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Airport in Rybnik - Gotartowice
concept of modernization and development along with
the development of industrial areas in Rybnik - Kłokocin - SUMMARY.

Imprint

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Information about the CENTRAL EUROPE programme

CENTRAL EUROPE is a European Union programme that encourages cooperation among the countries of Central Europe to improve innovation, accessibility and the environment and to enhance the competitiveness and attractiveness of their cities and regions.

CENTRAL EUROPE invests 231 million EUR to provide funding to transnational cooperation projects involving public and private organisations from Austria, the Czech Republic, Germany, Hungary, Italy, Poland, the Slovak Republic and Slovenia.

The programme is financed by the European Regional Development Fund (ERDF) and it runs from 2007 to 2013. Interested partnerships are invited to propose their projects following public calls for proposals, which will be widely publicised.

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1 Scope of the study

The study is a conceptual design of the airport expansion in Rybnik - Gotartowice and the development of adjacent land and conceptual design of industrial areas development in Rybnik - Kłokocin. The development of the conceptual design and cost analysis of the investment is aimed at preparing grounds for a feasibility study for the whole of the investment.

It's planned to prepare of the area development project for foreign investors. It is assumed that both areas have in the future constitute a coherent area of economic activity. Airport in Rybnik - Gotartowice will serve an additional passenger flights service retaining existing recreation - sports functions.

In the study was also conducted an analysis of possible communication links of the airport area in Rybnik - Gotartowice and the industrial area in Rybnik - Kłokocin, in order to create a coherent area of economic activity.

Airport Expansion in Rybnik - Gotartowice study includes:

- Expansion of airport in Rybnik - Gotartowice include: □ the location of the runway and the necessary infrastructure to enable support for passenger flights while the airport feature recreation - training - sports will remain unchanged. The basis for determining airport parameters is dimension of the plane - airport reference code 1A. The study covers the construction of: the runway, taxiways, roads and maneuvering apron of the airport. It also describes the issues and presented graphically airport reference code increase to 3A;
- construction of airport infrastructure: Arrival / departure room, a flight control tower,
- construction of the intersection with ul. Żorska - provincial road No. 935,
- internal road construction along. Żorska street - pathways, car parks, drainage and external lighting,
- rebuilding petrol station.

Spatial development plan of industrial areas In Rybnik - Kłokocin includes:

- technical infrastructure development
- division into plots of investment area, including a system of internal roads
- construction of a new road junction for industrial area

Analysis of new road links involves the comparison of variant options.

2 Preparation's basis

General information for designing is pre-agreed jointly with the investor, ie Upper Silesian Agency for Enterprises Restructuring and the City Office of Rybnik, Aero Club and the authorities (UM Rybnik meeting of 11.01.2010). For further consideration of design adopted Saratoga II aircraft TG. Technical parameters of the plane: a length of 8.5 m, Wingspan 11.0 m, max weight 1640 kg on the fly, run-552 m, 518 m roll, the length of the DS. 780 m, track width of the main landing gear outer 4,5 m, starting weight of an aircraft not exceeding 3000 kg. On the basis of the required dimensions of the plane defined airport reference code 1A.

3 Description of the current status

The city:

The city is located in south-western part of Silesia, around Valley Raciborsko - Auschwitz Rybnik Plateau at an altitude of 210-290 meters above sea level, Nacyną River (a tributary of Rudy) and Ruda (a tributary of the Oder). The northern part of town is the Upland Golejowska. The city is located on the south-west of Katowice. Areas subject to development are located in the eastern part of the city in the districts of Rybnik: Kłokocin and Gotartowice. Rybnik climate is mild, on what impact, vicinity of the Odra river, forests, and above all a short distance from the exit of the Moravian Gate, where the flowing mass of warm, humid air. Precipitation ranges from 600 - 900 mm per year. The city lies within the zone of weak and very weak winds. In 42% of the winds blow from the west and south-west, bringing gusts of warm air masses from western Europe and the Mediterranean (data provided by IMGW). Average annual wind speed - 2.2 m / s.

Airport areas:

The area to the airport (according to the Local Development Plan) stretch south from the Żorska street, in the current ROW Rybnik Aero Club Airport areas. The majority are areas of the existing airport are with grass surface and cultivated fields, meadows, wasteland. Existing buildings are administrative buildings – offices, hangars and warehouses belonging to the ROW Rybnik Aero Club.

