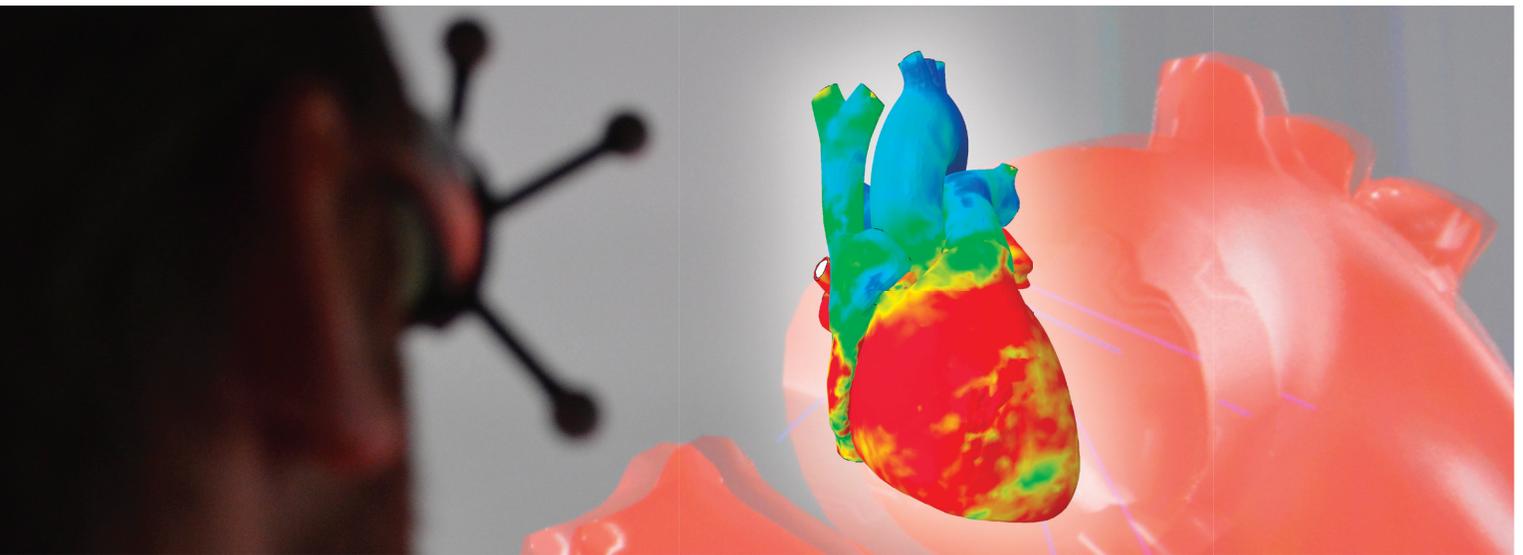




3DEXPERIENCE

# THE LIVING HEART PROJECT

*A TRANSLATIONAL RESEARCH INITIATIVE TO REVOLUTIONIZE  
CARDIOVASCULAR SCIENCE THROUGH REALISTIC SIMULATION*



## **IF WE APPLY THE POWER OF REALISTIC SIMULATION TO HUMAN MODELING, WE CAN REVOLUTIONIZE PATIENT CARE.**

What if doctors leveraged and relied on the same incredible 3D modeling and realistic simulation technology that the automotive, aerospace, energy, and hi-tech industries have used for decades to virtually design, test, and validate products and processes before they have been built or implemented?

Dassault Systèmes, the 3DEXPERIENCE® company that provides business and people with virtual universes to imagine sustainable innovations, has established the Living Heart Project with the aim of making this dream possible for cardiovascular care.

The Living Heart Project was formed to advance the development of safe and effective cardiovascular products and treatments by uniting engineering, scientific, and biomedical expertise to translate cutting edge science into improved patient care. Through simulation and the creation of validated models, the project aims to accelerate the use of science to provide personalized, interventional patient care.

Realistically simulating the behavior of a heart is extremely complex and requires a connection of knowledge from multiple domains, including electrical, mechanical, and fluids.

Over the past three decades, Dassault Systèmes has developed the most advanced modeling and simulation technology available, all of which is now accessible in a single environment that also enables real-time collaboration between medical and engineering professionals and robust data management, and security.

To learn more about the Living Heart Project and how you may be able to contribute, visit: [www.3ds.com/heart](http://www.3ds.com/heart)

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## Our 3DEXPERIENCE® Platform powers our brand applications, serving 12 industries, and provides a rich portfolio of industry solution experiences.

Dassault Systèmes, the 3DEXPERIENCE Company, provides business and people with virtual universes to imagine sustainable innovations. Its world-leading solutions transform the way products are designed, produced, and supported. Dassault Systèmes' collaborative solutions foster social innovation, expanding possibilities for the virtual world to improve the real world. The group brings value to over 170,000 customers of all sizes in all industries in more than 140 countries. For more information, visit [www.3ds.com](http://www.3ds.com).

