

load

Load 10th
Birthday
2022

20
12

20
22

LOADING...



METAVERS

Blockchain
Here we go!

NFT

DC

MGMT

CODE

DESIGN

Scaleup

CODE

</>

Z
Z

MGMT

CODE



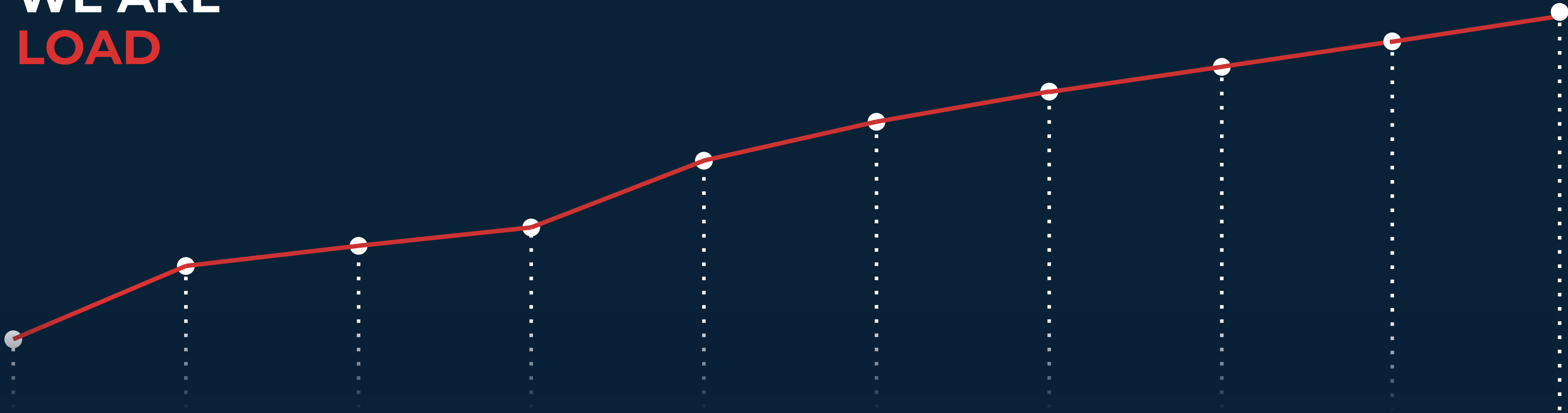
WE ARE SPECIALIZED IN

Study and Development of
New **Digital Products**.

WE PROMOTE TECHNOLOGICAL DEMOCRACY

All projects have **specific needs**. we use the **right technology** to tackle them, not the other way around.

WE ARE LOAD



2012

Load is founded with the focus on custom web and mobile solutions.

2013

Affiliation to Masters in Innovation Group.

2014

Creation of the Digital Product Research department.

2015

Creation of R&D Department with annual milestones.

2016

ISO 13485 Certification.
Focus on eHealth solutions. 1st digital medical device launched.

2017

Creation of the Digital Consulting department, offering Dynamic, Remote & On-Site Consulting services.

2018

R&D focus on new technological trends: Blockchain, Artificial Intelligence & Virtual Reality.

2019

Consolidation as Digital Innovation Specialists.

2020

Becoming a software medical devices specialized manufacturer with ISO 13485:2016 Certification with global accreditation.

2021

Innovation department creation with focus on international partnerships.

CONFIDENTIAL

SOME OF OUR CUSTOMERS

PORTUGAL



IKEA



BENELUX



SIEMENS



proximus



SONY MUSIC



A Promise for Life



ABInBev



niko



OTHER GEOGRAPHICAL AREAS



Valeo



OUR GROUP



MOEBIUS DESIGN 

ON – SITE
PRODUCT
DEVELOPMENT



PEGUSAPPS 

DIGITAL
PRODUCTS
DEVELOPMENT

LAMBDA-X

OPTICAL
PRODUCTS
DEVELOPMENT



VENTURING

GROUP INNOVATION CENTERS



KRUIBEKE Belgium

Hogenakkerhoekstraat 21
B-9150 Kruiabeke
T +32 3 250 19 00

www.verhaert.com

CONNECT

FMCG

INDUSTRY

MEDICAL

TECHXFER



GENTBRUGGE Belgium

Bruiloftstraat 55-57
B-9050 Gentbrugge
T +32 9 330 27 90

www.moebiusdesign.com

ON-SITE CONSULTING



NIVELLES Belgium

Avenue Robert Schuman 102
B-1400 Nivelles
T +32 67 47 57 10

www.lambda-x.com

AEROSPACE

MEDICAL

TECHXFER



NOORDWIJK Netherlands

Kapteynstraat 1
2201 BB Noordwijk
T +31 71 760 05 50

www.connect.verhaert.com

CONNECT

FMCG

TECHXFER



AVEIRO Portugal

Av. Dr. Lourenço Peixinho
96-D 4º andar
3800-159 Aveiro
T +351 234 604 088

www.load.digital

CONNECT

ON-SITE CONSULTING

OUR GROUP COMPETENCES

DESIGNLAB

User insights
User experience design
Industrial design & styling
Ergonomics

[watch video](#)

DIGITALLAB

UX / UI Strategic Design
Web and mobile applications
Big Data, EO & Data Engineering
3D, Virtual & Augmented Reality
Artificial Intelligence
Blockchain

[watch video](#)

EMBEDDEDLAB

Embedded architecture
MEMS sensors
Electronics design
Embedded software
Wireless design

[watch video](#)

FABLAB

Industrialization
Rapid prototyping
Supply chain management
Test equipment
Pilot series

INNOLAB

Market research
Product management
Business consulting
Innovation policies

[watch video](#)

MECHLAB

System design
3D design & simulation
Product engineering
Structures
Kinematics

[watch video](#)

OPTICSLAB

Light scattering
Interferometry
Tomography
Hyperspectral
Reflectometry

[watch video](#)

PHYSICSLAB

Feasibility research
Integrated sensors
Applied physics & maths
Algorithms
Simulation

[watch video](#)

OUR APPROACH

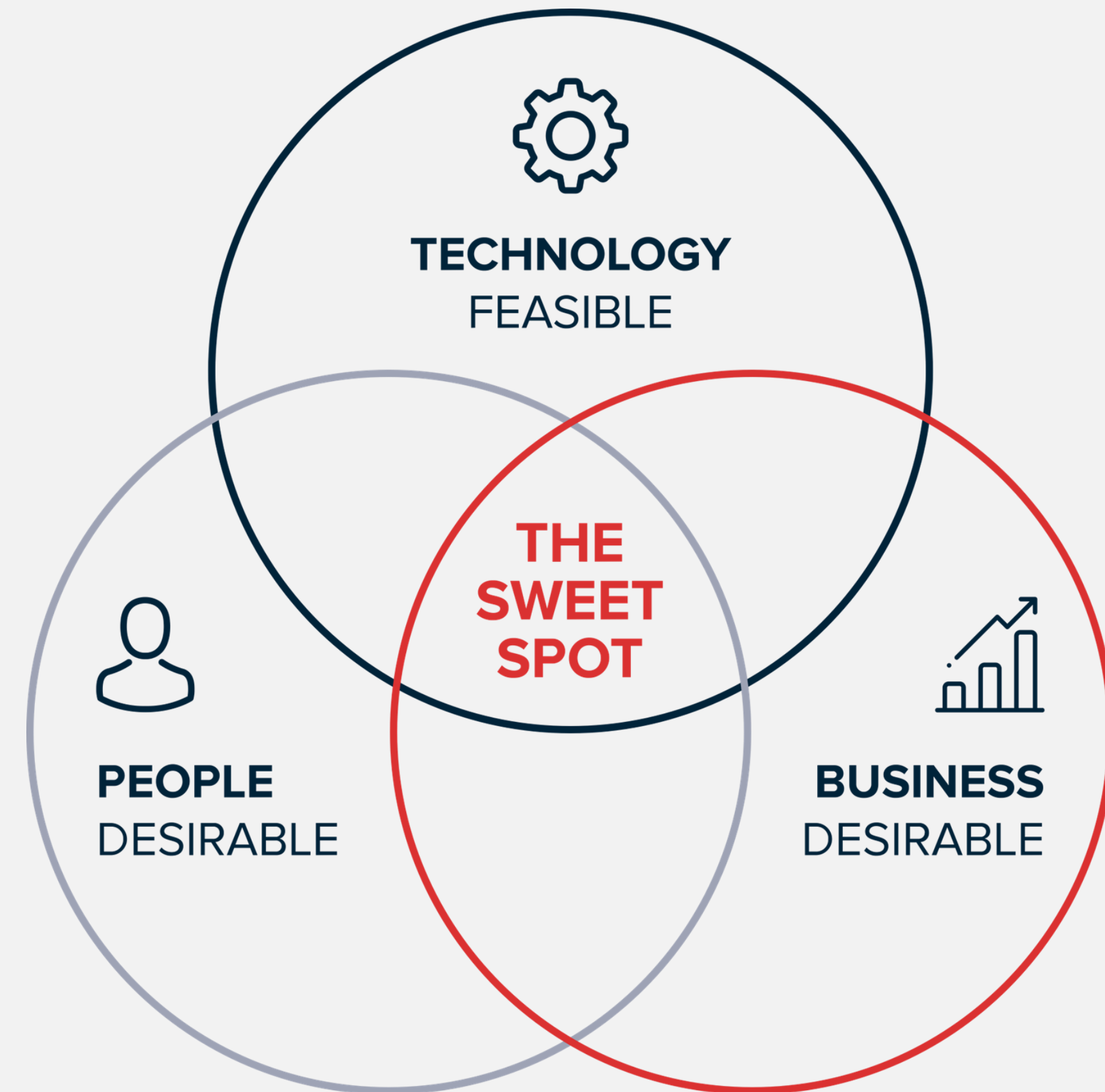
We aim for help you create a product that is:

- **Desirable**, focused on **people**;
- **Unique**, solving a specific problem like no other:
- **Financially viable** while **technologically advanced**;

We do so following our motto: **“Think Big, Act Small”**

Our processes enable us to find your Minimal Viable Product (**MVP**) setup, aim for a **Quick ROI** (Return on Investment) and evolve from there.

