





DIGITAL TRANSFORMATION FOR RESPONSIBLE LAND ADMINISTRATION

FIG Commission 7 & 2 Annual Meeting 2023

2-4 October 2023, Deventer



# GLOBAL SURVEY ON ACADEMIC EDUCATION IN LAND SURVEYING/GEOMATICS

Rosario Casanova (Uruguay)   
Angel Collado (Spain) 

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Working Plan 2023–2026

## Project of Commission 2 in collaboration with YSN

### GLOBAL INVENTORY ON ACADEMIC EDUCATION IN LAND SURVEYING/GEOMATICS



Rosario Casanova  
(C2 Vice-Chair)



Angel Collado  
(YSN Representative to C2)

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## WHY? AND GOALS

- To better know and understand our academic discipline worldwide
- To analyze the learning contents of the curricula and other academic issues
- To strengthen FIG's professional and academic networks
- By means of an online survey filled out by the teaching staff around the world

**Global Inventory displayed in an accessible and interactive web map viewer**

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## METHODOLOGY

### GLOBAL ONLINE SURVEY



ENGLISH

- Basic information about the university and contact details
- Questions about the Bachelor's Degree and its curriculum
- Question about the professional requirements in your country
- Personal opinions about the current and future situation of our discipline
- Personal opinions about the meaning and relationship of different disciplines related to our profession.



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## METHODOLOGY

BASIC INFORMATION ABOUT THE UNIVERSITY AND CONTACT DETAILS



ENGLISH

- Name and Surname, Email and Role at Univ. (Contact Person)
- Country, City, University, Faculty/Department
- Web Link to Faculty/Department and Bachelor's Degree Syllabus



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# METHODOLOGY

## QUESTIONS ABOUT THE BACHELOR'S DEGREE AND ITS CURRICULUM



ENGLISH

1. Which of the following Bachelor's Degree names corresponds, most closely, to the one offered at your university?

- Land Surveying / Land Surveying Engineering
- Cadastral/ Cadastral Engineering
- Geomatics / Geomatics Engineering
- Geodesy / Geodetic Engineering
- Cartography/ Cartographic Engineering
- Geoinformatics / Geoinformation Engineering
- Geography/ Geographical Engineering
- Topography / Topographic Engineering
- The University only offers post graduate degrees (Master's Degree/PhD)
- Otros: \_\_\_\_\_



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## METHODOLOGY

### QUESTIONS ABOUT THE BACHELOR'S DEGREE AND ITS CURRICULUM



ENGLISH

2. What is the duration of this academic education at your university? \*

- Less than 3 years
- 3 years
- 4 years
- 5 years
- More than 5 years

3. When did the degree program begin to be taught at your university? In what year was the current syllabus implemented? \*

Tu respuesta \_\_\_\_\_



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# METHODOLOGY

## QUESTIONS ABOUT THE BACHELOR'S DEGREE AND ITS CURRICULUM



ENGLISH

4. Indicate the relevance of the following disciplines in the syllabus. \*

	0 - None	1 - Low Weight	2	3	4	5 - High Weight	I don't know
Geography and Geoinformation	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Geodesy and Map Projections	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Land Surveying Methods	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Geophysics	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Astronomy	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Photogrammetry and Remote Sensing (Imagery)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
3D Surveys (LIDAR/SONAR)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Geoinformation Processing (Programming)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>



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## METHODOLOGY

QUESTIONS ABOUT THE BACHELOR'S DEGREE AND ITS CURRICULUM



ENGLISH

5. Our profession is in continuous scientific and technological evolution. In the case of a revision or update of the syllabus, what new subject or concept would you include or to which discipline would you give more relevance in the new syllabus? \*

Tu respuesta



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# METHODOLOGY

## PERSONAL OPINIONS ABOUT THE CURRENT AND FUTURE SITUATION OF OUR DISCIPLINE



ENGLISH

6. Regarding the enrollment of new students, with which statement do you most agree for your program? \*

- The number of new students is low and insufficient
- The number of new students is adequate and satisfactory
- The number of new students is excessive

7. Regarding the academic future of our profession, with which statements do you feel identified? \*

- I am not worried, our university degree will continue to exist
- I am worried that the low number of students may lead to the disappearance of the degree.
- I am worried, other degrees are teaching our discipline and capturing a larger number of students.
- Otros: \_\_\_\_\_



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## METHODOLOGY

PERSONAL OPINIONS ABOUT THE MEANING AND RELATIONSHIP OF DIFFERENT DISCIPLINES RELATED TO OUR PROFESSION.



