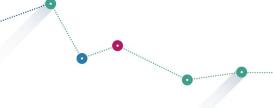


### **GEOSTATISTICS PORTAL**

new developments and future plans

Mirosław Migacz Chief GIS Specialist Central Statistical Office of Poland

European Forum for Geography and Statistics 2016 Paris, November 17th



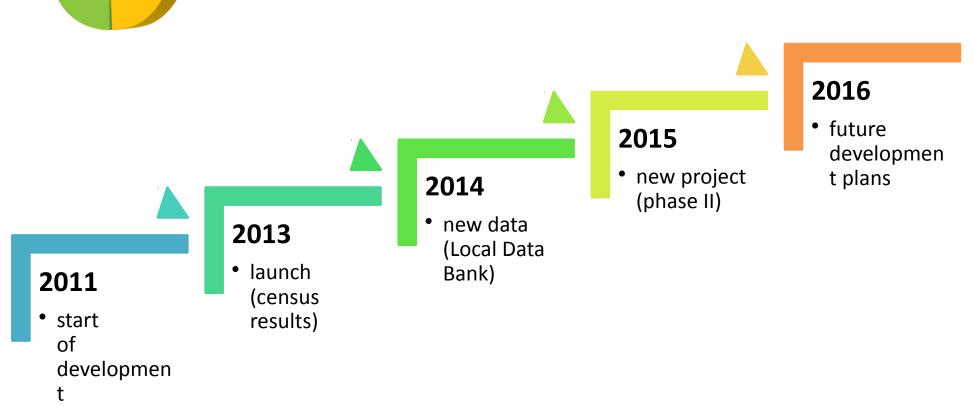
- statistical data geovisualization
- spatial datapublishing
- network services (INSPIRE)





Timeline GEO.STAT.GOV.PL





### Data scope – user customized content

- Point referenced data:
  - Agricultural Census 2010
  - Population and Housing Census2011
- Aggregated data:
  - Local Data Bank(2002-2016)

Region (NUTS1) Voivodship (NUTS2) **LOCAL DATA BANK** Subregion (NUTS3) County (LAU1) Municipality (LAU2) Freehand polygon **MICRODATA QUERIES** 

CENSUS RESULTS

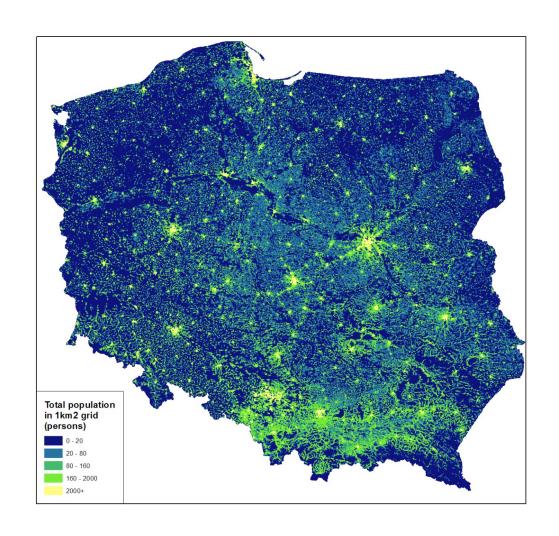
### Data scope – static content

# **Grids** (census data, GEOSTAT projects):

- total population,
- classifications by:
  - sex,
  - age groups (0-14, 15-64, 65+),
- femininity ratio.

# **Soon:** Statistical regions and census enumeration areas:

- total population,
- classifications by:
  - sex,
  - age groups (0-14, 15-64, 65+),



