

Product-Service Design to Improve Self-Monitoring after Myocardial Infarction at the LUMC

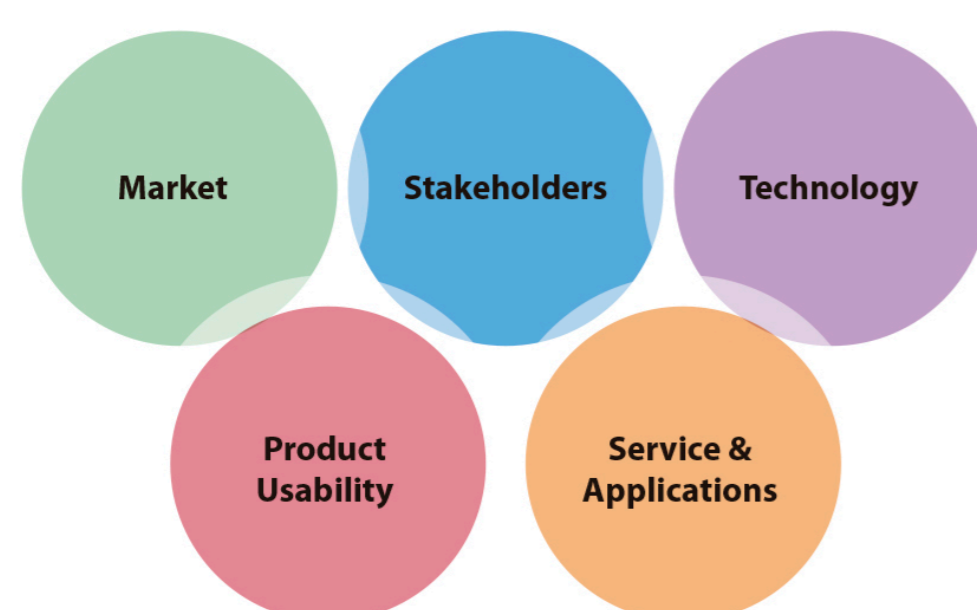


During this project the Box service of the LUMC, which enables heart attack patients to self-monitor after the infarction, has been evaluated. Many valuable insights led to recommendations for improvement and guidelines to develop a new product that fits patient lifestyle.

Product-Service Approach

During several months, the self-monitoring devices given to patients of Myocardial Infarction at the LUMC have been evaluated from multiple perspectives: stakeholders (patient, family, medical staff), technology, usability, market and the applications.

The research revealed that there is a need for mobility, easiness and better control over personal information.



Fits Patients Lifestyle

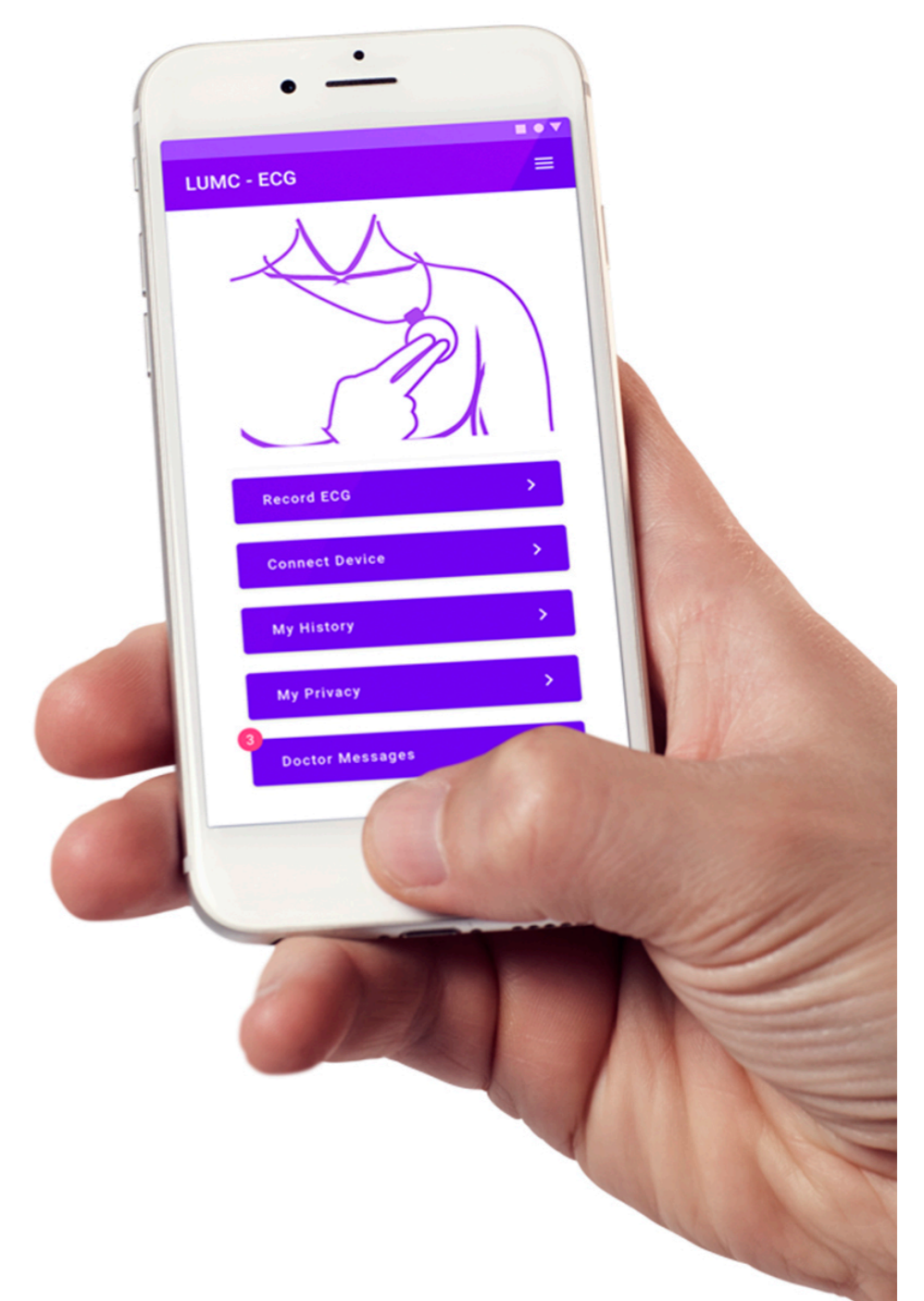
Nowadays, heart attack patients have very high survival rate and 50% are younger than 63 years. They work, travel and are active. They need truly portable devices to have peace of mind and convenience. Devices must fit naturally their lifestyle for that purpose.

The design differentiates itself from other medical devices by the use of colour and the curvy shape. Patient choose what to wear according to their preferences.



Automatic Detection of AF

A k-nearest neighbors algorithm is developed to identify possible arrhythmias. The product communicates with the application to store and identify possible problems.



Kevin Mamaqi Kapllani
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Committee Ruud van Heur
Kaspar Jansen
Roderick Scherptong
Company LUMC

**TU Delft**