



UN-GGIM:Americas

REGIONAL COMMITTEE OF UNITED NATIONS
ON GLOBAL GEOSPATIAL INFORMATION
MANAGEMENT FOR THE AMERICAS



UNITED NATIONS

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X SESSION

UN-GGIM:

AMERICAS

October 18, 19 and 20 - 2023

Santiago de Chile, ECLAC

Geo - Ethics

***PhD. Rosario Casanova – Chair Academic Network
UN-GGIM: AMERICAS***

Content

Importance

Past activities

Now/ Future?



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Importance

**PANDEMIA
COVID 19
VISIBILITY**

What is data ethics?

The Open Data Institute defines data ethics as:

“

‘A branch of ethics that evaluates data practices with the potential to adversely impact on people and society – in data collection, sharing and use’

”

Data ethics relates to good practice around how data is collected, used and shared. It is especially relevant when data activities have the potential to impact people and society, directly or indirectly.

For example, an automated data model might make decisions about whether someone is eligible for a mortgage, or what insurance they can be offered. And decisions about what data to collect – and what to exclude – might affect groups in a society.

Data ethics should be addressed at all stages:

- **Stewarding data** – collecting it, maintaining it and sharing it
- **Creating information from that data** – in the form of products and services, analysis and insights, or stories and visualisations
- **Deciding what to do** – informed by information from multiple sources along with experience and understanding



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benchmarkinitiative.com

BENCHMARK

About Charter Events Blog Contact

Raising standards for location integrity

Exploring the ethics behind the responsible use of location data.

[Read More](#)

EthicalGEO

who we are

The American Geographical Society's EthicalGEO Initiative seeks to activate thinkers, innovators, entrepreneurs, policymakers, practitioners, students, and everyday citizens and bring them into a global dialogue that shines a light on their best ideas about the ethical challenges and opportunities posed by the many geospatial technologies and data sources that are reshaping our society.

our priorities

PRIVACY
Defining our rights to privacy in an age of location tracking

POLITICS
Investigating how governments use data to draw maps, inform policing, and surveil citizens

what we do

FELLOWS
EthicalGEO supports research fellows tackling issues at the intersection of ethics and geospatial sciences. EthicalGEO Fellows are using high-tech survey tools to empower informal land rights activists, providing low-tech training for communities experiencing environmental injustice, evaluating individual conceptions of privacy, providing educators with resources to teach students about geoprivacy, and more.

MEETINGS
EthicalGEO Fellows and representatives attend leading geographic conferences including American Geographical Society's Keystone Geography 2050 Symposia to raise awareness about EthicalGEO.

BLOG
The EthicalGEO Blog and social media platforms explore our priority issues and spur conversation with the public.

DATABASE
EthicalGEO is assembling an online reference database with resources for researchers working to understand

"Ethics is about how we ought to live together. The creation of and access to [geographical data] means we live together differently today than we did before. That's potentially a very good thing, but for it to be good, we must do the hard work of deciding who we are in relation to our data."

theodi.org/about-the-odi/

open data institute

The Week in Data | Membership | Jobs | Contact us | You

Knowledge & opinion | Projects & services | Training & events | Our community | About the ODI

Search the ODI

Our strategy | Tender opportunities | ODI Team | Contact us | Terms of use, privacy and policies | Jobs | Brand | Annual reports and financial statements

About the ODI

The ODI is a non-profit with a mission to work with companies and governments to build an open, trustworthy data ecosystem. We work with a range of organisations, governments, public bodies and civil society to create a world where data works for everyone.

The ODI is a non-profit company, founded in 2012 by Sir Tim Berners-Lee and Sir Nigel Shadbolt. Since 2017, the ODI's operating costs of around £6m per annum have been met through a range of grants and commercial revenue.

Many of our products and services are available openly and for free, including our reports, tools and webinars.

What we believe

At the ODI, our mission is to work with companies and governments to build an open, trustworthy data ecosystem.

We want a world where data works for everyone. This means getting data to those who need it, particularly in response to the UN Sustainable Development Goals.

To achieve our mission, we:

- work with organisations to help them use better data practices
- work with sectors and regions to ensure data is helping them
- help interpret and apply the latest thinking around data and data infrastructure.

What are we?

The ODI operates as an institute, and we also undertake commercial work that advances our mission. We:

Contact us and get involved

- ODI Team
- Jobs
- Press and media
- Tender opportunities

"Ethics is about how we ought to live together. The creation of and access to [geographical data] means we live together differently today than we did before. That's potentially a very good thing, but for it to be good, we must do the hard work of deciding who we are in relation to our data."

Michael Rozier, S.J., Ph.D.
2019-2020 EthicalGEO Fellow

ethicalgeo.org/locus-charter/

EthicalGEO

LOCUS CHARTER

The Locus Charter proposes that wider, shared understanding of risks and solutions relating to uses of location data can improve standards of practice, and help protect individuals and the public interest. We hope the Charter can improve understanding of risk, so those can be managed, and the many benefits of geospatial technologies can be realized for individuals and societies.

"Locus" is the Latin word for "place."

ABOUT US

Since 2019, the Benchmark and EthicalGEO initiatives have supported international dialogues with geospatial professionals and organizations, to explore what it means to use location data responsibly in different contexts. These dialogues have strongly suggested that common international principles could help users of geospatial data make more informed decisions, and provide the basis for communication with people affected by those decisions.

Developing common global principles must be a collaborative activity, respecting international contexts and perspectives. The Locus Charter as presented here was developed through our initial international workshops, and forms the basis for further collaboration.

[Read the Charter](#)

geoethics.org

PLACET NATURA REGI TERRAM

INTERNATIONAL ASSOCIATION for PROMOTING GEOETHICS

Homepage | Who we are | Organization | School on Geoethics | Projects | Publications | Tools | Events | Membership | More

The International Association for Promoting Geoethics (IAPG) is a multidisciplinary, scientific platform for widening the discussion and creating awareness about problems of Geoethics and Ethics applied to the Geosciences.

IAPG is legally recognized as a not-for-profit association, has 2895 members in 127 countries on 5 continents, and can count on a network of 35 national sections.

