EXECUTIVE SUMMARY - Tourist routes of mining attractions

„Implementation plans for two mining look-out towers”

No: 4.3.6
TABLE OF CONTENT

1 IDENTIFICATION DATA........................................................................................................... 3
  1.1 Client .............................................................................................................................. 3
  1.2 Sub-contractor ............................................................................................................... 3
  1.3 Summary ......................................................................................................................... 3
2 DESCRIPTION OF THE INITIAL SITUATION ..................................................................... 4
3 TASKS OF THE IMPLEMENTATION PLANS ....................................................................... 5
4 PROCEDURE WORK ............................................................................................................ 6
  4.1 Construction design process ......................................................................................... 6
  4.2 Methods used ............................................................................................................... 6
  4.3 Sources and background materials .............................................................................. 6
5 CONCLUSION AND RESULTING SOLUTION ..................................................................... 7
  5.1 Description of selected sites for erection of the mining look-out towers .................... 7
  5.2 The potential of projects .............................................................................................. 8
  5.3 Justification of proposals .............................................................................................. 9
  5.4 Design proposal of the look-out tower on the Smolnicka dump ................................ 9
  5.5 Design proposal of the Bernard look-out tower ......................................................... 12
  5.6 Links to the long-term document about the extraction of coal .................................. 14
  5.7 Problems to solve ........................................................................................................ 14
6 EVALUATION ......................................................................................................................... 15
  6.1 The fulfilment of project objectives ............................................................................ 15
  6.2 Next step to be taken ................................................................................................... 15
  6.3 Transnational relevance ............................................................................................... 16
1 IDENTIFICATION DATA

1.1 Client
Title: Microregion Sokolov-East
Legal form: Association of Municipalities
Address: Lazenska 114, 357 41 Kralovske Porici, Czech Republic
ID No.: 709 48 755
Statutory representative: Ing. Ivan Stefan, Council Chairman

1.2 Sub-contractor
Name: Ing. Arch. Peter Martinek
Address: Uvalska 604 / 2, 360 09 Karlovy Vary, Czech Republic
Phone: +420 353 585 188
Fax: +420 353 562 231
E-mail: atelier.martinek@seznam.cz
ID No.: 113 63 444

1.3 Summary
Documentation of "Implementation plans for two mining look-out towers" (hereafter only implementation plans) resolves two observation towers as significant objects in the attractive tourist centres of the Sokolov region.

The first look-out tower, built by conversion of still active mining stacker¹ on the Smolnicka dump (see picture in chapter 5.4), will be part of an extensive landscape, educational, sports and recreational complex White Water by the Town Chodov. It will be along with other mining attractions and modern activities important destination in the region.

The Bernard look-out tower (see pictures in chapter 5.5) will be part of the tourist, recreational and sports complex around the restored grange Bernard, which is already a major tourist destination in these days. The tower will be built on one of three main sites where the documentary about a long-term evolution of mining area surface will be filmed in upcoming decades.

Implementation plans include following:
- text part incl. energy connection, preliminary calculation of investment costs in current prices in EUR and involvement of both look-out towers in mining tourist routes,
- 1:100 scale drawings, layouts of all floors and all views,
- pre-feasibility study according to the rules of Regional Operational Programme NUTS II Northwest (for each look-out tower separately).

¹ Mining stacker is a mining machine which pours and stores overburden from the mine to the dump (in our case from the mine George to the Smolnicka dump).
2 DESCRIPTION OF THE INITIAL SITUATION

The processing of implementation plans closely build on parallel elaborated Urban Study on Development of Sokolov Region (Masterplan). Attractive, realistic and usable projects were identified within masterplan elaboration, especially during discussions with communities. Known and predictable conditions were particularly considered during selecting the ones to be elaborated in more detail for implementation. Among these conditions belong:

a) economic - if it is currently possible to ensure project investment and to operate it in a long term with a balanced or slightly subsidized budget,

b) technical - if the technical conditions of selected area comply with requirements of construction and do not make unrealistic financial demands on adjustments,

c) municipal and management - if a public entity or a private subject, which will ensure the implementation of project, is appointed in time,

d) ownership - taking into account the property rights to the land under buildings and associated building objects,

e) social - reflecting the overall impact of project implementation on particular segment of social life in the immediate and wider surroundings and the overall benefits for the region.
3 TASKS OF THE IMPLEMENTATION PLANS

