

Workshop on Ethics in Modern Statistical Organizations
Geneva, 26 - 28 March 2024

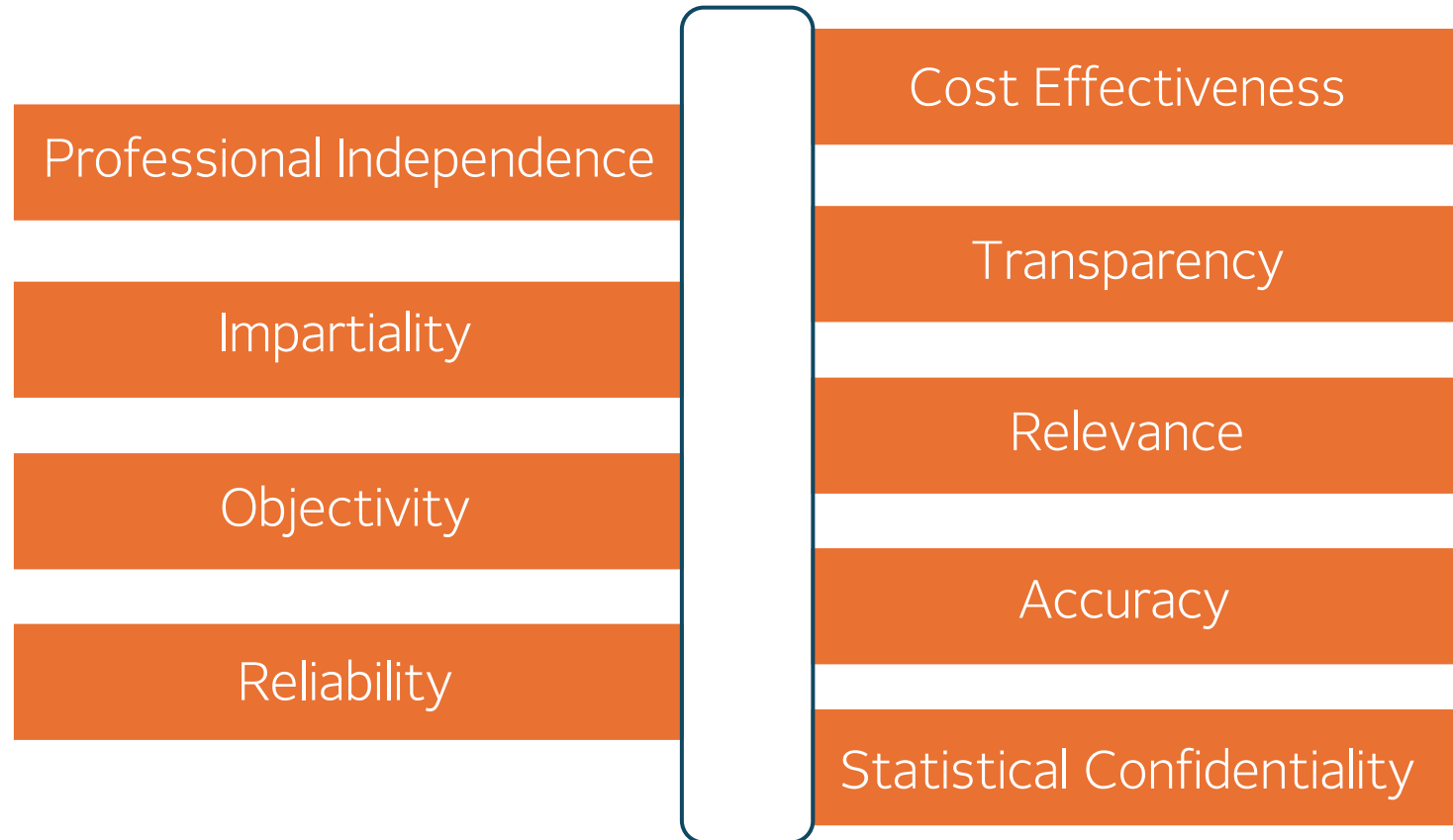
THE ROLE OF GEOINFORMATION IN ETHICS WITHIN MODERN STATISTICAL INSTITUTIONS - ALBANIAN CASE

