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Smart Implants for Life Enrichment

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Public project website

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Document History

Version	Date	Description
V1	30/04/2025	First submission
Vx		
Vx		

¹ **Type:** Use one of the following codes (in consistence with the Description of the Action):

- R: Document, report (excluding the periodic and final reports)
- DEM: Demonstrator, pilot, prototype, plan designs
- DEC: Websites, patents filing, press & media actions, videos, etc.

² **Dissemination level:** Use one of the following codes (in consistence with the Description of the Action)

- PU: Public, fully open, e.g. web
- SEN: Sensitive, limited under conditions of the Grant Agreement

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Summary

This deliverable shortly describes the initial set-up of the SmILE public project website with screenshots of the main pages attached in the annex. The website can be accessed via: <https://horizon-smile.eu>.

1 Introduction

Providing information about SmILE's objectives and work, as well as the results achieved over the course of the project's lifetime, is of utmost importance to foster the project's success.

The SmILE public website is the project's primary tool for communication about the project and disseminating results. It aims to reach the broader public, as well as stakeholders and scientists in the musculoskeletal non-communicable diseases field and increase awareness of the project's activities and future outcomes. As part of WP8: "Communication, Dissemination, Exploitation and Sustainability", has been developed by the EURICE communications team with contributions from the consortium members and went online on 30/04/2025.

2 SmILE Website: Structure, Content and Design

The SmILE website is directed at the general public as well as different stakeholders with an interest in the project and its activities, progress, outcomes and innovations. Such stakeholders include the scientific and medical research community, hospitals and clinics (medical staff, geriatricians, orthopaedists and rehabilitation specialists), patients and their families, the medical device and digital health industries, healthcare policymakers and patient advocacy groups.

The website provides key facts about SmILE, outlines the project's objectives, approach and desired impact, as well as information on structural organisation and project bodies. Moreover, there is a dedicated section explaining musculoskeletal non-communicable diseases (MSK-NCDs), while another presents the members of the project consortium. The website also includes a section on project-related events and news, as well as the link to the project LinkedIn page. The funding acknowledgement, imprint (including the mandatory disclaimer) and privacy statement are found at the bottom of the website on all pages.

In sum, the project website provides the following main features and content (see also the screenshots in the annex):

1. **Home:** Main page and entry point to the SmILE website. Featuring a photo of an older woman exercising alongside the concise project tagline, "Smart solutions for enhanced bone & joint health in an ageing population," the page effectively introduces visitors to the project's mission. It also provides a brief introductory text and key facts about the project and its consortium.
2. **Project:** As the main page for specialized audiences, it contains four different sub-pages dedicated to the project's *Objectives* (presented with engaging icons), *Approach* (explained through clear text), *Structure* (illustrated with an interactive graphic), and *Impact* (outlined using an accordion layout).
3. **What are MSK-NCDs:** Intended as a session for non-specialized audiences, it explains what musculoskeletal non-communicable diseases (MSK-NCDs) are, outlines common conditions and highlights their physical, mental and societal impact, particularly in ageing populations. It underscores the importance of holistic care to improve quality of life and reduce healthcare strain.
4. **Who we are:** Contains two sub-pages, one with an overview of all participating organisations (dedicated partner pages and a visualization of partner locations) and another with contact information.

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5. **Events & News:** This section will regularly be updated with news and events from the SmILE consortium, as well as important updates and developments related to musculoskeletal health, ageing and digital healthcare.

The design of the SmILE website follows a clear and modern visual identity aligned with the project's overall communication strategy. To highlight clarity and accessibility, the layout incorporates large-format images, animated graphics and custom icons to create a visually engaging experience. These design elements enhance the website's aesthetic appeal and support the communication of complex scientific content in a way that is approachable for non-specialist audiences. Intuitive navigation and responsive design ensure that the site remains user-friendly across devices and platforms.

3 Conclusion

The website and the LinkedIn account are online and ready to provide information to the interested public. They are aligned with the project's corporate identity and ensure that the site is appealing, efficient and intuitive. Since the development of the website is a continuous task, the website as presented in this deliverable is to be considered as a snapshot – content will be regularly updated, enriched and expanded. Additional information and subpages will be introduced in the course of the project delivery.

