

EUROREG

CENTRE FOR EUROPEAN
REGIONAL AND LOCAL STUDIES
UNIVERSITY OF WARSAW

From counting sparrows to community urban planning – lessons from Citizen Science in Warsaw

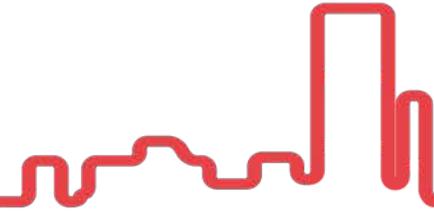
Katarzyna Wojnar (PhD)

k.wojnar@uw.edu.pl

September 24th 2020, UNICA Webinar

The Role of Universities in Fostering High Quality Citizen Science

Polarising metropolisation



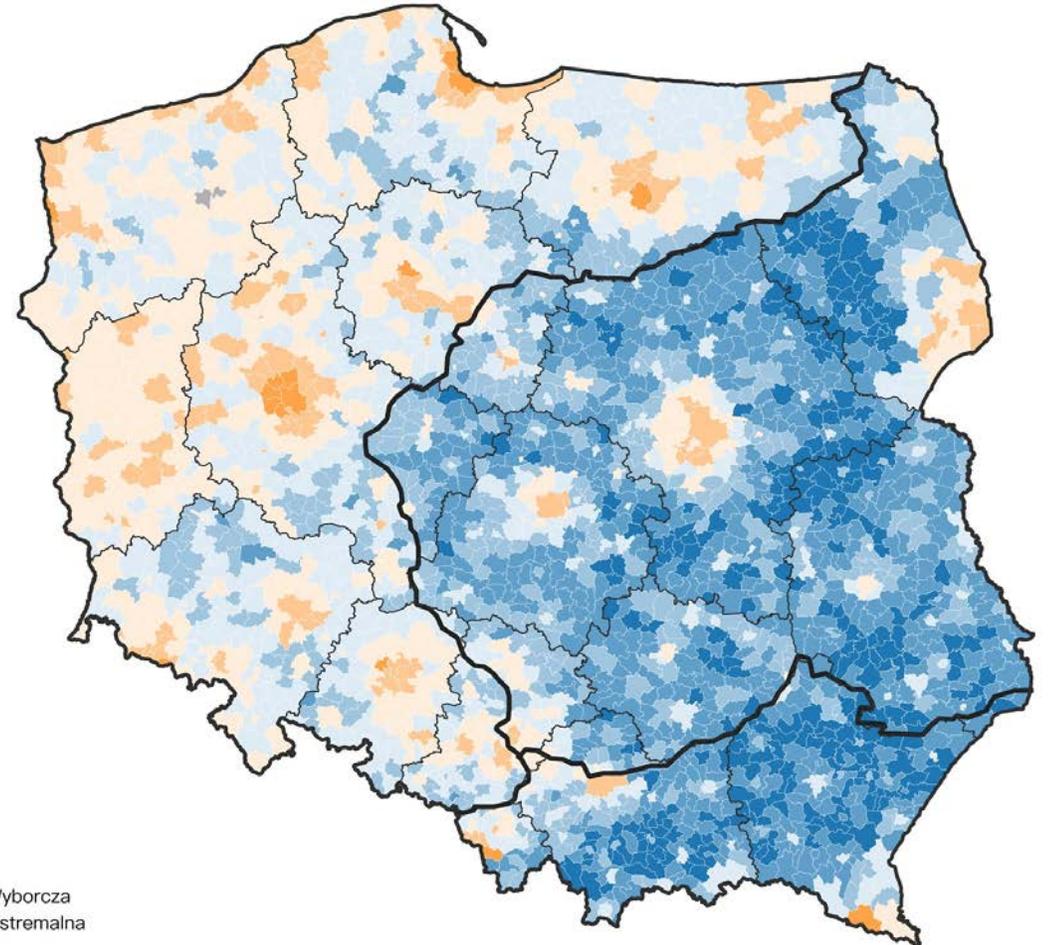
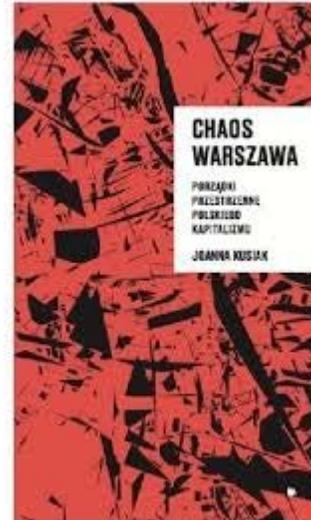
Liberal model of transformation increased polarisation and inequality