Learn how we do it in the next slides.



DPR

Digital Product Research

DPD

Digital Product
Development

DPI

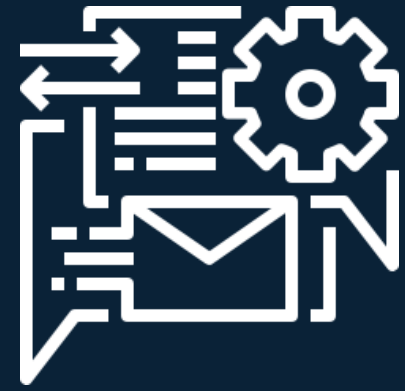
Digital Product Introduction

**ON-SITE
CONSULTING**

**DYNAMIC
NEARSHORING**

DIGITAL PRODUCTS STRATEGY

DIGITAL CONSULTANCY SERVICES



Big Data



Internet of Things



Artificial Intelligence



Blockchain



Web Apps &
Solutions



Mobile Apps



3D & AR / VR



Med Tech

PORTFOLIO

**e-Health,
Medical Devices &
Solutions for Medical Sector**



QUALITY POLICY

CERTIFIED COMPANY

Load is an **ISO 13485** standard certified company. Our quality management system, implemented under scope of this standard, enables us to build **medical devices**.

QUALITY MANAGEMENT SYSTEM MANUAL

The **Quality Manual** states the principles under which Load must be governed so that the defined objectives for Quality are achieved, namely the guarantee of our customers' satisfaction.

Check all the documentation about the Quality Management System on Load Cloud - All or contact [Pedro Colarejo](#) for more info.



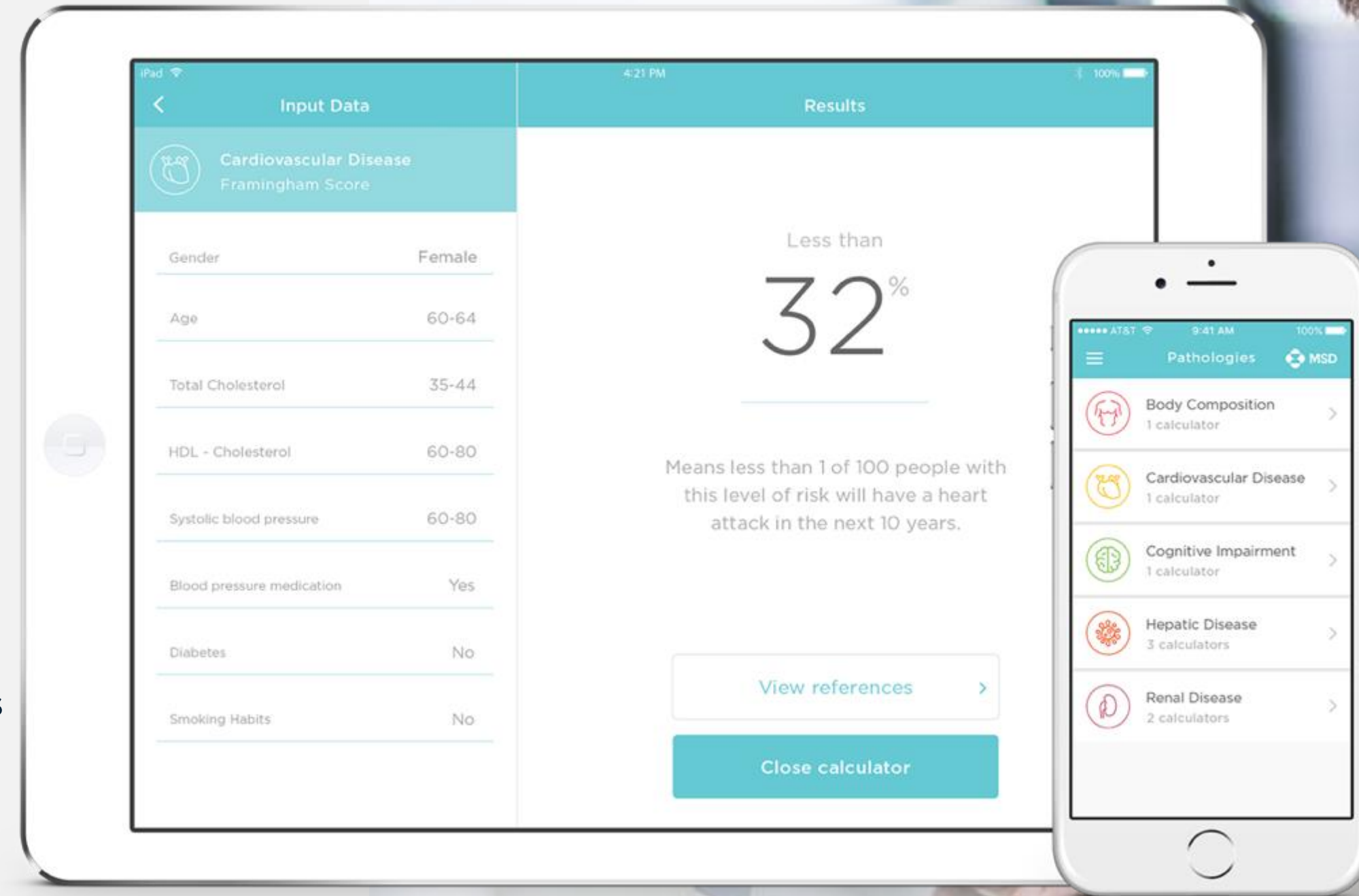
MSD TOTAL PATIENT CARE (CE) MEDICAL DEVICE

A Digital Medical Device to help HIV doctors in comorbidities diagnosis

In 2016 health innovation was a trend and by 2017 it quickly became a reality. MSD felt the need to stay on the cutting edge of digital innovation and its goal was to provide healthcare professionals with medical devices capable of helping to diagnose HIV-related illness in a predictive manner.

For this purpose a medical device was created in the form of software, obtaining its CE marking. It encompasses a set of calculators provided by MSD to manage co-morbidities of HIV, and combines a web portal and two mobile apps (smartphone e tablet) with a set of universal calculators that allow HCPs during the visit of the patient to calculate the risk of disease, as well as a Backoffice that will be used to manage Systems Administrators, Country Managers and Health Professional Users.

The tool went into production in Portugal, being distributed by medical personnel with whom MSD has contact, and with very positive reactions. The scope and quality of the developed system has so captured the attention of Merck Global that the dissemination of the tool by multiple countries around the world is underway.