ENGLISH

8. What do you understand by Geomatics, Land Surveying, Land Administration, \* Land Management and Geospatial Science? What do you think is the relationship between all them in your country?

Tu respuesta



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## METHODOLOGY

### QUESTION ABOUT THE PROFESSIONAL REQUIREMENTS IN YOUR COUNTRY



ENGLISH

9. Regarding the practice of the profession in your country, especially for Cadastral Surveys, is it regulated? If so, what are the requirements to obtain a professional license? \*

- It is not regulated; any professional with knowledge in the area can practice the profession.
- Yes, with a Bachelor's Degree
- Yes, with a Bachelor's Degree plus a minimum of professional/research experience/training.
- Yes, with a Bachelor's Degree plus an exam
- Yes, with a Bachelor's Degree plus a minimum of professional/research experience/training and an exam
- Otros: \_\_\_\_\_



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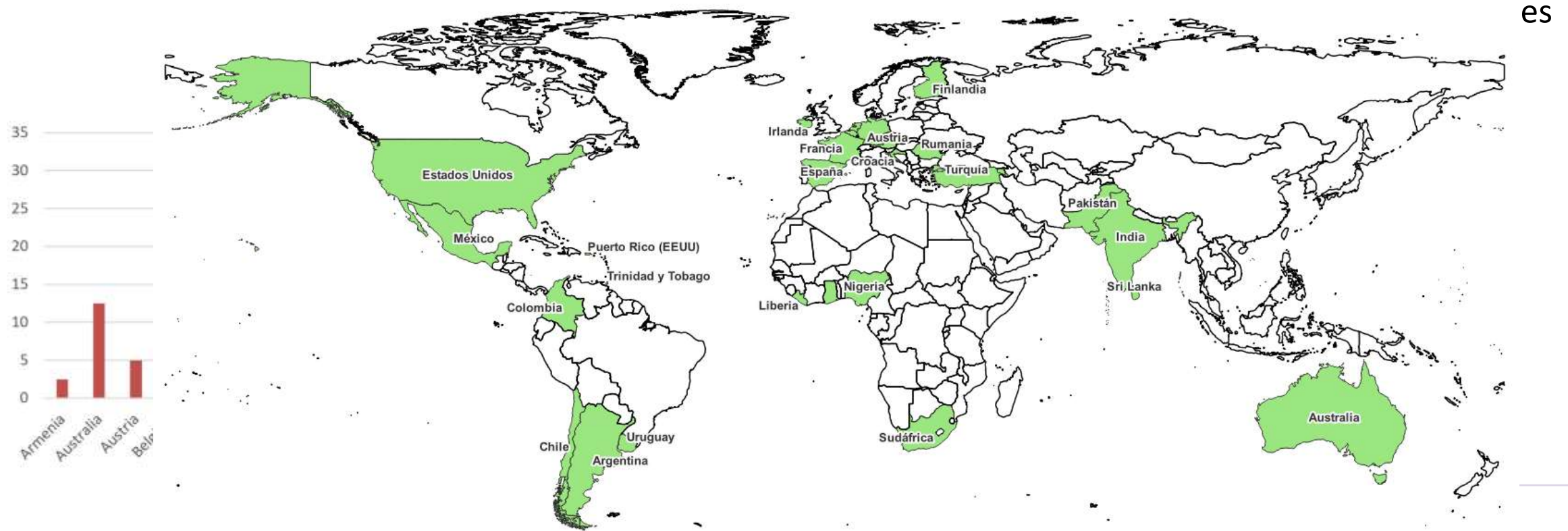