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- Principles of ethics and legal framework
- GIS at Statistics Albania
- Location-based data, fundamental for modernizing statistics
in Albania
- Geospatial data and confidentiality
- Future plans



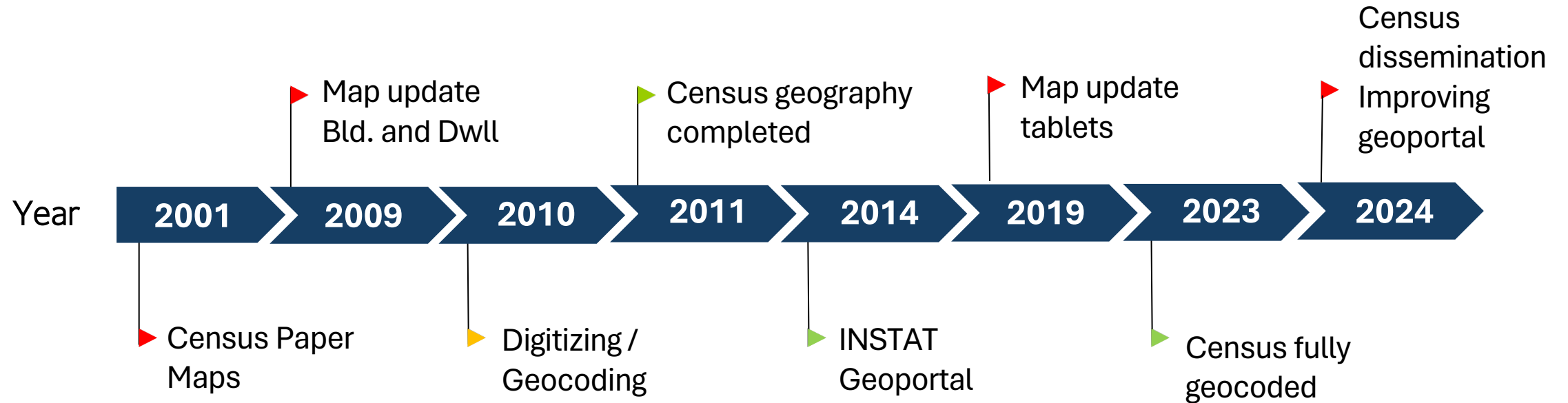
The national statistical legislation ensures the implementation of ethics aspects in terms of statistical principles:



- The principles are in line with **UN Fundamental Principles of Official Statistics** and **European Statistics Code of Practice**
- Structures to ensure the implementation of ethics principles:
 - The Statistical Council
 - Confidentiality Committee on Confidentiality
 - Quality Committee

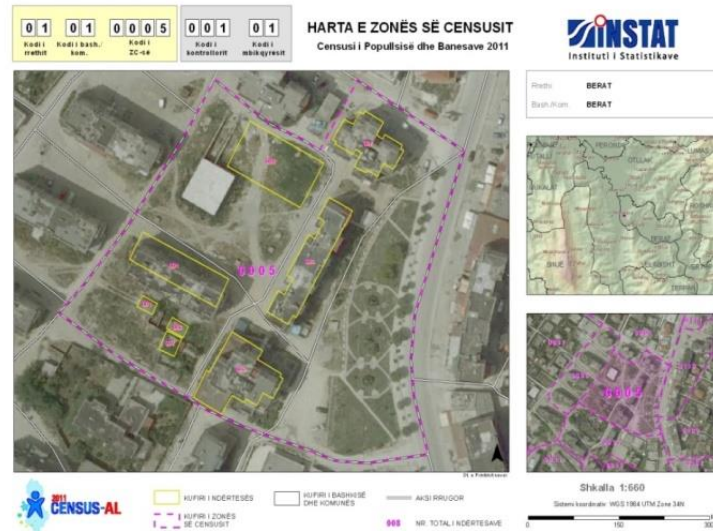


- Legal act on ethics on public administration
- INSTAT's Code of Ethics - a tool to encourage discussions about ethics and improve attitudes or reactions at work
- A dedicated structure for monitoring ethics within INSTAT
- INSTAT's Internal Regulation

