



# INDUSTRIAL TOURISM IN KRYVYI RIH (UKRAINE) - CONNECTION OF TIMES IN ONE PLACE



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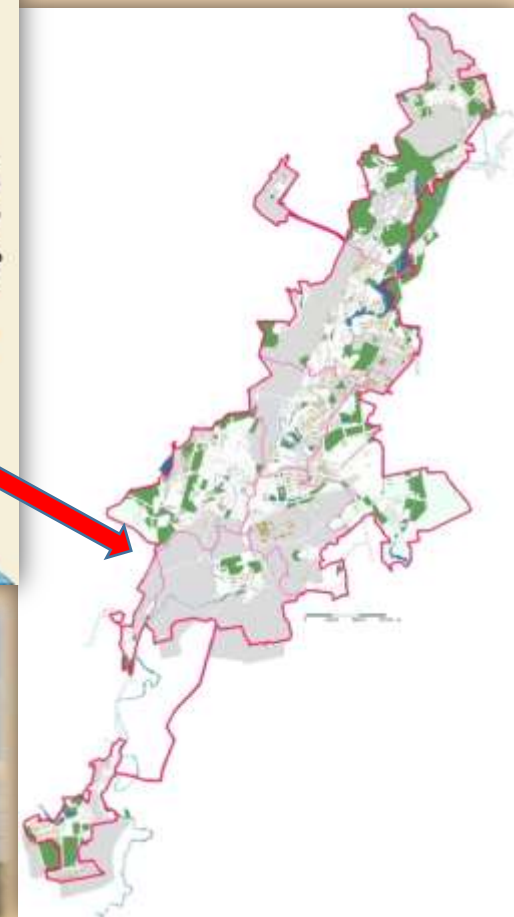
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KRYVYI  
RIH

**Kryvyi Rih** is a city in the central Ukraine. It is situated in Dnipropetrovsk Oblast at the confluence of the Inhulets and Saksahan rivers. The estimated population is 634,000 people.



# WHY KRYVYI RIH HAS ALL THE ADVANTAGES FOR THE DEVELOPMENT OF INDUSTRIAL TOURISM IN UKRAINE?

**more  
200**

**objects of industrial  
tourism are concentrated  
on the territory of the city**

- **45** operating mining iron ore mines, 8 of them are big
- **23** auxiliary and **14** suspended mines
- **41** open pits, **11** of them are giants and being used for iron ore mining
- **89** dumps
- **26** mining sinks and underground mining cavities
- **15** tailings
- **27** speleology objects – open mining cavities, open shafts of non-operating mines, drifts, staples, sinking wells and sinking bailers







*PJSC «ArcelorMittal Kryvyi Rih» -  
the largest Mining and Steel enterprise  
of Ukraine and Europe*







