

UNIVERSITY AND CITY COLLABORATION ON MODERN GIS PRACTICE



Dr. Michael Gould

Esri Inc.

University Jaume I (Spain)

GISTAM 2025

11th International Conference on Geographical Information
Systems Theory, Applications and Management

Porto, Portugal
1 - 3 April, 2025



GIS

Applied in Many Fields

Financial Services

Transportation

Human Health

Urbanization
& Development

Nature Conservation

Disasters

Supply Chain

Water Resources

Natural Resources

Retail

Energy

Agriculture

Social Conflicts

Equity

Environment

National Security

Science & Technology

Insurance

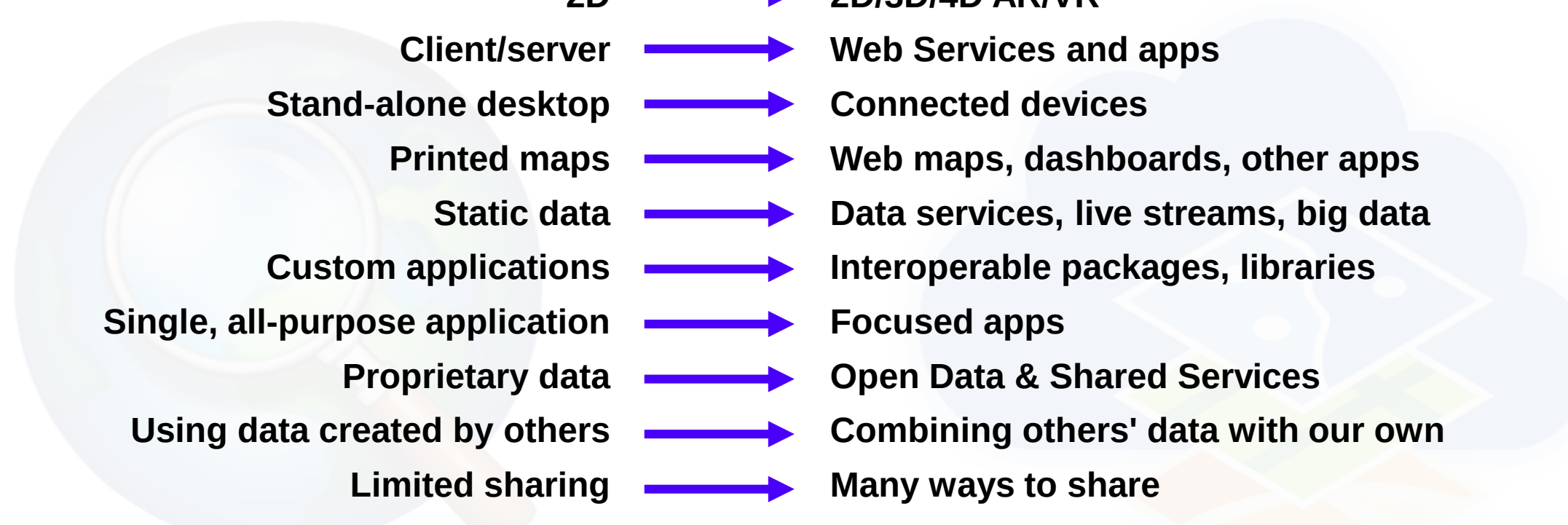
Infrastructure

Economic Development

Sustainability

Education





Software products	→	Platforms and APIs
2D	→	2D/3D/4D AR/VR
Client/server	→	Web Services and apps
Stand-alone desktop	→	Connected devices
Printed maps	→	Web maps, dashboards, other apps
Static data	→	Data services, live streams, big data
Custom applications	→	Interoperable packages, libraries
Single, all-purpose application	→	Focused apps
Proprietary data	→	Open Data & Shared Services
Using data created by others	→	Combining others' data with our own
Limited sharing	→	Many ways to share
Niche technology	→	Ties to larger IT community: GitHub etc.
Some attention to societal concerns	→	Much attention to societal concerns
Mapping department	→	Integrated across the business