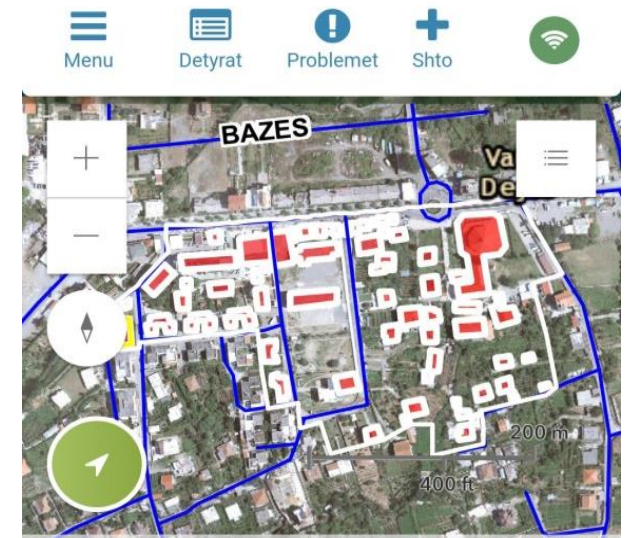




2001

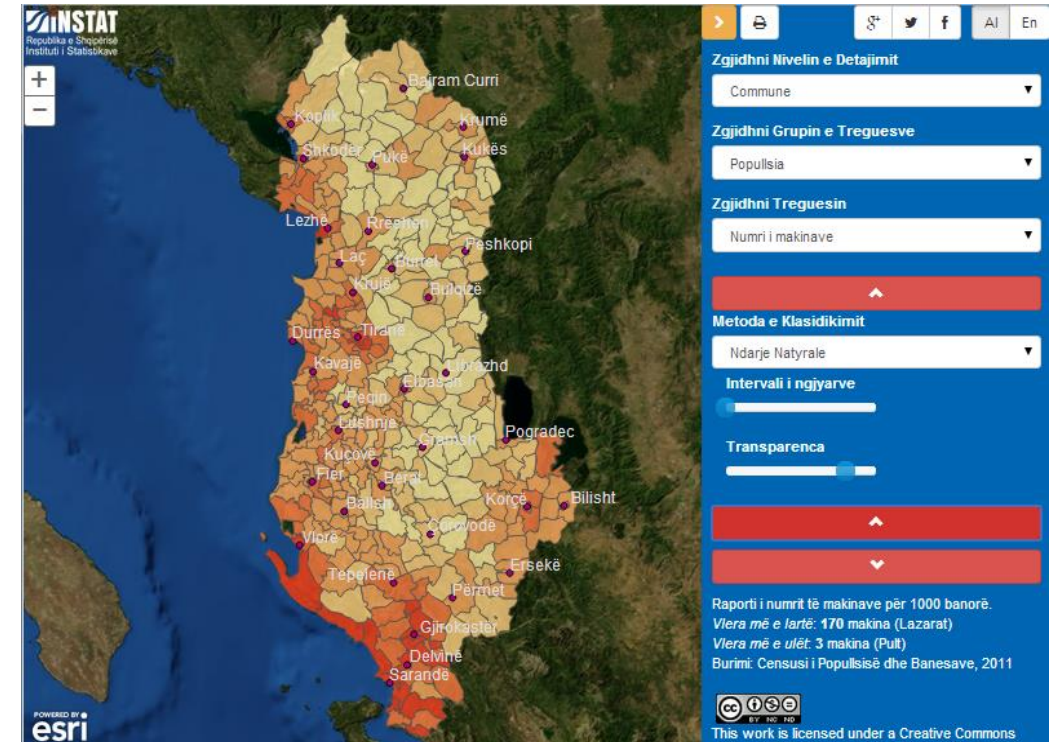
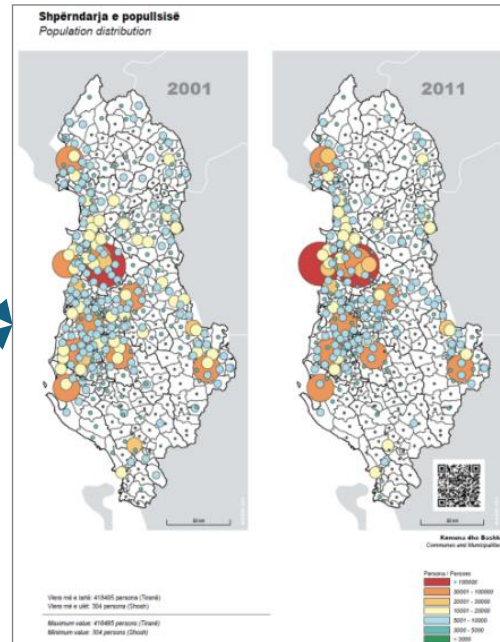
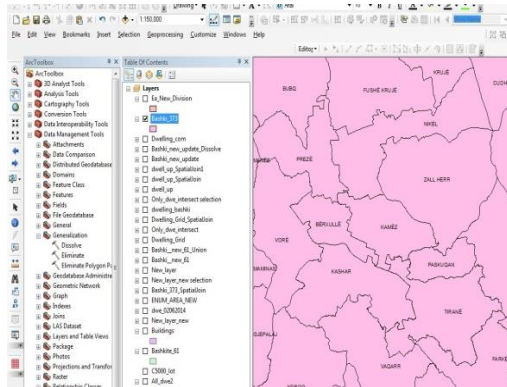


