Achievements of Erasmus+ CBHE
DSinGIS: Doctoral Studies in GeoInformation Sciences project

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Data Sheet

Instrument: Erasmus+ Capacity Building in Higher Education, Key Action 2
Project ID: 585718-EPP-1-2017-1-HU-EPPKA2-CBHE-JP
Project Name: Doctoral Studies in GeoInformationSciences
Project Acronym: DSinGIS
Project Volume: 992 169 EUR
Project Duration: 15.10.2017-14.10.2020

http://www.dsingis.eu/
http://www.geoinformatics.uz/dsingis

Project Partners

1) Obuda University, Hungary

2) Paris Lodron University of Salzburg (PLUS), Austria

3) Royal Institute of Technology (KTH) Stockholm, Sweden

4) Leibniz Institute of Agricultural Development in Transition Economies (IAMO), Halle, Germany

5) Tashkent Institute of Irrigation and Agricultural Mechanization Engineers (TIIAME) Tashkent, UZ

6) National University of Uzbekistan named after Mirzo Ulug'bek (NUU), Tashkent, UZ

7) Karakalpak State University named after Berdakh (KSU) Nukus, UZ

8) Samarkand State Architectural and Civil Engineering Institute (SamSACEI) Samarkand, UZ

9) Tashkent Institute of Architecture and Civil Engineering (TIACE) Tashkent, UZ
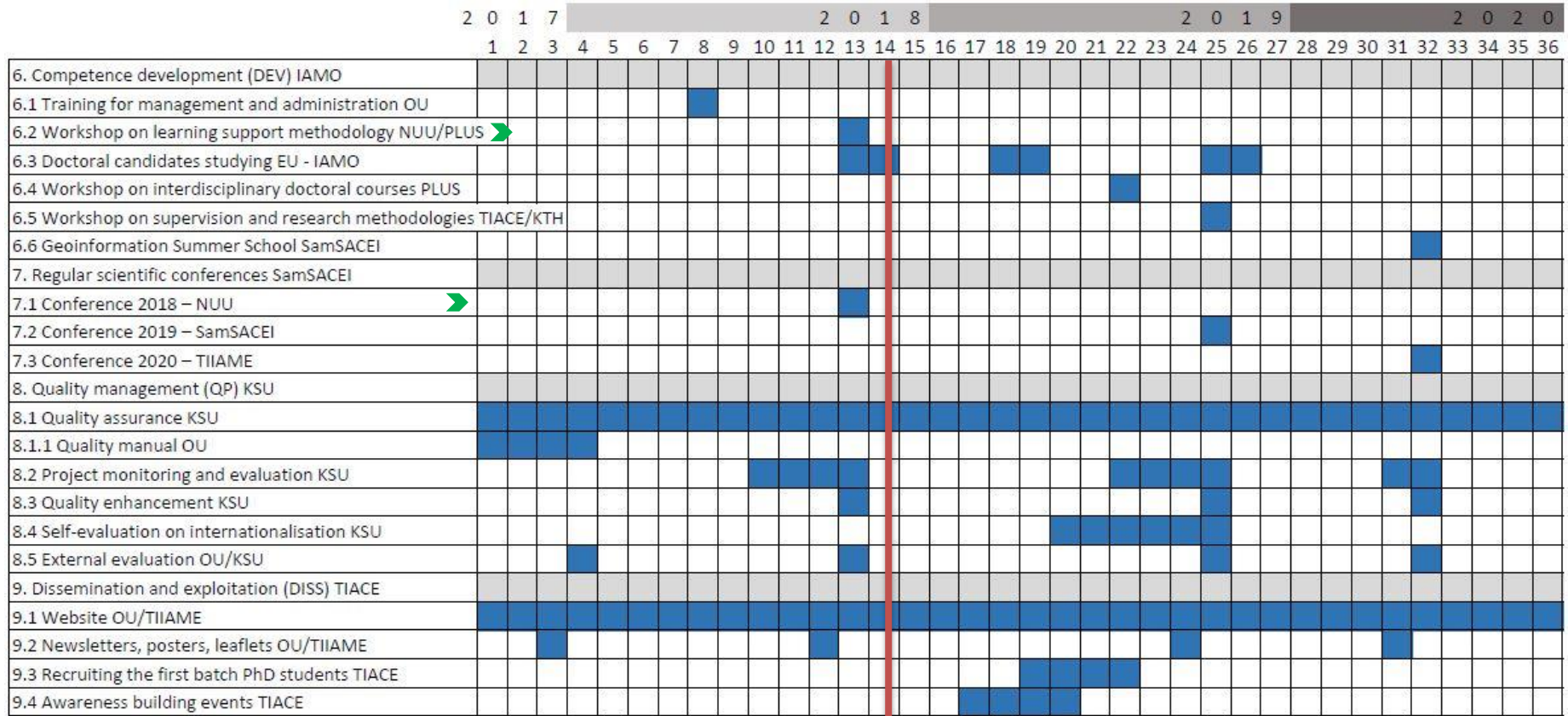
Associated partners