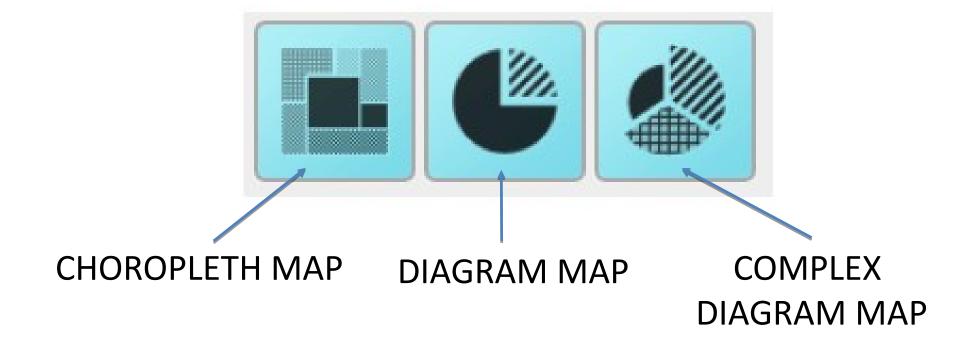


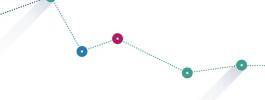
#### **GEO.STAT.GOV.PL**

### Thematic map tools



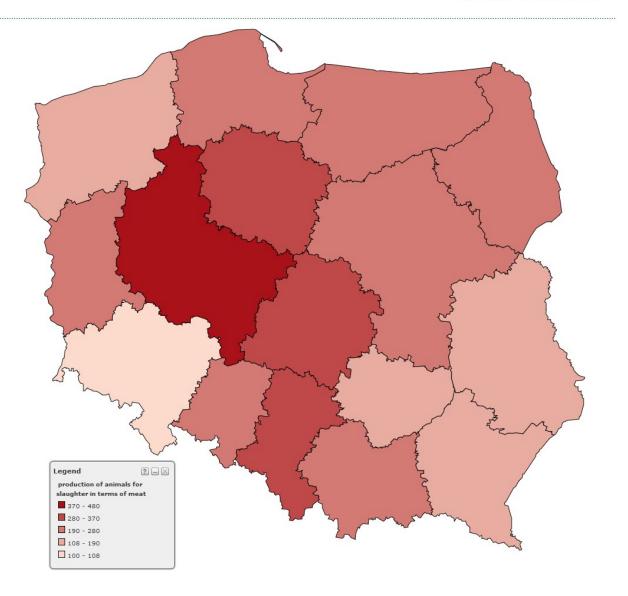






### **Choropleth map**

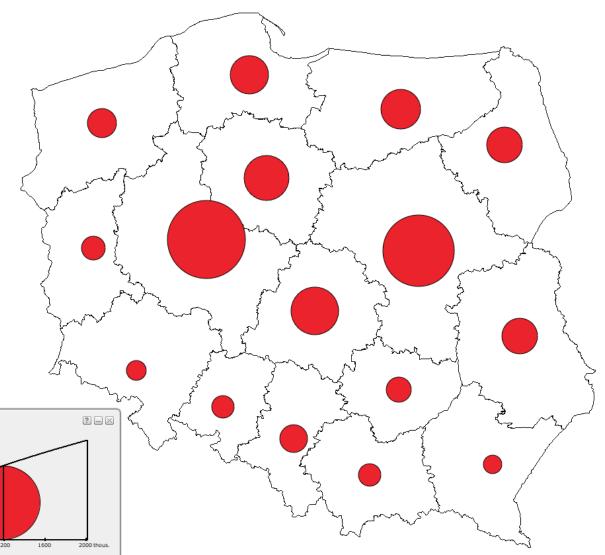
Production of animals for slaughter per 1 ha of agricultural holdings

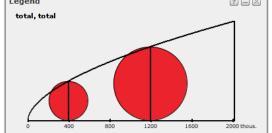




# Diagram map: simple (circle)

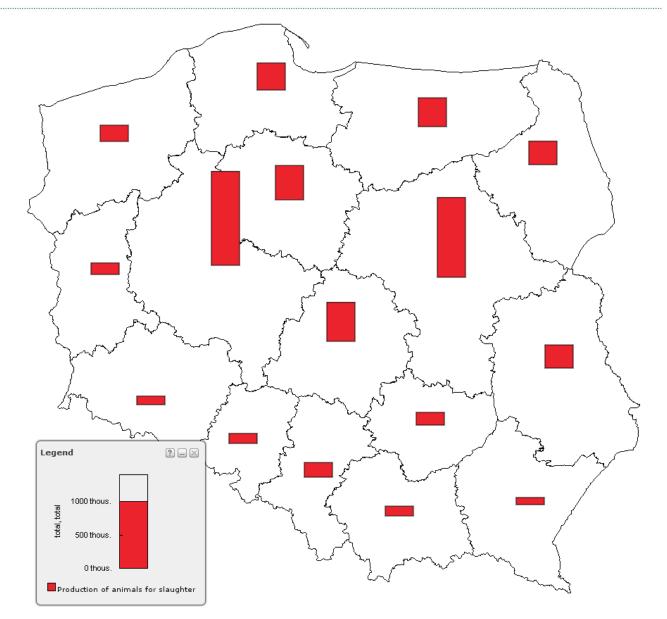
Production of animals for slaughter





# Diagram map: simple (bar)

Production of animals for slaughter

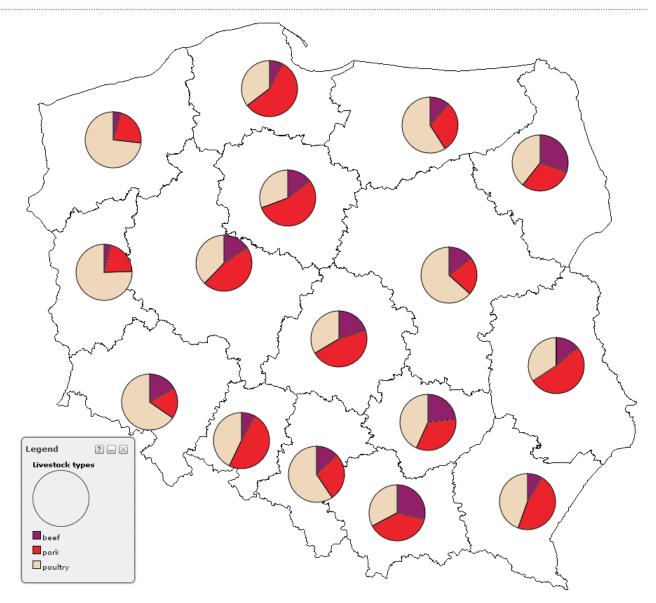


### Diagram map: structural (circle)

Production of animals for slaughter:

- beef
- pork
- poultry

#### structure



# Diagram map: summaric (circle)

Production of animals for slaughter:

- beef
- pork
- poultry

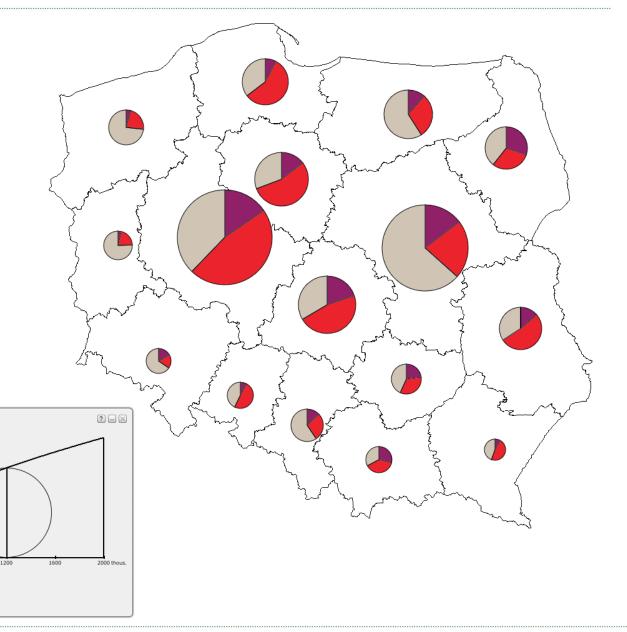
### total + structure

unit: voivodship

Livestock types

■ pork

(NUTS2)

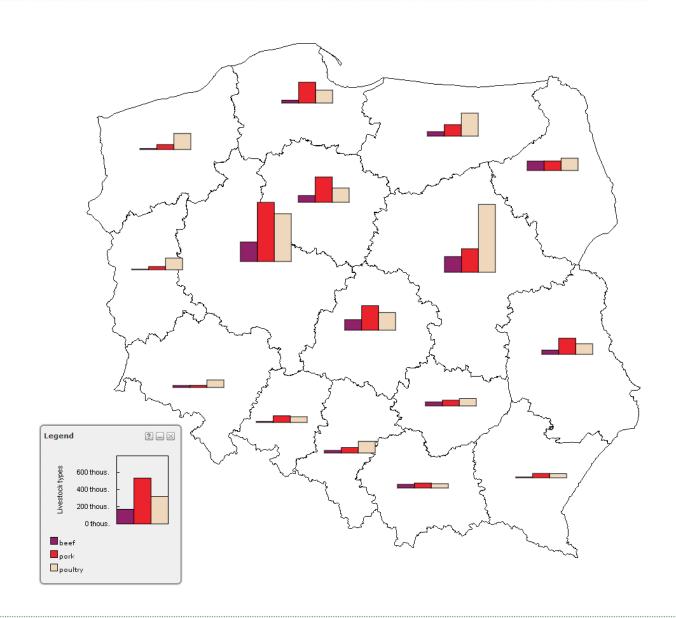


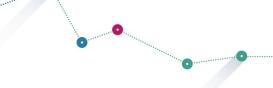
## Diagram map: structural (bar)

Production of animals for slaughter:

- beef
- pork
- poultry

# structure + individual values



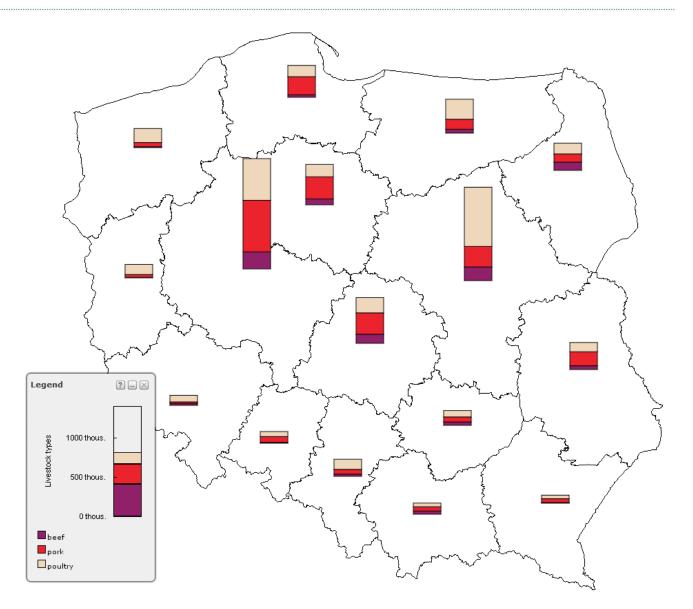


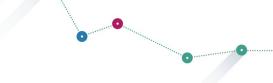
# Diagram map: summaric (bar)

