



NORTHERN
IRELAND

GI and Spatial for the Future – Here and Now

AGI Northern Ireland Conference 28th June 2023



Belfast
City Council

Time	Title	Speaker
09:00	Conference Registration and Networking	
09:45	Welcome	Rico Santiago, AGI NI Chair
Spatial Technologies* (Session Facilitator - Rico Santiago, AGI NI)		
09:50	Mobile Mapping: A solution for industry to measure, map and manage infrastructure remotely.	Mark Bowers, Korec
10:10	The use of high definition orthophotography, LiDAR and near infra-red imagery to identify new archaeological sites around Northern Ireland's coastline	Colin Dunlop, DAERA
10:30	Producing Remote Sensing Outputs using ArcGIS	Eamonn Doyle, ESRI
10:50	Geospatial Survey Service	Donna Hardy, OSNI
11:05	Platinum Sponsor Talk	Ciaran Kirk, IMGS
11:10	Morning Break	
Land and Property* (Session Facilitator - Laurence Donaghy, Translink)		
11:30	Cork County Council's Property Transaction Register	Ciaran Kirk, IMGS
11:50	Transforming Land Registry in the Rep. of Ireland – Mapping functions and processes	Maria Forkin, Tailte Eireann
12:10	System Integration at LPS using referenced geospatial data	John O'Toole, 1Spatial
12:20	20 minute neighbourhoods	Andy Williams, LandClan
12:35	Platinum Sponsor Talk	Aaron Taggart and Solenn Reeves-Long, ESRI
12:40	Lunch	
GI in Health* (Session Facilitator - Lorraine Barry, DFI)		
13:45	Platinum Sponsor Talk	Finn Briody, Korec
13:50	SARS-CoV-2 introductions to the island of Ireland	Evan Troendle, Queen's University Belfast
14:10	Using computer vision techniques to identify and assess the quality of green space from satellite imagery	Dr Niall McLaughlin and Dr Neil Anderson, Queen's University Belfast
14:30	Investigating the impact of near-term climate change on malaria incidence patterns at health facility level in Zambia (2009-2015)	Sarah Duff, Ulster University
14:40	Green map layer for NI: An update	Emma Taylor, ORNI
14:55	Gold Sponsor Talks	UU, Mallon Tech, 1Spatial, LandClan
15:05	Afternoon Break	
GI and Statistics* (Session Facilitator - Gareth Young, LPS)		
15:25	NI's New Census Geographies	Brian Foley, NISRA
15:45	Current activities to develop capacity in geospatial and statistical data integration	Sara Stewart, UNECE Consultant
Looking Forward - A Discussion (Session Facilitator - Alex Donald, GSNI)		
16:00	AI... Opportunities and Threats - Followed by a panel discussion	EUROGI and Panel Members
16:25	Close	Rico Santiago (Chair AGI NI)

* A 5 minute Q&A will follow each session.



Welcome from the chair of the AGI Northern Ireland

Rico Santiago, Chair, AGI Northern Ireland

We are pleased to note that after two years of hosting the event virtually, Northern Ireland's flagship GI conference will be held in-person on Wednesday, the 28th of June, at Belfast City Hall.

Spatial technologies and methodologies are changing at a rapid pace, and the applications of mapping and geographic information (GI) are constantly expanding into new areas. In times of economic difficulties and limited resources, our Northern Ireland GI community leverages many of these advance geospatial technologies to realise benefits to organisations and the general public here and now.

To that end, we welcome you to engage with and learn from geospatial professionals, practitioners and enthusiasts at this year's event. At the conference, you'll hear about advances in the field of geospatial information and allied technologies, and how they are being used to support the delivery of organisational objectives and public services.

We are delighted to announce fantastic speakers touching on topics including:

- Land registration, property transactions and analyses
- Geospatial data integration and national statistics
- Remote sensing, surveying technologies, and their applications
- Applications of geospatial in the health sector

Rico Santiago

Rico Santiago is the Deputy Head of Business Development for the Ordnance Survey of Northern Ireland (OSNI) and has been Chair of the Association for Geographic Information Northern Ireland (AGI NI) since 2017. With remit over OSNI's Public Sector mapping support and consultancy, he strives to improve government services using geospatial information and technologies. As Chair of AGI NI, he is passionate about leveraging location data and information for the public good.

