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GeoTAK

GeoTAK *Kick-off meeting*

February 10-12, 2021

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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Polytechnic University of Valencia (Spain)
Project Coordinator

Polytechnic University of Valencia

➢ UPV is a Public Technical University with about 30,000 students

➢ 2,600 members of teaching and research staff;

➢ 1,500 administrative and services staff.

➢ 3 campuses

Valencia is located on the Mediterranean coast of Spain, with a population of 800,000, and about 90,000 students
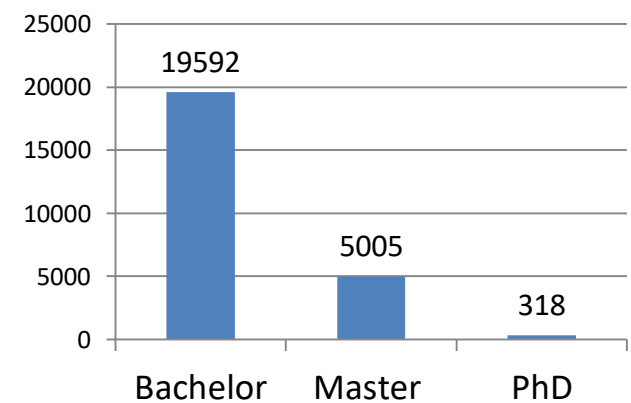
Polytechnic University of Valencia

ARCHITECTURE

ENGINEERING

BUSINESS

FINE ARTS

- ➤ 38 bachelor degrees
- ➤ 7 double BSc degrees
- ➤ 78 master degrees
- ➤ 9 double Ms degrees
- ➤ 30 PhD programs

Students

Bachelor	Master	PhD
19592	5005	318

➢ The UPV offers all its students training for the creation of **startup** companies, provides an **Entrepreneur Space** housing around 40 new and consolidated startups

➢ **Internationalization** is a key part of UPV, with 1,920 incoming and 1,374 ongoing students (academic year 2018/19)

➢ UPV's applied and **competitive research** makes it leader in Spain in **patent exploitation**

➢ The **Polytechnic Innovation Centre** (CPI), with more than 1,600 scientists, hosts institutes and technological centres **linked to industry needs**.

UNIVERSIDAD POLITECNICA DE VALENCIA

DEPARTAMENTO DE
INGENIERÍA CARTOGRÁFICA,
GEODESIA Y FOTOGRAMETRÍA

CGAT Grupo de Cartografía
GeoAmbiental y
Teledetección

GeoEnvironmental Cartography and Remote Sensing Research Group

Main Research Lines:

- Land Use / Land Cover mapping and change detection

- Coastal dynamics monitoring using images and LiDAR data

- Analysis of forest structure with LiDAR and laser scanning > Forest fire risk and behaviour

- Multitemporal landscape fragmentation analysis and relations with environmental and socio-economic variables

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Project description

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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

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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

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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

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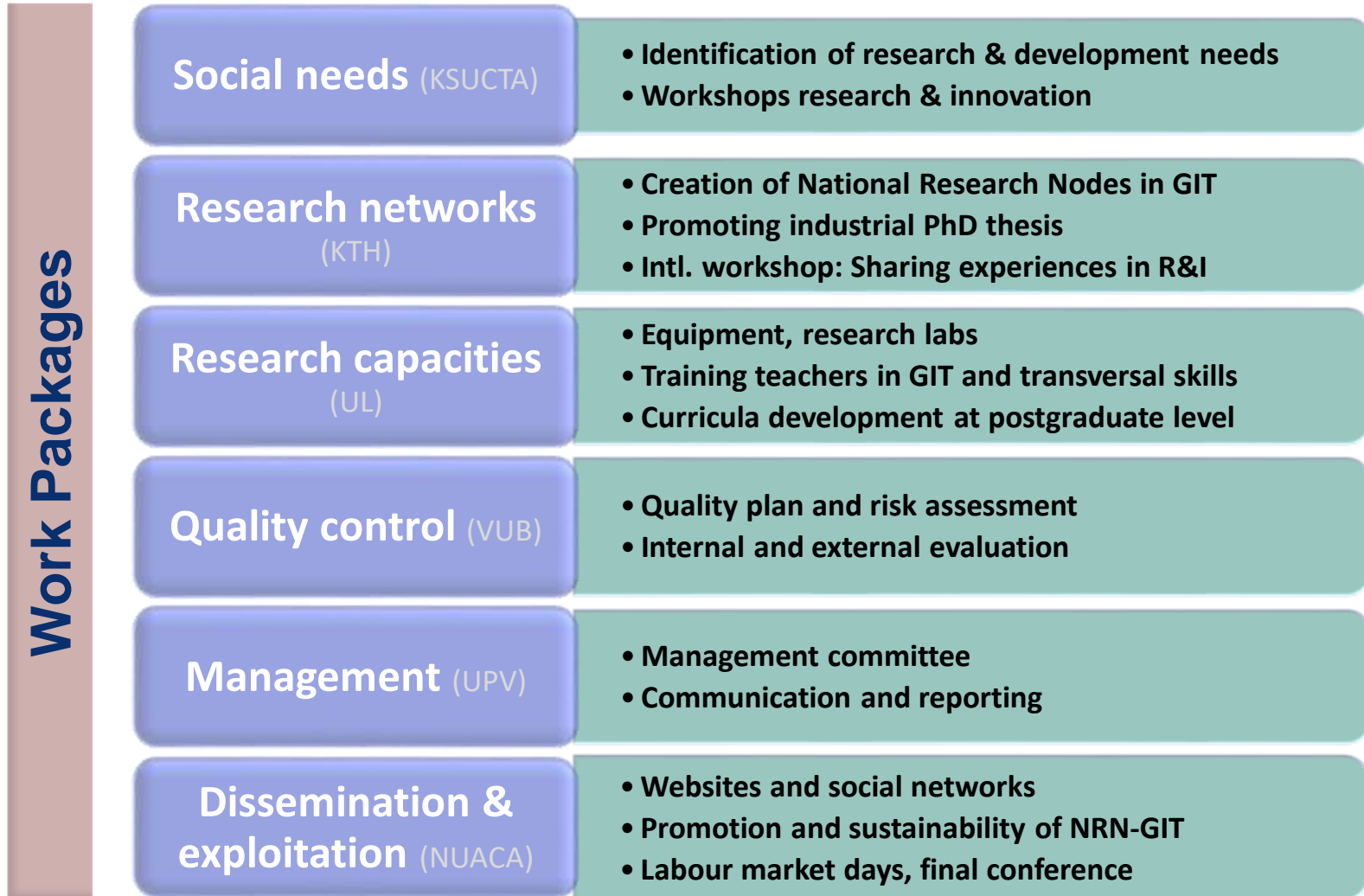Co-funded by the
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Objectives (2)