Production of animals for slaughter:

- beef
- pork
- poultry

#### structure + total



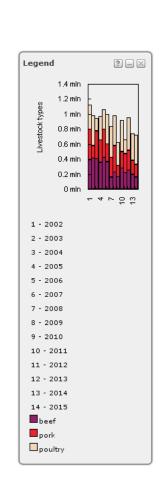


### Diagram map: summaric complex

Production of animals for slaughter:

- beef
- pork
- poultry

structure + total by year (2002-2015)





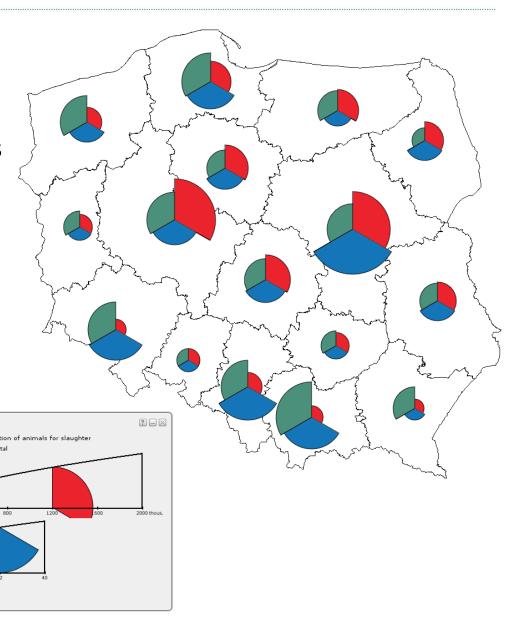
### Diagram map: complex

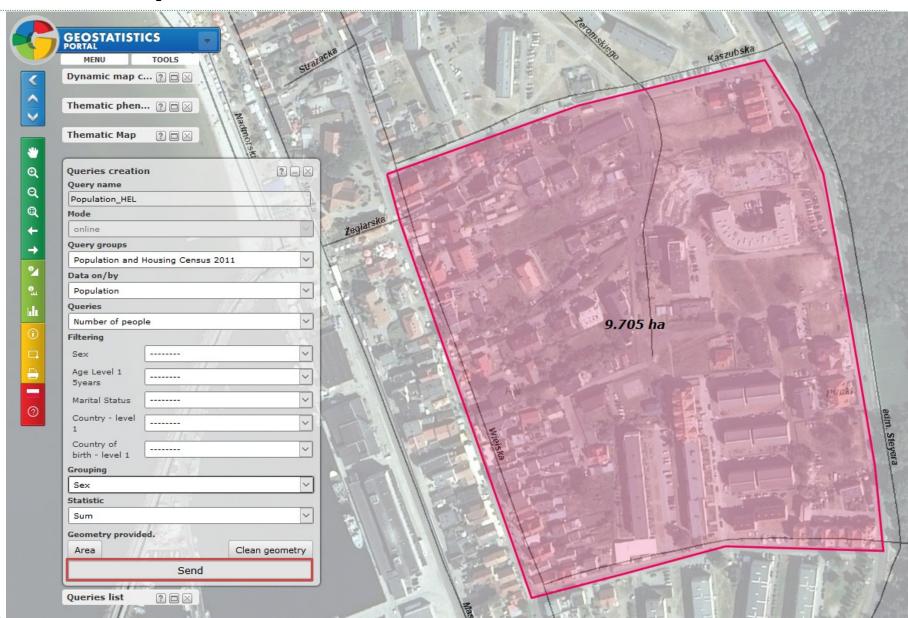
- production of animals for slaughter
- theatres and music institutions
- tourist accomodation establishments
   w/ conference facilities

