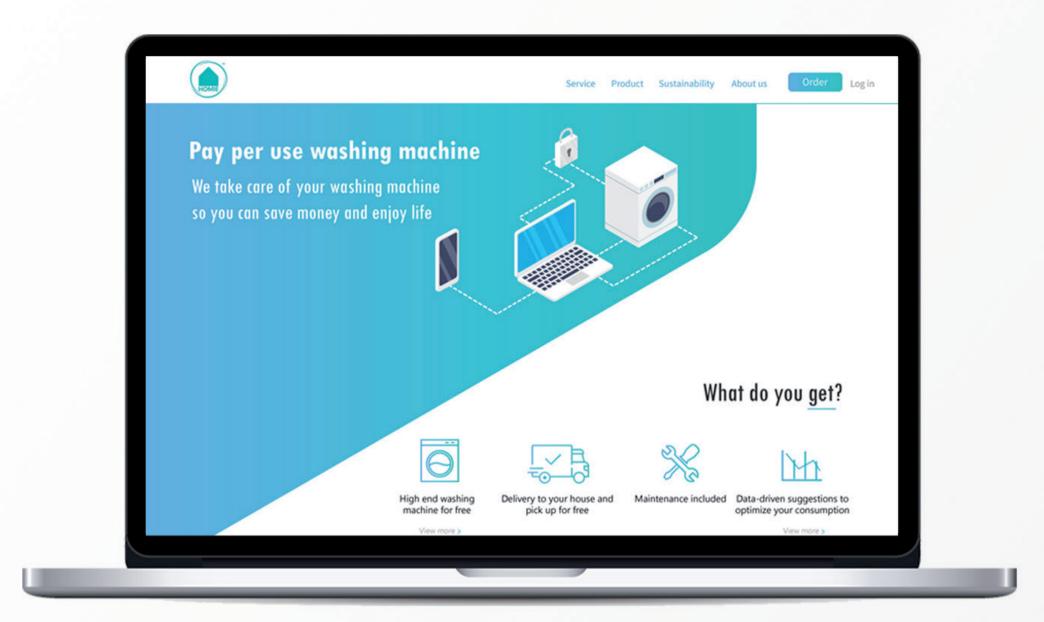
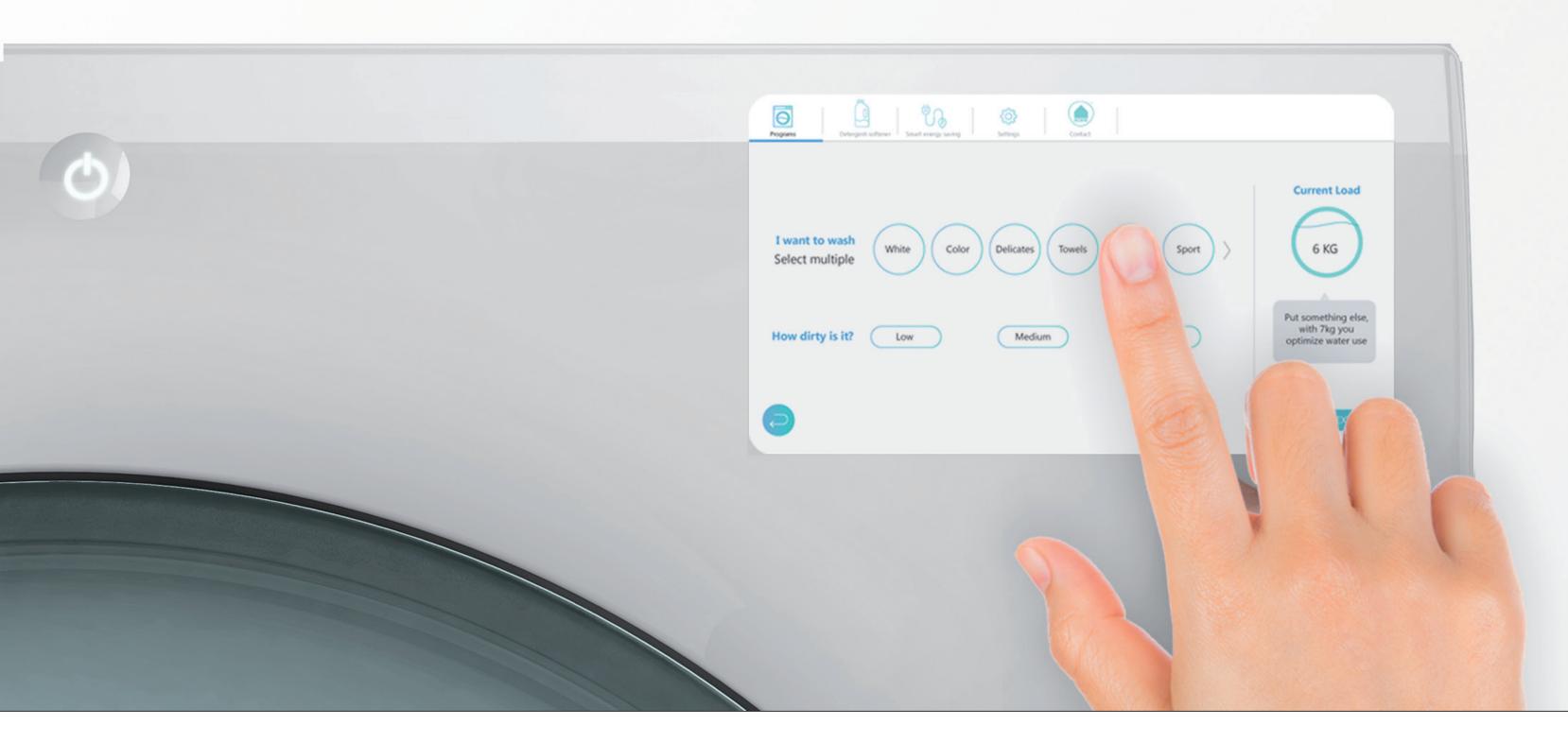
Internet of Things for Circular Economy,

design of a Pay-per-Use smart PSS eco-system





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Diana Lorena Gonzalez Sanchez Internet of Things for Circular Economy, design of a Pay-per-Use smart PSS eco-system 21-08-2017

Design for Interaction

This thesis explores how Internet of Things (IoT) can support Circular This study found out that smart products have a special relation with Economy in its goal of decoupling economic development from sustainable behavior strategies, since connectivity enables in great finite resources consumption. This is made specifically in the context extent the design of eco-interactions, which can be used to reduce of products as services, using as the case of study the Pay-per-Use the environmental impact during the use phase. Additionally, IoT washing-machine service by startup company HOMIE. The machine is is considered itself a source of value creation, which can be used connected to HOMIE's database through a tracker that sends the data in development of service features that, by means of connectivity, of users' consumption so that they are charged accordingly.

However, product-as-services rely on the service provider as the main actor for product circulation. The product use per use, as an intensive These findings were translated in a design for the case of study. The resource consumption part of the lifecycle, and its relationship with final design is a Smart PSSs eco-system integrated by 3 devices: the users' decisions is not therein contemplated. So, design strategies webpage, the washing machine interface and an app. All together for sustainable behavior are included in the development of this aim to improve the experience of use of HOMIE's Pay-per-Use service product service system (PSS) as a complementary concept to Circular while fostering more sustainable practices and motivating adoption.

solve issues that were not tackled before. Thus, more attractive value propositions can be created.

Therefore, they are built with a strong sustainable behavior design