Political and social tension

Conservative government vs. liberal metropolitan governance

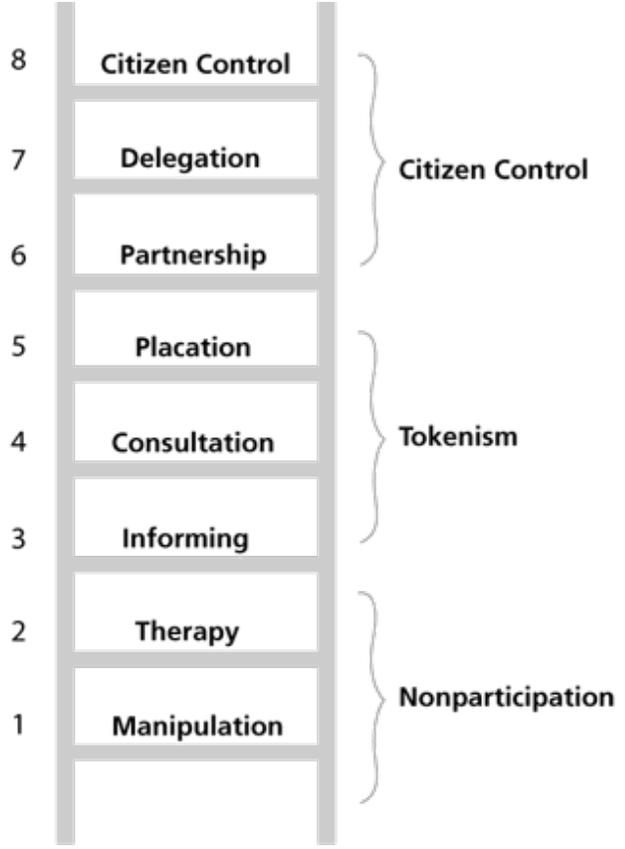
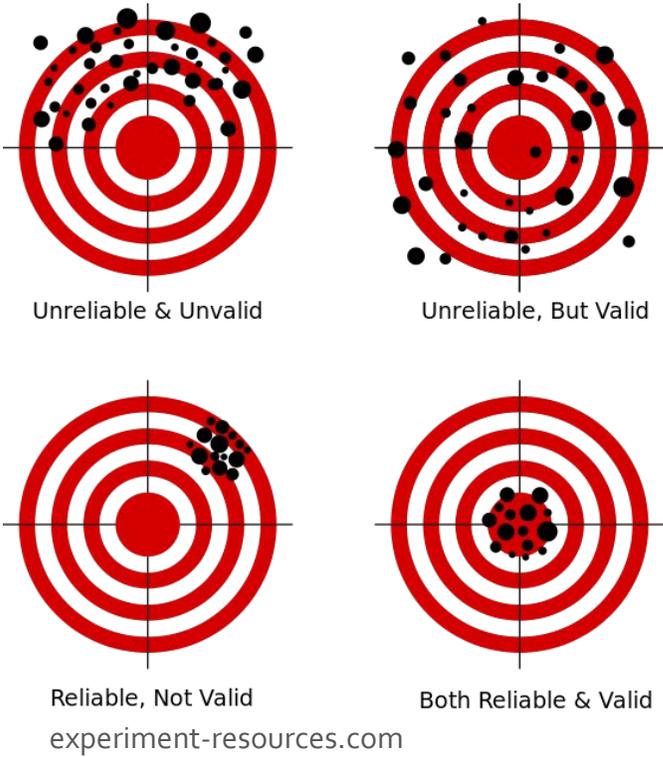
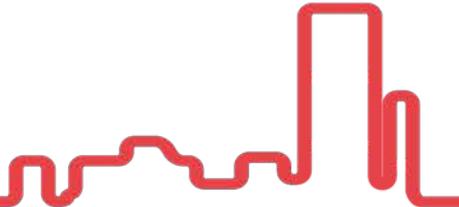
Warsawers vs. Newcomers

Urban sprawl and spatial chaos



Dane: Państwowa Komisja Wyborcza
Opracowanie: Kartografia Ekstremalna

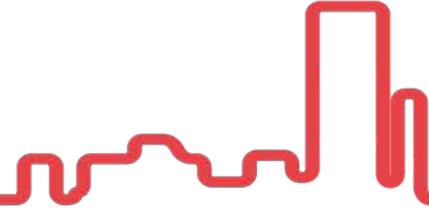
Placing citizen science





UNIVERSITY-DRIVEN CITIZEN SCIENCE

File of nests and broods (1978)



Who: University of Wrocław and everyone with basic ornithology knowledge 16+

Financing: voluntary work

Aim: It is a nationwide program based on the work of honorary collaborators - bird lovers, the purpose of which is to **collect data on the reproductive biology of all species of birds** nesting in Poland.