The main objectives of conducted investigation were:

a) To establish a procedure for preparation and realization of selected constructions, i.e. two look-out towers.

b) To prepare a complete start-up documentation for project promoter.

c) By means of processed proposals to inform the professional and lay public about intentions in defined territory for near future and find as much support for their realization as possible.

d) By means of processed proposals to address economically and politically significant parties and call them to active cooperation in implementation of both constructions.
4 PROCEDURE WORK

4.1 Construction design process

After consideration of presumed time for preparation and required extent of documentation for both projects, the contractor invited other special professions into the project team – machinery specialists, statics, electronics engineer and economist. The contractor specified required range of both projects so that the resulting documentations fulfil desired purposes, e.g. their full usability in a building permit process according to Building and Mining Acts.

The proposal for Bernard Tower is made in two size and shape variations. The final result is a significant difference in total investment costs (see chapter 5.5) which provides a space for decision making of project promoter. The final design therefore depends on the amount of secured funds.

During processing of implementations plans proposals for both look-out towers were consulted with representatives of Chodov and Kralovske Porici municipalities, which are potential project promoters.

4.2 Methods used

Documentation for both constructions is based on the implementing regulations of Building Act. Relevant sections of the prescribed type of documentation are used in proposals.

Initial architectural and building design is verified by the basic static calculation of the base constructions and supporting steel constructions. The latest authorized calculation methods in the normative requirements of EU were used for static calculations. Standard architectural and technical design is complemented by a spatial display and drawing of constructions into the photos.

4.3 Sources and background materials

The maps provided by Chodov and Kralovske Porici municipalities (cadastral maps, digital copies of local land use plans and orthogonal photographic maps of the area) were used as a starting material for processing of both projects. Other useful documents were planimetry and altimetry of the territory and technical documentation of the mining stacker, all provided by the mining company Sokolovska uhelna a.s. and the engineering company Sokolovske strojirny a.s.

Other documents as European technical standards, Euro codes, technical data on materials used, spatial analytical materials of municipalities and materials provided municipalities with extended competence were also used. The designer cooperated with the mining company specialists and other professional geological companies to obtain the basic geological and geotechnical information about the subsoil under future constructions. Information from other regional and urban studies was also used for deciding on the towers location. These documentations have been loaned by Chodov and Kralovske Porici.

Provided documents were supplemented by own field research with detailed photographic documentation and study of literature and archival documents relating to the historic and current mining of brown coal in Sokolov region.
5 CONCLUSION AND RESULTING SOLUTION

5.1 Description of selected sites for erection of the mining look-out towers

The selected area for location of the tower – stacker (see picture below) is on the Smolnicka dump, where the stacker will be still working for several years. The area is located on the south terrace, which is the oldest and geologically most stable place of the whole dump. Nowadays there is a rail track for trains on the paved stabilized surface, which brings new material to be poured. Entrance to the terrace is possible now by a new-built service road that runs along the eastern shore of White Water Lake and which is used for servicing of the area and also provides the entrance for pedestrians and cyclists. The selected area of the dump is not yet reclaimed completely. A provisional natural succession of natural species is running on the large part of the area.

The satellite picture showing the future location of the tower - stacker

The area for the Bernard Tower (see picture below) is located on open space near traffic intersection southwest of restored grange Bernard. The new local land use plan of Kralovske Porici defines this place as mixed un-built territory, which means that it is possible to place this type of construction there including the necessary servicing communication.

This place was chosen also with regard to difficult terrain and geological conditions in the neighbourhood. The vast majority of suitable open spaces is undermined, or is burdened by some other way. The selected site is on the original un-poured land, according to available data it is not directly undermined and not burdened by any underground services. It is located just inside the mining area, but behind the binding extraction line.

The selected site meets all predetermined criteria. From the selected location there is an open view into the large part of active mining area from Kralovske Porici to Lomnice.
The satellite picture showing the future location of the Bernard tower

5.2 The potential of projects

The tower – stacker on the Smolnicka dump

The tower – stacker on the Smolnicka dump as a modified mining machine will commemorate one of the major chapters of human activity history in this region for a long time after mining termination. At the same time it will serve as an attractive look-out tower with a very broad view of still active open cast mine and other parts Sokolov and Karlovy Vary region. When there is a good visibility, the view from the tower encompasses an area larger than 650 km$^2$ on the horizon from Doupov Mountains over Protected Landscape Area Slavkov Forest towards Cheb (Eger) over the river Eger valley.

