

GeoTAK

Project description

From January-2021 to January-2024

Developing Interdisciplinary Postgraduate Programmes and Strengthening Research Networks in Geoinformation Technologies in Armenia and Kyrgyzstan

Erasmus+ Capacity Building in Higher Education

Education, Audiovisual and Culture Executive Agency

617695-EPP-1-2020-1-ES-EPPKA2-CBHE-JP

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Aim

To develop **postgraduate Higher Education programmes in Geoinformation Technologies (GIT)** and **strengthening the links in research and innovation** between Higher Education Institutions (HEI), industry and administration in Armenia and Kyrgyzstan

Consortium

	Partner	Country
UPV	Polytechnic University of Valencia	SPAIN
KTH	Royal institute of Technology	SWEDEN
VUB	Vrije Universiteit Brussel	BELGIUM
UL	University of Ljubljana	SLOVENIA
NUACA	National University of Architecture and Construction of Armenia	ARMENIA
YSU	Yerevan State University	ARMENIA
ANAU	Armenian National Agrarian University	ARMENIA
CCRA	Cadastre Committee of the RA	ARMENIA
MESCS	Ministry of Education, Science, Culture and Sports	ARMENIA
KSUCTA	Kyrgyz State University of Construction, Transport and Architecture	KYRGYZSTAN
KSMU	Kyrgyz State University of Geology, Mining and Natural Resources	KYRGYZSTAN
OshTU	Osh State Technological University	KYRGYZSTAN
Goscartography	Kyrgyz State Cartography-Geodetic Service	KYRGYZSTAN
MOES	Ministry of Education and Science	KYRGYZSTAN



Objectives (1)

- ✓ To **identify research** and development **needs** of Kyrgyzstan and Armenia in the field of Geoinformation Technologies (GIT)
- ✓ To **create Research Nodes** in GIT to promote and harmonise collaborative innovation projects and joint research lines
- ✓ To improve and **update research laboratories** of GIT
- ✓ To **train trainers** in topics of GIT of special interest **for regional development** of innovation and environmental protection

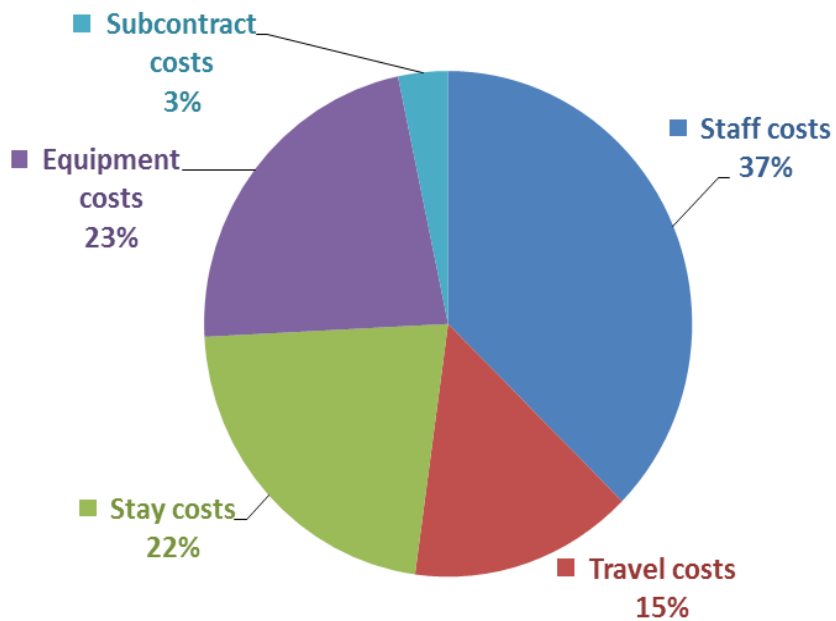


Objectives (2)

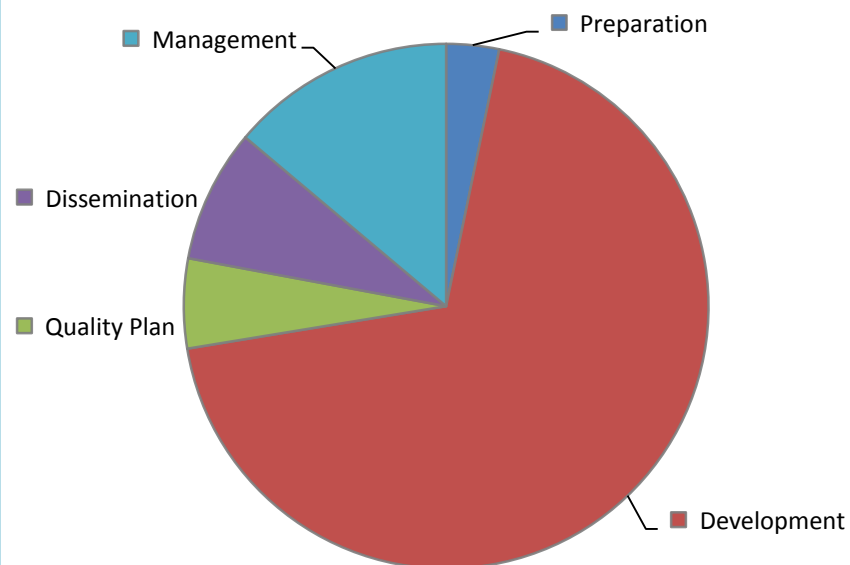
- ✓ To provide teachers and managers from HEI knowledge and **skills in transversal topics** of higher education following Bologna process
- ✓ To create **interdisciplinary postgraduate courses and PhD programs** that enhance the potential of GIT and focus research outputs on contemporary problems at regional and global scales
- ✓ To foster and strength the **cooperation** between **university and industry**
- ✓ To **share experiences and perspectives** between partner countries to stimulate new strategies in research and development

Total budget: 873,769 euros

Budget by Headings



Budget by WP Type



Project development

Work Packages

Social needs (KSUCTA)

- Identification of research & development needs
- Workshops research & innovation

Research networks (KTH)

- Creation of National Research Nodes in GIT
- Promoting industrial PhD thesis
- Intl. workshop: Sharing experiences in R&I

Research capacities (UL)

- Equipment, research labs
- Training teachers in GIT and transversal skills
- Curricula development at postgraduate level

Quality control (VUB)

- Quality plan and risk assessment
- Internal and external evaluation

Management (UPV)

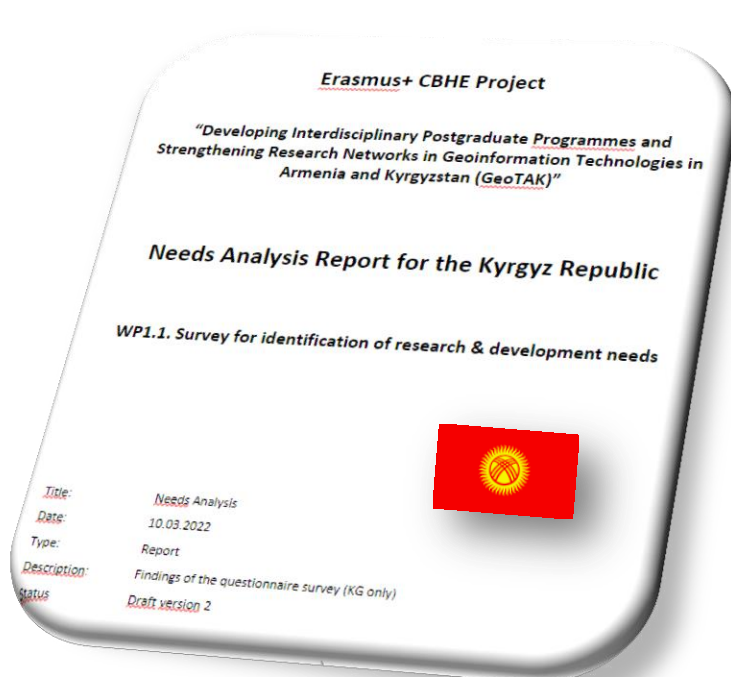
- Management committee
- Communication and reporting

Dissemination & exploitation (NUACA)

- Websites and social networks
- Promotion and sustainability of NRN-GIT
- Labour market days, final conference

Social needs (KSUCTA)

- 2 Reports on **social needs** in GIT





Research networks (KTH)

- Constitution of **Advisory Boards** and first meetings



Creation of **National Research Nodes** in GIT

Research capacities (UL)

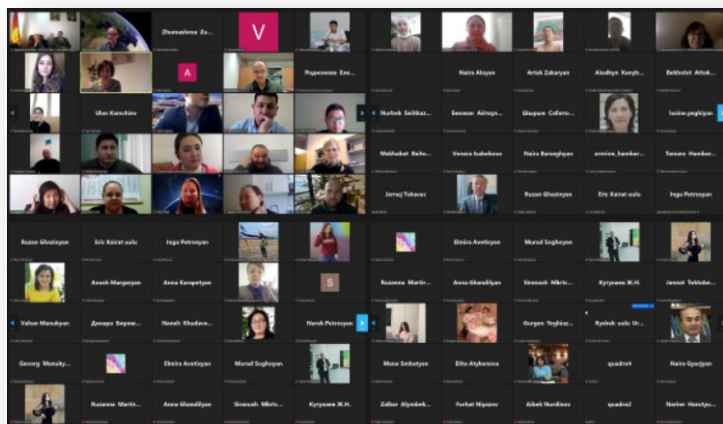
- **Equipment acquisition**
- Opening new **Labs** in GIT



Research capacities
(UL)

- Technical **trainings** in GIT
- **Workshops** in Curricula development / Innovation

Online course: Basic concepts in GeoInformation Technologies



(January 2022, online)

Workshop: Curricula development (June 2022, Ljubljana)

Technical training: GIT for Natural Resources



(March 2022, Osh)

Research capacities (UL)

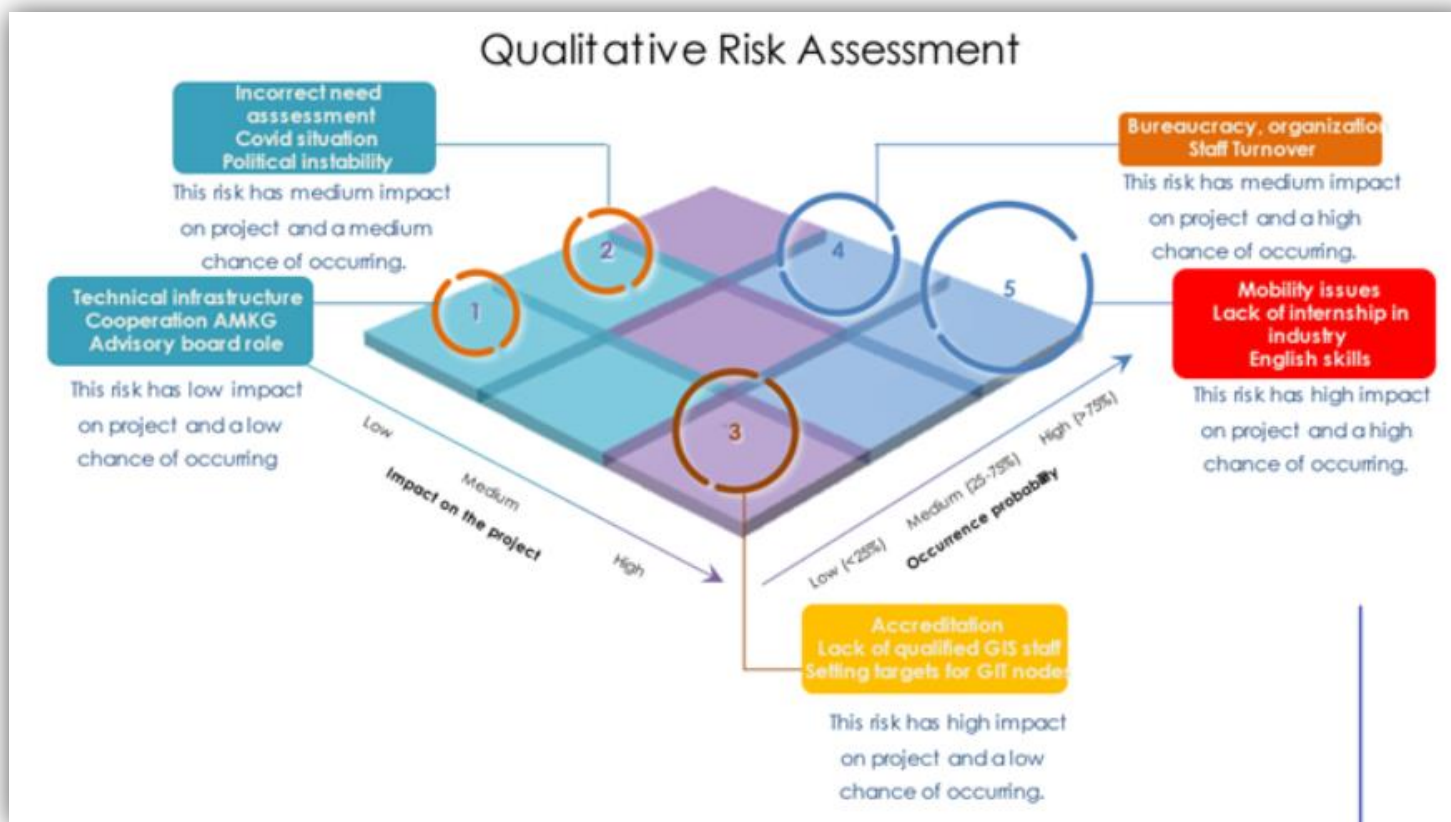
- PhD licenses in partner universities
- Curricula development & implementation



GENERAL COURSES		ECTS
Geoinformation technologies		
NUACA		
1	Scientific research methodology	2
2	Processing Methods of Aerospace Image for Spatial Analysis	5
3	3D modeling	5
D.1.4. YSU		
1	Modern teaching methods	2
2	Geospatial Data Mining	5
3	Scientific GeoComputing (GeoPython)	5
ANAU		
1	Applications of Remote Sensing in land use and environmental engineering	4
2	Land cadaster and information systems	4
3	Land management and land use planning	4
Total		12

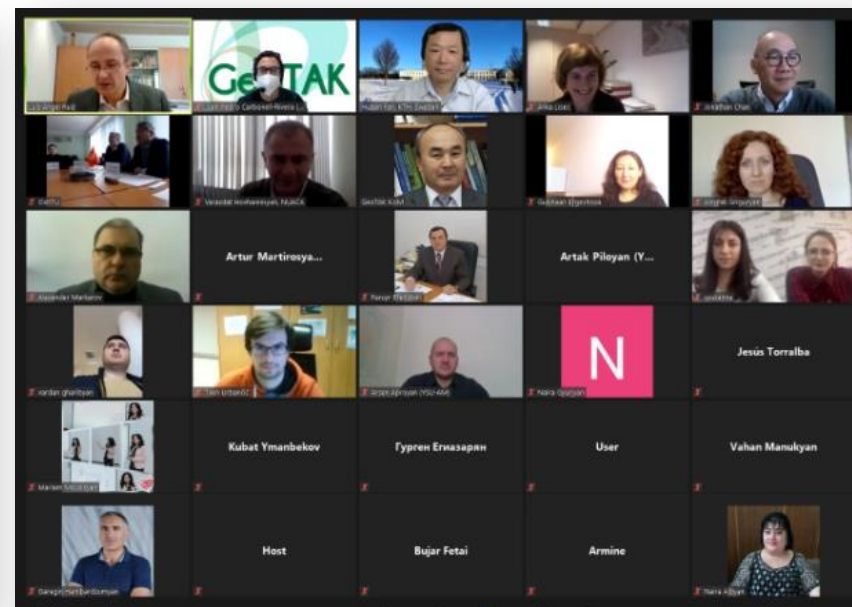
Quality control (VUB)

- **Quality plan and control**
- **Risk assessment**



Management (UPV)

- **Kick-off** meeting
- **Management** committee
- Project management **meetings**

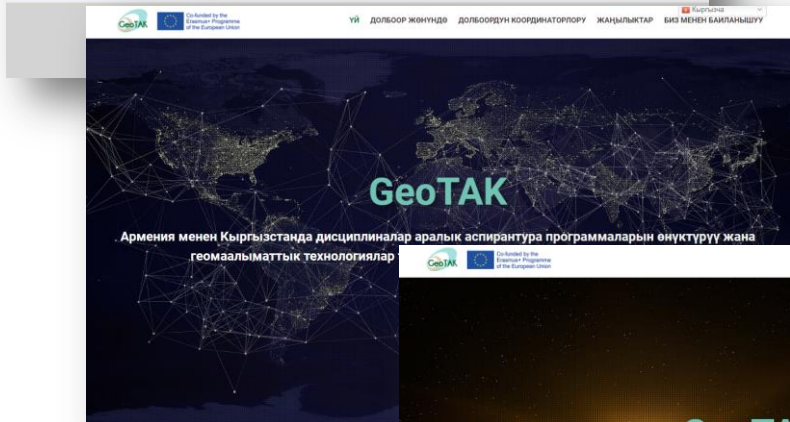


Dissemination & exploitation (NUACA)

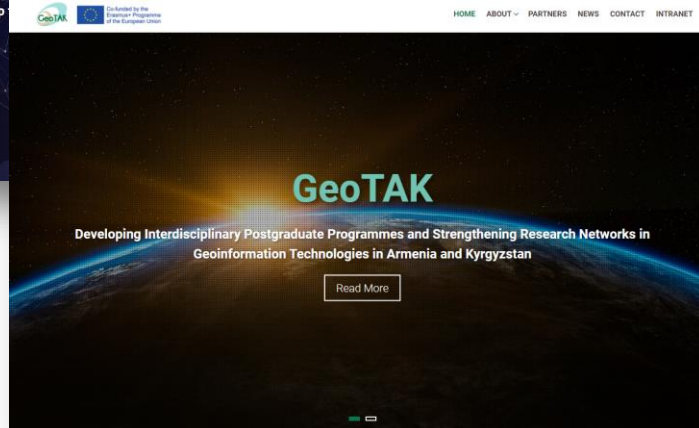
- **Websites & social networks**
- **Other dissemination activities**



<https://geotak.nuaca.am/>



<https://geotak.org.kg/>



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Information Day (NUACA)





Thank you for your attention!

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