IAPG works to developing theoretical and practical activities covering a wide range of contents comprising: philosophy of geosciences and history of geosciences thinking; research integrity and professionalism in geosciences; working climate issues and related aspects; geoethics in georisks and disaster risk reduction; responsible georesources management; ethical and social aspects in geoeeducation and geoscience communication;

Follow us on: [f](#) [in](#) [t](#) [o](#) [v](#) [v](#)

Activities	Document Type
<ul style="list-style-type: none"> Locus Charter (Benchmark Initiative & EthicalGEO) 	Global Strategic Principles
<ul style="list-style-type: none"> ODI Data Ethics Canvas GEO - Data Working Group Ethics Best Practices Geonovum - Ethical Framework OGC - GeoEthics adhoc 	Frameworks / <u>Best Practices</u>
<ul style="list-style-type: none"> W3C SDWWG - Responsible Use Guide Godan - Code of Ethics Toolkit SDSN TReNDS - Data Collaboration Contracts Omidyar Network - Ethics Explorer DevGRG - Ethical Research Guidelines for Development 	Guides / Guidelines / Templates
<ul style="list-style-type: none"> URISA / GISCI (EE. UU.) SEIC (Australia and New Zealand) RICS (United Kingdom) ASPRS (US) 	Codes of ethics
	Denise McKenzie. 2021.



Euro Spatial Data Research Board of Directors Meeting, Gavle, Sweeden, October, 5, 2023

Norbert Haala:
“Be aware of the process”

Benedicte Boucher:
“How to raise users´ s voices...”

Jeroen Leusink:
“Information safety & Privacy”

Jordi Escriu:
“Building trust...”

...

143rd EuroSDR Board of Delegates meeting: Country Day

Wednesday 4th October 2023

Lantmäteriet's head office, Lantmäterigatan 2 C, Gävle



Moderators: Tobias Lindholm and Anders Rydén, Lantmäteriet

12:30	Lunch at Kompassen	
14:00	Start of Country Day	
	Welcome address	Anders Lundqvist (Deputy General Director Lantmäteriet)
	Introduction and practical's	Tobias Lindholm (Lantmäteriet)
	EuroSDR: General introduction	Wolfgang Gold (EuroSDR President)
SESSION 1	<i>Overarching issues</i>	
14:45	White areas on the map	Patrik André (Swedish Forest Agency)
	Sweden 2040 and competence requirements	Magnus Forsberg (Swedish Geodata Council)
	National land cover mapping	Camilla Jönsson (Swedish Environmental Protection Agency)
16:00	Break	
SESSION 2	<i>Deep dive</i>	
16:30	Gothenburg municipality – Digital twins	Eric Jeansson (Gothenburg municipality)
	Digital Twin Cities Centre – Challenges in data management	Anders Logg (Digital Twin Cities Centre)
	National forest maps derived using remote sensing data	Mats Nilsson (National Forest Data Lab)
	Exploiting open geodata for urban climate planning applications	Fredrik Lindberg (University of Gothenburg)
18:00	Closure of Country Day	
19:00	Reception at Elite hotel	

Thursday 5th October 2023

Elite Grand Hotel, Kyrkogatan 28, 803 11 Gävle

Chairman: Fabio Remondino, Vice-President

09:35	Start of Science session I	
09:35	Introduction by Vice-President	Fabio Remondino
09:45	Report of Activities of Commission 1: Data Acquisition	Jon Mills Eija Honkavaara
10:05	Report of Activities of Commission 2: Modelling, Integration and Processing	Norbert Haala
10:20	Break	
10:50	Report of Activities of Commission 3: Information Usage and Visualization	Martijn Rijdsdijk
11:10	Report of Activities of Commission 4: Business Models and Operations	Frédéric Cantat
11:30	Report of Activities of Commission 5: Knowledge Transfer	Anka Lisec
11:50	2023 EuroSDR PhD award winner	Ana-Maria Loghin
12:10	Handover award	Anka Lisec
12:15	New member: het Waterschapshuis	Jeroen Leusink
12:25	EuroSDR Survey on the availability of open point clouds, and their specifications, in Europe	Daan van der Heide (Rijkswaterstaat) Jeroen Leusink (Het Waterschapshuis) Jantien Stoter (TU Delft)
12:30	Lunch	
13:30	Vice-Presidency presentations	Candidates for Vice-President
14:00	Introduction keynote presentation	Fabio Remondino
14:05	Keynote presentation: Digital Cameras	Michael Cramer

14:30	Introduction breakout session	Fabio Remondino
14:35	Breakout session: Open/private satellite data & services for NMCA's	
15:10	Break	
15:30	Summary breakout session	Fabio Remondino
15:50	NMCA challenges: Spain and France	Julián Delgado Hernández Frédéric Cantat
16:30	70 Years EuroSDR	Wolfgang Gold Joep Crompvoets André Streilein Jon Arne Trollvik
17:00	Closure of Science session I	

143rd EuroSDR Board of Delegates meeting: Science session II

Friday 6th October 2023

Elite Grand Hotel, Kyrkogatan 28, 803 11 Gävle



Chairman: Fabio Remondino, Vice-President

09:00	Start of Science session II	
09:00	Introduction by Vice-President	Fabio Remondino
09:05	Introduction keynote presentation	Fabio Remondino Joep Crompvoets
09:10	Keynote presentation: Data/Data Governance Act	Jordi Escriu
09:35	Open discussion Data/Data Governance Act	
09:50	EuroSDR membership fees	Wolfgang Gold
10:05	Standards from a NMCA perspective	Katarina Ritz
10:15	Vice-Presidency voting	Conor Cahalane
10:25	Break	
10:55	Members and associate members' session: Esri	Konrad Wenzel/Nick Land
11:10	Closure Vice-President	Fabio Remondino
11:25	Geo-ethics survey	Rosario Casanova
11:40	Closure of Science session II	



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Past activities

Webinars

Articles

Surveys/Results



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Past activities

Ethics in Geographic Information

El uso ético de la información geográfica

Education in the Ethical Use of GIS and Spatial Data

Symposium | March 22 | Register here | Please leave your additional questions, comments, and thoughts from the event below by commenting on...