4 Annex I - Screenshots

(1) Home



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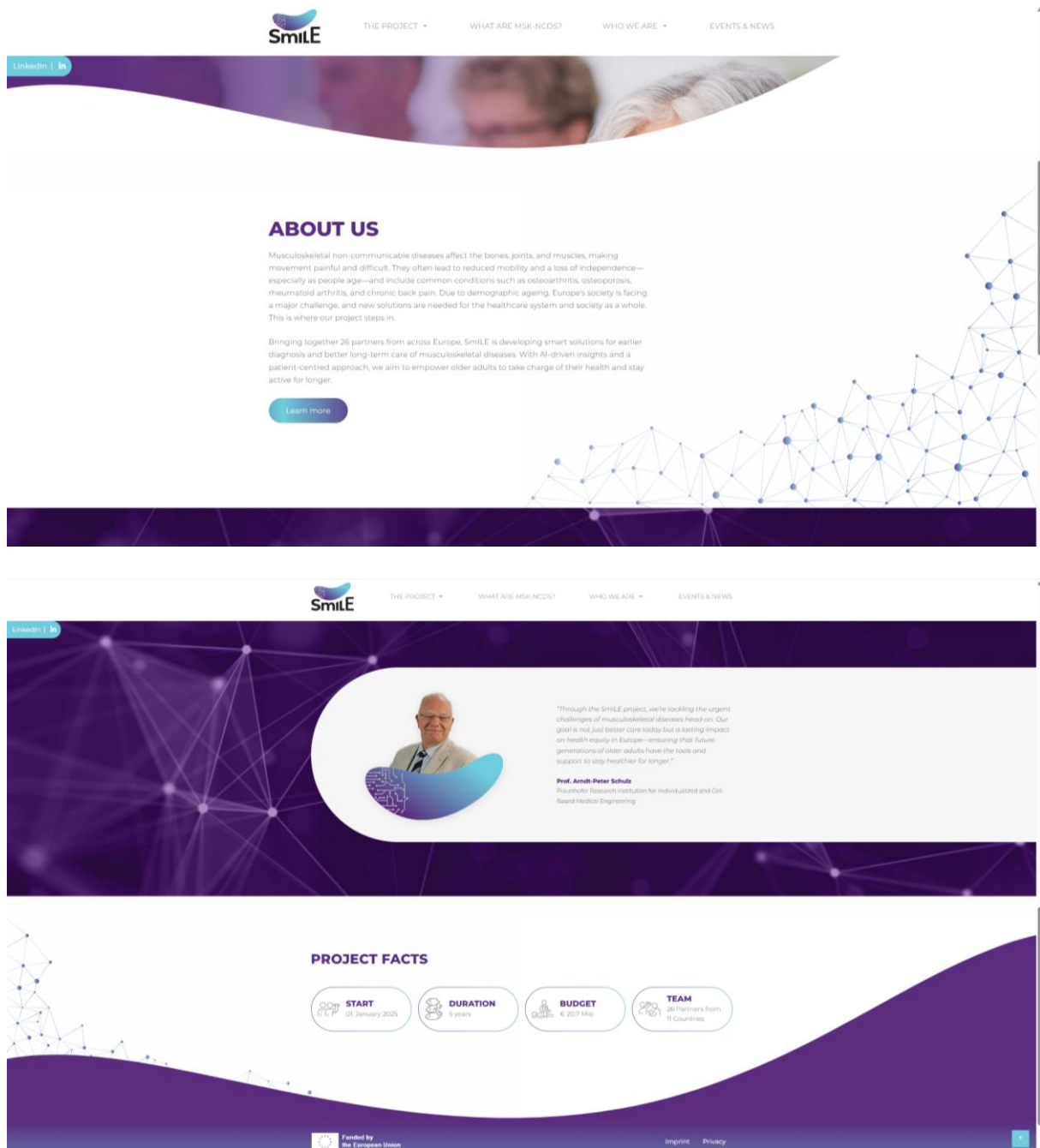


