D6.1 Project website and social media presence

Document Summary Information

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V0.4	24/01/2025	100	Final Version	Christos Skoufis (EBOS)

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Glossary of terms and abbreviations

Abbreviation / Term	Description
GA	Grant Agreement
GDPR	EU General Data Protection Regulation
GUI	Graphical User Interface
KPI	Key Performance Indicator
KOM	Kick Off Meeting
M	Month (Project Month)
PoC	Proof of Concept
PU	Public (Dissemination Level)
T	Task (Project Task)
WP	Work Package

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1 Executive Summary

The current document provides a detailed description and analysis of the project's website and social media accounts, which can be considered the project's online presence. The description and analysis include the methodology behind designing and implementing a dynamic, modern, and user-friendly website with multi-browser and multi-device compatibility. The first version of the website is ready and publicly available at http://www.flecon6g.eu/. In addition, the website's administration is described in this document, and Google Analytics presents the website's traffic.

Access to social media accounts is also provided in this document. LinkedIn X and YouTube accounts have already been set up and are accessible via the following links and the project website.

- https://x.com/Flecon6G
- https://flecon6g.eu/flecon-6g-project-kick-off-meeting/
- https://www.youtube.com/@FLECON-6G

The content of the website and the social media accounts will be continuously updated with dissemination (i.e. meetings, publications, results, etc.) and communication (leaflets, brochures, etc.) material until the completion of the Project.

All the above-mentioned links to access the online Project presence were already provided to the Consortium during the Kick-off Meeting (KoM), which took place in Barcelona on January 14, 2025.

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2 Introduction

The deliverable "D6.1 Project website and social media presence" of the FLECON-6G project is part of Task T6.1 "Dissemination and communication activities." It refers to the construction and publication of the project's official website and the setup of other social media channels, such as LinkedIn, X, and YouTube.

The deliverable is important since it marks the "online" dissemination activity from an early stage and the initial web presence and visibility of the FLECON-6G project. The first website version was updated during M1 (January 2025) and will be continuously updated until the end of the project.

2.1 Mapping FLECON-6G Outputs

This section aims to map FLECON-6G's Grant Agreement commitments, within the formal Deliverable and Task description, against the project's respective outputs and work performed.

Table 1: Adherence to FLECON-6G's GA Deliverable & Tasks Descriptions

FLECON-6G GA Task No. and Title	FLECON-6G GA Task Description	Respective Document Chapter(s)	Justification
Task T6.1 – Dissemination and communication and capacity building	As far as communication is concerned, this task will ensure the creation and constant update of all web-based communication means, including the FLECON-6G website and social media channels (from M1 developed by EBOS).	Chapter 3	The methodology followed during the website design and implementation, administration, and Google Analytics. Descriptions and screenshots from a selection of the Project's website pages.
		Chapter 4	Description and screenshots from the Project's social media channels.
		Annex 1	Screenshots from all the pages of the Project's website.
		Annex 2	Screenshots from the promotional material currently prepared (rollup banner, leaflet and poster).
Deliverable Description			
D6.1 - Project website and social media presence Project website and social media channels established			

2.2 Deliverable Overview and Report Structure

Based on the objectives and work carried out under task T6.1, the document starts with Chapter 1, the Executive Summary, followed by the document's introduction in Chapter 2. Chapter 3 extensively describes the project's website, including each page's development methodology, content and screenshots from the website's home page. Chapter 3 also provides some Google Analytics results for the website and describes how the website administration can be performed (i.e., update content, add-remove pages, etc.). Chapter 4 includes the relevant

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information about the project's social media channels (LinkedIn[1], X[2] and YouTube[3]), and Chapter 5 presents the conclusions. Finally, Annex 1 provides screenshots of all the website pages and Annex 2 from the promotional material already designed for the project (rollup banner, leaflet and poster).

[1] https://www.linkedin.com/
[2] https://x.com/Flecon6G
[3] https://www.youtube.com/@FLECON-6G

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3 Project's Website

This Chapter describes in detail the FLECON-6G website, developed to serve as the project's public presence. It utilises the latest technology to deliver content-rich information to its visitors. The FLECON-6G website is part of the dissemination activities undertaken for this project. The Project website can be accessed using the following internet address: http://www.flecon6g.eu/.

3.1 Methodology for website construction and development

The design and implementation of the FLECON-6G official website prioritise user interface design principles and an optimal user experience. The user interface leverages the latest technologies to ensure compatibility across multiple browsers and devices. The website is fully responsive and user-friendly, providing a seamless experience and delivering content-rich information to visitors. Users can easily access the FLECON-6G website on smartphones, tablets, desktop PCs, or laptops and navigate content effortlessly. The user-centred design and implementation processes ensure an efficient and intuitive interface.

Furthermore, the following GUI Design Principles[4] Were adapted in FLECON-6G website interface design and implementation:

- **Clarity**: The interface is visually appealing, conceptually straightforward, and linguistically precise.
- **Comprehensibility**: The interface is intuitive, easy to understand, and quick to master.
- **Consistency**: The interface maintains a uniform appearance, behaviour, and operation.
- **Control**: Users have complete control over interactions:
    - Explicit user requests initiate actions.
    - Operations are performed promptly.
    - Users can interrupt or terminate actions as needed.
    - Errors do not disrupt the user experience.
- **Efficiency**:
    - Minimize unnecessary eye and hand movements.
    - Ensure smooth transitions between system controls.
    - Keep navigation paths short and straightforward.
    - Prevent users from losing their work due to errors.
- **Simplicity**:
    - Design the interface to be as simple as possible.
    - Prioritize common actions for simplicity, even if it makes less common actions more complex.
    - Maintain uniformity and consistency across the interface.

Technologies of HTML5[5], CSS3[6] and JavaScript[7] Adopted during the implementation of the FLECON-6G interface to archive the responsive result, cross-browser and multi-device compatibility. Figure 1 below presents what the website looks like when using a smartphone.

[4] https://en.wikibooks.org/wiki/GUI_Design_Principles
[5] https://www.w3schools.com/html/html5_intro.asp
[6] https://www.w3schools.com/css/css3_intro.asp
[7] https://www.w3schools.com/js/

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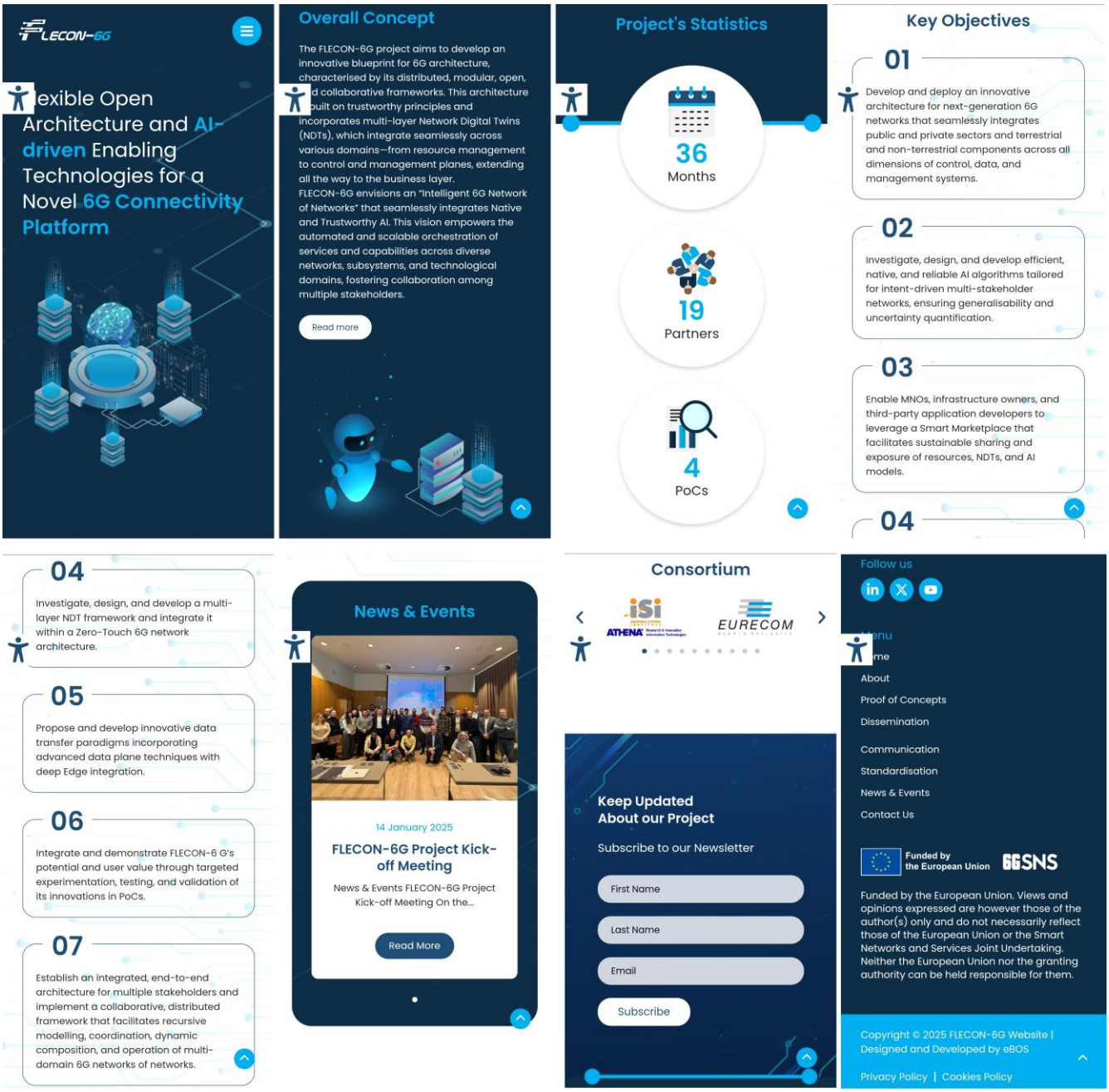

Figure 1: FLECON-6G Website – Smartphone View

3.2 Website content and screenshots

The following Figure 2 presents the website structure of the initial working version of the FLECON-6G website in a diagram.

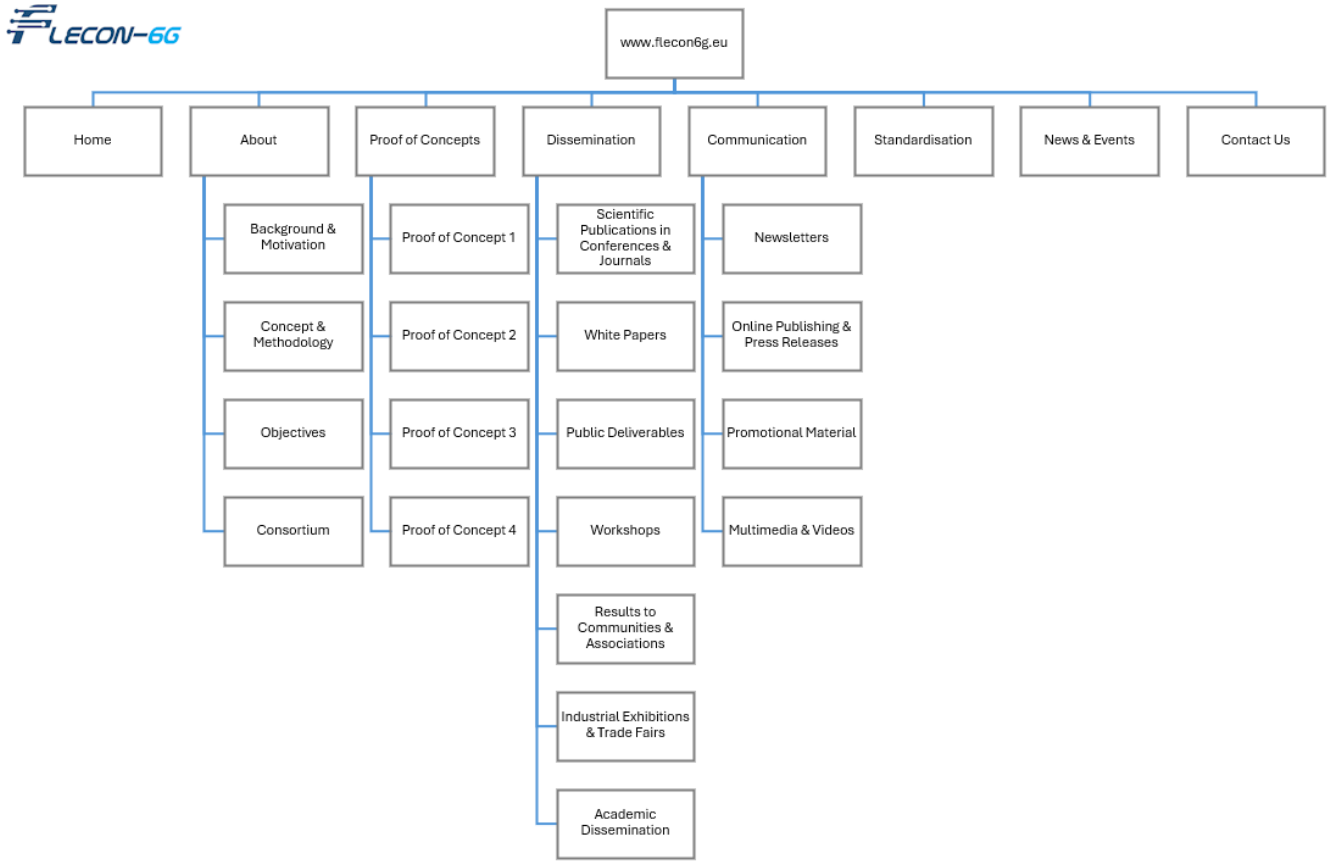

Figure 2: FLECON-6G Website Structure

The FLECON-6 G website's “Home” page is the initial landing page that loads when users access the site through a web browser. Figures 3 to 5 below provide screenshots illustrating the design and layout of the “Home” page.