Webinars

Ethics in Geographic Information
Workshop and Symposium | March 22, 2021

Education in the Ethical Use of Geographic Information

Symposium: Education in the Ethical Use of GIS & Spatial Data

11:30 AM - 11:40 AM (PST)
Opening Remarks | Gabriela Garcia-Serna (Executive Secretary of UN-GGIM, Argentina)

11:40 AM - 12:10 PM (PST)
Keynote: Teaching Ethical Use of GIS and Spatial Data | Doree Sinker (Cornell University and UC GIS)

12:10 PM - 12:20 PM (PST)
Survey on "Teaching Ethics in the Use of GIS in the Americas" | Rosario Casanova (UN-GGIM, AMU)

12:20 PM - 12:50 PM (PST)
ENGLISH Experiences of Teaching Ethics Related to GIS, 10 Minute Presentations, Q&A, and Open Discussion | English Discussion Moderated by Charlotte Smith (UN-GGIM, ANU, U.C. Berkeley)
Panelists: Michael Goodchild (U.C. Santa Barbara), David (Dillon) Pennsylvania State Univ., Brian Liu (Ohio State)

12:50 PM - 1:20 PM (PST)
SPANISH Experiences of Teaching Ethics Related to GIS, 10 Minute Presentations, Q&A, and Open Discussion | Spanish Discussion Moderated by Rosario Casanova (UN-GGIM, AMU) | Panelists: Gabriela Cambria (Gandiva (Ohio - Costa Rica), Ruth Tapia Rodriguez (Ohio - Palmyra de Puerto Rico), Edilson Ros (Ohio - de Brazil)

1:20 PM - 1:30 PM (PST)
Next Steps and Future Directions

SMART SURVEYORS FOR LAND AND WATER MANAGEMENT
CHALLENGES IN A NEW REALITY

FIG NL
THE NETHERLANDS

WORKING WEEK 2021
20-25 JUNE

Rosario Casanova and Paula Caram

Paper ID-11120
Teaching on the ethical use of geographic information in America

21 June 2021, 10:30 CET

FIG Working Week 2023
28 May - 1 June 2023 Orlando Florida USA

Protecting Our World, Conquering New Frontiers

Professional Education in Ethics?

PhD. Rosario Casanova
Chair Academic Network UN-GGIM: America
casanova@fing.edu.uy



Semana Geomática
Internacional 2022 9ª Edición

Uso ético de los datos geográficos: privacidad y enseñanza

Dra. Rosario Casanova
casanova@fing.edu.uy



Ciclo de webinarios

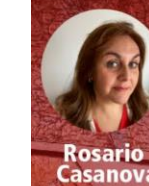
Núcleo Disciplinario Geotecnologías y Ciencias Atmosféricas

17
SEPTIEMBRE

17 horas | Buenos Aires / Brasilia / Montevideo
16 horas | La Paz / Asunción / Santiago de Chile

Transmisión en vivo:
/AUGMOFicial

«Enseñanza sobre uso ético de los datos geográficos»



Rosario Casanova

Es Ingeniera Agrimensora (Facultad de Ingeniería, Udelar, Uruguay) experta en las áreas de geomática, ordenamiento y políticas territoriales. Cuenta con títulos de Magister en Ordenamiento Territorial y Desarrollo Urbano (Facultad de Arquitectura, Uruguay) y Doctora en Agrimensura (Rep. Argentina). Desde el año 1994 se desempeña como docente del Instituto de Agrimensura, Facultad de Ingeniería. Ha sido Directora de dicho Instituto desde el año 2014 hasta marzo del 2020.

Desde el año 2017, es presidenta de la Red Académica para las Américas de Naciones Unidas para el Manejo de Datos Geospaciales (UN-GGIM). Actualmente, es la representante de Universidad de la República en el Núcleo Disciplinar de Geotecnologías y Ciencias de la Atmósfera.



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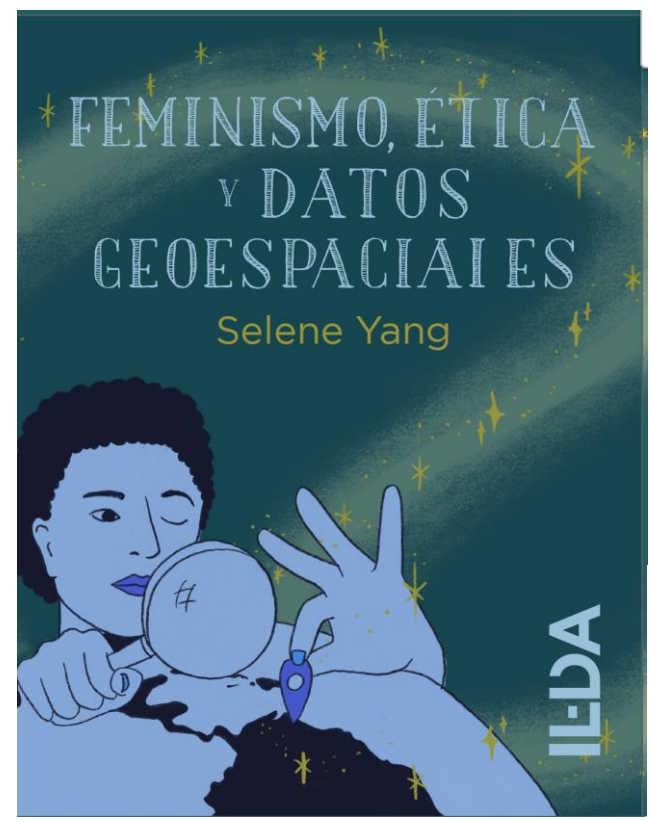


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Diffussion / Research

- Writing several articles/
interviews

The screenshot shows the ScienceDirect interface for the article 'Ethics in the use of geospatial information in the Americas' from the journal 'Technology in Society'. The page includes a navigation menu on the left with options like 'Outline', 'Highlights', 'Abstract', 'Keywords', 'Abbreviations', '1. Introduction', '2. Methodology: Towards a regional analysis', '3. Results: Ethics in the Americas region', '4. Conclusions', 'Author statement', 'Author contributions', 'Declaration of competing interest', 'References', and 'Show full outline'. The main content area displays the journal title 'Technology in Society', volume '69', and issue 'May 2022, 101964'. The authors listed are Paloma Merodio Gómez, Andrea Ramírez Santiago, Gabriela García Seco, Rosario Casanova, Denise MacKenzie, and Christopher Tucker. The article was received on 12 November 2021, revised on 5 March 2022, accepted on 7 March 2022, and available online on 12 March 2022.



