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FOURIER

InnOvative ArtiFicial IntelligencE methodologIes for monitoRing and maintaining large scale complex infrastrUctures and obtaining greener, more Resilient and smart societies

D4.2 FOURIER website update and first set of dissemination materials

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Acronyms and Abbreviations

Acronym/Abbreviation	Meaning
AI	Artificial Intelligence
CI	Critical Infrastructure
DC	Doctoral Candidates
MOOC	Massive Open Online Course
WP	Work Package

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1 Executive summary

The FOURIER Project (No. 101169429), funded by Marie Skłodowska-Curie Actions, brings together 21 partners from academia, industry, and key stakeholders to advance digital inspection and smart infrastructure management. Combining expertise in civil engineering, computer science, sensing technologies, emergency management, social sciences, and applied mathematics, the project aims to transform monitoring and management of critical infrastructure (CI).

FOURIER supports 15 PhD research projects across 8 European countries, with secondments in Italy, The Netherlands, Austria, Germany, Portugal, Croatia, Greece, and Switzerland, providing interdisciplinary training and practical, cross-sector experience.

This deliverable, part of Work Package 4 (WP4), presents the development and organization of the FOURIER project website and first set of dissemination materials. It details the website's structure, key functionalities, and core features, emphasizing its role as a central hub for information sharing, engagement, and showcasing project activities. Overall, the website serves as a platform to enhance collaboration, visibility, and communication among the project's diverse partners and audiences. The activities on other social networks is also presented.

2 Introduction

This deliverable presents the development of the FOURIER project website, which acts as a central platform for sharing project-related information. The site is intended to inform visitors about the doctoral positions and to promote upcoming events such as summer and winter schools, workshops, industrial days, conferences, and interactions with infrastructure operators and policymakers.
The platform also emphasizes the project's focus on multidisciplinary training, supporting skill development, knowledge exchange, and collaboration across sectors. The website will showcase the project's Massive Open Online Course (MOOC) and highlight the role of climate resilience in sustainable critical infrastructure, while fostering an informed and active community of practitioners.
Throughout the project, the website will be regularly updated and improved to ensure content remains relevant and accessible to a wide audience. It will provide a public repository of the project's outputs, including journal publications, lecture notes, video courses, and conference materials, serving as an open resource for knowledge sharing within and beyond the FOURIER network.

3 FOURIER Website

The FOURIER website (https://fourier-msca.eu) serves as a central platform for collecting and sharing the most relevant information about the project, including its goals, structure, key activities, public deliverables and publications. It is designed to ensure ongoing visibility and engagement throughout the project's lifetime and will be continuously updated with news and contributions from members of the Consortium.

3.1 Website structure and content

The website is managed by Infra Plan Consulting, a partner who participates in Work Package 4 (WP4), and plays a key role in the project's communication and dissemination strategy.
The current version of the website consists of the following eight sections as pages:

1. Home
2. About Us
3. Research
4. Partners
5. People
6. News
7. Results
8. Contact

The following subsections provide a more detailed overview of each web section that has been updated since Deliverable 4.1. Selected screenshots are included to illustrate the structure and design of these modified sections.

3.1.1 Home

The Home page of the FOURIER website is designed to immediately convey the core essence of the project: AI-driven innovation in critical infrastructure. It features the project logo, which also serves as a clickable link back to the homepage, and a top navigation menu that provides access to the website's eight main sections. The page offers a clear and engaging introduction to the project, presenting its vision, key objectives, and funding support from the Marie Skłodowska-Curie Actions. With a mix of visual elements and concise summaries of current activities, the homepage acts as a dynamic starting point for visitors and ensures quick access to news and updates.

In contrast to the initial project interface, the OPEN POSITION section has been removed. This section previously contained a Google Form in which candidates expressed their interest by indicating which projects they were most interested in, selecting up to three projects that best matched their expertise and professional background.

Since all candidates have now been recruited and all positions have been filled, this section is no longer required and has therefore been deactivated.