Big Data



Internet of Things



Artificial Intelligence



Blockchain



Web Apps & Solutions



Mobile Apps



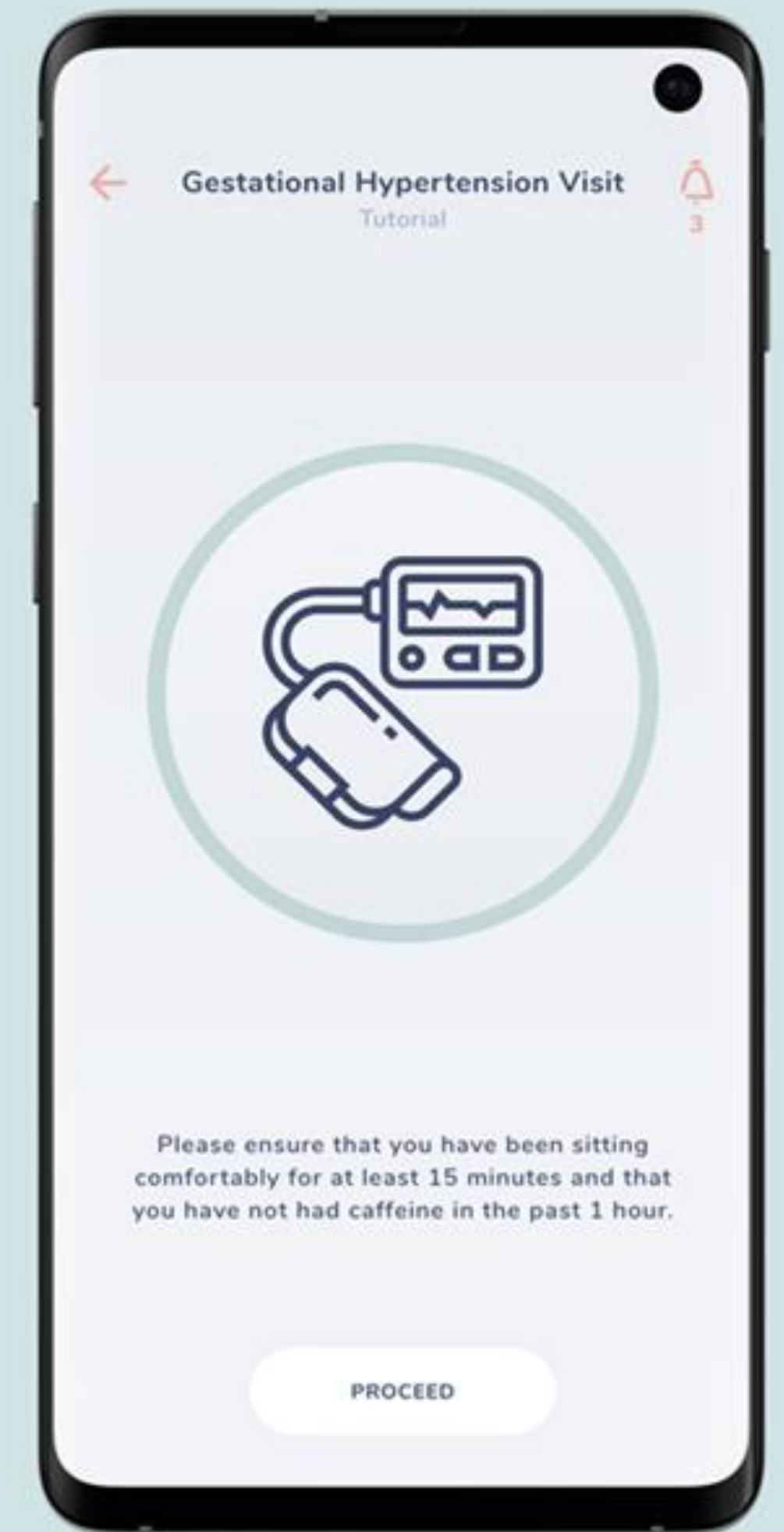
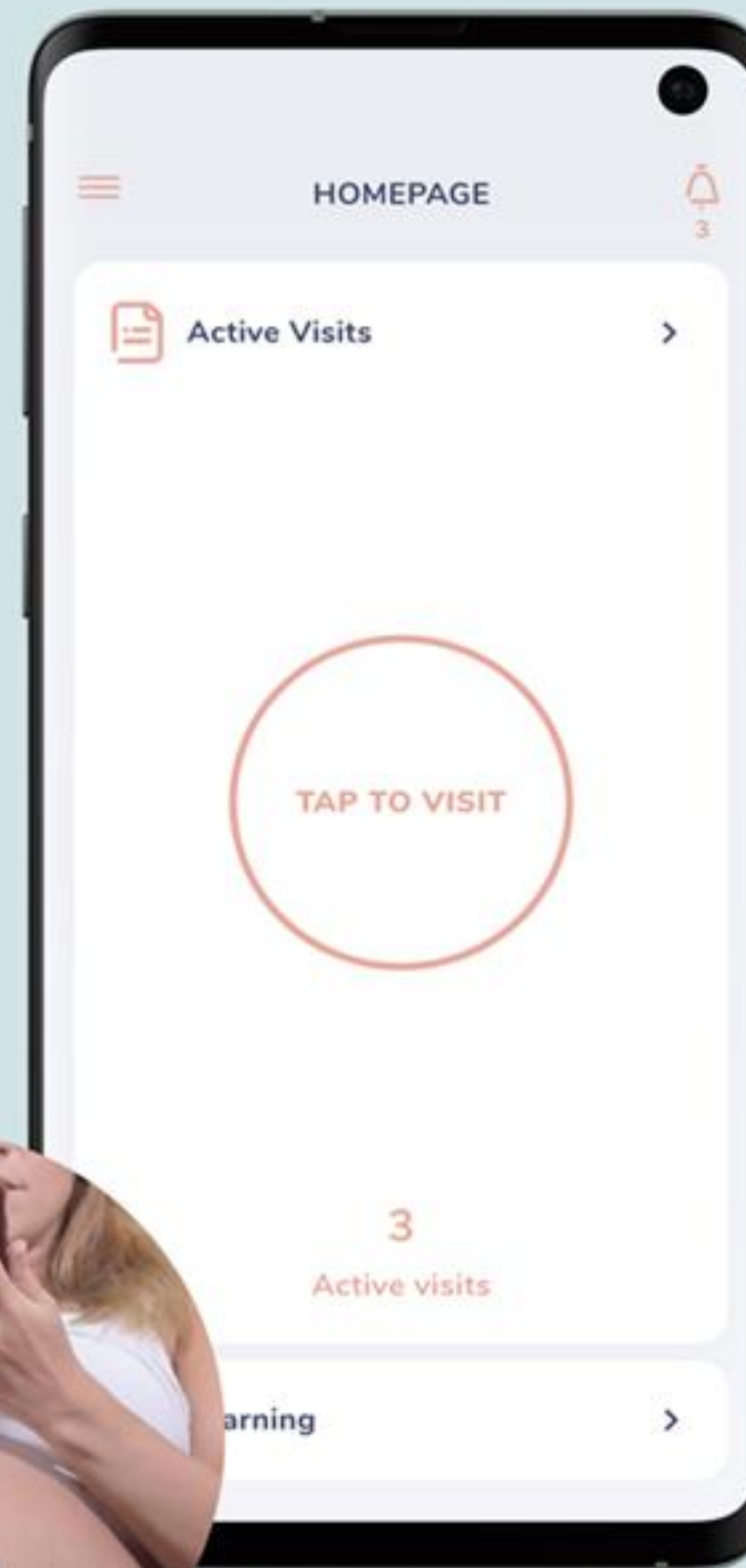
3D & Mixed Reality AR/VR

Rethinking maternal care through mhealth and telemedicine solution

Self-assessment and monitoring is vital for an early intervention in any case of illness. That's why this device was created, with the use of wearable medical-grade maternal and fetal health monitor (ECG), as well as a mobile application you can improve the quality of pregnancy period.

This interaction with a novel wearable fetal monitor serves to monitoring fetal heart rate (FHR), maternal heart rate (MHR), and uterine activities such as contractions (UA).

Newer standards of maternity care will see a drive towards remote monitoring. We will see this device reshaping the future of pregnancy.



Data Representation



Internet of Things



Artificial Intelligence



Blockchain



Web Apps & Solutions



Mobile Apps



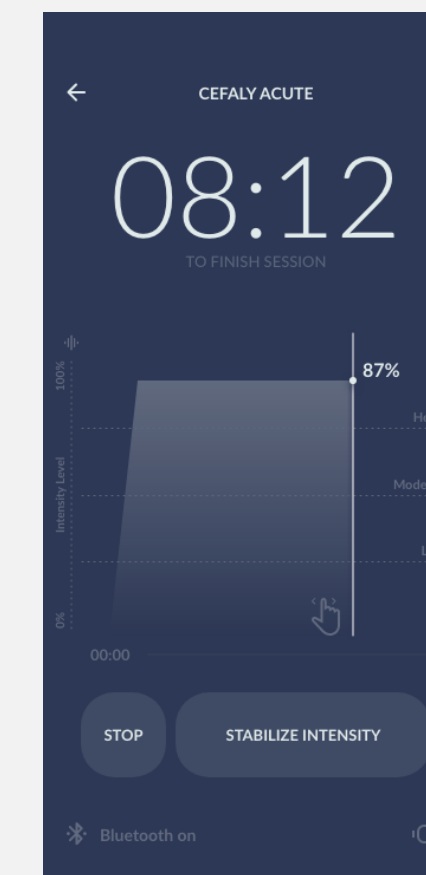
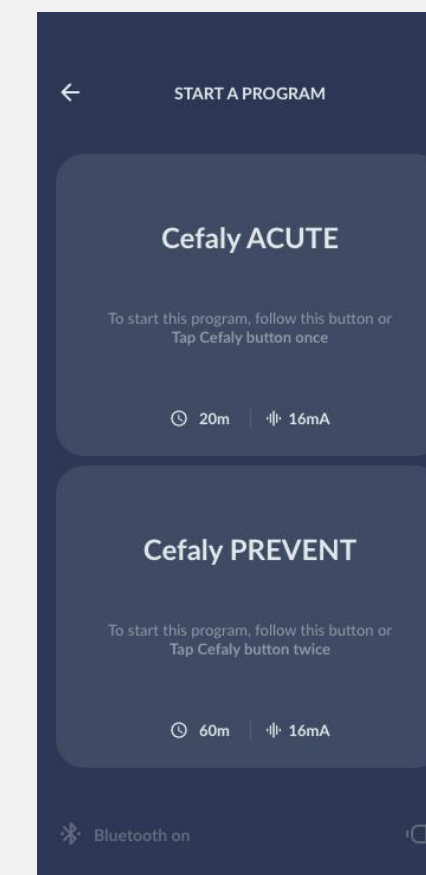
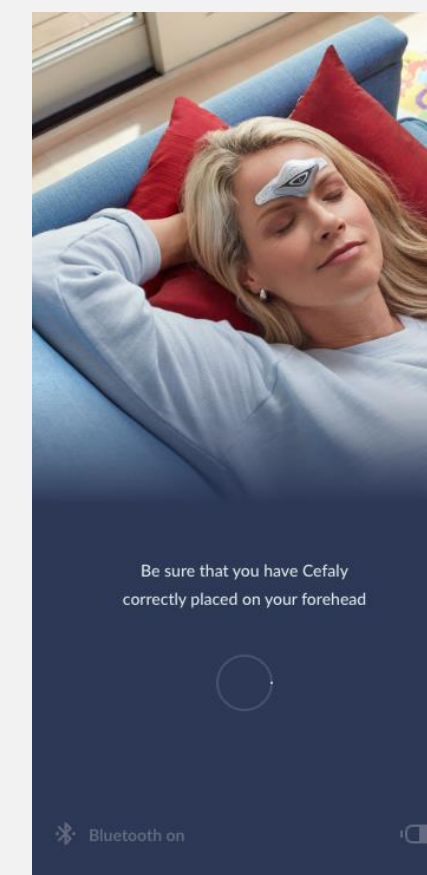
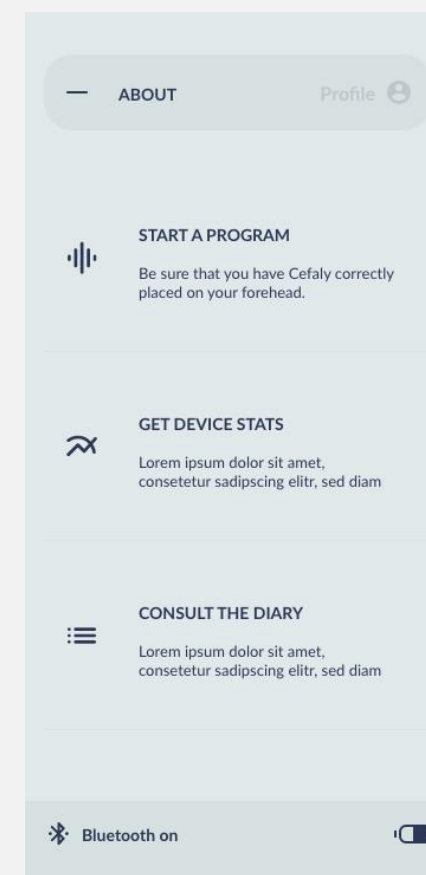
3D & Mixed Reality AR/VR

Releasing the pain of migraine on the palm of your hands

An european medical company that manufactures a device that is placed in the patient forehead and performs a neurostimulation of the trigeminal nerve. This is a nerve that is involved in most headaches and migraines, and its superior branch ends at the exit of the eye socket, underneath the skin of the forehead.