*Iron ore mines of Kryvyi Rih are  
the deepest mines in Europe*








d – 400-470 m

l – 3-6 km

S – 500-775 hectare

*The biggest and the deepest open pits  
in Europe*





**21 lakes in old and inactive open pits**



*Unique forms of artificial relief*



**Mining sinks**



**Kryvyi Rih Grand Canyon  
of Inhulets river**





*Industrial heritage objects*





# *Mines of Kryvyi Rih*



**Mine «Pervomajskaja»,  
1934**



**Mine «Eastern»,  
1958**

*Default mines*



**Mine «Central», 1908**





Mine «Southern»,  
1957



Mine  
«Ventylitsijna»,  
1979



Mine  
«Gigant-Glyboka»,  
1962

*Industrial heritage*



Mine «Artem-2»,  
1972





**Mine «Hvardiiska» is  
the deepest iron mine in Europe  
(deep is 1620 m)**

***Operating mines  
(built in 1950-1980 years)***



**Mine «Rodina», 1972**



**Mine «Artem-1», 1963**



*Open pits of Kryvyi Rih  
where iron ore is mined*



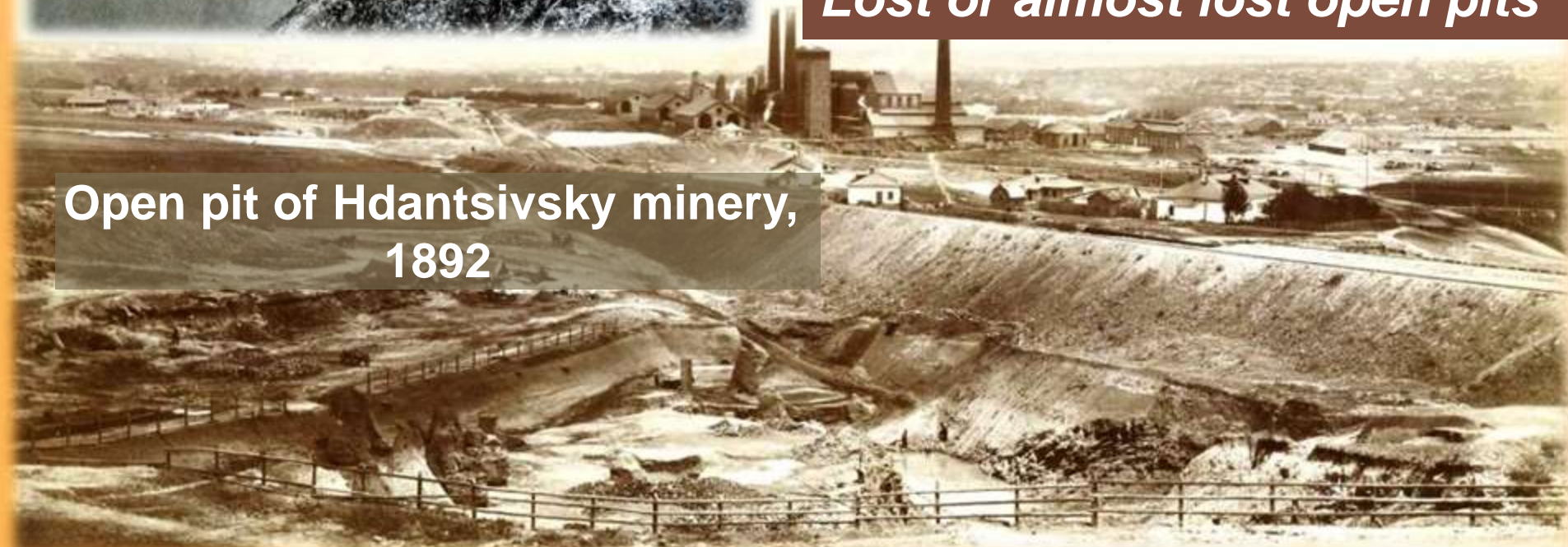
1881

**The first open pit of  
Saksagansky Minery, 1881**



*Lost or almost lost open pits*

**Open pit of Hdantsivsky minery,  
1892**






A photograph showing a large, deep open-pit mine. The pit is filled with a greenish-blue liquid, likely a tailing pond. The surrounding area is covered in dense green vegetation and trees. The sky is clear and blue.

**Open pits of Vizyrka minery  
1899-1972**

A photograph of a large open-pit mine with steep, rocky walls. The surrounding landscape is green and hilly. The sky is blue with some clouds.

**Open pits of Red Plate minery  
1889-1917**

***Industrial heritage***

A photograph of a large open-pit mine. The pit is filled with a greenish liquid. The surrounding area is covered in brown, rocky soil and vegetation. The sky is overcast.

**Open pit №1 of PJSC  
“ArcelorMittal of Kryvyi Rih”  
1959-1985**





Modern open pits on iron ore mining

*Operating open pits*



from 1953-1971 till now



# *Dumps of Kryvyi Rih with the rocks which do not*



*Industrial heritage*







Total square of 14 thousand hectares  
100-150 m high,  
from 1953 till now

*Modern dumps, which  
go on their growth*





# *Collapse over the cavities of mines*

- depth up to 250 m,
- total area of 3 thousand hectares
- time of origin is from the early 20th century
- are being formed in our time



**THERE ARE NO ANALOGUES  
OF SUCH SIZES IN EUROPE**



# *Industrial architecture of Kryvyi Rih*



**photos of 1899 year**

**View of Hdantsevsky  
iron foundry plant  
(built 1892, almost not saved)**



# Saved old industrial objects



*Industrial heritage*







Operating modern big enterprises of metallurgy



*Operating giant enterprises*





## ***Museums of industrial directions***



- museum of North Mining and Concentration Complex;
- museum of Central Mining and Concentration Complex;
- museum of Southern Mining and Concentration Complex;
- museum of Inhulets Mining and Concentration Complex;
- museum of history PJSC «ArcelorMittal Kryvyi Rih»;
- museum of history of the Kryvyi Rih Railway;
- museum of the enterprise «Kryvbasvybuhprom»;
- museum «Park of planes of the Soviet period»;
- museum of tram of Kryvyi Rih



## ***Establishment of skansens***

The first step in this direction was made in August 26, 2009 - the first in Ukraine "Museum of Mining Technology" was established. It comprises a great variety of industrial facilities of production. This museum is a unique thing for our country so as there are no similar projects among the mining and metallurgical complexes. Here you can see the excavator buckets, the mine locomotive, the bulldozer of the open pit, BelAZ vehicle, the crusher from the crushing plant, separator from the dressing plant and many other equipment representing the strength and power of Kryvyi Rih mining companies





## ***Target groups of museums visitors***

**all age groups of the population - children, students, pensioners and all interested persons. Museums are included in the excursion program. One of the tasks of museums is to conduct vocational guidance among schoolchildren and students, advertise various professions at enterprises.**

### ***Perspective***

- creation of a museum of mining;
- creation of the "Giant-Gluboka" mine-museum;
- creation of a skansen of metallurgical equipment by "ArcelorMittal Kryvyi Rih".