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Mobile Mapping: A solution for industry to measure, map and manage infrastructure remotely.

Mark Bowers & Ronan Killough, KOREC

Mobile based surveys are providing industry with a quick, cost effective and accurate alternative to traditional methods of surveying and monitoring infrastructure. The increasing adoption of mobile mapping solutions are driving innovation in both hardware and software within the field allowing the technology to be integrated within a number of sectors. Technologies discussed will be LiDAR, photogrammetry, ground penetrating radar, thermal imagery surveys as well as our bespoke KLEARVIEW360 product suite and AI/Machine Learning integration. A specific case study will be presented on the end-to-end digital workflow for the National Highways Concrete Roads Programme and Digital Roads for the Future Programme KOREC and K-MATIC have been supporting.



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The use of high definition orthophotography, LiDAR and near infra-red imagery to identify new archaeological sites around Northern Ireland's coastline

Colin Dunlop, DAERA

The use of high definition orthophotography, LiDAR and near infra-red imagery to identify new archaeological sites around Northern Ireland's coastline

In 2021 the Department for Agriculture Environment and Rural Affairs (DAERA) commissioned a topographic LiDAR, orthophotography and near-infrared survey of Northern Ireland's c.700km of coastline. Data at 0.25m resolution was acquired across a total area of 285km², encompassing the zone between the mean low water mark and 200m inland of the mean high water mark, as well as all sand dune complexes. Detailed terrain models were generated from the LiDAR data and imported into Arc GIS Pro where Hillshade modelling, using the Relief visualisation toolbox in Python, was applied. The terrain model, near infra-red imagery and orthophotography were then visually examined and any potential archaeological features recorded in GIS. Where these features were not found to be already present within the Historic Environment Record of Northern Ireland they were verified through physical site inspection before addition to the national monuments record. The survey identified 292 new archaeological features, 163 below the mean high water mark and a further 129 sites within the 200m boundary above the mean high water mark.

This presentation will outline the methodology undertaken during the survey, the limitations identified within each of the three survey data sets and provide a summary of the results of the project.

Colin Dunlop

Marine Historic Environment Advisor

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Producing Remote Sensing Outputs using ArcGIS

Eamonn Doyle, ESRI

Eamonn Doyle

Chief Technology Officer

Eamonn Doyle is Chief Technology Officer at Esri Ireland. A seasoned professional, Eamonn has over 30 years' experience working with our customers to help them realise the benefits of ArcGIS. Eamonn has been involved in many of the seminal applications of GIS within Ireland and continues to be excited about the potential of technical innovation to improve our products and the success of our customers. In his spare time Eamonn is a keen sailor and races successfully on Dublin Bay.

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Geospatial Survey Service

Donna Hardy, Ordnance Survey of Northern Ireland

Bespoke survey services

Donna Hardy

Senior Mapping and Charting Officer

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At IMGS, data Intelligence and information is at the core of what we do. We provide solutions to automate data flows, visualise information and power data insights for a wide variety of customers including local authorities, government agencies, utilities and communication organisations.

Our solutions are built on our partner's technology platforms and serve the citizens of Ireland every day, from managing water and electric networks to publicising key e-government information through government portals. Through our market leading partners, including Hexagon, we provide organisations with end to end solutions that drive operational and capital efficiencies.



www.imgs.ie





IMGS Sponsor Presentation
Ciaran Kirk, IMGS

Ciaran Kirk
Operations Director

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Platinum Sponsor Presentation





Property Asset Management in local authorities in Ireland

Ciaran Kirk, IMGS

In the Republic of Ireland local authorities manage millions of euros worth of property across the country. Historically local authorities have used paper based manual workflows for recording property transactions – including acquisition, lease and disposal.