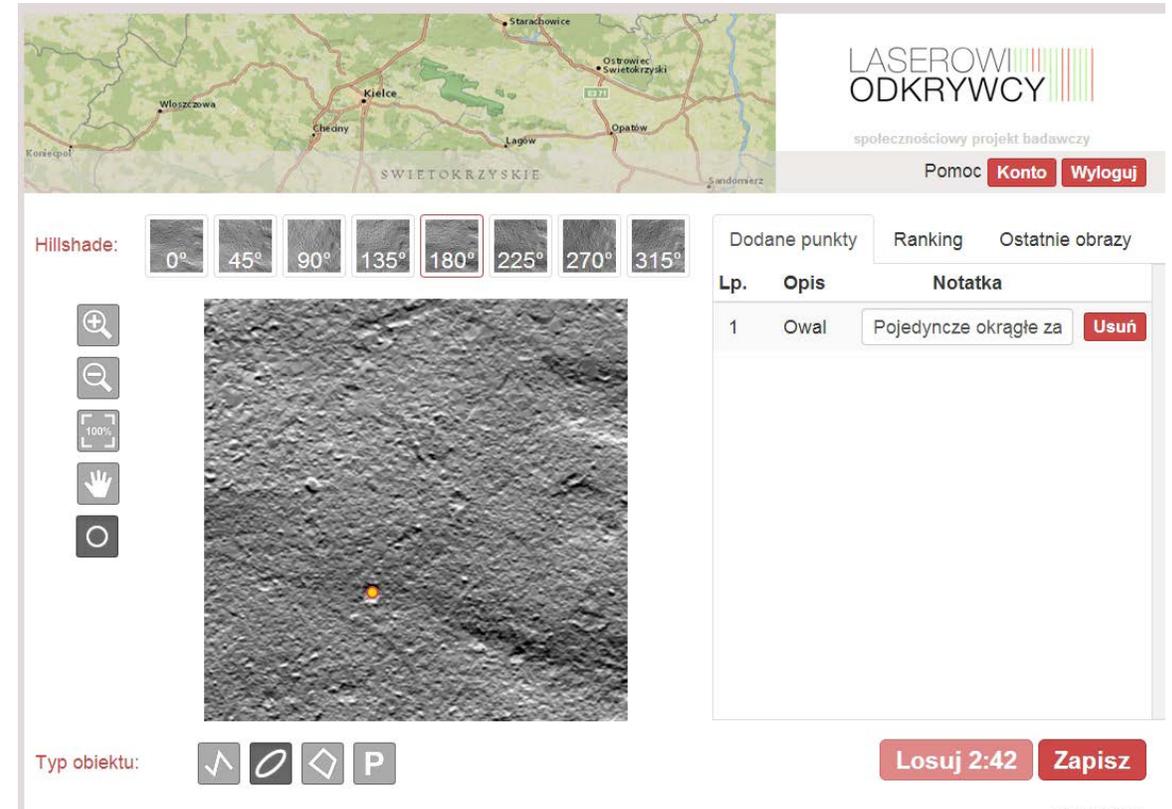
Rodzaj ptaka <i>Phylloscopus sibilatrix</i>		Obserwator Anna Nowak										Rok 11 12 20 06	Nr pary								
Miejscowość, gmina, województwo Białowiecki Park Narodowy, gm. Białowieża, podlaskie		Szer. geogr.			Dł. geogr.			Wys. n.p.m.			Wys. nad ziemią		Wys. roślinności								
Środowisko grąd, dominuje grab i lipa, w podszycie leszczyna, w runie xawilce		20	21	22	N	23	24	25	E	26	27	28	m	29	30	31	cm	32	33	34	cm
Polożenie gniazda gniazdo obok kłody, pod kopą trawy wylot SW		Dzień		Miesiąc		Godzina		L. jaj		L. ptaki		Uwagi									
		1:2		0:5		7:00						mosi trawy - buduje gm.									
		1:4		0:5		7:30		2				siedzi na gm ponad 20 min									
		2:1		0:5		15:00		6				wyleciata z gniazda									
		2:7		0:5		17:00		6				jaja ciepłe									
		3:1		0:5		13:00		1		5		piskleta magie, czerwona wielkości jaja									
		0:3		0:6		10:00		1		+		jajo niezależne									
		1:0		0:6		9:00						gm. puste, brak Tusek rozzerwane, wilgotne									
Konstrukcja gniazda zwite z suchych traw przykryte suchymi liśćmi dębów																					
Nr obrączki samca		Nr obrączki samicy																			

Laser discoverers

Financed: Polish Ministry of Science

Aim: study previously unknown historic buildings located in the area of the present Świętokrzyskie Region.

Who: Internet users, above all **university students**, along with scientists, have a chance to play a key role in identifying and getting to know particularly important historical places.



The screenshot displays the LASEROWI ODKRYWCY website interface. At the top, there is a map of the Świętokrzyskie region in Poland, with various towns labeled. Below the map, the text "LASEROWI ODKRYWCY" is prominently displayed, followed by "społecznościowy projekt badawczy". Navigation buttons for "Pomoc", "Konto", and "Wyloguj" are visible. The main content area features a "Hillshade:" section with a row of buttons for different viewing angles: 0°, 45°, 90°, 135°, 180°, 225°, 270°, and 315°. Below these buttons is a large hillshade image of a landscape, with a small orange dot indicating a specific point of interest. To the left of the hillshade image are several interactive icons: a magnifying glass with a plus sign, a magnifying glass with a minus sign, a "100%" zoom level icon, a hand icon, and a circular icon. Below the hillshade image, there are icons for "Typ obiektu:" (Type of object), including a checkmark, a circle, a square, and a letter 'P'. On the right side of the interface, there is a table with columns for "Dodane punkty" (Added points), "Ranking", and "Ostatnie obrazy" (Last images). The table has a header row with "Lp." (No.), "Opis" (Description), and "Notatka" (Note). Below the header, there is one row with "1" in the "Lp." column, "Owal" in the "Opis" column, and "Pojedyncze okrągłe za" in the "Notatka" column. A red "Usuń" (Delete) button is located to the right of the "Notatka" column. At the bottom right of the interface, there are buttons for "Losuj 2:42" (Randomize 2:42) and "Zapisz" (Save).

Program Globe

Who: A community of half a million students study selected elements of the natural environment on a local scale and share the obtained information on an international forum.

What: Young people measure climatic, hydrological and soil indicators, as well as observe land cover and its changes.

How: The database contains over 100 million measurements from the last 20 years and is updated daily.

In Poland, the content quality is supervised by specialists and scientists.

PROGRAM GLOBE
MIĘDZYNARODOWY PROGRAM EDUKACYJNY W POLSCE

GLOBE in Poland Science and Education What's new? contact Previous page GLOBE

GLOBE SCHOOLS IN POLAND

NEWS

- Summary of the From GLOBE to Erasmus project
- Autumn Sky Watchers go to action!
- Awards for the most active
- Workshop "Environment of inspiration" behind us
- Memories of Toulouse

GLOBE PROJECTS IN POLAND

- MASS-Motivate and Attract Students to Science
- GLOBE IN ACTION. JOIN!**
- "Trees Around the GLOBE" Campaign
- Let's develop a land cover map from the NASA GLOBE Observer
- European Phenological Campaign