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## SOME PRELIMINARY RESULTS



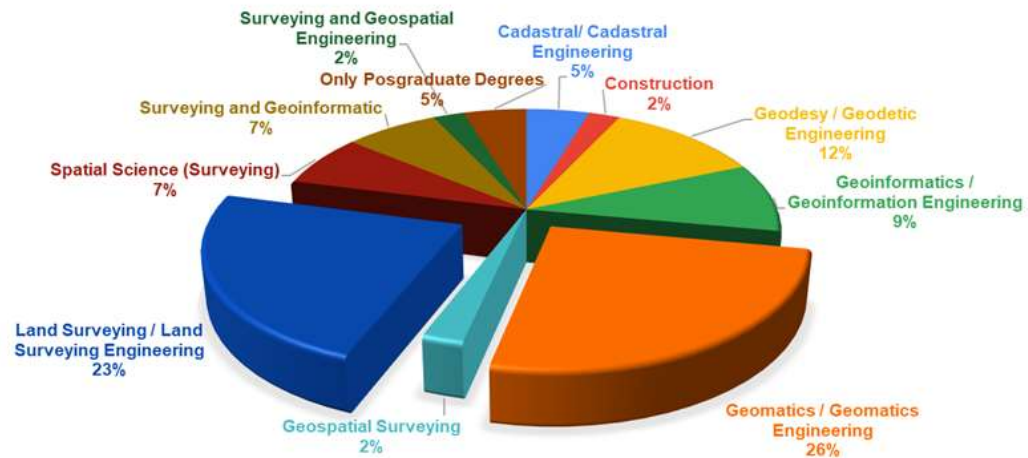
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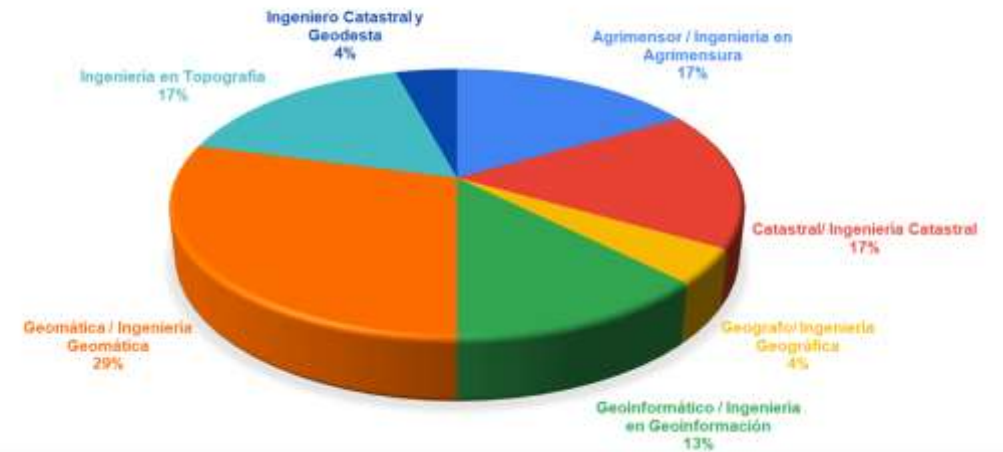


## SOME PRELIMINARY RESULTS

WHICH OF THE FOLLOWING BACHELOR'S DEGREE NAMES CORRESPONDS, MOST CLOSELY, TO THE ONE OFFERED AT YOUR UNIVERSITY?



QUÉ NOMBRE DE TITULACIÓN UNIVERSITARIA, DE LAS QUE SE ENUMERAN A CONTINUACIÓN, CORRESPONDE O SE ASEMEJA MÁS A LA OFERTADA EN SU UNIVERSIDAD?



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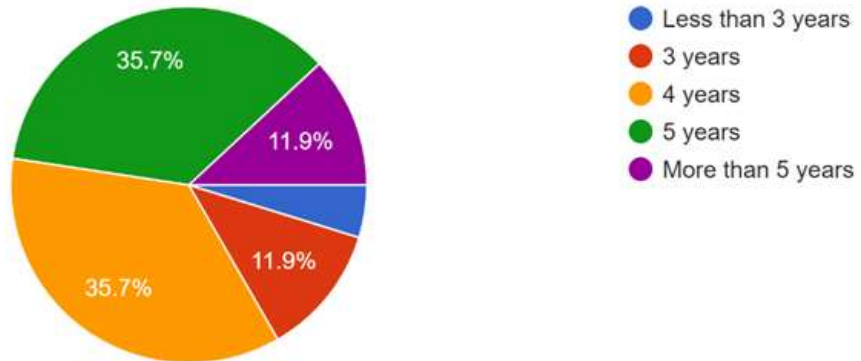




