

11–15 SEPTEMBER 2022 Warsaw, Poland Volunteering for the future – Geospatial excellence for a better living

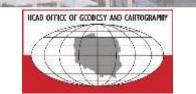
POLAND (GUGIK) IN THE FIELD OF DATA ACQUISITION

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Director of Geodesy, Cartography and GIS Department

**Head Office of Geodesy and Cartography** 









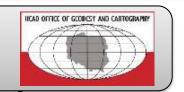




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**PROVIDING OF NATIONAL GEODETIC** & CARTOGRAPHIC **RESOURCE** 



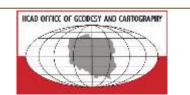












**CO-OPERATION** 









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### **CHALLENGES FOR SPATIAL DATA ACQUISITION**









NEW SENSORS & PLATFORMS



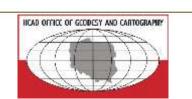
NEW METHODS

**NEW USERS** 

















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### NATIONAL GEODETIC AND CARTOGRAPHIC RESOURCE of POLAND

**ACTUALITY** 

**AUTHORITY** 

**CORRECTNESS** 

**ACCURACY** 

**AVAILABILITY** 

**CONSISTENCY** 

**COMPLETENESS** 

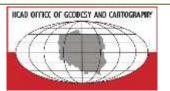
**COVERAGE** 



















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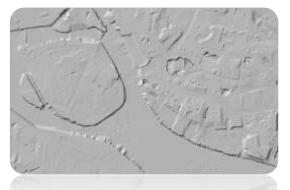
### PROVIDING OF NATIONAL GEODETIC AND CARTOGRAPHIC RESOURCE



**ORTHOPHOTOMAPS/ AERIAL IMAGES** 



LIDAR DATA



DEM



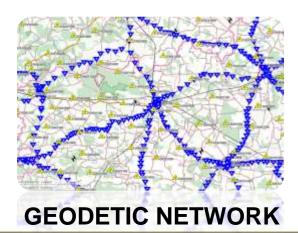
DSM



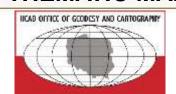




THEMATIC MAPS



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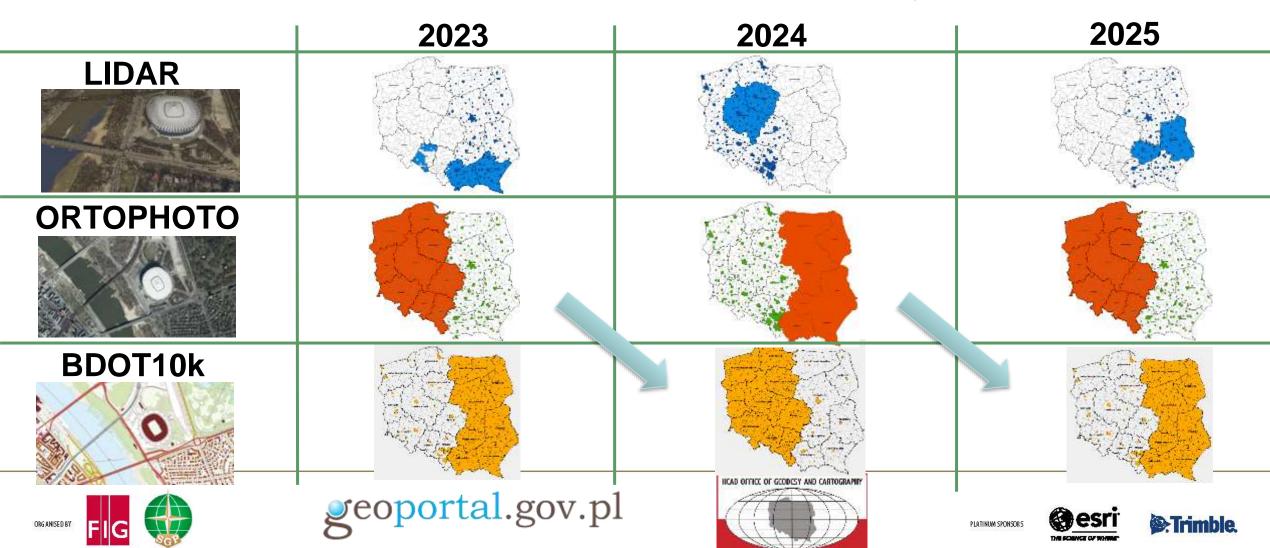