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(2) Project



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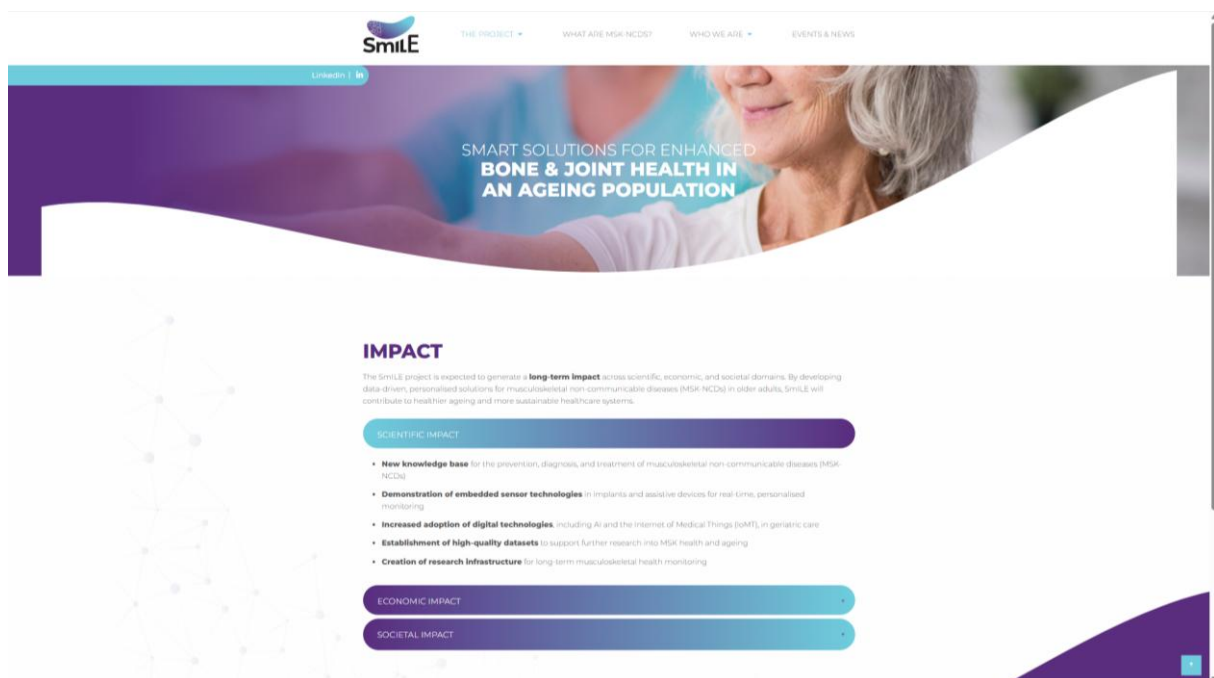


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SmiE

The Project • Our Vision • What We Need • Where We Are Now • Events & News

Landing Page

SMART SOLUTIONS FOR ENHANCED BONE & JOINT HEALTH IN AN AGEING POPULATION

WHAT ARE MSK-NCDS?

Musculoskeletal Noncommunicable Diseases (MSK-NCDs) are long-term health conditions that affect the body's musculoskeletal system, involving **muscles, bones, joints,** and **connective tissues.** "Non-communicable" means that these conditions are not infectious and cannot be transmitted. In fact, they typically develop or worsen with age.

Over half **1.7 billion people** are affected, and conditions such as low back pain, osteoporosis, and osteoarthritis are becoming increasingly common – especially among older adults in Europe, where populations are rapidly ageing. MSK-NCDs pose a significant challenge for healthcare systems and society.

