



# **Good practice proposal – Building one access point to dispersed data sources**

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MIG-T Meeting 13th October 2020

# Description of the GP (1)



**Datasets maintained at a local level independently by different municipalities often:**

- Are very similar: have the same content, data model, data structure, portrayal etc.
- Have different spatial extend limited by boundaries of municipalities



**Good example is cadastral data in Poland that is maintained by 380 districts (powiaty)**

- Districts maintain the cadastral datasets in the same national data model
- Each district maintains cadastral dataset limited spatially to its boundaries
- Each district is obliged by law to publish network services providing dataset the district maintains
- This results in 380 WMS services published by districts providing cadastral datasets



**Let's create a proxy service that integrates  
local services**



# Benefits



One endpoint for a particular dataset (e.g. cadastre) for the entire country

- It saves user's time – the user doesn't have search for endpoints of view services published by different districts
- It hides the complexity of the SDI implementation – from the user perspective integrated service provides access to one seamless dataset



# Intendent outcome



**Users should access dispersed datasets from a single endpoint**



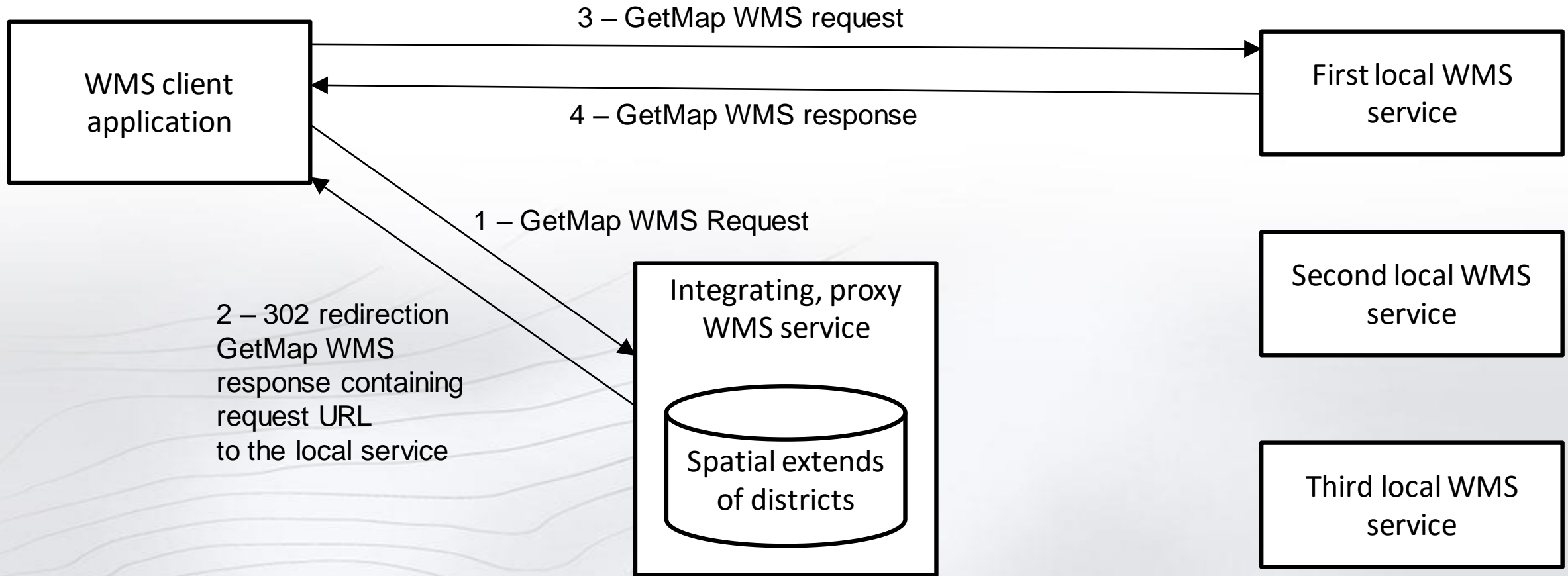
**This can be for example done as:**

- **a single national endpoint per dataset integrating services published by municipalities**
- **a single European access point per INSPIRE theme integrating services provided by the Member States**

