User Uptake of Copernicus Services

for Landscape and Spatial Planning Stakeholders

Survey among current and potential end user in Poland

September 2024

This document presents the results of a survey conducted to assess the usage of Earth Observation products and services among end users in the context of Copernicus Services for Landscape and Spatial Planning stakeholders. The survey was carried out online in 2024, targeting public administration entities. Invitations to participate in the survey were sent via email to over 2 800 entities, including all municipalities and Marshal's offices in Poland. Additionally, the invitation was shared to potential end-users at various national events related to landscape and spatial planning.

The aim of the survey was to assess the whether and how Copernicus services are used by end users in Poland, in the context of landscape and spatial planning. A total of 438 surveys were completed, and the results are analysed in this report.

The survey was conducted by CBK PAN / Earth Observation Department, within User Uptake of Copernicus Services for Landscape and Spatial Planning Stakeholders action of FPCUP project.

The survey consisted of 9 questions. The results will be presented in the following chapters through charts to provide a clear synthesis and overview of the results. More detailed analysis is planned for publication at the beginning of 2025.

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1. Which products (of CLMS and other geospatial datasets) do you know and use?

The question was supposed to facilitate the estimation of knowledge regarding various Copernicus Land Monitoring Service (CLMS) products. For each product, responders were asked to declare on the three levels:

- I know this product
- I know the product and use it
- I don't know this product.

The following charts summarise the responses obtained from the survey. In addition to questions regarding CLMS products (Figures 1-7), we also inquired about other useful geospatial datasets. These include resources such as the national geoportal, S2GLC - Poland Land Cover maps, the national topographic database, OpenStreetMap (Figures 8-11).

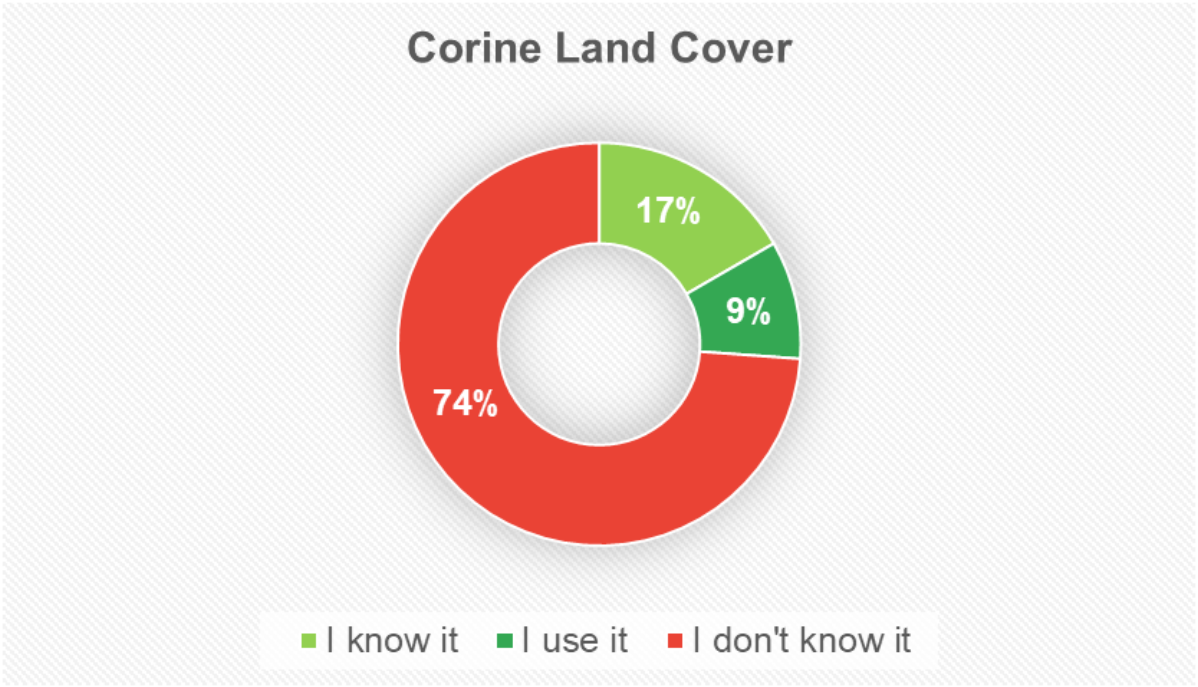

Figure 1. Product awareness survey results - Corine Land Cover. Survey performed among landscape and spatial planning stakeholders.

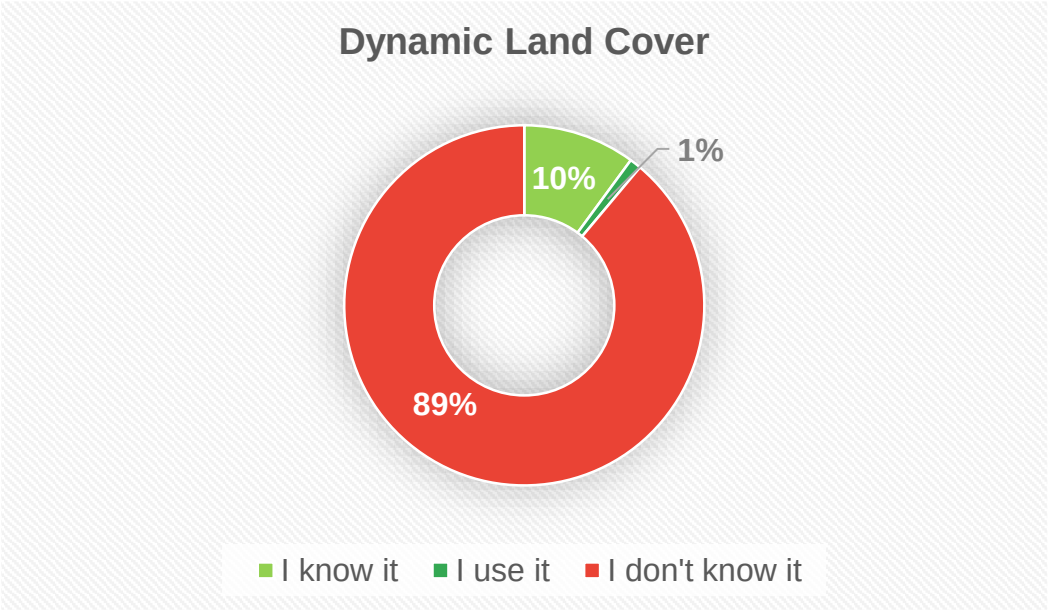

Figure 2. Product awareness survey results - Dynamic Land Cover. Survey performed among landscape and spatial planning stakeholders.

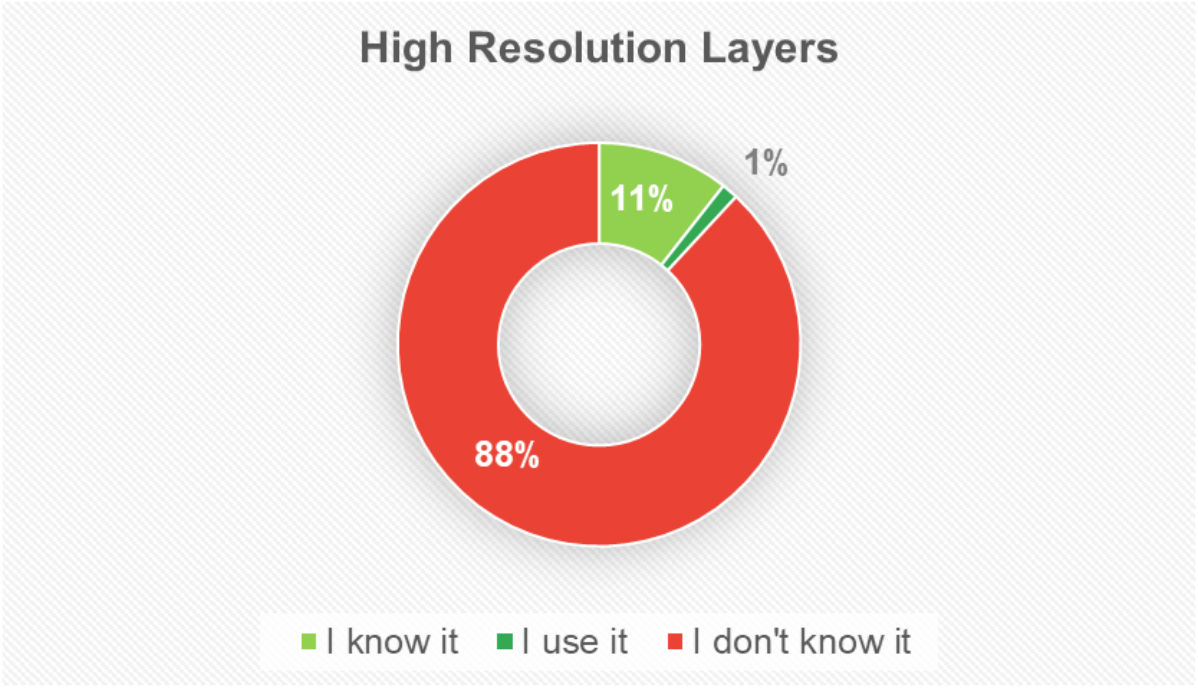

Figure 3. Product awareness survey results - High Resolution Layers. Survey performed among landscape and spatial planning stakeholders.

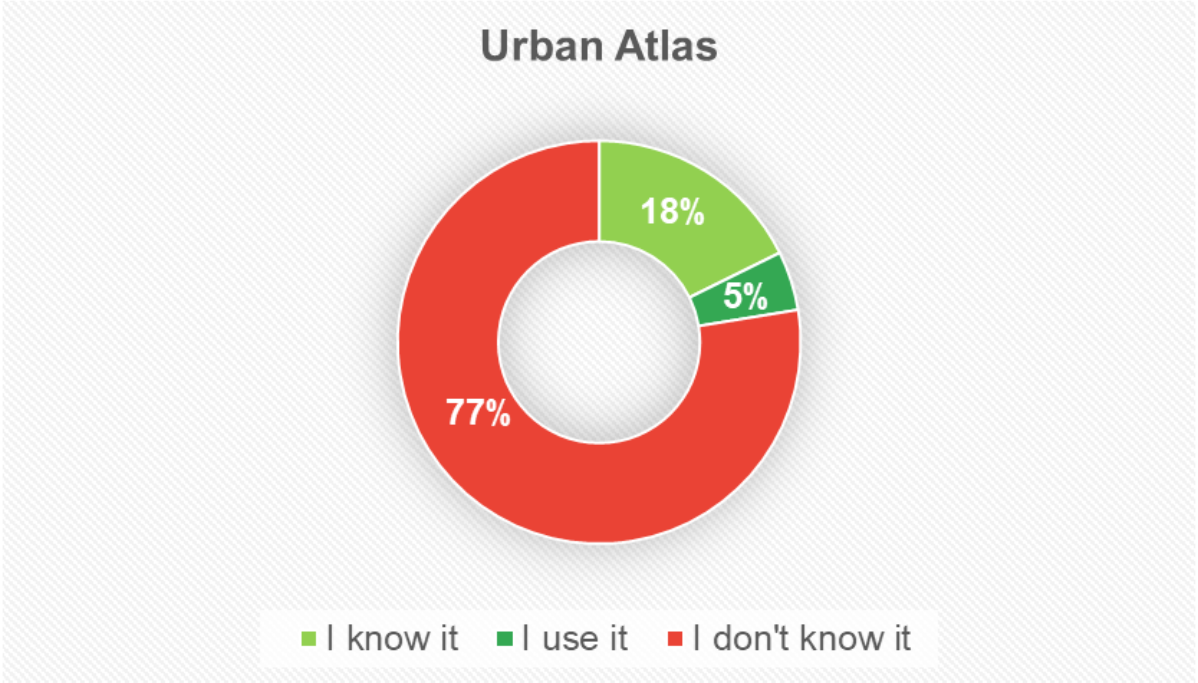

Figure 4. Product awareness survey results - Urban Atlas. Survey performed among landscape and spatial planning stakeholders.

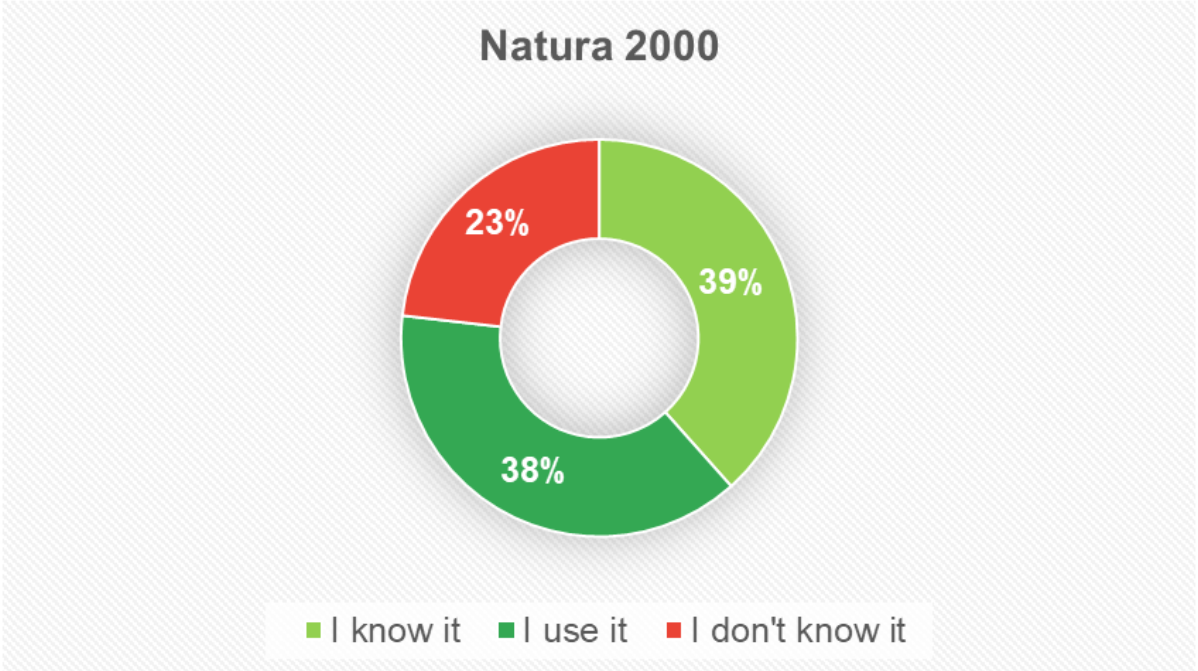

Figure 5. Product awareness survey results - Natura 2000. Survey performed among landscape and spatial planning stakeholders.

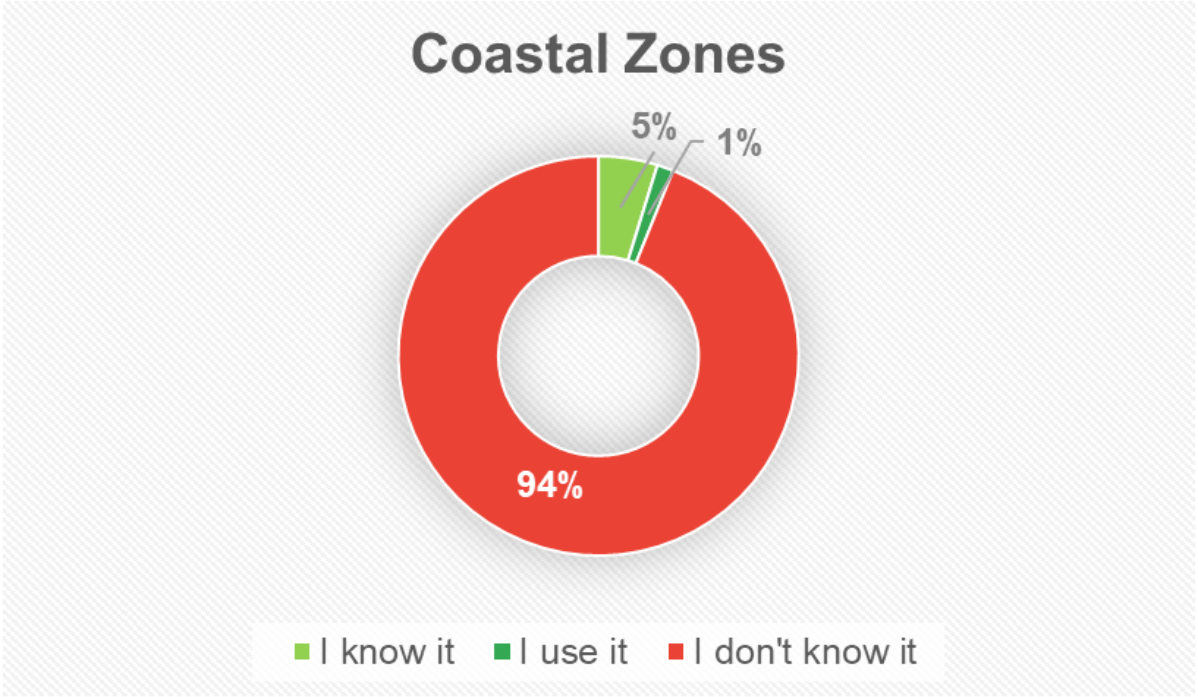

Figure 6. Product awareness survey results - Coastal Zones. Survey performed among landscape and spatial planning stakeholders.

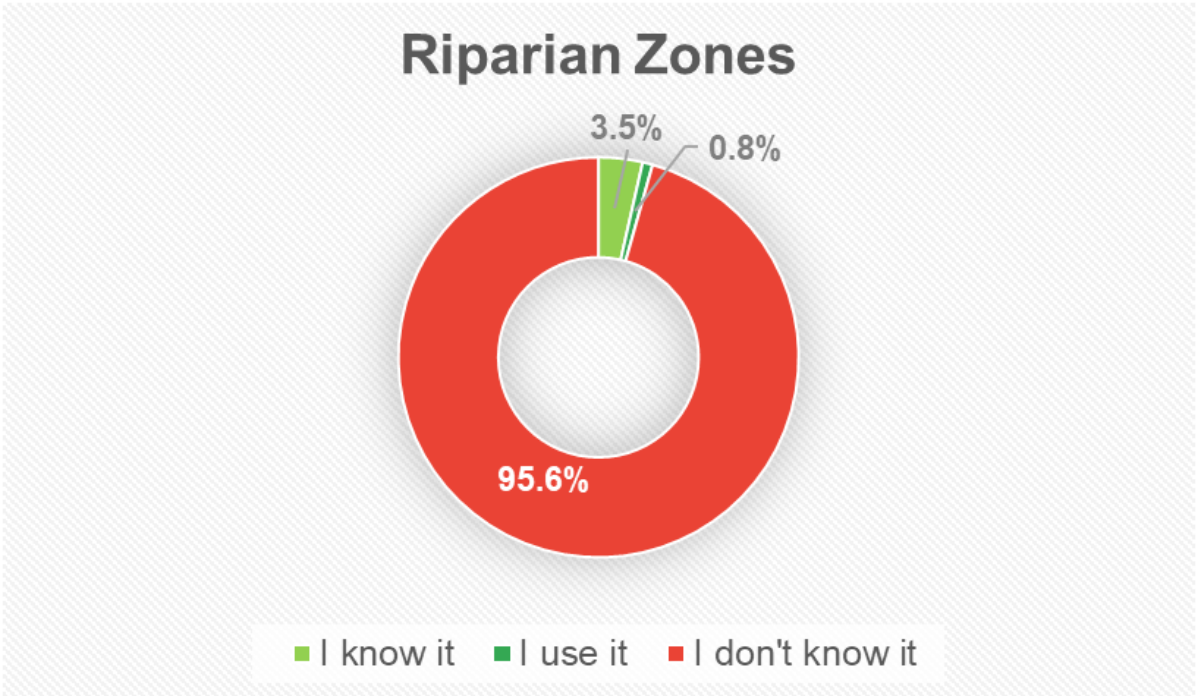

Figure 7. Product awareness survey results - Riparian Zones. Survey performed among landscape and spatial planning stakeholders.

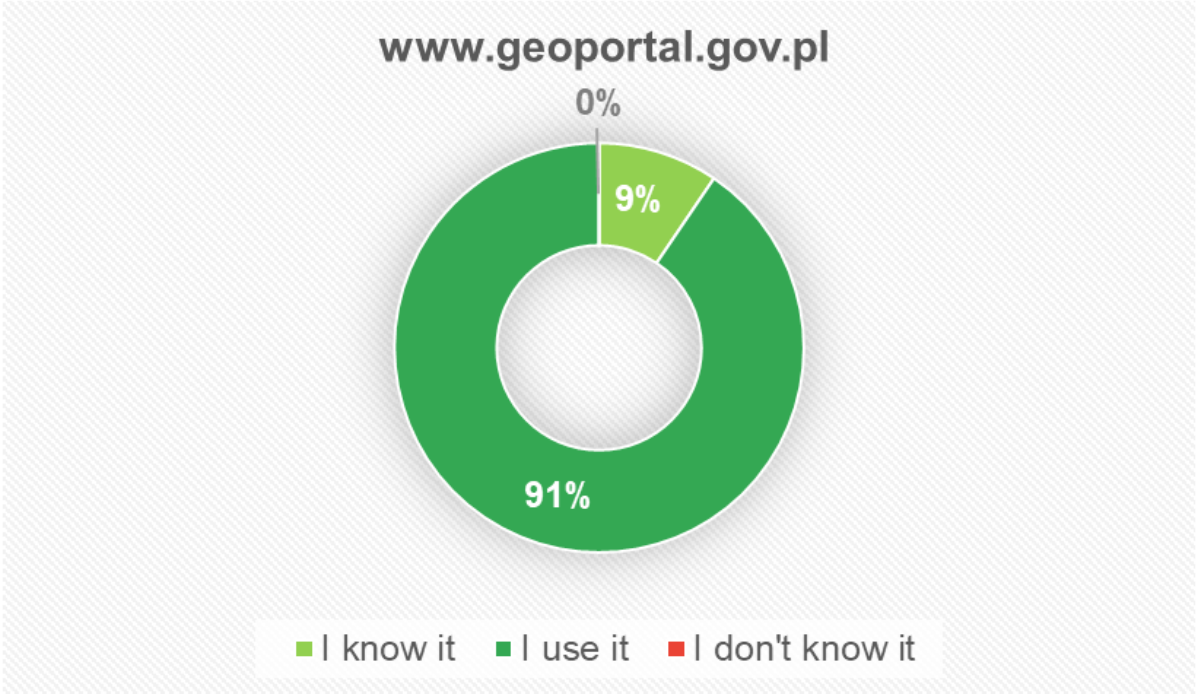

Figure 8. Product awareness survey results - polish national geoportal (link). Survey performed among landscape and spatial planning stakeholders.

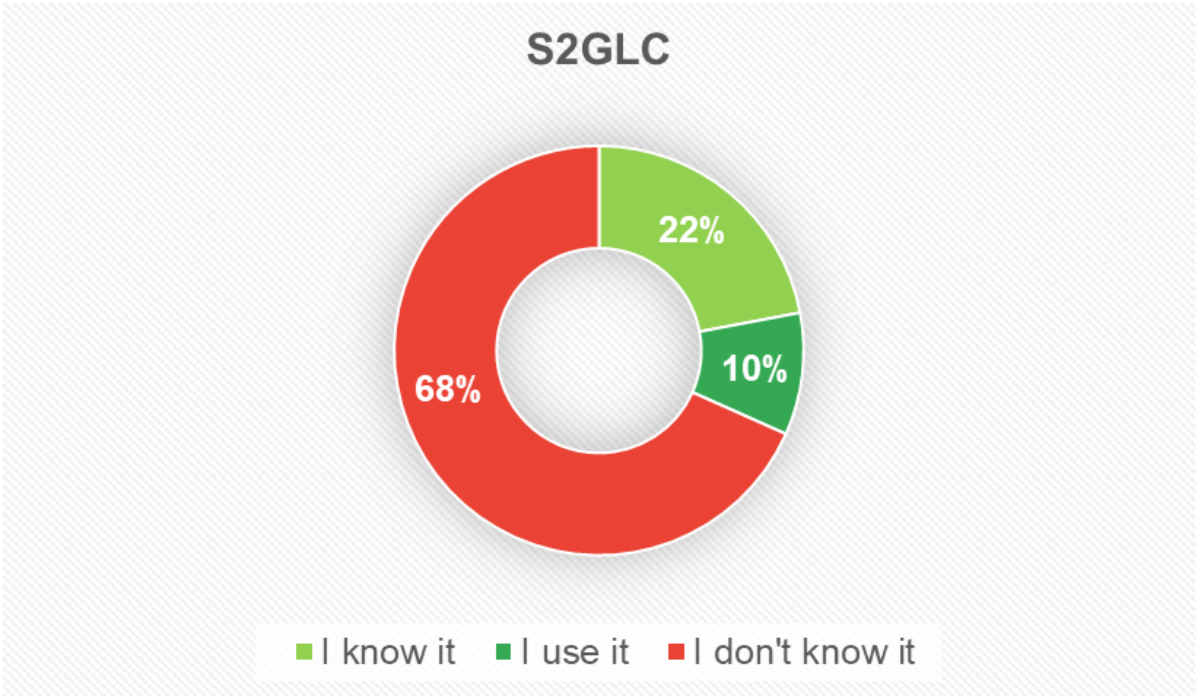

Figure 9. Product awareness survey results - S2GLC Poland (national, Sentinel-2 based land cover and land use maps). Survey performed among landscape and spatial planning stakeholders.

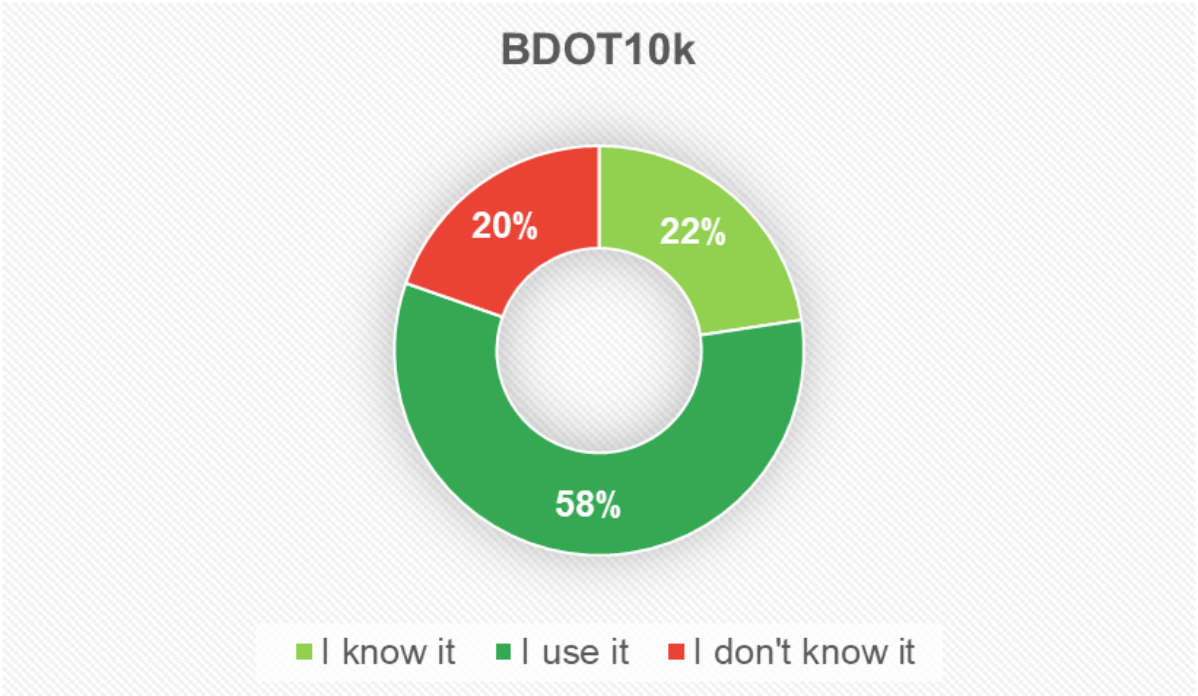

Figure 10. Product awareness survey results - BDOT 10k (national topographic database). Survey performed among landscape and spatial planning stakeholders.

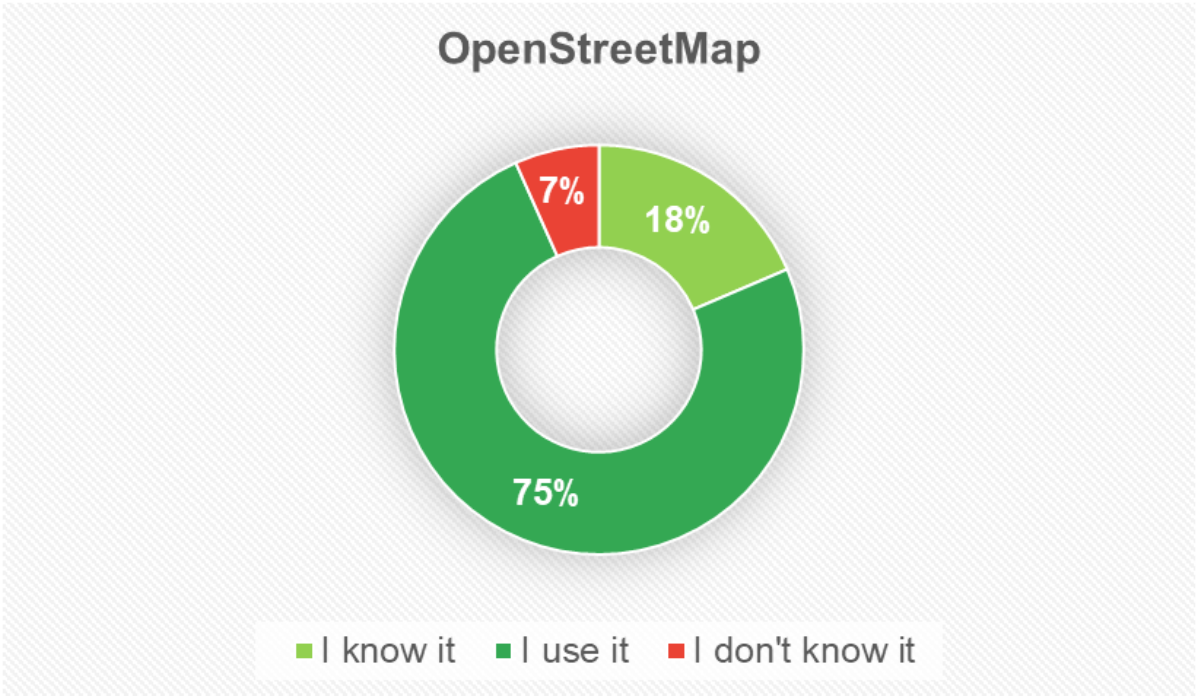

Figure 11. Product awareness survey results - OpenStreetMap. Survey performed among landscape and spatial planning stakeholders.

2. For which purpose do you use geospatial products?

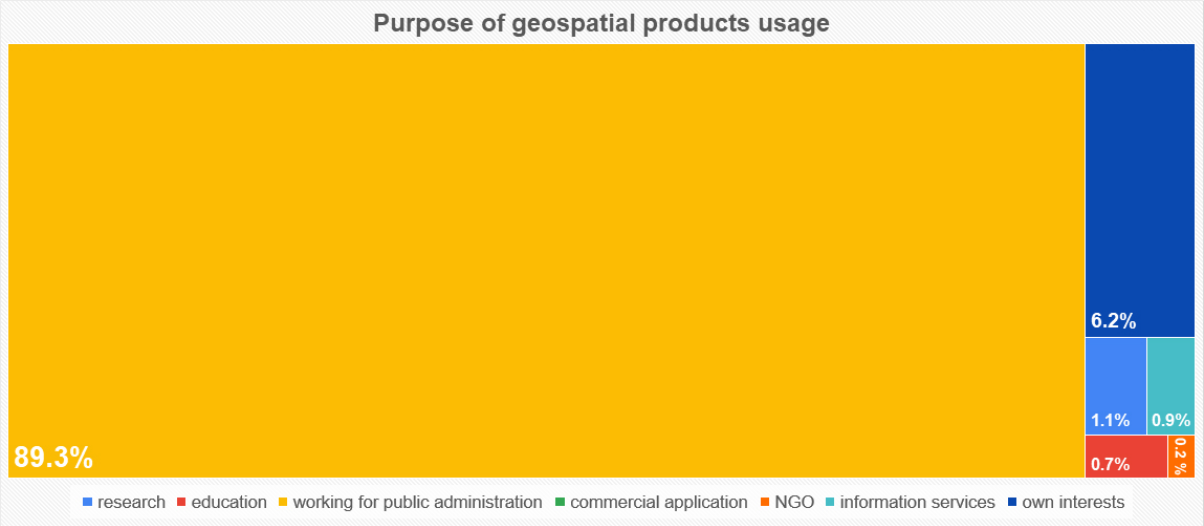

Figure 12. The purpose of geospatial data usage. Survey performed among landscape and spatial planning stakeholders.

3. How do you use geospatial products?

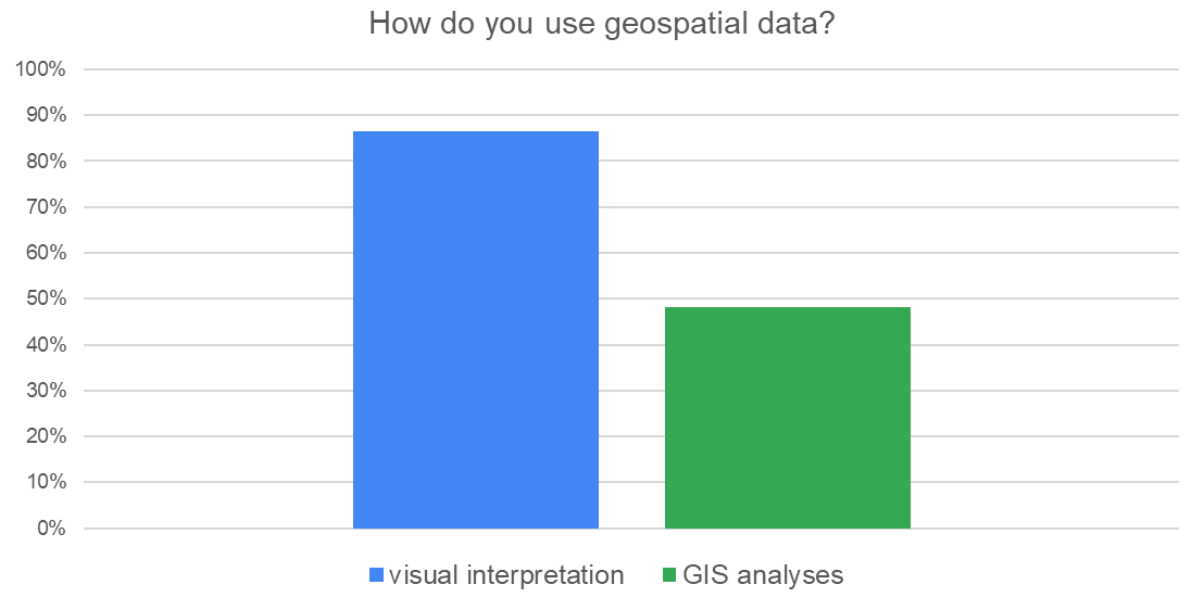

Figure 13. The purpose of geospatial data usage. Survey performed among landscape and spatial planning stakeholders.

4. How **do you assess your expertise in usage of geospatial data?**

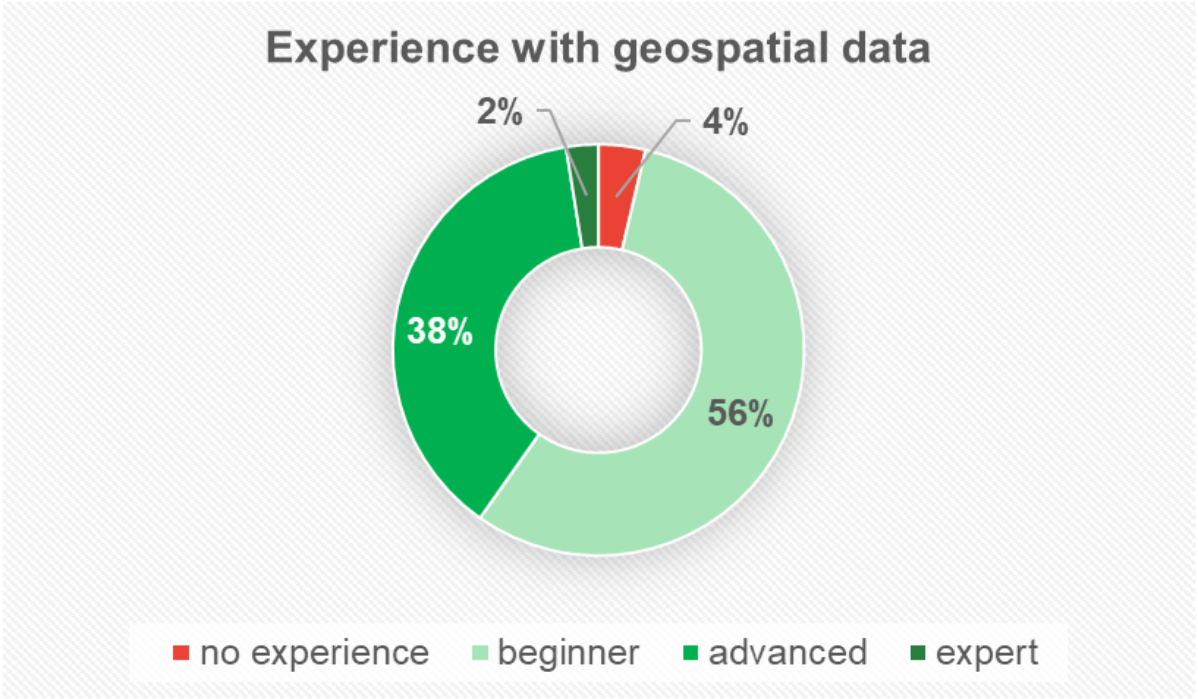

Figure 14. Experience level in geospatial data usage. Survey performed among landscape and spatial planning stakeholders.

5. **Which** parameters **of geospatial data are important for you?**

Within this question we have surveyed what is the importance of certain parameters of geo datasets, e.g.:

- spatial resolution and level of details
- temporal resolution - how often product is updated
- data timeliness - how important it is to have access to the newest data

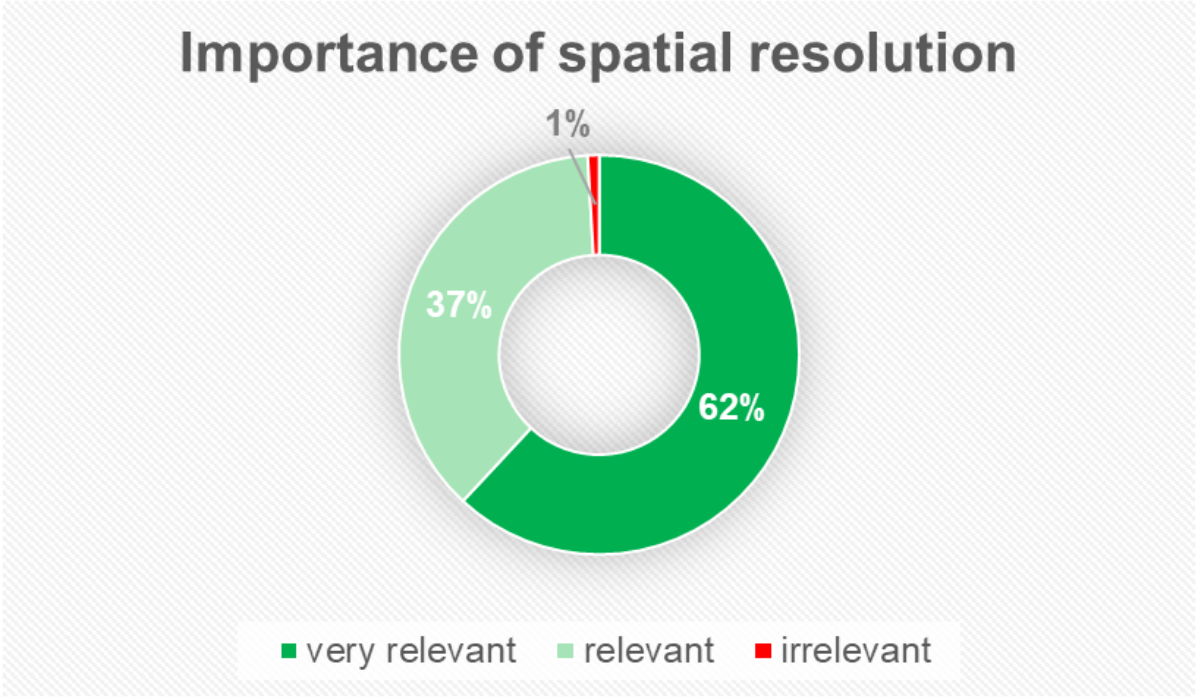

Figure 15. Importance of dataset features - spatial resolution. Survey performed among landscape and spatial planning stakeholders.

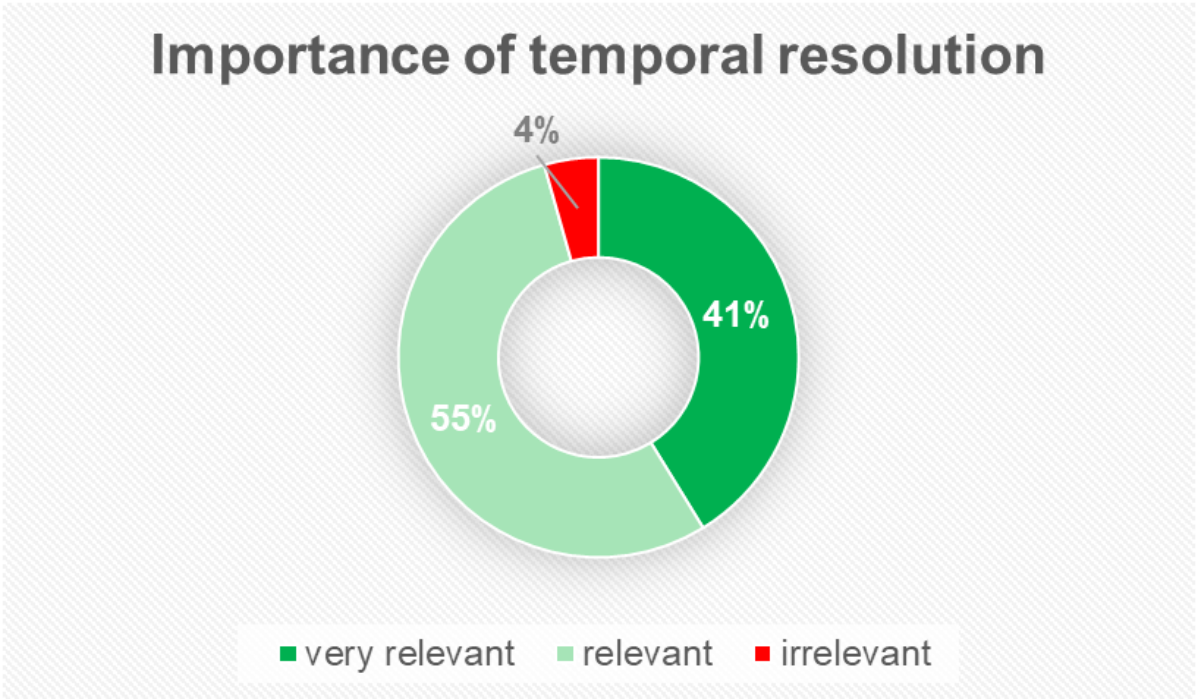

Figure 16. Importance of dataset features - temporal resolution. Survey performed among landscape and spatial planning stakeholders.