The look-out tower will be part of an attractive tourist and recreational complex of projects and activities near the town Chodov situated around the White Water Lake. The whole complex will be used not only as a major recreational area for Chodov, but also as a broader base for Karlovy Vary and Sokolov and their surroundings. By means of this mining attraction a new destination will be created. It will support the return of people to the nature, which is undergoing its reclamation right now. The tourist attractiveness results not only from the specificity of mining machine itself, but also from the offered view. It is a view of original landscape in the north with preserved Ore Mountains Forests, the “Moon” industrial landscape of the damp and landscape which is undergoing its re-birth during reclamation (that is not easy very often). The look-out tower will also offer a specific comparison of mining area scale, original landscape scale and man scale itself.
The Bernard Tower (the place of long-term document production)

The new look-out tower near restored grange Bernard is ideologically understood as a reminder of the historical period of deep brown coal mining in this part of Sokolov coal basin. All original mining towers, other construction and machinery monuments of deep mining have been already removed in this part of coalfield.

The convenient height of the tower and its position near the active mining area in the direction from Kralovske Porici to Lomnice give observers an excellent opportunity to familiarize with one of the most important human activities in the region and to monitor the way of mining in long term. They will be able to see the global impact on the overall character of the environment and subsequently the rebirth of new landscape. There are very few places in Europe where we could learn about such a specific and extensive human activity in landscape from such a close proximity.

Long-term documentary about coal mining and the subsequent revitalization of the countryside

Both towers at opposite ends of the area are united by the opportunity for a third part of the project, which is a long-term documentary about the mining of brown coal during the following decades until the final extraction, and about the return of entire territory into a cultural landscape. The film and photographic pictures will be acquired from both look-out tower and some other adapted sites.

5.3 Justification of proposals

The proposals to be solved and implemented with regard to the mining process and which can fulfil the mission of nature and tourist attraction in a relatively short time were selected from the long list of future projects in Sokolov region. The main reasons for look-out towers selection were:

a) The functional service life of the mining stacker on the Smolnicka damp is estimated up until 2015 - 2016. If any re-use of this giant machine is not ensured, it will be most probably dismantled. This is the last operating mining stacker in the Sokolov coalfield.

b) Each tower will be located in place where other tourist and recreational activities are or will be situated. They will become a part of resorts which are involved in attractive mining tourist routes. The tower-stacker will be part of a vast landscape and recreational sports complex White Water near Chodov and Bernard Tower will be part of the tourist and recreational sports complex around the restored grange Bernard.

c) In a short time both towers will simultaneously provide solid and positionally suitable sites for a long-term document about mining and subsequent revitalization of the landscape.

5.4 Design proposal of the look-out tower on the Smolnicka dump

The place where the look-out tower will be located (see chapter 5.1) is easily accessible for pedestrians, cyclists and cars. Surrounding of the tower is made of a plateau which is raised approximately 26 m above the surface of the water reservoir. The tower height will be 30.4 m.
The primary objective from an architectural point of view is to create a distinctive element with unspoiled monumentality, which is naturally implied from the very dimension of the machine. Using the stacker as a mining attraction in the form of look-out tower requires preservation of its character and the resulting readability, but not necessarily its full authenticity.

The proposal (see the picture below) preserves the sanding truck and the main elements of the construction as well as parts of the chassis, main towers, “un-loader” with a counterweight, the system of linkage and selected communication elements (footbridges, staircases, ramps and platforms).

**The tower - stacker on the Smolnicka dump, the perspective drawing**

The new bearable foundation of the tower with the option to maintain the required bearing capacity during its service life is created under the rail body. The whole object will be mechanically secured against movement on rails. Spatial stability of the tower will be secured against wind effects and dynamic effects caused by operation by means of fixation into the chassis and into the base construction. To reduce the effects of the wind the tower will be set in the direction of prevailing winds in the area.

The original constructions will be complemented by new boarding ramps, inner staircase, viewing platforms and walkways at several observation levels.

The tower will be illuminated to allow possible overnight tours. The solid lower part and frame construction will be illuminated during the scenic lighting. That would create a significant night dominant of surrounding area. A camera system with connection to the Police of Czech Republic will be installed to ensure the safety control.
Paved and grassed surface around the tower will complement its installation. They will be adjusted and equipped with suitable mobiliary, planted in green areas and accompanying information boards will be installed.