2011

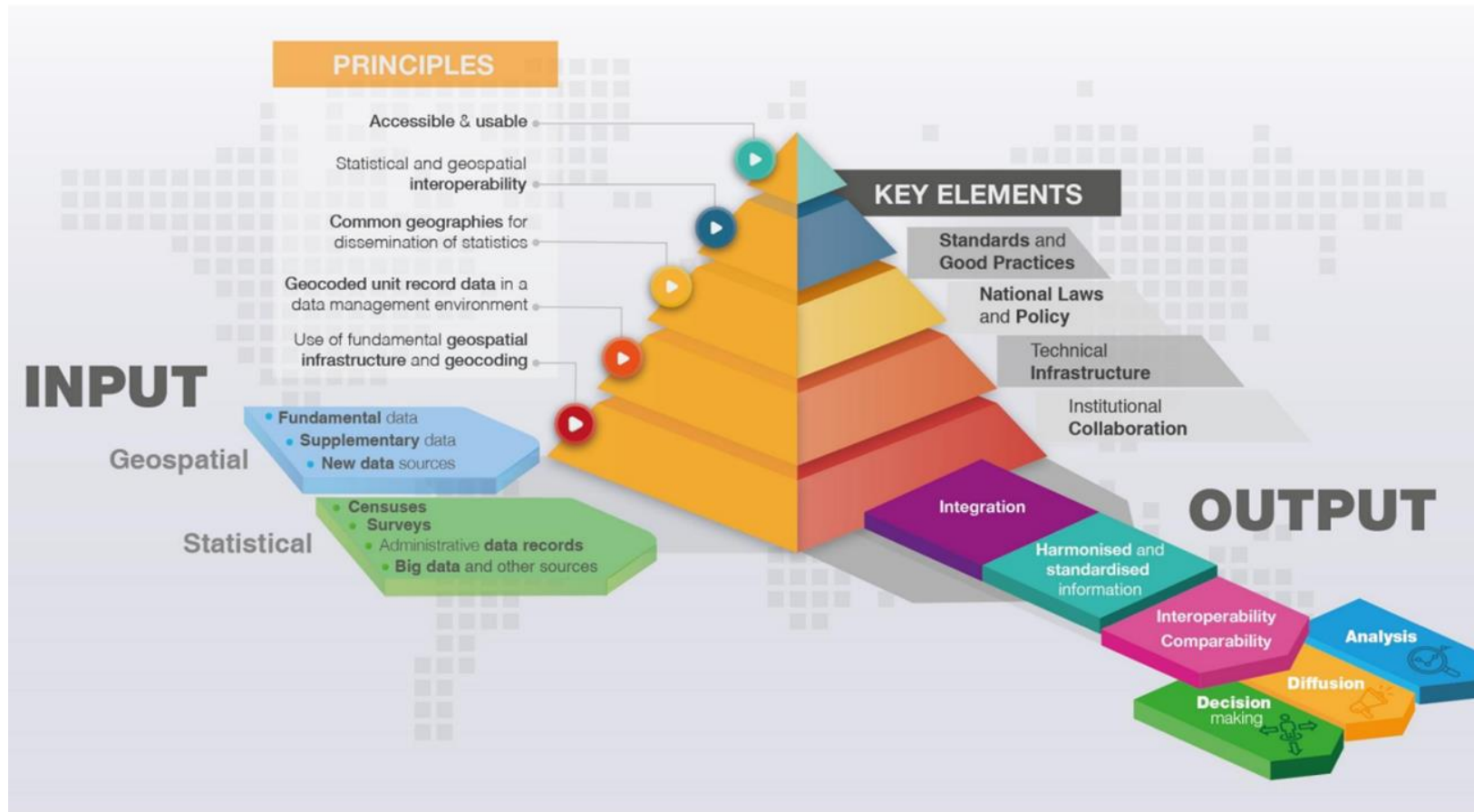


2023

	A	B	C	D	E	F	G
3	Households by number of members						
4							
5	Prefecture	Urban					
6	s	1	2	3	4	5	6+
7	Gjithsej	30446	74307	74805	97683	54914	38895
8	BERAT	1515	4544	4027	4418	2280	1483
9	DIBER	274	1020	1494	2429	1812	1374
10	DURRES	2698	7367	7432	10762	6498	5054
11	ELBASAN	2231	5706	6120	8464	4767	3207
12	FIER	2199	7338	6849	8304	4425	2905
13	GJIROKA	1025	2604	2491	2834	1324	747
14	KORCE	2637	6078	5390	6631	3222	2126
15	KUKES	181	641	825	1448	1344	1500
16	LEZHE	799	2325	2188	3156	2290	1970
17	SHKODE	2303	4853	4335	5878	3931	3158
18	TIRANE	11779	24897	27543	35593	18577	12875
19	VLORE	2805	6934	6113	7766	4444	2496



- **Supporting** processes for surveys and censuses
- **Improving** data accuracy