...GIS is evolving

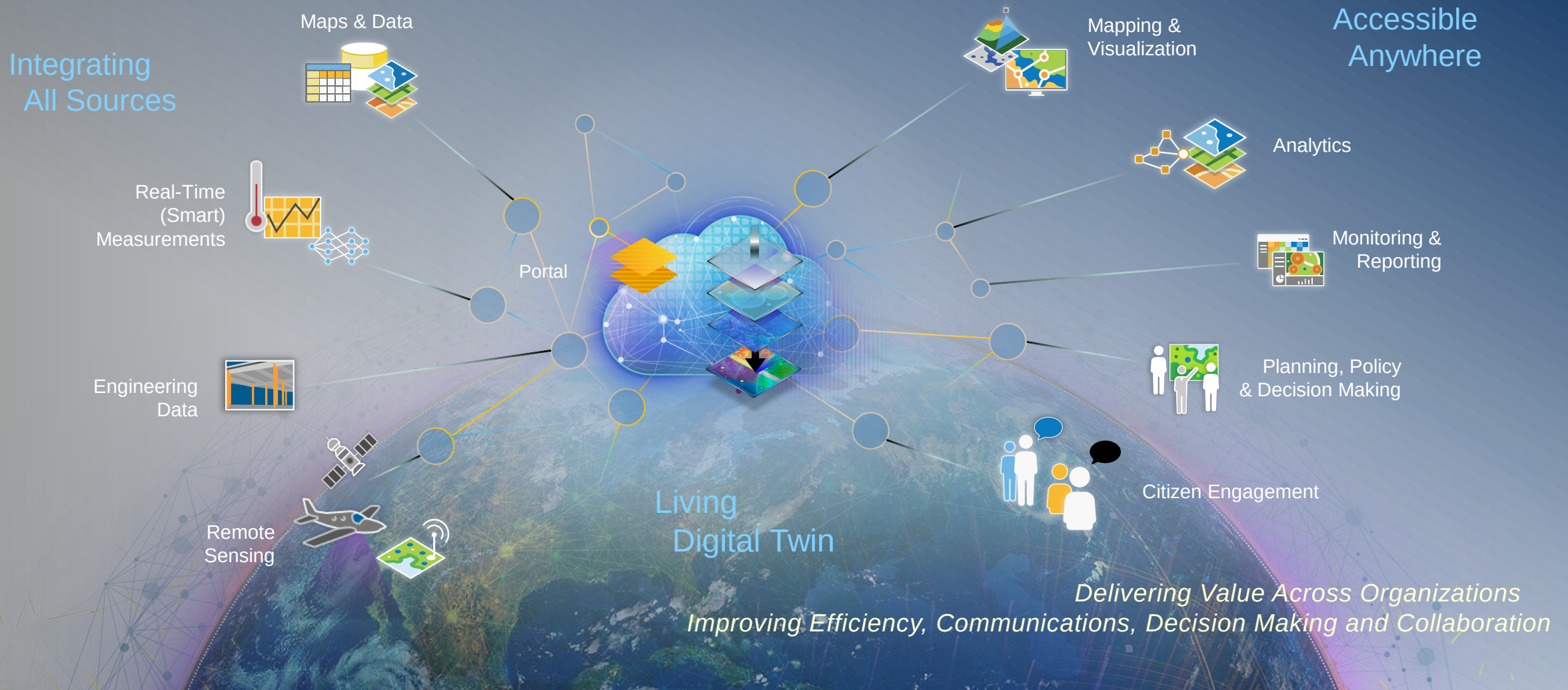
MODERN GIS

Beyond Desktop GIS workflows



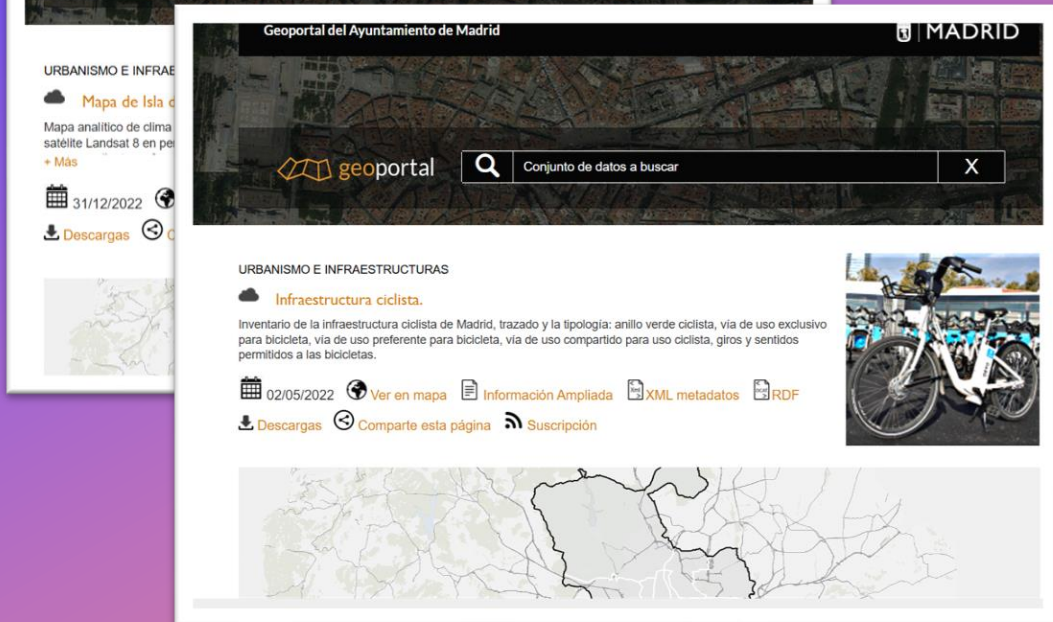
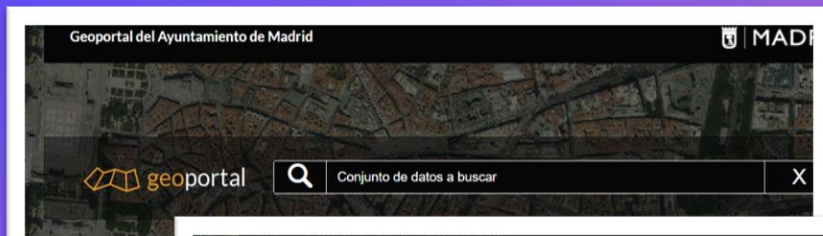