UPCOMING EVENTS

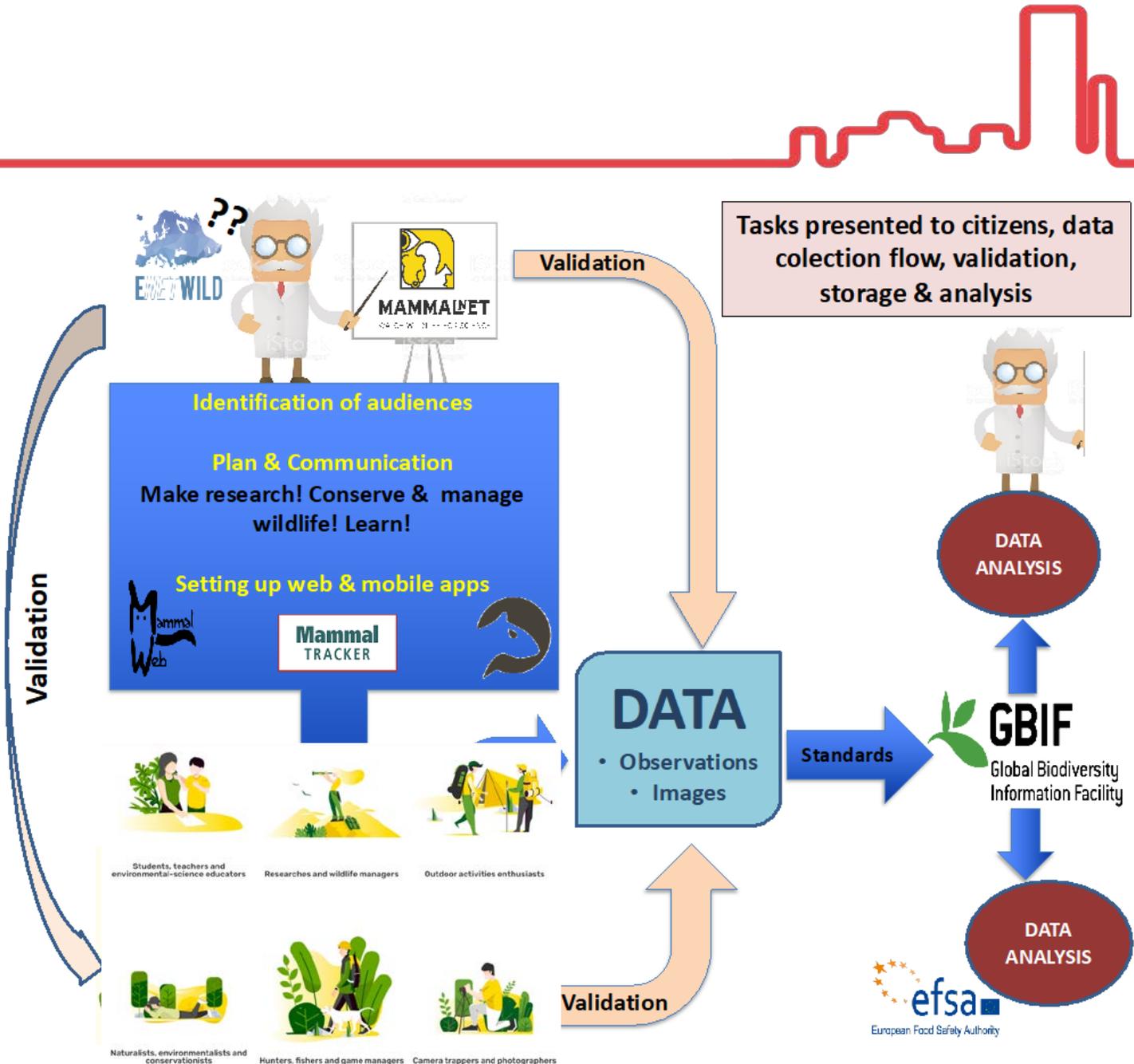
<http://globe.gridw.pl/>

Mammalnet.com

International: PL, HR, ES, DE, financed by European Food Safety Authority (EFSA)

Aims: Collection of camera trap and casual records by professionals and collection of casual records from all participants

Who: researchers, environmental professionals, or wildlife managers, students, pupils, outdoor enthusiasts, hunters, fishers, photographers, environmentalists



PROS

Valid?

Reliable

Replicable

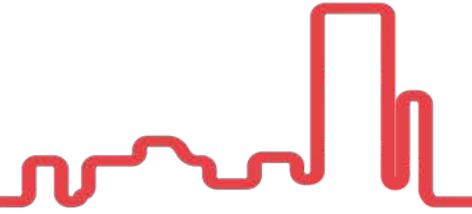
QUESTIONS

Sustainability:

- What happens when project money stops flowing in?
- What happens to the community after the project finishes?

Transdisciplinarity?

Applicable to urban policy?



CITY-DRIVEN CITIZEN SCIENCE



19115 APP: top-down tool, data-sourcing



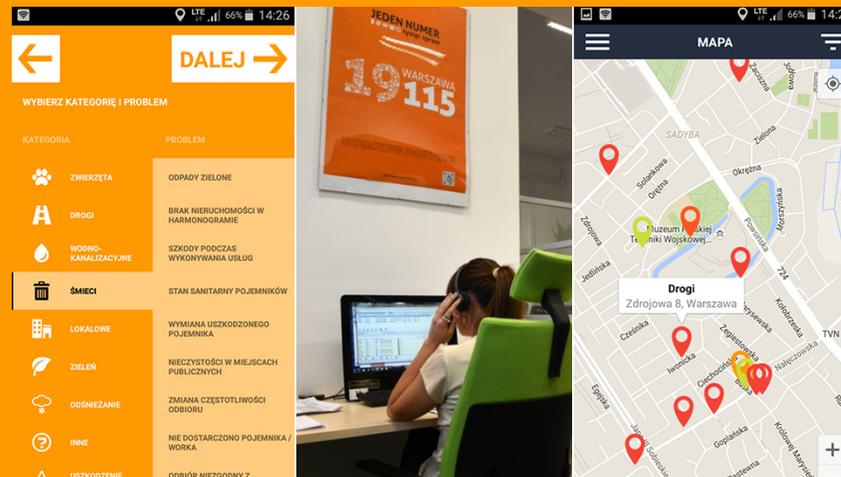
Wyślij zgłoszenie w trzech prostych krokach:

- 1 Zrób zdjęcie
- 2 Wskaż miejsce
- 3 Dodaj opis

MENU

START →

Zmieniamy Warszawę





19115 WARSZAWA
JEDEN NUMER TYSIĄC SPRAW

NARZEKAJ

Drażni Cię zniszczona ławka w parku?
Woda wylewa się na ulicę?
Nie wiesz jak wyrobić dowód osobisty?
Narzekaj, czyli zgłoś.

