the OP PIK and the OPEI is significant. Within the framework of the implementation of the Smart Accelerator project of the Pardubice Region (thanks to which the RIS3 strategy was updated) and its subsequent continuation through the follow-up project Smart Accelerator of the Pardubice Region II, innovation vouchers are provided to SMEs and research organizations engaged in innovation. Currently, support in the form of innovation vouchers for municipalities in the Pardubice Region is being prepared to provide a contribution to the implementation of projects from the Modernization Fund (State Environmental Fund) aimed at energy-saving measures in municipalities and companies. Within the framework of the vouchers, we can expect the adoption of a voucher that will deal with innovations in the field of circular economy, including the reuse of grey water.

The RIS3 strategy itself is a key document for drawing subsidies across the operational programmes, where the applicant must demonstrate compliance with this strategy in the implementation of a specific project.

3 Action plan and its goals

Municipalities and entrepreneurs should have a suitable environment for their activities, which enables them to develop their ability to contribute to economic growth and to maintain and strengthen social cohesion. It is also important to perceive the need for a circular economy within the activities of these entities. These are mainly stakeholders and project partners who are interested in the use of construction and demolition waste.

The goal of the Pardubice Region is to increase the rate of preparation for re-use and the rate of recycling of construction and demolition waste and other types of material use to at least 70% by weight by 2025, including backfills where materials are replaced in accordance with applicable legislation by construction and demolition waste category "other", with the exception of naturally occurring materials listed in the Waste Catalogue under catalogue number 17 05 04 (soil and stones).

Based on this analysis, we decided to start providing consultation, support and information through training and education in the field of environmental projects.

The following action plan aims at:

- Environmental projects support.
- Education and awareness.

3.1 Action plan activities

3.1.1 Action 1 - Support for municipalities and enterprises in the elaboration of projects focused on waste management

1) Relevance to the Project

Municipalities of Pardubice Region, and small and middle size companies are conservative in legal frame of using subsidies and due to its workload, they are not using grants and subsidies efficiently for their activity and development. Activities described below should help to change the current situation. With to the ending programming period, increasing interest in activities is expected, as soon as conditions of new programming period are known and finalized and new funding resources will be available.

Across Consortium of project partners good practices are shared, such as project WREP (Waste Recycling Project), or National Waste Reporting Mapping Tool, which inspired RRAPK. These and other actions will be supported in the following programming period 2021 – 2027 from The Operational programme environment, which content was influenced by above mentioned documents (chapter 2.3) Waste management of Pardubice region (chapter 2.2) and RIS3 (chapter 2.4), RRA PK participated in the preparation of both these documents.

2) Action

As part of this action, the RRA PK will focus on supporting municipalities and entrepreneurs who will be interested in implementing projects financed from the Operational Program Environment 2021 - 2027, the Rural Development Program and the planned operational program Operational Program Technology and Applications for Competitiveness. RRA PK will

at most assist municipalities and entrepreneurs in obtaining funding for their projects, plans and development. Everything will depend on the current possibilities that the subsidy policy will allow. These will be projects that will be supporting the purpose of circular economy and, above all, will support the management of construction and demolition waste (construction and modernization of collection yards, support of waste recycling and collection systems, construction and modernization of facilities for material recovery of waste, chemical recycling of waste, etc.).

Provided services:

- Help with finding calls that correspond to actual needs of a particular company / municipality (annunciation of first calls is being planned in spring of 2022)
- Project plan formulation and consultation.
- Project application processing, including mandatory annexes, implementation of tenders.
- Administration of projects in the implementation phase.

Financial resources within the subsidy funds for potential project plans go to the following areas:

- OP PIK (OPTAK) Energy savings
- PRV (SZIF)
- OPE

3) Stakeholders and partners

Pardubice region

A group of stakeholders involved in the implementation of the CONDEREFF project in the Pardubice Region (municipalities in Pardubice Region, small and medium size companies, which will be eligible applicants of Operational programme Environment calls, eventually Operational Programme Technologies and Applications for competitiveness.

