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NEMECYS [101094323]: New Medical Cybersecurity assessment and design solutions



D5.6 Project public website

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Disclaimer

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v1.0	29/06/2023	Delivery of D5.6 Project public website	George Zissis (ATC), Margarita Koromila (ATC) and Teri Legaki (ATC)

Executive Summary

D5.6 Project public website is a deliverable that showcases the official website of the NEMECYS project. It provides an overview of the website's structure, design, functionality, and the content it encompasses.

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List of Abbreviations

Abbreviation	Definition
CMD	Connected Medical Device
CMS	Content Management System
EEA	European Economic Area
EU	European Union
GDPR	General Data Protection Regulation
GNU	GNU's not Unix
HaDEA	European Health and Digital Executive Agency
IEC	International Electrotechnical Commission
ISO	International Organization for Standardization
MD	Medical Device
SERI	State Secretariat for Education, Research, and Innovation
UKRI	UK Research and Innovation
URL	Uniform Resource Locator

1 Introduction

1.1 Purpose and scope

The NEMECYS project website, which was launched early in its development (specifically in M6: June 2023), plays a pivotal role as a comprehensive platform for disseminating relevant information pertaining to the project's objectives, anticipated outcomes, and potential impact. In addition, it serves as a repository of comprehensive details concerning the project team and consortium partners involved.

Throughout the entire duration of the project, the website will consistently undergo updates to ensure the inclusion of new content and accommodate the gradual release of publicly accessible materials. These materials may include a wide array of resources such as deliverables, scientific publications, and reports. By actively maintaining the project's website and leveraging its social media accounts, a continuous digital presence will be established. This proactive approach aims to effectively distribute information and provide regular updates regarding the project's achievements.

The primary objective of these efforts is to cultivate and broaden a diverse network of stakeholders comprising cybersecurity experts, Medical Device (MD) manufacturers, Connected Medical Device (CMD) integrators, and healthcare operators. This network is comprised of individuals, organizations and related projects who possess the expertise and capability to collaborate, actively contribute to and endorse the NEMECYS project. Through this collaborative network, the project aims to maximize its potential impact and establish itself as a valuable initiative within the field of cybersecurity for CMDs.

1.2 Structure of the deliverable

The structure of this deliverable is organized as follows:

- Section 1 serves as an introduction, providing an overview of the document's purpose and scope.
- Section 2 presents the website's infrastructure and technical details.
- Section 3 outlines the structure and sitemap of the website.
- Section 4 provides a description of the website pages, accompanied by screenshots from the respective pages.
- Finally, Section 5 concludes this document.

2 Website infrastructure

2.1 Domain name / URL

The NEMECYS consortium has reserved the domain name nemecys.eu and the project's website is accessible through the following URL: <https://nemecys.eu/>

Since 23rd June 2023, the website is online and can be accessed through the above URL.

2.2 Website platform

The underlying platform is WordPress (<https://wordpress.org/>) which is a highly customizable, free and open-source content management system (CMS) that easily allows organizing, managing and publishing content, featuring a wide range of plugins. As of June 2023, WordPress is used by 43.1% of all the websites, that is a content management system market share of 63.2%.¹ WordPress is distributed under the terms of the GPLv2 that is the GNU General Public License, which means anyone is free to run, study, share, and modify the software as long as any derivative work is distributed under the same or equivalent license terms. This open development model means that WordPress professionals, designers, bloggers, enthusiasts are constantly working to make sure WordPress is a cutting-edge platform that supports the latest technologies that the Web has to offer. The WordPress project's principles encourage modularity, standards, collaboration, ease-of-use, and more.

2.3 Hosting

The website is hosted at Hetzner data centers that fulfil the following criteria:

- Certified in accordance with ISO/IEC 27001.
- Internationally recognized standard for information security.
- Certification for the data center parks and the entire infrastructure.
- Verification for the continuous assessment of and sustained improvements to security standards.

2.4 Website statistics

To be able to monitor and analyse the traffic and the reach of the website, usage statistics are constantly recorded and stored, using the Google Analytics toolkit². Thus, the consortium members can have access to the history logs and are able to extract useful information about the website operation.

2.5 Browser compatibility

The website is compatible with the following web browsers:

- Microsoft Internet Explorer 10 or higher;
- Microsoft Edge;

¹ https://w3techs.com/technologies/overview/content_management

² There is an ongoing discussion on whether Google Analytics is in violation of European privacy regulation (GDPR). The NEMECYS consortium is aware of the potential issues, and are, at the time of writing, considering replacing it with an alternative tool, such as Plausible: <https://plausible.io/>

- Mozilla Firefox 5.0 or higher;
- Apple Safari 8.0 or higher;
- Google Chrome.

3 Website structure

The NEMECYS website consists of the following webpages:

- Homepage
- About Us
 - Overview
 - Use Cases
 - Impact
- Who we are
 - Partners
- Resources
 - Material
 - Public Deliverables
 - Publications
- Blog

The webpages above are structured and interconnected comprising the NEMECYS website according to the following website-map (Figure 1).