Dentro del ámbito académico, cabe resaltar que las personas entrevistadas coinciden en la necesidad de expandir la discusión con respecto al uso, producción y reproducción ética de los datos geoespaciales dentro de las currículas actuales en los centros de educación, y que también el auge de iniciativas de mapeo ciudadano y social cada vez tiene menor acercamiento hacia la academia, por lo que se nota una tendencia de emancipación de la práctica frente a la institución disciplinar. También cabe rescatar dentro de este ámbito, que cada vez más, las instituciones también están generando esfuerzos para fomentar las prácticas de mapeo colaborativo, como los proyectos liderados por Naxhelli Ruiz, en el Instituto de Geografía de la UNAM, México; o también YouthMappers, la iniciativa inter-universitaria fundada por Patricia Solís, de la Universidad Estatal de Arizona, para la creación de capítulos de mapeo universitario.

No obstante, también vale la pena resaltar, que a raíz de la encuesta realizada por la Red Académica de la UN GGIM en América Latina, liderada por Rosario Casanova desde Uruguay, se puede encontrar, en resultados preliminares, que alrededor de un 70% de las currículas académicas prestan poca o nula atención a la discusión sobre datos geoespaciales y ética, por lo que uno de los objetivos de esta red es el fortalecimiento futuro de las mallas curriculares sobre este tema en la región.

The screenshot shows a web browser window with the URL 'ww3.rics.org/uk/en/journals/land-journal/Geospatial-ethics-using-location-data.html'. The article is from 'LAND JOURNAL' and is titled 'Why we must ensure ethical use of location data'. The author is Rosario Casanova, and the date is 26 January 2023. The article is categorized under 'Ethical practice' and 'Geomatics'. Below the text, there is a horizontal strip of various maps.

<https://ww3.rics.org/uk/en/journals/land-journal/Geospatial-ethics-using-location-data.html>



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Past survey

Surveys: ethical use of geospatial data (2021 – 2022)

Americas: national members and academia

Existence of
National
regulation

9 questions – 16 responses- national members

Existence of
Education

8 questions – 90 responses

Europe: academia



Existence of
Education

8 questions –
40 responses



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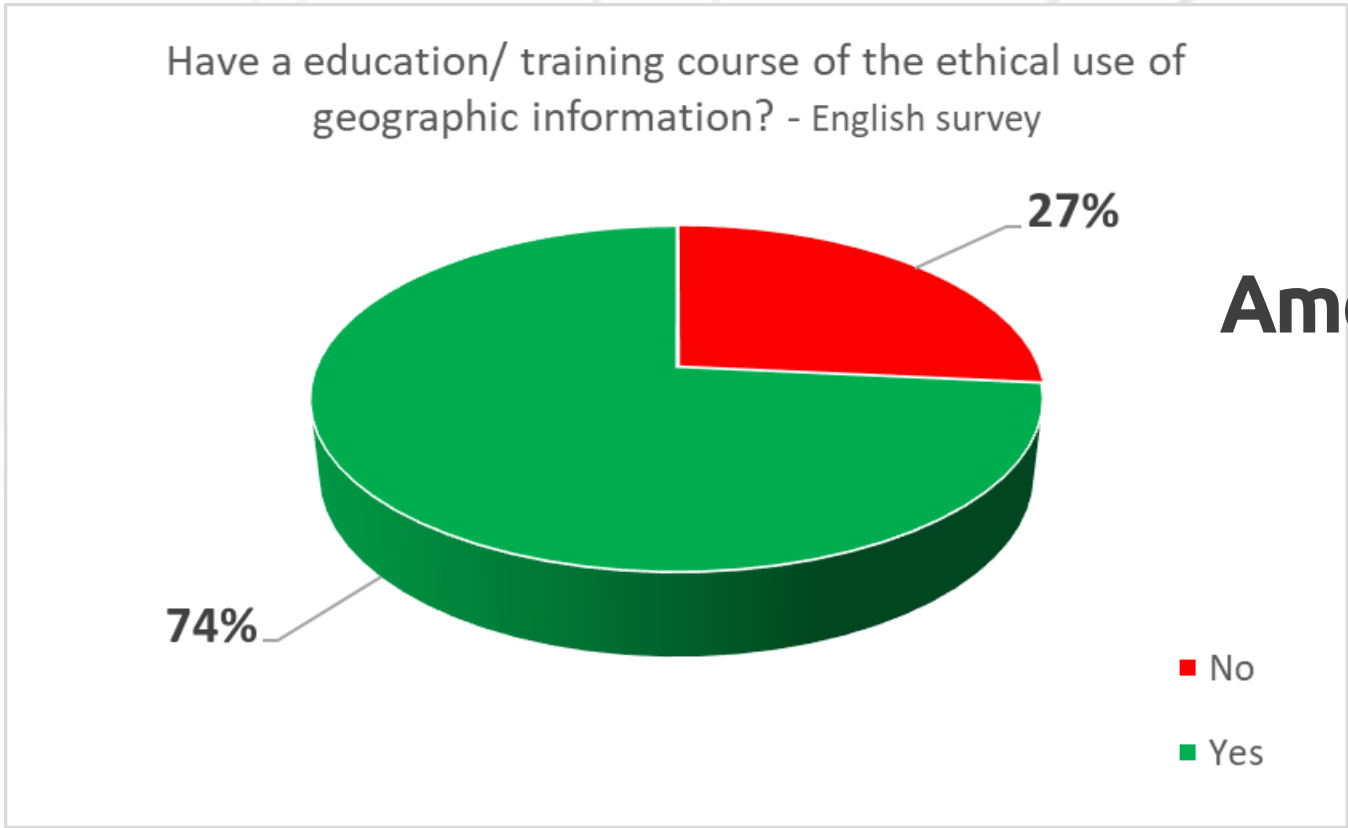
Survey to national members: Regarding the existence of regulation

- ❖ 66% of the countries state: no rules regulating the ethical use of data, although they may have some type of guide.
- ❖ 56 %: no federal or state regulations that penalize the inappropriate use of location data.
- ❖ 81 % government institutions **do not have standards** on the ethical use of geographic data.

