

Main vision, mission, objectives and approach of the AI4HF project



AI4HF

Trustworthy Artificial Intelligence
for Personalised Risk Assessment
in Chronic Heart Failure

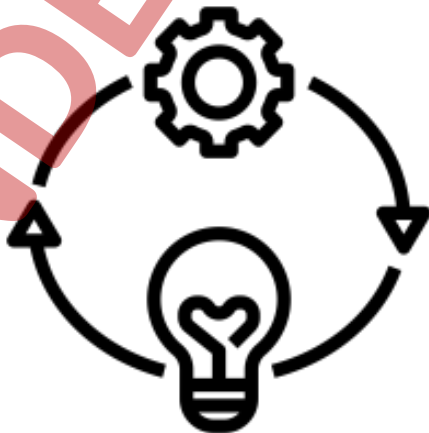


AI4HF is funded by the European Union's Horizon
Research and Innovation Programme under Grant
Agreement No. 101080430

Vision

Heart diseases are the leading cause of death worldwide, and heart failure is delicate to manage because it can be caused by many different things, show up in various ways, and progress differently in each person. HF can pose a risk from having a weaker heart and needing to go to the hospital often, to more serious problems like irregular heartbeats and even death.

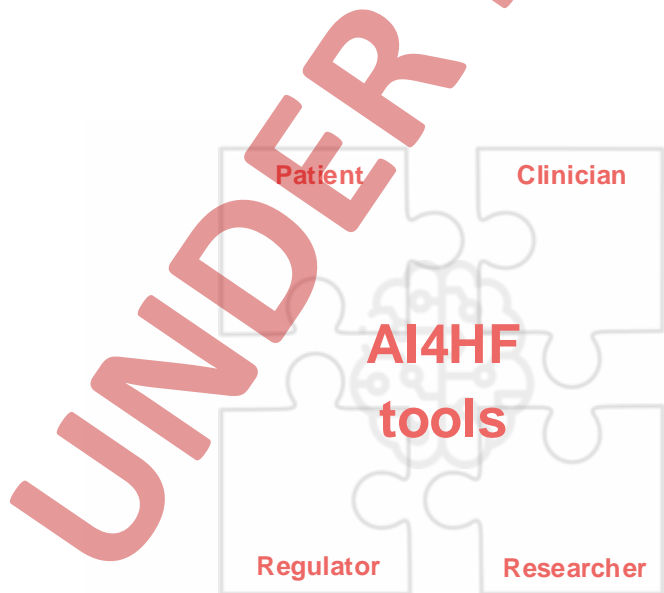
A personalized approach that adjusts treatment based on each person's specific situation is necessary to improve patient treatment. AI can help by analyzing various health data to predict future problems early. But right now, these AI tools aren't widely used in healthcare because they aren't fully trusted by doctors or patients.



Mission

AI4HF is working on creating a clear and ethical way to develop and test AI tools for heart failure. These tools will use a large amount of health data and advanced methods to understand the details of each patient's heart failure and predict how their condition might progress early on. This will assist doctors in providing personalized and timely care.

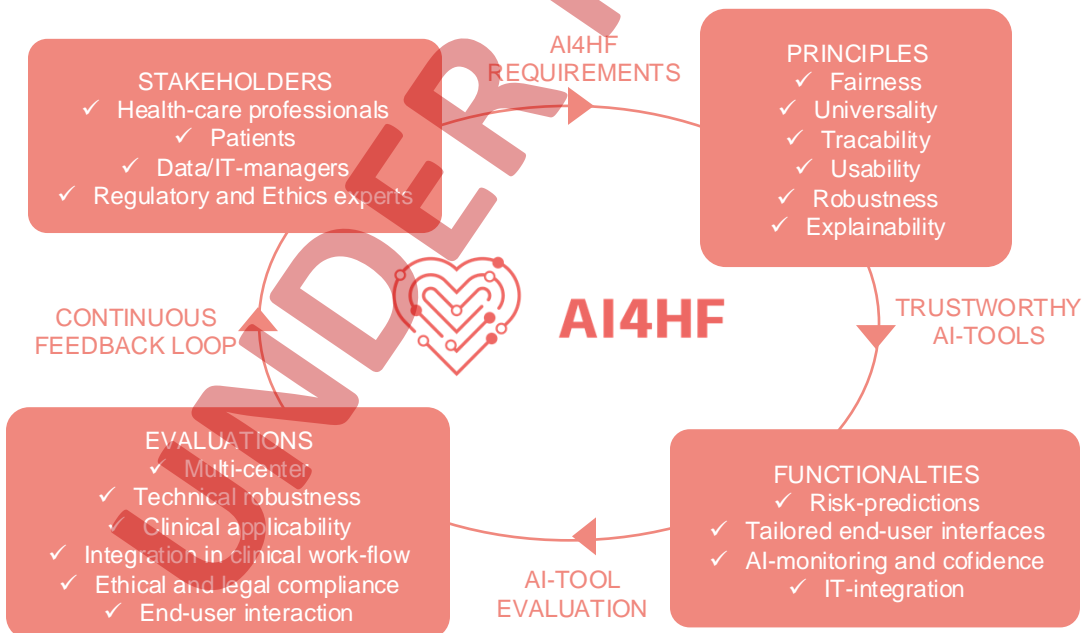
The AI4HF tools will be tested and reviewed by various experts in eight medical centers, around the world to ensure they are reliable and effective. The goal is for these AI tools to be trusted and used in real-life situations to benefit patients, doctors, and the broader community.



Objective and approach

The AI4HF project aims to create and test new AI tools to improve patient care, working closely with patients and healthcare professionals. To do this, they will use a large dataset of heart failure patients from Europe, South America, and Africa. This will help make sure the AI tools work safely and accurately for different groups of people and in various healthcare settings.

The project involves a team of people from different fields, including patients, healthcare professionals, researchers, and regulators. They all give feedback, which is shown in the figure below, to help develop trustworthy AI tools.





AI4HF

Trustworthy Artificial Intelligence
for Personalised Risk Assessment
in Chronic Heart Failure



AI4HF is funded by the European Union's Horizon Research and Innovation Programme under Grant Agreement No. 101080430