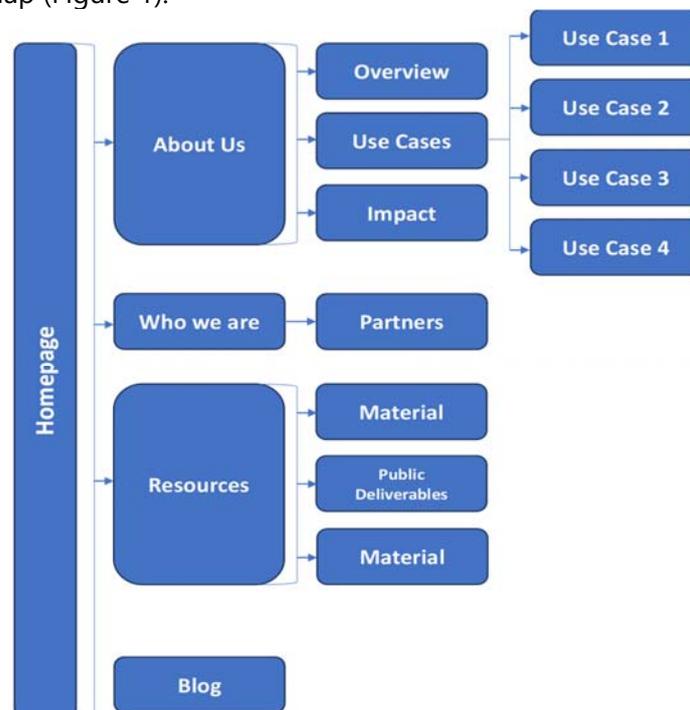


Figure 1: NEMECYS website map.

4 Website description

In the following subsections, the NEMECYS website is presented and a short description, alongside a screenshot, of each section is provided.

4.1 Header

The header is located at the top of every webpage of the website, and contains the following elements:

- The logo of the project on the left side of the header.
- The navigation panel through which the user can directly access the site's webpages.
- The "search" tool that allows the user to filter the content of the website based on user provided keywords.
- The "Get in Touch" button that redirects the user to the webpage allowing the former to send a message to the project team at the email address info@nemecys.eu

Particularly in the case of the homepage, a ribbon is displayed on top of the header with icons redirecting the visitor to the project's official social media accounts (i.e., Twitter, and LinkedIn) as well to the project's email address. Figure 2 below shows a screenshot of the NEMECYS website header.

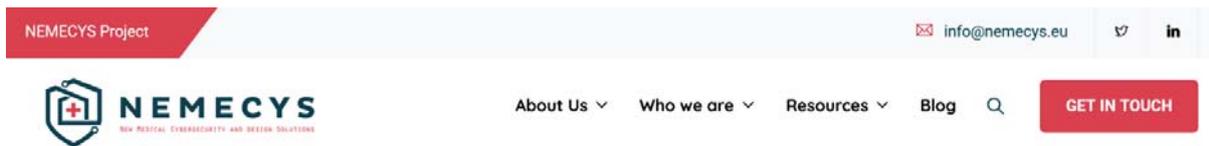


Figure 2: NEMECYS website header.

4.2 Footer

The footer is located at the bottom of every webpage of the website, and contains the following elements:

- "About Us" with a brief paragraph describing the NEMECYS project.
- "Recent Tweets", a Twitter widget that retrieves and displays the most recent tweets of the project's Twitter account.
- "Latest Posts", a blog widget that retrieves and displays the most recent blog posts posted to the blog section of the webpage.
- "Contact Us" displays information on how to contact the NEMECYS Project Coordinator.
- The EU Emblem with the "Co-funded by the European Union" disclaimer.
- The Copyright notice.
- A link to the website's Privacy Policy.
- A link to the website's Cookie Declaration.
- A link to the website's Terms of Usage.

Figure 3 below shows a screenshot of the NEMECYS website footer.

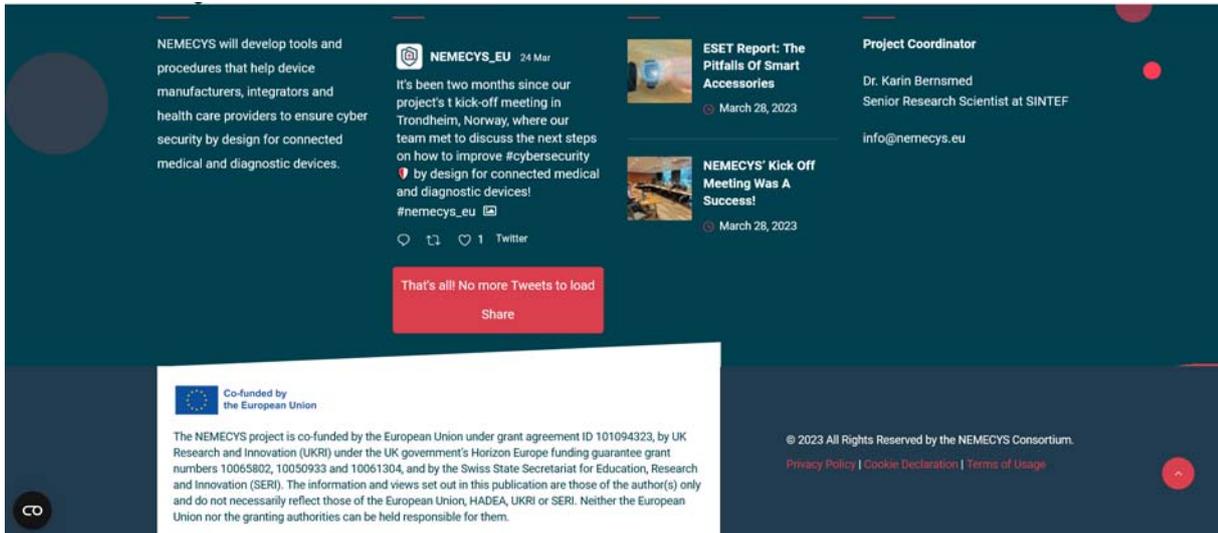


Figure 3: NEMECYS website footer.