This presentation from Ciaran Kirk of IMGS will outline how Hexagon M.App Enterprise is being used by local authorities across Ireland to manage government property assets. The M.App Enterprise solution provides a modern platform so that government executives at any time can report on the value and status of the current assets and interest.

Ciaran Kirk

Operations Director

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Transforming Land Registry in the Republic of Ireland – Mapping functions and processes

Maria Forkin, Tailte Eireann

Maria Forkin

Tailte Eireann

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System Integration at LPS using referenced geospatial data

John O'Toole, 1Spatial

Through the NOVA programme, Land and Property Services (LPS) is realising a long-term dream, that by integrating the organisation at a data level, they can discover new insights that will result in the improved delivery of services to the public.

Geospatial data is core to every service LPS delivers, every decision it makes, and every product it issues. So, when they embarked on the NOVA programme to transform their organisation, LPS knew better than anyone that a data-led approach was essential.

Together with Version 1 and 1Spatial, two organisations that share their passion for data, LPS is creating a data-driven future for Northern Ireland. By integrating the line of business systems of the four LPS Directorates, the Integration Partner contract will create digital-first solutions that deliver a holistic view of all data across the organisation to streamline public services.

Working alongside Version 1, 1Spatial are providing the geospatial expertise to master data across LPS through the cross referencing of spatial data between the directorates. The Referenced Data Regime (RDR) will create and maintain the references between common entities, providing a golden thread through the key line of business datasets, for example linking a Pointer address to the OSNI Fusion Building, to the Valuation and Rating records, through to the Land Registry ownership details. Exposing the references through APIs enables system to system communication to address many use cases and provides the foundation for event-based change notification leading to more efficient business processes.

John O'Toole

John is a Geospatial Enterprise Architect at 1Spatial, having joined the company in 2005. With a career spanning over 20 years, he has extensive expertise in the field of geographical information.

John's primary focus lies in implementing geospatial systems for the public sector. Throughout his career, he has been instrumental in the successful execution of notable projects including the PRIME2 data modelling and data migration project at Ordnance Survey Ireland, the Digital Mapping System at the Property Registration Authority of Ireland, and the Mapping Workflow system at Ordnance Survey Northern Ireland.

As the leader of the 1Spatial Ireland team, John has the responsibility of ensuring the efficient delivery of projects to our public sector clients.

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20 minute neighbourhoods

Andy Williams, LandClan

Imagine you could score every single land parcel in the country on its ability to deliver neighbourhoods and not just houses. Now imagine that the evidence base updated itself automatically, and that every level of government down to community council had access to user friendly tools to do the work. The reality of this vision plays out differently across the nations of the UK, primarily as a result of policy and not skills or resources. LANDCLAN will show what can be achieved when the right datasets are available to be aggregated.

Andy Williams

COO

Andy is responsible for making sure that the GIS voice is heard in major projects and business transformations. A twin track career has seen him integrate senior technical and business roles over 25 years and he now leads the UK expansion of LANDCLAN, an exciting GIS and GI platform that is transforming property and planning. Ask me about tensions between the housing, environment and financial crises, and I will tell you why consistent, open data across the whole UK is more important than ever.

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GI and Spatial for the Future – *Here and Now*

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Eamonn Doyle

Chief Technology Officer at Esri Ireland

Topic: *Producing Remote Sensing Outputs
using ArcGIS* | **Time:** 10.30 am

Aaron Taggart and Solenn Reeves-Long

*Technical Pre-Sales Consultant &
Graduate Consultant at Esri Ireland*

Topic: *ArcGIS: Discoveries from New
Perspectives* | **Time:** 12.35 pm



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ArcGIS: Discoveries from New Perspectives **Aaron Taggart & Solenn Reeves-Long, ESRI**

Aaron Taggart

Aaron Taggart works as a Technical Pre-Sales Consultant within Esri Ireland's Sales team. Aaron is actively engaged with customers providing his GIS and software development knowledge and presentation skills to build and present engaging prototypes and applications using the ArcGIS platform.