# How it works? (1)



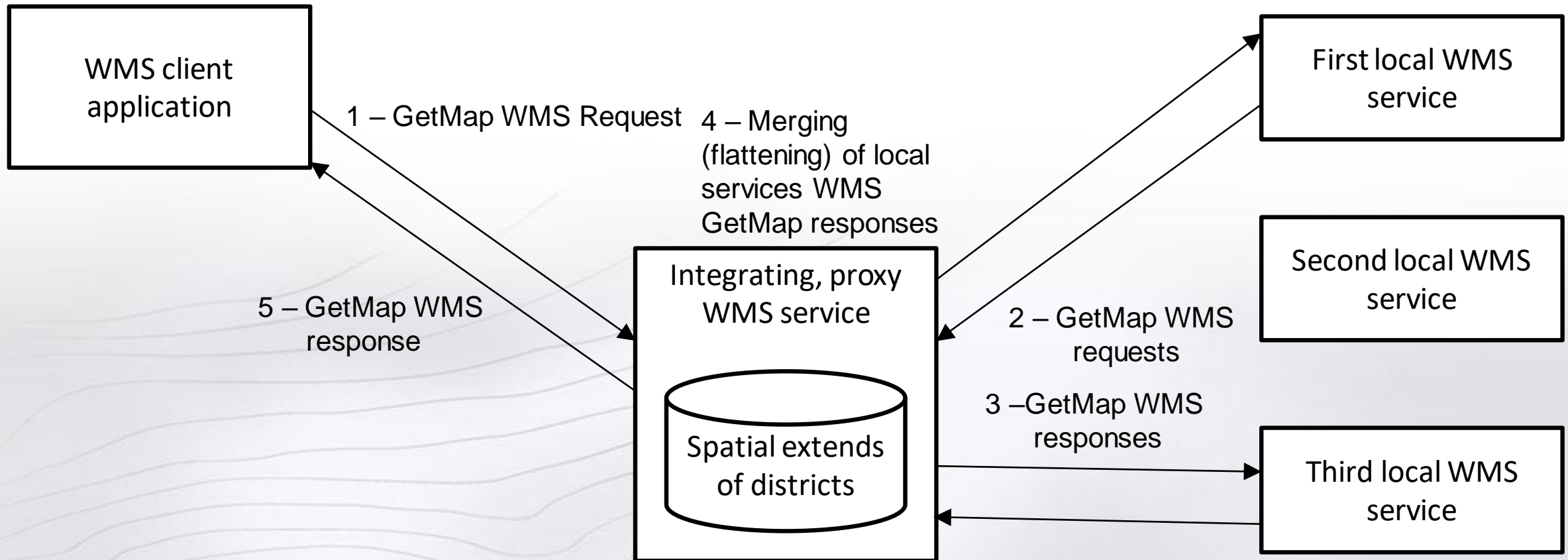
## Request forwarded to one local service



# How it works? (2)



## Request forwarded to many local services



# Evidence of implementation (1)



There are following integrating WMS services available:

- KIEG – providing cadastral data (cadastral parcels and buildings)  
<https://integracja.gugik.gov.pl/cgi-bin/KrajowaIntegracjaEwidencjiGruntow>
- KIUT – providing utility infrastructure data (electricity, water, telecommunication, sewers, gas and other networks)  
<https://integracja.gugik.gov.pl/cgi-bin/KrajowaIntegracjaUzbrojeniaTerenu>
- KIBDOT – providing high scale topographic data (containing the location of fences, trees, curbs, etc. ) <https://integracja.gugik.gov.pl/cgi-bin/KrajowaIntegracjaBazDanychObiektowTopograficznych>