4.3 Homepage

The homepage comprises several elements described in the subsections below, providing a brief overview of the project and its activities, as well as hyperlinks to key pages of the website. The elements are arranged vertically, and the parallax Visual FX is implemented so that when the visitor scrolls down the webpage and the elements move up, a static image is placed between the moving elements, thus producing a captivating result.

4.3.1 Slider with images

The top part of the homepage hosts an animated slider composed of three images, with each one of the images featuring a slogan and a button redirecting the visitor to the webpages "Overview", "Resources/Material" and "Who We Are" as presented in the following figures (Figure 4, 5 and 6).



Figure 4: NEMECYS website homepage: Slider with images (1st slot).



Figure 5: NEMECYS website homepage: Slider with images (2nd slot).

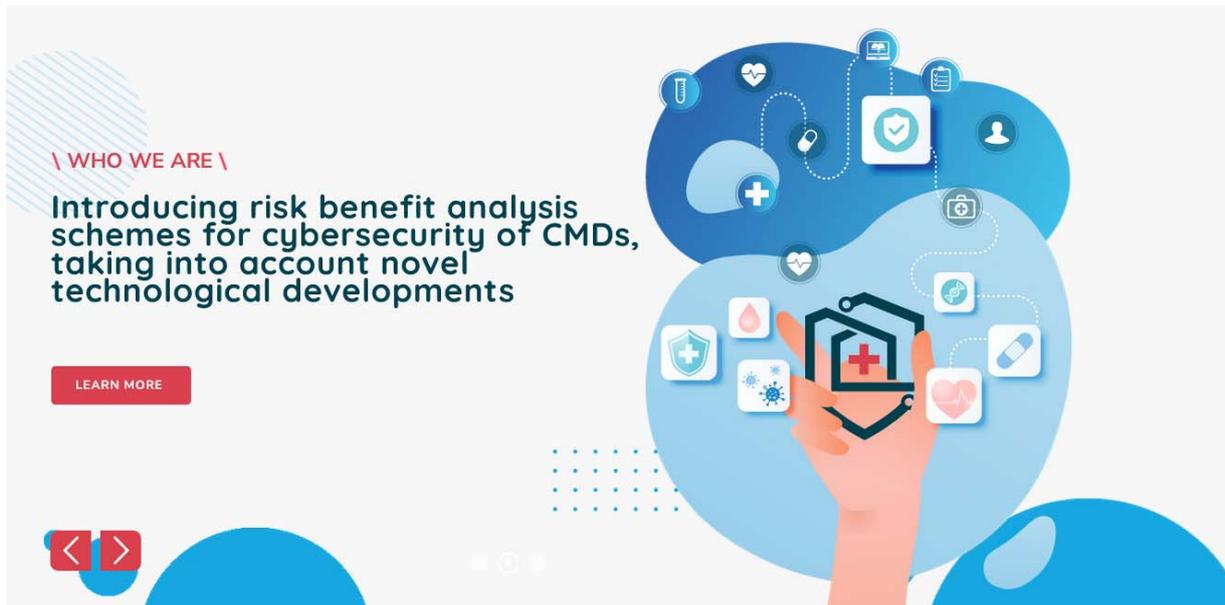


Figure 6: NEMECYS website homepage: Slider with images (3rd slot).

4.3.2 Welcome

The “Welcome” part of the webpage hosts a welcome message to the project’s website and a link to the “Overview” and provides a short overview and links to the project’s “Use Cases”, “Impact” and “Partners” webpages as presented in the figure below (Figure 7).

\ About us \

Welcome to NEMECYS Project

Personalised healthcare services are the future and secure connected medical devices will play a critical role. NEMECYS is a Horizon Europe project that aims to revolutionise the "security-by design" aspect of connected medical devices, by developing new cybersecurity assessment techniques and tools.

LEARN MORE



Case Studies

Four use cases are set to ensure that we are working according to the needs of future users and stakeholders, to guide development processes and to validate the proposed procedures and tools.

READ MORE



Expectations

To develop toolboxes for three stakeholder groups, covering the three essential phases of the lifecycle of connected medical devices: Design & development deployment & integration of connected MD scenarios and operation.

READ MORE



Who we are

A unique collaboration of EU and non EU experts, providing their valuable expertise on domains like cybersecurity risks, IoT enabled healthcare provision medical device manufacturing, computer science research and IT system integration.

READ MORE

Figure 7: NEMECYS website homepage: Welcome message.

4.3.3 Our blog / "Must read"

The latest posts part of the homepage (Figure 8) displays the two most recent blog posts and provides direct access to the blog section of the website.

\ Our Blog \

Must Read



NEMECYS' kick off meeting was a success!

Read More



ESET report: The pitfalls of smart accessories

Read More

Figure 8: NEMECYS website homepage: Our blog / "Must read" section.

4.4 About Us

The "About Us" section of the NEMECYS website consists of three subsections (i.e. "Overview", "Use Cases", and "Impact") that are presented in the following subsections of the document. On the right side of the webpage, a navigation panel features links to the aforementioned three subsections, so that the visitor can easily navigate amongst them.

4.4.1 Overview

In this webpage (Figure 9), the project outline and objectives are briefly presented:

Overview

Home > About Us > Overview

NEMECYS Project

Medical and Diagnostic devices are increasingly being connected to the internet, and this implies that they are being exposed to cyber threats that ultimately could affect the well-being of patients.

The European health care system is moving toward personalised, distributed, and home-based services. This is made possible via new and improved connected medical devices (CMDs) and in vitro diagnostic devices, connected to the internet (together, CMDs), that support health care providers in terms of reduced cost (fewer hospital beds) and improved service.