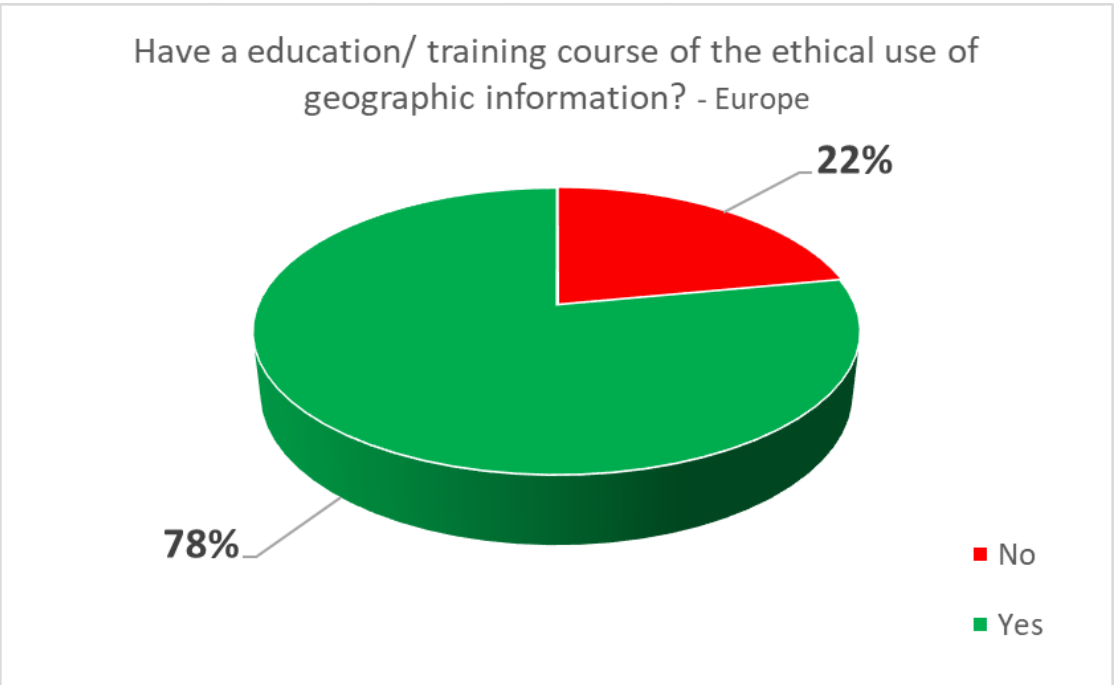
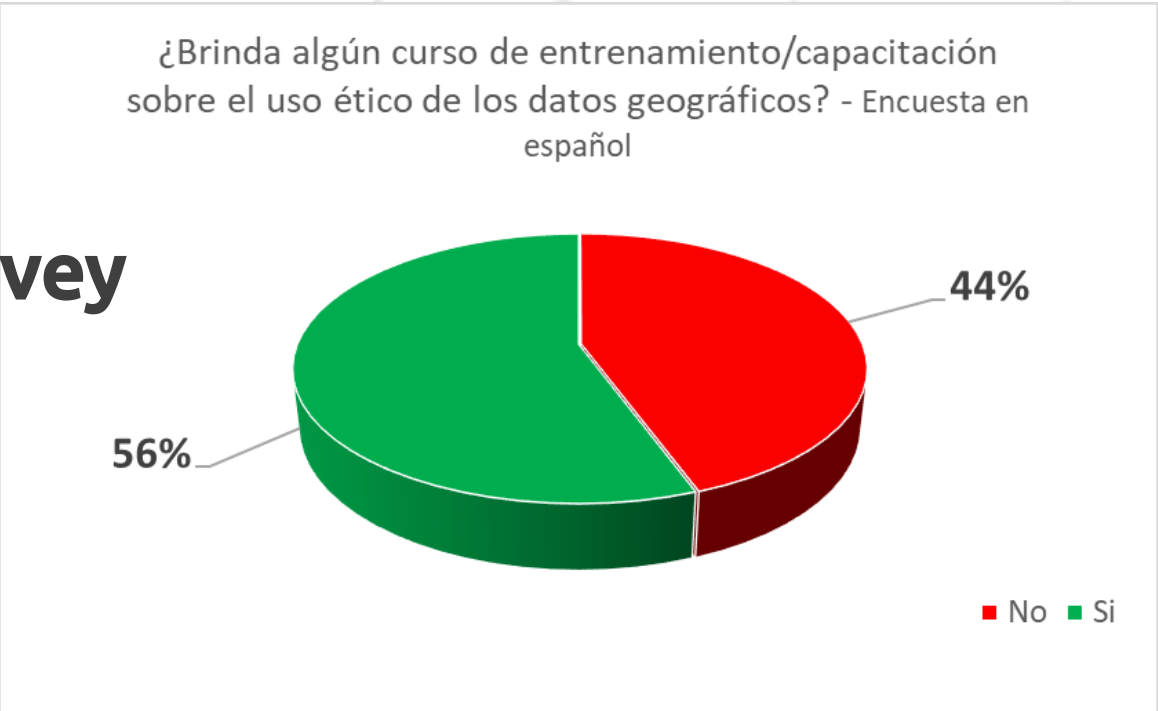
Survey regarding education in the ethical use of geospatial data

		
<h3>Encuesta sobre enseñanza en ética en el uso de datos geospaciales en su institución</h3> <p>Esta encuesta es un primer relevamiento acerca de la enseñanza del uso ético de los datos geográficos en instituciones académicas en América. Si deseas unirse a nuestra Red puedes hacerlo ingresando a: http://unggimacademicnetworkamericas.org/</p> <p><i>* Required</i></p>	<h3>Survey on teaching ethics when working with geospatial data in your institution</h3> <p>This survey is a first approach in teaching the ethical use of geographic data in academic institutions in the Americas. If you want to be a member of our Network visit: https://www.unggim-ana.org/</p> <p><i>*Obligatorio</i></p>	
<p>Nombre de la Institución académica a la que pertenece:</p> <p>Your answer _____</p>	<p>Name of your academic institution:</p> <p>Tu respuesta _____</p>	
<p>Nombre y mail de persona de contacto:</p> <p>Your answer _____</p>	<p>Name and email of the contact person:</p> <p>Tu respuesta _____</p>	

Survey responses



America's Survey

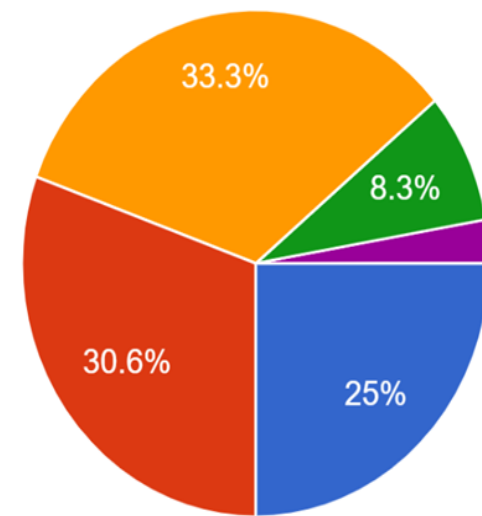


Europe's Survey

Survey responses

If the previous question was affirmative, which type of training do you provide?