Load is building a mobile App to be used to interact with this device, managing two different programs of migraine control, and also collect usage statistics from the device;

This App is also intended to interact with a backoffice to manage access to the App and manage the data collected from the device



Data Representation



Internet of Things



Artificial Intelligence



Blockchain



Web Apps & Solutions



Mobile Apps



3D & Mixed Reality AR/VR

KNEE REPLACEMENT SENSOR

Adding a 6th sense during knee replacement procedures in the surgery room

Worldwide, around 1.5 million people every year receive artificial knee replacements. The surgical outcome of all these knee replacements might look good on an x-ray, but an average of 20% of patients complains of poor function and pain post-operatively. The major challenge to improve these results lies in determining the optimal implant position. Load partnered with Verhaert in the development of this Surgical Sensor, a tool to help surgeons intra-operatively understand the complex interplay between patient-specific ligament structures and behavior and the optimal implant position, using micrometer precision. It is a single-use electronic unit which is composed of a sensor and a transmitter, to show real-time data on a remote display.



Big Data



Connected Product



Artificial Intelligence



Blockchain



Web Apps & Solutions



Mobile Apps



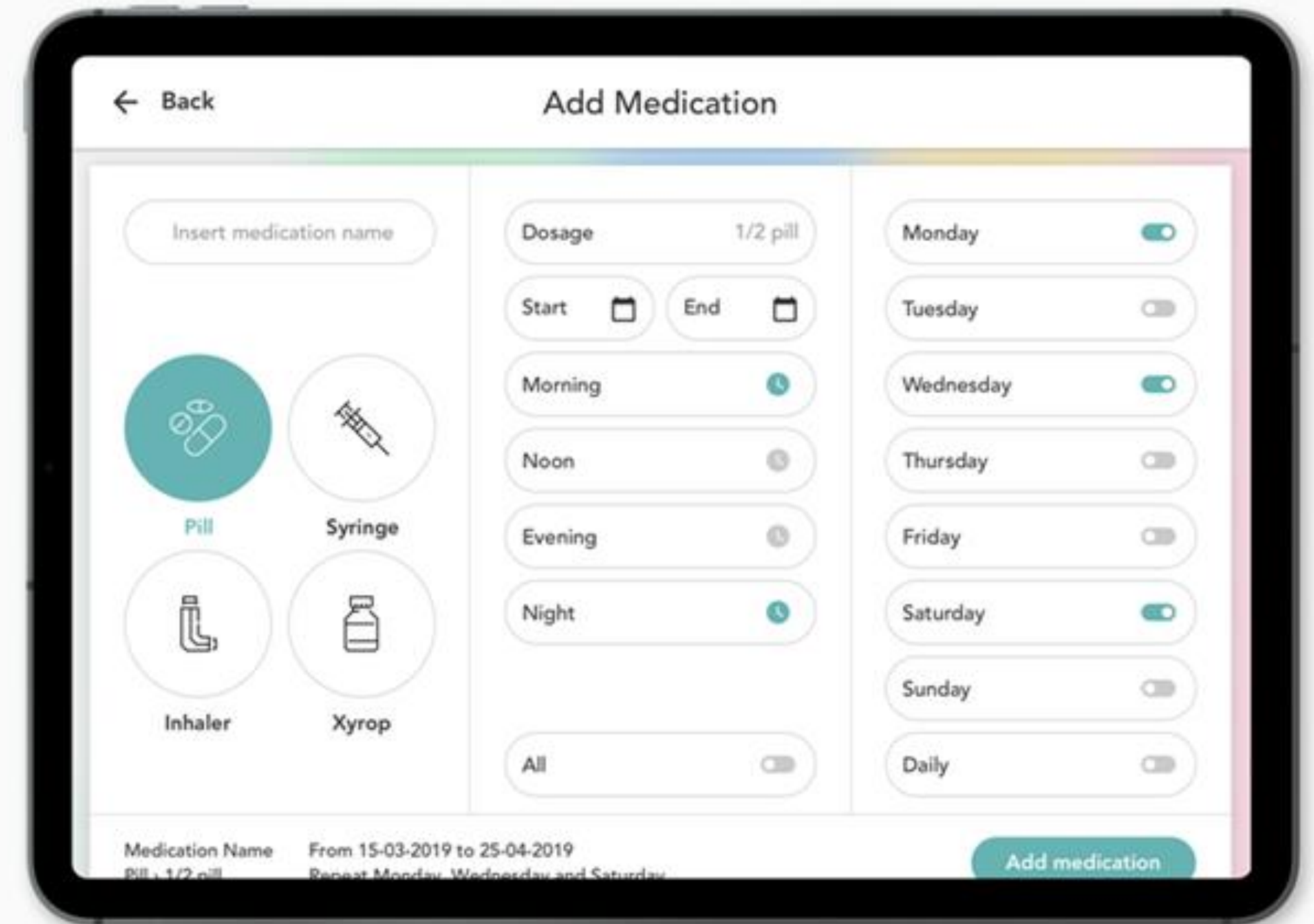
3D & Mixed Reality AR/VR

VIZIER

Keeping it simple, for the elderly

We are currently developing the proof of concept of a platform that connects existing popular modern online services and innovative and affordable Internet of Things appliances to a user friendly interface. Load is responsible for the development of the Social interaction App according to gathered design rules and functionalities truly optimized for elder necessities, such as: Contact Management, Calendar with reminders and alert system, Medication scheduling integrated with calendar alert system, Events manager, Present a series of indicators coming from the Fitbit wrist sensors, Alert and configuration of the Home Intelligence System.

The main goal is to encourage the elderly to improve the management of their daily lives, to stay physically, mentally and socially active.



Data Representation



Internet of Things



Artificial Intelligence



Blockchain



Web Apps & Solutions



Mobile Apps



3D & Mixed Reality AR/VR

Connecting Medical Specialists via a dedicated Social Network

Dutch Medical Specialists Federation (Federatie Medisch Specialisten) internal social network that allows, using its own back office, to publish feeds of various types (articles, image videos or even small surveys), documents or even scheduled events.



Big Data



IoT & Connected



Artificial Intelligence



Blockchain



Web Apps & Solutions



Mobile Apps

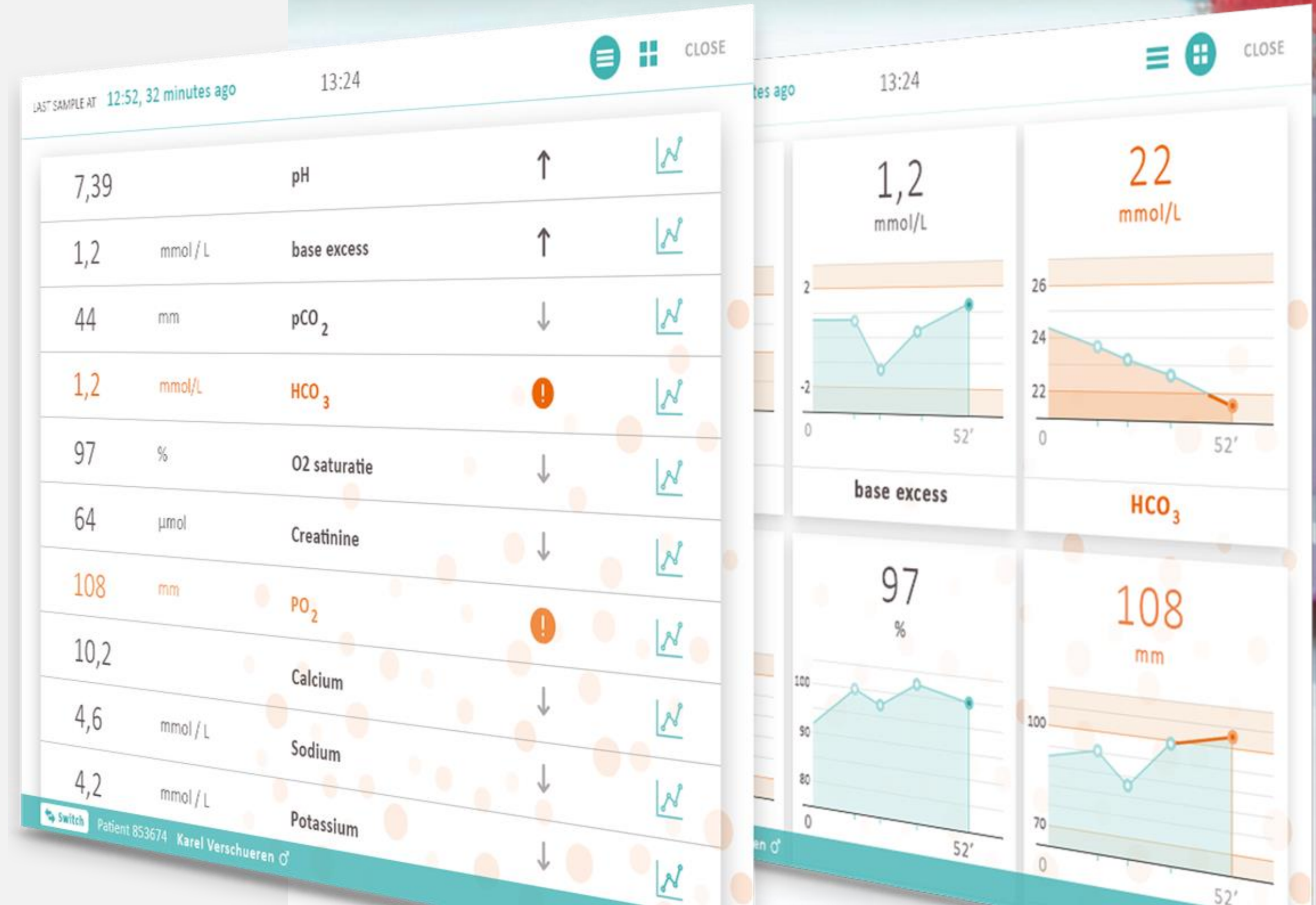


3D & Mixed Reality AR/VR

How to provide surgeons valid info on-the-fly?