- **Verifying** and quality control
- **Reducing** errors and inaccuracies
- **Analysis and visualization** of statistics (printed and digital maps, web maps) potentially increasing the understanding of information
- **Monitoring** and ensuring rapid interventions by finding quick solutions
- Establishing a statistical register of buildings and dwellings



[1] The Global Statistical Geospatial Framework - Statistics Division, Department of Economic and Social Affairs, United Nations - https://unstats.un.org/unsd/statcom/51st-session/documents/The_GSGF-E.pdf

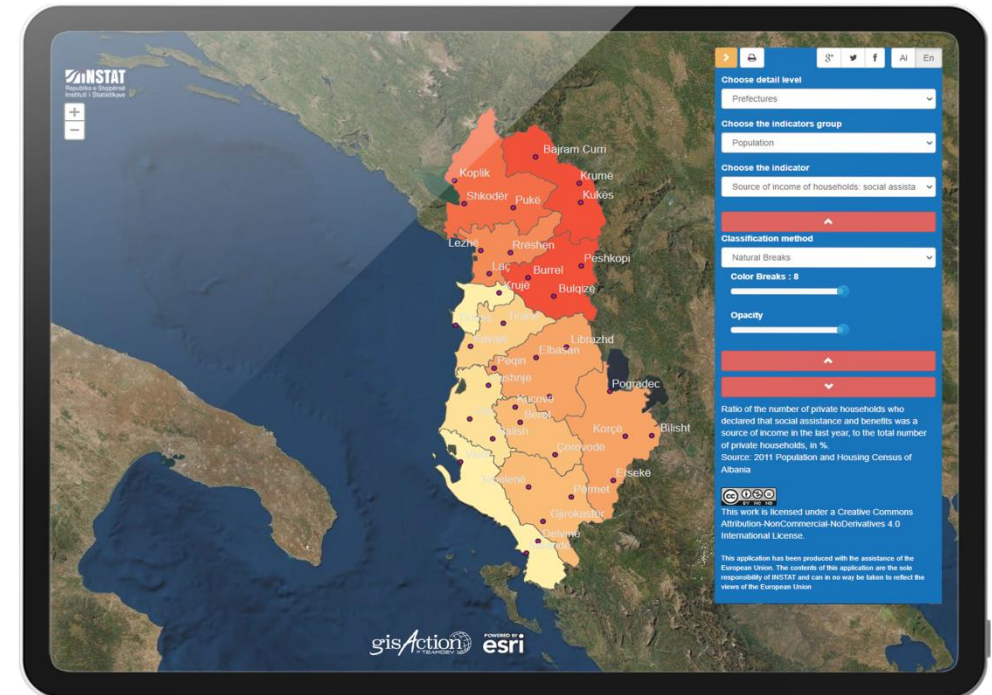
- **Data ethics in geospatial statistics** is a crucial consideration due to the sensitive nature of location-based information and its potential impact on individuals and communities