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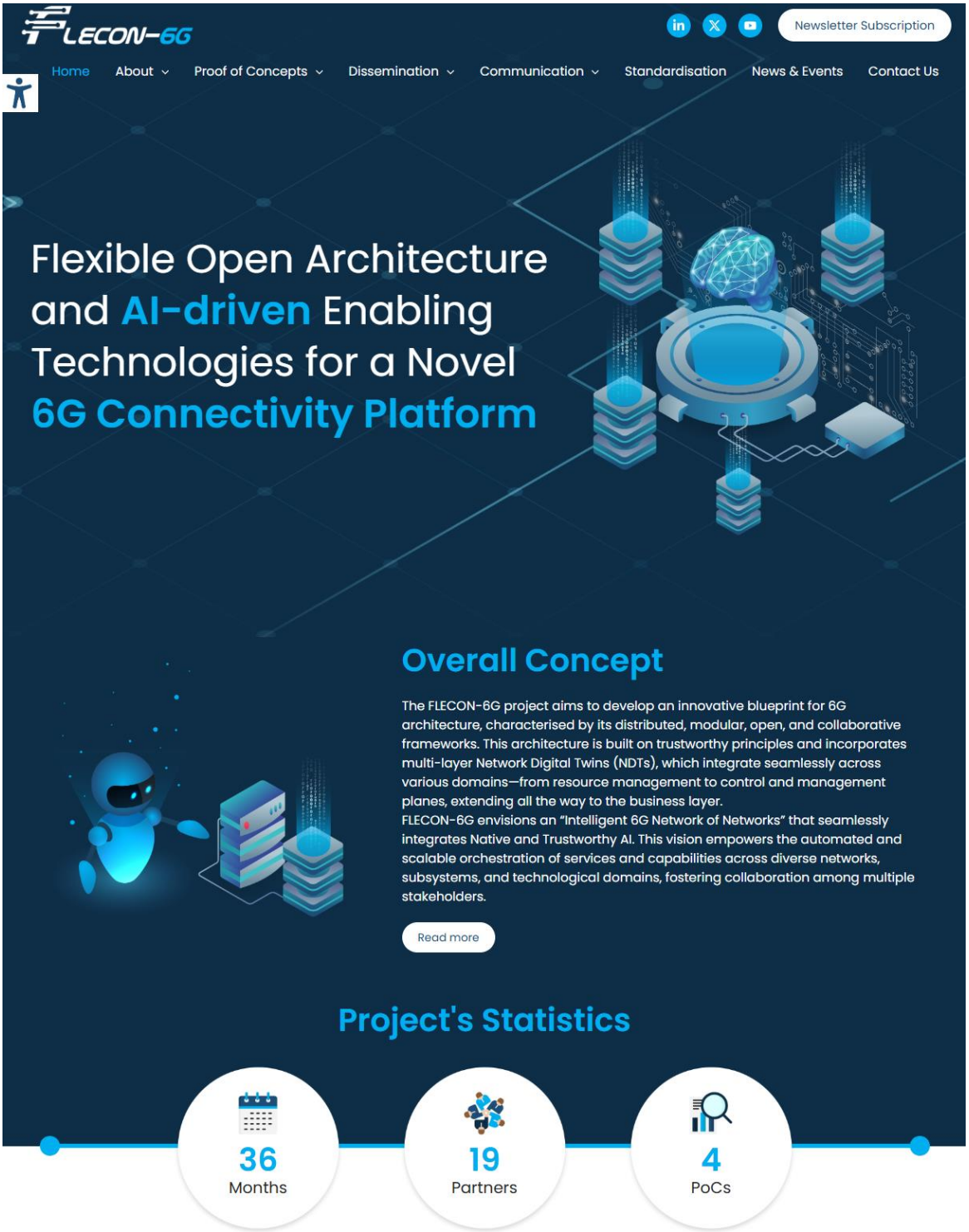

Figure 3: FLECON-6G Website – Home Page 1/3

Figure 4: FLECON-6G Website – Home Page 2/3

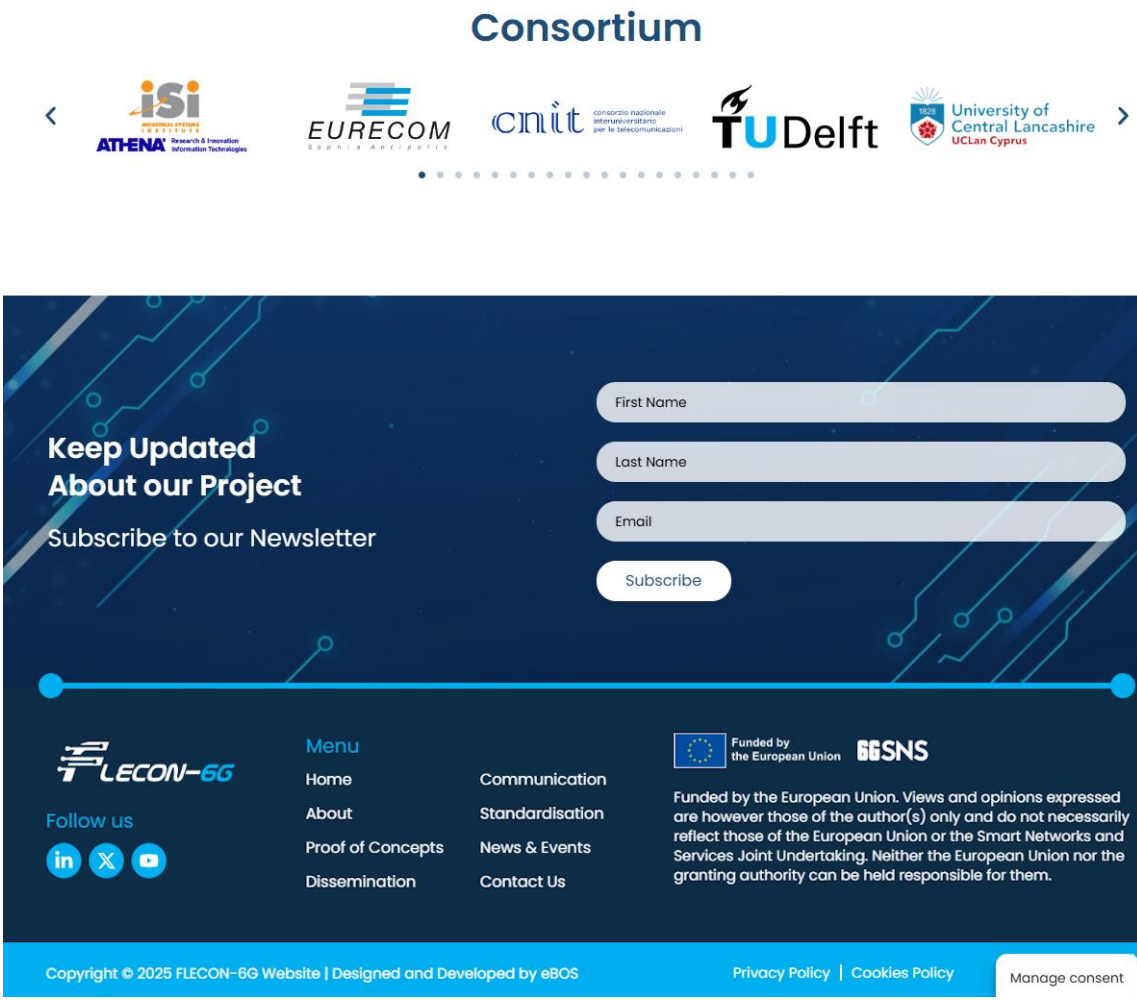

Figure 5: FLECON-6G Website – Home Page 3/3

As shown in the figures above, the "Home" page contains links to all FLECON-6G Project social media platforms, including LinkedIn, YouTube, and X. The header has been designed for seamless navigation and remains accessible from all website pages. It prominently displays the project logo, which serves as a clickable link that redirects users to the home page.

The "Home" page also includes a background image aligned with the project's objectives and a central button inviting visitors to explore more information. Below this, the page highlights key sections such as the project's objectives, statistics, the latest news and events, consortium partners, and a subscription area for the project newsletter.

Accessibility features, shown in the figure below, are incorporated through dedicated icons designed to enhance usability for individuals with disabilities, including visual or cognitive impairments, ensuring the website is inclusive and user-friendly.

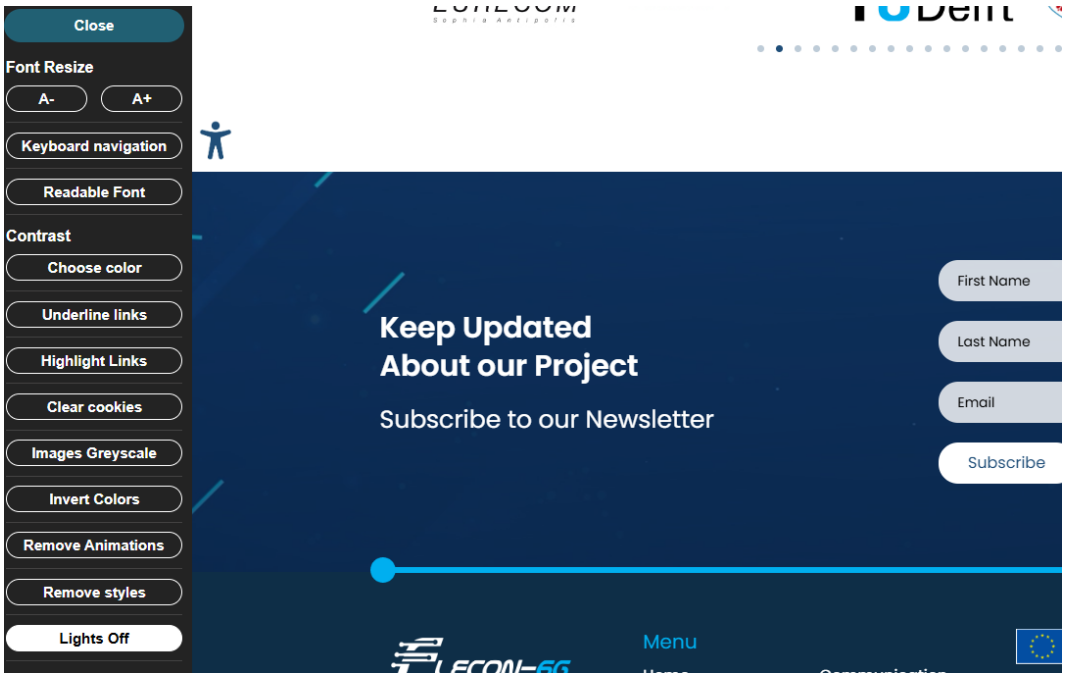

Figure 6: FLECON-6G Website – Accessibility Options

Screenshots from the rest of the pages (as listed in the diagram of Figure 2) can be found in Annex 1, "Project's Website Pages." These pages present information about the Project (e.g., consortium, objectives, etc.), dissemination and communication material (e.g., public deliverables, promotional material, newsletters, etc.), news and events, and contact information.