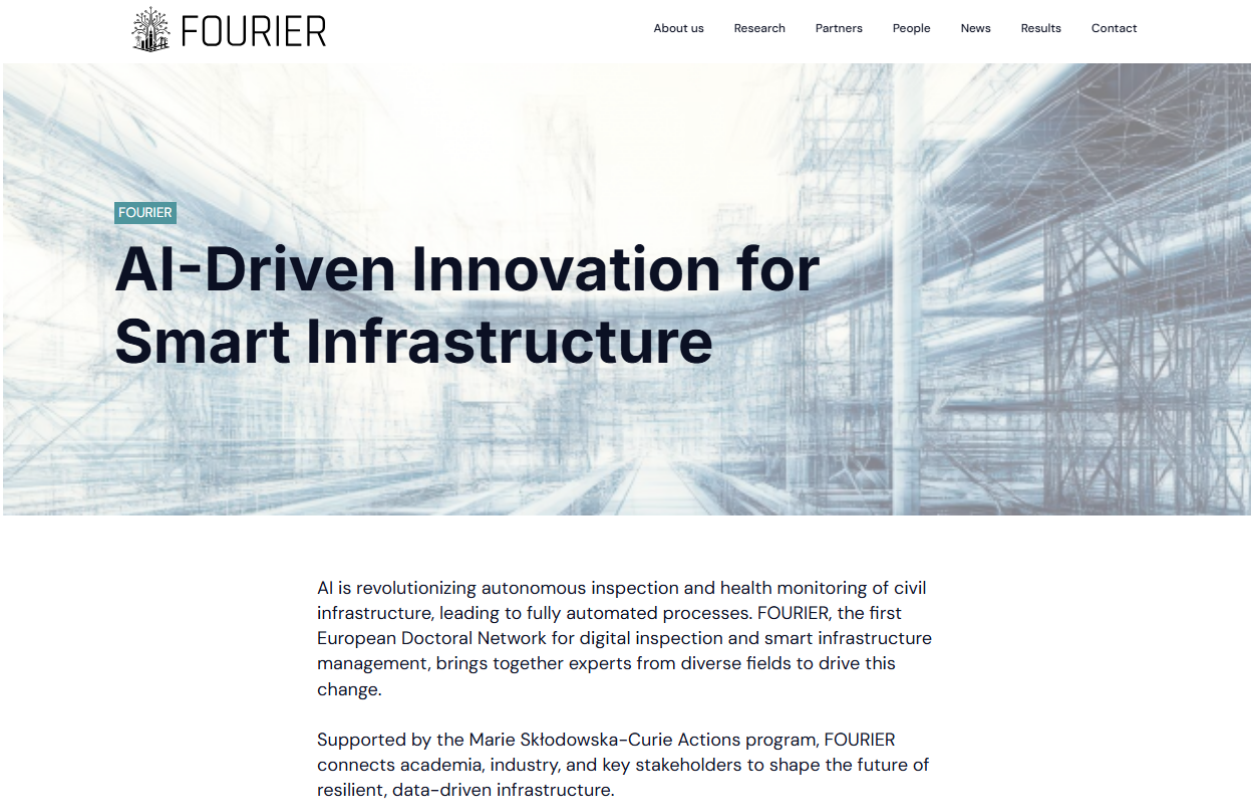

Figure 3-1 FOURIER Welcome Page

The main objectives of the project are clearly and concisely communicated further down the page, including the project objectives, research objectives, and training objectives. As described in Deliverable 4.1, no changes have been made to this part of the website.

Towards the end of the page, consortium members are presented through their logos, organized into Beneficiaries and Associated Partners (Figure 3-2). Each logo is clickable, directing users to the respective official website. Two new Associated Partner logos have also been added to the project.

Figure 3-2 FOURIER consortium logos with two new Associated Partners

At the bottom of the page, a News section highlights the latest updates, including announcements, upcoming events, and ongoing project activities, displaying the three most recent news items.

3.1.2 Research

The Research page presents the scientific and technical focus of the FOURIER project, highlighting core research themes and the interconnections between the 15 doctoral projects (DCs), emphasizing its multidisciplinary approach. The page is divided into three subsections, with the first subsection providing an overview of the research objectives and expected outcomes. As described in Deliverable 4.1, no changes have been made to this part of the page.

The second subsection presents all doctoral research topics (DC1–DC15) offered within the FOURIER project, listed by title and linked to detailed descriptions. The third subsection provides further details for each topic, including a summary, host institution, supervisors, research objectives, and information on planned secondments. Once a doctoral candidate was recruited, each position was clearly marked as closed (Figure 3-3).

Topics:

DC 1 Artificial Intelligence for State Evaluation of Socio-Physical Systems
DC 2 Enhancing Infrastructure Inspection with Non-Contact Sensing, Multi-Modal Deep Learning, and AR Wearable Devices
DC 3 Automated Data Collection for Progressive Collapse Analysis of Communities and Infrastructures Using UAVs
DC 4 Optimal Predictive Maintenance Planning of Geotechnical Systems Based on Explainable AI
DC 5 Super-Resolution Techniques to Enhance Low-Resolution Metering and Inspection Data
DC 6 Training AI Health Monitoring Algorithms Using Large-Scale Synthetic Data
DC 7 Artificial Intelligence Methods for Solving Inverse Problems and Digital Twin Updating
DC 8 Probabilistic Digital Twin and Spatial Data Modeling for Community-Level Risk Management
DC 9 Integrated Big Data Processing and Management of Long-Term Monitoring
DC 10 Decision Support Tool for Resilient Communities Using the Social Dimension
DC 11 Uncertainty in Multi-Fidelity Digital Twins for Infrastructure Management
DC 12 Causal Inference for Resilience Quantification of Critical Infrastructure Networks
DC 13 Automated Hierarchical Hidden Markov Modelling (HMM) for Power Network Components
DC 14 Social-Driven Inspection Digital Tools
DC 15 Decision Optimization for the Management of Risks, Robustness, and Resilience in Transportation Networks

DC 1 ARTIFICIAL INTELLIGENCE FOR STATE EVALUATION OF SOCIO-PHYSICAL SYSTEMS

CLOSED

Hosting institution: Delft University of Technology (TU Delft)

Supervisors: M. Nogal (TU Delft), P. Clemente (ENEA)

Objectives: Develop ASI technologies for autonomous inspection and system monitoring using AI algorithms for remote control and automated data processing in advanced inspection systems.