Key aspects of data ethics in geospatial statistics:



INSTAT Geoportal since 2014:

- Innovation within the framework of increasing the role of geostatistics
- Possible comparison of geographic distribution of statistical data
- New approach to users
- Increasing data transparency and communication with users
- Enrichment with regional indicators



INSTAT Geoportal since 2014 :

3 levels of presentation:

Prefectures

Municipalities

1 km² grid

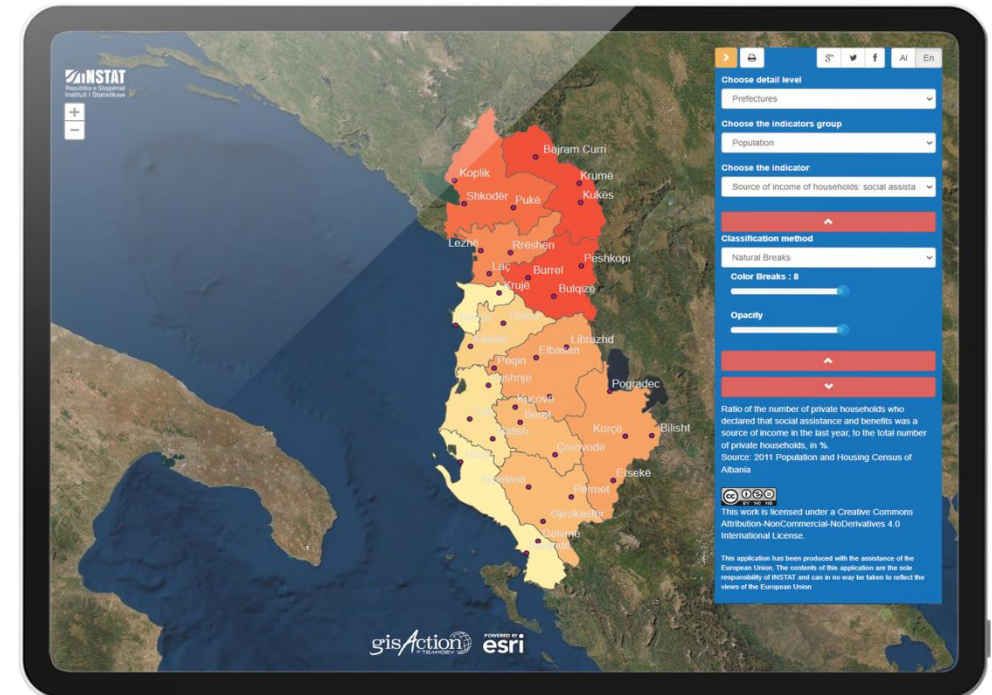
Themes of Census 2011:

Population

Education and Employment

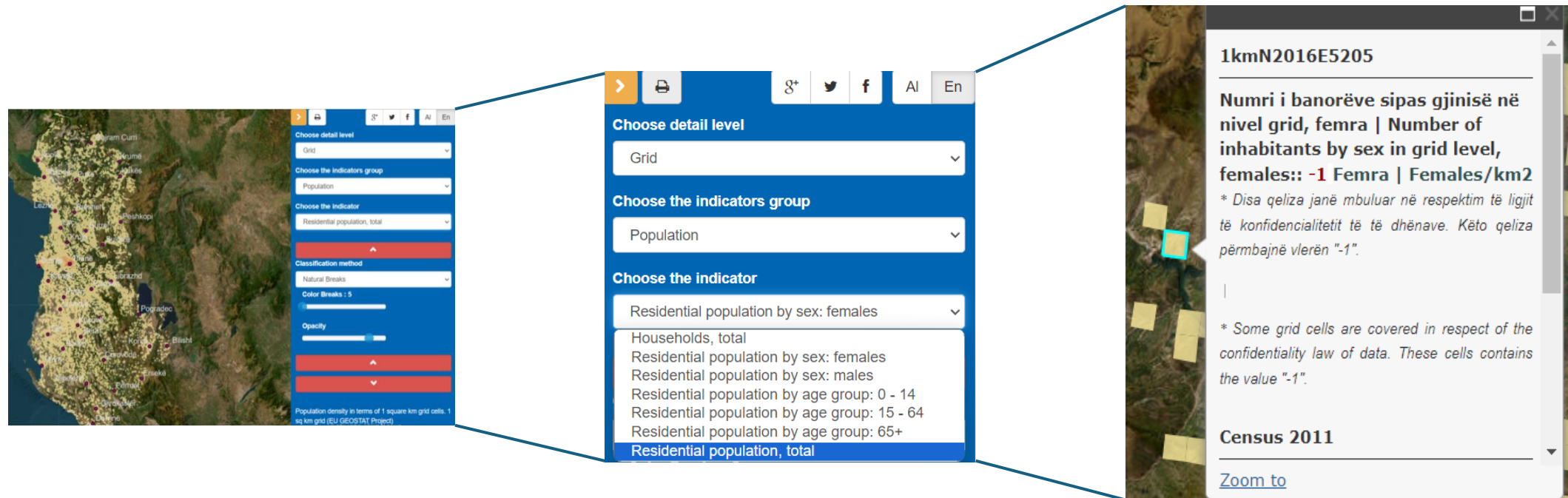
Housing and Living Conditions

General and Regional Statistics, since 2019



Grid-based statistics towards the integration of statistical and geospatial information

Grid-based typology for Albania in 2014, a study on urban and rural population based on a method proposed by the EC at 1 km² grid, following INSPIRE Directive



The screenshot displays the INSTAT Geoportal interface. On the left, a map of Albania is shown with a 1 km grid overlay. The sidebar on the left contains the following settings:

- Choose detail level: Grid
- Choose the indicators group: Population
- Choose the indicator: Residential population, total
- Classification method: Natural Breaks
- Color Breaks: 5
- Opacity: [Slider]

The main panel on the right shows the following selection options:

- Choose detail level: Grid
- Choose the indicators group: Population
- Choose the indicator: Residential population by sex: females

The selected indicator list includes:

- Households, total
- Residential population by sex: females
- Residential population by sex: males
- Residential population by age group: 0 - 14
- Residential population by age group: 15 - 64
- Residential population by age group: 65+
- Residential population, total

A pop-up window titled "1kmN2016E5205" provides detailed information for a specific grid cell:

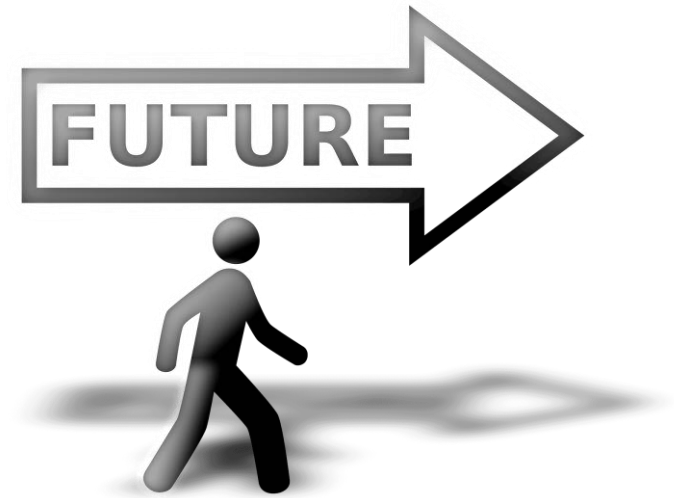
Numri i banorëve sipas gjinisë në nivel grid, femra | Number of inhabitants by sex in grid level, females:: -1 Femra | Females/km2