An "Accept Cookies" option is also available when loading the website for the first time, and options can be modified anytime. The privacy and cookies policy is aligned with the General Data Protection Regulation (GDPR), is publicly available at the following URLs, and is accessible from the Home page.

- Privacy Policy: https://flecon6g.eu/privacy-policy/
- Cookies Policy: https://flecon6g.eu/cookies-policy/

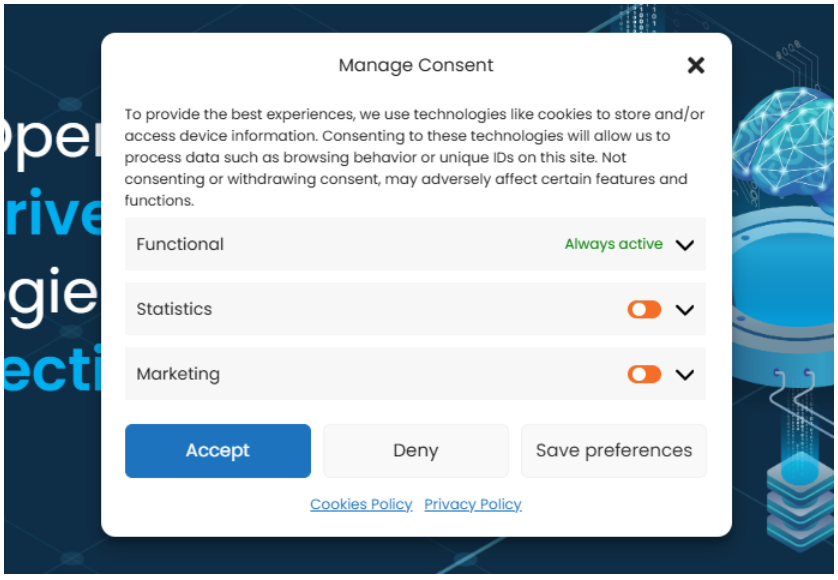

Figure 7: FLECON-6G Website – Change Cookie Settings

3.3 Google Analytics Website Traffic

Google Analytics is a free web analytics service provided by Google that tracks website traffic and delivers insights through Key Performance Indicators (KPIs). The FLECON-6G website is registered with Google Analytics, enabling access to a wide range of reports designed to meet the needs of even the most demanding web administrators.

The following is a sample screenshot showcasing analytics results generated during the project's first month, providing an overall audience overview.

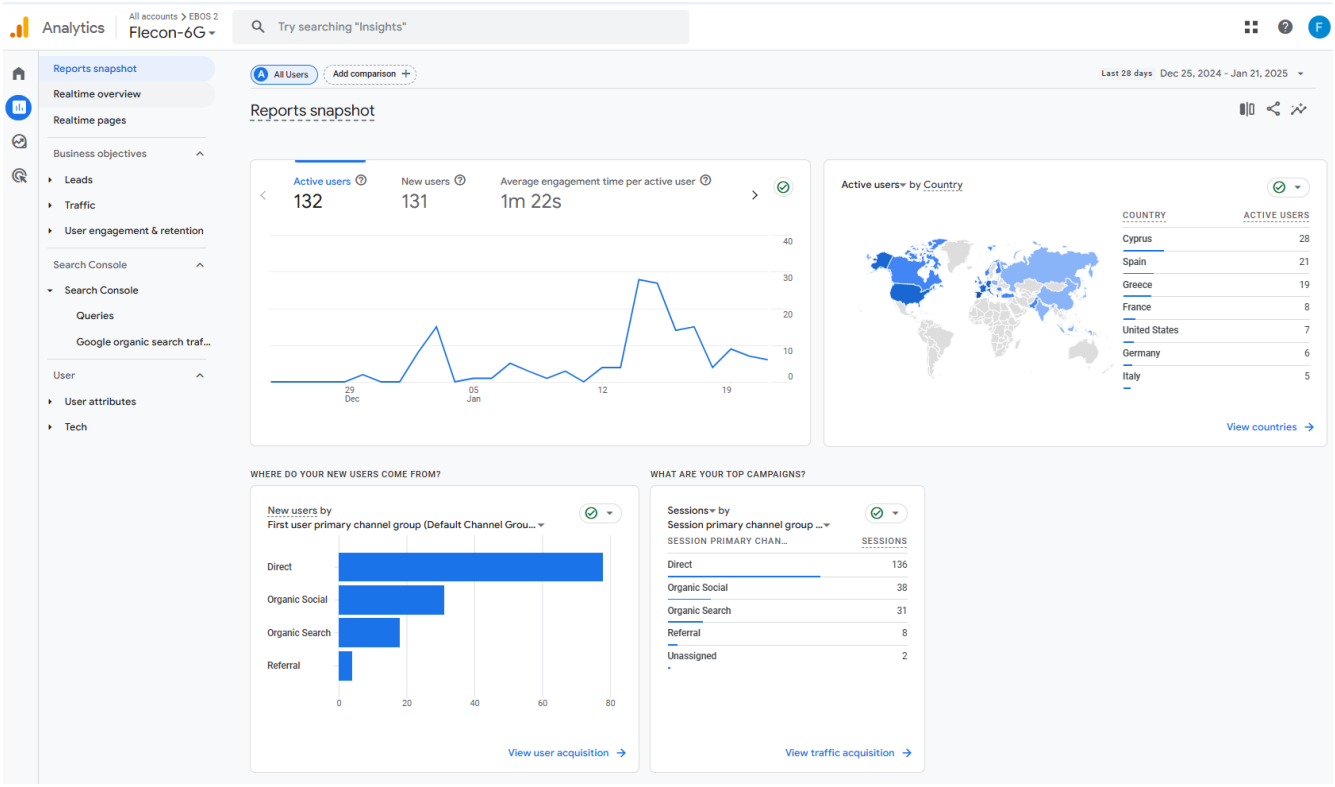

Figure 8: FLECON-6G Google Analytics

Future deliverables associated with dissemination and communication plans will include updated website traffic reports and more comprehensive analytics to evaluate engagement and reach effectively with key information such as:

- Total number of sessions, users, and page views.
- Average session duration and percentage of new sessions.
- Demographic insights, including sessions by country.
- Detailed user activity reports.
- Real-time data on active users, including activity by time of day.

3.4 Website Administration

This chapter describes the administration site of the project's website. The website has been built using WordPress.[8] (version 6.7.1). WordPress is web-based software widely used for website designs, emphasising

[8] https://wordpress.org/about/

accessibility, performance, security, and ease of use. It is GDPR compliant and offers a large database of user-friendly plugins that are always updated with new trends. SideGround[9] hosts the WordPress platform, a web hosting solutions provider. Bluehost always installs the latest version of WordPress so that the FLECON-6G website has all the latest features.

Figure 9 below illustrates the welcome/main page displayed once the administrator user logs into WordPress. The navigation menu (on the left of the website) helps the user easily navigate through the different categories of the FLECON-6G project website.

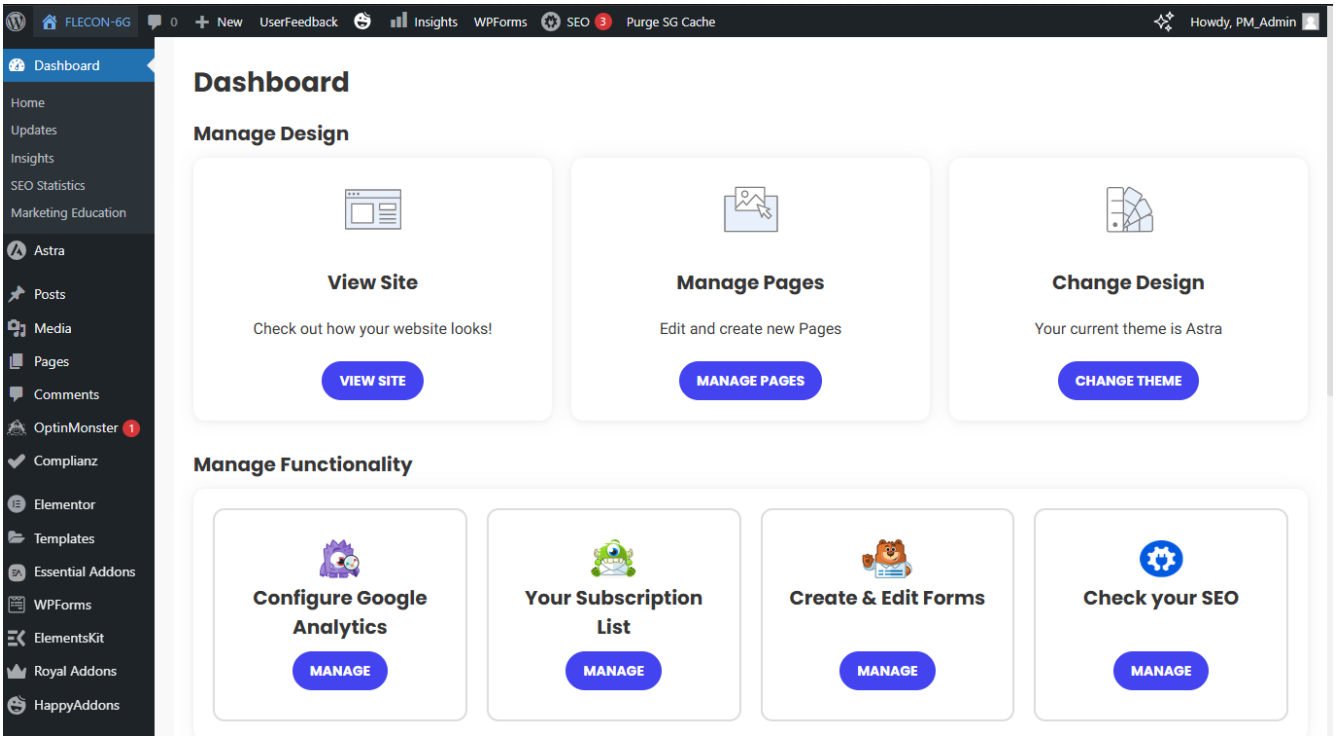

Figure 9: WordPress – Main page

Using WordPress, the administrator can create a new page, rename, delete and change the content of an existing page. The administrator may also see and edit the 'Menu items' and 'Menu Structure'. Indicative screenshots of the above-mentioned functionalities are presented in Figures 10 and 11.