## SOME PRELIMINARY RESULTS

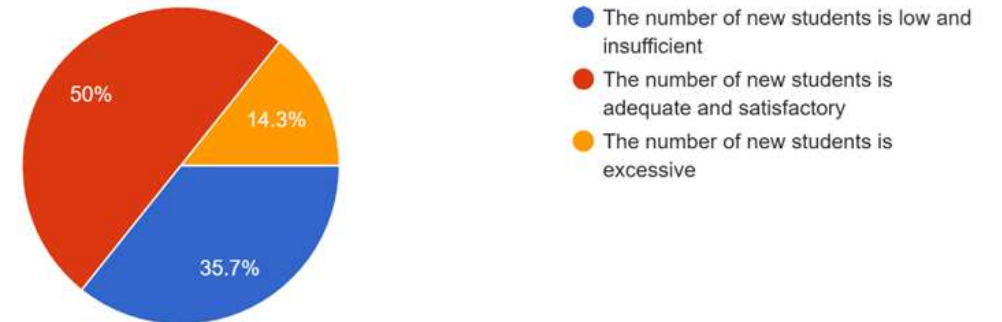
2. What is the duration of this academic education at your university?

42 respuestas



6. Regarding the enrollment of new students, with which statement do you most agree for your program?

42 respuestas



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4. Indicate the relevance of the following disciplines in the syllabus. \*

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Geodesy and Map Projections	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>			
Land Surveying Methods	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>			
Geophysics	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>			
Astronomy	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>			
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3D Surveys (LIDAR/SONAR)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>			
Geoinformation Processing (Programming)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>			
GIS and Databases	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>			
Geospatial Analysis/Geostatistics	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>			
3D Modeling	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Cartography	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Augmented Reality	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Geoportals and Geoservices Implementation	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Cadastral	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Land Administration and Management	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Land/Territorial Law	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Valuations	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Civil Engineering and Construction Applications	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Geological-Mining Engineering Applications	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

