



# **OPI-TPP 2.0 SYSTEM**

EXPANSION OF THE SYSTEM FOR MANAGEMENT OF POST- MINING AREAS IN THE SILESIAN VOIVODESHIP

August 13, 2022









#### **January 2020 - March 2023**

## **PARTNERSHIP**







#### **FUNDING**

The European Regional Development Fund under The Regional Programme of the Silesian Voivodeship for 2014-2020.

Measure 2.1 Support for the development of digital public services.











# THE AIM OF THE PROJECT

Development and implementation of a new e-service in the form of an open-access information system regarding post-mining areas in the Silesian Voivodeship.



#### **OPI-TPP 2.0 SYSTEM PROVIDES ACCESS TO:**

- catalogued information about post-industrial sites with a special focus on mining areas in the form of a database, GIS information layer, individual reports.
- catalogued documents in digital form (digital repository) → scans of documents, photographs, drawings, 3D models.
- tools for assessing the attractiveness of post-mining areas (investment, ecosystem, cost):
  - attributes in the database.
  - separate tool for individual analysis.
- tool for benchmarking of post-mining areas.



# **PROJECT TIMELINE**

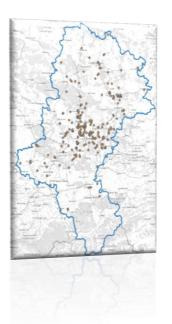
2020

2021











2022



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- site data collection,
- digitalization of documents,
- meetings with stakeholders,
- database construction,
- valorisation of post-mining areas,
- developing an information system.



#### **DATABASES - CURRENT STATE**

# POST-MINING AREAS (OF HARD COAL)

- 334 post-mining areas,
- areas located within 26 districts,
- approx. 5 900 ha of areas
- site types: heaps, shafts, mine buildings, settling ponds, stockyards.

# POST-INDUSTRIAL AREAS (ACTIVITIES OTHER THAN COAL MINING)

- 290 post-industrial areas,
- areas located within 32 districts,
- approx. 4 000 ha of areas



Currently, the data from the databases are in the final stages of verification and completion by city and municipal offices and areas managers.

#### **COMPLETION OF THE DATABASE**

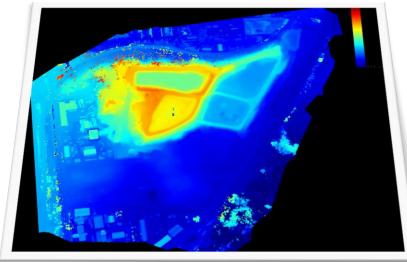


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photographs

3D models

thermal analyses



numerical land models



360° spherical views



orthophoto maps



### **ENVIRONMENTAL STUDIES**













#### THE DIGITAL REPOSITORY

#### **SCANS OF DOCUMENTS**

The main source is the documentation of closed mining plants provided by the State Mining Authority
 currently about 40 GB of data have been digitalized,

#### **PANORAMAS & PHOTOS**

- Updated 360º panorama for each site,
- 4-5 individual photographs for each site,

#### MAP COLLAGE FOR EACH AREA

- 1 map fom each area,
- up to 700 pictures in total.

#### **3D MODELS**

3D models for objects with different morphologies.

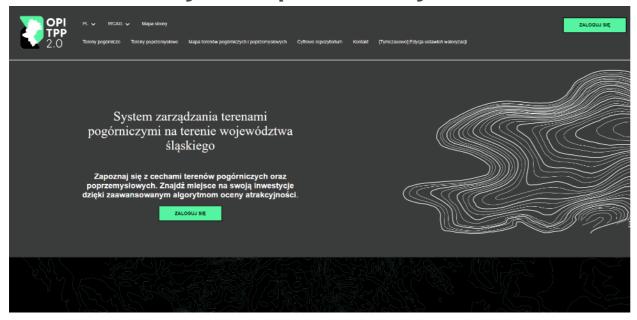




#### **INFORMATION SYSTEM**

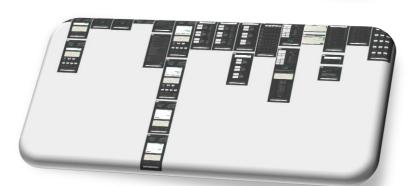
- inspired by e-commerce solutions,
- available in Polish and English,
- prepared for stationary and mobile devices,
- no geoportal elements,
- possibility of customization of services,
- intuitive and easy to use.

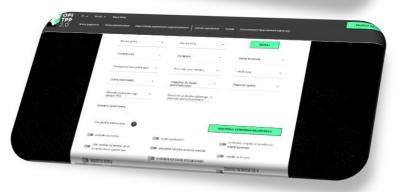
The information layer with data from OPI-TPP 2.0 database will be available in GIS systems published by WODGiK in Katowice















# THANK YOU FOR YOUR ATTENTION

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