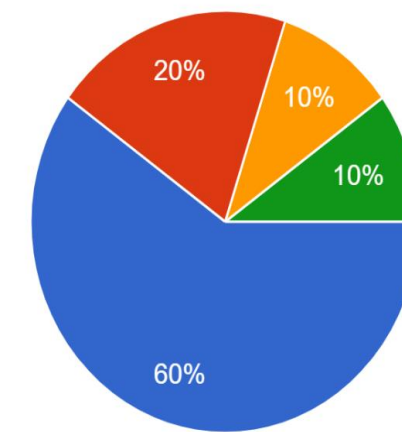
36 responses



- I include the topic in brief general comments but do not allocate a specific time or embed in another topic or less...
- I include the topic as an activity, lesson or discussion embedded within another topic or lesson in the course.
- I allocate specific time and space in the syllabus to specifically address Ethics.
- I teach an entire course on ethics.
- Ethics is an activity, lesson or discussion embedded within another topic or less...

Si la respuesta anterior es afirmativa, qué tipo de formación brinda?

20 responses

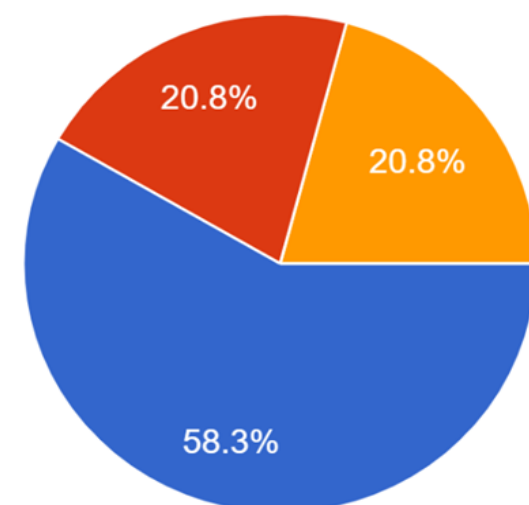


- Incl con tier
- Incl una den
- Asi q de e esp
- Dict

America's Survey

If the previous question was affirmative, which type of training do you provide?

24 responses



- I include the topic in brief general comments but do not allocate a specific time or embed in another topic or less...
- I include the topic as an activity, lesson or discussion embedded within another topic or lesson in the course.
- I allocate specific time and space in the syllabus to specifically address Ethics.
- I teach an entire course on ethics.
- Other type

Europe's Survey



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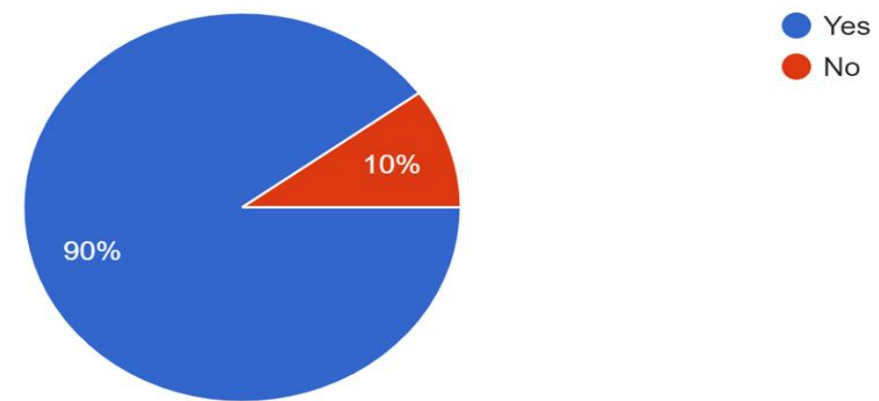


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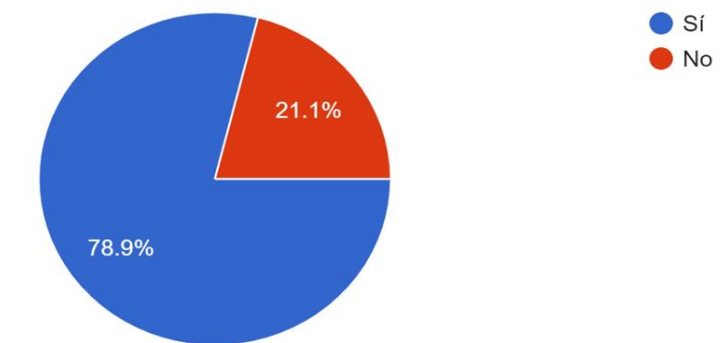
Including in the future...

America's Survey

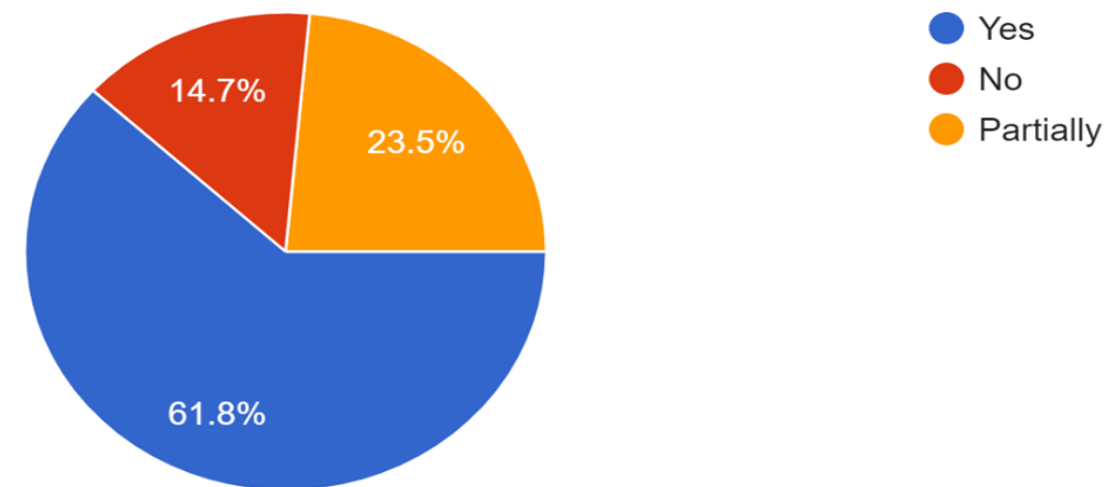
Are you considering including a discussion of ethics in your course in the future?
50 responses