What Is a GIS?

A System for Managing, Sharing and Applying Geographic Information

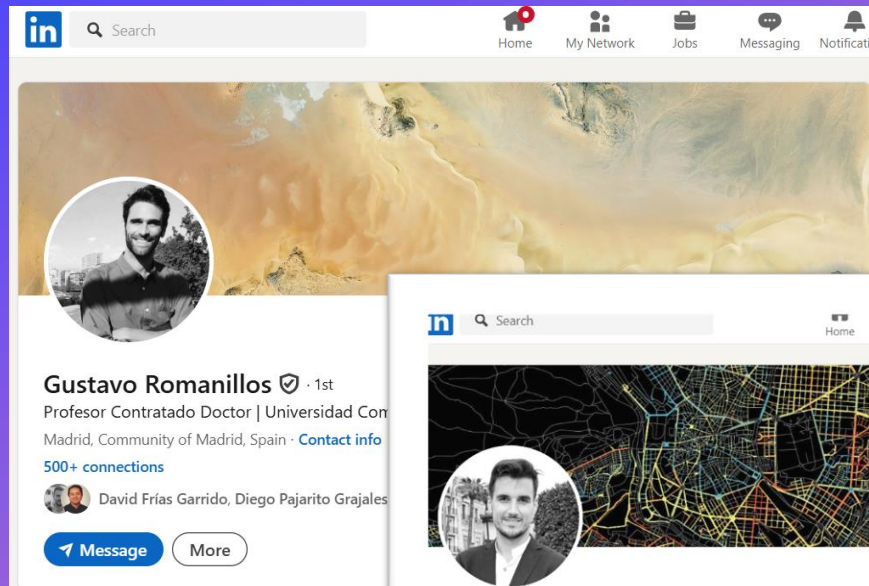


THOUSANDS OF CITIES

Planning, Services, Resilience,...