[9] https://world.siteground.com/

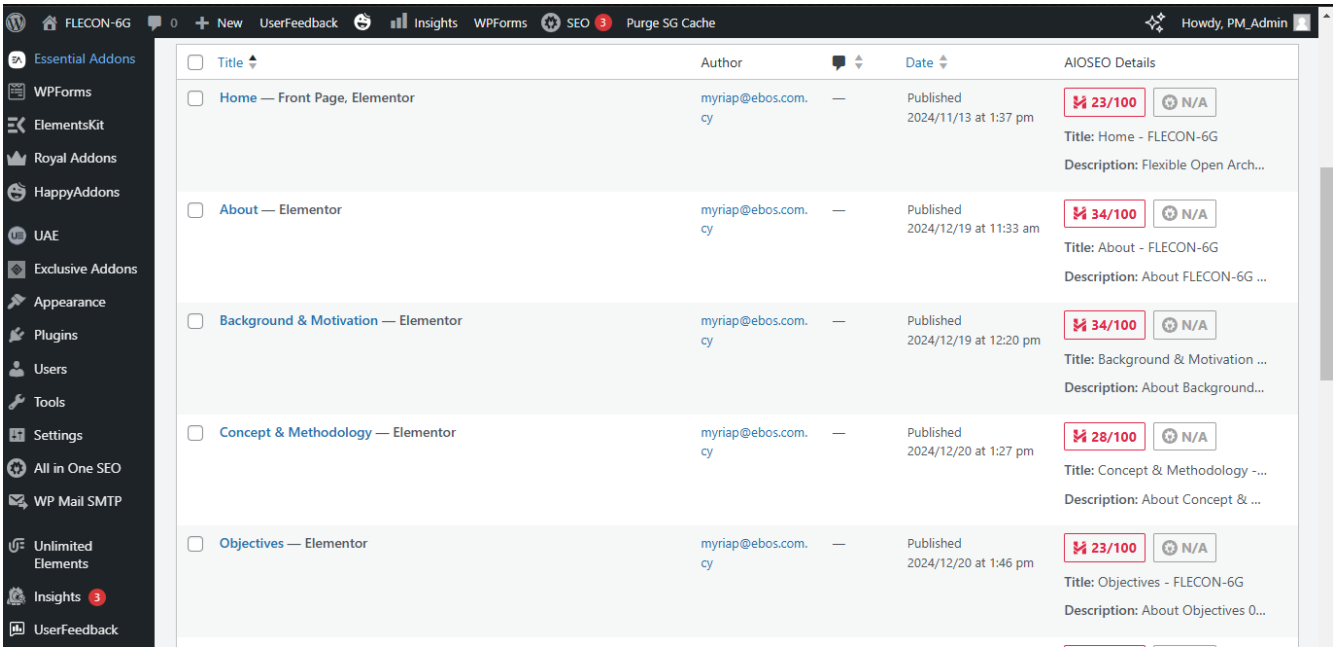

Figure 10: WordPress – Edit Menu

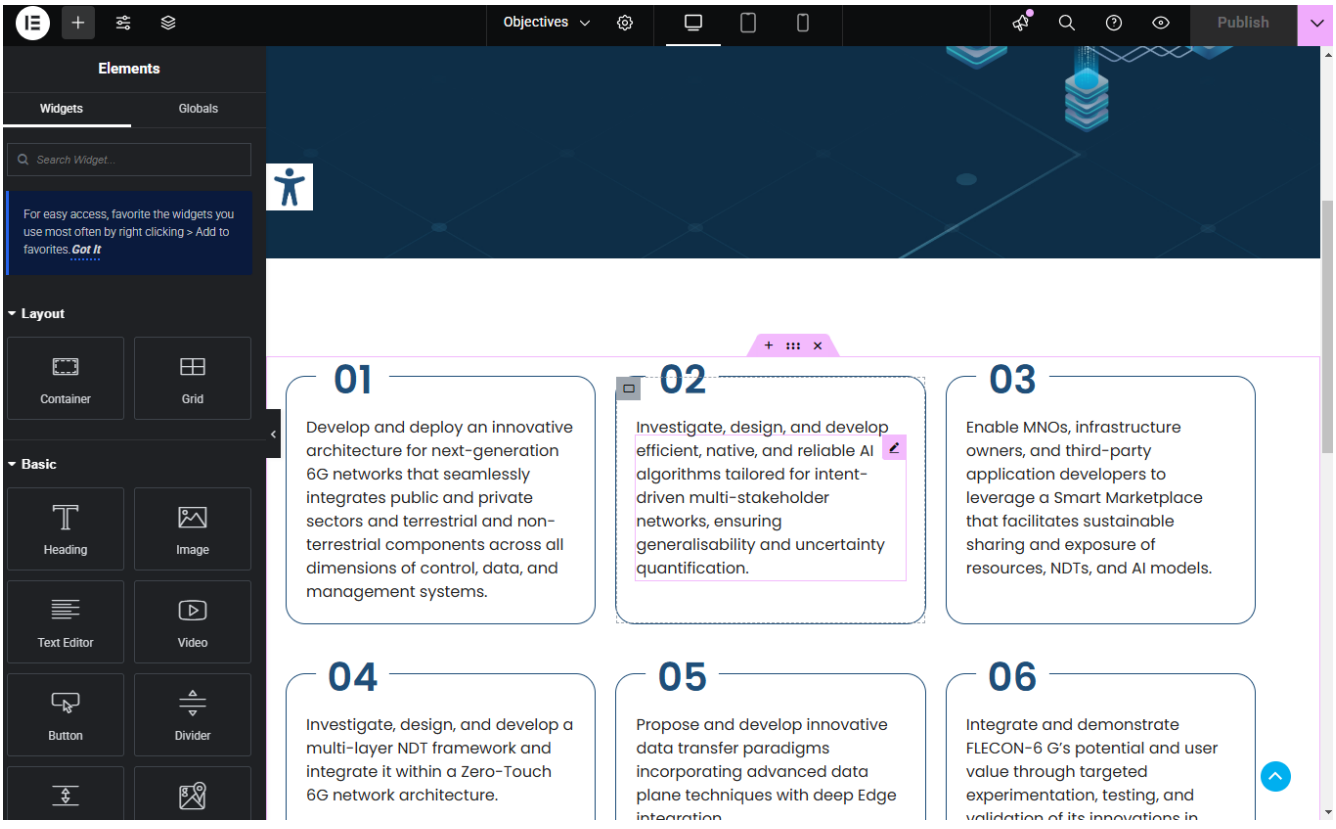

Figure 11: WordPress – Edit Website/Page Content

4 Project's Social Media Channels

This Chapter describes the FLECON-6G social media accounts on LinkedIn and Twitter, which are (along with the website) part of the dissemination activities undertaken for this project. It was decided by the Consortium that Facebook is not the most appropriate social media channel for disseminating the project; that's why we will not have it as part of the dissemination activities.

The FLECON-6G LinkedIn page https://www.linkedin.com/company/flecon-6g was created during the first month of the Project. The LinkedIn group provides a large dissemination channel where executives in the field of 5G technology connect. This channel will massively disseminate project facts, results, links to work, events, etc., including all significant project steps, meetings and outcomes. While preparing this report, the group already had several followers, discussions, and announcements. Sample screenshots from the LinkedIn group are presented in the following Figure.

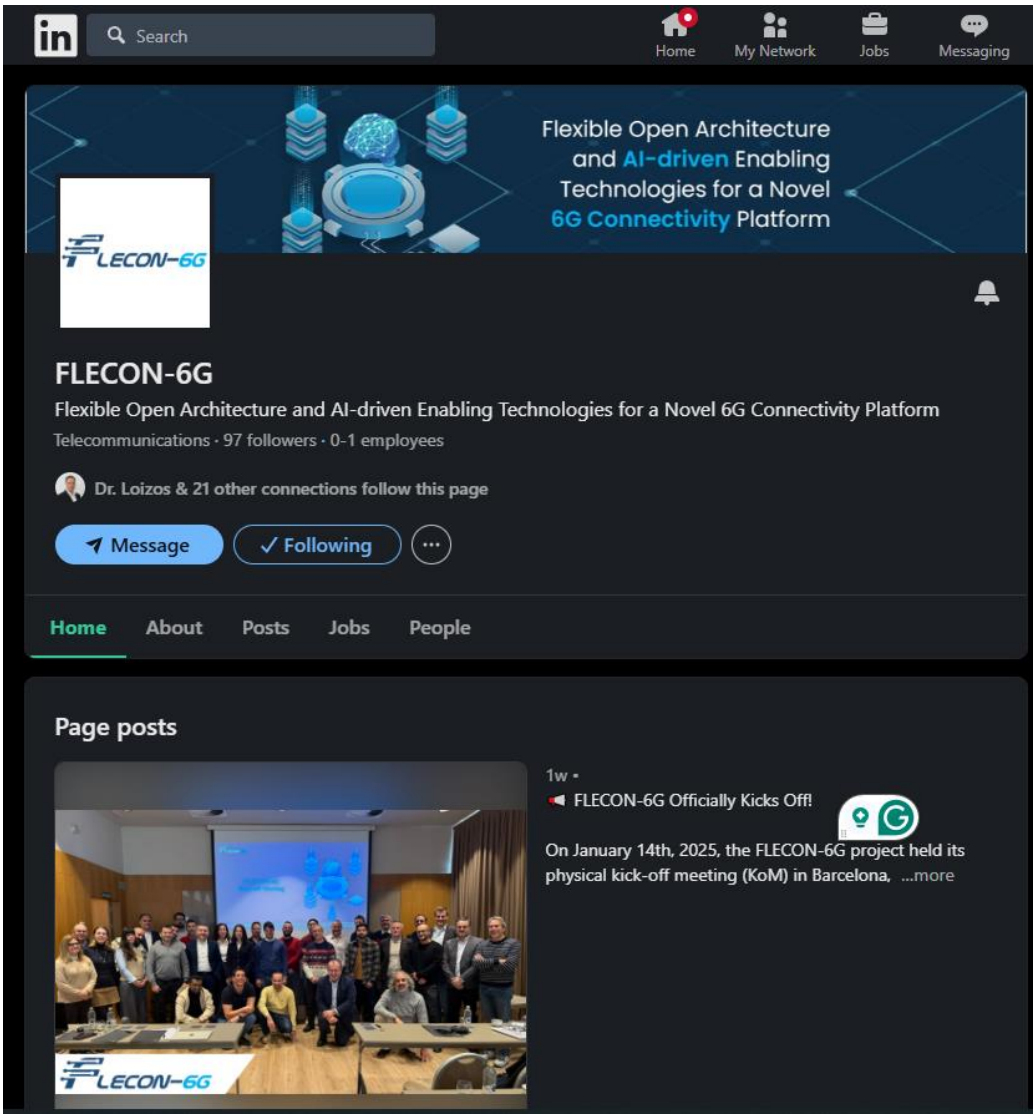

Figure 12: FLECON-6G LinkedIn Page

The FLECON-6G X account has also been created since the very early stages of the project (M1). It will be used for a similar approach and dissemination as the LinkedIn group. The scope here is also to use it as a mass-

dissemination tool and to provide links between project partners and related research, stakeholders or potential FLECON-6G up-takers. The FLECON-6G Twitter account can be found at the following link: https://x.com/Flecon6G which will also be maintained throughout the project. A sample screenshot from the X project account is presented in the following Figure.

