



Magdalena Borzęcka

Bioeconomy Platform as a tool for supporting the development of the bioeconomy in Poland



Department
of Bioeconomy
and Systems Analysis

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BIOECONOMY PLATFORM

A tool supporting the development of the bioeconomy
in Poland



BioEcon

This project has received funding from the European Union's HORIZON 2020 research and innovative programme

under Grant Agreement No. 669062

Call: H2020 WIDESPREAD-2014-2015, topic: WIDESPREAD-2014-2 ERA Chairs



ADMINISTRATION

A department designed to support public administration in the field of bioeconomy.

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SCIENCE

A department dedicated to scientists working on bioeconomy research ... and more.

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BUSINESS

The department is designed for companies from the bioeconomy sector, wishing to expand their knowledge and experience, build a network of contacts, make friends.

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Direct knowledge transfer to:

- Council of Ministers of the Republic of Poland - agricultural, environmental, regional development and infrastructure departments;
- Local government and administrative authorities at various levels of management;
- Consulting and agricultural producers;
- Agency for Restructuring and Modernisation of Agriculture (ARMA);
- Farmers' organizations, agricultural chambers, business, clusters;
- Planning and design units;
- Agricultural schools.

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COMPENDIUM



DICTIONARY



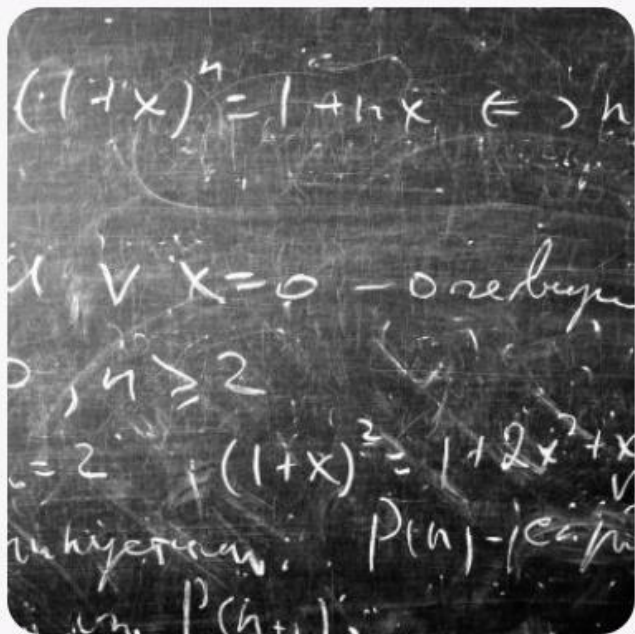
LEXICON

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TOOLS



GAMS



BIOMASS CALCULATOR

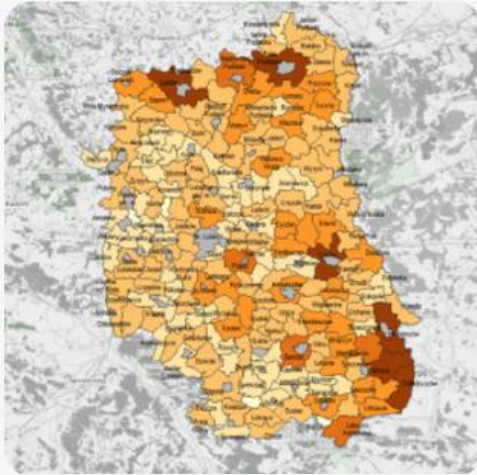
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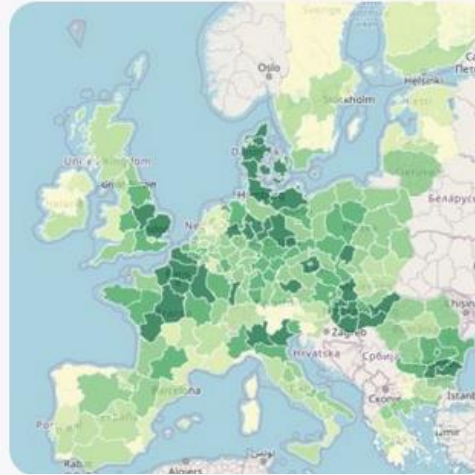
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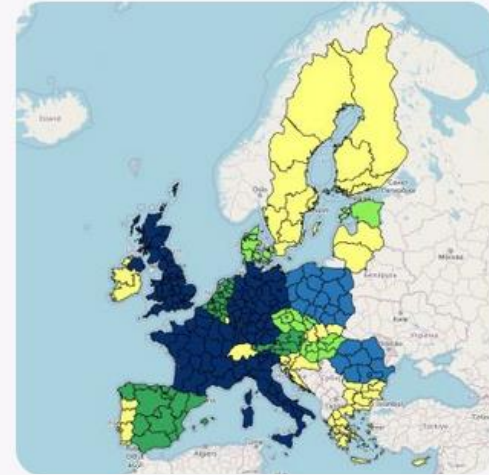
GEOPORTALS