# *Industrial heritage and operating enterprises of Kryvyi Rih*

**As for today, in the city of Kryvyi Rih there are time parallels between the industrial heritage and industrial tourism to the operating enterprises. Here the situation is as follows:**

**Enterprises develop industrial tourism on their own territory. They allow tourist visiting to operating workshops and working facilities – open pits, factories, shops, dumps, training mine and descents to working mines for iron ore mining on the working horizons - 1350 m or -1390 m. This is what we made a major contribution to the development of industrial tourism. It is the modernity of industry.**





# *Leader in the number of tourists*

## **South Mining and Concentration Complex**

**2500** number of excursions

**32000** number of excursionists

**\*Since the 1<sup>st</sup> January 2014**





# *The project “My parents work for ArcelorMittal”*

**Project start on March 18, 2017**

**57**

**number of excursions**

**490**

**number of families**

**562**

**number of children**









# EXCURSION POTENTIAL OF KRYVYI RIH

## Active and proven sightseeing tours:

- ✓ 7 bus tours
- ✓ 12 combined (bus and pedestrian) tours
- ✓ 14 cycling tours
- ✓ 16 hiking trails
- ✓ 1 water cruise on the Kresivske water reservoir
- ✓ 2 diving routes on flooded open pits





# **EXCURSION POTENTIAL OF KRYVYI RIH**

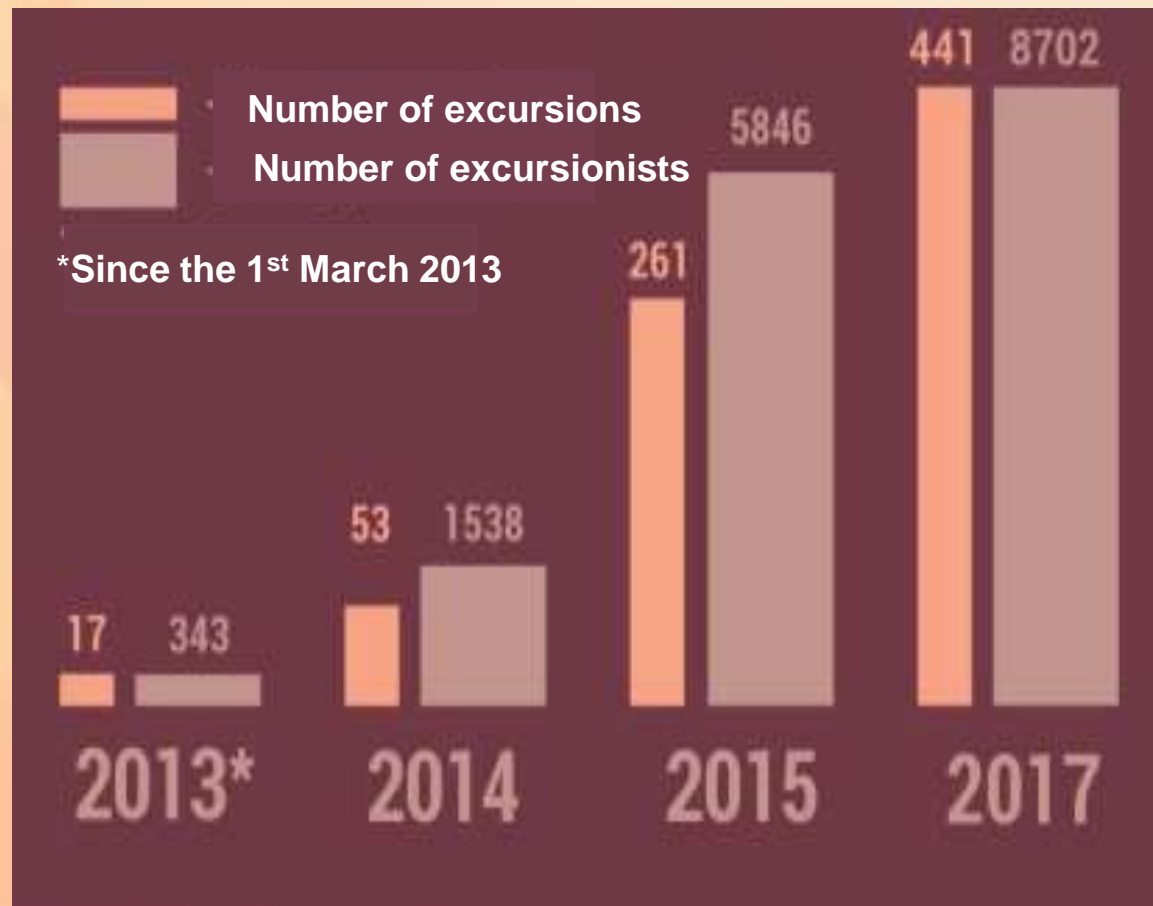
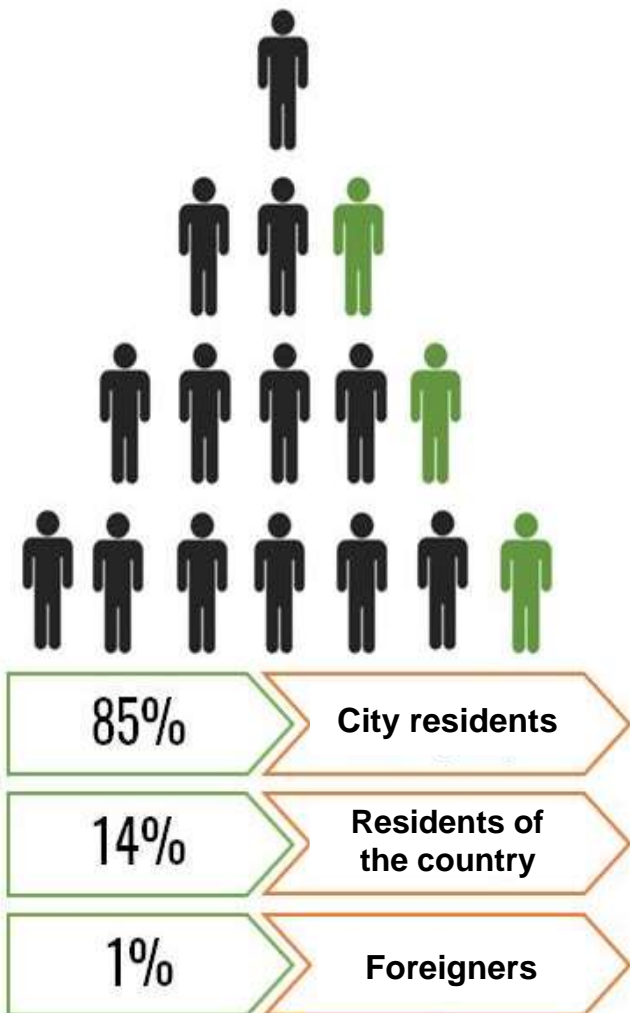
- ✓ **3 extreme routes**
- ✓ **3 night city tours (including the New Year's celebrating on the dump)**