The tables below show the estimated annual costs for operation and maintenance and estimated construction costs. For detailed budget of the investment costs see the full version of documentation.

**Estimation of the annual costs for operation and maintenance of the tower-stacker**

<table>
<thead>
<tr>
<th>Estimated costs</th>
<th>EUR</th>
</tr>
</thead>
<tbody>
<tr>
<td>Electric energy for lighting</td>
<td>1.250,-</td>
</tr>
<tr>
<td>Waste collection, treatment of green and residential areas</td>
<td>625,-</td>
</tr>
<tr>
<td>Control and revision costs</td>
<td>417,-</td>
</tr>
<tr>
<td>Maintenance of mobiliary and parterre</td>
<td>625,-</td>
</tr>
<tr>
<td>Estimated wage costs of servicing (accumulated work with other activities)</td>
<td>1.042,-</td>
</tr>
<tr>
<td>Annual share of refinishing an interval of approximately 10 years</td>
<td>9.167,-</td>
</tr>
<tr>
<td><strong>Total (without VAT)</strong></td>
<td><strong>13.125,-</strong></td>
</tr>
</tbody>
</table>

**Construction costs of the tower-stacker – recapitulation of building objects (BO)**

<table>
<thead>
<tr>
<th>No.</th>
<th>Item</th>
<th>Unit</th>
<th>Acreage</th>
<th>Unite price in EUR</th>
<th>Total in EUR</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Engineering services, technical and author supervision of construction</td>
<td></td>
<td></td>
<td>4.950,-</td>
<td>4.950,-</td>
</tr>
<tr>
<td>2</td>
<td>Project documentations</td>
<td></td>
<td></td>
<td>30.668,-</td>
<td>30.668,-</td>
</tr>
<tr>
<td>3</td>
<td>Dismantling</td>
<td></td>
<td></td>
<td>67.208,-</td>
<td>67.208,-</td>
</tr>
<tr>
<td>4</td>
<td>New steel constructions</td>
<td></td>
<td></td>
<td>148.750,-</td>
<td>148.750,-</td>
</tr>
<tr>
<td>5</td>
<td>Electrical installations incl. supply</td>
<td></td>
<td></td>
<td>31.334,-</td>
<td>31.334,-</td>
</tr>
<tr>
<td>6</td>
<td>Repairs and painting</td>
<td></td>
<td></td>
<td>136.250,-</td>
<td>136.250,-</td>
</tr>
<tr>
<td>7</td>
<td>Mechanical and electronic documentation</td>
<td></td>
<td></td>
<td>4.750,-</td>
<td>4.750,-</td>
</tr>
<tr>
<td>8</td>
<td>Site preparation, settlement under the railway track body</td>
<td>m²</td>
<td>350</td>
<td>9,-</td>
<td>3.150,-</td>
</tr>
<tr>
<td>9</td>
<td>Assembly and disassembly of railway track</td>
<td>m</td>
<td>200</td>
<td>99,-</td>
<td>19.800,-</td>
</tr>
<tr>
<td>10</td>
<td>Mounting of permanent rail route – station of the tower incl. establishment</td>
<td>m</td>
<td>140</td>
<td>452,-</td>
<td>63.280,-</td>
</tr>
<tr>
<td>11</td>
<td>Installation of mobiliary elements</td>
<td></td>
<td></td>
<td>2.000,-</td>
<td>2.000,-</td>
</tr>
<tr>
<td>12</td>
<td>Clean terrain adjustments</td>
<td>m²</td>
<td>20</td>
<td>50,-</td>
<td>1.000,-</td>
</tr>
<tr>
<td>13</td>
<td>Park designing, grass seeding</td>
<td>m²</td>
<td>200</td>
<td>7,50</td>
<td>1.500,-</td>
</tr>
<tr>
<td>14</td>
<td>Planting of trees and bushes</td>
<td>pc</td>
<td>15</td>
<td>208,-</td>
<td>3.120,-</td>
</tr>
<tr>
<td>15</td>
<td>Communication and paved areas, paving stone from the quarry</td>
<td>m²</td>
<td>200</td>
<td>68,-</td>
<td>13.600,-</td>
</tr>
<tr>
<td>16</td>
<td>Communications and paved areas, parking mineral concrete</td>
<td>m²</td>
<td>300</td>
<td>37,-</td>
<td>11.100,-</td>
</tr>
<tr>
<td>17</td>
<td>Comm. and paved surfaces, mineral concrete</td>
<td>m²</td>
<td>600</td>
<td>33,-</td>
<td>19.800,-</td>
</tr>
<tr>
<td>18</td>
<td>Other finishing works</td>
<td></td>
<td></td>
<td>3.333,-</td>
<td>3.333,-</td>
</tr>
<tr>
<td>19</td>
<td>Electronic connection incl. ground works</td>
<td>m</td>
<td>500</td>
<td>19,-</td>
<td>9.500,-</td>
</tr>
<tr>
<td><strong>Total (without VAT)</strong></td>
<td><strong>575.093,-</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
5.5  Design proposal of the Bernard look-out tower