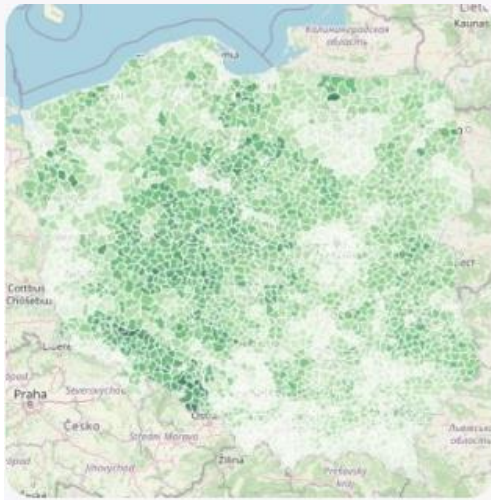
BIOECONOMY



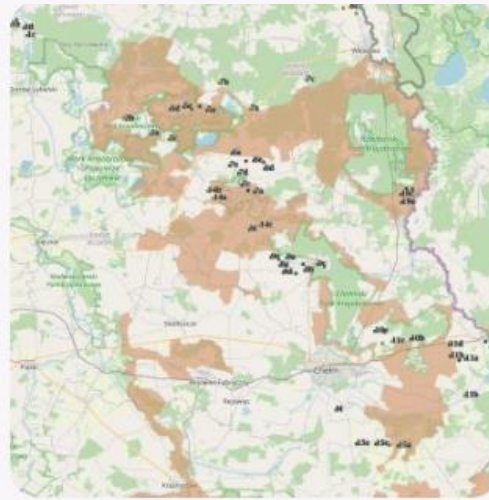
Biomass potential in Europe



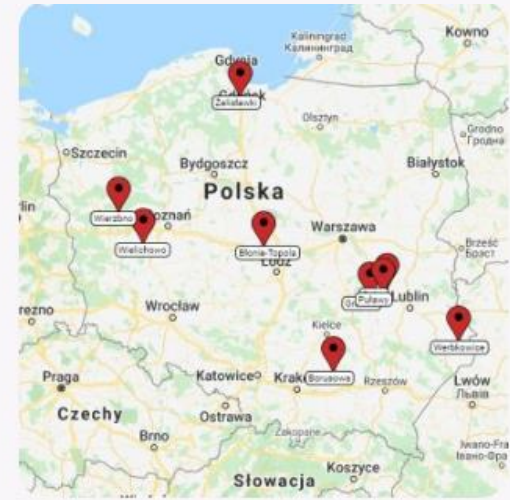
Waste Wood Potential in Europe



Agricultural biomass potential in Poland



Protection of species diversity NATURA 2000 Lubelskie Voivodship



LCAgri

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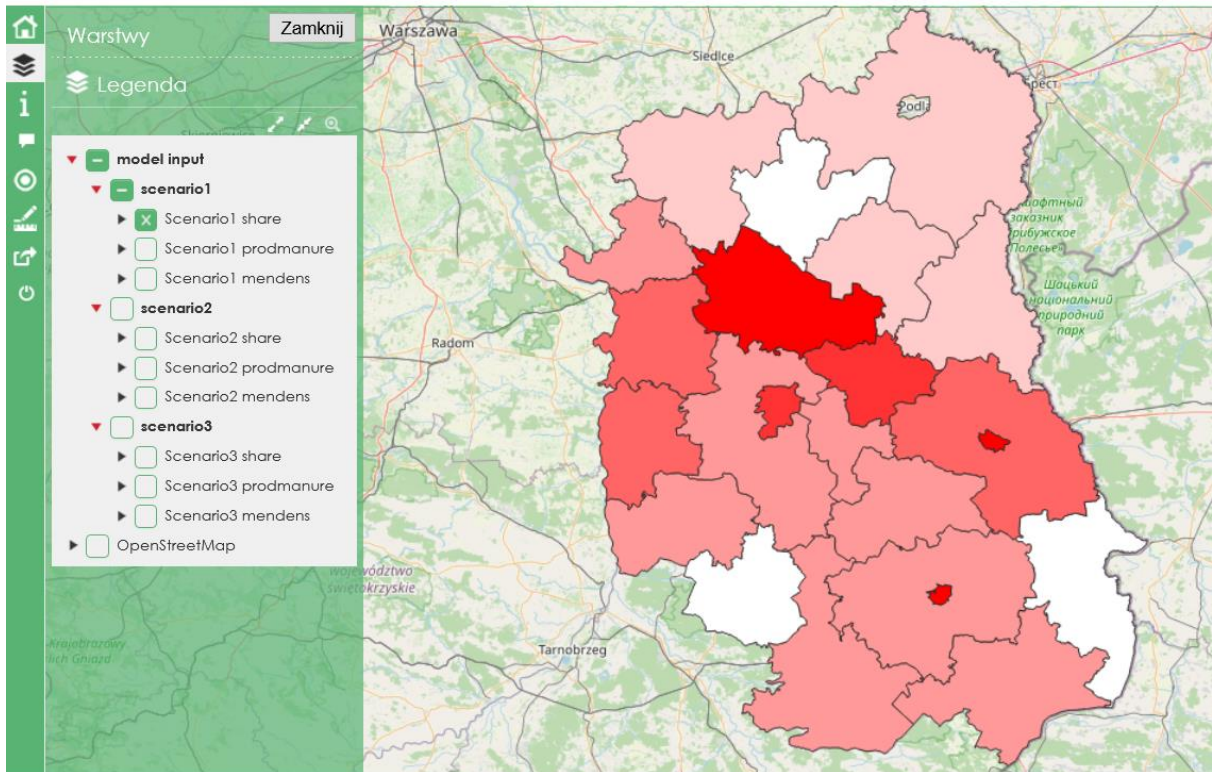


WEB-BASED SPATIAL DECISION SUPPORT SYSTEM TO EVALUATE BIO-ENERGY PROJECTS



Zakład
Biogospodarki
i Analiz Systemowych