**SOME PRELIMINARY RESULTS:**

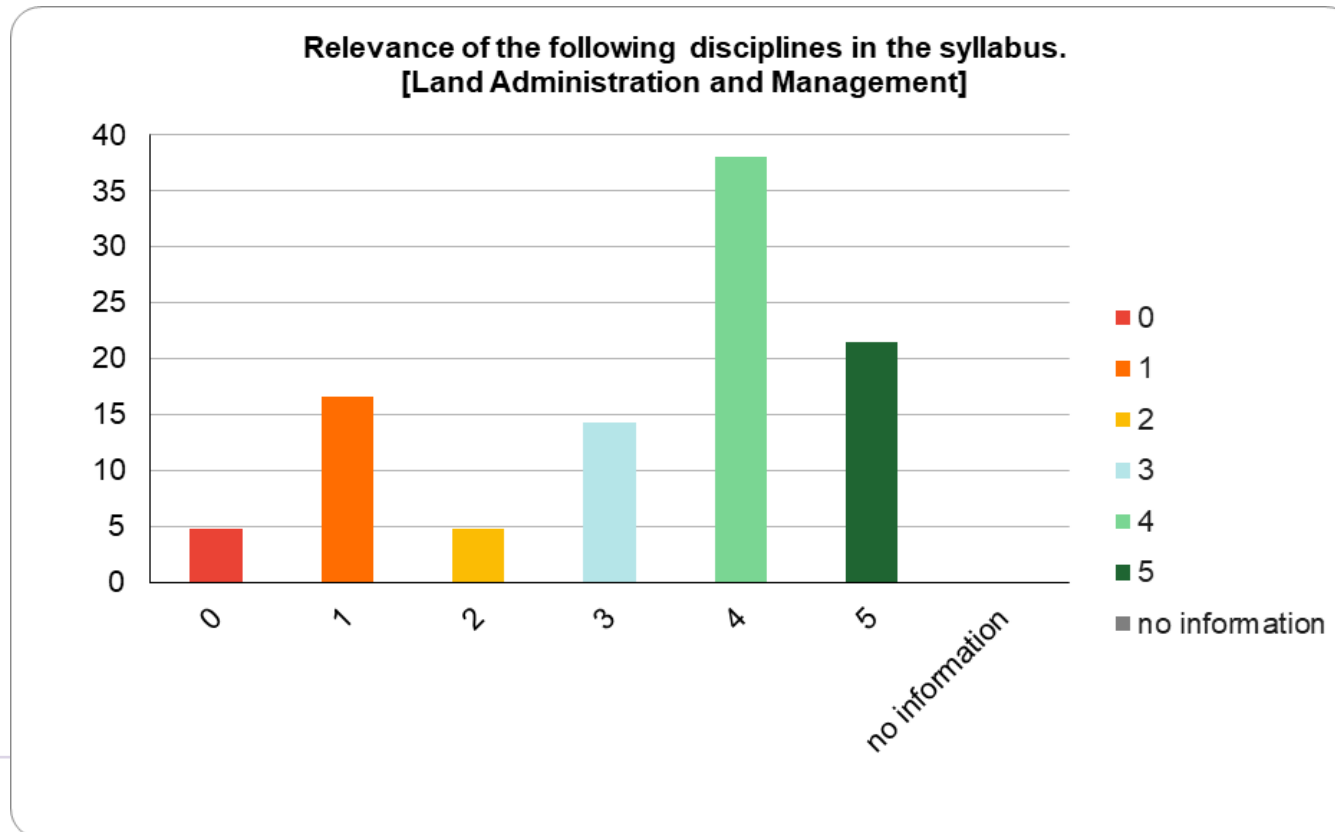
**THEMATICS**

Heritage Applications	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Industrial Applications and Metrology	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Hydrographic Applications	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Environmental/Climate Applications	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Agroforestry Applications	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Medical