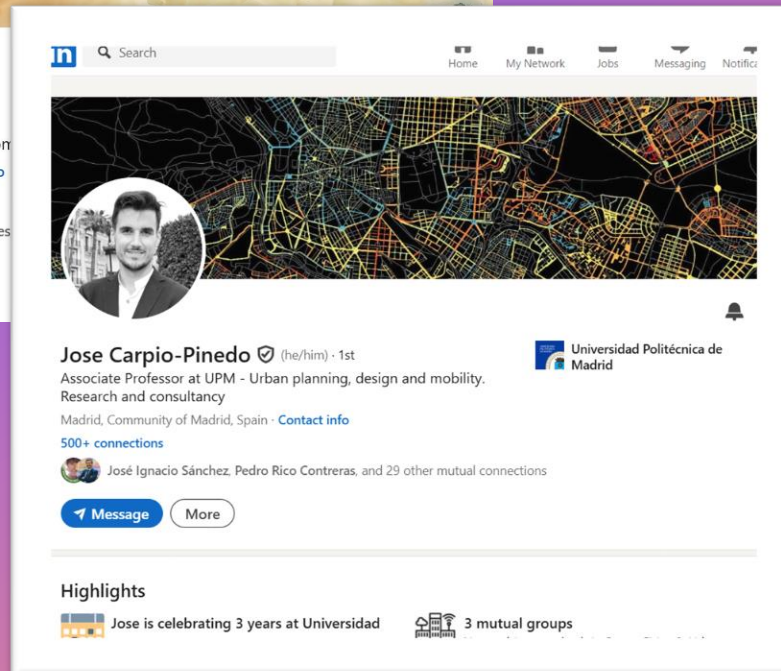


THOUSANDS OF UNIVERSITIES



LinkedIn profile of Gustavo Romanillos, a 1st-degree connection. He is a Profesor Contratado Doctor at Universidad Complutense de Madrid, Community of Madrid, Spain. His profile features a circular profile picture and a background image of a desert landscape. He has 500+ connections, including David Frías Garrido and Diego Pajarito Grajales. The interface shows navigation icons for Home, My Network, Jobs, Messaging, and Notifications.

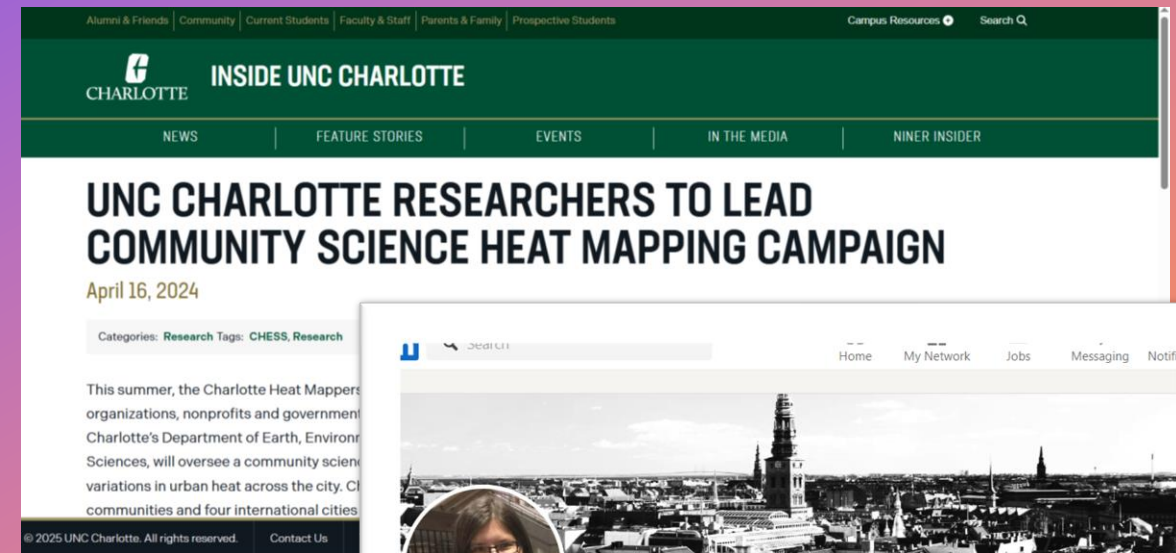
Gustavo Romanillos · 1st
Profesor Contratado Doctor | Universidad Complutense de Madrid, Community of Madrid, Spain · [Contact info](#)
500+ connections
David Frías Garrido, Diego Pajarito Grajales
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LinkedIn profile of Jose Carpio-Pinedo, a 1st-degree connection. He is an Associate Professor at UPM - Urban planning, design and mobility. Research and consultancy at Universidad Politécnica de Madrid, Community of Madrid, Spain. His profile features a circular profile picture and a background image of a city map. He has 500+ connections, including José Ignacio Sánchez, Pedro Rico Contreras, and 29 other mutual connections. The interface shows navigation icons for Home, My Network, Jobs, Messaging, and Notifications.