Konsultanci miejskiego centrum kontaktu 19115 przyjmują interwencje oraz informują o zagrożeniach i sprawach urzędowych dotyczących np. komunikacji miejskiej, dróg, rejestracji samochodu, infrastruktury, architektury, remontów, odpadów komunalnych, wydarzeń. Skontaktuj się z nami.

Zmieńmy Warszawę. Razem

www.warszawa19115.pl 24/7



KAPITAŁ LUDSKI
Komunikacja współfinansowana przez Unię Europejską w ramach Europejskiego Funduszu Społecznego



WARSZAWA19115.PL

- MOJE
- MAPA
- SERWIS POWIADOMIEŃ
- ZAPISZ SIĘ
- MOJE POWIADOMIENIA
- ZMIENIAMY WARSZAWĘ
- WOLNE WNIOSKI
- POSADŹ DRZEWO
- BUDŻET PARTYCYPACYJNY
- INNE
- OPUBLIKACJA

78%

Stać w miejscu, posadzić drzewo

Zobacz drzewo

- posadzone
- zapropozowane
- zapropozowane

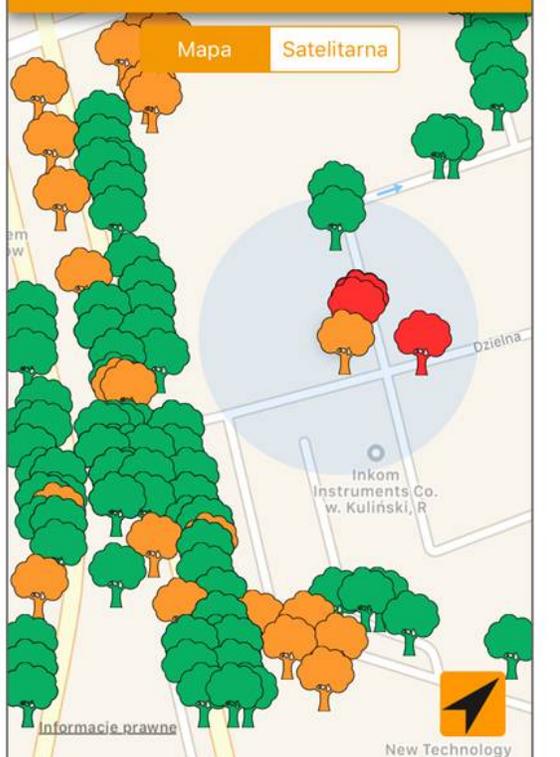
Razem p

Informacje prawne

New Technology

ZGŁOŚ

Mapa Satelitarna



Inkom Instruments Co. w. Kuliński, R

Informacje prawne

New Technology

Example: dane po warszawsku (Data – Warsaw style) initiated by Social Dialogue Commission for Digital Transformation