Description: The development of AI has three stages: artificial narrow intelligence (ANI), artificial general intelligence (AGI), and artificial super intelligence (ASI). ANI is less intelligent than humans and requires intervention. AGI matches human intelligence and operates independently. ASI surpasses human intelligence, performing tasks beyond human capability. This PhD thesis aims to develop ASI-level computational models for damage detection, structural health assessment, and predictive analysis. ML methods will be proposed for model updating, diagnostics, and data interpretation in structural health monitoring (SHM) systems. AI-based SHM methods, like those from the University of Texas at Arlington, use sensors to assess bridge health. Modern infrastructures incorporate weight-in-motion systems with sensors measuring vibrations, strains, and deflections. By analyzing these responses, they estimate vehicle weights and their impact on structural integrity. ML techniques refine load parameters and provide a clearer structural assessment, helping prevent failures like the 2018 Ponte Morandi collapse. An IoT-based SHM system can also detect damage and monitor structural behavior.

Secondments: National Agency for New Technologies, Energy and Sustainable Economic Development-ENEA (IT), Veiligheidsregio Utrecht (NL)

Figure 3-3 Second and third RESEARCH sections presenting the list of PhD positions and their detailed descriptions, with closed positions clearly indicated

3.1.3 Partners

This section presents an overview of the academic and industrial partners in the consortium, as shown in Figure 3-2, including a short description (as shown in Figure 3-4), official logo, and a link to each partner's website. It highlights the project's intersectoral collaboration across universities, research institutions, industry, and public bodies. Recent updates include the addition of two new Associated Partners, JRC-Ispra and Deltares, as illustrated in Figure 3-5.