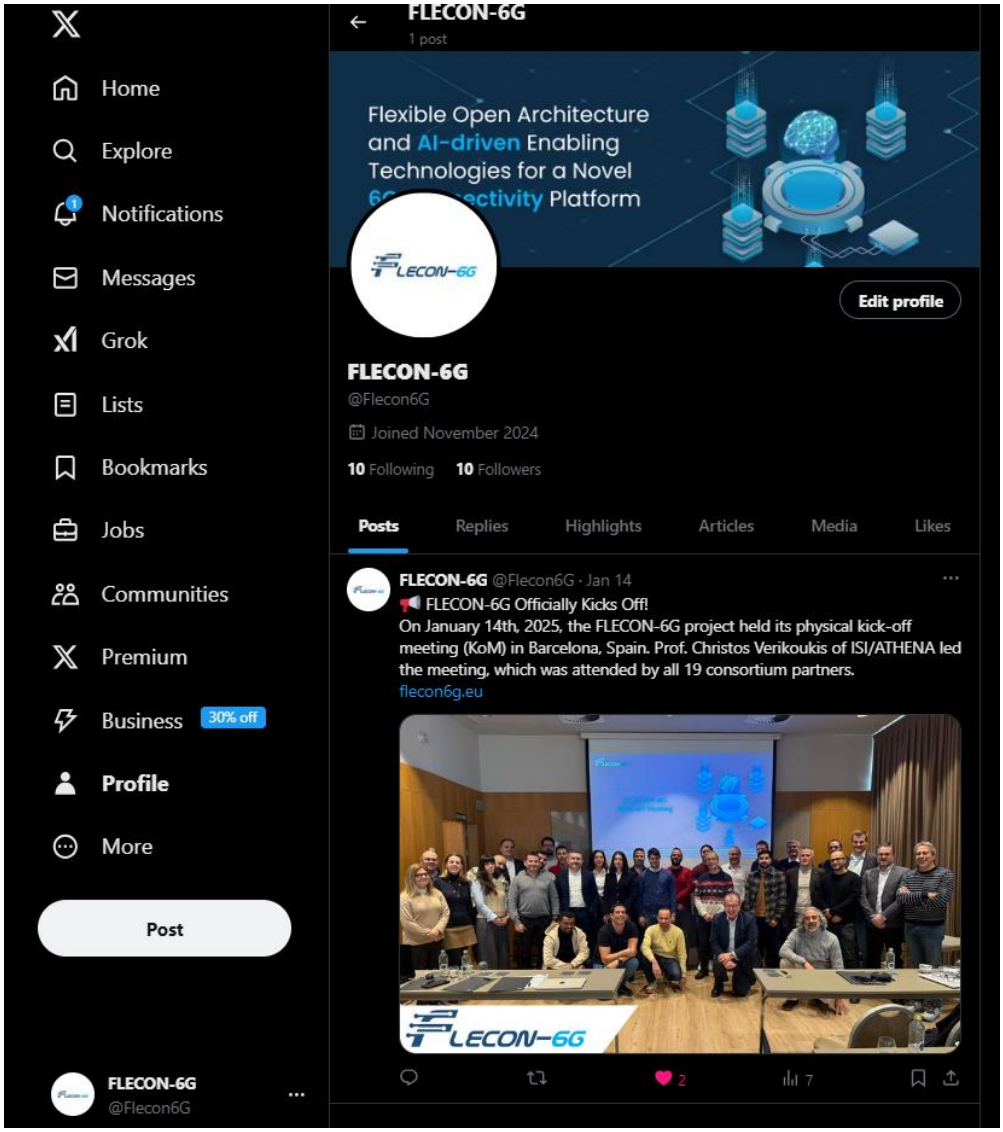

Figure 13: FLECON-6G Twitter Channel

Moreover, the FLECON-6G YouTube channel has already been created and will be used to post videos related to the project and its outputs. The channel is accessible via the following link: https://www.youtube.com/@FLECON-6G. The following figure presents a snapshot of the channel.

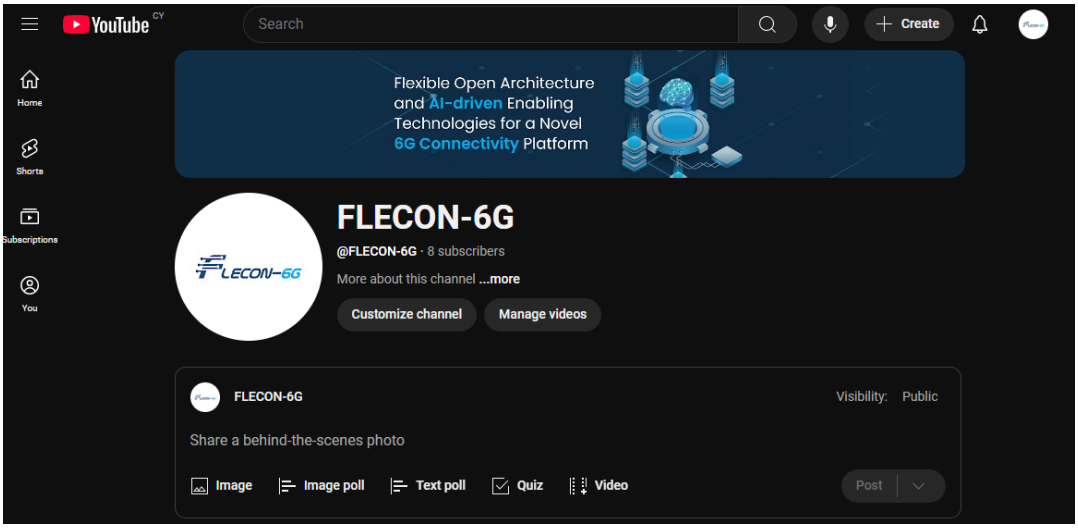

Figure 14: FLECON-6G YouTube Channel

5 Conclusions

The document provides a detailed overview of the FLECON-6G project's online presence, including the design and functionality of the website and social media platforms such as LinkedIn, YouTube, and X. It outlines the methodology behind the creation of a user-friendly, responsive website that ensures multi-browser and multi-device compatibility while serving as the central hub for dissemination activities.

Statistical insights from Google Analytics showcase the website's early performance, emphasizing its role in engaging stakeholders and disseminating project results. The document also describes the administration process, highlighting the flexibility and efficiency of the website's management.

Finally, the document shows in the Annexes chapters the visual representation of all the website pages, along with the promotional material (rollup banner, leaflet and poster) that have been designed.

As part of Task T6.1 and WP6, the content of the website and social media accounts will be continuously updated with project-related material, ensuring the dynamic dissemination of progress and results. Future deliverables will include enhanced analytics, additional content updates, and detailed documentation of project activities, reinforcing the project's outreach and impact.

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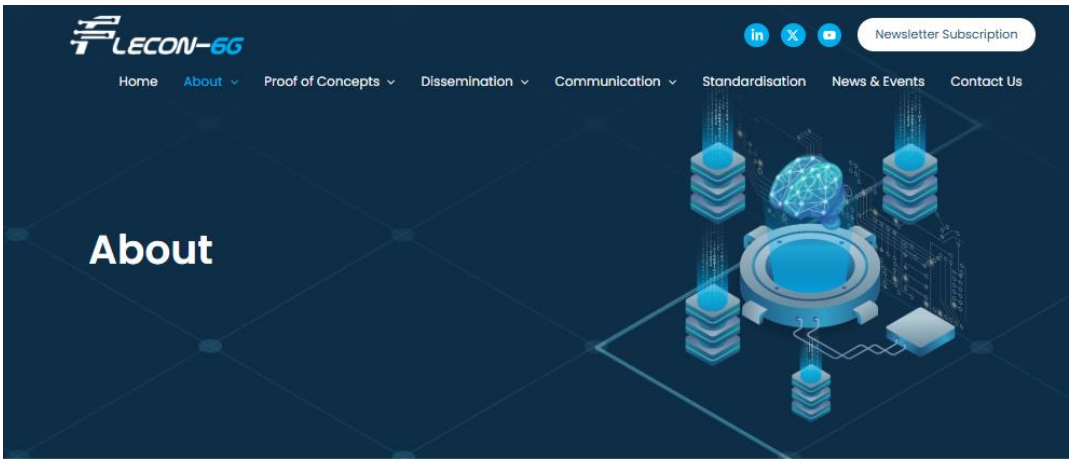
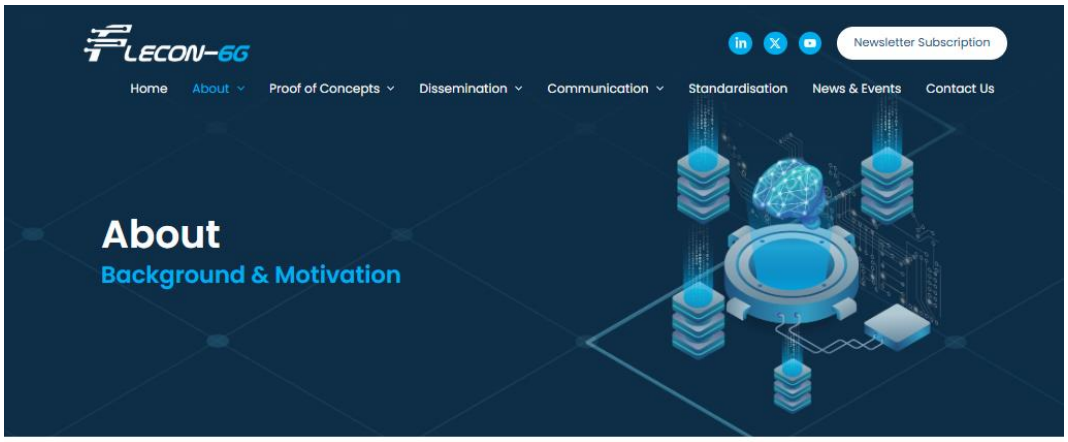
Annex 1: Project's Website Pages

- **About the Project Page**



FLECON-6G gathers key participants from Phase-1 and Phase-2 Smart Networks and Services Joint Undertaking (SNS JU) projects, aiming to make the "Intelligent 6G Network of Networks" vision a reality, with Trustworthiness and Generalisability of Native AI and Network Digital Twins (NDT) assisted approaches.



Over the past decade, advancements in wireless communication have been significant, particularly with the rise of 5G, which supports data-intensive services like enhanced Mobile Broadband (eMBB), massive Machine-Type Communications (mMTC), and Ultra-Reliable Low-Latency Communications (uRLLC).

As we move into the 6G era, we will focus on creating Smart Networks and Services that integrate communication technologies with computational resources and AI. This aims to establish an intelligent, adaptive "network of networks," fostering a complex digital ecosystem.

However, challenges remain, including:

01
Integration of Technologies
Ensuring seamless interoperability.

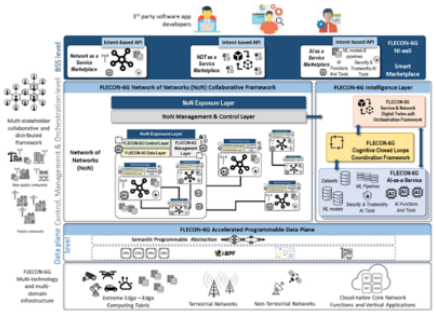
02
Trustworthiness
Meeting service level agreements (SLAs) for latency, reliability, and throughput.

03
Conflict Resolution
Addressing potential conflicts among data-driven components, leading to research in Native AI conflict resolution.

These efforts are crucial for realising the full potential of future 6G networks.

Concept

FLECON-6G proposes a novel 6G blueprint reference architecture driven by distributed, modular, open, collaborative, trustworthy frameworks and multi-layer NDTs, introducing several technical innovations:



01

At the Business Support System (BSS) Level

Smart Marketplace:
This offers Network Infrastructure as a Service (NIaaS) to verticals and application developers. It is extended with a wide set of NDTs, trustworthy AI, security tools, and network services, which can be discovered and consumed on-demand by vertical applications and upper layers.

02

At the Control, Management and Orchestration Level

Network of Networks (NoN) Collaborative Framework:
Ensures flexible, scalable, dynamic and efficient composition of 6G networks of networks and their improved automation, optimised and sustainable operation.

Intelligence Layer:
implements the composition, management and orchestration logic of the NoN-Collaborative Framework.

03

At the Data Plane Level

Accelerated Programmable Data Plane:
Provides a unified programmable interface to applications and services while implementing lower-level accelerated techniques for improved traffic and service performance offloading.

Methodology

FLECON-6G adopts an iterative and incremental development approach, integrating advanced technologies to produce the next generation of 6G architecture. It applies a dynamic design, implementation, testing, and usage process, running concurrently with relevant environment validations of the technological components. FLECON-6G expects significant feedback and adjustments, which will aid in meeting the target KPIs and KVIs through ongoing refinements influenced by experiments. Open to incorporating emerging technologies and responsive to new requirements, FLECON-6G prioritises modular design to minimise interdependencies among components.

FLECON-6G will be executed over contiguous and sequentially aligned phases focusing on the requirements analysis, the definition of UCs scenarios and methodologies, the design of the architecture, the development of the system's building blocks and their integration, technology validation through the PoCs, and impact maximisation activities. These phases aim to provide and improve a consolidated set of results, and therefore, the following approaches will be used to enable faster software development:

01

Service-oriented methodology for the design approach.

02

An agile approach for the development of the FLECON-6G software components.

03

Machine Learning Operations (MLOps) methodology for developing the FLECON-6G AI/Machine Learning (ML) algorithms.

04

Theoretical considerations, simulation, and experimentation in a lab and an industrial environment for validating the FLECON-6G concept and technologies.

