



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

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.

Kind regards,

GeoTAK project team

QUESTIONNAIRE FOR UNIVERSITIES

1. Name of your university/institute: _____

2. Contact person (not required) Name: _____
 E-mail: _____
 Mobile phone: _____

3. Main academic and research activities at your university/institute:

Please, write the names of your BSc/MSc/PhD programmes on GIT related sciences

№	Level/Degree	Name of the programme
1	BSc	
2	MSc	
3	Aspirantura (Cand.Sc.)	
4	PhD	
5		
6		

Name 3 most important research areas at your institution with GIT used:

- a.
- b.
- c.

4. What kind of relevant ongoing GIT projects / partnerships / activities do you have at your university/institute?

- a.
- b.
- c.

5. What type of surveying /remote sensing / photogrammetric equipment do you use?

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

- Levels
 Total stations
 GNSS
 Terrestrial laser scanners
 UAV
 Aerial LiDAR
 Aerial optical cameras
 Mobile mapping
 Other _____

6. 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 _____ | | |

7. Is your university/institute interested in joining a National GIT Research Network which brings together universities, GIS scientists, national agencies, NGOs and companies??

- Yes
 No
 I don't know

8. Number and qualification of the academic and research staff of your institution interested in GIT

<i>GIT related sciences</i>	<i>MSc</i>	<i>Cand.Sc. / PhD</i>	<i>Doctor of Sc.</i>
a. Geodesy, Surveying			
b. Cartography and Geoinformatics			
c. Land management and cadaster			
d. Remote sensing			
e. Geology and mining			
f. Environmental studies			
g. Other application areas			

9. Number of students in the related programmes of your institution

<i>GIT related sciences</i>	<i>BSc</i>	<i>MSc</i>	<i>Cand.Sc. / PhD</i>
a. Geodesy, Surveying			
b. Cartography and Geoinformatics			
c. Land management and cadaster			
d. Remote sensing			
e. Geology and mining			
f. Environmental studies			
g. Other application areas			

10. What are the main difficulties/hinders for GIT Master/Doctoral (PhD) studies in the country?

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

- Lack of committed teachers and academic supervisors
- Lack of interested students or students with sufficient background knowledge
- Lack of knowledge on current Geoinformation Technologies
- Inadequate research funding
- Lack of research facilities and research centers
- Insufficient English language skills
- Lack of link/cooperation between university, research and industry
- Incompatible degree system
- PhD diplomas are not recognized by the National labor legislation
- Others: _____

11. Competences: Evaluate the importance of the following competences and skills, and the competence level presently at your institution (*grading from 1 to 5, where 5 corresponds to most important or very high level*)

<i>11 .1. Professional competences</i>	<i>Importance</i>	<i>Competence level</i>
1. Advanced skills in analyzing, integrating and managing spatial data		
2. Skills to design Geoinformation systems and services		
3. Ability for innovations in designing, managing and implementing GIT projects		
4. Ability to solve complex spatial problems in a global context		
5. Knowledge and skills to address challenges in defining and maintaining geodetic reference systems		
6. Ability to use, investigate limitations and possibilities of high accuracy GNSS positioning and navigation		
7. Deep insight on Earth's gravity field and the geoid and their applications in geodesy and earth sciences		

8. Skills to initiate Geographic / Land / Cadastral etc. information systems (it goes to No 2)		
9. Knowledge and professional skills on the Remote sensing data collection and processing		
10. Others: _____		

11.2. Research competences	Importance	Competence level
1. Insight on current research activities in Geoinformation science and technology		
2. Ability to critically evaluate existing theories and technologies and identify the needs of further research for the improvement		
3. Ability for innovations in designing, managing and implementing GIT projects		
4. Ability to design scientific experiments, interpret experiment results and seek solutions based on sound scientific methods		
5. Ability to apply multi-disciplinary approaches to solve scientific problems		
6. Others: _____		

11.3. Generic competences (soft skills)	Importance	Competence level
1. Ability to communicate effectively in oral or written form to both specialist and non-specialist audiences		
2. Ability to choose and use the right social media for publishing and communicating		
3. Leadership skills and ability to work in a project team and in a multi-disciplinary environment		
4. Innovation and entrepreneurial skills to widely use research results and innovation ideas		
5. Ability to engage in life-long learning		
6. Awareness of ethical, economic and professional issues, as well as sustainable development issues		
7. Others: _____		

12. How important are the following courses which could support potential MSc/PhD students?
(grading from 1 to 5, where 5 corresponds to most important)

Course title	Importance
1. Spatial data science	
2. Scientific research methodology and methods	
3. Research paper writing and communication	
4. Introduction to geospatial programming	
5. Applied mathematics and statistics	
6. Coordinate systems in geodesy	