Also, patients are expected to enjoy improved quality of life in terms of reduced travel time and less stress via treatment at a place of their choice. However, for these benefits to be fully realised, the cybersecurity of CMDs needs to be ensured.

NEMECYS project will develop tools and procedures to help device manufacturers, integrators and health care providers to ensure cyber security by design for connected medical and diagnostic devices.

About NEMECYS

- Overview
- Use Cases
- Impact

- + How will NEMECYS benefit health practitioners?
- + What does NEMECYS aim for?
- + What to expect from NEMECYS?

Figure 9: NEMECYS website homepage: "Our blog / "Must read" section.

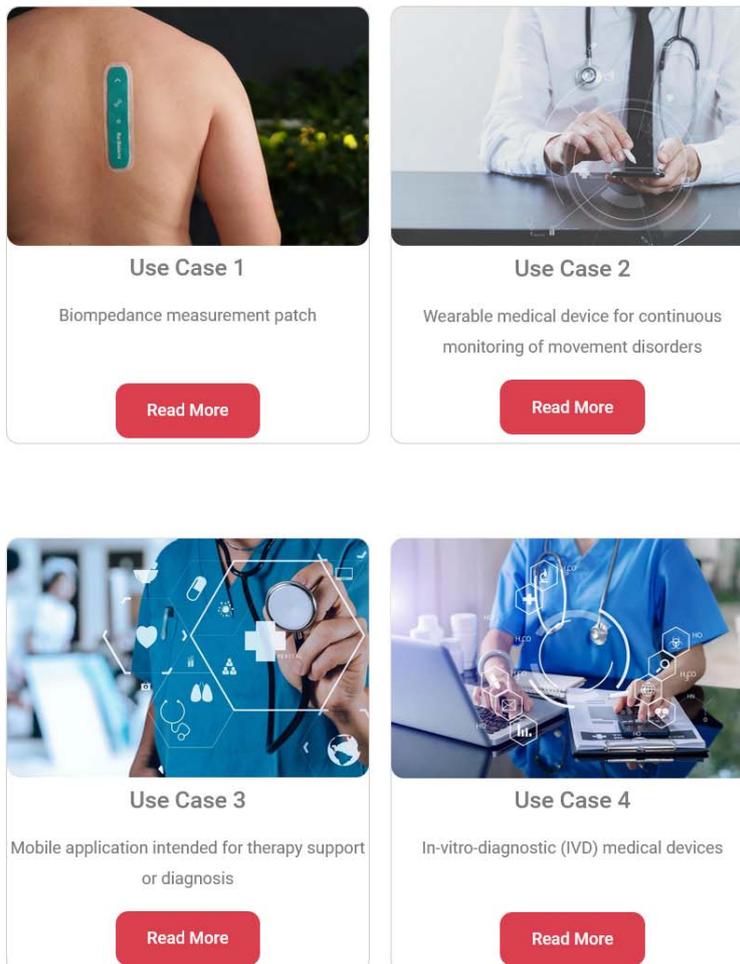
4.4.2 Use cases

In this webpage the four NEMECYS use cases are introduced (Figure 10):

NEMECYS Use Cases

For futureproofing the project's findings, 4 different use cases have been defined to serve the following purposes:

- a basis for requirements elicitation for risk benefit analysis schemes and cybersecurity by design toolboxes (early phases of NEMECYS);
- identifying gaps in existing cybersecurity by design standards/guidelines/best practices;
- and validating the risk benefit analysis schemes and toolboxes developed in NEMECYS (later phases).



The screenshot displays a webpage layout with four use case cards arranged in a 2x2 grid. Each card features a top image, a title, a description, and a red 'Read More' button.

- Use Case 1:** Image of a person's back with a green biopedance measurement patch. Title: Use Case 1. Description: Biopedance measurement patch. Button: Read More.
- Use Case 2:** Image of a doctor in a white coat using a smartphone with a stethoscope. Title: Use Case 2. Description: Wearable medical device for continuous monitoring of movement disorders. Button: Read More.
- Use Case 3:** Image of a doctor in blue scrubs holding a stethoscope with a mobile application overlay. Title: Use Case 3. Description: Mobile application intended for therapy support or diagnosis. Button: Read More.
- Use Case 4:** Image of a doctor in blue scrubs using a laptop with a molecular structure overlay. Title: Use Case 4. Description: In-vitro-diagnostic (IVD) medical devices. Button: Read More.

Figure 10: NEMECYS Use cases webpage.

Each Use Case has a dedicated webpage as presented in the following figures (Figure 11, 12, 13 and 14).

NEMECYS Use Case 1

This case study is built around MODE's bioimpedance measurement patch. Patients with End Stage Kidney Disease (ESKD) have little or no kidney function left, and thus fluid and waste accumulate in the body. The patient will gradually depend on removal of waste products and extra fluid during dialysis. This is best for the body if performed frequently.

For practical and logistic reasons, this is difficult to achieve in a hospital. Home dialysis can offer better flexibility, as it can adapt to times when it is more convenient for the patient, and also reaps other benefits of being at home and not in hospital, such as elimination of travel time.

Challenge

The challenges are: secure wireless transfer of data from the bio-impedance patch to the gateway, and secure transfer of data from the gateway to the health care system for further analysis.

We need a secure conduit for updating the software and a secure way to do post-market surveillance to verify usage according to intended purpose as well as providing an option for user feedback without compromising patient confidentiality and data security

Figure 11: NEMECYS Use case 1 webpage.

NEMECYS Use Case 2

This case study is built around PD Neurotechnology's wearable medical device for continuous monitoring of movement disorders, such as Parkinson's disease.