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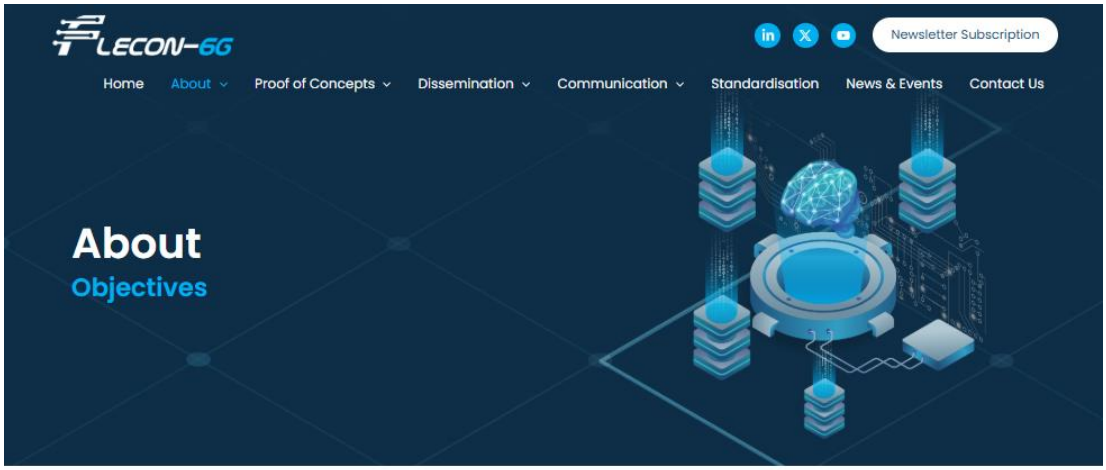

01

Develop and deploy an innovative architecture for next-generation 6G networks that seamlessly integrates public and private sectors and terrestrial and non-terrestrial components across all dimensions of control, data, and management systems.

02

Investigate, design, and develop efficient, native, and reliable AI algorithms tailored for intent-driven multi-stakeholder networks, ensuring generalisability and uncertainty quantification.

03

Enable MNOs, infrastructure owners, and third-party application developers to leverage a Smart Marketplace that facilitates sustainable sharing and exposure of resources, NDTs, and AI models.

04

Investigate, design, and develop a multi-layer NDT framework and integrate it within a Zero-Touch 6G network architecture.

05

Propose and develop innovative data transfer paradigms incorporating advanced data plane techniques with deep Edge integration.

06

Integrate and demonstrate FLECON-6 G's potential and user value through targeted experimentation, testing, and validation of its innovations in PoCs.

07

Establish an integrated, end-to-end architecture for multiple stakeholders and implement a collaborative, distributed framework that facilitates recursive modelling, coordination, dynamic composition, and operation of multi-domain 6G networks of networks.

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TECHNISCHE UNIVERSITEIT DELFT (TUD)

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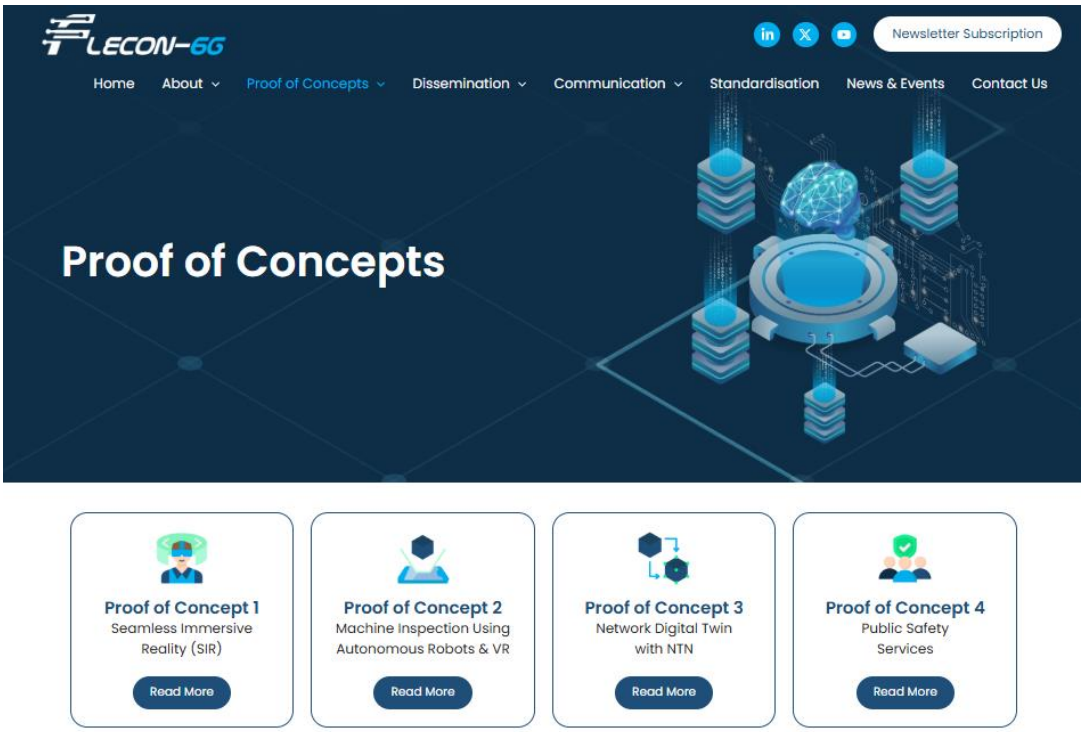
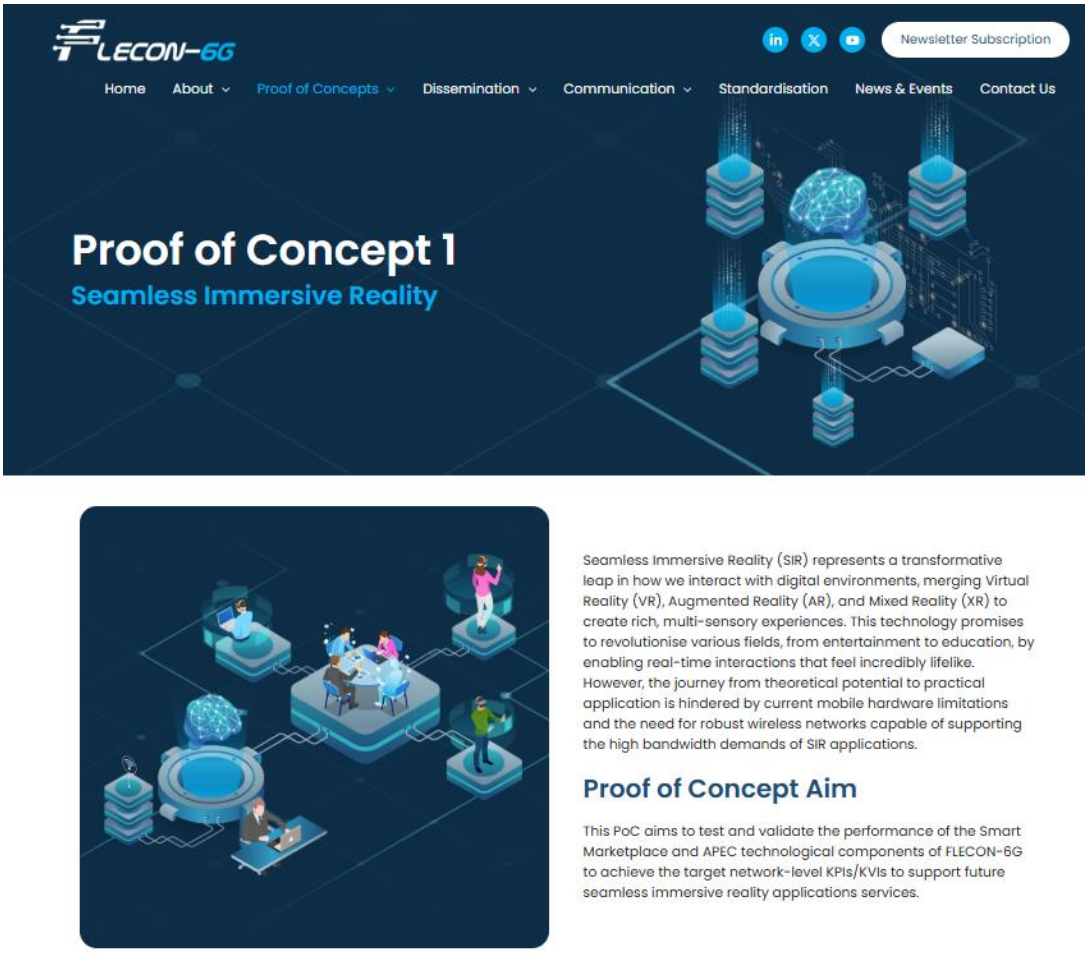
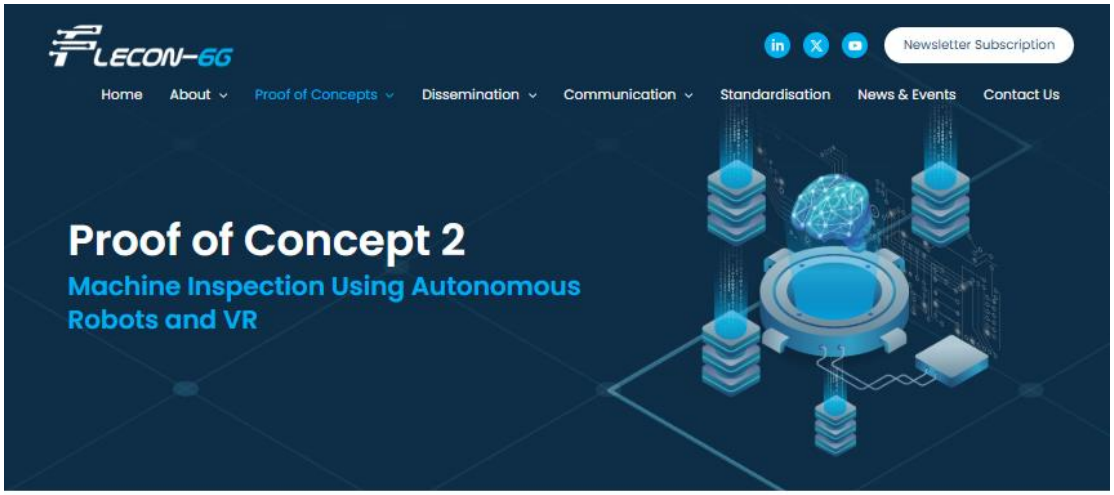
TELEFONICA INNOVACION DIGITAL SL (TID)

- **Proof of Concepts Page**



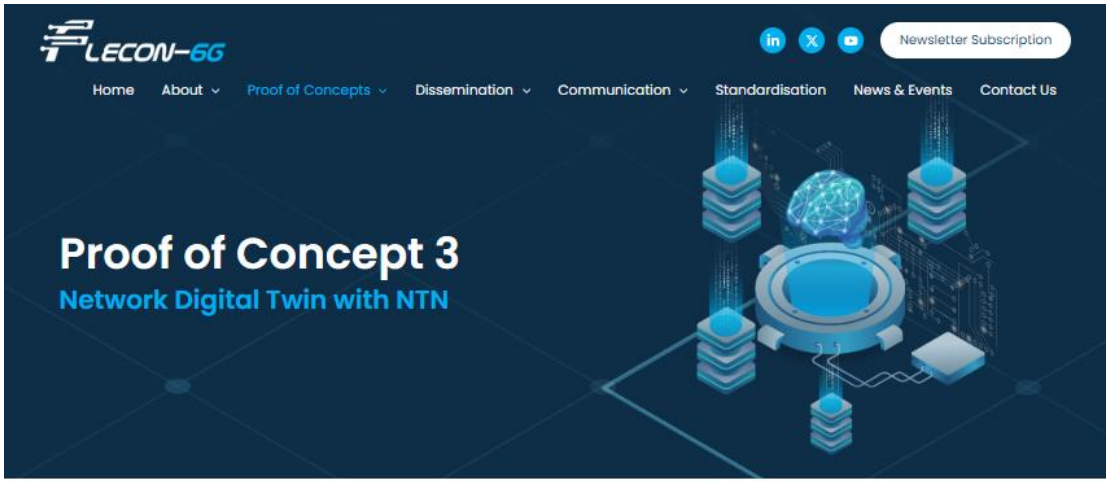




Ensuring high-quality video streams in critical operations like machine inspection is essential for effective anomaly detection. When video quality degrades, operators struggle to identify issues promptly, which can lead to significant risks. The unpredictable nature of wireless conditions—affected by interference, obstacles, and varying network traffic—complicates this challenge. To address these issues, an intelligent, adaptive system is necessary. By utilising ZSM and AI/ML-driven Decision Engines, a proactive solution can be developed that detects and predicts video quality problems while automatically adjusting radio resources to maintain optimal performance. This innovative approach enhances operational efficiency and minimises the risk of oversight, ensuring safer and more reliable outcomes in high-stakes environments.