GAMS Model GAMS model



The DSS contains **technical, economic, and cartographic information**

- to evaluate alternative bioenergy systems,
- to determine the optimal size, location and biomass crop cultivations subject,

The DSS provides **spatial and economic information** on the bioenergy unit as well as on **biomass raw material** corresponding to the user-defined parameters.



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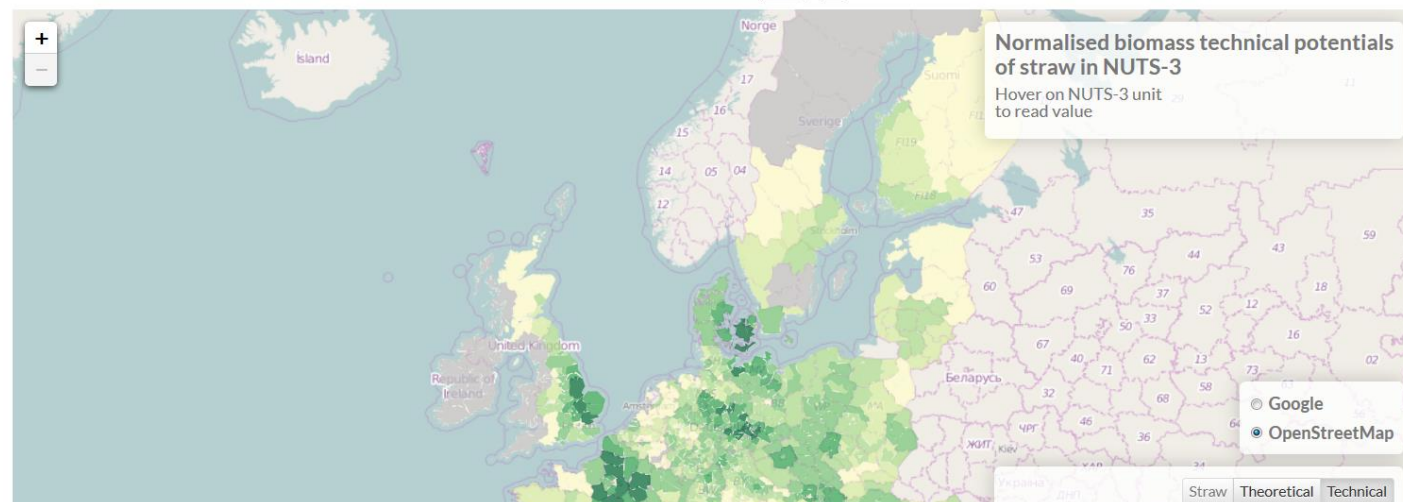
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Biomass potential maps