The PDMonitor device aims at improving the treatment of patients suffering from Parkinson's disease by tracing, recording and processing a variety of symptoms (such as postural instability, gait disturbances, ON/OFF conditions, etc.).

The solution complements this data with other information on lifestyle and drug adherence which is collected via a mobile app on the patient's phone. This gives to the physician a comprehensive view of the patient's disease progression and enables her to modify and customize the therapy accordingly.

Challenge

The architecture of the solution is a common setup for IoT devices, with associated cybersecurity risks. In particular, the use of Linux or Windows based embedded Operating Systems, can lead to unwanted exposure to attacks, because they often come with more interfaces than required, and might not be hardened properly.

In addition, exploits targeting them are often an "available target" in security tools, making them easy to attack with very little skill. These issues only grow with time if the system is not updated. Another common problem found in such IoT system is the physical security of the different devices deployed "in the wild".

Attackers might want to leverage a compromised device (such as the PDSmartbox) to attack the whole ecosystem, and it is a real challenge for manufacturers to establish the right level of security.

Figure 12: NEMECYS Use case 2 webpage.

NEMECYS Use Case 3

Debiotech provides medical device development services, with strong competencies in mobile applications, either in Software as a Medical Device (SaMD) scenarios, or as a part of a larger system. Debiotech can offer the solution to a growing number of customers who need cybersecurity in their mobile software applications.

This case study is built around the development and use of a Class IIb mobile phone application capable of connecting to other medical devices and to a remote server.

Challenge

A mobile application intended for therapy support or diagnosis is an active medical device according to the classification rules of the MDR. Mobile phones are an uncontrolled environment. The patient can install whatever applications they wish, and this increases the difficulty linked to ensuring the safe operation of a phone application.

The main challenge is to maintain the patient's freedom to use their phones while providing a high level of security for the medical application. The overall level of cybersecurity in a clinical setting not only depends on the level of security implemented on the device itself, but a holistic approach is also needed to address the entire environment.

Therefore, the implementation of the server part of the solution will need to consider factors such as the healthcare provider's infrastructure, its organization, and operational factors

Figure 13: NEMECYS Use case 3 webpage.

NEMECYS Use Case 4

This case study is built around in-vitro-diagnostic (IVD) medical devices. These devices are tests used on biological samples to determine the status of a person's health.

There is a broad range of such devices, from self-tests for pregnancy, blood glucose tests and iron-deficiency tests, to sophisticated diagnoses performed in clinical laboratories. Other examples of IVDs are HIV tests or COVID-19 tests.

This case study mainly focuses on the former category, that is, self-tests.

Challenge

The proposed case study involves data exchange between patients' personal IVD medical devices and the hospital infrastructure, to collect patients' information that is monitored over time outside the hospital premises.

In general, medical devices are felt safer than other devices (e.g., computers, tablets, smartphones), since their connection and data handling mechanisms are standard. However, though they contain very sensitive data, they are not monitored by the hospital staff for long periods.

Every time the hospital infrastructure contacts these devices, risks of sensitive data exposure and infrastructure damage grow. Thus, appropriate measures for recognizing and reducing these risks need be put in place.

Figure 14: NEMECYS Use case 4 webpage.

4.4.3 Impact

In this webpage (Figure 15), the expected impact of the project is presented per target stakeholder group:



NEMECYS Impact

The beneficiaries of the NEMECYS project results are first and foremost in the healthcare industry, in particular medical device manufacturers, suppliers and integrators, and health care providers and operators. Also targeted are advisory bodies (notably the MDCG) and regulators, and patients and society as a whole. Additional target groups are the scientific community and cybersecurity experts.

- + Medical device manufacturers, suppliers and integrators
- + Healthcare providers and operators
- + Patients
- + Advisory bodies and regulators
- + Society
- + Research and scientific communities
- + Security experts

Figure 15: NEMECYS “Impact” webpage screenshot.

4.5 Who we are

The “Who We Are” section of the NEMECYS website presents the partners of the NEMECYS project consortium.

4.5.1 Partners

The “Partners” webpage (**Error! Reference source not found.**) presents the project consortium. All partners’ logos are displayed and links to their official websites and social media are provided³.