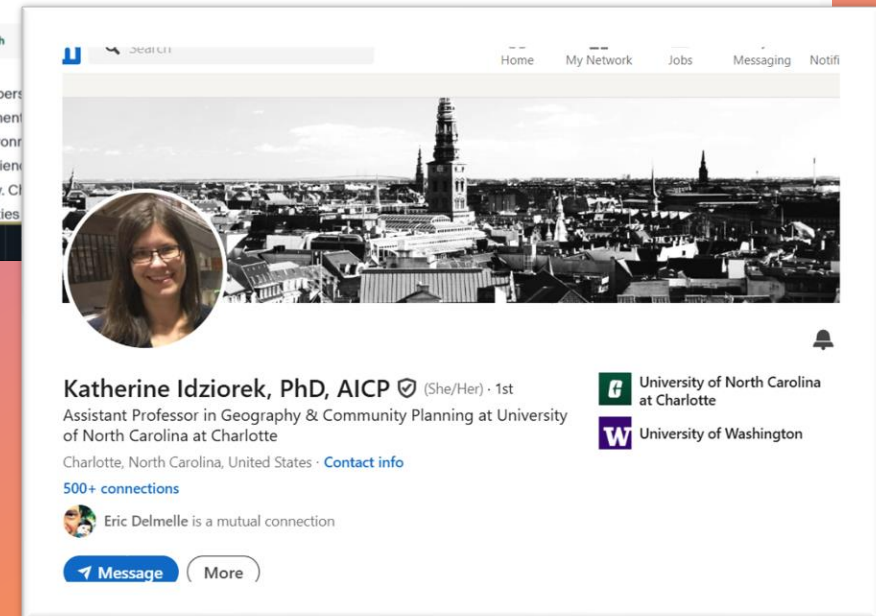
Jose Carpio-Pinedo (he/him) · 1st
Associate Professor at UPM - Urban planning, design and mobility. Research and consultancy
Madrid, Community of Madrid, Spain · [Contact info](#)
500+ connections
José Ignacio Sánchez, Pedro Rico Contreras, and 29 other mutual connections
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Highlights
Jose is celebrating 3 years at Universidad Politécnica de Madrid
3 mutual groups



News article from UNC Charlotte titled "UNC CHARLOTTE RESEARCHERS TO LEAD COMMUNITY SCIENCE HEAT MAPPING CAMPAIGN" dated April 16, 2024. The article discusses a community science heat mapping campaign led by UNC Charlotte researchers. The interface shows navigation icons for Alumni & Friends, Community, Current Students, Faculty & Staff, Parents & Family, Prospective Students, Campus Resources, and Search.

