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**ГЕОГРАФИЧЕСКИЕ НАУКИ  
В ОБЕСПЕЧЕНИИ СТРАТЕГИИ УСТОЙЧИВОГО РАЗВИТИЯ  
В УСЛОВИЯХ ГЛОБАЛИЗАЦИИ**

(к 100-летию со дня рождения  
профессора Н. Т. Романовского)

**GEOGRAPHICAL SCIENCES  
IN REALIZATION OF SUSTAINABLE DEVELOPMENT STRATEGY  
IN GLOBALIZING WORLD**

(to the 100th anniversary  
of Professor N. T. Romanovskij)

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Адресуется преподавателям, научным работникам, студентам и аспирантам вузов, сотрудникам органов управления.

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**REVITALIZATION OF FORMER INDUSTRIAL SPACE  
VERSUS SUSTAINABLE DEVELOPMENT –  
THE ‘PHOENIX DORTMUND’ PROJECT (RUHR AREA, GERMANY)**

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‘Phoenix Dortmund’ is a complex and multidirectional revitalization project implemented in the degraded part of the district Hörde of the city Dortmund in Ruhr Area in Germany. The project integrates activities in the field of the reconstruction of the natural environment of the Emscher river valley with the redevelopment of brownfield sites remaining after the iron and steel foundry Phoenix (previously Hermann). The aim of this project is to create a new attractive space for living, working and recreation, adjacent to the green river valley and lake.

The Ruhr area is one of the biggest post-industrial regions in Europe. Its industrial past was associated with the development of coal mining and iron and steel industries. Nowadays, after 50 years of restructuring the industry and revitalization of former industrial space this region is completely changed into a modern sustainably developed metropolitan area. Dortmund is located in the east-central part of the region and it is one of the oldest and biggest cities in Ruhr Metropolis. Hörde is a district in the south part of the city. It used to be an independent town (until the 1928), known from the steel production, which started here in 1841. After the closure of the steel mill in 2001 the problem of redevelopment of the degraded post-industrial area appeared.

The implementation of the project ‘Phoenix Dortmund’ started in 1998 and it still lasts. Revitalization of the area is carried out in 5 independent projects:

– PHOENIX WEST – is carried out in the west part of the degraded area, which is changed into the technology and services park with 15000 new work places in high-tech industries. One blast furnace is left here as a remnant of the heavy industrial past of the place. Some other halls and storages are also preserved and adapted to new purposes.

– PHOENIX SEE – is pursued in the east part of the degraded space, which is changed into residential and leisure area with the large water reservoir in the middle. Lake has ecological and recreational functions and it is also a storage reservoir. Around the lake there are hiking and cycling trails. Shores of the lake are being lined with high-quality housing, offices and service centers. There are no remnants of the industrial past left in this place apart from a Bessemer converter which stands as a statue on the so-called ‘Island of Culture’ near to the harbor.

– PHOENIX EMSCHER – relates to the Emscher river, which flows along the degraded area. As a consequence of industrialization this river was turned from unbridled into a straightened, open wastewater. According to the project the Emscher’s main course and tributaries is being restored to near-natural waterways. The new riverbed with wide terraces was created and there is a lot of greenery along the river.

– PHOENIX PARK – is a part of Emscher Landscape Park and it is created in the Emscher valley next to the technology and services park in Phoenix West. Here the nature is intertwined with elements of industrial buildings and among them there were led hiking and cycling trails. This park is also a part of the green belt around the city center of Dortmund.

– PHOENIX & HÖRDE – is a project of revitalization of the center of Hörde, which is located between the east and the west part of the post-industrial area. Because of such localization this place is going to be the integrating part of the whole space covered by the ‘Phoenix Dortmund’ project. In the future it will also be the service and shopping center for all south districts of Dortmund.

In addition, ‘Phoenix Dortmund’ is in line with two other projects: ‘New Emscher’ and ‘New Emscher Valley’, which are both pursued by the strategy of regional development: Emscher Landscape Park 2010, as well as the ‘Phoenix Dortmund’.

Revitalization of the degraded part of the Dortmund – Hörde is complex and multidirectional. Post-industrial space is changed in 5 main directions – into: high-tech industrial area, leisure and recreational area, residential area, service area, area of natural importance.

Implementation of the project resulted in morphological and functional changes of urban space in this part of town. Because of the direction and intensity of these changes, the study area is divided into two parts. The eastern part, Phoenix Ost, was completely transformed, both in morphological and functional way, in place of the foundry a large water reservoir was created, which is surrounded by recreational and residential objects. The western part, Phoenix West, was also transformed morphologically but to a lesser degree – there were preserved some elements of the former foundry building, which were adapted to new purposes, whereas the industrial function of this area was kept, however, other modern industries were located there.

In conclusion the project ‘Phoenix Dortmund’ may be treated as a model for revitalization of post-industrial degraded spaces. It is well planned and consequently pursued according to the principles of sustainable development. It is also consistent with the concept of the future development of Dortmund and Ruhr Metropolis and with other projects implemented in this region.