The construction design is developed in two options differing from each other by architectural design and financial demands. The preparation of two options allows choosing the direction of follow-up preparation according to the amount of available funds. At the same time it will be possible to adjust the chosen option in the future according to specific requirements that may occur during the preparation of the construction.

Option A – the basic tower is designed as inclined with support towards the open cast mine (see picture below). The legs-spread shape of the tower construction and support structures evokes the visual impression of mining towers which were situated in the area in the past. Option A is higher (25 m) than option B (19 m) and is more financially demanding.

The perspective drawing of the Bernard tower – option A

Option B - a shaped-sober solution of the tower in the form of watch-tower with triangular floor plan which evokes the old fortified settlement watch-towers (see picture below). This tower is significantly simpler in construction, lower (19 m) and cheaper compared to the previous version.
The perspective drawing of the Bernard tower – option B

The Bernard Tower options A and B - 3D pictures
The main material for both options is steel in pure open shapes and profiles. The proposed shapes of towers (triangle and square) should inform visitors and observers that the tower is not a renewed monument, or a replica of the historical mine work, but a brand new object with memories of the old times. Contemporary expression of tower will be supported by supplementary materials and especially by colours.

Other necessary works are part of the construction, i.e. connection to the roads, access for service vehicles and emergency parking. The tower will be firstly illuminated internally for safety reasons and secondly it will be illuminated by outdoor scenic lighting as a solitary landscape element. The construction will be connected to low voltage electrical distribution systems, brought from the grange Bernard. The permanent road lighting is not considered.

The tower will be open to the public during the day, on demand in the evening or possibly during night hours. We assume the object management to be carried out by municipality through its own or contacted organization, preferably the one that already manages the grange Bernard. Entrance to the tower will be at your own risk without a guide. The entrance will be standard protected. There will not be any special systems against unauthorized entry. Specific rules and instructions dealing with tower operation will be within the competence of operator.

The table below shows the estimated investment costs. For detailed budget of investment costs see the full version of documentation.

**Estimation of investment costs of the Bernard look-out tower**

<table>
<thead>
<tr>
<th>Estimated costs</th>
<th>Option A in EUR</th>
<th>Option B in EUR</th>
</tr>
</thead>
<tbody>
<tr>
<td>BO 01 – Watch tower</td>
<td>227,949,-</td>
<td>129,755,-</td>
</tr>
<tr>
<td>BO 02 – Communication and paved surfaces</td>
<td>66,435,-</td>
<td>66,435,-</td>
</tr>
<tr>
<td>BO 03 – Electronic connection</td>
<td>7,933,-</td>
<td>8,022,-</td>
</tr>
<tr>
<td><strong>Total (without VAT)</strong></td>
<td><strong>302,317,-</strong></td>
<td><strong>204,212,-</strong></td>
</tr>
</tbody>
</table>

5.6 Links to the long-term document about the extraction of coal

Acceleration of the Bernard Tower construction is important in relation to the project of long-term documentary about mining in Sokolov coalfield in the upcoming decades. One of the key places where the document will be made is just the look-out tower position. Meanwhile the document could be realized either from the field or a small makeshift wooden platform that would have to be built.

5.7 Problems to solve

a) In the next 4 - 5 years particular technical, economic, operational and social conditions for the stacker preservation on the Smolnicka dump and its meaningful function under new conditions have to be ensured.

b) For the placement of Bernard Tower into its location it is necessary to complete and release new local land use plan of Kralovske Porici. Until then, there is a room for the complete preparation of the construction.
6 EVALUATION

6.1 The fulfilment of project objectives

The preparation of construction proposals for two look-out towers is a basic comprehensive document, which can followers continuously build on.