** Disa qeliza janë mbuluar në respektim të ligjit të konfidencialitetit të të dhënave. Këto qeliza përmbajnë vlerën "-1".*

Census 2011

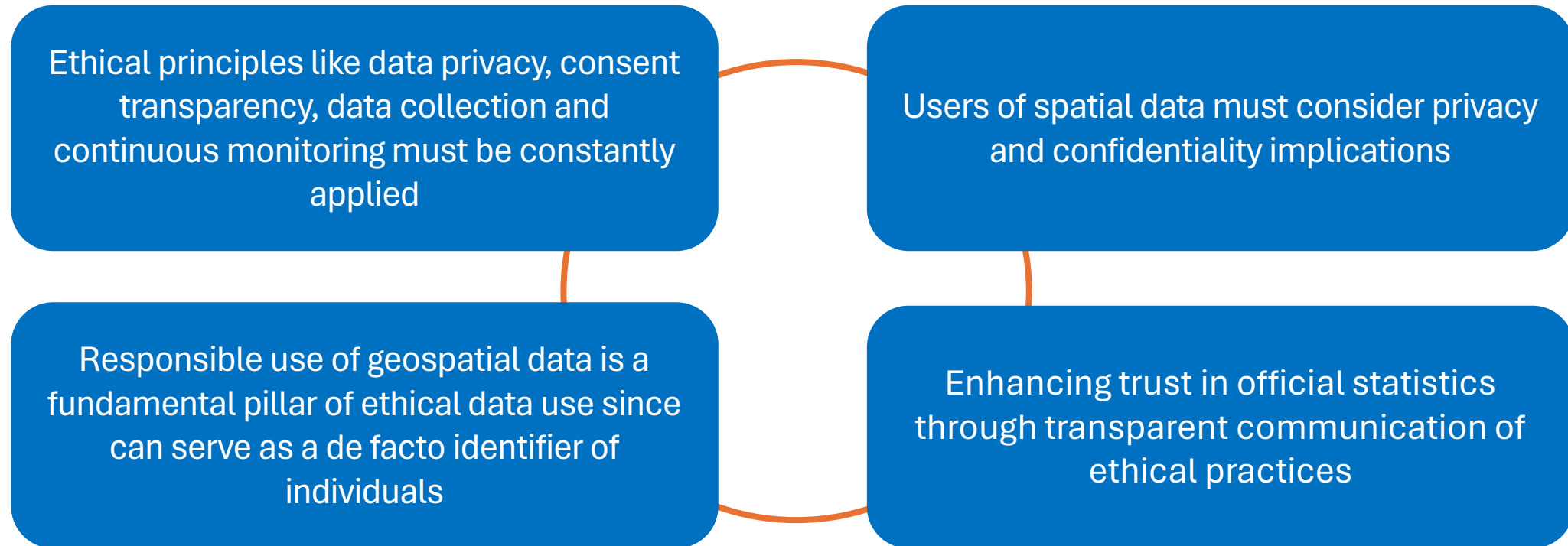
[Zoom to](#)

- Improving Geoportal following the international recommendations on regard of :
 - Confidentiality
 - Transparency
 - Public engagement
 - Data reusable
 - Enrichment with Census and socio-economic data
- To visualize grid population data at 1 km² with Census 2023 indicators (13 indicators), based on Commission Implementing Regulation (EU) 2018/1799



- Implementation of ASRBD for statistical purposes which together with the statistical population register will serve as a key element to implement a register-based Population Census in the future
- Assessment of the existing national legislation and formulation of the proposed changes needed for the setup and functioning of the Register, including data protection and data exchange issues
- Transforming our geographical data according to NSDI in the Republic of Albania and data specification of INSPIRE, responsible for two themes; Population Distribution (PD) and Statistical Units (SU)

Main Points to Focus



Thank you for your attention!

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