One of the major manufacturers of medical equipment was developing its current system for measuring the blood gases of patients undergoing surgery. In the collection process, blood samples are collected and placed in an analyzer, which in turn inserts the results into a distributed database. Although this process does not need to undergo structural changes, the way the results are presented to the surgical team - printed cards with the results - needs to be improved.

LOAD has developed an application available as a second-screen for the operating room, where parameters are available immediately after analysis. As an alternative to alphanumeric values, the values are presented in the form of list and / or chart, as well as their evolution over time. The arrangement of the parameters is easily customizable by the system operator, so that the most critical values are the most obvious.



Data Representation



Internet of Things



Artificial Intelligence



Blockchain



Web Apps & Solutions



Mobile Apps



3D & Mixed Reality AR/VR

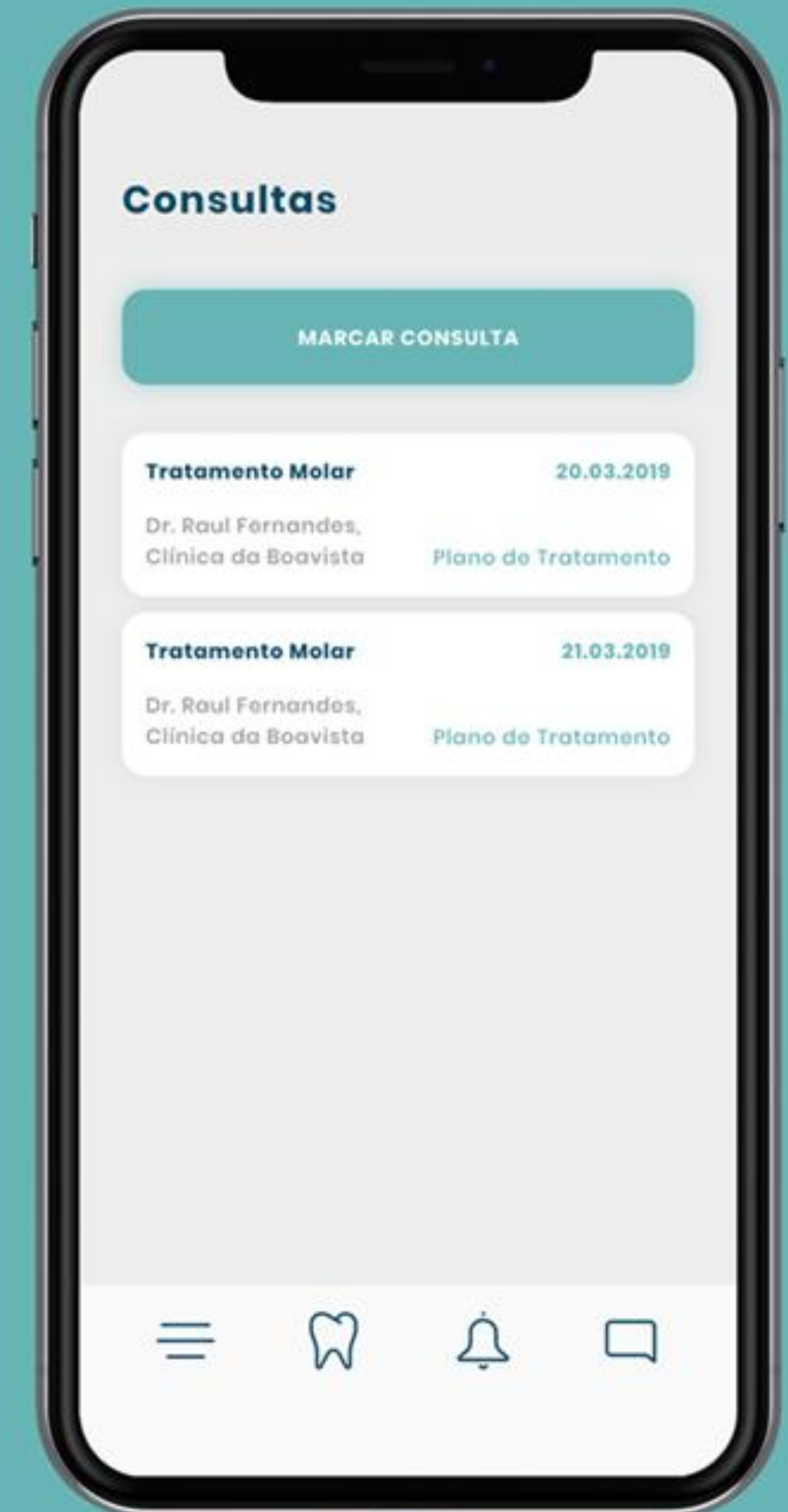
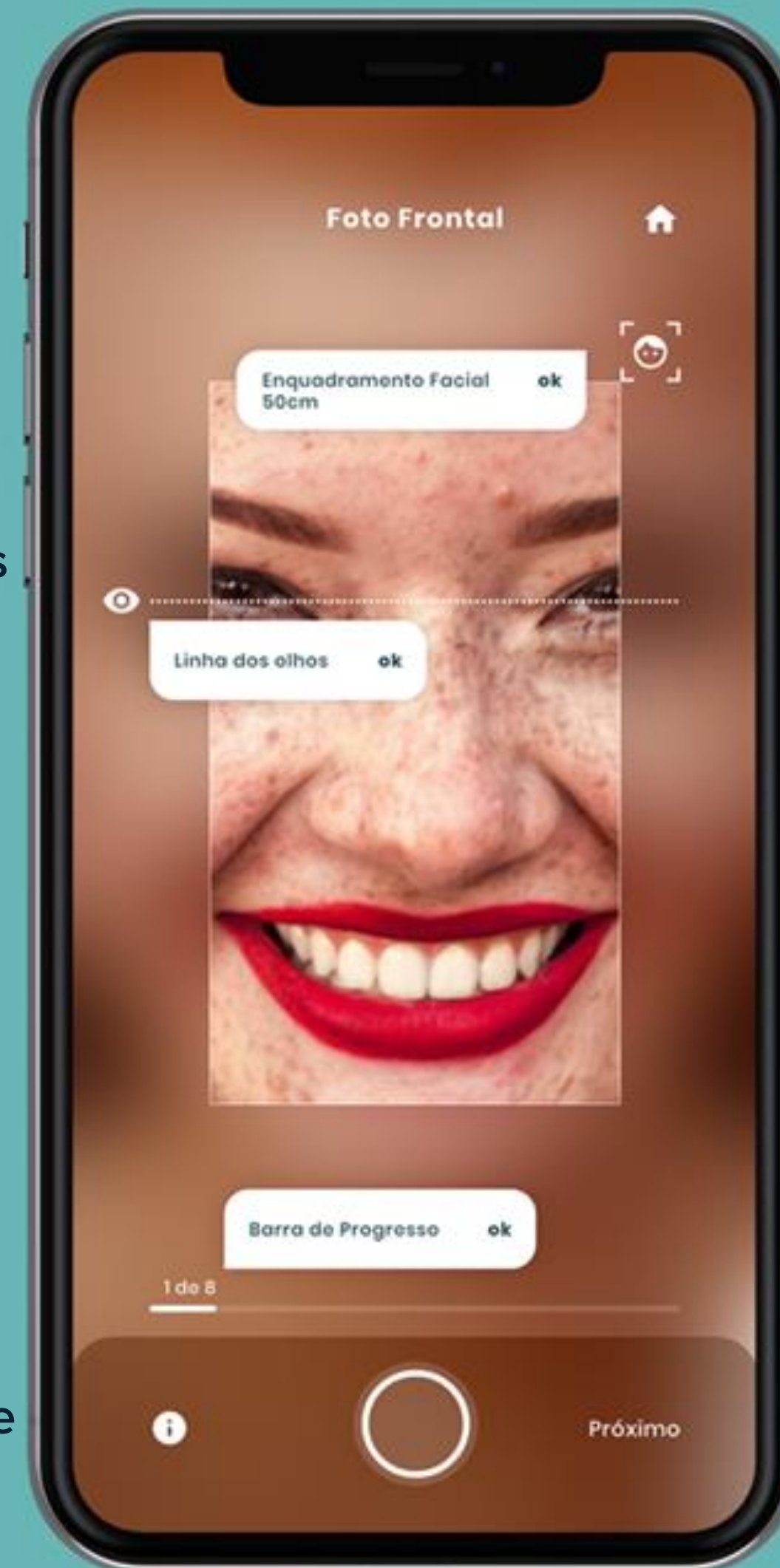
Dental Pre-Diagnostic process easier and more interesting

In order to attract more clients, an European Dental Clinic challenged Load to develop a versatile digital product for their goal. That's how this app was born.

This is an app that makes the pre-diagnostic process easier and more interesting, whenever and wherever you are.

Imagine having some type of oral issue - such as dental pain, persistent gum inflammation, bleeding or even another issue - and you don't have time (or courage) to go to your dentist and check what is happening.

That's where it shines: through this digital product, developed by Load, composed by a cloud solution with an app as user interface you will receive instructions to take some photos of your face and mouth in different perspectives, so they will be sent to the dentist.



Data Representation



Internet of Things



Artificial Intelligence



Blockchain



Web Apps & Solutions



Mobile Apps



3D & Mixed Reality AR/VR

EU ALERTO!