Proof of Concept Aim

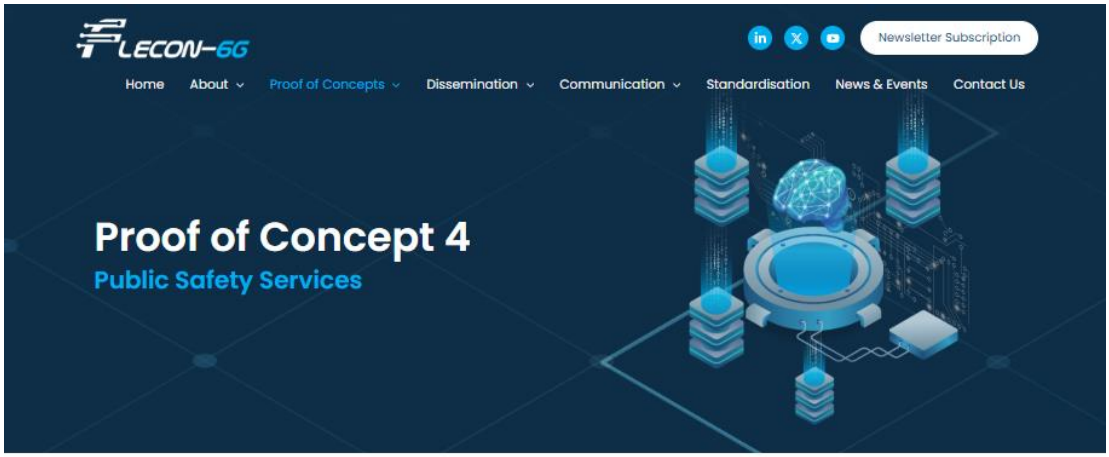
This PoC aims to showcase the usage of RAN NDT within a ZSM closed-control loop to guarantee constant quality for the video streams collected from the robots that do machine inspections. In this PoC, we will demonstrate FLECON-6G's approach to resolving conflicts in a Native AI-driven closed-loop ZSM system to guarantee that robots' video streams are not degraded, even in bad conditions (channel degradation or competition with other flows), by adapting the radio resources allocated to the robots' video stream in real-time.



Integrating Network Digital Twins (NDTs) with Non-Terrestrial Networks (NTNs) is crucial for enhancing operational efficiency and service delivery in challenging environments. NDTs enable real-time monitoring and control, allowing for immediate adjustments to network parameters, which is vital in remote areas where connectivity can be unpredictable. They facilitate enhanced planning and optimisation by simulating various scenarios, ensuring that specific quality of service (QoS) requirements, such as latency and bit rates, are consistently met. Moreover, NDTs support the integration of multiple digital twins, providing a comprehensive view of the network ecosystem and enabling seamless connectivity across terrestrial and non-terrestrial systems. This synergy fosters innovation and new business models and ensures that industrial applications can thrive in an increasingly digital landscape.

Proof of Concept Aim

The objective of this PoC is to demonstrate the integration of Network Digital Twins (NDTs) with Process Digital Twins (PDTs) and Computing Digital Twins (CDTs) to enhance real-time optimisation in mobile communication systems. Furthermore, PoC3 seeks to validate the benefits of this integration beyond traditional network planning while establishing a transparent mobile network infrastructure that seamlessly combines terrestrial and non-terrestrial technologies, ensuring reliable connectivity for various applications.

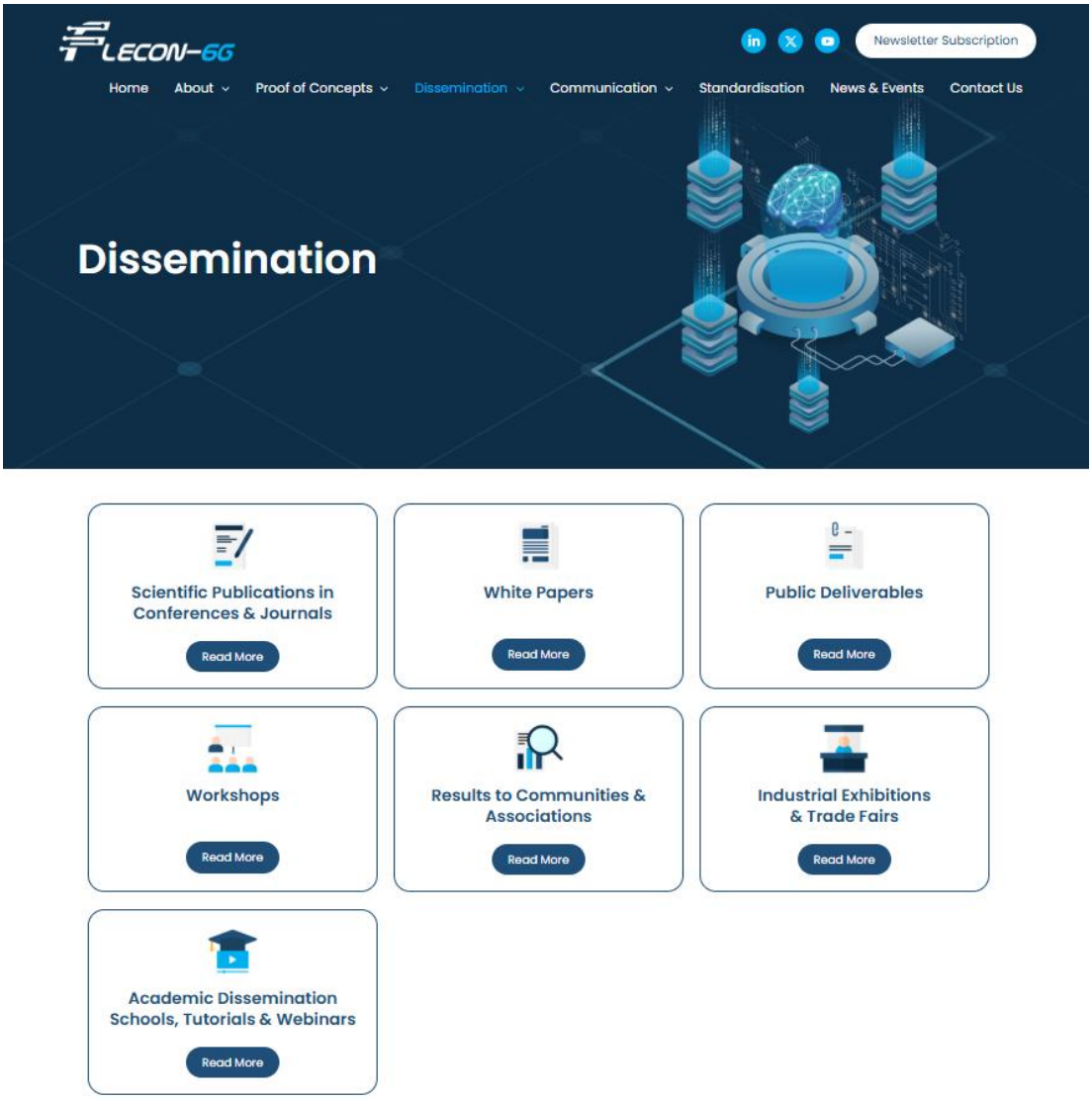


Enhancing public safety communication systems is crucial for effectively responding to emergencies and ensuring community security. Traditional infrastructures often fail to meet the high demands for reliability, low latency, and robust security required in critical situations. Innovative solutions are essential to address these challenges, particularly in achieving ultra-reliable communication for real-time data exchange during emergencies. Additionally, integrating advanced AI capabilities can significantly improve situational awareness and decision-making, although this integration presents technical hurdles related to efficiency and data privacy. Ensuring seamless interoperability among diverse communication technologies is vital for effective collaboration among agencies involved in emergency response while safeguarding these systems against cyber threats.

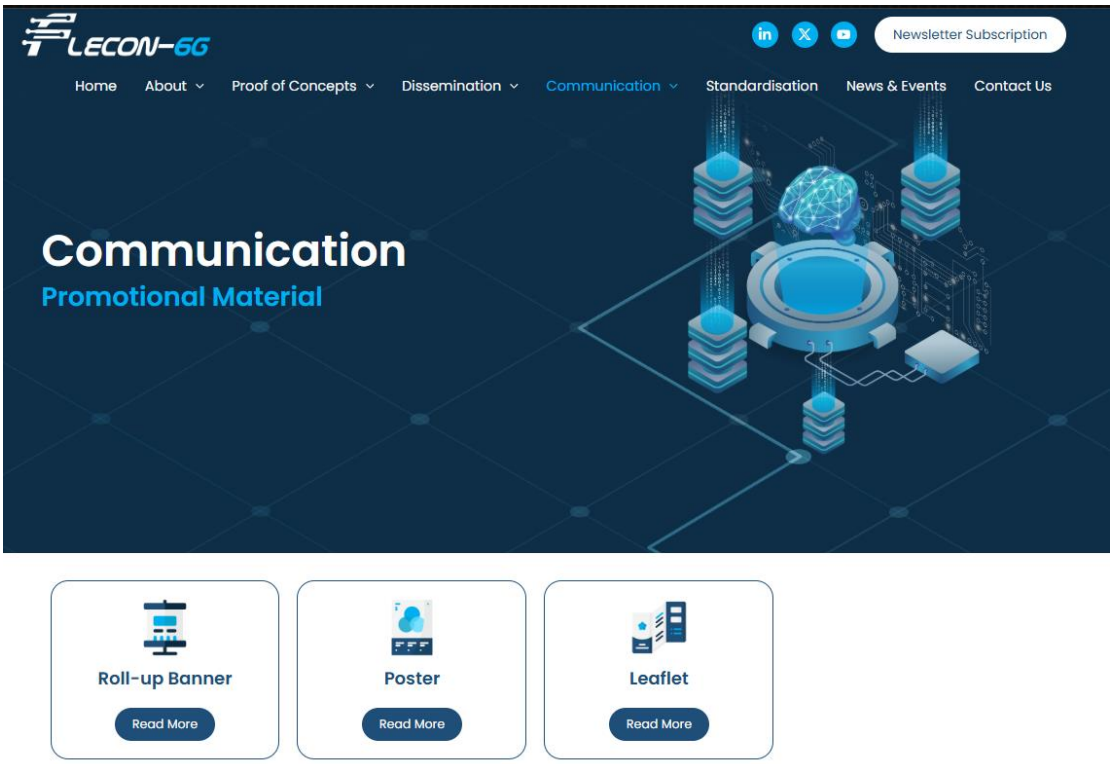
Proof of Concept Aim

This PoC aims to demonstrate the feasibility and effectiveness of the FLECON-6G connectivity platform in meeting the critical communication needs of public safety end-users. It will validate the platform's adaptability and robustness in supporting mission-critical services, focusing on ultra-reliable and low-latency communication (uRLLC), seamless mobility, and secure data transmission. Additionally, the PoC will showcase the integration of advanced AI capabilities to enhance situational awareness, response coordination, and decision-making during emergencies. Overall, the objective is to confirm the FLECON-6G platform's suitability for improving the operational effectiveness of public safety agencies.