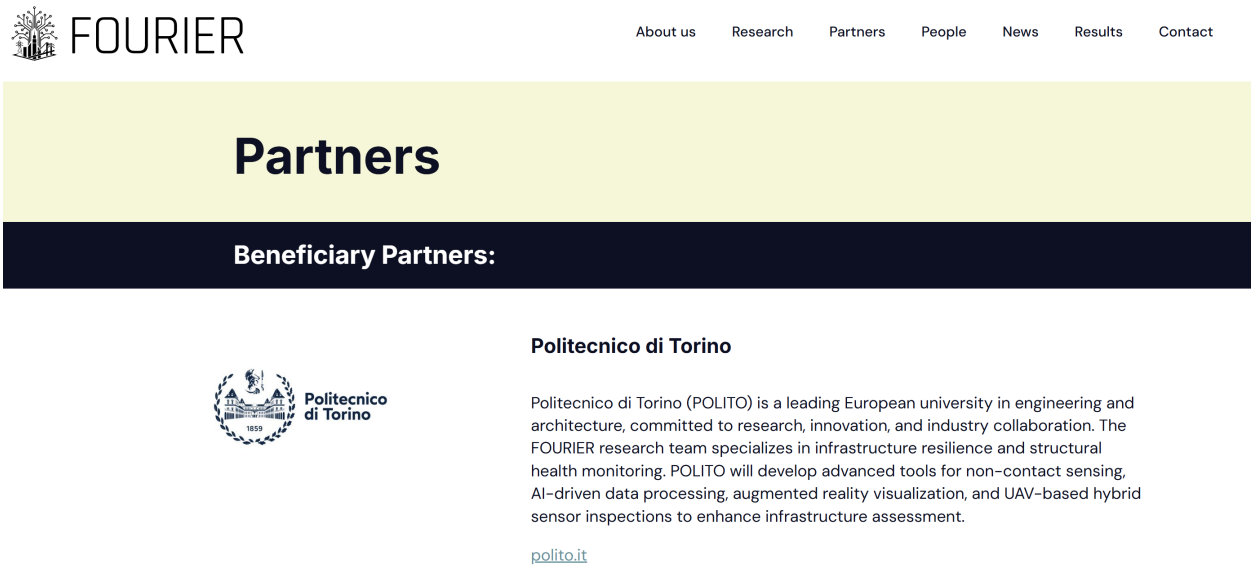

Figure 3-4 Example of Partner's description

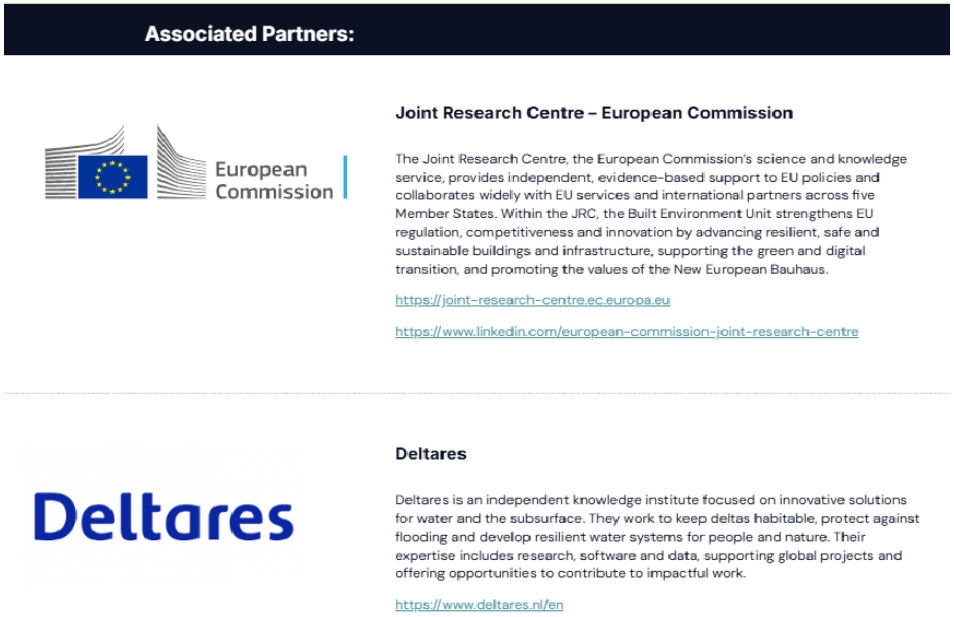

Figure 3-5 Updated partners page including new Associated Partners

3.1.4 People

The People section was designed to present the doctoral candidates part of the project, showcasing them as they were recruited and as they submitted their short bios for publication, see Figure 3-6. This section highlights their roles and contributions to the research and development activities, while also providing insight into their professional backgrounds and areas of expertise. The supervisors of the candidates will be introduced gradually over time, ensuring that the section evolves to fully represent all key project members and their contributions to the project's objectives.

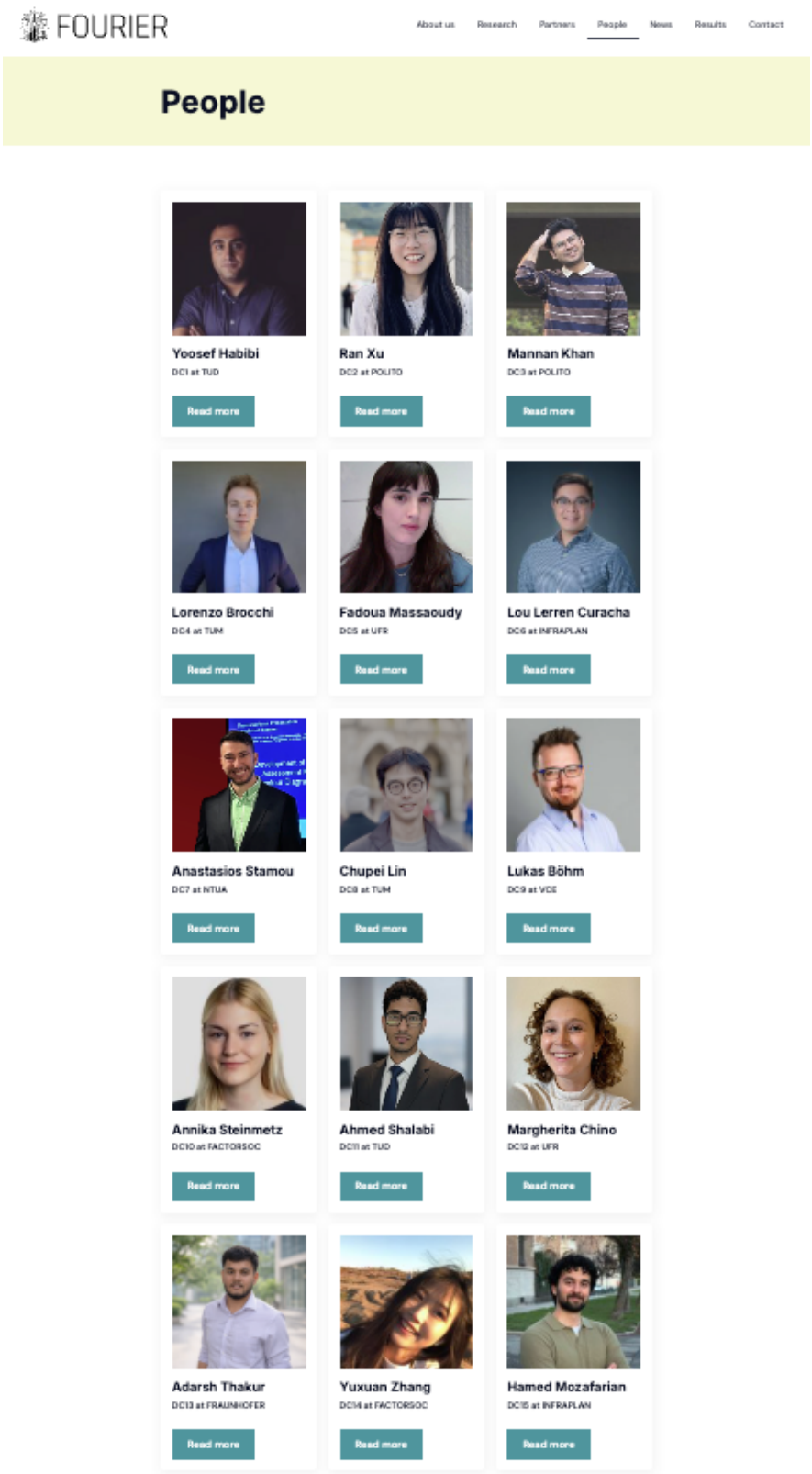

Figure 3-6 Published doctoral candidates currently part of the FOURIER doctoral network.