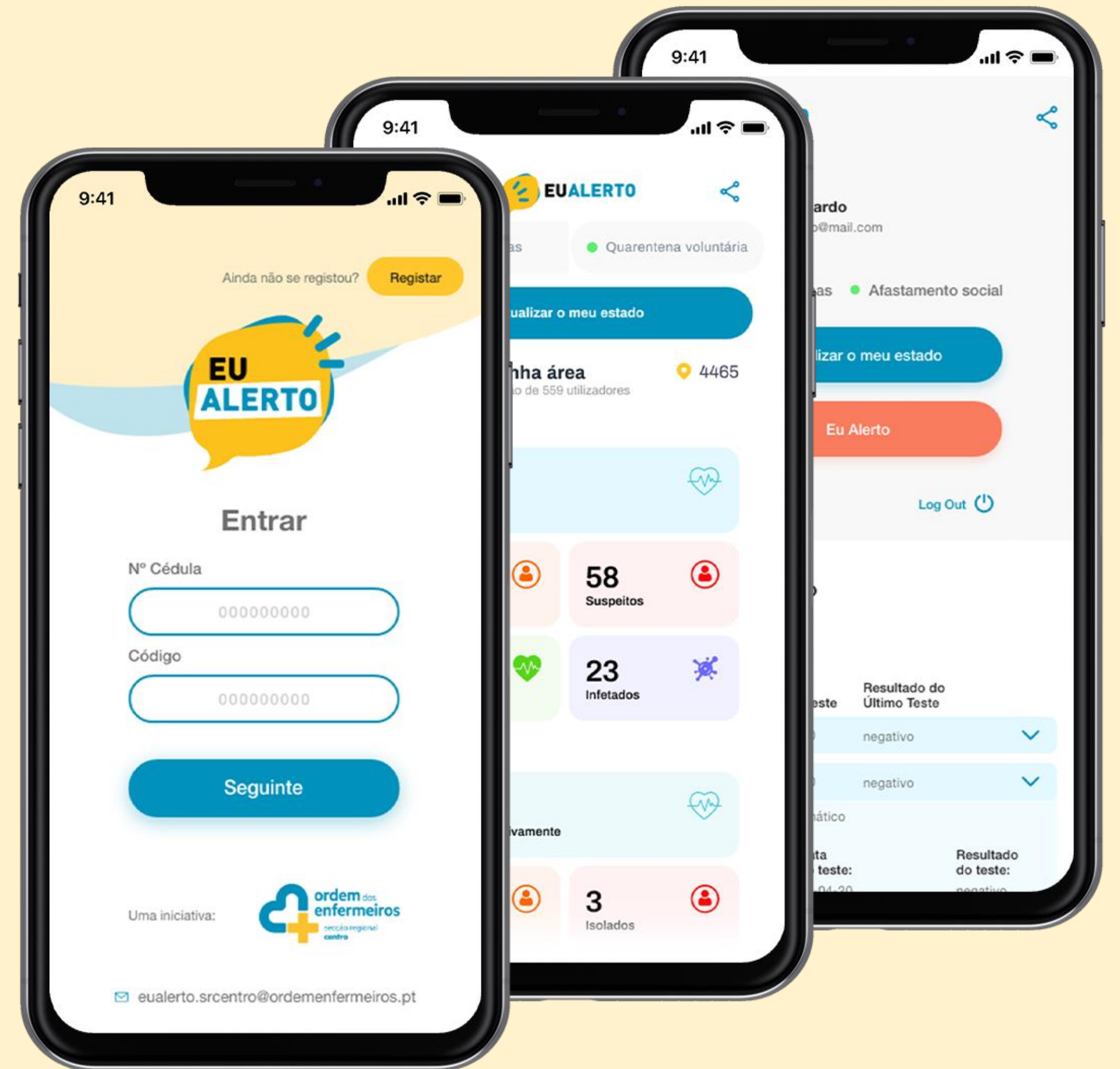
Platform that helps nurses deal with covid-19 risks and exposure.

The EuAlerto Platform integrates a system of everyday registration, briefing the health status and exposure of nurses to Coronavirus SARS-CoV-2.

During this pandemic context it has become essential to bring the Order of Nurses even closer to its members. In order to help develop the best digital solution, Load developed an app that allows Nurses to record their health status, possible symptoms and other relevant data that may influence their performance and undermine their professional practice.

This information will serve to assess the evolution of Covid-19 among nurses and target the action in several areas.

This is the first version of EuAlerto, soon will be available new features helping this community fighting the virus.



Data Representation



Internet of Things



Artificial Intelligence



Blockchain



Web Apps & Solutions



Mobile Apps



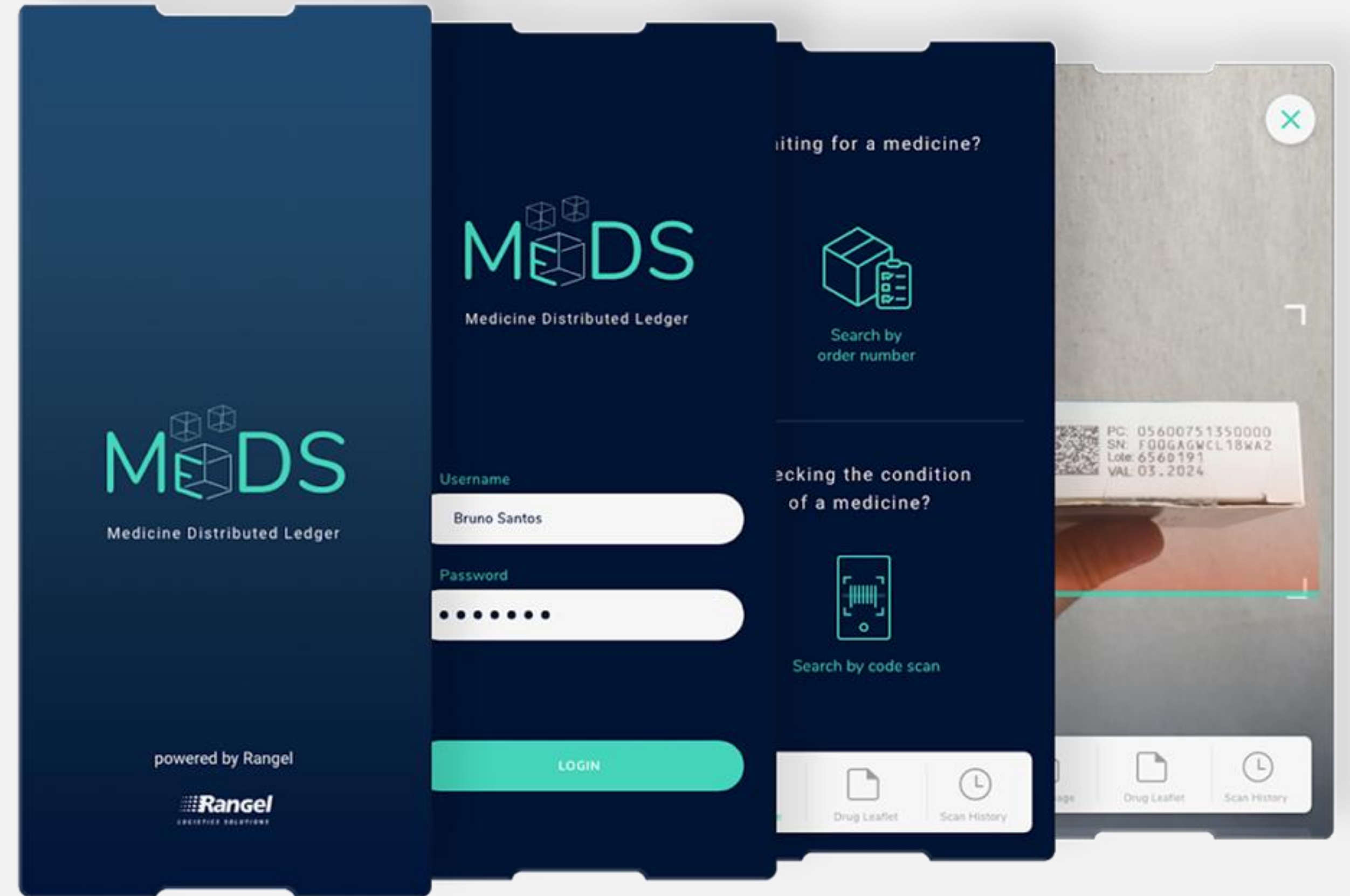
3D & Mixed Reality AR/VR

Medicine Distributed Solution for the medical sector.

This project was an exploration of distributed ledger technologies approach, using smart contracts and decentralized apps (Dapps) addressed by the logistics sector (Rangel), specifically on pharmaceuticals regarding drug traceability and meds conservation conditions.

It aims to develop an open information platform to be used to help record access in the distribution chain, from the manufacturer to the final consumer. The goal of MeDS is to solve several issues regarding the quality parameters of the medicines, covering the falsified medicines across the supply chain, for instance.

Rangel decided to tackle it because there is a problem regarding fake drugs on the supply chain, as well as the not so accurate information provided by the logistics partners.



Big Data



Internet of Things



Artificial Intelligence



Blockchain



Web Apps & Solutions



Mobile Apps



3D & Mixed Reality AR/VR

Research & Development



VREO

Show the capabilities of Earth Observation Data by navigating through it immersively



The project aimed to explore the full catalogue of publicly available data on earth observation, made available by the European Space Agency, using Virtual Reality.