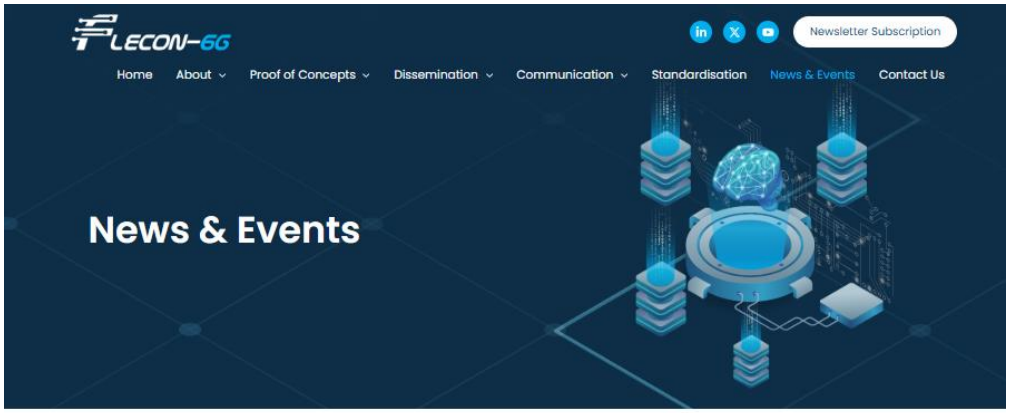
- **Dissemination Page**



- **Communication Page & Promotional Materials**



- **News & Events Page**



FLECON-6G Project Kick-off Meeting

On the 14th of January 2025, the FLECON-6G project, "Flexible Open Architecture and AI-driven Enabling Technologies for a Novel 6G Connectivity Platform", held its physical kick-off meeting (KoM) in Barcelona, Spain. FLECON-6G is a 36-month EU-funded Research and Innovation Action funded under the HORIZON JU SNS programme officially started on the 1st of January 2025. The physical kick-off meeting was led by Prof. Christos Verikoukis, who represented the ISI/ATHENA research centre as the project coordinator.

The meeting was attended by 19 consortium partners. During the meeting, partners presented the project's vision and objectives and discussed the project's work plan, tasks, challenges, identified risks, and implementation schedules. Moreover, the project officer presented the European Commission's expectations and guidelines.

Based on our previous initiatives, in FLECON-6G we propose a breakthrough 6G architecture based on the Network of Networks concept with Trustworthiness, Generalisability of Native AI and NDT-assisted approaches.

The main innovation of the project includes:

- Accelerated Programmable Edge Computing
- AI-Native integration via foundation models for planning in multi-stakeholder networks
- Recursive and collaborative composition and federation of 6G NoN
- Trustworthy AI
- Intent-driven smart marketplace for vertical exposure
- Network Digital Twins (NDT) frameworks
- Multi-layer and multi-domain NDT to assist network orchestration, closed-loop decision automation and conflict resolution

Four well established testbeds at Isi Athena, EURECOM, Siemens, Orange Romania will be used for the proof-of-concepts of the proposed architecture in:

- Seamless Immersive Reality applications
- Machine inspection using autonomous robots and VR
- Network Digital Twin with NTN
- Public Safety Services

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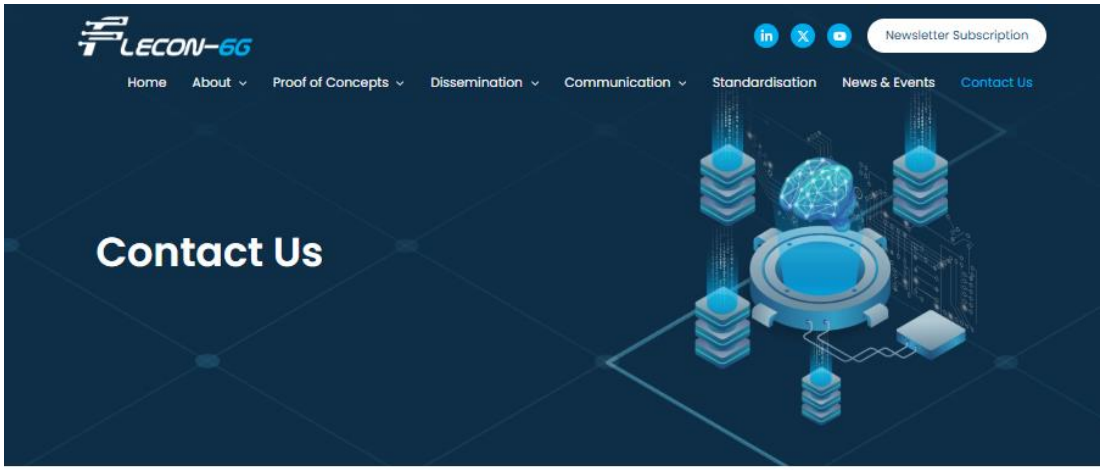
- **Contact Us Page**



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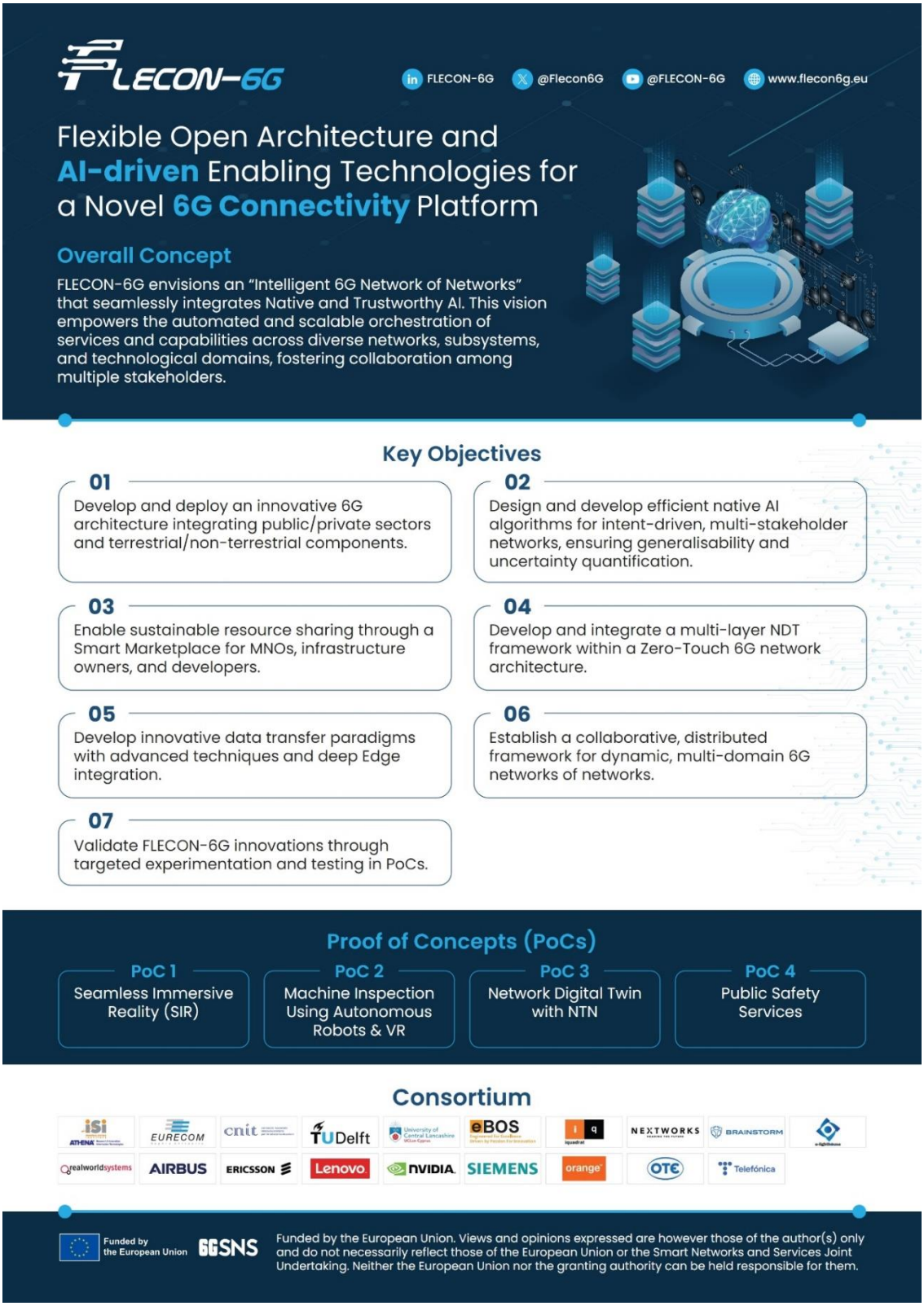
Annex 2: Promotional Material

- **Project Poster**[10]

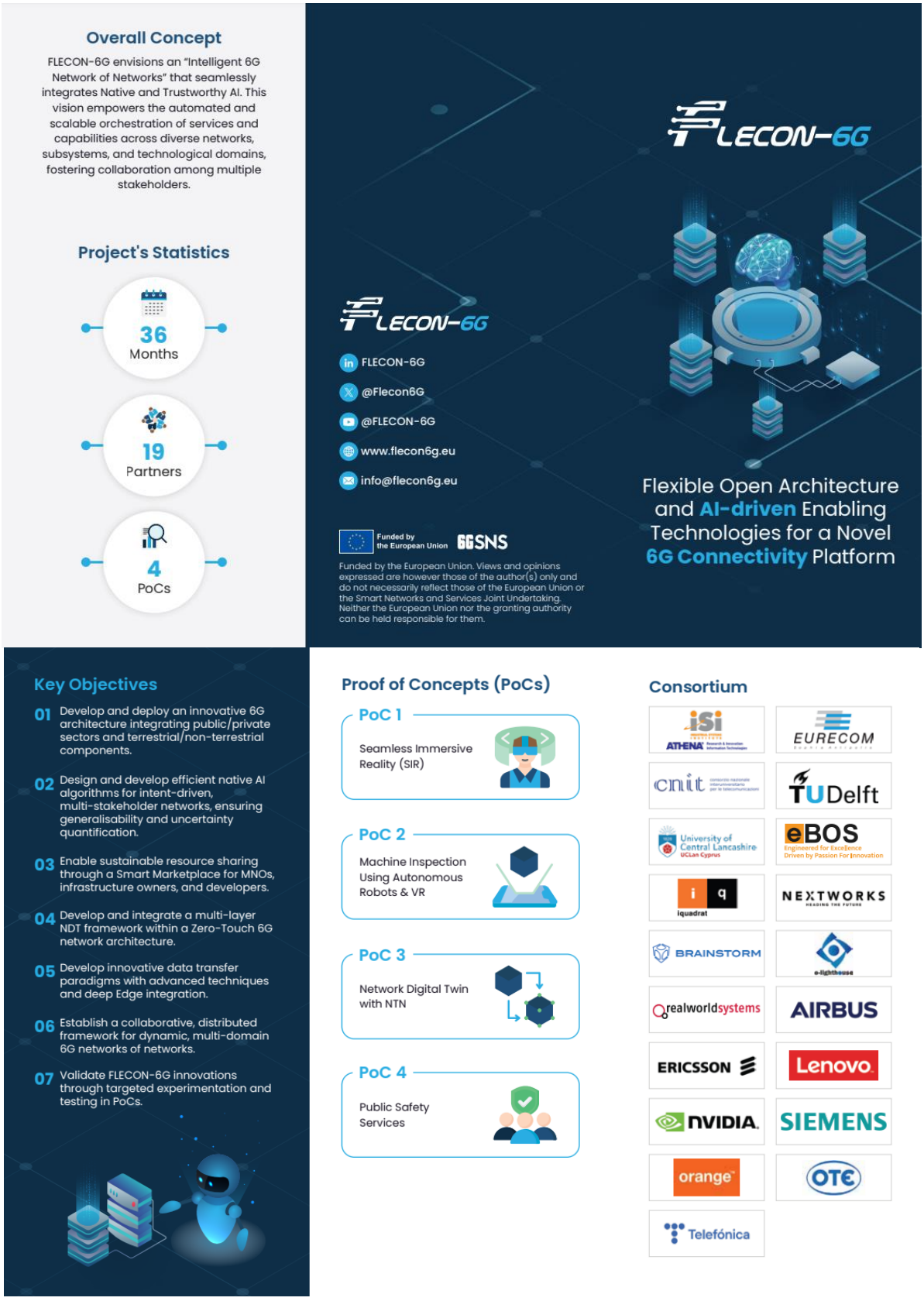


[10] https://flecon6g.eu/wp-content/uploads/2025/01/FLECON-6G-Poster.pdf

- **Project Roll-Up Banner**[11]

[11] https://flecon6g.eu/wp-content/uploads/2025/01/FLECON-6G-Rollup-Banner.pdf

- **Project Leaflet**[12]



[12] https://flecon6g.eu/wp-content/uploads/2025/01/FLECON-6G-Leaflet-WEB.pdf