and Forensic Applications	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Geohumanities Applications	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Ethical use of Geographical information	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Education about SDG	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>





## SOME PRELIMINARY RESULTS: THEMATICS



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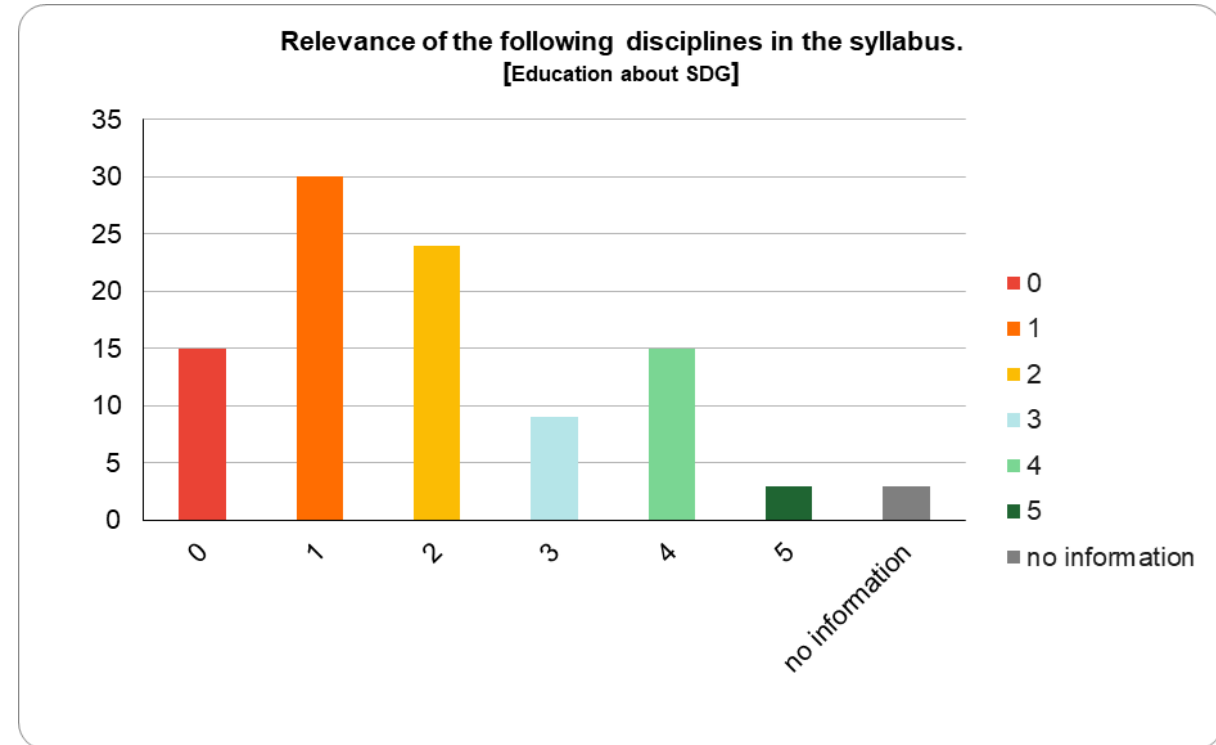
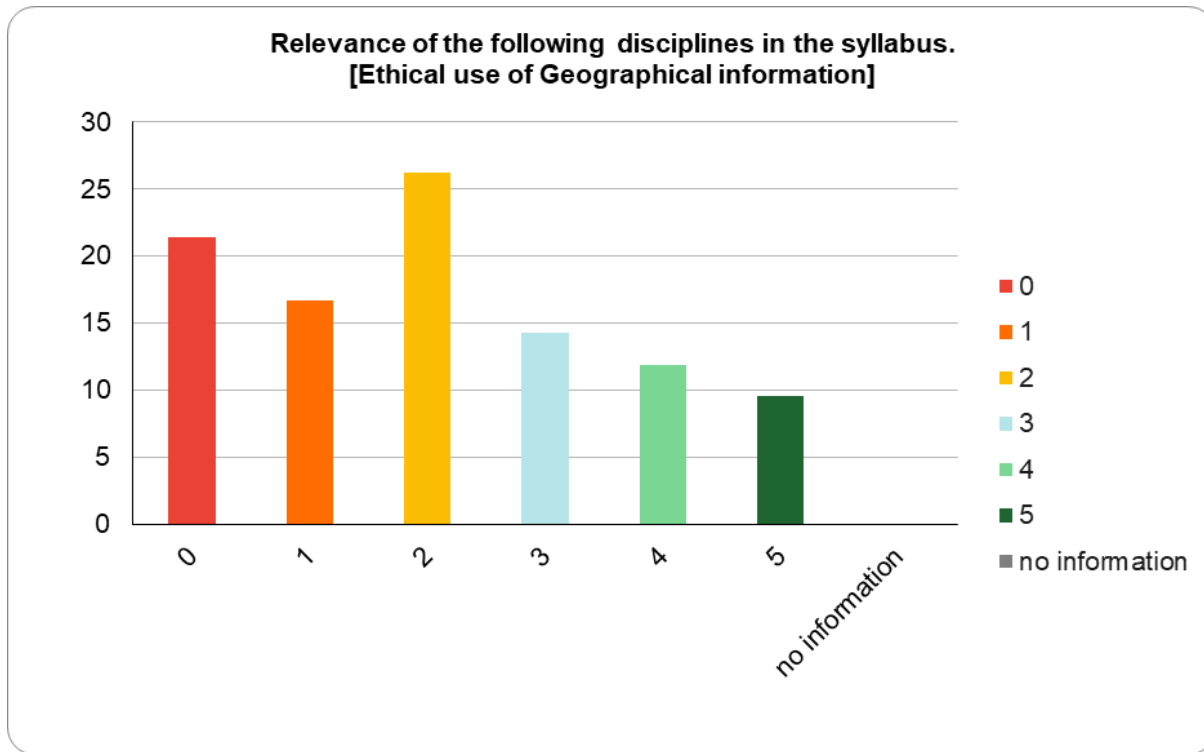