You can pan (drag and move), zoom (double click or scroll) and hover on the map to gather required information

To make sure that you are using the latest version of BioBoost Geoportal, use the key combination **Ctrl + F5**



Enable calculating

Number of selected NUTS **5**

Remove all

Sum values in columns

NUTS name	Straw	Residuals of pruning	Livestock Residues	Hay from permanent grassland	Forestry residues	Green urban areas	Perennial crops	Roadside vegetation	Biodegradable municipal waste	Bio-waste of food industry	Total
Włocławski	506.41	0.55	0.00	0.00	134.80	0.57	90.72	3.09	57.95	0.00	794.08
Kaliski	307.55	0.03	0.00	0.00	143.20	0.65	51.81	2.59	52.44	0.00	558.27
Chełmsko-zamojski	679.70	0.40	0.00	0.00	217.31	0.54	139.38	2.27	40.60	0.04	1080.23
Kielecki	94.25	0.16	0.00	0.00	234.42	0.78	91.06	2.24	80.72	0.02	503.65
Olsztyński	291.38	0.06	0.00	0.00	348.12	1.21	227.54	4.66	50.63	0.00	923.58
Total	1879.29	1.20	0.00	0.00	1077.84	3.75	600.50	14.85	282.33	0.06	3859.82

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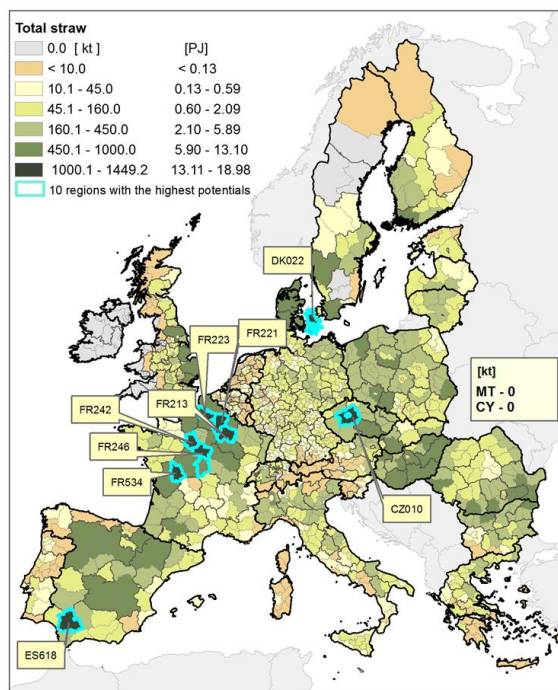
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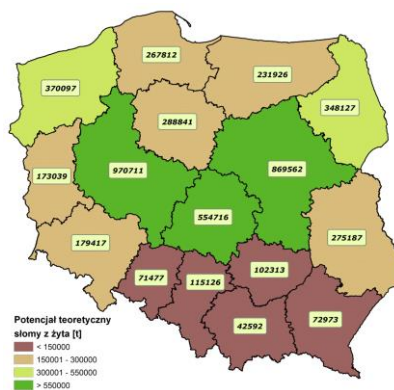
Biomass management decision support system

As part of the projects implementation, a number of spatial data and analytical models were collected and developed, which created the "Biomass Estimation System"