State Committee of Republic of Uzbekistan om Land Resource, Tashkent, UZ

Ministry of Higher and Secondary Specialized Education (MHSSE) Tashkent, UZ

Supreme Attestation Commission under the Cabinet of Ministers, Tashkent, UZ

Workplan

	2017														2018														2019										2020		
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36

Task rows:

- 1. Project management (MAN) OU
- 1.1 Project administration OU
- 1.1.1 Preparation of the Project Handbook OU
- 1.2 Project meetings OU
- 1.3 Preparation of Progress Reports OU
- 1.4 Establishment of international network PLUS
- 1.5 External Audit OU
- 2. Programme planning (PREP) TIIAME
- 2.1 Needs and responses KTH/KSU
- 2.2 Preparation of the new Doctoral programme NUU
- 2.3 Accreditation of the programme TIIAME
- 3. Development of learning materials (DEV) PLUS
- 3.1 Specification of aims and learning outcomes OU
- 3.2 Course specifications PLUS
- 3.3 Editing of learning materials PLUS
- 3.4 Peer review PLUS
- 3.5 Testing and evaluation TIAC
- 4. Infrastructure development (DEV) KTH
- 4.1 Specification of e-learning environment PLUS
- 4.2 Implementation of e-learning centres SamSACEI
- 4.3 Building the knowledge pool SamSACEI
- 4.4 Planning of the Joint Research Centre TIIAME/KTH
- 4.5 Installation of the Joint Research Centre TIIAME
- 4.6 Business model KTH
- 5. Glossary of geospatial terms (DEV) NUU
- 5.1 Creating collaborative glossary editor OU
- 5.2 Glossary harmonization NUU
- 5.3 Definition of new terms in Uzbek NUU

Workplan

	2017													2018													2019									2020	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36
6. Competence development (DEV) IAMO																																				
6.1 Training for management and administration OU								■																												
6.2 Workshop on learning support methodology NUU/PLUS ➤													■																							
6.3 Doctoral candidates studying EU - IAMO													■	■				■	■						■	■										
6.4 Workshop on interdisciplinary doctoral courses PLUS																					■															
6.5 Workshop on supervision and research methodologies TIACE/KTH																									■											
6.6 Geoinformation Summer School SamSACEI																																■				
7. Regular scientific conferences SamSACEI																																				
7.1 Conference 2018 – NUU ➤													■																							
7.2 Conference 2019 – SamSACEI																									■											
7.3 Conference 2020 – TIIAME																																■				
8. Quality management (QP) KSU																																				
8.1 Quality assurance KSU	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
8.1.1 Quality manual OU	■	■	■	■																																
8.2 Project monitoring and evaluation KSU										■	■	■	■										■	■	■	■						■	■			
8.3 Quality enhancement KSU													■												■							■				
8.4 Self-evaluation on internationalisation KSU																				■	■	■	■	■												
8.5 External evaluation OU/KSU				■									■																							
9. Dissemination and exploitation (DISS) TIACE																																				
9.1 Website OU/TIIAME	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
9.2 Newsletters, posters, leaflets OU/TIIAME			■									■						■					■								■					
9.3 Recruiting the first batch PhD students TIACE																				■	■	■	■													
9.4 Awareness building events TIACE																		■	■	■	■															

WP5 Glossary of geospatial terms

- **Aims- to develop a** contemporary and concise **glossary** of GIS related terms. In the glossary at least 1000 most frequently used GI terms will be defined in Uzbek language.

- **The chosen platform- phpMyAdmin:** server based database management software working as a back-end
- Helps all participants in editing and keeps track of all work done on the glossary.
- Online platform also ensures constant edition resulting fluency of work: results done in the glossary can be seen on-thy-fly, so actors can work in tight cooperation.
- For that reason partners chose phpMyAdmin to keep all data and workspace on one place.

Harmonization of Geospatial terms

- **Harmonization:**
  Adjustment of *differences and inconsistencies* among different terms and definitions from the viewpoint of their usage to make them uniform or mutually compatible.

- compatibility: within the Uzbek GIS community and at international level
- connection to other glossaries/handbooks
- cross-linguistic dictionaries presenting several levels of connections (e.g. term, definition, scientific field, images)
- **Why:**
  - to develop a contemporary and concise glossary of GIS related Uzbek terms and definitions for the benefit of UZ GI community – with 1000 entries/terms until the end of the project
  - Unified terminology to help module development
  - With help of database managed lexicography – can be done safely
- **How:**
  - SQL-database offered in oline patform:
    - helps all participants in editing
    - keeps track of all work done on the glossary
    - ensures constant edition resulting fluency of work (results done in the glossary can be seen on-thy-fly)
    - actors can work in tight cooperation

Actors working in harmonization
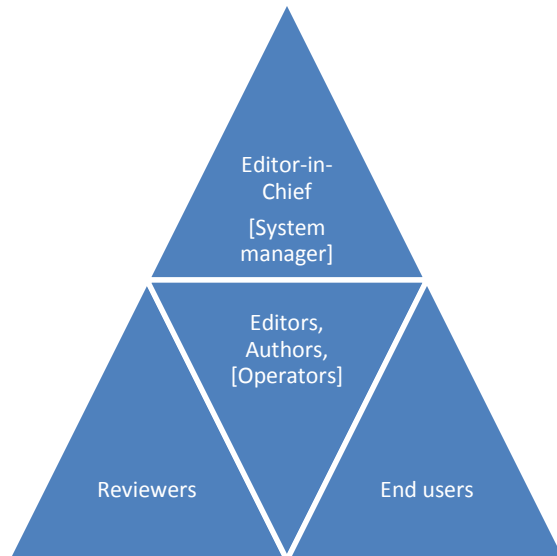
Bottom-up hierarchy of users

(Triangle labels: Editor-in-Chief [System manager]; Editors, Authors, [Operators]; Reviewers; End users)

- *End user*: reader of the glossary
- *Reviewer*: a (professional) reader asked to read the glossary
- *Author*: a professional in GIS writing textbooks in the DSinGIS project
- *Operator*: a person helping authors in usig the database and glossary
- *Editor*: is a professional in GIS; is responsible for (at least one) scientific field –Editorial board is set up by editors being responsible for covered scientific fields
- *Editor-in-Chief*: a professional in GIS having decision rights in cases where authors and editors cannot decide (is the head of Editorial board)
- *System manager*: IT-person responsible for the design and implementation of the database and for system managing of the editorial process

Results

- **http://193.224.99.124/phpmyadmin/sql.php**

- **Report of work done on the Glossary of Uzbek terms**

- **http://www.unigisopen.hu/DSinGIS/DoUT.html**

- a reader
- a reviewer
- an editor.

Regular Scientific Conferences

NAME	**SCIENTIFIC RESEARCH WORKS IN THE FIELD OF GEOINFORMATICS: CURRENT STATE AND PROSPECTS**
LEVEL	**INTERNATIONAL**
DATE	**2018, 15-21 OCTOBER**
PLACE	**NATIONAL UNIVERSITY OF UZBEKISTAN, TASHKENT**
PERMISSION	**DECREE OF THE CABINET OF MINISTRY OF THE REPUBLIC OF UZBEKISTAN, № 178, 2018 6 MARCH** **ORDER OF MINISTRY OF HIGHER AND SECONDARY-SPECIAL EDUCATION, №233, 2018 12 MARCH**
Number of participants	**108**
Results	**Collection of selected scientific papers of the conference published in the Special Volume of the Journal of Geographical Society of Uzbekistan**

DSinGIS QM questionnaire for evaluation of the conference

How satisfied were you with the registration process?

0% 2%
34%
64%
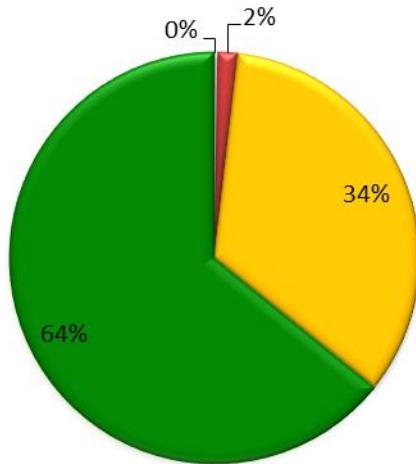
How satisfied were you with the conference materials provided?

0% 0%
31%
69%
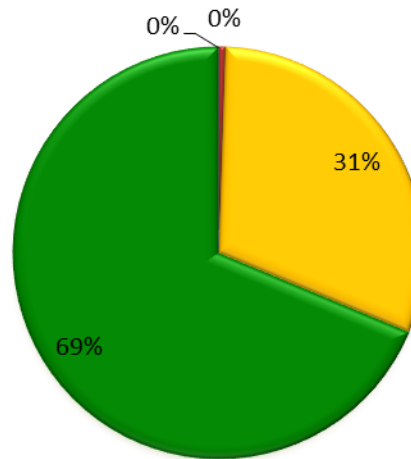
Overall, how satisfied were you with the conference facilities?

0% 3%
35%
62%

Overall, how satisfied were you with the conference?

0% 0%
42%
58%
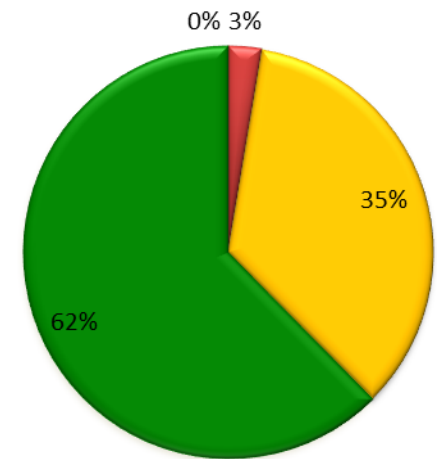
■ Very Dissatisfied

■ Dissatisfied

□ Satisfied
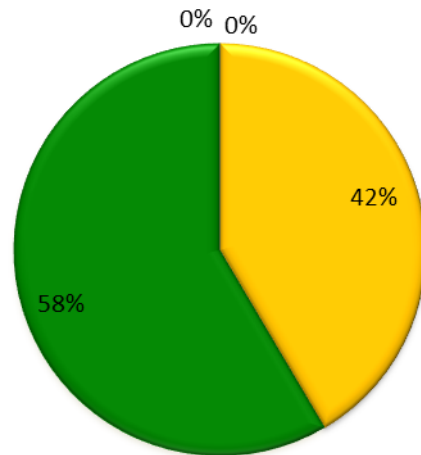
■ very satisfied

The content of sessions was appropriate and informative.
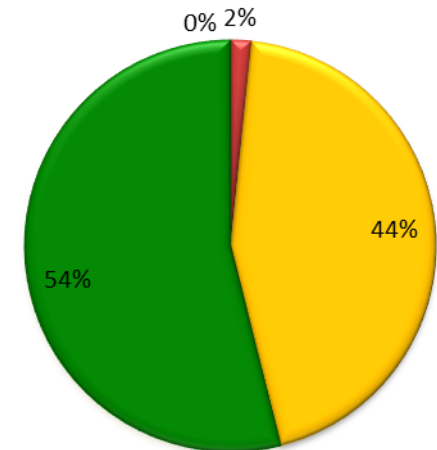
0% 2%
44%
54%

DSinGIS QM questionnaire for evaluation of the conference

The conference was well organized.

0% 3%

35%

62%
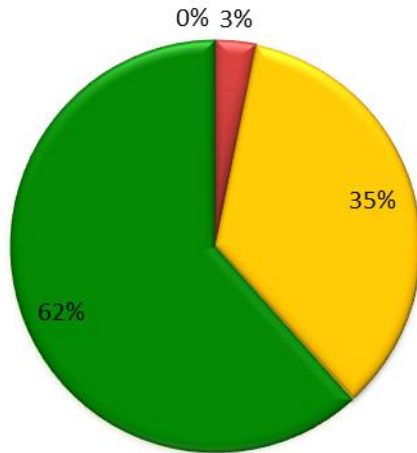
■ Very Dissatisfied

■ Dissatisfied

■ Satisfied

■ very satisfied

The organizers were helpful and courteous.

0% 3%

32%

65%
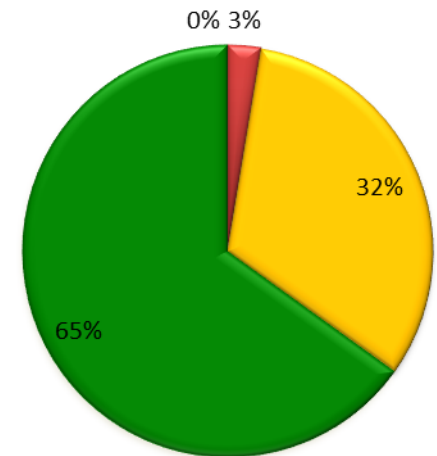
What kinds of sessions would you like to see included at future conference?
Thematically applications of GIS and RS
Application GIS in Agriculture and Irrigation
GIS applications from the wide and variety of sciences
To see more participantes from industry
Presentation from industry. Poster section.

DSinGIS QM questionnaire for evaluation of the conference

What kinds of sessions would you like to see included at future conference?
Organization and friendly people
The atmosphere and kindness of the host institution
Technical session
Facilities
Altidute and responsibility
Questions and answers
Hospitallity

What did you like least about the conference?
Translation take a lot of time simultaneous interpretation
Should be followed to the time limit
Time management

In what ways could this conference be improved?
Foreign participants
Strictly define time limits
Cooperation

Doctoral Courses in GeoInformation Science

I. Basic and common courses
1. Spatial representations and spatial data infrastructures   (PLUS & TIAC)
2. Spatial statistics (IAMO & TIAC)
3. Global Navigation Satellite Systems (GNSS)   (KTH & NUU)
4. Visually interfacing with spatial information   (PLUS & NUU)
5. Research methodology and scientific communication (KTH & SamSACEI)
6. Advanced remote sensing and digital image processing   (OU & KSU)

II. Courses for three specializations		
Geodesy	Geoinformatics	GIS applications
7. Geodetic reference systems (NUU & KTH)	11. Geo-databases and distributed architectures (TIAC & PLUS)	15. Spatial decision support in land management (SamSACEI & IAMO)
8. Advanced theory of errors (SamSACEI & KTH)	12. Advanced thematic mapping (KSU & OU)	16. Land Use Economics (TIIAME & IAMO)
9. Satellite gravimetry & adv. physical geodesy (OU & SamSACEI)	13. Advanced spatial analysis (TIAC & PLUS)	17. Spatial simulation of environment (KSU & OU)
10. 3D laser scanning and mapping by UAV (TIIAME & OU)	14. Integration of remote sensing and GIS (NUU & IAMO)	18. Sustainable resource management (IAMO & TIIAME)

THANK YOU FOR YOUR ATTENTION!

QUESTIONS?