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### **MULTIANNUAL PLAN FOR SPATIAL DATA ACQUISITION**



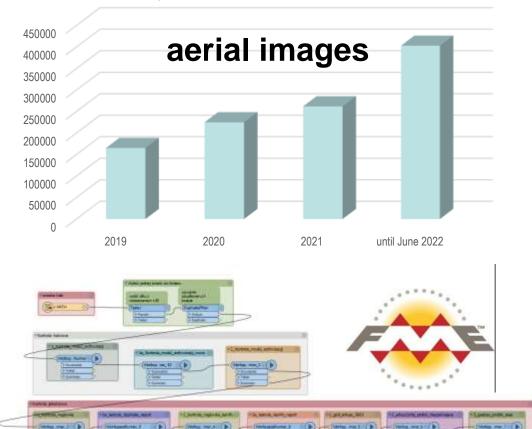




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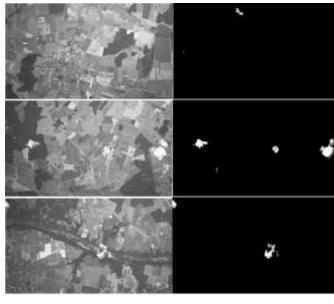
### **QUALITY CONTROL AUTOMATION – CASE OF AERIAL IMAGERY**







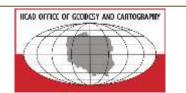
# DEEP LEARNING CertiflAI















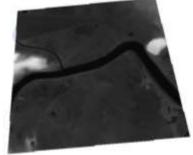




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### **AUTOMATIC PRODUCTION – 3D MODELS OF BUILDINGS**



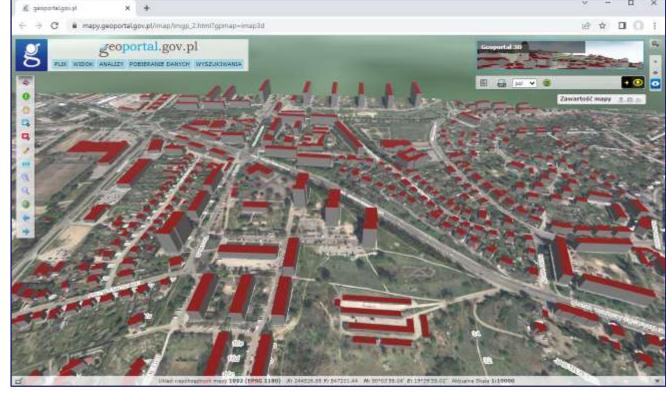
DEM 1m



**ALS- building class** 



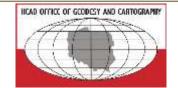
Database of Topographic Object- BUBD\_A class