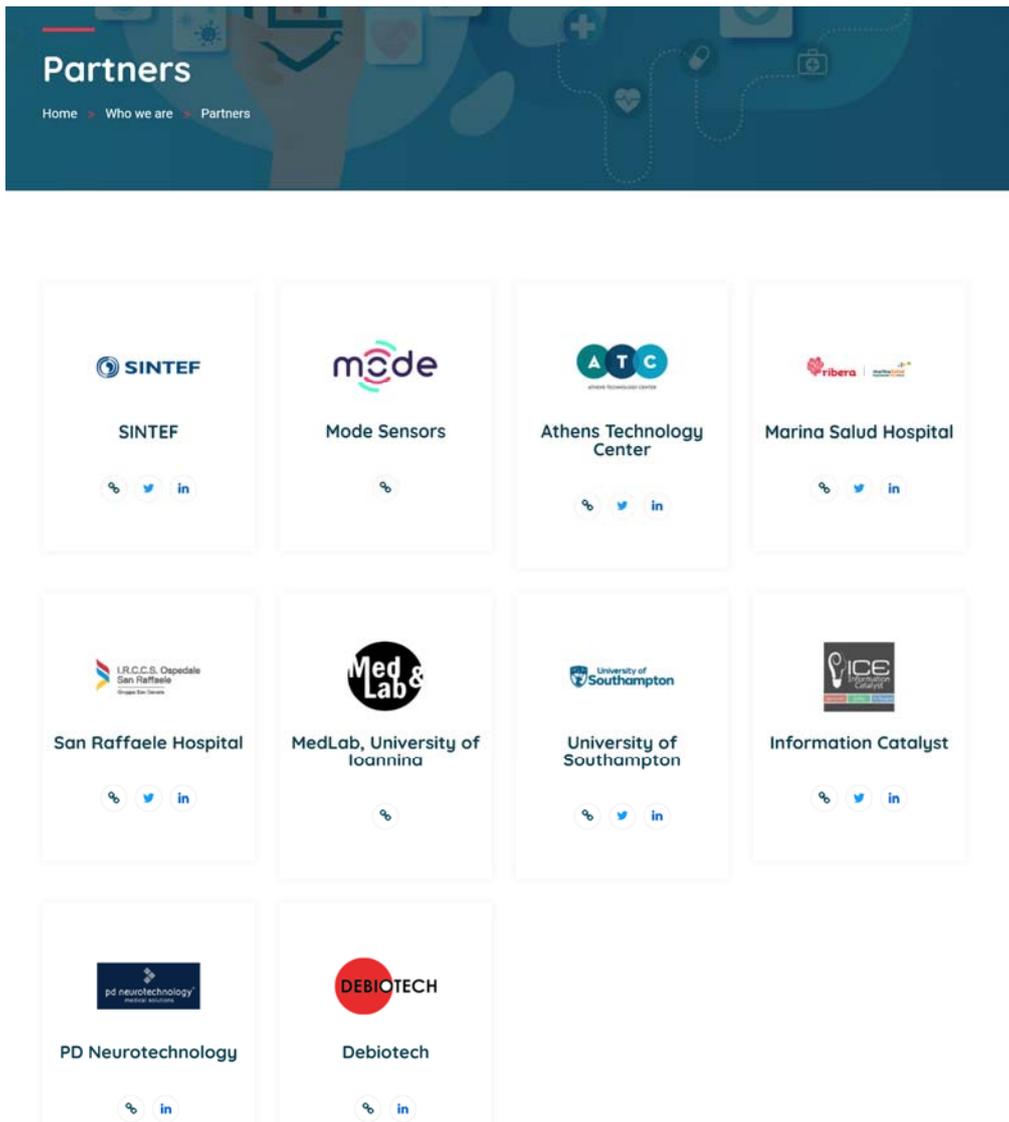


Figure 16: NEMECYS “Impact” webpage screenshot.

³ Project partner IBM's logo is missing in Figure 16. It will be added to the website as soon as the required permissions have been granted.

4.6 Resources

The “Resources” section of the NEMECYS website consists of three subsections (i.e., “Material”, “Public Deliverables”, and “Publications”) that are presented in the following subsections of the document. On the right side of the webpage, a navigation panel features links to the aforementioned three subsections, so that the visitor can easily navigate amongst them.

4.6.1 Material

Through the “Material” webpage (Figure 20) the NEMECYS project brand kit is available. The brand kit is a .zip file that contains the project logo and the NEMECYS brand manual.



Figure 17: NEMECYS “Impact” webpage screenshot.

4.6.2 Public deliverables

Through the “Public Deliverables” webpage (Figure 18), the public deliverables that will be produced will be made available.



● D1.1 Systematic review of documentation (initial)	Download
● D1.2 Systematic review of documentation (final)	Download
● D1.3 Recommendations	Download
● D2.1 Risk Benefit Schemes (initial)	Download
● D2.2 Risk Benefit Tooling (initial)	Download
● D2.3 Risk Benefit Schemes (final)	Download
● D2.4 Risk Benefit Tooling (final)	Download
● D3.1 Requirements for toolboxes in the healthcare sector	Download
● D3.2 Toolboxes for healthcare stakeholders (initial)	Download
● D3.3 Toolboxes for healthcare stakeholders (final)	Download
● D3.4 Documentation and training material	Download
● D4.1 Validation of all case studies (initial)	Download
● D4.2 MDCG 2019-16 case study feedback	Download
● D4.3 Validation of all case studies (final)	Download
● D5.1 Dissemination & Communication Plan	Download
● D5.2 Exploitation plan (initial)	Download
● D5.3 Report on Dissemination and Communication Activities (first)	Download
● D5.4 Report on Dissemination and Communication Activities (final)	Download
● D5.5 Exploitation plan (final)	Download
● D5.6 Project public website	Download
● D6.1 Data Management Plan (Initial)	Download
● D6.2 Ethics Management Plan	Download
● D6.3 Data Management plan (final)	Download

Figure 18: NEMECYS “Public deliverables” webpage screenshot.

D5.6 Project public website

The NEMECYS project is co-funded by the European Union, by UK Research and Innovation (UKRI) and by the Swiss State Secretariat for Education, Research and Innovation (SERI).

4.6.3 Publications

The “Publications” webpage (Figure 19) will provide access to the project’s publications that will be uploaded throughout the project’s duration.