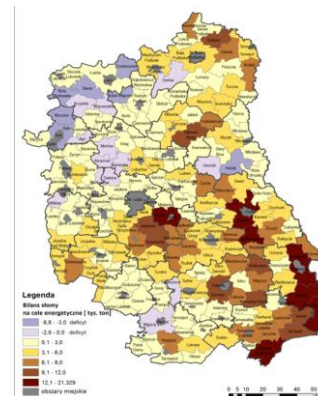
European level



Country level



NUTS2 level



NUTS5 level



Farm level



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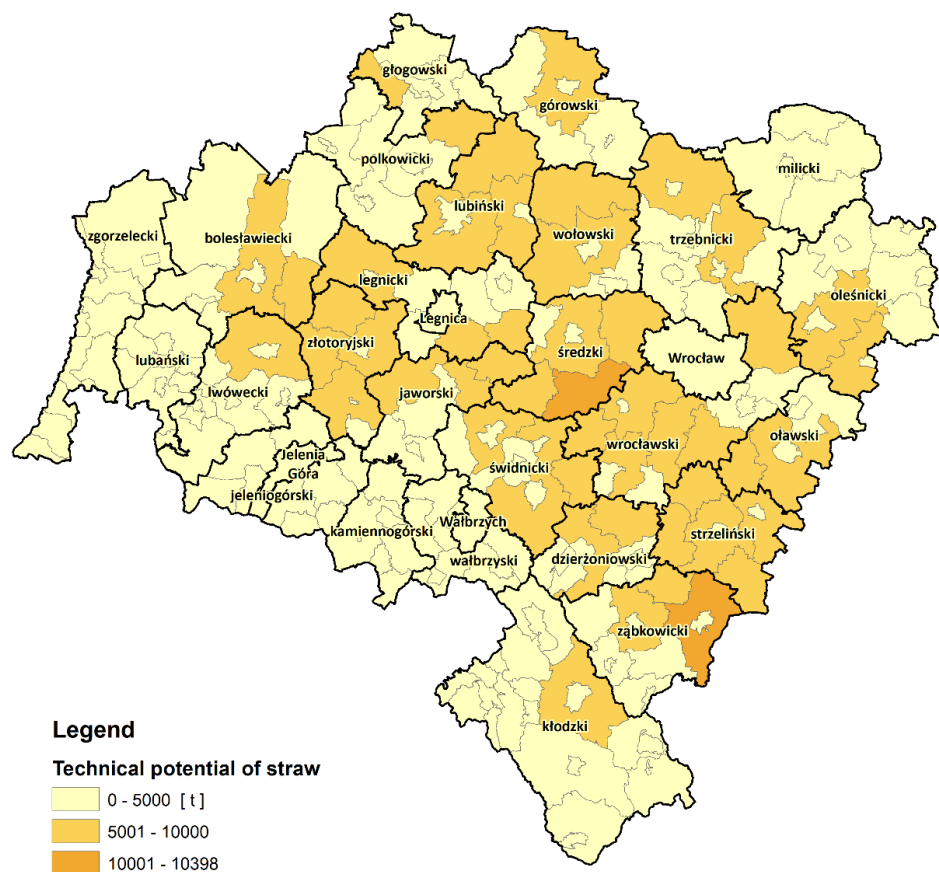
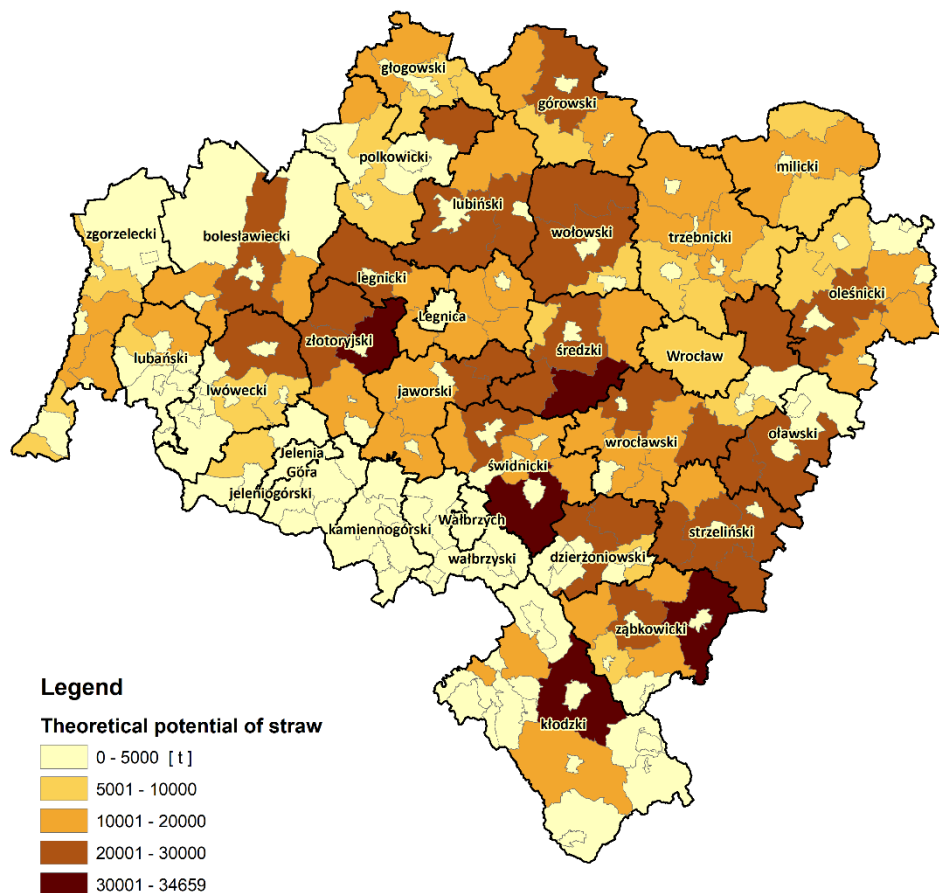
Biomass management decision support system