3.1.5 News

This section informs visitors about the latest developments of the FOURIER project, including consortium meetings, workshops, project progress, and newsletter releases. The News section (Figure 3-7) is regularly updated with announcements, event highlights, detailed information on newly appointed doctoral candidates, and other key updates related to the project's development, ensuring clear communication with both internal and external audiences.

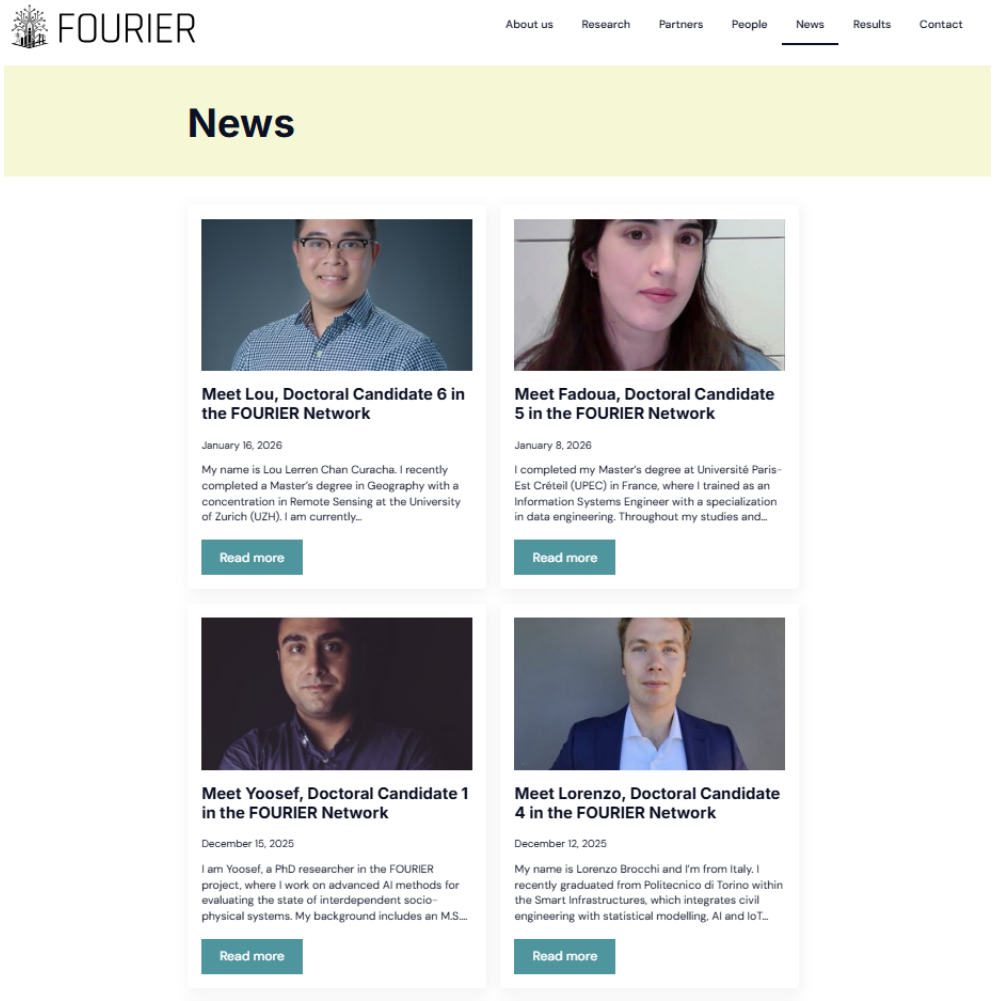

Figure 3-7 Regularly updated News section

3.1.6 Results

The Results page (Figure 3-8) is organized into three sections showcasing the project's public deliverables, including publications, presentations, posters, and training materials such as lecture notes and video courses. The publication of these public deliverables has already begun. The page will also host the upcoming MOOC and newsletter, with more updates expected as the project progresses and doctoral results become available.