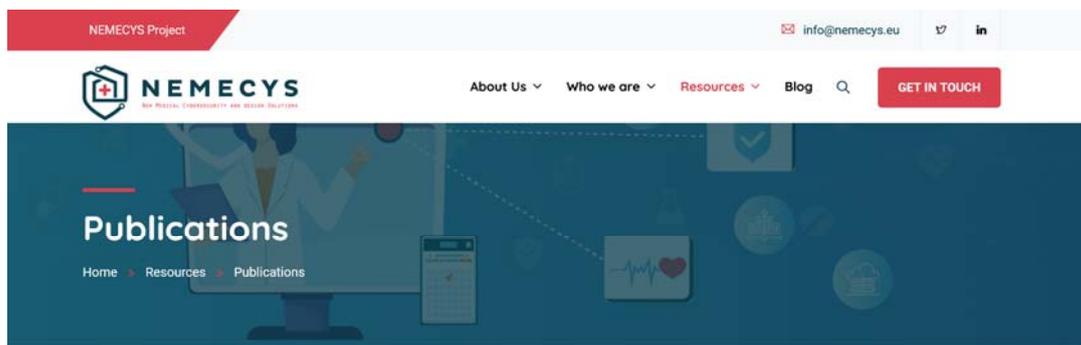


Figure 19: NEMECYS “Public deliverables” webpage screenshot.

4.6.4 Blog

The “Blog” section of the website, as presented in Figure 20, will provide news items throughout the project’s duration.

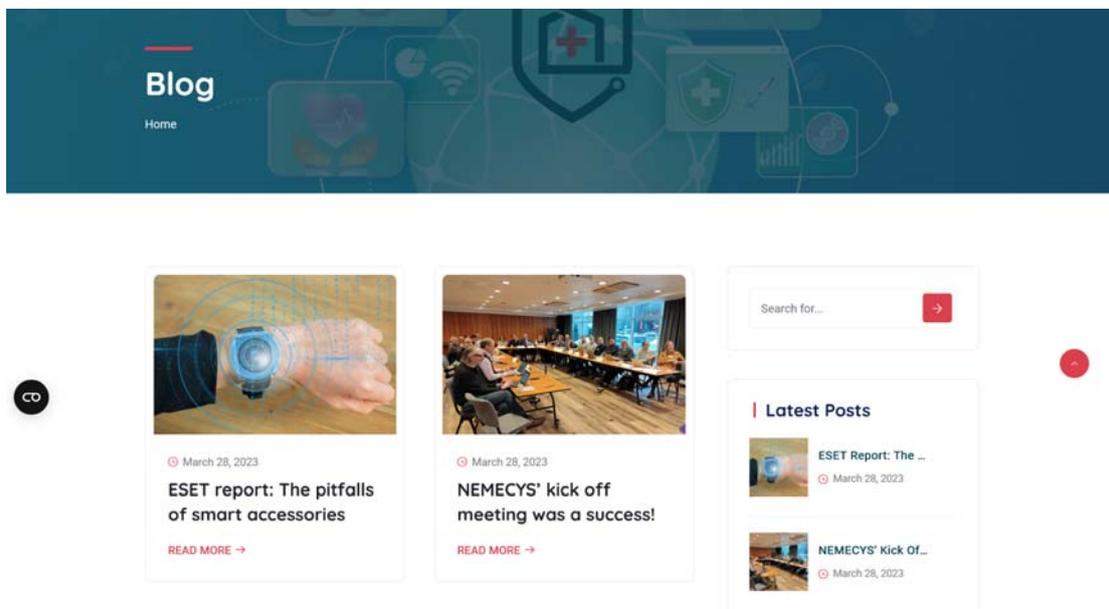


Figure 20: NEMECYS “Blog” section screenshot.

In Figure 21 below, a single selected blogpost is displayed. On the right-hand side of this section, the user can navigate to the Latest Posts while also using the search button functionality.