- Modeling at the level of farms with an area of 10 ha
- The model takes into account the mutual relations in plant and animal production and the need for soil maintenance
- The model takes into account the structure of crops (along with the division into spring crops and winter)
- The estimation of yields took into account agroclimate and soil conditions

The estimated resources are biomass that can be used for non-agricultural purposes and has no impact on food production or the potential for increasing it.



Biomass management decision support system



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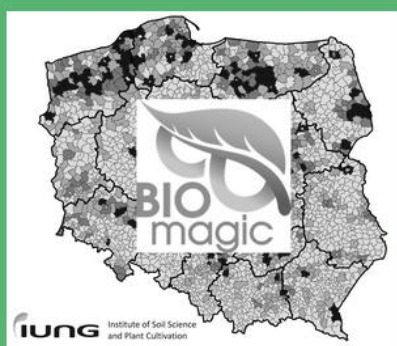


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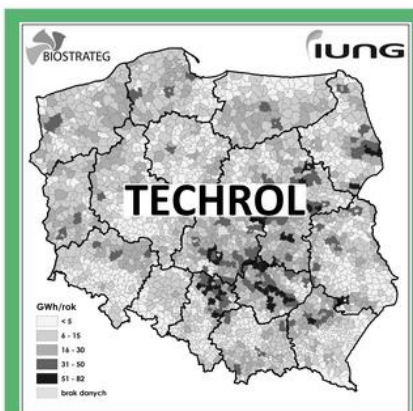
Repozytorium Publiczne IUNG



BioMagic

Załaduj mapę

Zobacz metadane



TechRol

Załaduj mapę

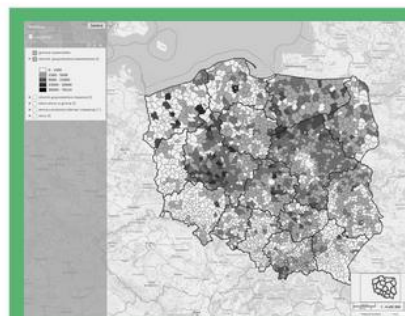
Zobacz metadane



słoma lubelskie

Załaduj mapę

Zobacz metadane



Program_Wieloletni_1_7

Załaduj mapę

Zobacz metadane

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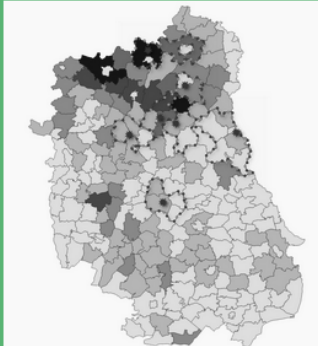
Repozytorium Anna



BioMagic

Zataduj mapę

Zobacz metadane



obornik

Zataduj mapę

Zobacz metadane

Repozytorium Gosia



cosik

Zataduj mapę

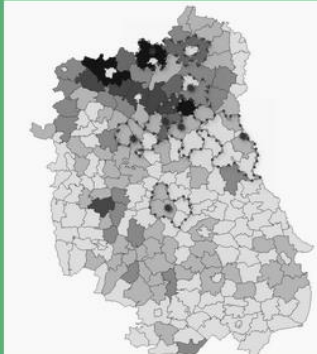
Zobacz metadane



lcagri

Zataduj mapę

Zobacz metadane



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Zobacz metadane



wierzba_plon

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Zobacz metadane

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Thank you

Please visit our website:

<http://biogospodarka.iung.pl/bioecon/>

email: bioecon@iung.pulawy.pl

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