COMMON MSK-NCDS

- Osteoarthritis** — Degeneration of joint cartilage, leading to pain and stiffness
- Rheumatoid arthritis** — An autoimmune disease that causes inflammation of joint linings
- Osteoporosis** — A condition that weakens bones, increasing the risk of fractures
- Fractures and injuries** — Often the result of falls or weakened bones
- Low back and neck pain** — Common across all age groups, but particularly debilitating in older life

THE CHALLENGE OF MULTIMORBIDITY

MSK-NCDs often occur alongside other long-term conditions—a situation known as **multimorbidity**. When one condition is treated in isolation, care can become fragmented and less effective, resulting in poorer outcomes and increased strain on healthcare systems. As life expectancy rises, providing coordinated, holistic care is becoming increasingly important to maintain mobility, prevent complications, and support quality of life in older ages.

THE MENTAL HEALTH DIMENSION

Coping with MSK-NCDs often means coping with persistent pain, reduced mobility, and a loss of independence—all of which can lead to a profound impact on mental health. Conditions like osteoarthritis and osteoporosis are often linked to feelings of **depression, anxiety,** and **social isolation,** especially in older adults. These mental health effects can, in turn, worsen physical symptoms, creating a cycle that is difficult to break. Addressing both the physical and psychological aspects of MSK-NCDs is, therefore, crucial for enhancing overall health and promoting long-term recovery.

WHY DOES TACKLING MSK-NCDS MATTER?

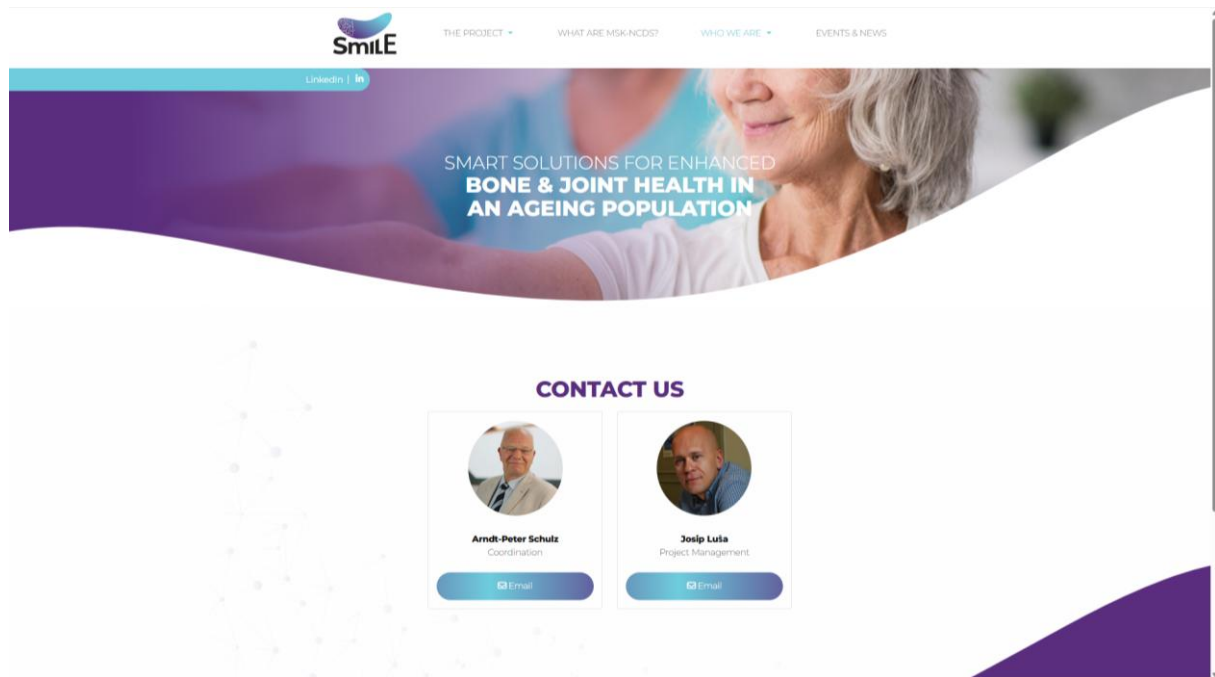
Improving musculoskeletal health:

- Helps older adults remain active and independent for longer
- Reduces the need for long-term care and hospitalisation
- Lessons healthcare costs associated with chronic conditions
- Supports mental and emotional well-being
- Enhances overall quality of life

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(5) Events & News



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