UNC CHARLOTTE RESEARCHERS TO LEAD COMMUNITY SCIENCE HEAT MAPPING CAMPAIGN
April 16, 2024
Categories: Research Tags: CHESS, Research
This summer, the Charlotte Heat Mappers, a coalition of organizations, nonprofits and government agencies, will oversee a community science campaign to map variations in urban heat across the city. Charlotte's Department of Earth, Environment and Sciences, will oversee a community science campaign to map variations in urban heat across the city. Charlotte's Department of Earth, Environment and Sciences, will oversee a community science campaign to map variations in urban heat across the city. Charlotte's Department of Earth, Environment and Sciences, will oversee a community science campaign to map variations in urban heat across the city.
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LinkedIn profile of Katherine Idziorek, PhD, AICP, a 1st-degree connection. She is an Assistant Professor in Geography & Community Planning at University of North Carolina at Charlotte. Her profile features a circular profile picture and a background image of a city skyline. She has 500+ connections, including Eric Delmelle, who is a mutual connection. The interface shows navigation icons for Home, My Network, Jobs, Messaging, and Notifications.

Katherine Idziorek, PhD, AICP (She/Her) · 1st
Assistant Professor in Geography & Community Planning at University of North Carolina at Charlotte
Charlotte, North Carolina, United States · [Contact info](#)
500+ connections
Eric Delmelle is a mutual connection
[Message](#) [More](#)

University of North Carolina at Charlotte
University of Washington

UAE CASES

University groups + “Industry”



جامعة الإمارات العربية المتحدة
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Required Courses (18 hours)

