





IaH Capacity Building Webinar with a focus on VIRTUAL MOBILITY

(ONLINE WEBINAR BY UNIVERSITY OF ZARAGOZA, SPAIN)

1st APRIL 2022

Virtual mobility on regional planning, cooperation and aid to development

Prof. Dr. Rafael de Miguel González

Previously

2015 - 2019:

Several development cooperation projects for training on Regional Planning

Key points:

- √ fostering governance processes
- Collaboration citizen empowerment
- impulse to women
- √ training of technicians and cooperators



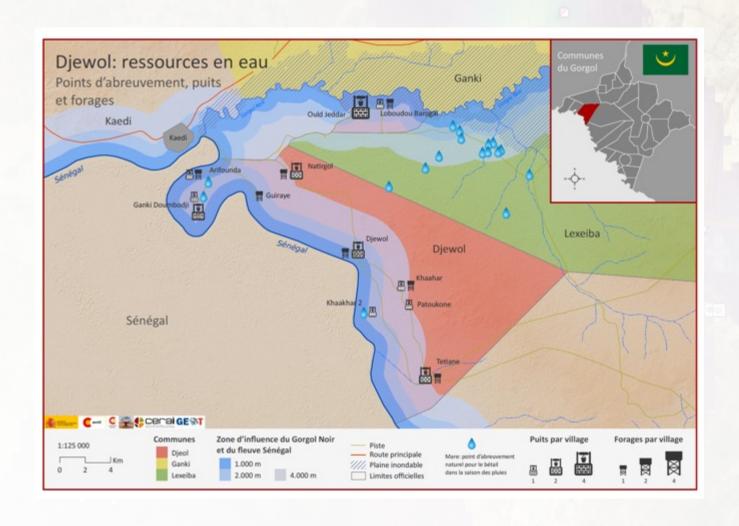








2015 - Mauritania - Gorgol



2017 - Senegal - Kaolack



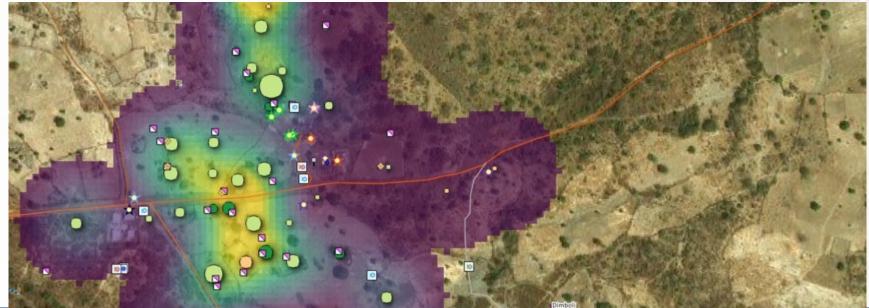




2018 - Senegal - Kédougou







2019 - Mauritania - Trarza



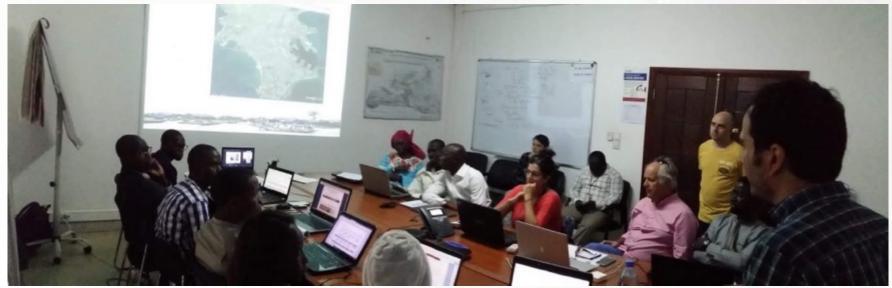




2019 - Senegal - Dakar (hybrid trainning - diferents locations)







2020 - pandemic of COVID 19 New paradigm



2020 - pandemic of COVID 19

- New methodologies
- New tools
- Same approach

"The interest is to offer tools and ways of working to be able to respond with adequate planning to the local population, and to the development of administrations and the cooperation of NGOs. The aim is to train university students, researchers, local technicians in free format tools for data analysis, validation of results, management of thematic cartographies and preparation of reports.