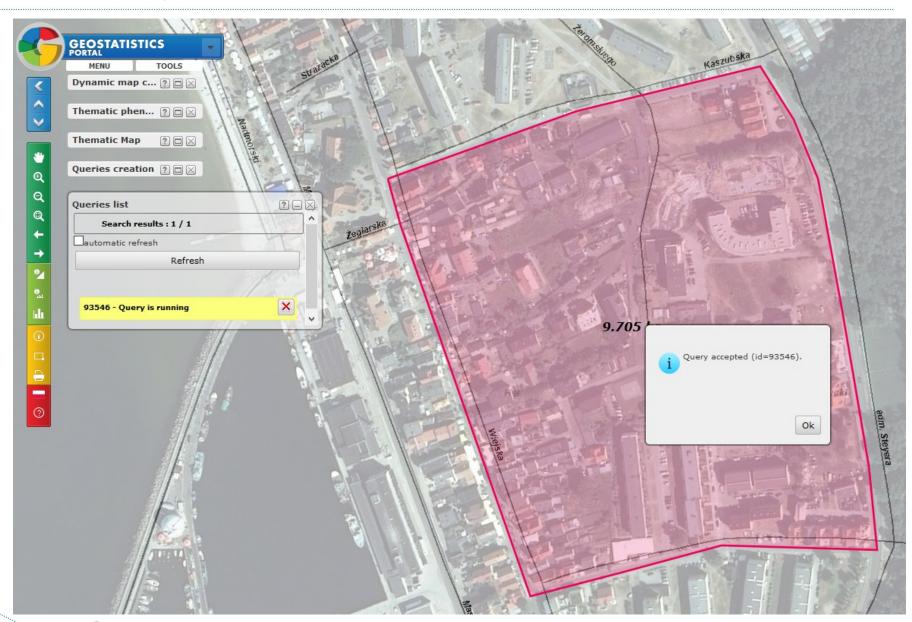
Tourist accommodation establishments equipped with