Dostępne dane

Dostęp do otwartych danych

culture



transport



education



ecology



online data



real-estate



spatial data



safety



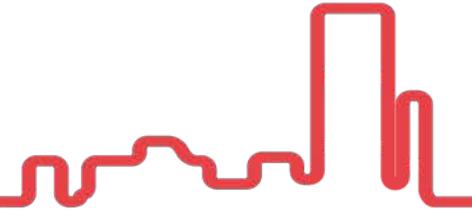
council data



pracownia badań i innowacji społecznych

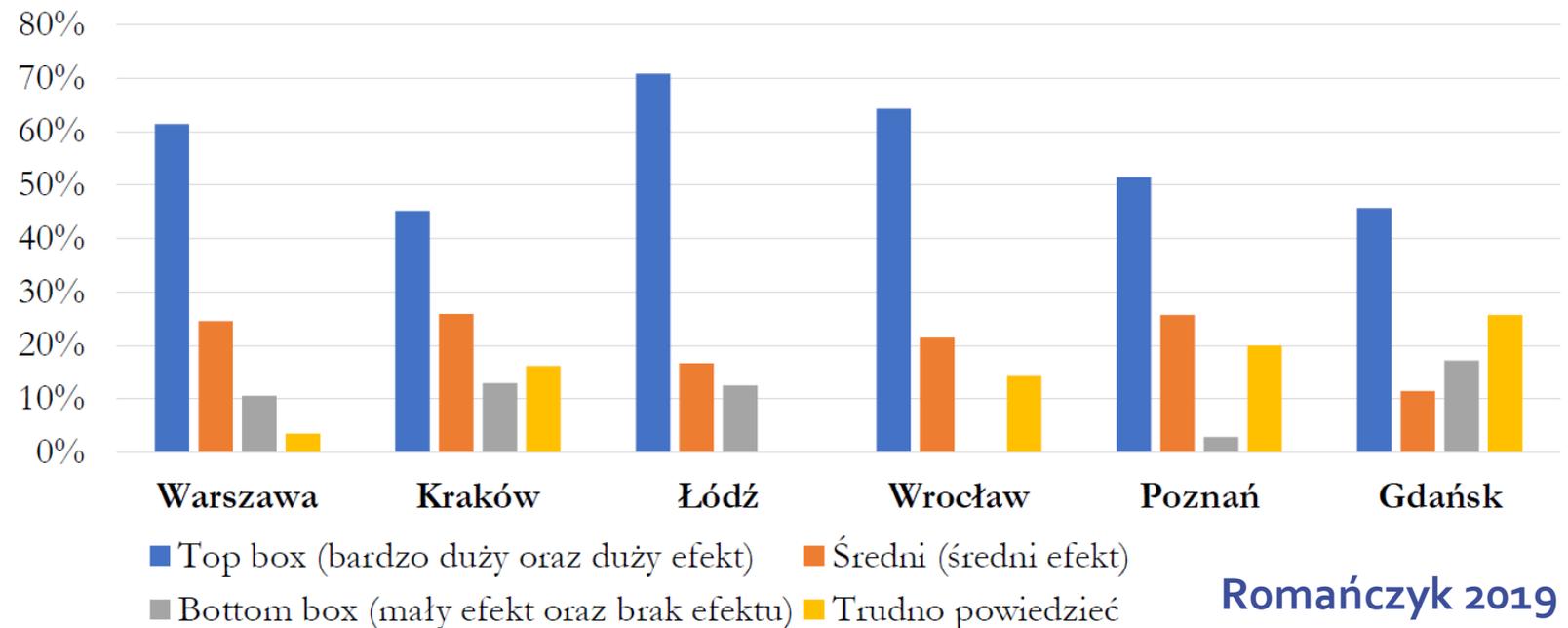


Civic budget projects (since 2010s)



1. Mental health issues
2. Care services for senior citizens
3. Lack of quality public urban spaces
4. Not enough protected housing
5. Growing spatial chaos

Urban policy agenda „white spots”



Romańczyk 2019

PROS

Tailored to policy agenda – therefore politically valid

Tailored to governance structure – applicable by design

Sustainable

QUESTIONS

Prone to political interest:

- Interest dependency - tools work as long they are used by people who share civic values
- Can be dominated by trolls
- Can be dominated by conservative lobbying groups (car parking)

Reliable ?

Innovative?



CITIZEN-DRIVEN CITIZEN SCIENCE

Social bike lane audit (2014)

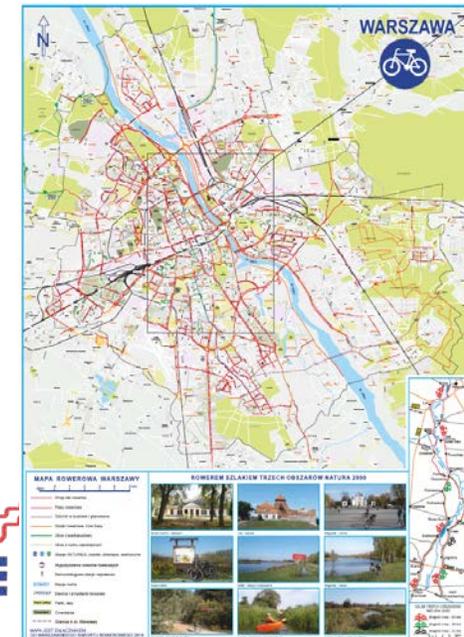
Type: User-based initiative

Financed: NGO grants and EEG grants

Coordination: Zielone Mazowsze NGO as an umbrella coordinator

Success story: identification of bad practice, bottle-necks and priority areas, lobbying and good-practice mainstreaming

Results: new coordinator for bike transport, more intentional policy, annual bike reports, updated bikelane map