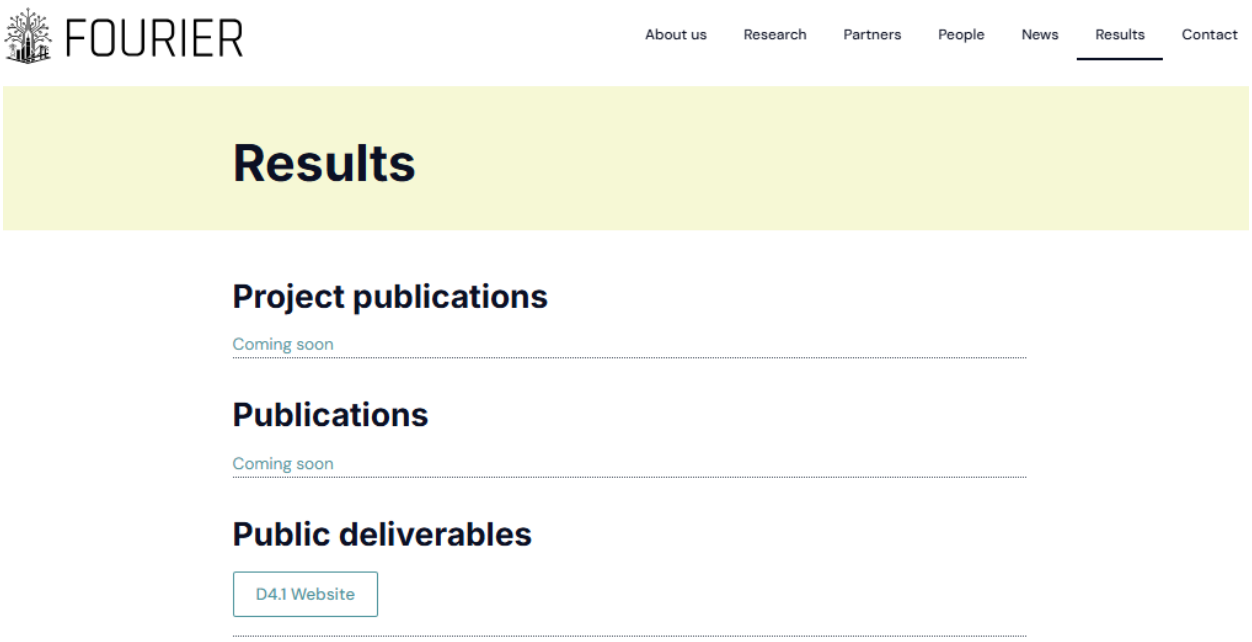

Figure 3-8 Results page featuring newly released publications

3.1.7 Banner

Each page of the FOURIER project website features a footer banner with key elements supporting navigation and project visibility. It displays the project logo linking to the homepage, the EU flag, and the official funding acknowledgment. A social media button has also been added to provide easier access to project updates and enhance communication with a broader audience.

Figure 3-9 Footer banner with newly added social media button

4 Communication and Dissemination Activities Across Digital Media and Analytics

4.1 Project Website and Performance Overview

The FOURIER website serves as the central digital platform for project communication and dissemination, acting as a public-facing interface and a structured access point to key project outputs and related communities. Initially launched with core information on the project's objectives and consortium, the website has been expanded to include detailed descriptions of the doctoral research projects and information on the recruited doctoral candidates.

The website follows a clear and intuitive navigation structure, guiding users from general project overviews to more specialized content, with internal links to relevant news, publications, and public deliverables. Content is updated regularly to reflect project progress and key milestones, while open-access scientific outputs are made available where possible.

In addition, the website will provide access to the e-newsletter and contact information for interested stakeholders. Technically, the website is fully responsive and integrated with social media platform to support content sharing, while website analytics are periodically reviewed to inform ongoing communication and dissemination activities.

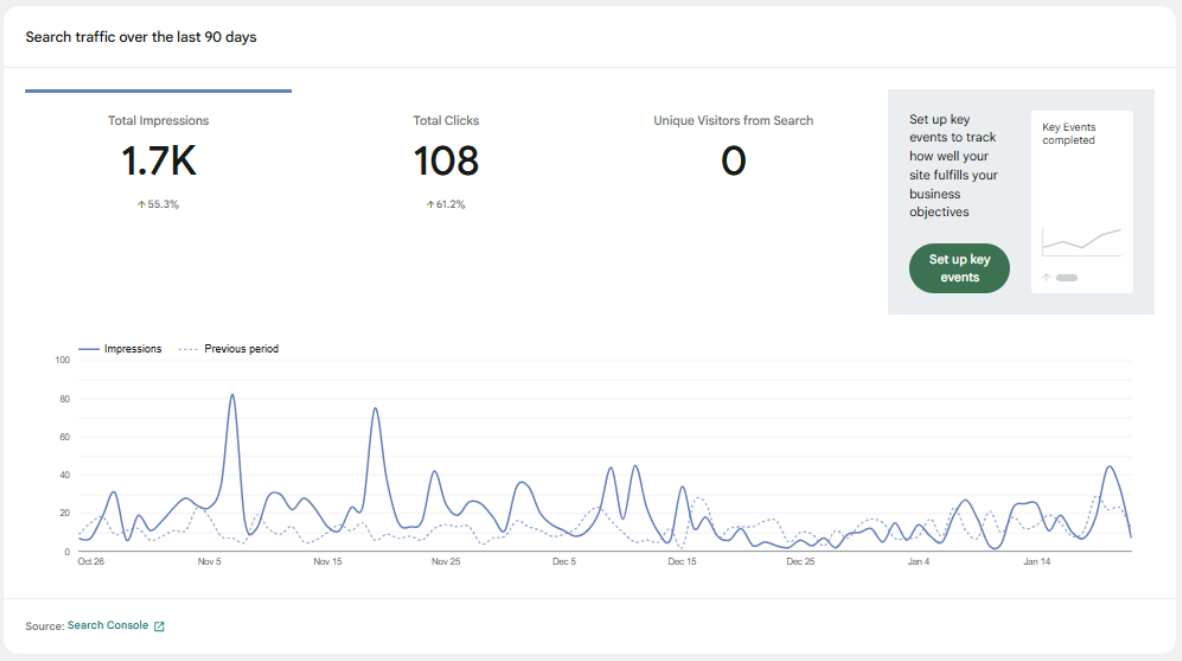

Figure 4-1 FOURIER Website Insights

According to data from the Google Site Kit plugin, the website recorded a total of 1,700 impressions and 108 clicks over the past 90 days, as shown in Figure 4-1.