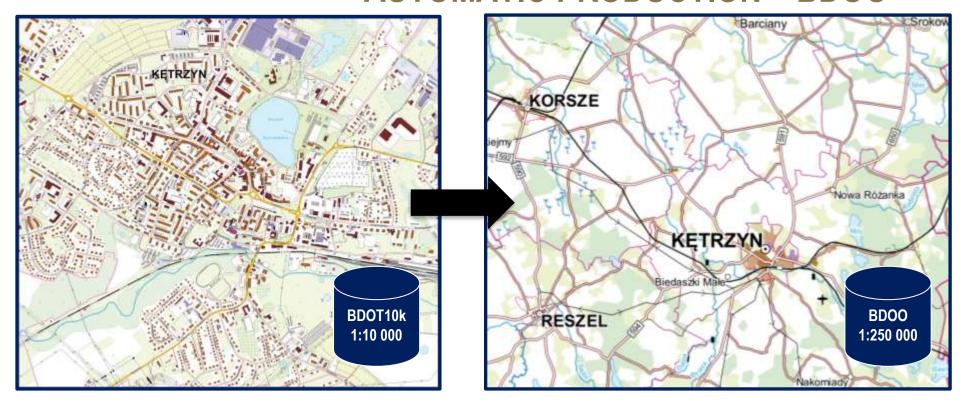




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### **AUTOMATIC PRODUCTION – BD00**



Topographic Objects Database BDOT10k

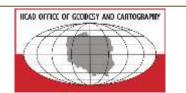
The General Geographic Objects Database BDOO

# Fully automatic generalization













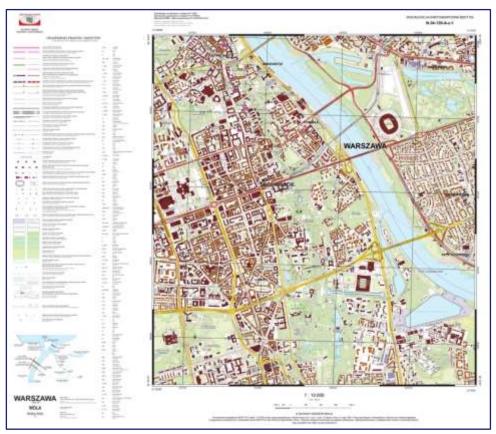




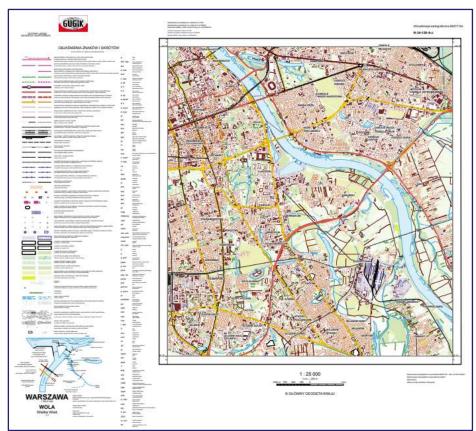
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### **AUTOMATIC PRODUCTION – CARTOGRAPHIC VISUALISATION**



