



## Dear Participant of the Questionnaire Survey!

This questionnaire is part of the GeoTAK project, which is an Erasmus+ project aiming to develop postgraduate Higher Education programmes in Geoinformation Technologies (GIT) and strengthen the links in research and innovation between Higher Education Institutions (HEI), industry and administration in Armenia and Kyrgyzstan. The questionnaire forms the foundation for identifying the market needs and significant development trends in the geospatial domain in the countries.

We believe that you are an important expert and/or stakeholder in the spatial data & geoinformatics domain. We would really appreciate if you could invest your time in completing this questionnaire, as only with your help we will be able to collect data and information relevant for our further planning and implementation of advanced postgraduate Higher Education programmes in Geoinformation Technologies (GIT) and strengthen the research and innovation activities in the domain.

Your participation in this survey is voluntary. If you decide to answer the questionnaire, we will consider this as your consent to participate in the survey. You can withdraw your participation at any time. We will take all possible measures to keep your personal information confidential. All the data collected will be aggregated and used exclusively for the purpose of the GeoTAK project.

**We request you to answer questions by writing, typing or marking the specific checkbox .**

**We would greatly appreciate if you could complete the questionnaire as soon as possible and return it to GeoTAK staff or by e-mail: [geotak.kg@gmail.com](mailto:geotak.kg@gmail.com)**

If you have any questions, remarks, or comments about this questionnaire or any other issues regarding data collection and privacy protection, do not hesitate to contact us by email: [geotak.kg@gmail.com](mailto:geotak.kg@gmail.com).

Kind regards,

**GeoTAK project team**

### QUESTIONNAIRE FOR ADMINISTRATION AND COMPANIES

1. Name of your organisation/company: \_\_\_\_\_
2. Your name and telephone/email (not required): \_\_\_\_\_  
\_\_\_\_\_
3. What is the ownership status of your organisation/company?  
 State       Private       NGO       Other \_\_\_\_\_
4. What is the total number of employees?     1-15       15-100       more than 100
5. Is the organisation/company satisfied with its human resources in the field of GIT?  
 Sufficient       Strong need for improvement       Insufficient
6. Do you use internal or/and external geodatabases, spatial analysis, surveys or models during the decision-making procedure?     Yes       No
7. Is the geodata processing and analysis accomplished by your own organisation/company or external organisation is involved?     Our organisation/company       External       Mixed
8. Do you currently use GIT in your organisation? If not, go to question 11.
9. For what purpose do you use GIT?  
Choose all the relevant option(s) (more than one option is possible).  
 Scanning and geo-referencing topographic and thematic maps  
 Digitization of scanned maps  
 Creation of geodatabase and GIS  
 Geospatial data collection and storage based on surveying, geodetic observations  
 UAV-based geospatial data data acquisition and modelling  
 Photogrammetric data acquisition and modelling  
 Delivering courses on GIS and/or remote sensing (RS)  
 Download satellite images for digitizing maps  
 Download satellite images for land use and land cover classification  
 Spatial analysis  
 Location based services/navigation using digital maps  
 Others \_\_\_\_\_
10. What is the reason that GIT has not been used in your company?  
 Lack of expertise       Lack of interest       Other \_\_\_\_\_
11. Would you like to apply GIT / GIS software in the future?     Yes       May be       No
12. What type of surveying /remote sensing / photogrammetric equipment do you use?  
Choose all the relevant option(s) (more than one option is possible).  
 Leveling       Total stations       GNSS       Terrestrial Laser scanners       UAV  
 Aerial LiDAR       Aerial optical cameras       Mobile mapping  
 Other \_\_\_\_\_

13. What type of surveying /GIS / photogrammetric software do you use?

Choose all the relevant option(s) (more than one option is possible).

- |   |  |  |
|---|--|--|
| <input type="checkbox"/> ArcGIS Desktop   | <input type="checkbox"/> PostgreSQL, PostGis | <input type="checkbox"/> Agisoft       |
| <input type="checkbox"/> ArcGIS Online    | <input type="checkbox"/> AutoCAD             | <input type="checkbox"/> SAS Planet    |
| <input type="checkbox"/> Quantum GIS      | <input type="checkbox"/> Micromine           | <input type="checkbox"/> R-studio      |
| <input type="checkbox"/> Google Earth Pro | <input type="checkbox"/> Erdas Imagine       | <input type="checkbox"/> Collect Earth |
| <input type="checkbox"/> Mapinfo          | <input type="checkbox"/> ENVI                | <input type="checkbox"/> eCognition    |
| <input type="checkbox"/> Other _____      |  |  |

14. What type of surveying /remote sensing / photogrammetric data sets do you use?

Choose all the relevant option(s) (more than one option is possible).