Está considerando incluir la discusión de la ética en cursos futuros?
38 responses



Are you considering including a discussion of ethics in your course in the future?
34 responses



Europe's Survey



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Some comments

- Strong need for ethics as a topic in geospatial education (including principles, procedures, consequences, standardization)
- General awareness for the topic in academic curricula
- Already an important topic (even more in Americas)
- Becoming even more important

**THE ROLE OF ACADEMIA IS
THE GATEWAY OF
GEO-ETHICS**



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Actual project

Team

ARGENTINA

BRASIL

CHILE

MEXICO

PANAMA

USA-soon

URUGUAY

EuroSDR-soon



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Encuesta sobre enseñanza de la "Ética en el uso de datos geoespaciales" en su institución

Esta encuesta es parte de un proyecto de investigación de la enseñanza del uso ético de los datos geográficos en instituciones en América. En el caso de que quiera reportar más de un curso, pedimos completar nuevamente el formulario por cada uno.

ana.unggim@gmail.com [Switch account](#)

* Indicates required question

Email *

Your email

Provincia/Estado/Departamento:

Your answer

Página web de la institución:

Your answer

Tareas que usted realiza en dicha institución: *

- Dictado de cursos
- Investigación
- Coordinación/ Gestión
- Other: _____

Dicta algún curso (s) vinculado al uso de la información geográfica? *

- Si
- No

Curso 1: La formación es a nivel de: *

- Tecnicatura
- Grado universitario
- Curso de extensión o especialización
- Posgrado
- Maestría
- Doctorado
- Otros

Curso 1: En caso de respuesta afirmativa, en qué áreas temáticas?

- Cartografía
- Captura de Datos
- Geografía
- Percepción Remota
- Geodesia
- Introducción a los SIG
- Cambio Climático
- Transporte
- Análisis Espacial
- Catastro
- Planificación urbana / Ordenamiento territorial
- Other: _____

¿Puede compartimos el enlace al temario del curso 1?

Your answer

<https://forms.gle/cgM74vXJwHdaCFBPA>



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¿Incluye alguna capacitación referida al uso ético de los datos geográficos? *

- Sí
- No

Curso 1: Porcentaje del curso destinado al abordaje de estos temas

Porcentaje del curso destinado a la enseñanza de temas sobre ética en el uso de los datos geográficos?

- Destina menos de un 10% del curso a abordar estos temas
- Destina más de un 10 % pero menos de un 25%
- Destina más de un 25% pero menos de un 50%
- Destina más de un 50% pero menos de un 75%
- Destina más de un 75%

Curso 1: Considera incluir o seguir incluyendo la enseñanza sobre el uso ético de los datos geográficos?

¿Ha considerado incluir la discusión de la ética en el uso de los datos geográficos en este curso en el futuro? o ¿Ha considerado ampliar el tiempo y contenido destinado al actual abordaje de esta temática en su curso? *

- Sí
- No

¿Cuáles son dichas razones?

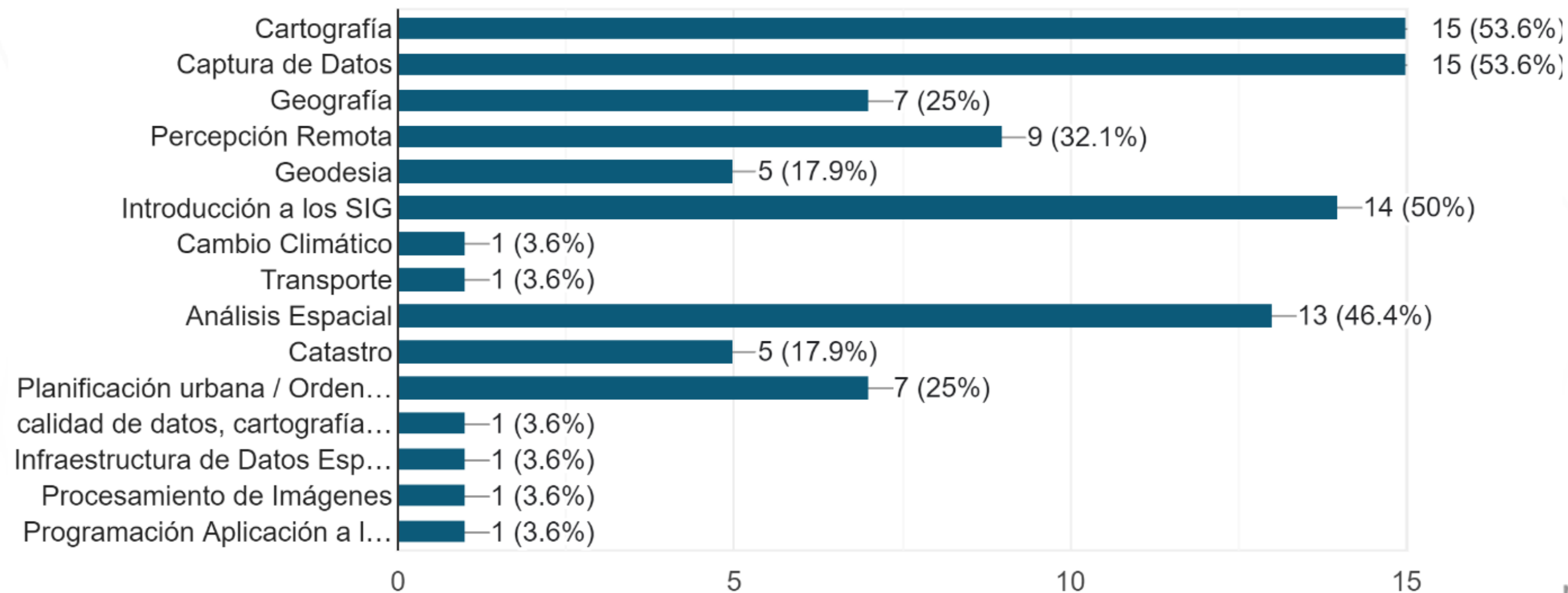
- El contenido no se encuentra en la currícula
- No es un tema de interés para alumnos/docentes/profesionales
- No tengo material para utilizar en su enseñanza
- El equipo docente no posee formación en el tema
- No es de interés para el país
- Other: _____