In the area of the airport is also building - a small single-family floor. In the area there is a slight incline. Rain water flowing by gravity toward the site of an existing open ditch, located in the south of the airport.

Industrial areas:

Industrial areas (according to the Local Development Plan) stretch in the district Kłokocin between. Kłokocińska street, planned national road Pszczyna - Racibórz (designed BSiPK Ltd.), and the railway line. Currently, these areas are meadows and wasteland.

In the local development plan are marked with symbols:

P - devoted to productive activities, bases, warehouses

UC - devoted to productive activities and the location of the retail sales area exceeding 2000m²

4 Expansion of airport in Rybnik – Gotartowice and industrial area management

The proposed expansion of the airport option involves the situating new facilities along Żorska Street according to existing buildings belonging to the Aero Club. In the north of the airport are located aeroclub areas, operation areas of the airport with the buildings and investment areas identified for development for commercial service airports. Objects are located along an internal road parallel to the Żorska street.

Modernization of petrol station and airport's road system aims to perform commercial activities for fueling cars and planes. For this purpose, it should be ensured access to the station from the Żorska street and from the runway. In the southern part of the land the airport is located in a green box ups that will be used by a aero club for sports activities - training.

The variant analysis and the projected cost of investment, the option preferred by the designer is an option does not require the construction of a new road junction and does not need to manage traffic on residential land. Due to the distance from the junction of the industrial, about 900m, it is not a large enough distance that was necessary for the construction of an additional node.

Construction of an additional node "Kłokociński"; can be realized by lowering the technical quality of the Regional Roads GP-class on G-class. However, the lower class roads, and thereby increase the availability could reduce the attractiveness of this new route, which idea was to provide high-speed design and rapid journey.

5 Further steps:

Airport and industrial areas:

- to agree on an airport conceptual design with the Civil Aviation Office,
- to obtain technical conditions necessary for bringing public utilities to industrial sites and airports,
- to execute a construction project and prepare tender documents,
- to obtain a construction permission.

Road Network development

- implementation and execution of traffic measurements, traffic forecasts for the selected option: extension of the road system, taking into account new traffic generators (airport, industrial zone, the node Gotartowicki)
- to obtain conditions of Provincial Road Administration in Katowice for the construction of the intersection of the Żorska street
- GDDKiA conditions in the case of assuming the construction of a new road junction at the Routes of Regional Road Racibórz – Pszczyna.
- preparation of feasibility study for selected expansion options for the road system
- implementation of the conceptual design with obtaining a decision on the environmental conditions for the selected variant of the road system extension. At this stage, to obtain the technical conditions for reconstruction and security of existing utilities interfere with the investment and some opinions. Execution of geotechnical diagnosis;
- preparation of executive project and tender documents for the expansion of the road system
- make a buyout of the land.

6 Complex study contents:

A. DESCRIPTIVE PART

1. Scope of the study
2. Preparation's basis
3. Description of the current status
4. The legal status of the airport and industrial areas
5. Expansion of airport in Rybnik – Gotartowice and industrial area management
6. Development of industrial area in Rybnik - Kłokocin
7. Analysis of scenarios for new road links
8. Projected investment costs
9. Conclusions
10. Necessary further stages of project preparation
11. Legal, investment, environmental solutions

B. GRAPHIC PART:

B1 - Planning

1. Spatial plan
1:3000

B2 - Airport

- | | |
|---|---------------|
| 2. Concept of airport areas modernization | 1:1000 |
| 3. Section through the area1-1 | 1:1000/1:2000 |
| 4. Diagram of the limiting surface
1:10000 | |
| 5. Airport buildings – ground floor view | 1:200 |
| 6. Airport buildings – roof view | 1:200 |
| 7. Airport buildings – sections | 1:200 |
| 8. Airport buildings – elevations | 1:200 |
| 9. Airport buildings – visualizations | |

B3 – industrial areas

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|---------------------------------|--------|
| 10. koncept of land development | 1:1000 |
|---------------------------------|--------|

B4 – road part

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| 11. Longitudinal profile of the runway – version 1 | 1:500/50 |
| 12. Longitudinal profile of the runway– version 2 | 1:500/50 |
| 13. Typical sections | 1: 50 |
| 14. The analyzed variants of new road links | 1:6000 |

7 Visualizations:



