**SUMMARY**

The purpose of the paper is to compile a web map of the development of the Department of Photogrammetry and Geoinformatics of the Lviv Polytechnic National University, which will provide information about the scientific and pedagogical and support staff of the department. The urgency of the topic lies in the need to organize information about the teachers and engineers who worked at the Department of Photogrammetry and Geoinformatics. This will help to reproduce and preserve the history of the department, will provide the user with the necessary information about a particular employee.

*Keywords: ArcGIS Online, ArcGIS Esri, Shapefile, web-site, interactive map*
Introduction

Cartographic developments of territorial problems of the educational complex of Ukraine should include a system of maps, which should cover several areas, such as: analysis of factors of territorial organizations, analysis of location and development of educational institutions, identification of patterns of location and development of educational institutions according to geography (Dudun, 2015; Kozachenko et al., 2013). Another interesting cartographic development is the presentation of the history and development of educational units (Yarema et al., 2016; Yarema et al., 2017).

The formation of photogrammetry and its wide application for the creation of topographic maps and the solution of various scientific and applied problems began in the Higher Polytechnic School, as well as in scientific institutions of other countries in the late XIX - early XX centuries. In Lviv, the development of photogrammetric methods is associated primarily with the names of Professors Vaclav Laska and Casper Weigel. In 1898/99 a book by V. Laska entitled "Photogrammetry" was published in Lviv, which was one of the first in this field in Europe.

The department is a graduate of two specialties "Photogrammetry and Remote Sensing" and "Geographic Information Systems and Technologies" (since 1992). The purpose of the paper is to compile a web map of the development of the Department of Photogrammetry and Geoinformatics of the Lviv Polytechnic National University, which will provide information about the scientific and pedagogical and support staff of the department. This will help to reproduce and preserve the history of the department, will provide the user with the necessary information about a particular employee.

Method and/or Theory

Main tasks:

1. Create and structure a set of all input data received from teachers of the department, books provided by the department and from Internet resources.
2. Using the cartographic platform ArcGIS Online, compile an interactive web map, as well as a web application of all scientific and pedagogical and support staff of the Department of Photogrammetry and Geoinformatics of the Lviv Polytechnic National University, which will contain information about the employee (dissertation topic, research interests, academic title, place of study, start of work at the department, Internet link to the photo), localized at the place of his birth.
3. Create a web application that will contain these interactive maps.

To compile an interactive web map of the development of the department of Photogrammetry and Geoinformatics, which indicates in which locality each employee of the department was born, as well as brief information about him, it is advisable to choose the method of localized icons. The urgency of the topic lies in the need to organize certain information about the geography of employees of the department who worked at the Department of Photogrammetry and Geoinformatics.

Visual presentation will help to recreate the history of the Department of Photogrammetry and Geoinformatics, namely to accumulate and store interesting information about each employee. It will also provide an opportunity for entrants, students or ordinary users to quickly and easily get information about the scientific and pedagogical and support staff of the Department of Photogrammetry and Geoinformatics. Find out where he was born and where he studied, what was the academic title that each teacher studied and researched throughout the history of the Department of Photogrammetry and Geoinformatics of Lviv Polytechnic National University, as well as the topic of the dissertation he presented. A photo of the teacher will also be attached.

Results of investigations

As a result of the practical part, a web-application of a series of maps entitled "Scientific and pedagogical and auxiliary staff of the Department of Photogrammetry and Geoinformatics" was obtained.
The created web application is available for viewing and use at the link: https://arcg.is/WDOvT0

**Figure 1** Map of scientific-pedagogical and auxiliary staff of the Department of Photogrammetry and Geoinformatics

**Figure 2** Map of the founders of photogrammetry in Lviv and the first staff of the Department of Photogrammetry and Geoinformatics
Recommendations and conclusions

As a result of the practical part, a series of maps was built:

1. Map of scientific and pedagogical and support staff of the Department of Photogrammetry and Geoinformatics;
2. Map of the founders of photogrammetry in Lviv and the first staff of the department;
3. Map of scientific and pedagogical staff of the Department of Photogrammetry and Geoinformatics (1992);
4. Map of scientific and pedagogical staff of the Department of Photogrammetry and Geoinformatics (2020).

As a result, the information about the employees of the Department of Photogrammetry and Geoinformatics was edited. This series of maps will help to clearly recreate the history of the Department of Photogrammetry and Geoinformatics, namely to accumulate and store interesting information about each employee. It will also provide an opportunity for entrants, students or ordinary users to quickly and easily get information about the scientific and pedagogical and support staff of the Department of Photogrammetry and Geoinformatics.

References


