



AI Integrated Framework for Intelligent Geospatial Handling and Robust Operation in MultiGIS Applications (AI4MultiGIS)

Topic: Multidimensional Geographic Information Systems (MultiGIS)



AI4MultiGIS

Deliverable D6.1 Dissemination and Communication Plan

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Deliverable Factsheet

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Executive Summary

The purpose of this deliverable is to present the Dissemination and Communication plan that will guide the development of activities planned for the project, to maximize the impact of the project on target audiences, and to present the KPIs defined for the project which will allow to monitor and evaluate the success of the work performed in T6.1.

The project's communication activities will call attention of multiple targeted stakeholders about the research being implemented. The document describes the communication strategy, objectives, and activities and introduces our visual identity, tools, and materials while suggesting measures for monitoring our communication efforts. By sharing the research results with the rest of the scientific community, the AI4MultiGIS project will contribute to the progress of science in general and to the achievement of the project goals.

The activities regarding Dissemination and communication are expected to change based on the needs and the developments of the project. This document contains an overview as seen during month 01 to month 15 of the project.

Document History

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0.1	03/03/25	Shareeful Islam	ToC
0.2	10/05/25	Shareeful Islam	Introduction, and other sections content
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1 Introduction

This communication and dissemination plan plays a crucial role in advancing innovation and fostering collaboration within the Multi-dimensional GIS landscape. Our approach is guided by principles of transparency, accessibility, and inclusivity, aiming to engage diverse stakeholders in dialogue around GIS challenges and adoption of AI for processing of GIS data. Through innovative communication methods and targeted dissemination activities, we seek to maximize the impact of our research findings and technological advancements.

1.1 Purpose and Scope

In this deliverable, the main goal is to present an overview of the communication and dissemination plan for the AI4MultiGIS project, providing a roadmap for effectively sharing project objectives, activities, and achievements with key stakeholders such as academic researchers, policymakers, and public.

The scope of the plan involves targeted communication efforts and measures aimed at enhancing awareness of the importance of AI enabled GIS application with operationalise of Responsible AI and best practices. Through collaboration with stakeholders via various channels, such as workshops, events, webinars, and publications, with the objective of sharing knowledge, ideas, and promote information exchange. With these joint efforts we attempt to enhance adoption of AI powered GIS applications.

1.2 Contribution to other Deliverables

This deliverable serves as the backbone for the dissemination and communication activities throughout the AI4MiltiGIS project. By outlining the strategy and objectives for how information will be shared, this document directly impacts the success of other deliverables and work packages within the project. It ensures that key project outcomes, research findings, and achievements are effectively communicated to stakeholders, thereby contributing to the fulfilment of specific project milestones outlined in other deliverables. Moreover, the communication and dissemination strategy outlined here helps maintain stakeholder engagement, fosters collaboration, and enhances the overall visibility and impact of the project.

This document establishes the strategic framework for all AI4MultiGIS communication and dissemination. By defining clear objectives for information sharing, it acts as a catalyst for the success of subsequent work packages and deliverables. It ensures that key project outcomes, research findings, and achievements are effectively communicated to stakeholders, thereby contributing to the fulfilment of specific project milestones outlined in other deliverables. Moreover, the communication and dissemination strategy outlined here helps maintain stakeholder engagement, fosters collaboration, and enhances the overall visibility and impact of the project.

1.3 Structure of the Document

The document offers a detailed layout of AI4MultiGIS communication and dissemination plan, divided into two main sections: communication and dissemination. Within each section, key elements such as objectives, target groups, activities, and monitoring measures are thoroughly addressed to provide a comprehensive understanding of the project's outreach activities. WP6 at glance is presented in Section 2.1. Moreover, the

document is searching into topics like the project's visual identity, communication tools, and its contribution to other deliverables, offering stakeholders a holistic perspective on AI4MultiGIS's engagement efforts. This structured format ensures clarity and accessibility, facilitating efficient navigation for stakeholders seeking detailed insights into the project's engagement initiatives.

2 Introduction to AI4MultiGIS project

MultiGIS provides precise and real-time spatiotemporal data analysis, which greatly benefits various applications including environmental monitoring, sustainable development, resilience-building, and urban planning. Despite wider adoption of MultiGIS applications, there are significant challenges remaining, notably relating to data collection, generation, storage, and real-time data processing from a set of diverse heterogeneous sources within MultiGIS environments. Due to limited data availability in most of the MultiGIS applications, it is necessary to generate synthetic data to enrich MultiGIS representations. Existing GIS-backed geostatistical AI tools can address some of these challenges but are limited with spatial autocorrelation and lack plug and play integration with existing tools as well as assurance of transparency, privacy, fairness, regulatory compliance of AI-enabled MultiGIS applications.

AI4MultiGIS offers an integrated framework for MultiGIS data generation and management, which aims to enhance the overall GIS capabilities for optimised processing chain of MultiGIS applications. The project will deliver innovative solutions to collect and consolidate the data from diverse sources. It will develop techniques for automated outlier detection for reliable data processing, real-time spatiotemporal data processing for informed decision making and plug and play capabilities using a cloud-integrated AI platform for multi-modal data integration. AI4MultiGIS considers assurance of responsible AI within the AI-enabled MultiGIS applications through development and implementation of policy and best-practice guidelines. Finally, AI4MultiGIS is evaluated through two pilot case studies to demonstrate their effectiveness and wider adoption of AI4MultiGIS in different MultiGIS applications beyond the project.