As in the previous projects, governance processes, collaboration, citizen empowerment, the promotion of women, as well as the training of technicians and aid workers, will be promoted. All aspects related to access to food, water and sanitation services will be selected as a work topic with the aim of reducing poverty and inequality, and improving social and health conditions"

Cooperación Universitaria al Desarrollo

Formación on-line con sistemas de información geográfica y cartografía temática para la gestión territorial y el cumplimiento de los Objetivos de Desarrollo Sostenible





Goals:

- Offer GIS and thematic mapping tools to promote the development and innovative knowledge of local development skills for urban and regional planning technicians, as well as NGOs participating in projects of local development (SDG 4, 5, 8, 9, 17).
- **Propose solutions** for the problems of health, accessibility, water supply, energy, sustainability, protection of ecosystems, etc. (SDG 3, 6, 7, 12, 13, 14, 15).
- Promote virtual mobility pedagogies to carry out local development projects and territorial management with geospatial tools that enhance geo/co-governance, solidarity, equality and social justice (SDG 1, 2, 10, 11).



- The course was conducted online through the UNIZAR-Google Meet platform and had 182 participants from 17 countries (Argentina, Bolivia, Brazil, Cape Verde, Colombia, Chile, Costa Rica, Cuba, El Salvador, Spain, Morocco, Mali, Mauritania, Nicaragua, Senegal, Sahara, Venezuela)
- Nearly half of those enrolled (46%) were women.
- The participants were university students, technicians from NGOs dedicated to cooperation, university professors or researchers (Universidad Libre de Colombia, Universidad Nacional de Cuyo, Universidad Nacional Autónoma de Nicaragua, Universidad Centroamericana José Simeón Cañas).



- 2020 Online course on tools and applications with Geographic Information Systems and thematic cartography for governance and territorial management within the framework of the Sustainable Development Goals
- The training was delivered in **16 two-hour sessions** including presentations of real cases, the potential of GIS and knowledge on thematic cartography.





- The agenda focused on GIS theory, data management and creation tools, vector or raster geo-processes, field data collection and cartographic, online or 3D representation.
- The course worked with spatial data corresponding to the places of delivery (Colombia, Senegal, Nicaragia, El Salvador)



- **2020** Online course on tools and applications with Geographic Information Systems and thematic cartography for governance and territorial management within the framework of the Sustainable Development Goals
- Classes were followed in online stream by up to 100 people per session.
- More than 130 people have obtained a virtual mobility certificate of attendance to the course (30h) or of active participation in the course by submitting tasks (60h)







The students were provided with almost seven hours of videos that explain step by step all the tools mentioned in the course.

It is important to note that the videos are available on YouTube and on the website of UNIZAR Internationalization Office and Cooperation in five linguistic modalities:

https://internacional.unizar.es/

https://youtube.com/playlist?list=PLmZRXHhlSxLywA75y1Zsj7EZIBS6CpPP4



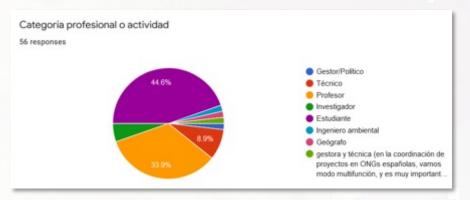
Vicerrectorado de Internacionalización y Cooperación

Universidad Zaragoza

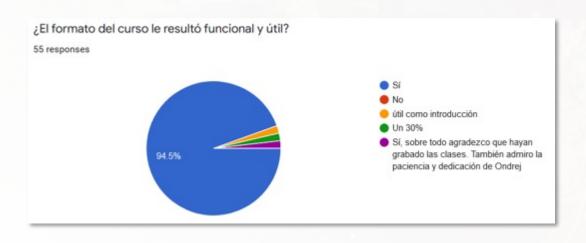
Each of these modalities presents the software visualized in its language and has explanations narrated by **native speakers**.

GEOT Grupo de Estudios en

An evaluation survey has been launched for users

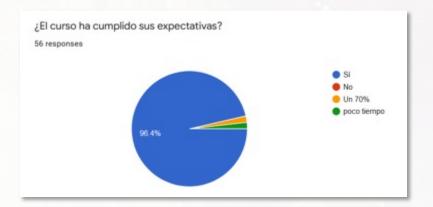


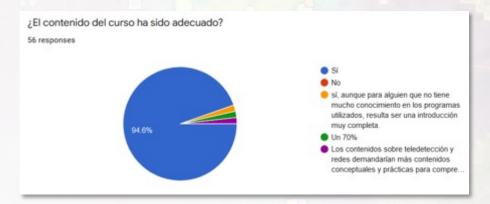


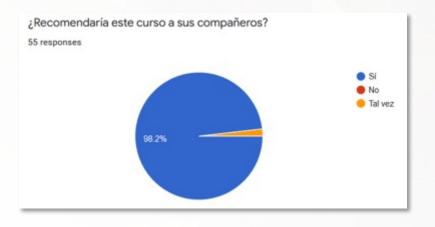


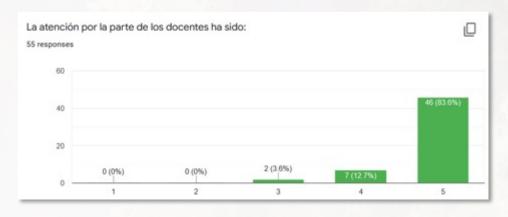
We can highlight

- for 96% of the participants the course met their expectations and
- 98% would recommend this training to their colleagues