Preliminar responses

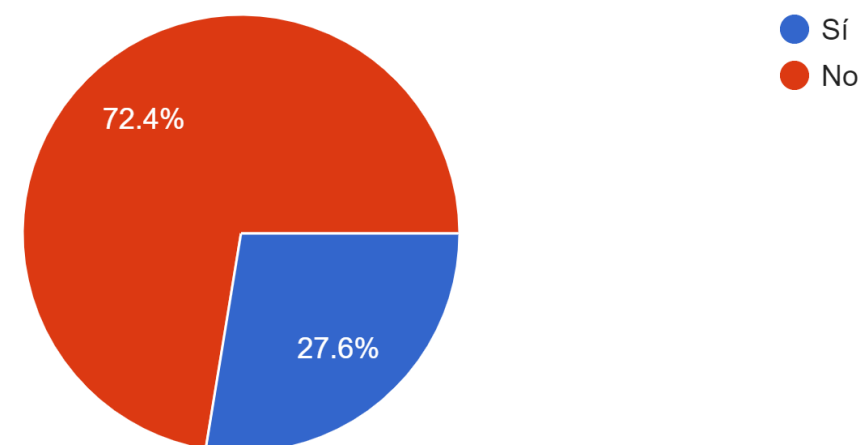
Curso 1: En caso de respuesta afirmativa, en qué áreas temáticas?

28 responses



¿Incluye alguna capacitación referida al uso ético de los datos geográficos?

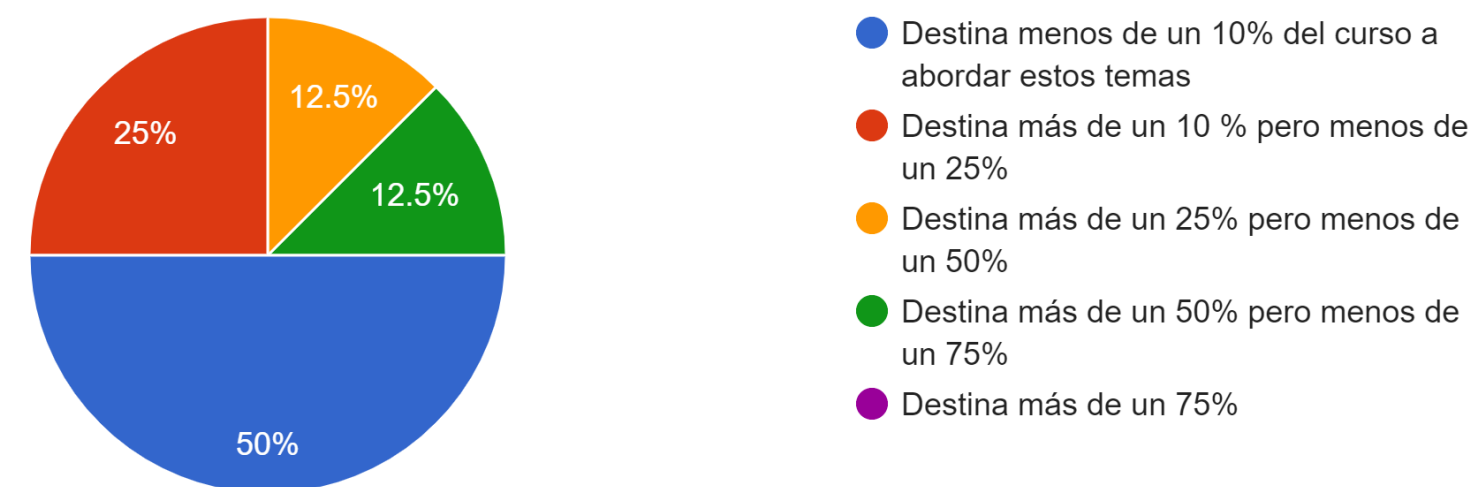
29 responses



If yes...

Porcentaje del curso destinado a la enseñanza de temas sobre ética en el uso de los datos geográficos?

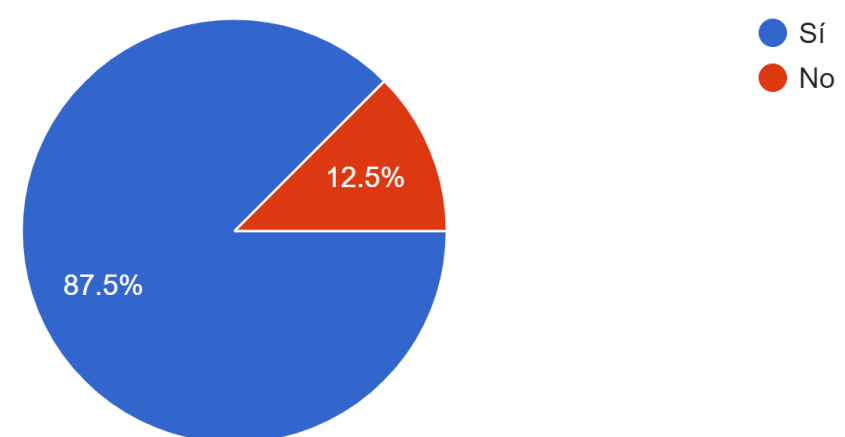
8 responses



If no...

¿Ha considerando incluir la discusión de la ética en el uso de los datos geográficos en este curso en el futuro? o ¿Ha considerando ampliar el tiempo...o al actual abordaje de esta temática en su curso?

8 responses



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Future: Keep working...

- Promotion to enhance the awareness of the topic
- Build capacity on the topic
 - Webinars: Training educators
 - Articles
 - Sharing education/training materials
 - Provide strong examples illustrating the need for the topic
- Learning the relevant skills
- Generate critical attitudes towards the topic
- Trust as the foundation for Geo-ethics



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**Need to keep moving
And working together is the clue to make
this thematic shows its relevance**

THANK YOU



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