These metrics indicate the website's visibility and user engagement during this period. While impressions show the number of times the site appeared in search results, clicks reflect actual user interaction. The data suggests that the website has a moderate reach, and there is potential to improve engagement through targeted content and enhanced user experience. Monitoring these metrics over time will help evaluate the impact of such improvements and guide future digital outreach strategies.

4.2 Social Media and Accounts

4.2.1 LinkedIn Account

LinkedIn is a key communication channel for disseminating professional and scientific content and for engaging with stakeholders active in research, innovation, and industry. The FOURIER LinkedIn page (see Figure 4-2) primarily targets the project's scientific and technical community, as well as companies, academics, and students. It serves as a link between the more static information presented on the project website and a broader professional audience that regularly follows developments in artificial intelligence, autonomous inspection technologies, and civil infrastructure health monitoring.

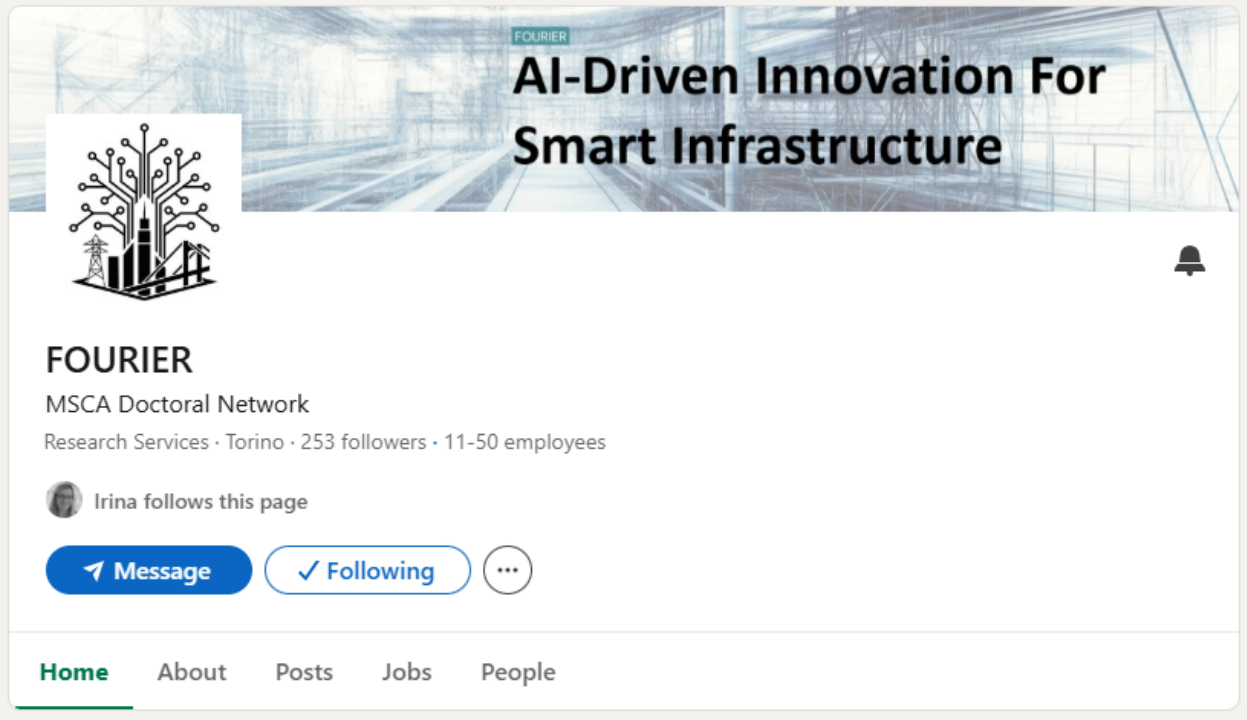

Figure 4-2 FOURIER LinkedIn account

The LinkedIn page is used to share in-depth and professionally oriented content, complementing the website by providing contextualized insights into project results, ongoing research activities, and participation in conferences and workshops. In addition, dissemination is amplified through the active support of project partners, who regularly share FOURIER content via their institutional pages and personal profiles. This collaborative approach extends the project's reach to new audiences across research, industry, and other interested stakeholders, reinforcing LinkedIn as a central platform for the project's professional visibility and outreach.