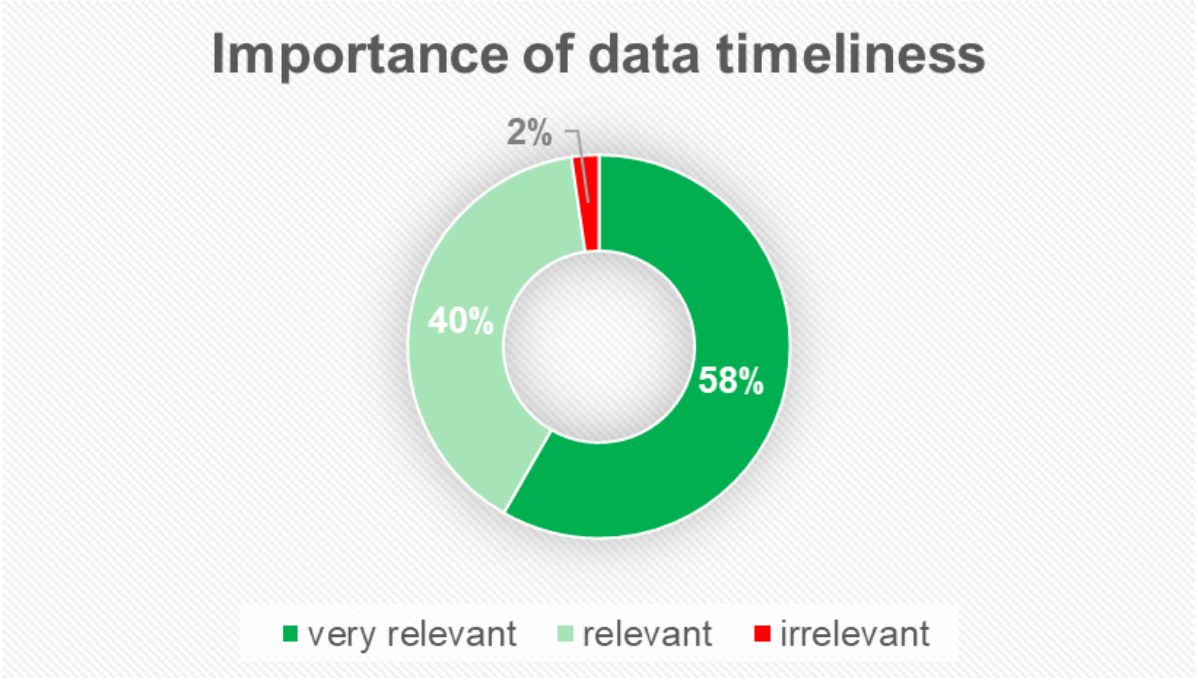

Figure 17. Importance of dataset features - data timeliness. Survey performed among landscape and spatial planning stakeholders.

6. **Evaluate** the **usefulness of certain data types.**

Usefulness of three different data types has been analysed within this question - raster, vector and object.

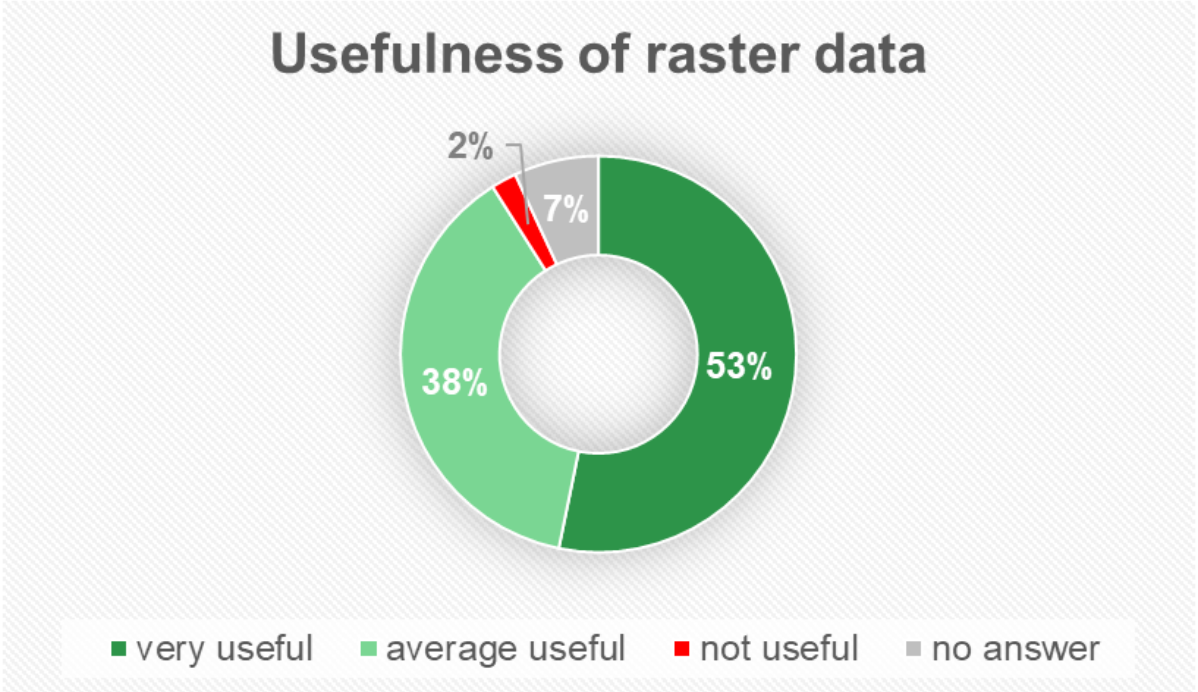

Figure 18. Usefulness of raster data. Survey performed among landscape and spatial planning stakeholders.

