

AI4LUNGS 3rd Press Release

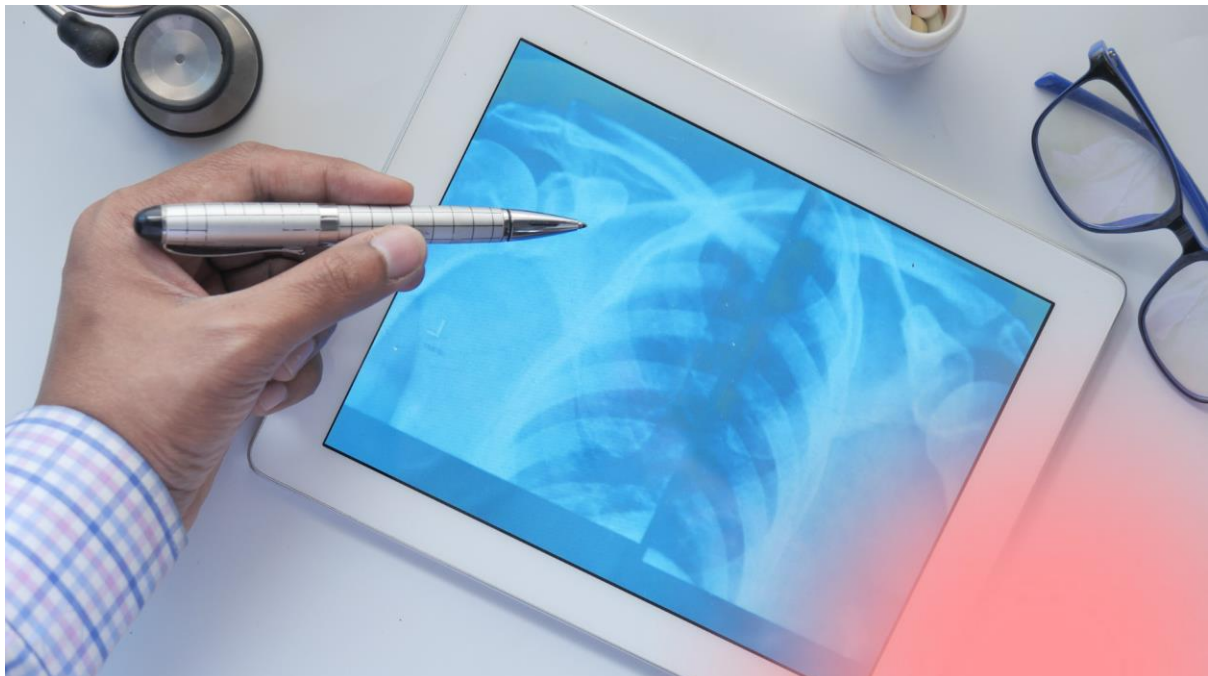
07 August 2025

From Data to Diagnosis: How AI Is Shaping the Next Generation of Lung Healthcare

In a world where healthcare systems are under pressure, can artificial intelligence (AI) help doctors make faster, smarter decisions and save more lives? [AI4LUNGS](#), an EU-funded research project, is working on exactly that.

AI4LUNGS is using AI tools to support doctors in diagnosing and treating complex lung conditions like cancer and rare pulmonary diseases. Behind the scenes, 18 partners from across Europe- including hospitals, researchers, legal experts and technical engineers- are collaborating to build a smarter, more personalised healthcare system.

Entering the second year of project implementation, the first half of 2025 has brought meaningful progress, from starting the **digital twin platform** to **ensuring compliance** with new EU AI regulations.



Smarter Tools for Better Lung Care



Supported by technical and clinical partners, the development of the AI4LUNGS digital platform is under the way! The platform is designed to help doctors make faster, more accurate decisions.

To do this, AI4LUNGS collects **more than 2500 real-world patient records**, shared securely by our clinical partners, and turns them into smart insights to train AI models that offer tailored treatment suggestions through the platform designed with doctors in mind. Additionally, the platform includes an **AI-powered digital twin system** that can simulate different patient scenarios, offering tailored treatment suggestions based on real data.

A Responsible and Respectful Approach to Collecting Data

Collecting medical data could raise questions about privacy, fairness, and legal accountability. Thankfully, the legal and ethics partners [Timelex](#) and [Deloitte](#) ensure everything is built with responsibility and compliance from day one. A recent [partner training](#) was organised to present and discuss the EU AI Act, preparing the project for real-world deployment.

'It is crucial for the design and implementation of any AI tools to be aligned from the outset with the forthcoming requirements of the AI Act. This proactive alignment not only supports the potential for future commercialization of the project's results but also facilitates responsible testing under real-world conditions.' says Marta Wilińska, Legal expert from Timelex.

'By following strong digital ethical principles when integrating AI tools into clinical workflows, doctors retain full decision-making authority while leveraging AI for resource-intensive tasks such as diagnosis and treatment planning. This "human-in-the-loop" approach improves treatment outcomes and promotes sustainable healthcare systems.' says Marcel Rebbert, digital ethics expert from Deloitte.

Building the Future Together, Not Alone!

Leader of Dissemination, Communication, and Sustainable Exploitation of AI4LUNGS, [Future Needs](#) has been actively engaging for synergy projects that are working towards changing the future of healthcare, including [Microb-AI-ome](#), [CoMPaSS-NMD](#), [COMFORT EU Project](#), [ONCOVALUE](#), [SPACETIME](#), [dAlbetes](#), [INCISIVE](#), [TOLIFE](#), [LUCIA](#). The aim of creating synergies between projects is beyond promoting each other on social media; it goes deeper into knowledge



exchange, potential for privacy-compliant data sharing, and joint event and webinar participation.

Thanks to the collaboration, AI4LUNGS has been invited to join [dAlbetes](#), an EU-funded Project's workshop in Lisbon in November 2025. The participants will be able to meet our project coordinator, [INESC TEC](#), and attend the session hosted by them to learn more about digital healthcare and the AI4LUNGS project. More information will be shared on the AI4LUNGS [news page](#) in the following months.

"Building synergies with other EU projects that share a common mission is essential for accelerating progress. By working together, we grow faster and amplify our collective impact. We are currently planning a joint meeting with all [synergy project](#) coordinators under AI4LUNGS to explore ways of creating lasting change in the healthcare sector", says Emma Tsai, dissemination leader from Future Needs.

About AI4LUNGS

The AI4LUNGS project officially started on 1 January 2024, with a duration of 3.5 years. Funded by the European Union under the Horizon Europe Programme (Grant Agreement No. 101080756), the project has received €6.9 million. It focuses on computational models for new patient stratification strategies (RIA) under the HORIZON-HLTH-2022-TOOL-12-01-two-stage call. The consortium consists of 18 partners across 10 countries, working together to develop AI-driven solutions aimed at improving lung health.

Contact Information

If you are a doctor, hospital administrator, IT staff, and policy expert and are intrigued with what AI4LUNGS is doing, you can be part of the change! Join the Stakeholder Forum and help us ensure that the platform meets real clinical needs: <https://www.ai4lungs.eu/stakeholders-forum>

For more information, visit www.ai4lungs.eu or contact the project's Dissemination, Communication, and Sustainable Exploitation Leader at emma@futureneeds.eu.

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