AI4MultiGIS vision is to deliver an integrated framework which aims to optimise the processing chain of MultiGIS data to support robust operation of GIS-enabled applications and services. Furthermore, AI4MultiGIS aims to ensure transparency, privacy, fairness, and relevant regulatory compliance for the AI-enabled applications. To achieve this, AI4MultiGIS develops novel methods, techniques, and tools for data collection, real-time spatiotemporal data processing, geostatistical analysis and cross-model/multi-modal data interpretation with plug and play capabilities, and policy to govern the assurance of responsible AI for AI-enabled MultiGIS applications.

2.1 WP6 Objectives

The main aim of WP6 is to provide the project's visual identity, including disseminating the project's results towards all relevant stakeholders and as widely as possible through developing and executing dissemination and exploitation strategy. This will coordinate with other WPs in the design and presentation of proper knowledge sharing material and will support and cover the open access to all public deliverables and outputs, including publications of the project.

Specifically, task 6.1 will produce the plan for Dissemination and Communication of the AI4MultiGIS project, which will steer the activities throughout the project's implementation. The plan (D6.1) will be delivered at

a very early stage of the project (M3) and updated every twelve (12) months with new actions and activities to be performed and will be active until the end of the project.

3 Communication and Dissemination Strategy

The project's dissemination plan utilizes a strategic mix of channels tailored to specific target audiences. Hence, the communication and dissemination activities are strategically planned and are not just ad-hoc efforts. This is the reason why the project has created this strategy and has planned dissemination and communication activities. Every project partner will ensure that dissemination activities are conducted nationally, and if applicable, it will contribute to disseminating the project's results internationally. As such, dissemination aims at generating values for EU industries and academia. As soon as the first exploitable deliverables and outputs are created, the project partners will disseminate the project's results to both scientific and industrial communities and other target groups, to stimulate awareness. The dissemination content will be prepared keeping in mind the relevant audience and their technical level of understanding. The reasoning behind the dissemination content will be to convince the audience for the benefits of the (expected) project outcomes.

3.1 Targeted Stakeholders through Education and Capacity Building

Education and Capacity Building: The project's dissemination approach places strong emphasis on building capacity among students, early-career researchers, and professionals who will ultimately design and manage Sustainable Drainage Systems (SuDS) in real-world contexts. To support this capacity-building pathway, the project has recruited MSc graduate, PhD-level research assistants and early career Postdoctoral researcher, on full and part-time basis, enabling them to contribute to different technical, applied and dissemination components of the AI4MultiGIS pilots. The project has already been disseminated within ARU through presentations at Postgraduate Research (PGR) seminars, strengthening internal awareness and engagement. Building on this, a series of workshops—and later, structured tutorials—will be organised for PGRs, early-career researchers, and students across relevant disciplines. These activities will ensure that emerging planners, engineers (particularly those within the School of Engineering & Built Environment), and environmental managers acquire the practical skills needed to apply advanced AI-driven analytical methods to address urban water and SuDS-related challenges with confidence.

3.2 Targeted Users from Pilot Cases

Pilot #1 Stakeholder and Practice Engagement (Local Authorities, Water Companies, Environment Agency, Practitioners and so on): Given the applied nature of pilot 1, the dissemination strategy prioritises active engagement with local authorities, UK water companies, environmental consultancies, and urban planning practitioners. Through co-creation workshops, technical demonstrations, and practice-oriented guidance notes, stakeholders will be directly involved in evaluating how AI-enhanced GIS tools can support SuDS planning in urban areas. Organisation of a workshop has been already agreed with Chelmsford City Council in the UK who are willing to support us with data collection as well as later testing and validation and dissemination. This ensures that all stakeholders involved in SuDS planning, design, construction and

adoption are involved with translating the outcomes into actionable, operational knowledge that practitioners can adopt into GIS-based SuDS and flood planning.

Scientific Community Dissemination: To maximize academic impact, findings from the AI4MultiGIS pilot will be disseminated through peer reviewed journal articles, conference presentations, and interdisciplinary research networks spanning AI, geospatial analytics, hydrology, and urban sustainability. At the conceptualisation stage, we have already published a conference paper at the SYNASC 2025 conference, establishing the methodological foundation of the pilot. Two additional journal publications based on Pilot Case Study 1 are currently in preparation (projected submission March-April 2026) and will further detail the AI supported multicriteria decision-making framework and its applied outcomes for SuDS planning. The project has also been presented at several academic and professional events, as documented in the progress report, helping build visibility and stimulate early scholarly discussion. As the pilot advances, more detailed scientific outputs will be produced to contribute to methodological innovation and strengthen the evidence base for applied AI in urban water management.