RGIS601

Principles of Remote Sensing

RGIS602

Fundamentals of GIS

RGIS603

Digital Image Processing in RS

RGIS604

Spatial Analysis Using GIS

RGIS605

Local & Web Based Services GIS

RGIS606

Database Management Systems

RGIS607

Seminar on Management Issues in RS&GIS

STAT661

Geo-Statistics



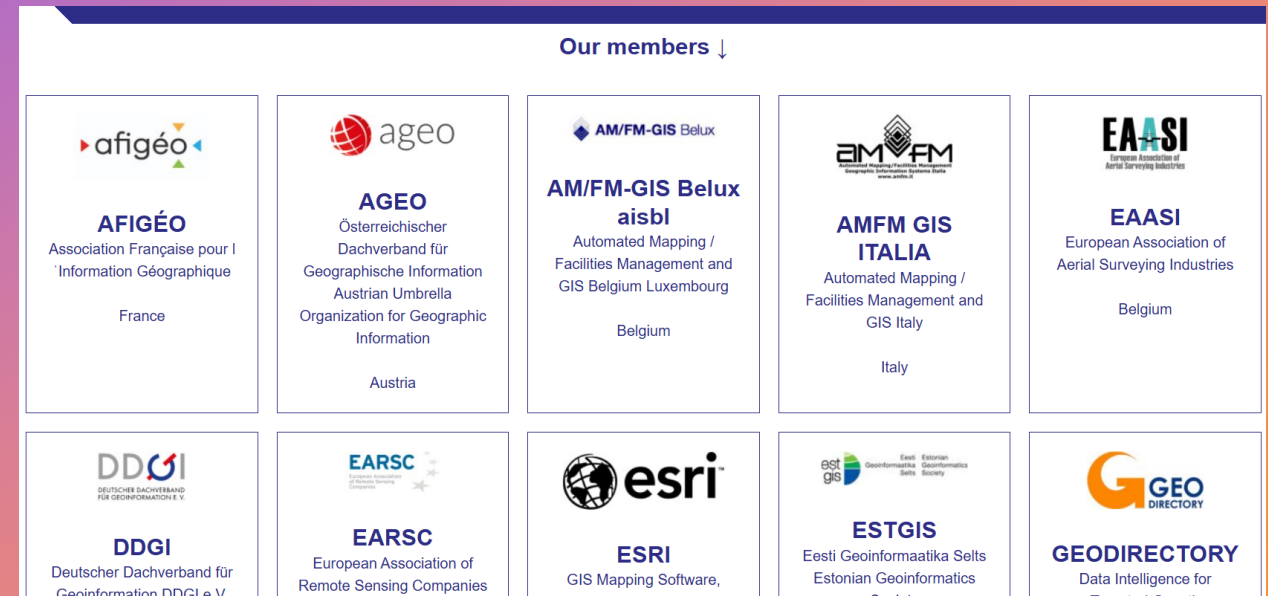
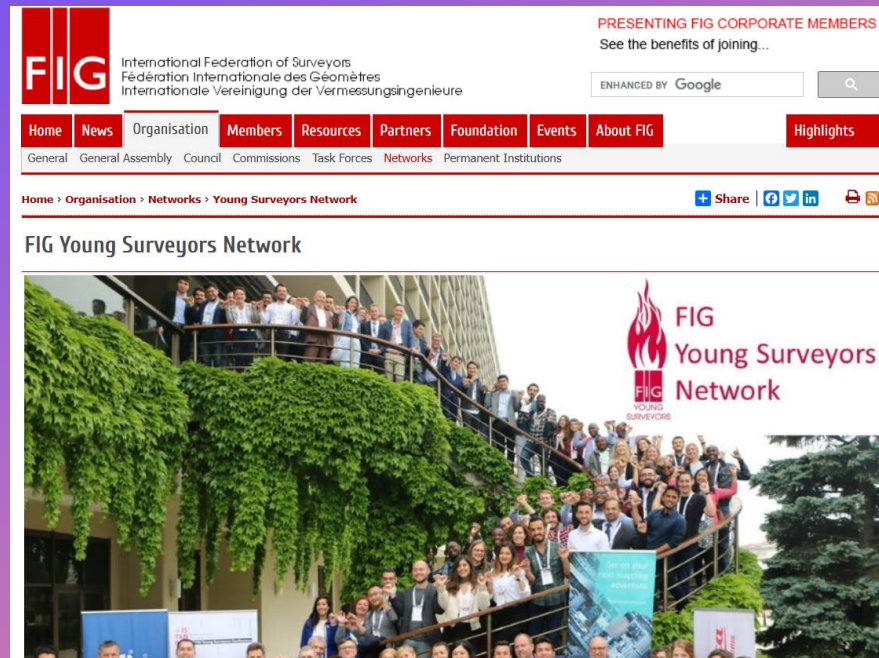
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BETTER COLLABORATION VIA NETWORKS

Including EUROGI Members



SPECIFIC ACTIONS

- Smart Campus > Smart City Projects
- City Geodata used in classroom/research
- City Requirements/Workflows shared
- Common Hackathons/Events
- Analysis-Ready Data (Hubs)
- SDI Collaboration! (who teaches that?)

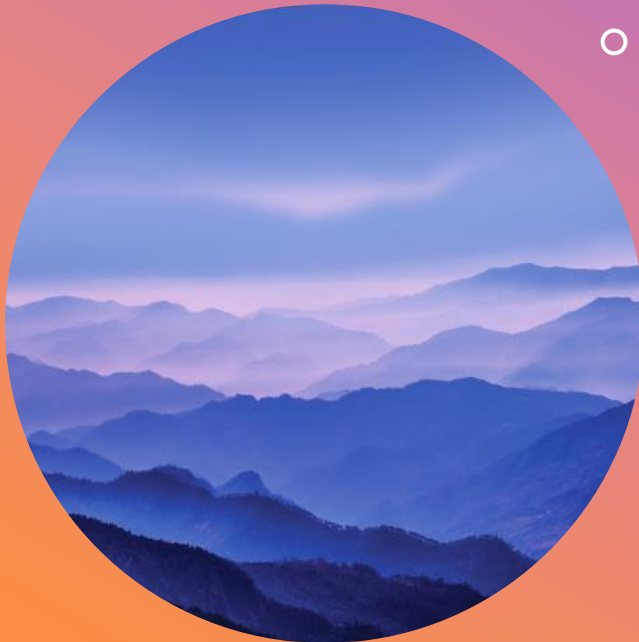


THANK YOU

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