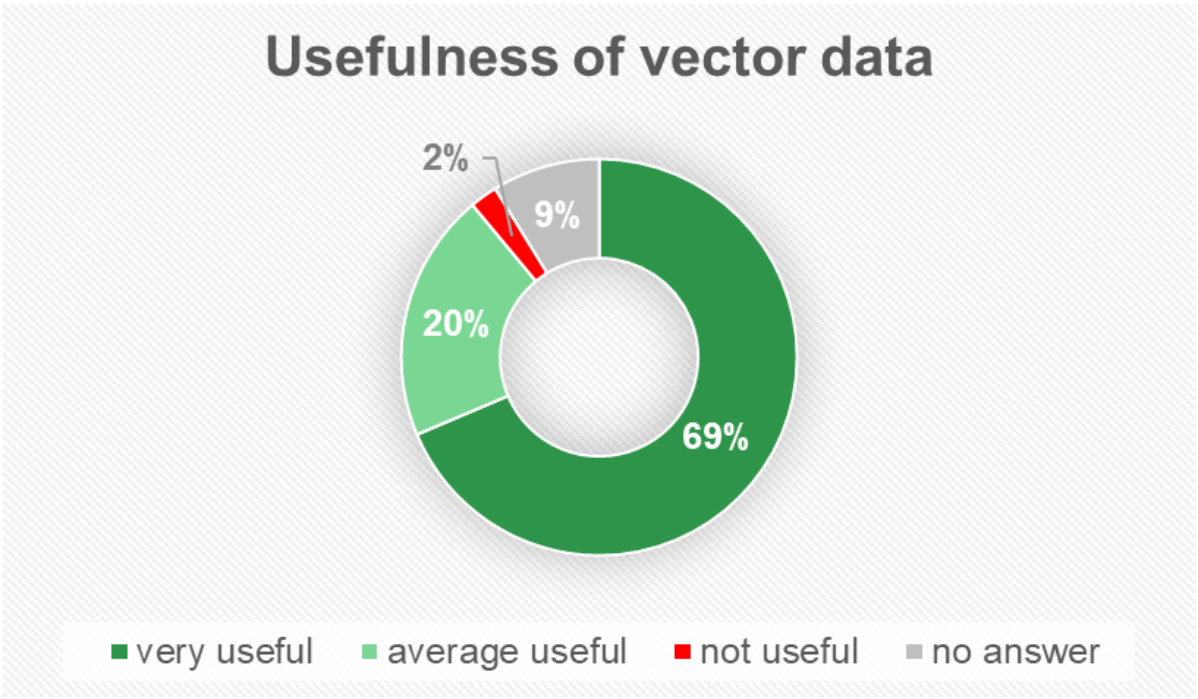

Figure 19. Usefulness of vector data. Survey performed among landscape and spatial planning stakeholders.

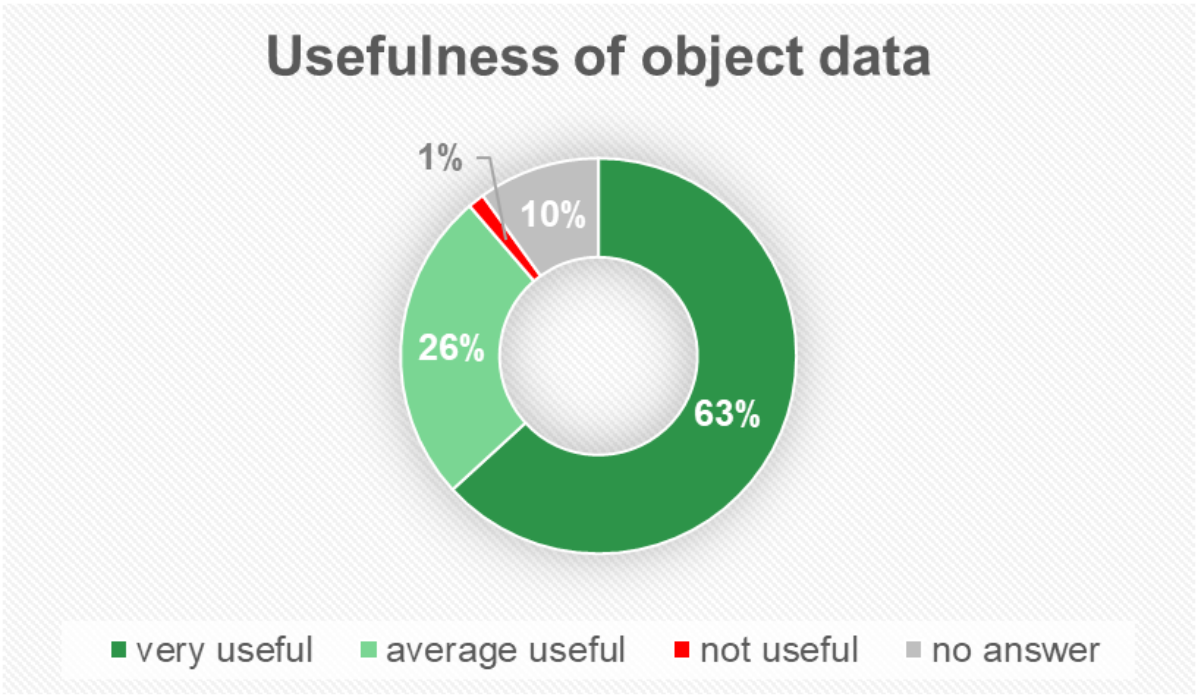

Figure 19. Usefulness of object data. Survey performed among landscape and spatial planning stakeholders.

7. Are you using or planning to use the Eurostat census grid?

Only 19% answered positively to this question.

8. What is the best scale for your applications?

Within this question, the responders provided the list of scales which are the most useful for their work.

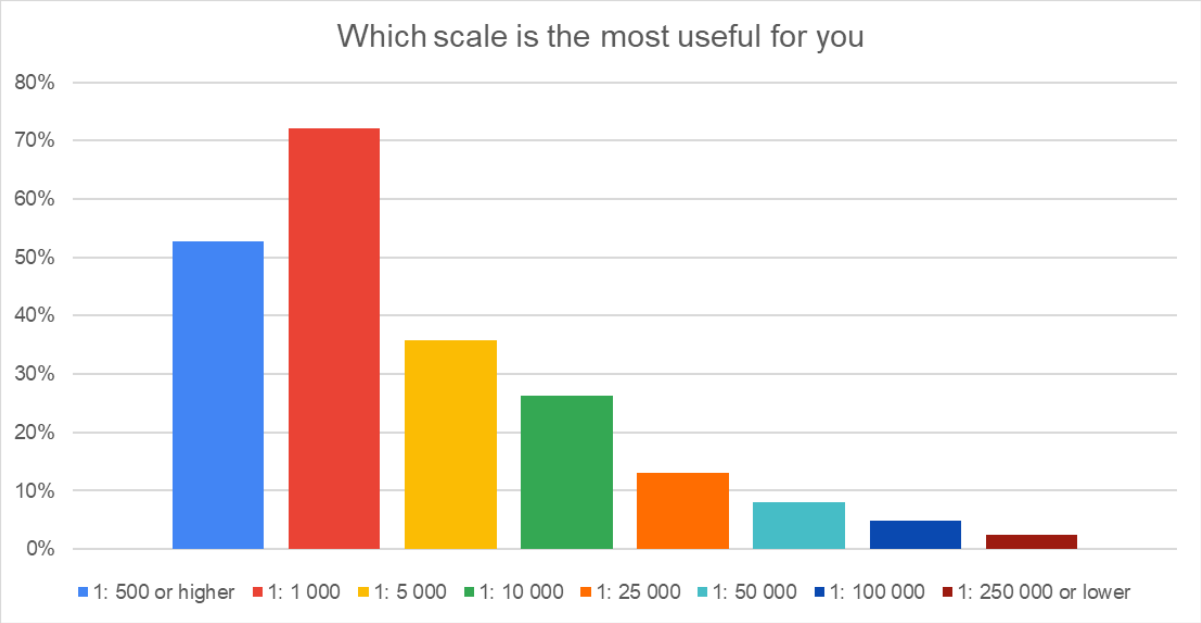

Figure 20. Usefulness of various scales. Survey performed among landscape and spatial planning stakeholders.

9. In what domain are you using geospatial data?

Moreover, we asked whether respondents would be interested in participating in remote sensing & GIS training. The positive answers were submitted by 68% of responders.