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Solenn Reeves-Long

Solenn Reeves Long has recently begun her career in GIS by joining Esri Ireland on the Graduate Program (October 2022), which is 18 months long. Solenn has a keen interest in making ArcGIS software more accessible to new learners and implementing its use in the environmental protection sector. In her free time Solenn likes to spend her time outdoors by going on hikes, going sea swimming and planting trees.

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Finn Briody, KOREC

Maps matter.

Whatever sector you work in, be it national infrastructure, road, rail or utilities, local government, forestry – everything happens somewhere. And you want the process of recording, collecting and sharing your geospatial data to be as simple, hassle free and efficient as possible.

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MGIS Consultant

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SARS-CoV-2 introductions to the island of Ireland

Dr Evan P Troendle, Queen's University Belfast

Severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2) has had an unprecedented impact on the people of Ireland as waves of infection spread across the island during the global coronavirus disease 2019 (COVID-19) pandemic. Viral whole-genome sequencing (WGS) has provided insights into SARS-CoV-2 molecular mechanisms of pathogenicity and evolution and contributed to the development of anti-virals and vaccines. High levels of WGS have enabled effective SARS-CoV-2 genomic surveillance on the island of Ireland, leading to the generation of a sizeable data set with potential to provide additional insights into viral epidemiology. Because Ireland is an island, accurate documentation of travel rates

to and from other regions, both by air and by sea, are available. Furthermore, the two distinct political jurisdictions on the island allow comparison of the impact of varying public health responses on viral dynamics, including SARS-CoV-2 introduction events.

Using phylogenomic analysis incorporating sample collection date and location metadata, we describe multiple introduction and spreading events for all major viral lineages to the island of Ireland during the period studied (March 2020–June 2022). The majority of SARS-CoV-2 introductions originated from England, with frequent introductions from USA and northwestern Europe. The clusters of sequences predicted to derive from discrete introduction events (“introduction clusters”) vary greatly in size, with some involving only one or two cases and others comprising thousands of samples. When introduction cluster samples are mapped sequentially by collection date, they appear predominantly in previously affected or adjacent areas. This mirroring of the phylogenetic relationships by the geospatiotemporal propagation of SARS-CoV-2 validates our analytic approach. By downsampling, we estimate the power to detect introductions to Ireland as a function of sequencing levels. Per capita normalisation of both sequencing levels and detected introductions accounts for biases due to differing sequencing efforts and total populations. This approach showed similar rates of introductions for all major lineages into Northern Ireland (NI) and Republic of Ireland (RoI) with the exception of Delta, which was higher in NI which is likely attributable to higher travel per capita. However, there were similar rates of Delta infection within NI and RoI, suggesting that although travel restrictions will reduce risk of introducing novel variants to the region, they may not substantially decrease total incidence.

Our generalisable methodology to study introduction dynamics and optimal sequencing levels will assist public health authorities to select the most appropriate control measures and viral sequencing strategy. The associated preprint can be accessed (<https://doi.org/10.1101/2023.05.11.23289783>).

Evan Troendle

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Using computer vision techniques to identify and assess the quality of green space from satellite imagery

Dr Niall McLaughlin and Dr Neil Anderson, Queen's University Belfast

Building on earlier work on air pollution, particularly fine particulate matter, PM2.5, we aim to further characterize environmental characteristics that might influence cognitive ageing and dementia. Access to green (i.e., parks) and blue (i.e., rivers/beaches) space and other environmental characteristics can influence mobility (e.g., the availability of bike paths, and paved roads) and green space is known to provide numerous health benefits, such as reducing premature mortality, improving mental health, and lowering cardiovascular disease risk. In this talk, we will discuss recent work at Queen's University Belfast, carried out by the Centre for Public Health (CPH), and the School of Electronics, Electrical Engineering and Computer Science (EEECS), on mapping accessible and high-quality green space from aerial and satellite imagery. Our talk will focus on the use of deep-learning neural networks to automatically label satellite images. We will discuss how these models can be designed and some of the challenges of creating a high-quality set of labelled images for training. Our approach will involve the use of data from Open Street Map, NDVI, and satellite imagery, enabling us to distinguish between high and low-quality green spaces, providing a valuable tool for public health initiatives.