Documentation of both towers is processed in the form of detailed proposal including the calculation of financial costs. The text part of the documentation can be used without editing in follow-up project documentation of desired level, which is needed for building permit application. It would only be necessary to add the administrative and data information into the text part for discussion with government authorities and the building authority. Constructional-technical data and all operational data needed for comprehensive assessment of the construction have been already included in the draft.

The drawing part can be fully taken over. Only modification of identification labels and sorting of attachments according to the Decree requirements will be necessary.

6.2 Next step to be taken

The look-out tower on the Smolnica dump:

a) The initial step towards the realization is to arrange new ownership relations to the mining stacker after pouring ending. Based on the agreed way of the property compensation the stacker will be transferred to another entity. New owner will take over competences associated with the project preparation and conversion implementation. In this phase of preparation we assume the town Chodov to be the new owner.

b) Considerable financial resources will be required for direct financing of the construction. It is necessary to propose the way to obtain funds sufficiently in advance, for instance in the form of foundation, public benefit organization or other forms of non-profit organizations so that funds could be gradually obtained from various sources within the Czech Republic and EU.

c) For placement of the tower it is will be essential to obtain the approval from the landowner.

d) An access road to the tower from White Water Lake will be made within recultivation in advance.

Organization of the Bernard Tower project:

a) Since it is a completely new construction, the basic task is to determine the project promoter and future owner of the construction. We assume the municipality Kralovske Porici to take both roles as the tower is situated in its cadastre.

b) Financial resources will be required for direct financing of the construction. It is necessary to propose the way to obtain funds sufficiently in advance.

c) For placement of the tower it is will be necessary to obtain the approval from the landowner.
Related objects and conditional investments:

a) Realization of the Bernard Tower is closely related to the restoration of paved road along the former railway route. The project preparation for this repair is completed. During processing of this documentation it was discussed with government authorities and the landowner. A new access road to the tower is designed.

6.3 Transnational relevance

By means of close cooperation with other ReSource partners, which means mainly discussions during both regular Work Group Cultural Potentials meetings, which are held within Progress Workshops of ReSource project every 6 months, and optional additional meetings among partners, we were able to gain very important and useful remarks on the topic of mining attractions and tourist routes.

Microregion Sokolov-East had the opportunity to see and visit similar look-out towers in partners regions, i.e. F60 in Lichterfelde (PP2 IBA) and look-out tower of Oelsnitz/Erzgebirge (PP1 District of Zwickau). These attractions highly inspired the representatives of Microregion to create a similar mining attraction in Sokolov region.

We can say that without such projects like ReSource there most probably wouldn’t be any look-out tower in Sokolov region. The old mining stacker would be disassembled and recycled without any future use after the mining termination.

Altogether 5 documentations focused on mining attractions integration into tourist routes are being elaborated as ReSource outputs: by PP1 District of Zwickau, Economic Region of Chemnitz-Zwickau (Germany), PP3 Educational Institution of Employers Association Saxony-Anhalt (Germany), PP8 Local Self-Government of Salgótarján (Hungary), PP9 Regional Development Centre Zagorje (Slovenia) and Microregion Sokolov-East.

The comparison of different approaches and results will be one of the main aims of the Thematic WG Cultural Potentials Report, which will be elaborated by Cultural Potentials WG Leader for Cultural Potentials PP5 Styrian Iron Route Association (Austria) in cooperation with PP8 Salgótarján.

Microregion Sokolov-East will stay in close contact with ReSource project partners for follow-up cooperation and next steps needed to implement the proposed ideas in the best way.

Within WG Cultural Potentials many other outputs are being prepared besides these documentations, e.g. tourist utilisation of mining railways or seminars for mining tourist guides. These outputs can serve as a valuable source of knowledge and experience in the time Microregion Sokolov-East prepares to implement the proposed investments.

On the other hand, the methodology, the approach and results developed in this documentation are transferable and can be used as a guide for any other mining region which would like to carry out similar project.

Complete version of the plan is delivered in Czech and Executive Summary in both Czech and English language. Documents will be accessible electronically on ReSource web page: www.resource-ce.eu and physically at the Microregion Sokolov-East seat (Town Hall of Kralovske Porici, Czech Republic).