2021 – Local Water Information System for drought risk reduction and water governance with a basin approach, in Suchitoto, El Salvador

Cooperation project with the NGO Cerai and dDialoga for the analysis of water resources in the Salvadoran municipality of Suchitoto (the counterpart - Cordes Association)





Online training of local technicians in data collection in the field – 10 hours

Online training in GIS for the exploitation and use of field data - 15 hours



2021 – Local Water Information System for drought risk reduction and water governance with a basin approach, in Suchitoto, El Salvador







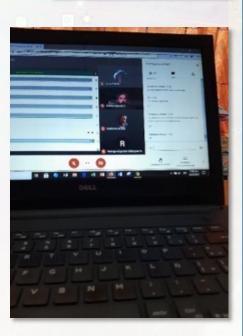


2021 – Sustainable management project of the water cycle in rural communities of El Salvador through the use of photovoltaic energy

- The previous project has been so successful that the adjacent municipality chose to take advantage of the methodology for its cooperation project with the NGO Tierra Sin Males focused on analysis of the territory from the point of view of the distribution of drinking water in the Salvadoran municipality of Jutiapa
- Online training of local technicians in data collection in the field
 5 hours
- Online training in GIS for the exploitation and use of field data 10 hours



























DEVELOPMENT OF A SEISMIC EARLY WARNING SYSTEM EARTHQUAKE RISKS AND HAZARDS IN COLUMBIA 2022 – HYBRID MOBILITY





















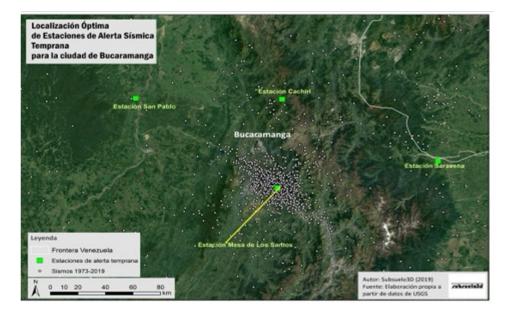




GOALS

- Provide Bucaramanga and other Columbian cities of Seismic Early warning System to prevent earthquakes risks and hazards.
- Training to students as future technicians and urban city managers, but also to current City Council officers.

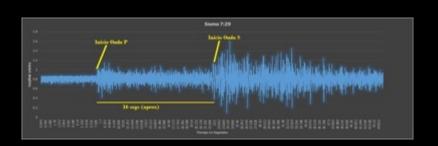








INTERNATIONAL MOBILITY UNIZAR-ULCO FOR SETTING UP TECHNICAL SENSORS





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Sesiones	Especialidad	Tipo	№ de asistentes (Aprox)
U. Distrital 1	CCSS y futuros docentes	Virtual	21
U. Distrital 2	CCSS y futuros docentes	Virtual	20
U. Distrital 3	Egresados, docentes y geógrafos	Virtual	12
U. Externado	Geógrafos y estudiantes de magisterio	Virtual	15
Charla profesores rurales	Docentes rurales	Virtual	15
Unilibre Bogotá	Diferentes grados de ingeniería	Presencial con streaming	30 presenciales + 205 online
Unilibre Socorro	Diferentes grados ingeniería	Presencial con streaming	20 presenciales + 152 online
Conferencia Colegios Santander	Docentes y alumnos de secundaria + Otras instituciones públicas municipales	Virtual	100
Colegio Integración Moderna	Estudiantes de secundaria	Presencial con streaming	80 presencial + 52 online
Colegio Unilibre 1	Estudiantes de secundaria	Virtual	25
Colegio Unilibre 2	Estudiantes de secundaria	Virtual	23
Seminario Unilibre	Diferentes grados de ingeniería	Virtual	85
TOTAL: 12 charlas	•	•	855 personas (aprox.)

VIRTUAL MOBILITY + PHYSICAL MOBILITY = HYBRID MOBILITY









Thanks so much









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