This was possible through the use of data obtained by the Copernicus program of ESA (European space agency) and distributed in a playful way using Virtual Reality, where the user can walk over the world, coated with the representation of several data types, grouped in Land, Maritime and Climate data, from ESA.



since 2018

Logi_Ledger

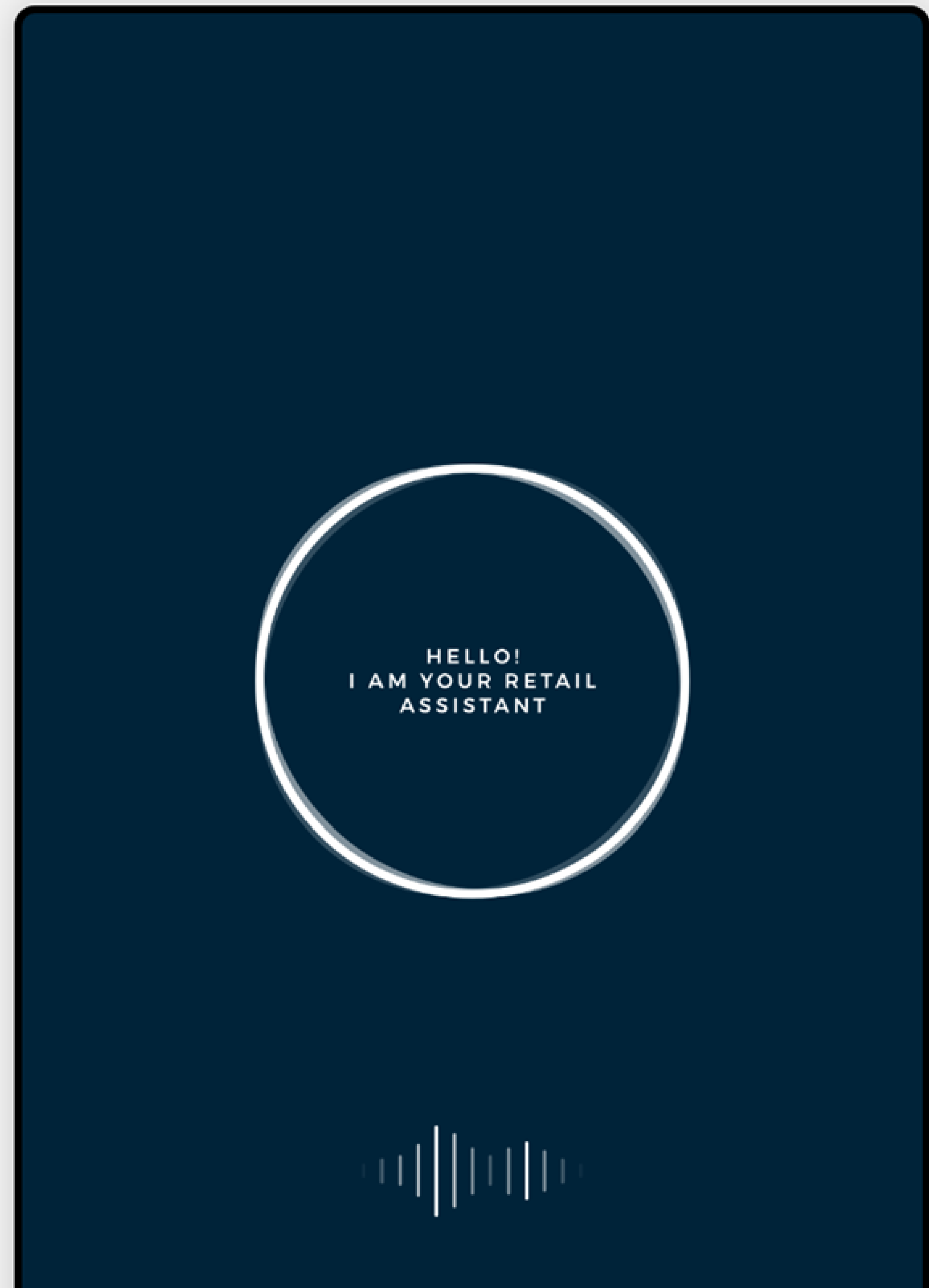


How to use conversational bots to boost engagement and enhance shopping experiences?

On an era where voice activated interfaces/devices are taking us by storm, our approach goes beyond the classical way.

How to improve our daily shopping activities? What about knowing more of a product's provenience before actually buy it? How to bring the chain value to the final consumer, using a voice assistant to let you know more about a product on a intuitive and organical behavior?

Cofinanciado por:



Data Representation



Internet of Things



Artificial Intelligence



Blockchain



Web Apps & Solutions



Mobile Apps



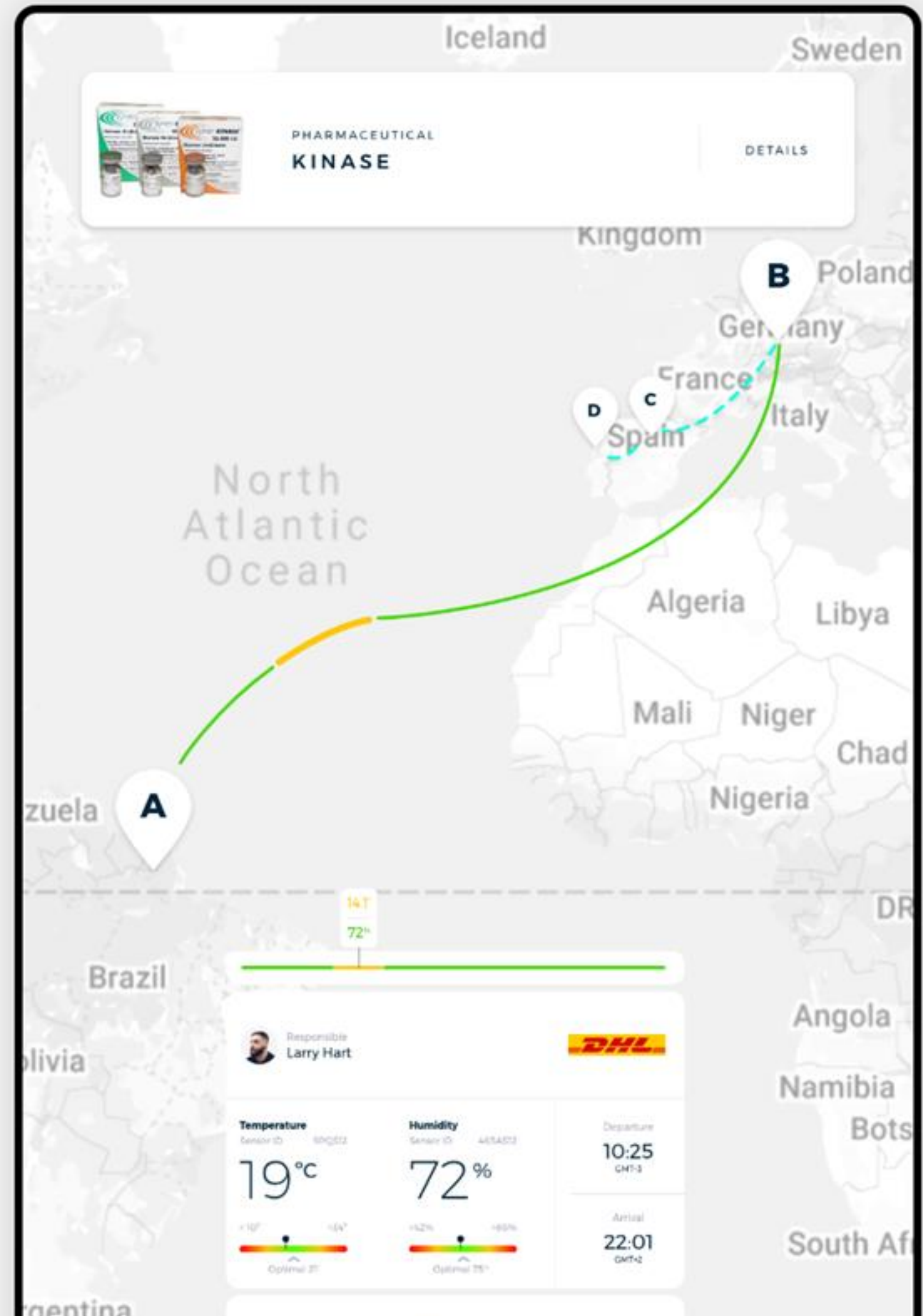
3D & Mixed Reality AR/VR

How to radically change retail, through the use of Blockchain and IoT, boosting supply chain automation and transparency?

LOAD is building a prototype that aims at ensuring transparency along the supply chain, especially focused on the collection, accommodation, transportation and storage of goods, resulting in valuation of goods and services according to the quality of service from the different stakeholders.

How to radically change retail, through the use of Blockchain and IoT, boosting supply chain automation and transparency?

Cofinanciado por:



Data Representation



Internet of Things



Artificial Intelligence



Blockchain



Web Apps & Solutions





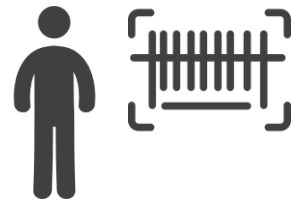
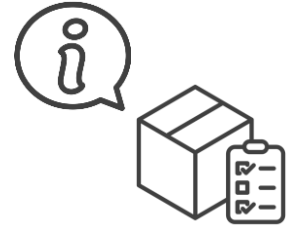