<http://rowery.um.warszawa.pl/mapa-rowerowa>



OpenTreeMap

Type: combination of public data and user-data, Proof of concept, Development

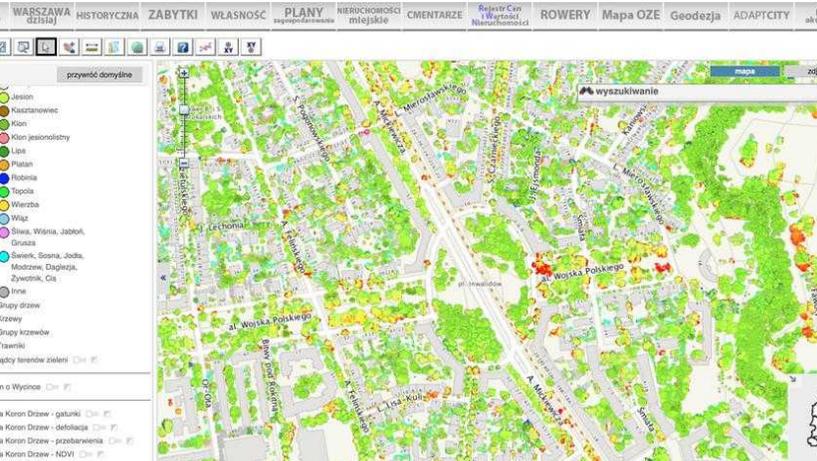
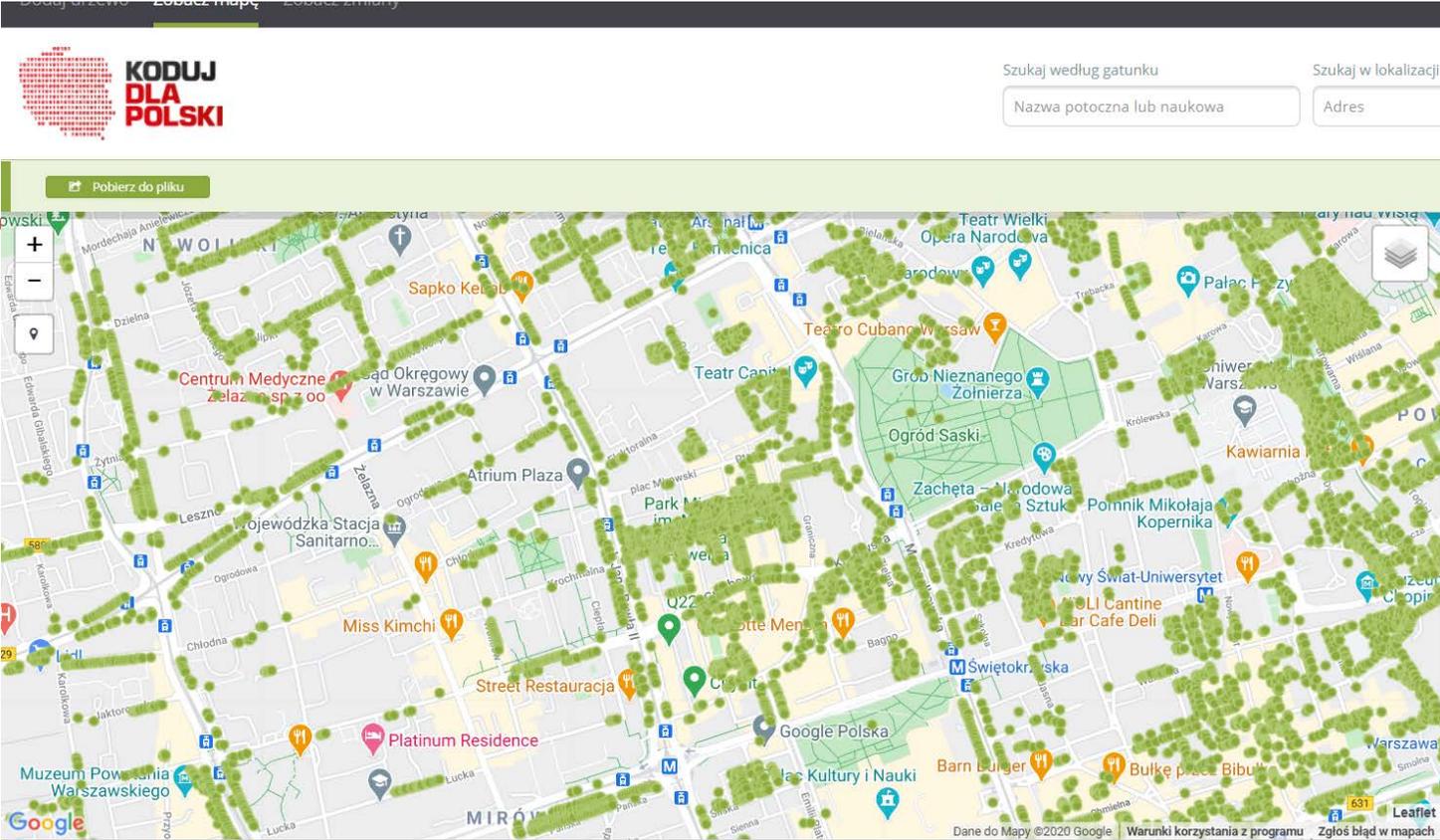
Coordination: Code for Poland

Project status: Dedicated: For the media, For organizations, For cities, For watchdogs

Technologies: Django, Python

Aims: Protect trees (against felling), Inventory, Cost / benefit analysis of tree maintenance, community involvement

Results: Warsaw city formal tree audit project



MIASTO JEST NASZE



City is ours

Activity: urban movements, watch-dogs,

Strategy: controversies, happening, media-friendly content, pilot projects + good practice mainstreaming

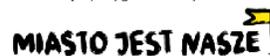
Data: public or civic-sourced, validity check

Success story: impact and pressure, entry to city council

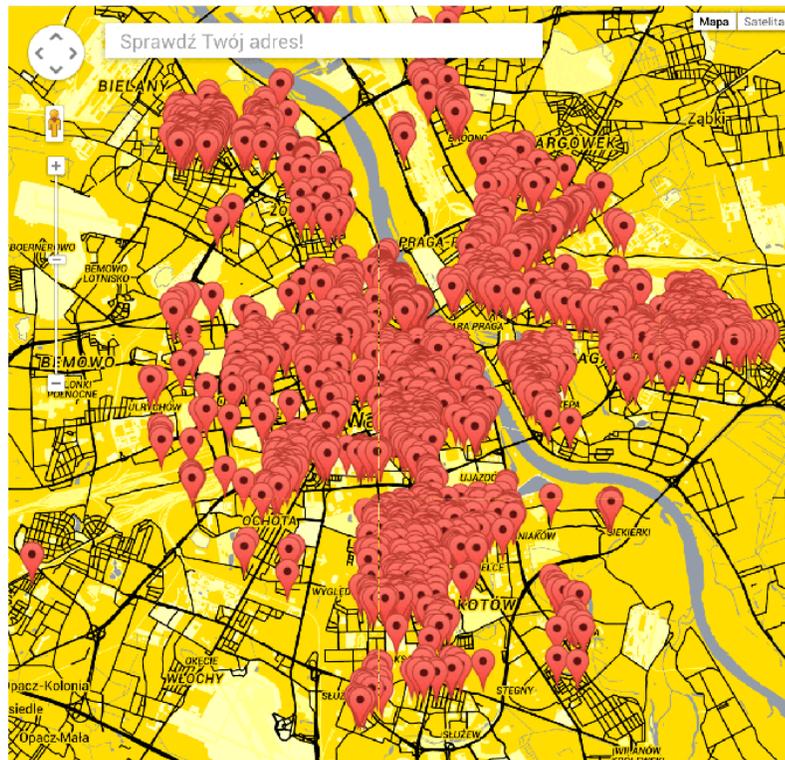
Mapa roszczeń dekretowych

Na terenie naszego miasta ponad 1500 nieruchomości jest zagrożonych reprivatyzacją na podstawie dekretu Bieruta!
Sprawdź, czy Twój dom, Twoje podwórko, Twój ulubiony park, szkoła lub przedszkole Twoich dzieci nie znajdują się na liście