- |   |  |
|---|--|
| <input type="checkbox"/> Land surveying (GNSS, Totalstation etc.) | <input type="checkbox"/> DEM                                       |
| <input type="checkbox"/> Landsat 4-8                              | <input type="checkbox"/> Google Earth Pro; Google Map              |
| <input type="checkbox"/> Sentinel-2                               | <input type="checkbox"/> UAV                                       |
| <input type="checkbox"/> WV, QuickBird                            | <input type="checkbox"/> Laser scanning data                       |
| <input type="checkbox"/> MODIS                                    | <input type="checkbox"/> Topographic maps (1:10000-1:1000000)      |
| <input type="checkbox"/> Aster                                    | <input type="checkbox"/> Topographic/Thematic plans (1:500-1:5000) |
| <input type="checkbox"/> Sentinel-1                               | <input type="checkbox"/> Other _____                               |

15. What postgraduate level staff members with GIT competencies does your organisation need?

- MSc                       PhD (Candidate of Scs)                       Does not need

16. Did your company had GIT related project in the last 5 years?                      Yes                      No

If yes, in which application areas?

Choose all the relevant option(s) (more than one option is possible).

- Cadastre, land management
- Geodesy, cartography
- GIS
- Environmental studies, Earth observation
- Spatial decision making
- Deformation monitoring, Engineering geodesy
- Mining
- Disaster management, Emergency response
- Tourism
- Cultural heritage
- Location-based services, navigation, transportation
- Other \_\_\_\_\_

17. Which GIT related knowledge areas / skills do you find important from the below proposed?

Please indicate the importance with a mark on a 1-5 scale (5= means very important, not important at all=1)

<i>Nº</i>	<i>knowledge areas / skills</i>	<i>Importance</i>
1	Programming skills	
2	Data acquisition and data integration skills	
3	Cadastre and land information knowledge	
4	Spatial data infrastructure knowledge	
5	Spatial database management skills	
6	GIS knowledge and skills	
7	Spatial analysis knowledge	
8	UAV piloting, data acquisition and processing	
9	Geodetic measurements and survey using total stations	
10	Advanced GNSS positioning	
11	Knowledge on the geodetic reference systems	

12	Remote sensing knowledge	
13	Photogrammetric knowledge	
14	Skills in remote sensing/photogrammetric software	
15	Management skills	
16	Interdisciplinary skills	
17	International experience	
	Other, please specify	

18. Do you have relevant ongoing GIT projects / partnerships / activities at your organisation/company?

- a.
- b.
- c.

19. Would you be interested in joining a National GIT Research Network which brings together universities, GIS scientists, national agencies, NGOs and companies?  Yes  No

20. In what way can your organisation/company contribute into this GeoTAK project?

- Advises  Study visits  Research data  Internship  Other \_\_\_\_\_

21. Would you employ a Geoinformatics MSc/PhD graduate in your company?  Yes  No  
If yes, how many?  1-2  3-5  6 and more

22. Please, identify the main barriers in the use of geospatial information?

- Lack of GIT professionals  Lack of education/professional training  
 Expensive software/hardware  Geospatial datasets are not available

Other: \_\_\_\_\_

23. Please, select the application fields that, based on your work and experience, GIT is currently urgently needed in your country and require advanced solutions:

- Disaster management, emergency response  Land survey, geodesy  
 Land management and cadastre  Spatial and urban planning  
 Environmental management  Agriculture  
 Forestry  Location-based services, transportation  
 Tourism  Cultural heritage  
 Other: \_\_\_\_\_

24. Please, describe the GIT areas that, based on your work and experience, you consider the most promising in your country in terms of employment expectation in the near future

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

25. Do you like to be actively involved in the GeoTAK project?  Yes  No

If „Yes”, please, write your email adress: \_\_\_\_\_

*Your feedback is very important for the further development of GeoTAK project!  
The questionnaire is evaluated anonymously. Thank you for participating in our survey!  
Please, fill the questionnaire and return it to GeoTAK staff or by email: [geotak.kg@gmail.com](mailto:geotak.kg@gmail.com)*