✓ 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 joint 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
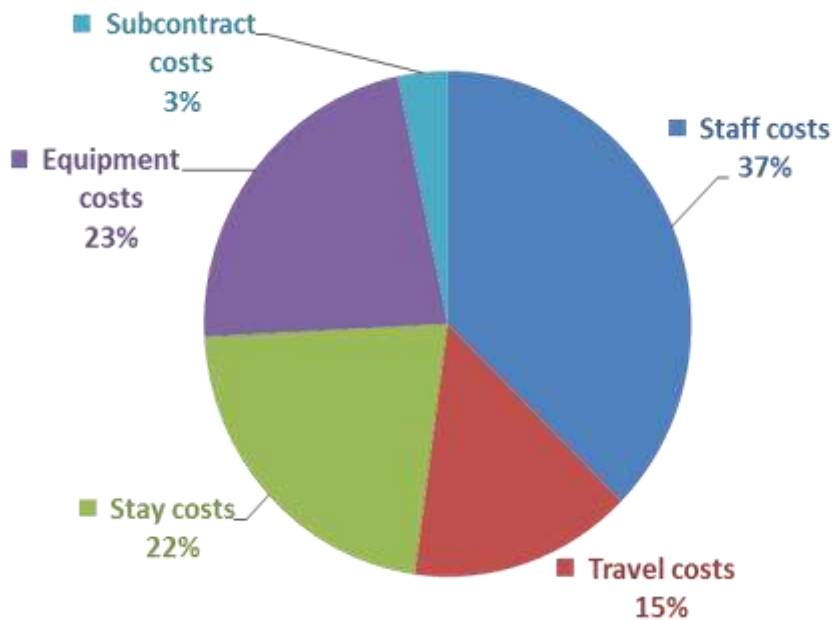
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Project development

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

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Total budget: 873,769 euros

Budget by Headings

- Subcontract costs **3%**
- Equipment costs **23%**
- Staff costs **37%**
- Stay costs **22%**
- Travel costs **15%**

Budget by WP Type

- Management
- Preparation
- Dissemination
- Quality Plan
- Development

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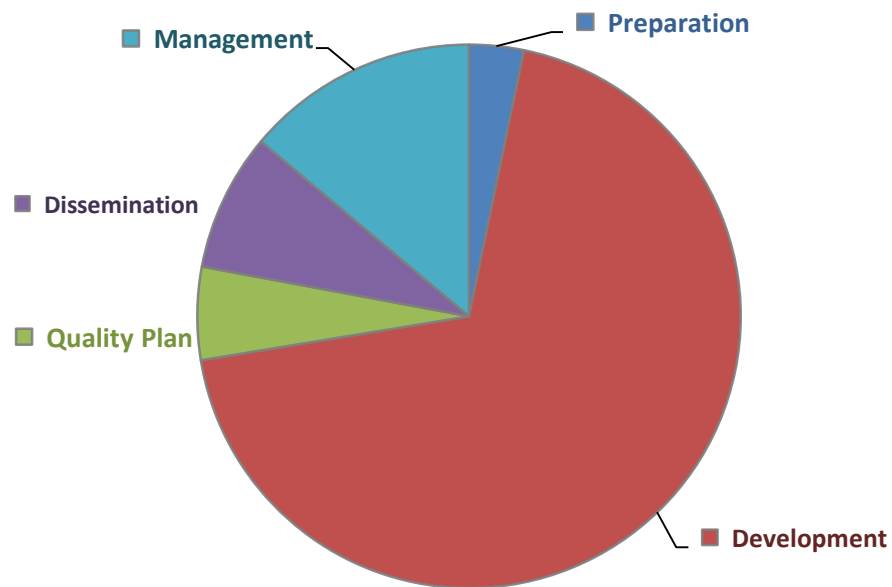
Final remarks

- Nowadays, **GIT**s play an important role **as catalyst of the economy**, environmental protection and decision-making at different levels

- Partner universities have consolidated experience in GIT at undergraduate level, now ready to **develop research and innovation capacities**

- **Interdisciplinarity** is key in modern Higher education curricula and a demand at professional level

- Post-graduate level **university** programs should focus on **social needs**, promote and collaborate with the **industry** sector

Thank you for your attention!