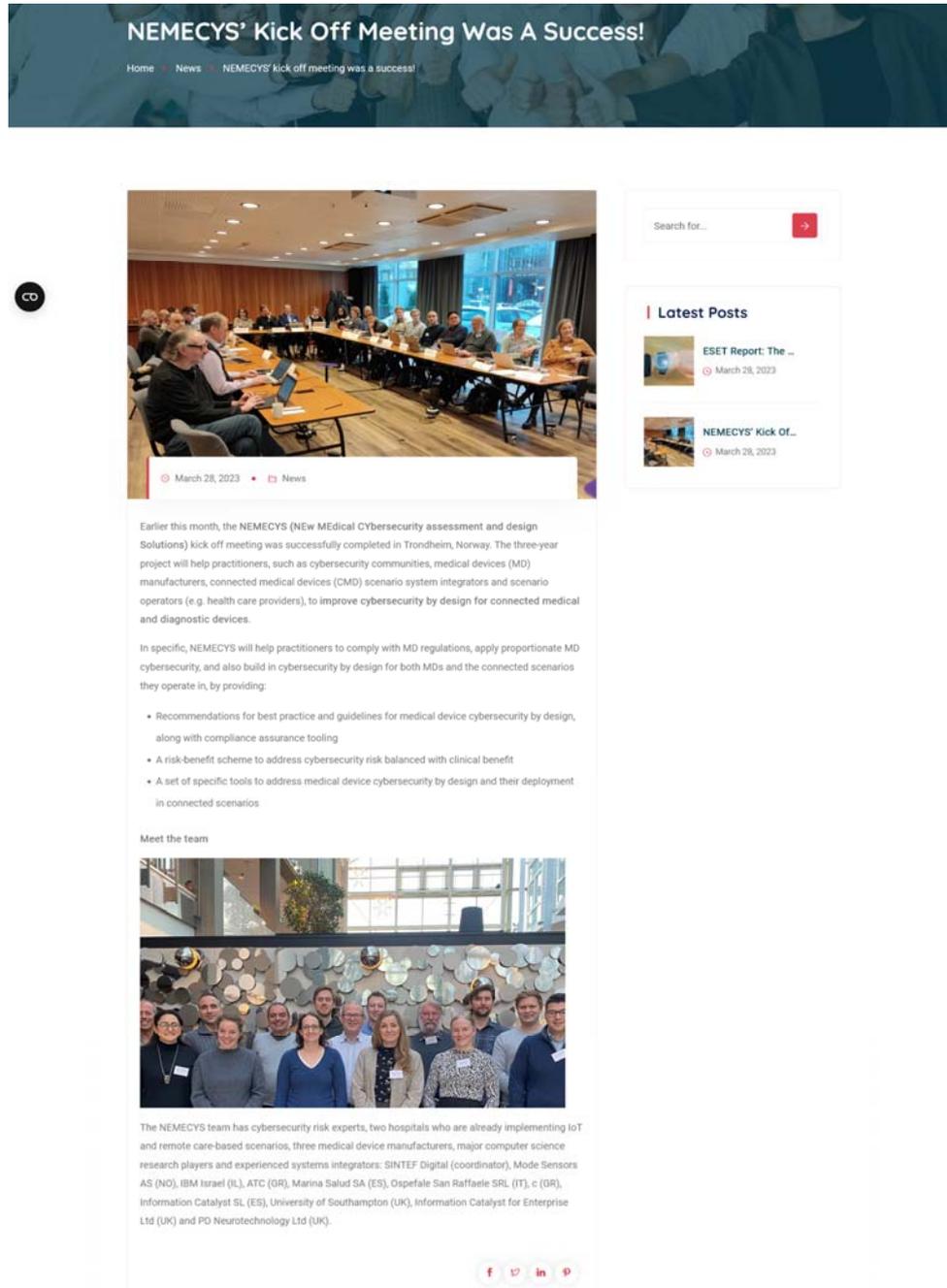
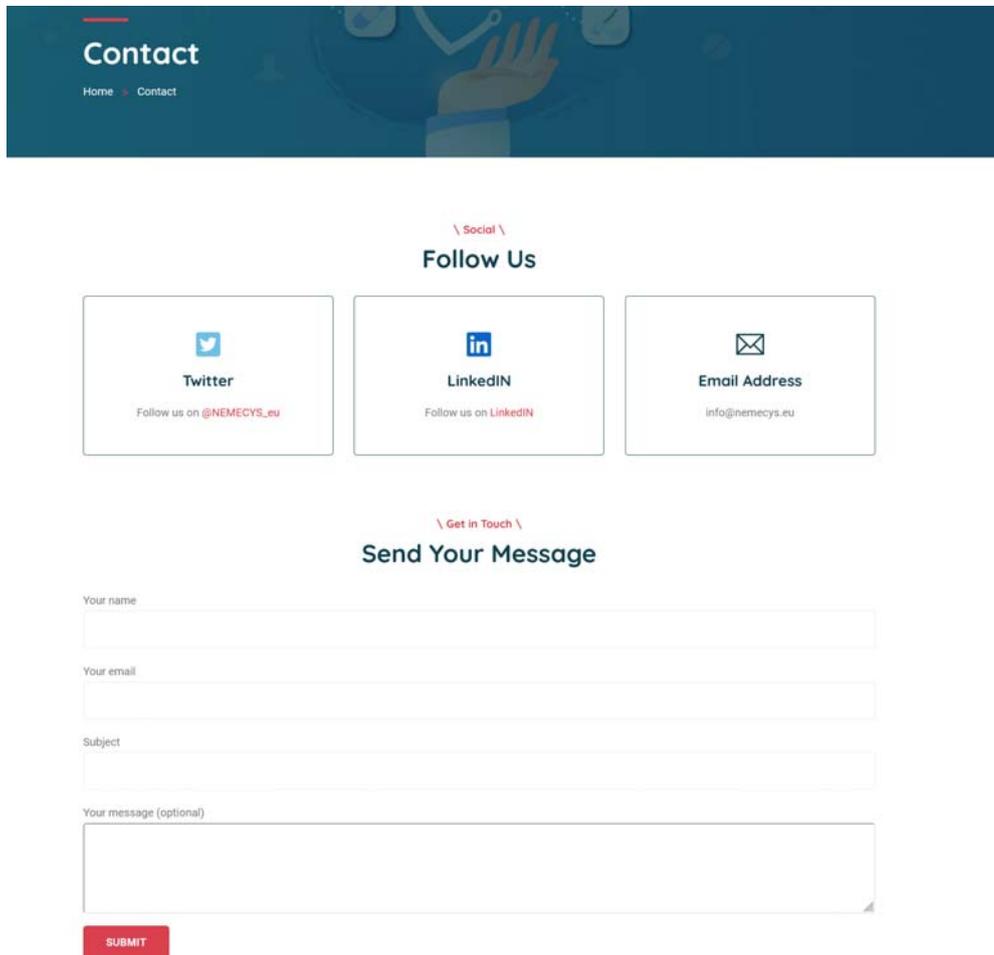


Figure 21: NEMECYS Blogpost screenshot.

4.7 Contact

Through the “Contact” webpage (Figure 22), the visitor can follow the project’s social media send a message to the project team at the email address info@nemecys.eu.



Contact
Home > Contact

Follow Us

- Twitter**
Follow us on @NEMECYS_eu
- LinkedIn**
Follow us on LinkedIn
- Email Address**
info@nemecys.eu

Send Your Message

Your name

Your email

Subject

Your message (optional)

SUBMIT

Figure 22: NEMECYS “Contact” webpage screenshot.

5 Conclusions

The NEMECYS website was made publicly available in the early stages of the project (23rd June 2023) and is the most important dissemination channel for the project results and for spreading the work and findings of NEMECYS to the targeted stakeholder groups. The NEMECYS website will be maintained and updated on a regular basis throughout the project's duration.