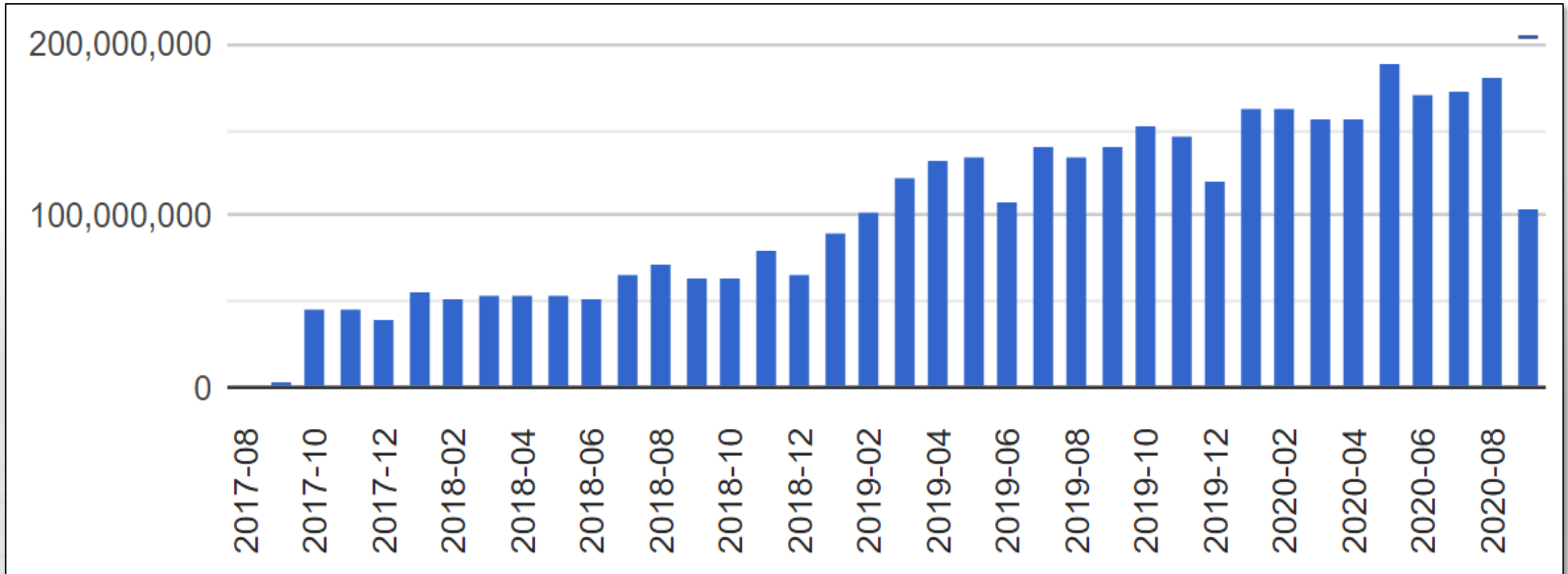




# Evidence of implementation (3)

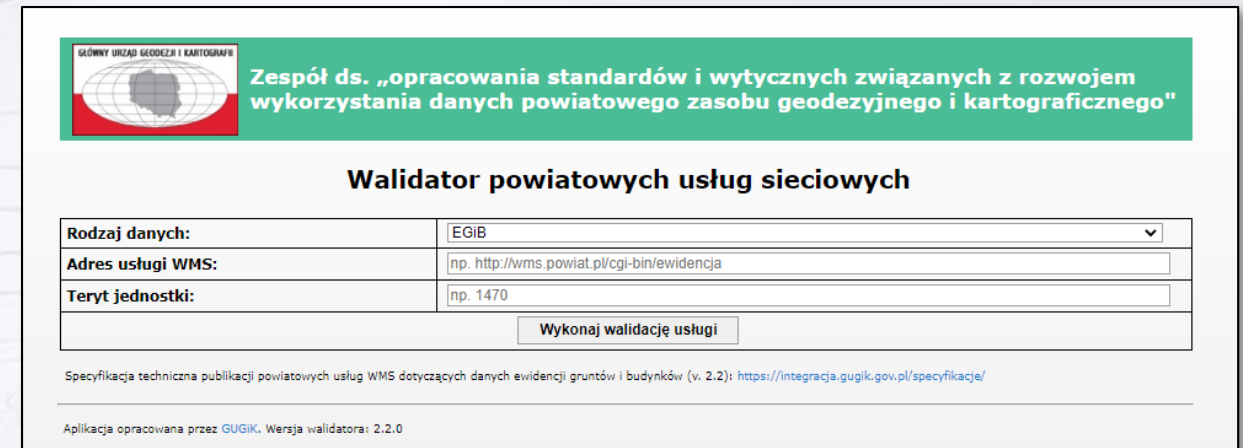
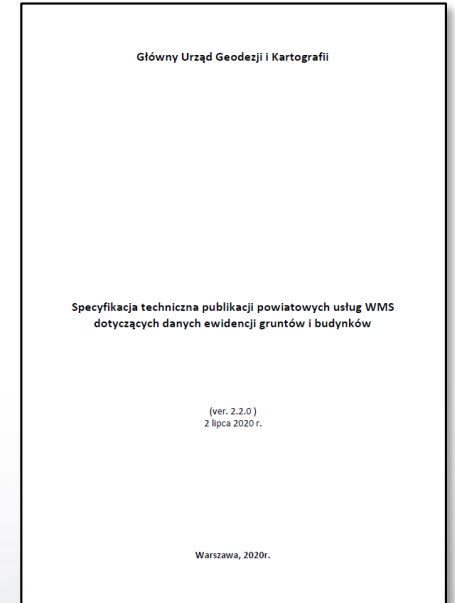


## Monthly number of request to the KIEG service





- The standards are available for
  - KIEG
  - KIUT
- Validator application



GLÓWNY URZĄD GEODEZJI I KARTOGRAFII

Zespół ds. „opracowania standardów i wytycznych związanych z rozwojem wykorzystania danych powiatowego zasobu geodezyjnego i kartograficznego”

### Walidator powiatowych usług sieciowych

Rodzaj danych:	EGIB
Adres usługi WMS:	np. <a href="http://wms.powiat.pl/cgi-bin/ewidencja">http://wms.powiat.pl/cgi-bin/ewidencja</a>
Teryt jednostki:	np. 1470

Specyfikacja techniczna publikacji powiatowych usług WMS dotyczących danych ewidencji gruntów i budynków (v. 2.2): <https://integracja.gugik.gov.pl/specyfikacje/>

Aplikacja opracowana przez GUGIK. Wersja walidatora: 2.2.0

# Limitations



Additional resources are required to:

- create and maintain a proxy service
- develop standardization documents
- standardise local services





# Live demo



The screenshot displays the National Geoportal interface. The main map area shows a cadastral plan with red-outlined parcels, blue utility lines, and various annotations. The 'Map contents' panel on the right lists several layers:

- Addresses and streets
- Integration of cadastral data
- Integration of utilities networks
- Topographic objects
- Integration of local development plans
- Real estate prices
- Local map portals
- Grids and coordinate systems
- Points of interest
- Data of other organisations
- Landform
- Data acquisition status
- Indexes
- Specialist data
- Topographic maps
- Orthoimagery
- Archival data

At the bottom of the map, the coordinate system is specified as 1992 (EPSG 2180) with coordinates: X: 483109.61 Y: 673844.15 N: 52°11'11.84" E: 21°32'37.91". The current scale is 1:500.



# Thank you for your attention

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