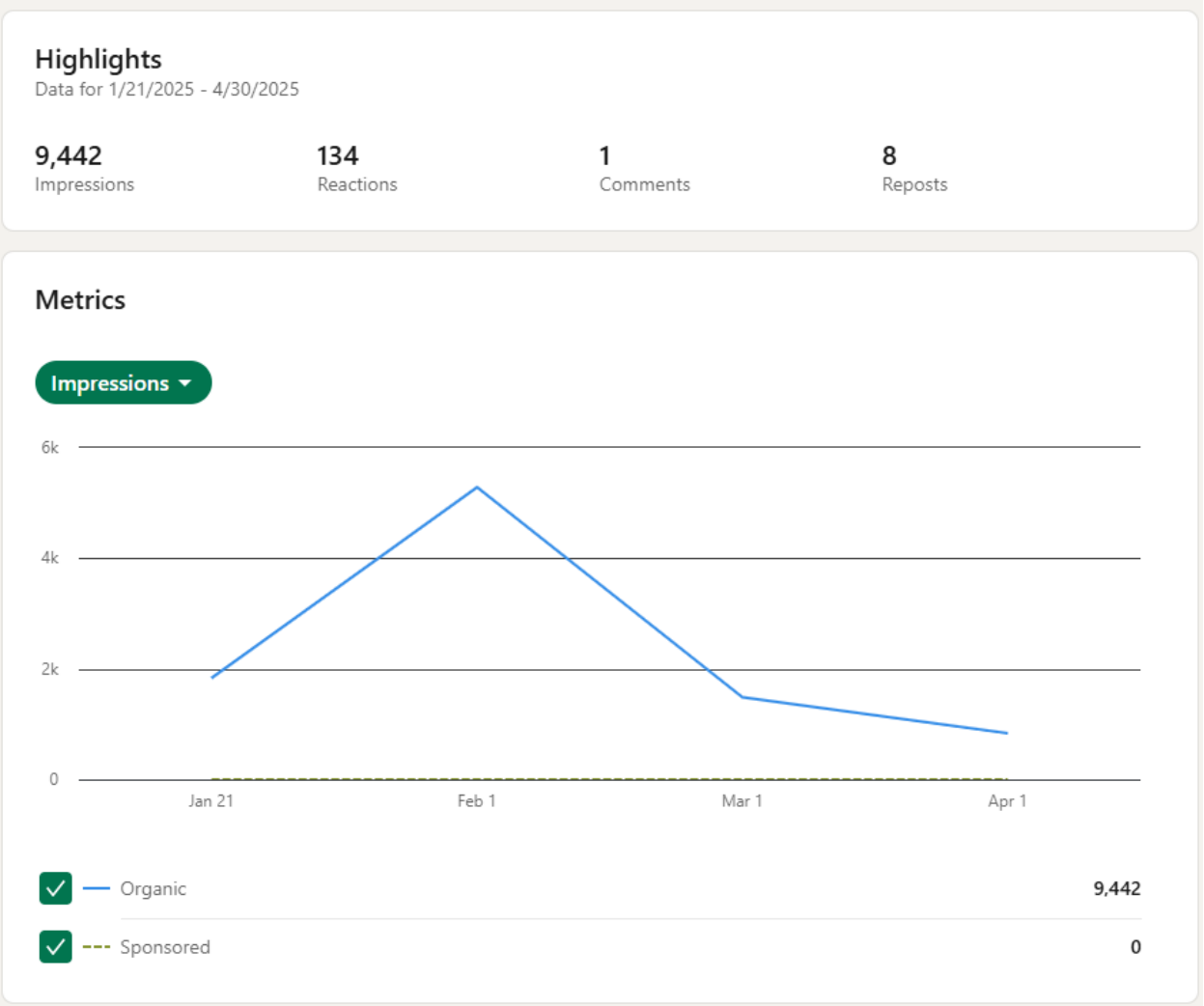

Figure 4-3 LinkedIn Insights

During the first half of 2025, LinkedIn analytics (Figure 4-3) indicate that posts published on the FOURIER page generated a total of 9,442 impressions, with 134 user interactions recorded during the same period. All impressions were achieved organically, as no paid or sponsored campaigns were implemented. Visibility was therefore driven by regular content

publishing, partner engagement through sharing, and the intrinsic interest of the professional audience.

The impressions trend over this period shows distinct peaks corresponding to phases of increased project activity, particularly during the publication of doctoral position announcements. In the subsequent months, impressions stabilized as the project progressed from the recruitment phase into the interview and selection process, during which dissemination activities were more internally focused across beneficiary partners.

5 Conclusion

The FOURIER website functions as the main digital platform for communicating information on the project's activities, progress, and emerging results to a wide range of audiences, including the general public, the academic community, and relevant stakeholders. Designed to enhance visibility and ensure easy access to project-related content, the website represents a key instrument for structured communication and dissemination.

As the project continues to develop, the website is being progressively updated and expanded. Notably, new sections have been added to present the doctoral candidates involved in the project ("People") and to share timely updates on project events and developments through the "News" section. These additions strengthen the connection between the project and its audiences by highlighting both the people behind the research and the ongoing activities of the consortium.

Overall, the website provides a flexible and evolving communication space that supports transparency and broad dissemination, while enabling the project to share its outcomes and milestones in a clear and accessible manner.