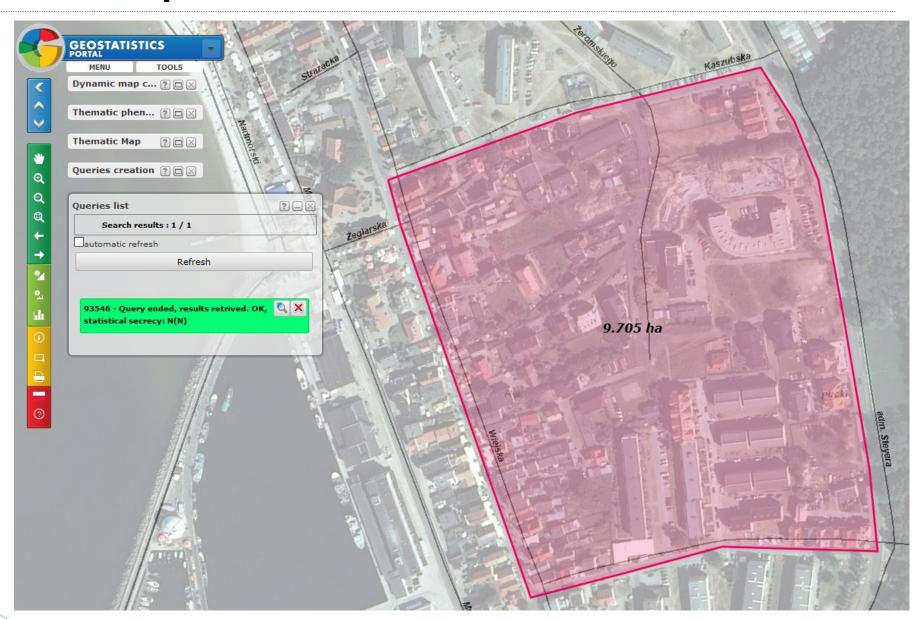
Theatres and music institutions

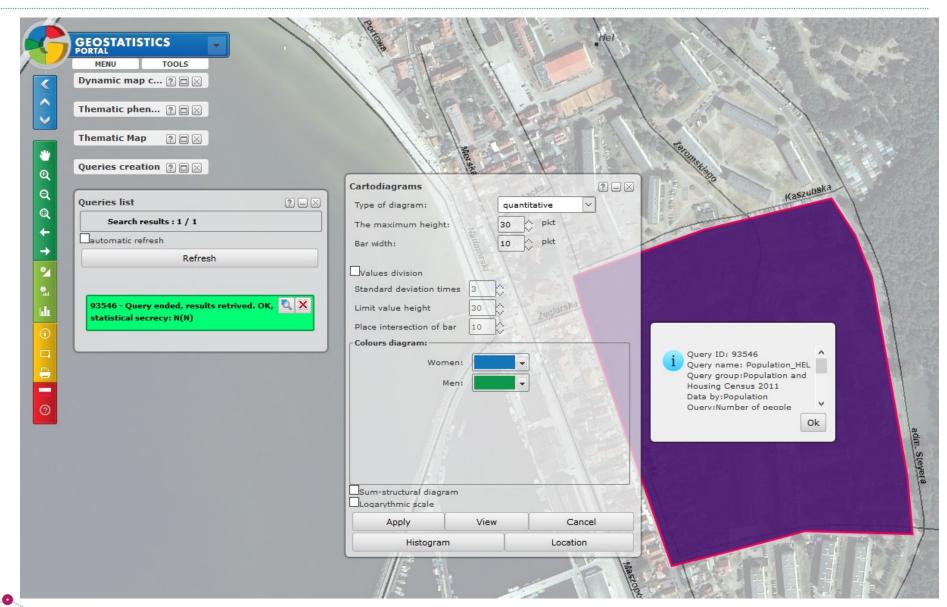
conference facilities

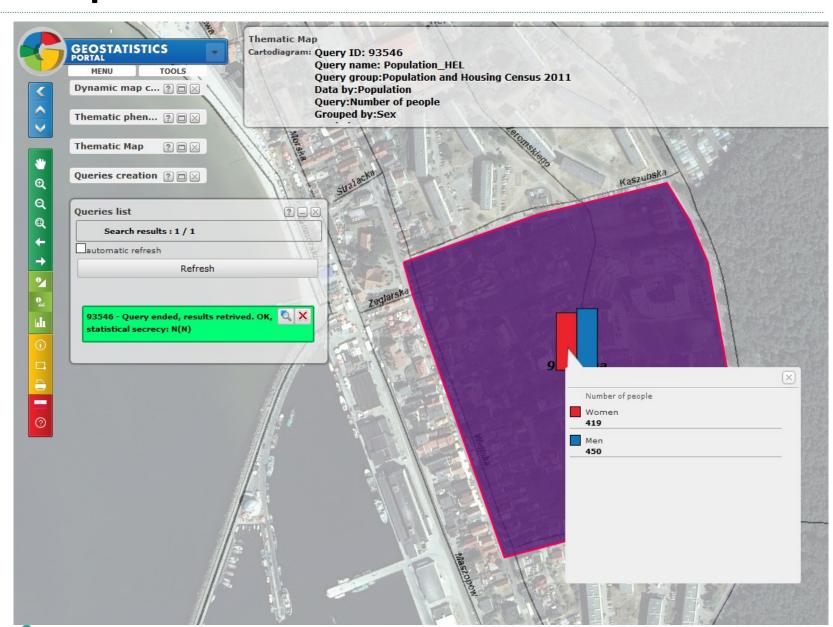










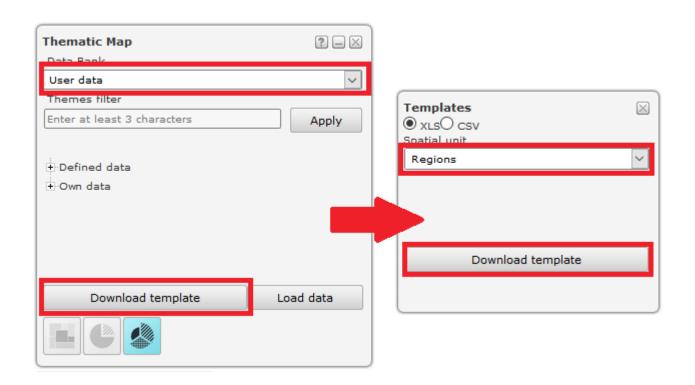


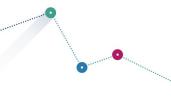
	_						
Diagram map re	eport						
Level of aggregation:	Freehand pol	lygon					
Diagram map type: structural (bar							
Diagram man procents th	a fallowing the	matic about an an an					
Diagram map presents the following thematic phenomenon Characteristic			measure	/ indicator	grouping	data so	NILLO
			-	indicator	grouping	Population and Housing Census 20	
Population			Number of people		Sex	Роригастоп апо нос	ising Census 2011
Statistics							
Indicator	Indicator Characterist						
mulcator		Women	Men				
Average		419,00	450,00				
Standard deviation		0,00	0,00				
Minimum		419,00	450,00				
Maximum		419,00	450,00				
Median		419,00	450,00				
Number of records		1	. 1				
Value table for the thema	itic phenomen	on:					
		dicator values					
Name	ID	Women	Men	SUMA			
	1	419	450	8	869		
	TOTAL:	419	450	869			