RRA PK

4) Timeline

2021 - 2023

5) Costs

100 000 CZK/year (0,2 part time per year)

6) Financing

RRA PK

7) Indicators:

1 Application submitted annually containing the topic mentioned above

1 Consultations per month

1 Promotion at events for the professional public

3.1.2 Action 2 – Education, awareness, counselling

1) Relevance to the Project

In terms of quantity, the largest part of construction and demolition waste consists of mineral-based waste, i.e., residues of concrete, bricks and aggregates, roof tiles and ceramics. In the Waste Catalogue (Decree No. 93/2016 Coll.), These are wastes from subgroups 1701 Concrete, bricks, tiles and ceramics, as well as 1709 Other construction and demolition wastes. How to deal with this large volume of waste, which - if it is not polluted with hazardous substances - has usable material potential - as efficiently as possible.

One of the basic things that is necessary to understand is the importance of education. Another action that will be implemented within the action plan will focus on raising awareness and education in the field of construction and demolition waste management.

Across the consortium of partners, good practice relevant to the education and enlightenment are shared, such as *Catalogue of waste to be reused in construction or National ratios guide for construction and demolition waste in Spain*. We believe, that extension of awareness of these problematics in municipalities and/or on high schools in Pardubice region could have affect to improve this policy instrument.

2) Action

As part of this action, RRA PK will focus on supporting education and awareness in the field of environmental projects with an emphasis on projects related to the recycling of construction and demolition waste. It will provide consultations and lectures at municipalities in the Pardubice region, where the emphasis will be on spreading awareness in the efficient and careful use of natural resources, remedying the negative impacts of human activities on the environment, mitigating and adapting to climate change and effective prevention. Also new

Operation Programme Environment 2021 – 2027 will be presented and there will be shown possibilities of this policy instrument and so its improvement has taken place.

Primary activity will be seminars/workshops, that will take place in partner towns of RRA PK. This action will be primarily for potential applicant of Operational Programme Environment 2021 – 2027, therefore municipalities and will be focused on public infrastructure. Applicant will be informed about possibilities, which specific programme (policy instrument) provides, and will be informed how make grant request, what to focus on and getting ready for apply flawless grant request. Result of this activity are Grant applicants, who are ready to apply from policy instrument Operation Programme Environment 2021 – 2027, implement their projects that correspond with circular economy principles.

As a second part of activity 2 will be provided education at chosen primary schools in Pardubice Region. It will be based on education of Construction & Demolition waste management. Target group for workshops will be students and teachers at primary schools. One workshop will last approximately 45 - 90 minutes. Thematic workshops can be modified to individual demands according to the target group. They will consist of a theoretical part, a practical part and a discussion. Students will learn about the important role of water and tips on how to treat this natural resource.

From the implementation of the project, RRA PK already has some experience with a number of experts in the field, who can manage the agenda. For example, the EVVO system (Environmental Education, Training and Awareness), which leads to the acquisition of knowledge, skills and habits, the formation of a value hierarchy and lifestyle needed to protect the environment in terms of ensuring sustainable development locally and globally.

3) Stakeholders and partners

Primary and secondary schools in the Pardubice region. (The University of Pardubice).

Municipalities in Pardubice region (Municipalities in Pardubice region, small and medium size companies, who will be eligible applicant in accordance with calls from Operational programme Environment, eventually Operational Programme Technologies and Applications for competitiveness).

4) Timeline

2021 – 2023.

5) Costs

50 000 CZK/year (0,1 part time per year)

6) Financing

RRA PK, possible grants

1) Indicators:

2 Events organized per year (possibility of online organization)

2 Summary reports from the organized event

Date	08.09.2021
Name	Mgr. Klára Štefančová, RRA PK director
Signature	Organization stamp 

Date	08.09.2021
Name	Miroslav Krčil, DiS. member of the Regional Council in charge of rural areas, environment and agriculture
Signature	Organization stamp 