Dr Niall McLaughlin and Dr Neil Anderson

Lecturer / Senior Lecturer

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Investigating the impact of near-term climate change on malaria incidence patterns at health facility level in Zambia (2009-2015)

Sarah Duff, Ulster University

While a preventable disease, malaria is still a leading cause of death worldwide for children under five, and although progress has been made globally, Zambia is one of 13 endemic countries to report increases in the past decade. This study implemented Ordinary Least Squares and Geographically Weighted Regression to model climatic variables and their relationship with malaria prevalence. Results show heterogeneity in the influence of these variables spatially, with local r^2 values ranging from -0.4 to 0.57. In areas targeted with intensive intervention administration a strong negative association is observed, however in the majority of health facilities the strong positive association with environmental variables indicates that climatic changes may be counteracting intervention effectiveness, with the influence of such variables increasing linearly over the study period. The study concludes that near-term climate change has significantly impacted malaria incidence in Zambia.

Sarah Duff

Student, Ulster University

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Green map layer for NI: An update **Emma Taylor**, Outdoor Recreation NI

Following on from last year's introduction to the GreenspaceNI Map, Emma returns to give an update on the GreenspaceNI Map which has now been officially launched and made publicly available on Spatial NI. As well as this some of the results from the initial proximity analysis, what these tell us and what's next for the map will also be demonstrated.

Emma Taylor

GIS Technician, ORNI

Emma is a key member of the Greenspace Layer project team delivering Northern Ireland's first authoritative map of all publicly accessible greenspace and off-road trails. As well as using her GIS skills, Emma liaises with government departments and agencies, Councils, and eNGOs to refine and verify data before it is imported into the Greenspace Layer. When published, the map will be available on OutmoreNI, SpatialNI and OpenDataNI.

StoryMap: <https://storymaps.arcgis.com/stories/375df094221746b0bec587faaf95d618>
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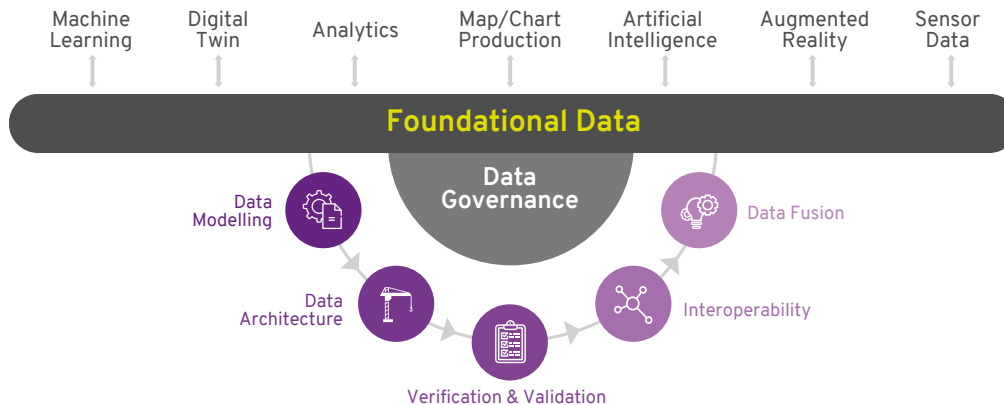


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Are you data obsessed?

1Spatial is obsessed with geospatial data. We talk about it in every meeting, across all departments, and at every level of the company. We feed this passion by working with organisations where data is their business or where data drives and delivers their goals. Our goal is to help them extract every drop of value from their data.

With organisations swimming in more data than ever, they are eager to unlock its true value. New technologies like machine learning and AI promise new insights from data, but those of us who are data obsessed know this nirvana can only be reached with high-quality data.



1Spatial believes that without being passionate about data governance, organisations cannot extract the full value from their data. Good data governance ensures that your data is mastered through good data architecture, data modelling, data quality, and data interoperability.