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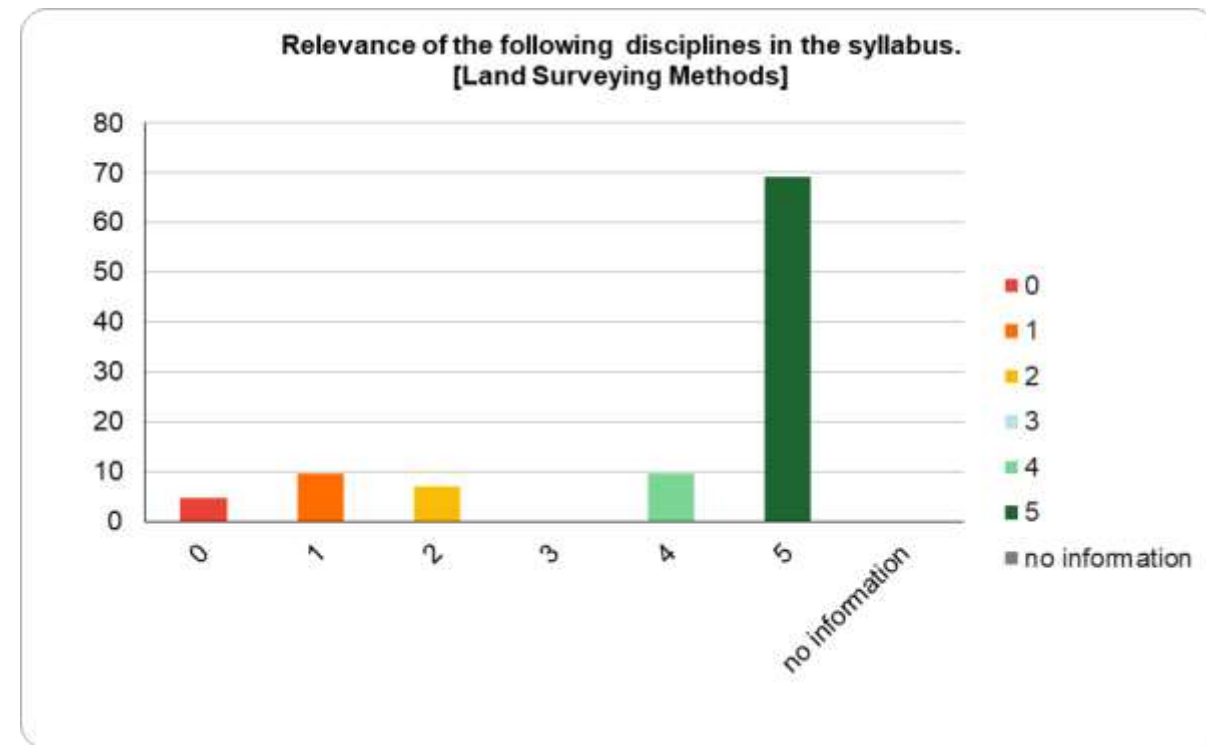
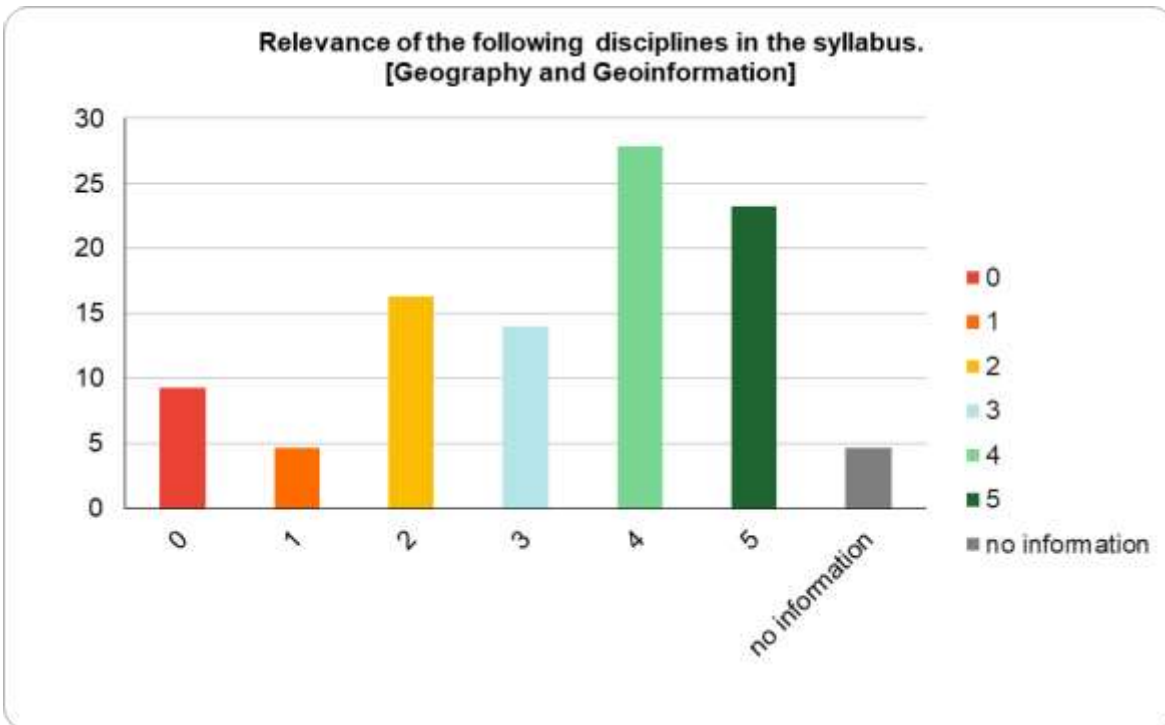


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## FINAL COMMENTS

**Are we really including the thematics our nowadays professionals require?  
Our societies need?**

**Work to be done !**

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