Pilot #2 biologists and nature parks managers: This pilot tackles biodiversity, species preservation, and mitigating invasive species in local habitats. As a result, key audience is formed by biologists and nature parks managers. In addition, its AI oriented approach into modelling invasive species behaviour is of interest to researchers dealing with machine learning models and large-scale heterogeneous data analysis. These results will be published in domain specific conferences (biology, AI and computer science, archeoastronomy, heritage) and journals with some work already being sent out or presented.

3.3 Project Scientific Results

The AI4MultiGIS project has established a robust international presence by spearheading high-impact dissemination across the convergence of AI, IoT, and geospatial research. A central pillar of this strategy is the delivery of high-tier peer-reviewed outputs, notably a journal article in *Computer Networks* (Elsevier) that introduces quantum-hybridized IoT localization. These methodological foundations were further solidified by a cluster of three papers at the 28th IEEE ISORC 2025, which provided scalable solutions to critical infrastructure challenges, including LoRaWAN gateway optimization, energy-efficient CNN-based sensing, and privacy-preserving Federated Learning for distributed intelligence.

Beyond individual publications, the project has actively shaped the global research agenda by organizing the AI-Driven MultiGIS 2025 workshop in Ho Chi Minh City (held in conjunction with MEDES 2025). This flagship event facilitated the debut of the project's core "AI-Integrated Framework for Intelligent Geospatial Management," effectively bridging the gap between distributed computing and spatial analytics. With presence at premier venues such as ACM/IFIP Middleware and IEEE/ACS AICCSA, these activities demonstrate an interdisciplinary excellence that balances theoretical innovation in AI with applied impact in urban water management and smart environment sensing.

Looking ahead, the project's 2026 roadmap centers on the Edge–Cloud Continuum and the transition toward Semantic-Native 6G Networks. Planned contributions to IEEE ICCSPA 2026 and the IEEE MeditCom 2026 (GTS-6G) workshop will showcase how AI-enabled signal processing and trustworthy networking architectures can support the next generation of "Green" digital infrastructures. By exploring the launch of a Journal Special Issue on Artificial Intelligence for Future 6G Systems, AI4MultiGIS aims to transition from an application-specific pilot to a primary reference for autonomous, real-time distributed systems. This strategic trajectory

ensures that project outcomes not only solve current geospatial challenges but also define the standards for the future of intelligent, connected urban ecosystems.

3.4 Individual Communication and Dissemination Plan

The success of the dissemination activities of the AI4HEALTHSEC project cannot be based only on the efforts of the project team. Each partner has to take responsibility to pass along and spread the information and messages of the project.

- **Anglia Ruskin University (ARU)** : ARU is the coordinator for AI4MultiGIS project with leading WP1, WP2 and WP6 based on its experience in the management of a variety of local and EU research projects. ARU is also playing key role for the development of Responsible AI framework which operationalizes RAI practice for AI powered GIS application. Finally, ARU guides the best practice development for the adoption of AI.

Based on the above description, ARU will contribute significantly to the activities of the project and will utilize all its channels for the successful dissemination and communication of the project results at the different points in the project life. Based on the needs and the purpose of each outcome or development, ARU will select the best fitting channel and method. ARU is committed to disseminating and communicating the outcomes of the project through means like Scientific Publications, websites, teaching and learning sessions , Workshops, Virtual Events, and social media.

- **West University of Timisoara Romania (UVT)**: UVT hosts Pilot 2 and 3(newly), two interdisciplinary pilots whose results are important for biologists working on the WoC® portal and archaeon astronomers working with GIS. As results are directly disseminated to relevant communities by direct communication, mailings lists, posts on relevant social media pages, and computer science / domain specific conferences and journals. Key results will also be published in the UVT newsletter for the entire academic community for broader impact.

- **University of Pau and Pays de l'Adour (LIUPPA)**: LIUPPA contributes to the AI4MultiGIS project through its research activities withing WP3 which he is leading, bringing strong expertise in distributed systems, artificial intelligence, Internet of Things, and geospatial data management. In particular, LIUPPA plays an important role in the development of advanced AI-driven architectures and frameworks supporting intelligent geospatial data integration and analysis. Through its contributions to the technical work packages and the development of AI-enabled MultiGIS solutions, LIUPPA supports the project's objective of advancing scalable and trustworthy data management and analytics for complex spatiotemporal environments.

Based on this expertise, LIUPPA will actively support the dissemination and communication of project results through multiple channels targeting both the scientific community and broader stakeholders. Dissemination activities will include peer-reviewed scientific publications, participation in international conferences and workshops, organization of specialized research events, and engagement with interdisciplinary research networks in AI, IoT, and geospatial computing. In addition, UPPA will leverage its academic teaching activities, institutional communication platforms, and professional networks to promote the project outcomes and foster collaboration with researchers, industry partners, and public stakeholders interested in AI-enabled geospatial technologies.

- **Lappeenranta-Lahti University of Technology (LUT)** : LUT's individual communication and dissemination plan focuses on ensuring visibility of its project contributions among scientific, industrial, and public-sector audiences. LUT will communicate project progress and results through peer-reviewed publications, conference presentations, workshops (IEEE MASS), seminars, project

events, teaching activities, and digital communication channels. The communication will particularly highlight technical developments, pilot-related findings, and responsible AI perspectives relevant to trustworthy GIS-related digital solutions. LUT will also contribute to joint consortium dissemination materials and use its established professional networks to reach stakeholders efficiently and support engagement throughout the project duration.