Mobile Apps



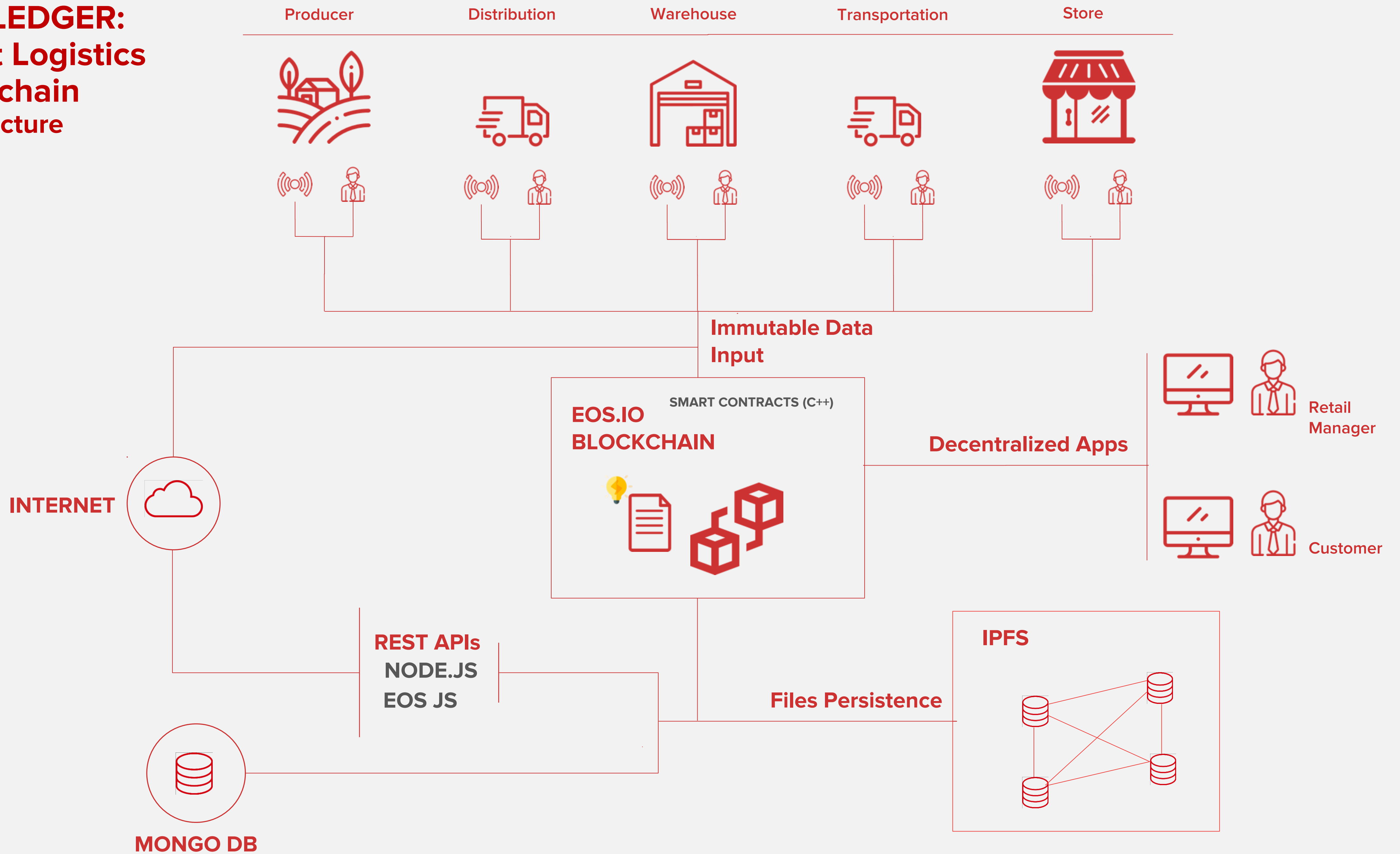
3D & Mixed Reality AR/VR

Logi_Ledger

User Journey Map

	Show up next to the shelf	Pick up a product	Identify the product	Product Info	Another question
User / Customer					
Image Recognition	Bot recognizes that someone approaches and recognizes gender and sentiment				
Blockchain				Data previously inserted in blockchain via IoT is being retrieved from there according to the questions 	
Conversational Bot	"Hello Mr/ Mrs."	"Do you want to know more about the product you just picked up?" "Please use the barcode scan to know more about it!"	Great. You pick <product xxxxx>. What do you want to know about this product?	"This product was <xxxx> (Origin, Logistics, benefits, etc)" "Please feel free to ask more information about any point of the map"	"Do you have any more questions?"

LOGILEDGER: Smart Logistics Blockchain Architecture



Innovation Partnerships



Innovative partnerships

NGI TRUBLO

FACT CONNECT

A BLOCKCHAIN-ENABLED BADGE FOR TRUSTWORTHY CONTENT

load MASTERS IN INNOVATION

IPN INSTITUTO PEDRO NUNES

Photo by Kien Pham

This banner features a blue background with a blurred image of people. The text is white and blue. The NGI TRUBLO logo is in the top left. The main title 'FACT CONNECT' is in large white letters. Below it, the subtitle 'A BLOCKCHAIN-ENABLED BADGE FOR TRUSTWORTHY CONTENT' is in smaller white letters. At the bottom, there are two logos: 'load MASTERS IN INNOVATION' and 'IPN INSTITUTO PEDRO NUNES'. A small credit line 'Photo by Kien Pham' is in the bottom right.

ARCADIAN-IoT

Autonomous Trust, Security and Privacy Management Framework for IoT

WHAT IS ARCADIAN-IOT?

VISION & STRATEGY

This banner has a dark purple background with a glowing shield icon and a laptop. The text is white. The ARCADIAN-IoT logo is in the top left. The main title 'Autonomous Trust, Security and Privacy Management Framework for IoT' is in large white letters. Below it, there are two circular icons: one with a shield and a brain, and another with a target and a leaf. Below these icons are the labels 'WHAT IS ARCADIAN-IOT?' and 'VISION & STRATEGY'.

3D, Virtual & Augmented Reality



VIRTUAL REALITY EARTH OBSERVATION (VREO)

Show the capabilities of Earth Observation Data by navigating through it immersively



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Big Data



IoT & Connected



Artificial Intelligence



Blockchain



Web Apps & Solutions



Mobile Apps



Virtual Reality

Provide kids and parents a joyful and playful way of shopping toys online.

Sonae is one of the largest retail companies in Portugal. We were approached with the need to innovate technologically in one of its main online platforms - Continente Online. The goal was to look for new ways of online communication and captivate the target audience – the children and their parents. For this, after rapid prototyping practices based on Design Thinking methodologies, we developed Mundo dos Brinquedos (Toys World).

Through an interactive exploration of a 3D world populated with elements and animations that capture the user's attention, such as the world rotating 360° and the possibility of zooming to each one of its countries.

Each one of these countries is representative of a category of Sonae's own brands or white label toys. When a user enters in a country (i.e., "Speed Wheels") and click an interactive element, the correspondent category is listed as playing cards, that can be chosen to create a wish list to be used in the existent Continente Online shopping cart.



Big Data



IoT & Connected



Artificial Intelligence



Blockchain



Web Apps & Solutions



Mobile Apps



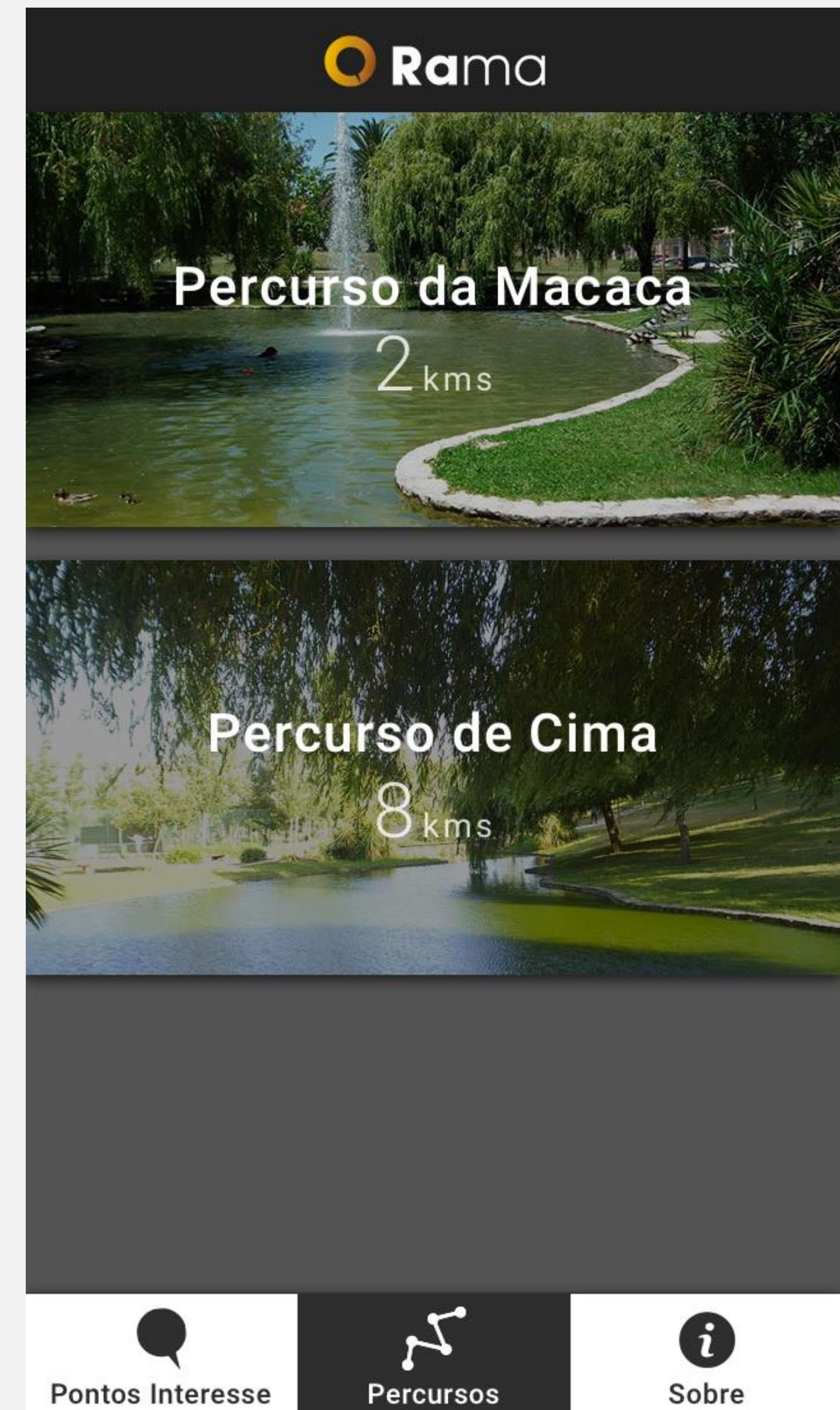
Real-time 3D

AUGMENTED CITY MAP

An innovative way to guide tourists to the city POIs

Load has developed a framework that can be used on mobile (native Android and iOS) to point out locations and paths using Augmented Reality.

This project has already been user in a city, to guide tourists through the predefined paths and to locate the city Points of Interest.



Big Data



IoT & Connected



Artificial Intelligence



Blockchain



Web Apps & Solutions



Mobile Apps



Augmented Reality

Thank you!



Pedro Colarejo

Innovation Projects Manager

pedro.colarejo@load.digital

+351 965 479 743

www.load.digital

www.mastersininnovation.com



Load is part of the **Masters in Innovation** Group, a leading product innovation center.

Av. Dr. Lourenço Peixinho, 96D 4º Andar
3800-159 Aveiro, Portugal

info@load.digital

+351 234 604 088