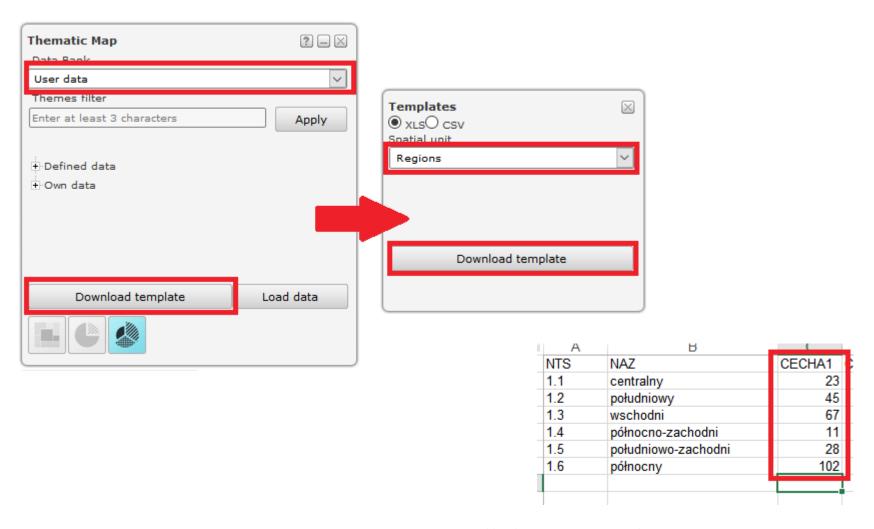
#### **GEO.STAT.GOV.PL**

### Visualization of user supplied data

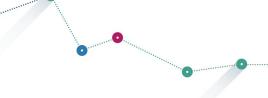




### Visualization of user supplied data



Fill the spreadsheet and save it to disk

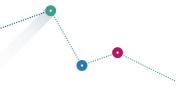


#### **GEO.STAT.GOV.PL**

# Visualization of user supplied data

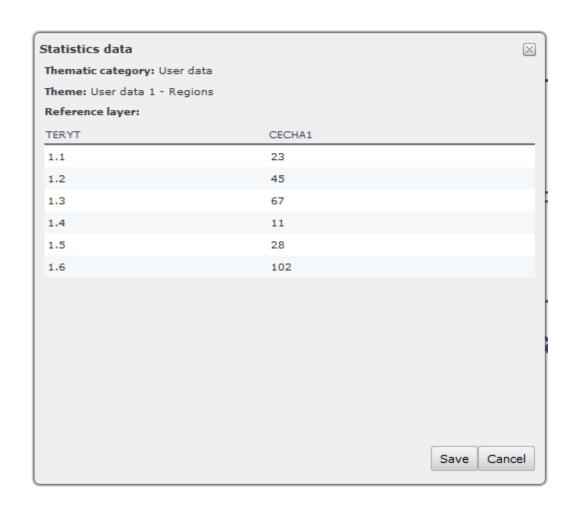
Thematic Map	? - ×
Data Bank	
User data	~
Themes filter	
Enter at least 3 characters	Apply
Defined data	
Download template	Load data
Download template	Load data
	Load data

Loading (	data	1		$\boxtimes$			
Loaded fi	e:	Wybierz plik	698.xlsx				
Thematic category:		egory:	User data				
Theme:	Theme:		User data 1				
Select t	Select the imported column:						
$\square$		NTS	^				
		NAZ					
		CECHA1					
		CECHA2					
		CECHA3					
		CECHA4					
		CECHA5	<b>~</b>				
Identifier	fiel	d:	NTS	~			
Reference layer:		/er:	Regions	~			
			Load Cano	el			