- ✓ **1 route with a descent to the mine at a depth of 1350 meters**
- ✓ **4 water routes on the river  
Ingulets and Saksagan on kayaks**

**Excursion routes have industrial content and are held to the objects of industrial heritage and working enterprises**





# EXCURSIONS





## EXPECTED RESULTS

- ➔ **popularization of tourist objects among the inhabitants of Ukraine and Europe;**
- ➔ **growth of employment in tourism sector;**
- ➔ **creation of developed infrastructure of industrial tourism;**
- ➔ **carrying out of festivals of industrial culture;**
- ➔ **increase of incoming tourists**





## FURTHER STEPS



- ➡ **conducting information tours in order to attract tour operators to cooperation;**
- ➡ **expanding the range of thematic and complex excursions;**
- ➡ **expanding the scope of attractions in museums, skansens and operating enterprises;**
- ➡ **participation in tourist forums and exhibitions;**
- ➡ **entry of the city into international organizations ERIH and TICCIH;**
- ➡ **preparation of projects for the conversion of broken industrial objects into various institutions of the service sector;**
- ➡ **search for partners and sponsors, participation in grant projects**



# Route "INDUSTRIAL RING OF THE DNIPRO REGION"



main points



additional points

Kremenchuk



Kamianske

DNIPRO



KRYVYI RIH



ZAPORIZHZHYA



Nikopol

Energodar







**THANK YOU FOR ATTENTION!**  
**WELCOME TO UKRAINE AND KRYVYI RIH**  
**TO SEE RICH INDUSTRIAL HERITAGE AND**  
**TAKE PART IN ITS RESEARCH!**