Scan the QR code to find out and learn how 1Spatial automate data governance.





We are a team of data scientists and surveyors, all of us experienced in spatial analytics. Our mission is to provide enhanced access to data that improves everyone's use of land and property.

The UK is a rich data environment, but the abundance and range of sources make it difficult and expensive to harness the critical pieces of information you need. Our advanced spatial data engine has been created to overcome deficiencies in the cross-referencing ability of standard database and GIS technology.

Users have access to our entire spatially joined catalogue, ESRI's Living Atlas and any intelligence you have in your own systems.

LANDCLAN also provides a range of tools for property and planning leaders to make better decisions.





NI's New Census Geographies

Brian Foley, Northern Ireland Statistics and Research Agency

The latest decennial census in Northern Ireland took place in March 2021, with the publication of associated statistical outputs well under way. The ability of the census to provide detailed information on population and housing characteristics at a local level is one of its main benefits. As such, small-area output geographies are a key dissemination tool. This presentation covers the development of two new small-area output geographies for disseminating Census 2021 data, including why this was necessary and describing the method involved.

Brian Foley

Statistician

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Current activities to develop capacity in geospatial and statistical data integration

Sara Stewart, UNECE Consultant

We are living in an increasingly digital age as rapid technological change and digital transformation is reshaping the way we view, and interact with, our world. Data is both a consequence and a driving force for global development and has come to the fore as an infinite resource which can be used to better understand and address some of the biggest challenges faced by society. The adoption of the 2030 Agenda for Sustainable Development has brought the need for harmonised data of increasing quality, accuracy, currency, and granularity to the forefront of global, regional and national agendas to support the measurement and monitoring of the Sustainable Development Goals. As data providers, national statistical and geospatial organisations play a central role in this data revolution and the integration of geospatial and statistical data is viewed as one of the most promising ways to maximise data-driven decision-making across space and time. Global efforts to progress the greater integration of geospatial and statistical data have been ongoing for a decade, centred upon the work of the United Nations and its various bodies and expert groups, but increasingly extended and adapted to regional contexts, for example, by the work of UNECE, Eurostat, UN-GGIM: Europe and others in Europe, and the activities of trailblazing organisations who showcase examples of best practice at national levels. This lightening talk aims to provide a high-level overview of current activities to support the integration of geospatial and statistical data, before introducing a European Commission funded project currently being led by UNECE which aims to develop greater capacity in geospatial and statistical data integration across the UNECE region by fostering stronger links between statistical and geospatial communities, facilitating greater collaboration, and promoting stronger institutional partnerships and the use of common standards.

Dr Sara Stewart

UNECE Consultant

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AI... Opportunities and Threats

Bruce McCormack, EUROGI, the European Umbrella Organisation for Geographic Information

The presentation will briefly mention what is AI and highlight some of the opportunities and threats which it poses. Will identify some of the features of a large multi-functional GeoSpatial AI. Finally, will broadly address how to deal with AI threats without compromising achievement of the benefits.

This will be followed by a panel discussion.

Bruce McCormack

EUROGI, the European Umbrella Organisation for Geographic Information

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Wastewater Monitoring for COVID: SARS-CoV-2 Wastewater Surveillance using Spatial Data Analysis in NI

Dr Behnam, Firoozi Nejad, Queens University Belfast

As SARS-CoV-2 is shed in high levels in faeces, wastewater testing has the potential to become a complementary, early-warning strategy for future ‘hot-spot’ outbreaks of Covid 19, aiding governmental decision making around future infection prevention/control policies.

Researchers at Queen’s University Belfast have developed an integrated GIS wastewater SARS-CoV-2 surveillance programme which employs standardised viral wastewater testing protocols. The development of a GIS Reporting Tool enables integration of public health data with environmental surveillance for the community monitoring of SARS-CoV-2 levels.