LUT will exploit and disseminate the project results through its established academic, industrial, and innovation networks in trustworthy AI, cybersecurity, blockchain, and software-intensive systems. In particular, LUT will promote the developed methods, tools, and policy-related outcomes through the Helsinki Blockchain Centre, the Finnish Information Security Cluster, and its ongoing collaboration with public- and private-sector stakeholders involved in digitalisation, secure data management, and responsible AI adoption. LUT will also use its research dissemination channels, including peer-reviewed publications, workshops, industry-oriented seminars, and project-linked events, to support the uptake of the project results. Through these activities, LUT will contribute to transferring the project's technical and responsible AI outcomes into practice, especially for organisations seeking trustworthy, interoperable, and scalable GIS-related digital solutions.

4 AI4MultiGIS Visual Identity

4.1 Logo



Ai4MultiGIS

The Ai4MultiGIS project logo features a dual-colour wordmark complemented by a striking globe symbol, thoughtfully designed to reflect the project's mission of intelligent geospatial AI integration.

Logo Elements:

Wordmark: "Ai4MultiGIS" is rendered in a two-tone typographic treatment — the prefix "Ai4Multi" appears in a softer sky blue, while "GIS" is emphasized in a bold, vivid blue — visually reinforcing the project's dual focus on AI and Geographic Information Systems.

Globe Symbol: Positioned centrally above the wordmark, the globe is composed of two interlocking spherical layers — an upper hemisphere in deep ocean blue representing sky and satellite data, and a lower hemisphere in vibrant earth green representing terrain and land-use mapping. An interconnected node-and-line network is overlaid across the globe, symbolizing multi-modal data fusion, spatial connectivity, and AI-driven analysis. Subtle circuit-board motifs on the upper hemisphere further emphasize the AI dimension of the project.

Colour Palette:

- **Ocean Blue (#1A6B9A / deep blue):** Used in the upper globe hemisphere and the "GIS" wordmark, representing satellite imagery, remote sensing, and data intelligence. It conveys precision and technological depth.

- **Earth Green (#4CAF50 / mid green):** Used in the lower globe hemisphere, evoking terrain, vegetation, and geospatial mapping — directly tied to the project's crop type classification and environmental monitoring applications.
- **Sky Blue (light blue):** Applied to the "AI4Multi" portion of the wordmark, offering a lighter, approachable tone that balances the boulder green and blue of the globe.
- **White nodes and connectors:** The network overlay across the globe is rendered in white, symbolizing clarity, data exchange, and the integration of heterogeneous geospatial sources.

Usage Guidelines: The logo is designed primarily for use on dark or black backgrounds, where the globe's vivid greens and blues and the white network connectors achieve maximum visual contrast. An adapted version with adjusted contrast should be used for light background contexts to maintain legibility and brand consistency across publications, presentations, and the project website.

4.2 Project Website

Digital communication plays a critical role in increasing the visibility and engagement of research projects with stakeholders, researchers, and the wider public. As part of **Task 6.1**, the AI4MultiGIS project website was designed and developed to serve as the main platform for disseminating project activities, outputs, and updates. The website is available at:

<https://www.ai4multigis.eu>

The website acts as the **primary public interface of the AI4MultiGIS project**, providing centralized access to project information, research outputs, events, and collaboration opportunities. It enables stakeholders, researchers, and the general public to stay informed about project developments, scientific contributions, and upcoming activities. The website contains several key sections including the **Home page, Project description, Work Packages, Case Studies, Resources, News, Project Updates, Consortium Partners, and Contact information**. These pages collectively present the project's objectives, research activities, outputs, and dissemination efforts.

Home Page

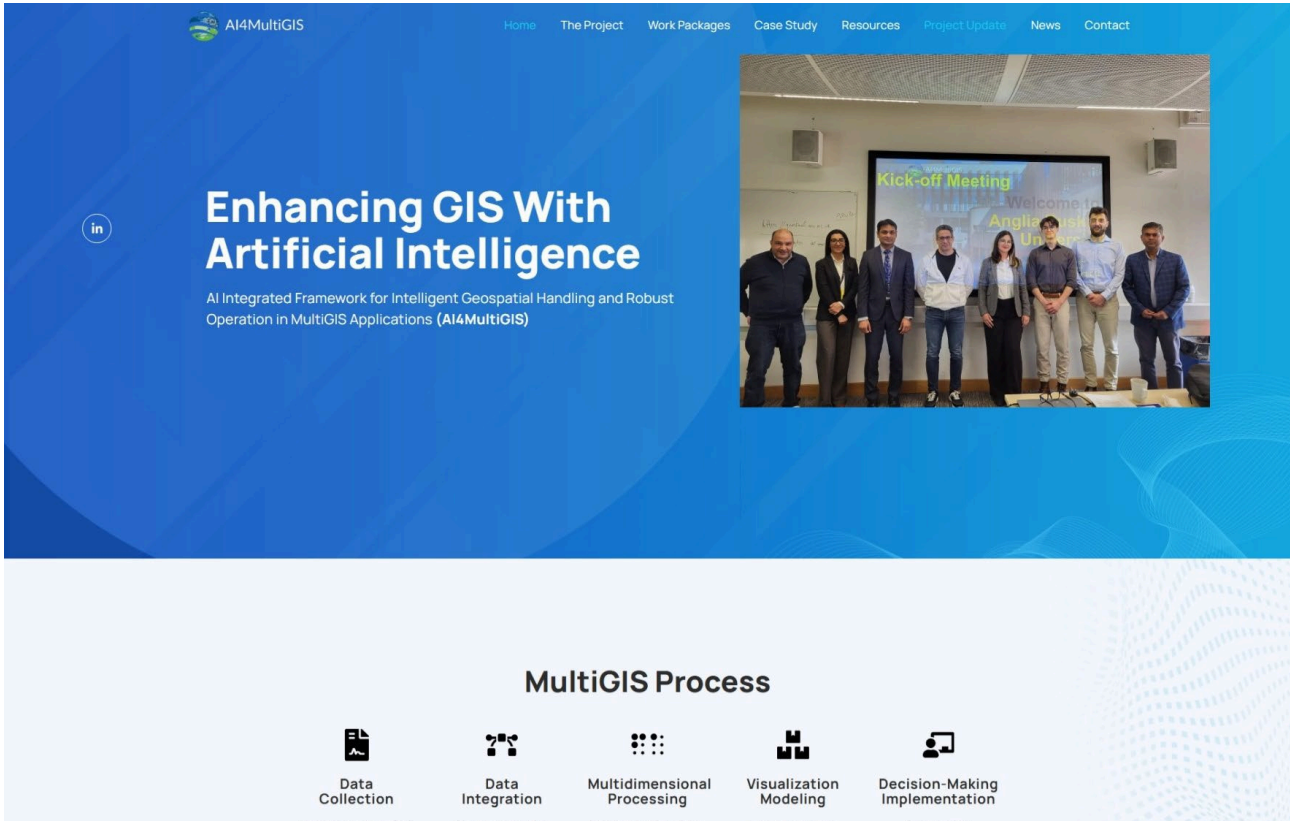
The **Home page** provides an overview of the AI4MultiGIS project and introduces the main objective of integrating **Artificial Intelligence with Multidimensional Geographic Information Systems (MultiGIS)**. The page presents the vision of developing an intelligent framework capable of handling complex geospatial data and enabling robust GIS-based applications.

The page also explains the **MultiGIS process**, which includes several stages such as **data collection, data integration, multidimensional processing, visualization and modelling, and decision-making implementation**. These steps demonstrate how spatial data is collected, processed, and transformed into actionable insights.

Additionally, the Home page highlights the **main objectives of the AI4MultiGIS project**, including automated data collection and preprocessing, real-time spatiotemporal data processing, geostatistical AI analysis for

decision support, and responsible AI governance. The page also includes sections displaying **project updates and upcoming events**, which provide visitors with the latest project developments.

Figure 1 shows the Home page of the AI4MultiGIS website presenting the project overview, objectives, and MultiGIS workflow.



Consortium Page

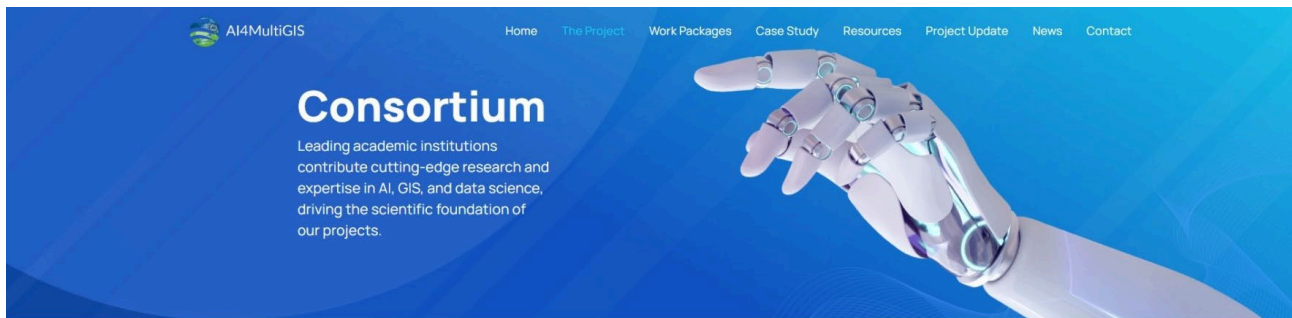
The **Consortium page** presents the institutions collaborating in the AI4MultiGIS project and highlights the interdisciplinary partnership that drives the project's research and innovation activities. The consortium brings together universities and research organizations with expertise in artificial intelligence, geospatial analysis, environmental science, and data engineering.

The project consortium includes:

- **Anglia Ruskin University (United Kingdom)** – The coordinating institution responsible for project management, AI policy development, and data governance. The university also contributes expertise in sustainable drainage systems and AI-enabled geospatial data modelling.
- **West University of Timisoara (Romania)** – Contributes research on synthetic data generation, environmental monitoring, and invasive species analysis using AI-driven geospatial techniques.
- **LUT University (Finland)** – Provides expertise in API integration, federated learning models, and scalable cloud-based infrastructures for MultiGIS systems.
- **University of Pau and Pays de l'Adour (France)** – Focuses on real-time intelligent data pipelines, anomaly detection, and decentralized geospatial data management.

The collaboration between these institutions ensures the integration of expertise from multiple disciplines, enabling the development of innovative AI-powered GIS technologies.

Figure 2 illustrates the Consortium page showing the project partners.



Our Partners

Collaborating for the Future of AI-Driven MultiGIS

News and Events Page

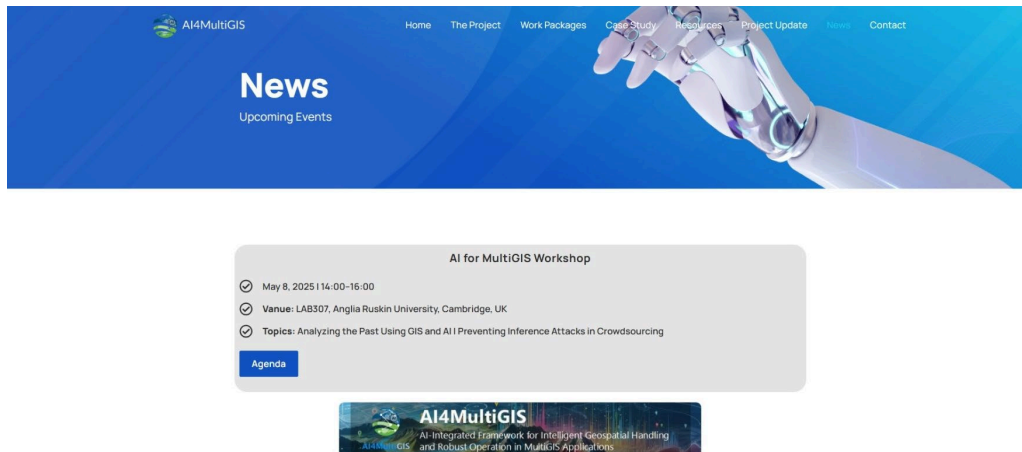
The **News page** of the AI4MultiGIS website provides information about project activities, announcements, and upcoming events. This page keeps the research community informed about workshops, seminars, and dissemination activities related to the project.

One of the major events highlighted on this page is the **AI for MultiGIS Workshop**, which was held on **May 8, 2025, from 14:00 to 16:00 at LAB307, Anglia Ruskin University, Cambridge, UK**. The workshop explored the integration of Artificial Intelligence techniques with Geographic Information Systems and presented research on spatial data analysis and privacy protection.

The workshop sessions included discussions on **analysing historical spatial data using GIS and AI techniques** as well as **preventing inference attacks in crowdsourced geospatial datasets**. These discussions demonstrated how AI technologies can enhance geospatial analytics while addressing privacy and security concerns.

The page also presents details of the **AI-Driven MultiGIS 2025 Workshop**, which focuses on scalable GIS systems powered by Artificial Intelligence.

Figure 3 presents the News page displaying workshop announcements and event information.



4.3 Social Media Presence

LinkedIn

In addition to the project website, the AI4MultiGIS project maintains a presence on **LinkedIn** to increase outreach and engagement with researchers, industry professionals, and other stakeholders.

The LinkedIn platform is used to share:

- Project updates and milestones
- Announcements of workshops and events
- Research outputs and publications
- Collaborative activities between consortium partners

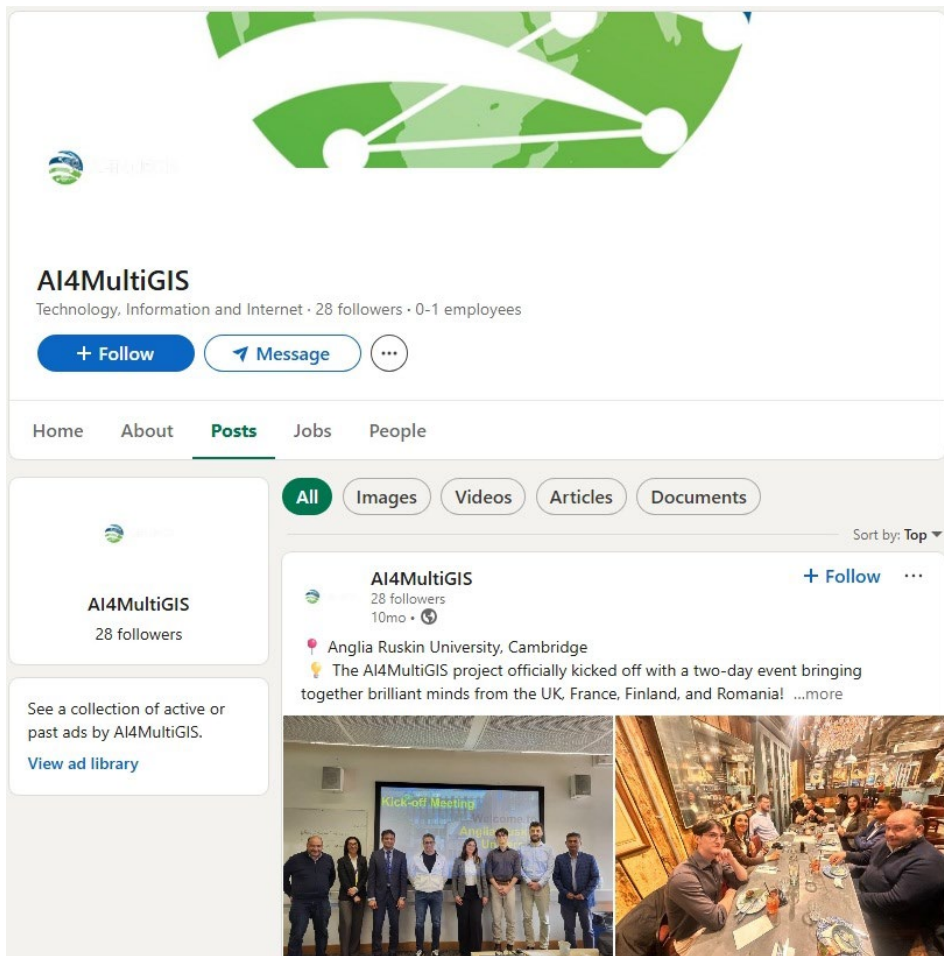
The LinkedIn page also promotes networking and encourages engagement with the global community working in artificial intelligence and geospatial technologies.

The official LinkedIn page can be accessed at:

<https://www.linkedin.com/company/ai4multigis/posts/?feedView=all>

At the time of writing, the page includes posts highlighting the **AI4MultiGIS project kick-off meeting at Anglia Ruskin University**, where consortium partners from the **United Kingdom, France, Finland, and Romania** gathered to initiate project collaboration and discuss research goals.

Figure 4 shows the AI4MultiGIS LinkedIn page displaying project posts and updates.



4.4 Workshop Events

The AI4MultiGIS project actively organizes and promotes workshops to disseminate research findings and encourage collaboration between researchers working in Artificial Intelligence and Geographic Information Systems.

AI for MultiGIS Workshop

The **AI for MultiGIS Workshop** was organized as part of the project's dissemination activities and was held on **May 8, 2025, at Anglia Ruskin University, Cambridge, UK**. The workshop included research presentations focusing on AI-driven GIS applications. Topics covered included **analysing historical spatial data using AI techniques** and **addressing privacy risks such as inference attacks in crowdsourced geospatial data**. The event provided a platform for researchers, academics, and students to exchange ideas and explore new research directions in AI-enabled GIS technologies.

AI-Driven MultiGIS 2025 Workshop

The **AI-Driven MultiGIS 2025 Workshop** is an upcoming academic event focusing on the integration of Artificial Intelligence and scalable Geographic Information Systems. This workshop aims to bring together researchers and practitioners working on **real-time spatial data processing, AI-based geospatial modelling, and ethical challenges in AI-driven GIS systems**.

The important dates for this workshop include:

- **Submission deadline:** August 20, 2025
- **Acceptance notification:** September 5, 2025
- **Camera-ready submission deadline:** September 16, 2025
- **Early registration deadline:** September 16, 2025
- **Workshop date:** November 24, 2025

The event will provide an opportunity for researchers to present innovative research and discuss emerging challenges in AI-driven geospatial systems.

Figure 6 illustrates the AI-Driven MultiGIS 2025 workshop information displayed on the AI4MultiGIS website.

Events

Past Event
AI for MultiGIS Workshop

- ✓ May 8, 2025 | 14:00–16:00
- ✓ Venue: LAB307, Anglia Ruskin University, Cambridge, UK
- ✓ Topics: Analyzing the Past Using GIS and AI | Preventing Inference Attacks in Crowdsourcing

Upcoming Event
AI-Driven MultiGIS 2025 Workshop

- ✓ Submission deadline: August 20, 2025
- ✓ Acceptance notification: September 05, 2025
- ✓ Workshop Date: November 24, 2025

Agenda Workshop

Event Details

AI4MultiGIS

Important

- Partners
- Deliverables
- Publications

Contact US

Project Coordinator:
Associate Prof. Shareeful
Islam

SYNASC 2025

A tutorial was arranged on Using GIS and AI for large-scale orientation analysis of remote heritage sites. In the tutorial, in this tutorial, we presented how QGIS can be used together with AI models and image processing to automate the large-scale analysis of heritage sites.

<https://synasc.ro/2025/tutorials/using-gis-and-ai-for-large-scale-orientation-analysis-of-remote-heritage-sites/>

Cambridge CleanTech Conference on Climate Change & Agri-Tech Deep Dives, 18 Sep 2025, Cambridge, UK.

This is an important annual event organised by Cambridge CleanTech that focuses on the latest on the use of technology in various aspects of built environment. Wide range of participants from businesses and entrepreneur to funders, layers, engineers and academics attend this event. So, this is great platform to share the project vision and outcome and its application.