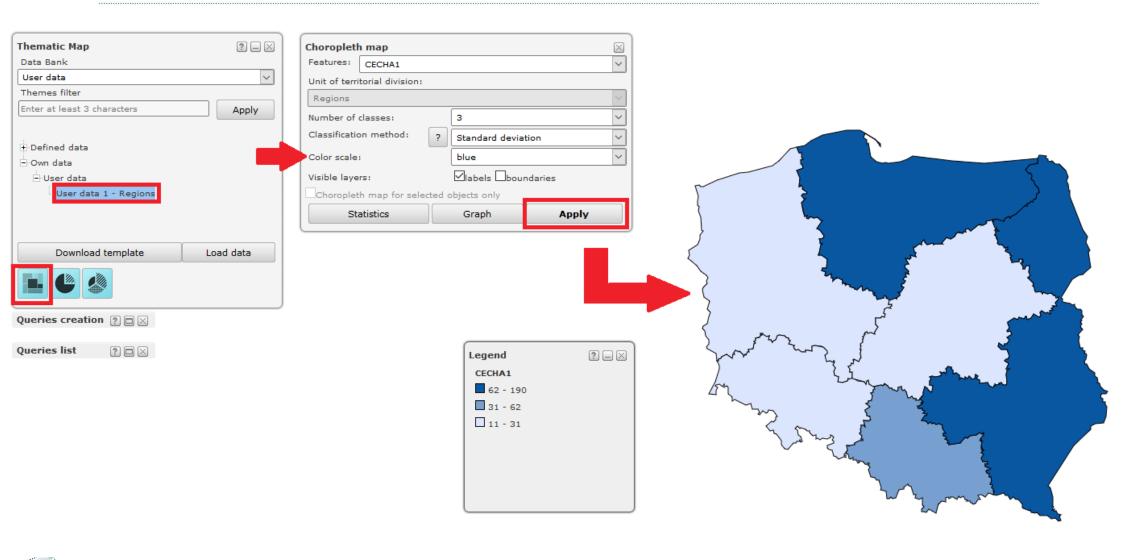
#### **GEO.STAT.GOV.PL**

### Visualization of user supplied data

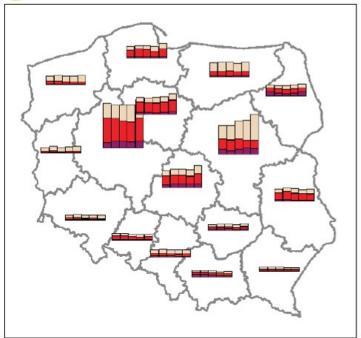




### Visualization of user supplied data

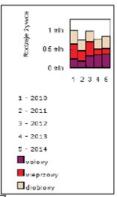


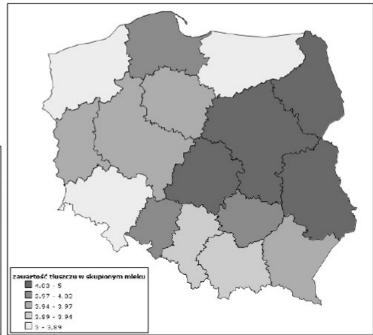
### ANIMAL PRODUCTION

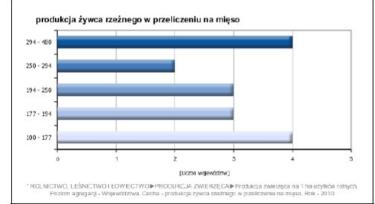




Produkcja żywca rzeźnego w latach







W 2014 r. uzyskano następujący poziom produkcji podstawowych produktów zwierzęcych:

- żywiec rzeźny ogółem 5844,9 tys. ton, tj. o 12,3% więcej niż w 2013 r.,
- mleko 12607,3 mln litrów, tj. o 2,1% więcej niż w 2013 r.,
- jaja kurze 10255,3 mln sztuk, tj. o 2,1% więcej niż rok wcześniej. Produkcja żywca rzeźnego ogólem w przeliczeniu na 1 ha użytków rolnych wyniosła 401,5 kg, a mleka 866 litrów wobec odpowiednio 356,3 kg oraz 8451 w 2013 r.

W 2014 r. przeciętna roczna wydajność mleka od 1 krowy wyniosła 5164 litrów i w stosunku do 2013 r. wzrosła o 3,7% (o 186 litry), nieśność kur zwiększyła się w skali roku o 9,1 %, a wydajność welny od 1 owcy zwiększyła się o 6,7% do poziomu 3,2 kg.





### **Geostatistics Portal mobile**

#### **GEO.STAT.GOV.PL**

#### **Functionalities:**

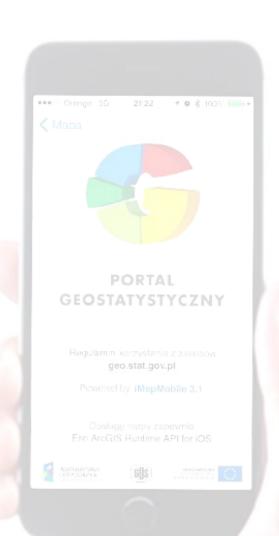
- determine location
- popular statistics for selected locations
- phenomena selection from Local Data Bank
- customizable choropleth map
- thematic map legend
- map composition selection
- basemap data (administrative units)
- population grids
- external WMS services





Geostatistics Portal mobile is available free of charge for:

- iOS
- Android
- Windows Phone (soon)





### **INSPIRE** services – statistical units (SU)

**GEO.STAT.GOV.PL** 

type	description	years (now)	years (soon)
NTS	NUTS 1-3 LAU 1-2	2010-2014	2002-2016
BREC	statistical regions, census areas	2010-2015	2010-2016
GRID	ETRS LAEA 1km x 1km	-	-

Data available in both GML and SHP for download free of charge

### **INSPIRE** services – demography (PD)

**GEO.STAT.GOV.PL** 

SU	description	total	classifications*	years (now)	years (soon)
NTS	NUTS 1-3 LAU 1-2	V	V	2010-2014	2010-2016
BREC	statistical regions, census areas	V	soon	2011 (census)	-
GRID	ETRS LAEA 1km x 1km	V	soon	2011 (census)	-

### \* classifications:

- sex
- age groups (0-14, 15-64, 65+)

• Data available in both GML and SHP for download free of charge

https://themes.jrc.ec.europa.eu - collaboration platform

### **Statistical Cluster:**



statistical units



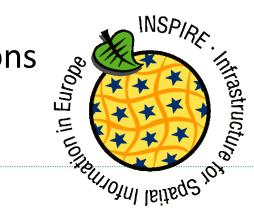
population distribution (demography)



human health and safety

### Struggling with INSPIRE implementation?

join the platform / share your practices / voice your concerns / participate in discussions



August 2016 – completed **feasibility study** for another project

### Plans:

- further development of web and mobile applications
- creation of a linked open data endpoint
- exploratory spatial analyses
- geostatistical modeling
- semi-automated enrichment of user supplied data

### **Geostatistics Portal:**

THE place for georeferenced statistical data in Poland



### **GEOSTATISTICS PORTAL**

new developments and future plans

Mirosław Migacz
Chief GIS Specialist
Central Statistical Office of Poland