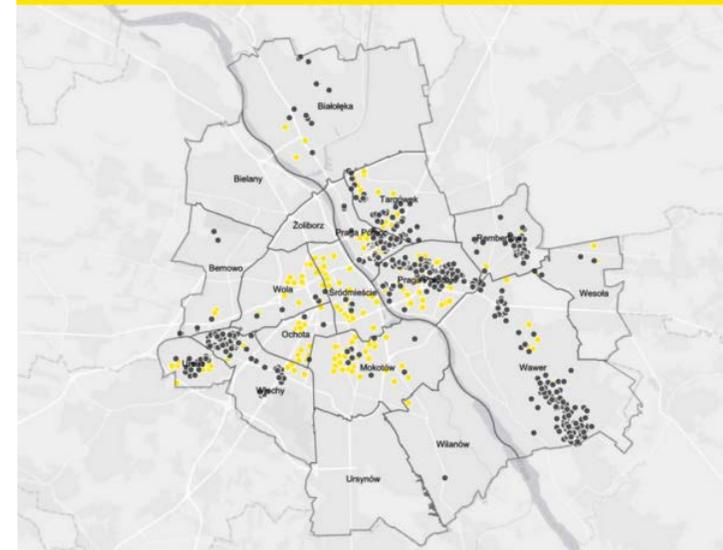
Mapa przygotowana przez:



Udostępnij mapę:



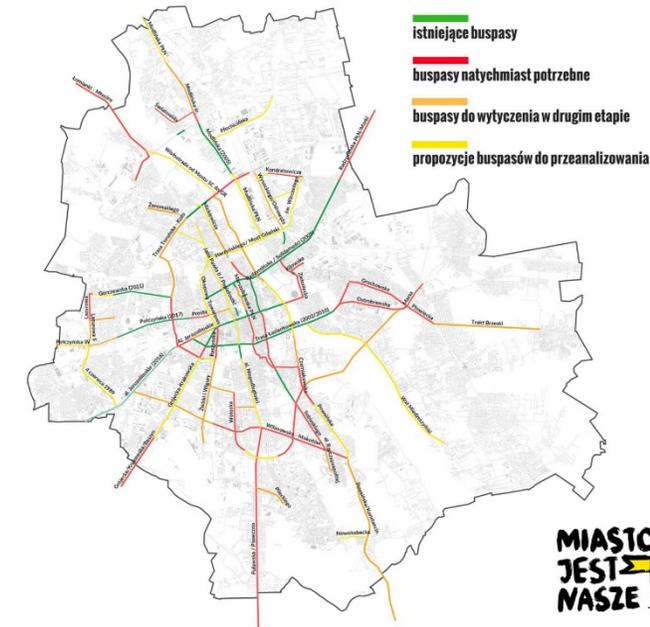
PONAD 1900 MIEJSKICH PIECÓW NA WĘGIEL
ZWIĘKSZA SMOG W WARSZAWIE



smog.miastojestnasze.org

MIASTO JEST NASZE

MAPA SIECI BUSPASÓW PROPONOWANYCH PRZEZ MIASTO JEST NASZE



MIASTO
JEST
NASZE

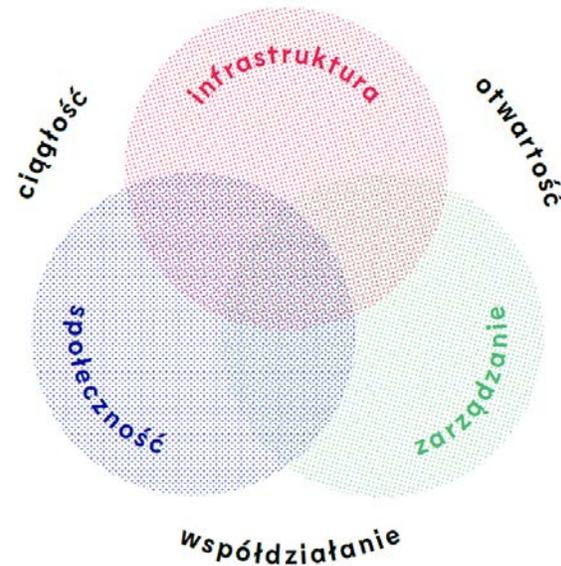
Community-management model for Jazdów Settlement

Location: Jazdów settlement / colony of wooden Finnish houses

Purpose: social and cultural participation, creating and developing the first community-led area in Warsaw

Who: artists, activists, architects, former inhabitants

Bottom-up planning: democratic, bottom-up approach, participatory methodology, initiatives based on European best practice, anti-manifesto



OTWARTY JAZDÓW

wesprzyj wydarzenia mapa historia współzarządzanie partnerstwo pytania raporty En



domki fińskie zostają,
utrwalmy Osiedle Jazdów



PROS

Recognisable: media-friendly and socially valid

Innovative, visionary, progressive and often applicable by design

Reliable?

Sustainable?

QUESTIONS

Prone to political controversy:

- Critical approach might cause resentment on governance side
- Advocacy of middle-class values

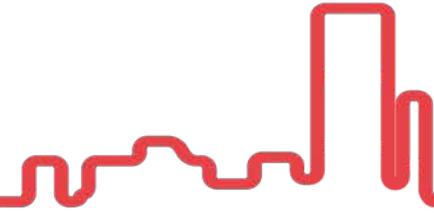
Risk of addressing surface issues

Academic validity

Conclusions

- Complementary approaches
- Third mission of the University: targeting public and civic sectors – how to motivate researchers and coordinate activities?
- Trans-sectoral, multidisciplinary projects - IdeaLab
- Digital tools
- Community building
- Increasing sustainability of citizen science projects
- Governance-friendly design of results and recommendations





Thank you!
and many thanks to all contributors

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