Maryam Imani (Keynote speaker), NBS and use of technology showcasing AI4MultiGIS as an exemplar project that uses AI in the context of SuDS and NBS planning.

Figure 7 Cambridge CleanTech Conference



15:15 - 15:45	Refreshment Break Foyer
Nature-Based Solutions: Bridging Technology and Ecosystem Restoration	
15:45 - 15:50	Welcome and Framing
15:50 - 16:05	Keynote: From Concept to Catchment: Technology-Driven Nature-Based Solutions <ul style="list-style-type: none"> • Dr Maryam Imani, Associate Professor of Water Systems Engineering, School of Engineering & the Built Environment, Anglia Ruskin University
16:05 - 16:15	Start-up Pitches x2 <ul style="list-style-type: none"> • Dr Giovanni Bandi, Co-founder and Chief Product Officer, Biomet.life
16:15 - 16:50	Panel: Policy and Implementation, Innovation in Nbs, Land & Building Management, Investment Potential <ul style="list-style-type: none"> • Chair: Pete Nisbet, Managing Partner, edenseven • Kyle Gray, Senior Sustainability Manager, The Crown Estate • Peter Bachmann, Managing Director, Sustainable Infrastructure, Gresham House
16:50 - 17:00	Audience Q&A
17:00 - 17:15	Closing Keynote <ul style="list-style-type: none"> • Professor Emily Shuckburgh, Director, Cambridge Zero / Professor of Environmental Data Science, University of Cambridge

Scoping Collaborative Catchment-Based Research with a Focus on Nature-Based Solutions

This workshop brought together a wide range of stakeholders—including representatives from local authorities, water companies, the Environment Agency, Rivers Trusts, and members of the Farmers’ Union—to explore partnership opportunities for catchment-based research. The session focused on how Nature-Based Solutions (NBS), supported by advanced technologies and AI, can be leveraged to address regional challenges such as flooding, water pollution, habitat degradation, and climate-related risks. The event created an open forum for discussing shared priorities, identifying data and knowledge gaps, and shaping collaborative pathways for future NBS research and implementation. AI4MultiGIS approach and the scope and in particular Pilot 1 was shared for future discussion and possibility of testing and validation.

5 Project Publications and KPIs

A total of 10 publications at this stage of the project resulted from the project, comprising 5 journal articles and 5 conference papers.

Journals

- Shareeful Islam, Nihala Basheer, Spyridon Papastergiou, Mario Ciampi & Stefano Silvestri Journal of Reliable Intelligent Environments , Springer. Intelligent dynamic cybersecurity risk management framework with explainability and interpretability of AI models for enhancing security and resilience of digital infrastructure <https://doi.org/10.1007/s40860-025-00253-3> , <https://link.springer.com/article/10.1007/s40860-025-00253-3#citeas>
- Zhuoqian Wu, Shareeful Islam, and Llewellyn Tang, , Visualizing ESG Performance in an Integrated GIS–BIM–IoT Platform for Strategic Urban Planning, <https://doi.org/10.3390/buildings15183394> , Building, MDPI, 2025
- Maher Jabberi, Akram Hakiri , Bassem Sellami , Adel M. Alimi, Next-Gen IoT localization: When quantum-SSA-Markov hybridization meets energy efficiency for robust, accurate, and sustainable positioning in smart environments <https://doi.org/10.1016/j.comnet.2025.111826>, Computer Networks, Volume 274, 2025
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AI4MultiGIS's Disseminations Activities & KPIs

Channels	Target Audience	Activity Measure	KPIs	Status
Project Website	Scientific Community, Citizens, Academics, Researchers. Pilot case study users	Contain activities related to the project, disseminate findings in terms of publications and blogs.	≥ 9 blogs; ≥50 visitor per month	Website is live and report the outcomes and results of the project with 4 blogs. 10 visitors per month
Publications	Researchers, Scientific Community, Pilot case study users	Publications in leading journals, special issues, and international conferences	≥ 10 peer-reviewed journal publications and conference publications with targeted venues such as target venues,	05 Journals 05 Conferences
International events	Scientific community, Researchers, industrial experts, public and private organisations, policy makers	Workshops, CHIST-ERA focused events, Technical, Academic, Industrial events, Pilot case study evaluation report	≥3 workshops, ≥4 webinars / events ≥5 Project output specific presentations	04 workshops 02 Webinars 02 Project output specific outputs
Networking / Outreach	All	Interactive Networking, Collaboration with other projects & initiatives	≥4 EU networking events; ≥3 Industry exhibitions/summits; ≥2 synergies established with Open Geographical Consortium (OGC)	1 consortium
Social Media Channel	Citizens, researchers, policymakers,	Existing social media channels from the partner will	≥ 20 posts altogether in LinkedIn and Twitter;	05

	public and private organisations	be used as new social media channels take time to get followers.	≥20 re-tweets for each post		
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6 Conclusion

This deliverable detailed the dissemination and communication plan conducted from M01 to M15 of the AI4MultiGUIs project. The activities are executed through various channels including project's websites, social media, and workshops. A total of 10 publications is reported throughout this duration and 5 workshops were participated to disseminate the project outcomes. The second iteration of this plan will enhance with more dissemination and communication activities of the project.