1:10 000

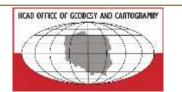


1:25 000













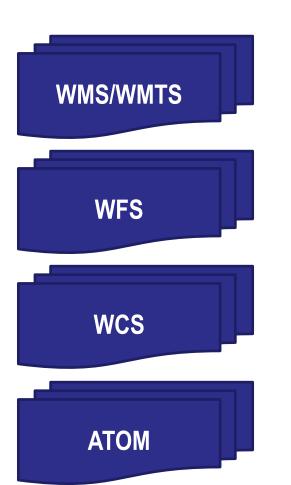


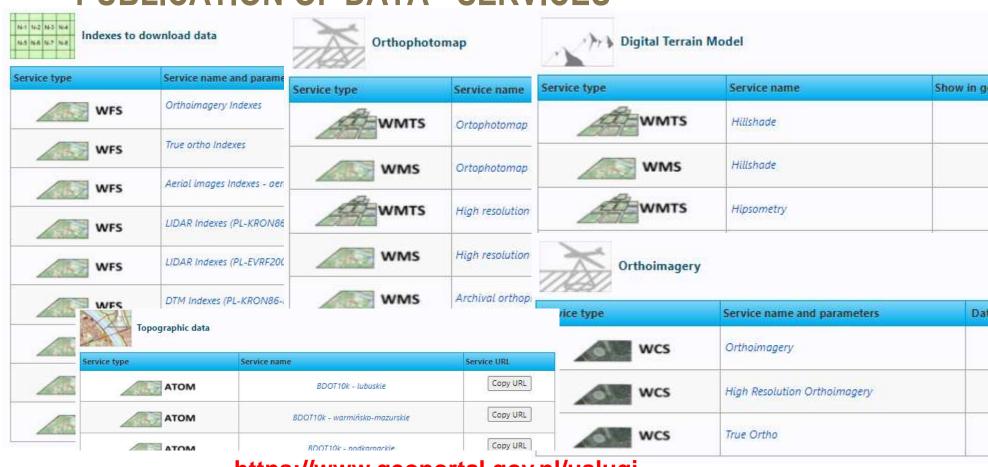


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### **PUBLICATION OF DATA - SERVICES**



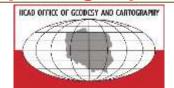


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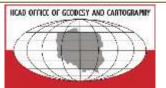
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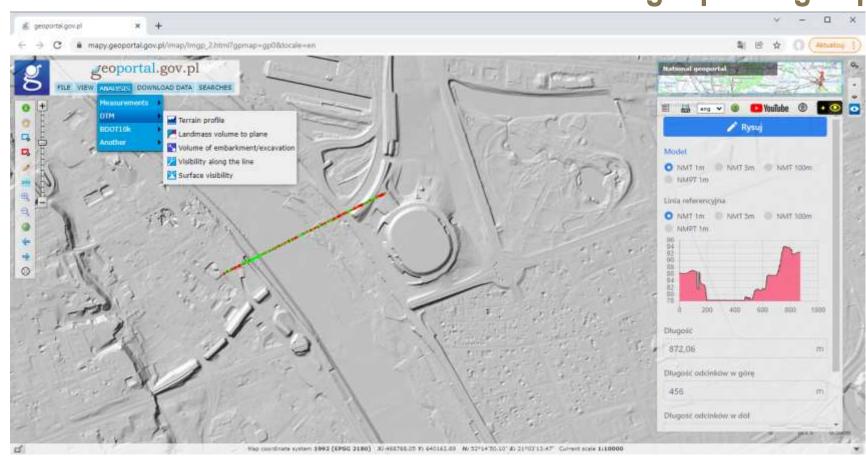




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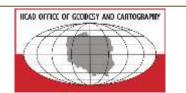
### ANALYSIS - www.geoportal.gov.pl



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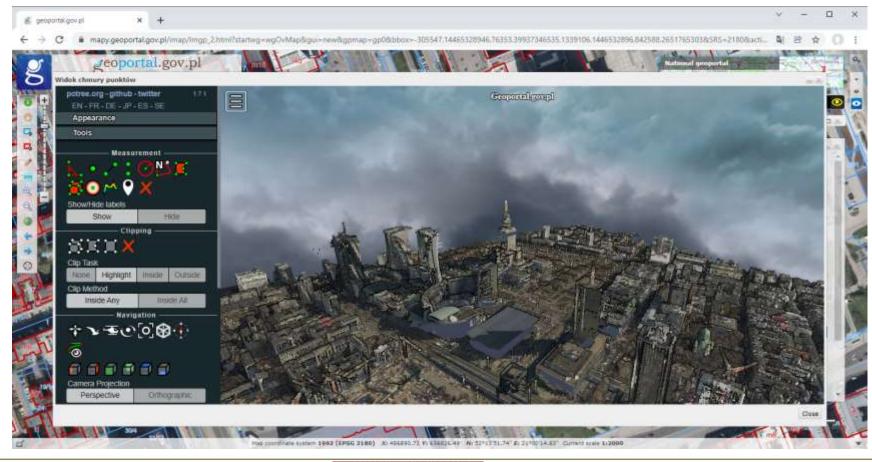


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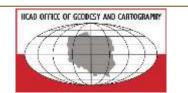
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## **THANK YOU!**

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  - Director of Geodesy, Cartography and GIS Department
    - Head Office of Geodesy and Cartography









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