Dr Behnam, Firoozi Nejad

GIS Scientist, Queens University Belfast

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Investigating the capabilities of handheld LiDAR in mapping and identifying underground spaces in the urban environment

Aaron Miller, Queens University Belfast

Aaron Miller

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Creating a land cover and use map of Northern Ireland

Kathryn Weir, Ordnance Survey of Northern Ireland

As part of the Geospatial Commission's National Land Data Programme, OSNI have completed a proof of concept into creating a land cover and use map based on OSNI Fusion polygons attributed using authoritative datasets.

Kathryn Weir

Senior Mapping and Charting Officer

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AGI Early Careers Network
It's not all about the money:
What else do early career professionals in the geography and geospatial sectors value from their employers, aside from pay?

Emma Scott, AMEY / AGI ECN

An introduction to the Association of Geographic Information's (AGI) Early Careers Network (ECN) including who they are and what they do, as well as results from their recent survey. In collaboration with the Royal Geographical Society (with IBG) (RGS-IBG), the AGI ECN were interested in finding out what early careers professionals value from their employers, aside from pay. In order to find out, the AGI ECN and RGS-IBG co-designed and published an online survey which was shared on the AGI and RGS-IBG channels, running from September to November 2022. The poster presentation examines the survey and it's results.

Emma Scott

Assistant Geospatial Consultant / AGI ECN Social Media and Publicity Officer

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How GIS can improve the place I live

Daniel Shortland & Rebecca Elliott, LandClan

As students of Ulster University, we have been introduced to the field of GIS and have taken up student internship of one year with LANDCLAN. This poster demonstrates some of our ideas of how GIS could be used to improve where we live, focusing on a case study area within Northern Ireland.

Daniel Shortland & Rebecca Elliott

GIS Analyst – Student Intern Programme

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How Geographic Information and Citizen Science Can Improve Analysis of Biodiversity, Green Space, and Socioeconomic Wellbeing

Steven Farquhar, Queens University Belfast

Analysis of the relationship between biodiversity, green space, segregation, socioeconomic status, and health drawing upon census data, remote sensing, and the NBN Atlas. NBN Atlas data is split into citizen science data (e.g., iNaturalist) and other data (e.g., BTO surveys). I suggest that citizen science, combined with GI, benefits analysis of the relationship between biodiversity, green space, and socioeconomic wellbeing.

Steven Farquhar

BSc Student

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About AGI Northern Ireland

AGI Northern Ireland (AGI NI) was officially launched in 2002 to help raise awareness of geographic information and to encourage data and knowledge sharing.

Over the years, our mission has developed to reflect the changing industry, society and environment around us by actively supporting a sustainable future for our geospatial community.

Since our formation, we have established strong partnerships with public and private sector organisations locally as well as further afield. Along with the support of our partners, AGI NI has representation on the AGI Council which helps steer the direction of the Association and the support it offers to Northern Ireland

Twitter: [@NI_AGI](https://twitter.com/NI_AGI)

www.agi.org.uk/agi-northern-ireland/

Join AGI

By joining the AGI today you will surround yourself with like-minded professionals, passionate about the development of the GI and Geospatial world.

The AGI has three key pillars of activity:

- Nurturing and connecting active GI communities
- Supporting career and skills development for GI professionals
- Providing thought leadership to inspire future generations.

Our national groups present opportunities to connect with others in your location and our online member directory provides direct contact and communication with your peers both locally and nationally. You can of course join all national groups should you wish. Scotland, Northern Ireland and Cymru offer an annual programme of events and activities over and above the very successful AGI Annual Conference, GeoCom all of which are available to you as a member at a discounted price*.

So, wherever you are located you can tap into relevant community resources as well as the most up to date national and international developments.

Join our network of over 1000 GI professionals; together, we will inform, influence and act as a united voice for the UK's geospatial industry.

We actively encourage startups and scaling businesses to be part of our thriving community, helping you to build your network and raise your profile. If you are an early stage company we offer a generous 75% discount on your Associate membership. Your company must be less than 2 years old and employ less than 5 staff. Please contact us directly for further information.

<https://www.agi.org.uk/membership-levels/>



Belfast
City Council