

**DXspark**®

Igniting Ideas

**PORTFOLIO.**

# Leroy Merlin Portugal (Adeo Groupe) ●



.NET Core, Azure, React, Java, Spring, NodeJs,  
MongoDB, MySql, ElasticSearch



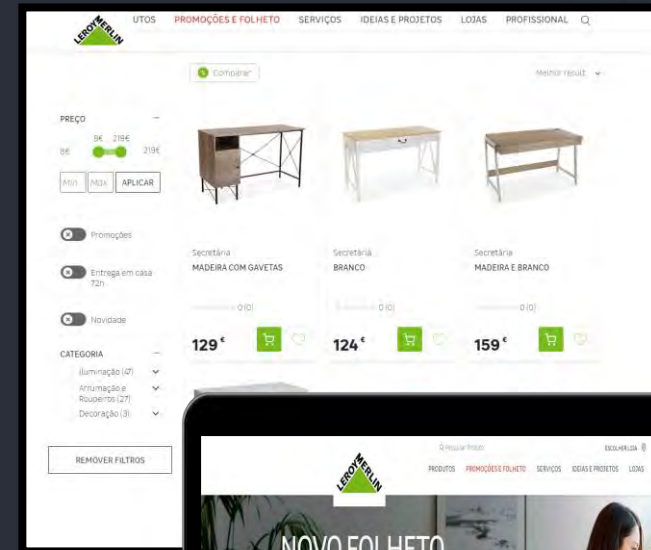
**Ongoing**  
implementation

DXspark's team has been included in this project, in a managed service regime, to help maintain the current projects, integrating and building new required features to Leroy Merlin Portugal website and their systems.

The main goal while the team is updating and maintaining the website is to import ADEO technologies and products into the Leroy Merlin Portugal Business Unit.

CCDP projects like OREO Build Offer (stocks and delivery information), MDM/CIAM (user management), OrderSwitcher (shopping cart) and Cactus (prices) were developed and integrated with the current products used in the Business Unit.

During the transformation to the CCDP website, the Business required improvements to the current solutions, such as offering a new delivery method (relay points) and allowing the use of promotional codes in order to keep up to date with the target market.



# DPD Group / DPD PT.

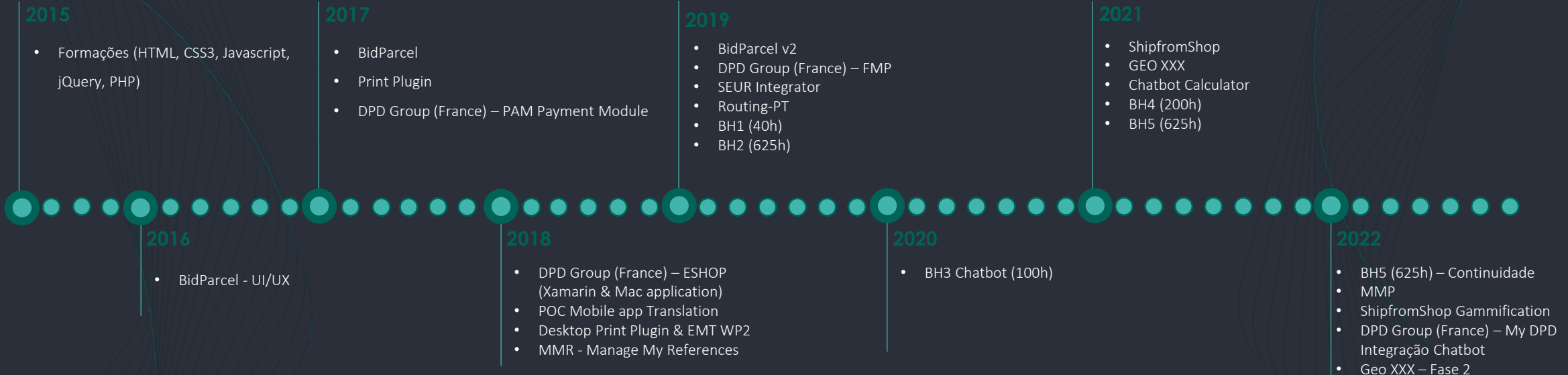


Xamarin, Azure, .NET, Core, Java, Python, PHP



**Ongoing**

analysis and implementation





# CHRONOPOST Portugal - BID PARCEL



Azure Notifications Hub, Firebase, Xamarin

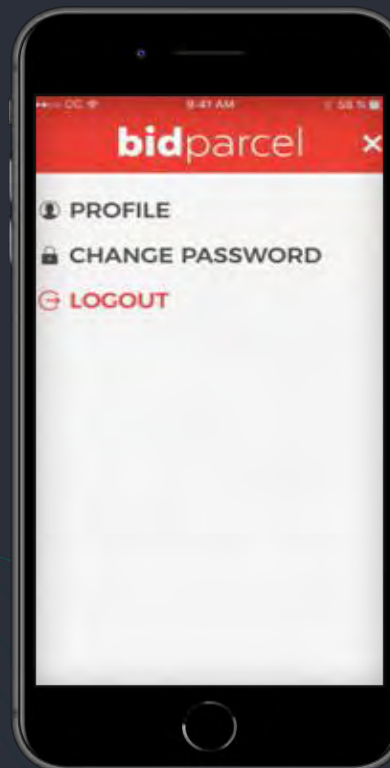


**1240 hours**  
analysis and implementation



**80 hours**  
guarantee

- Functional Analysis;
- UI/UX interface design;
- Navigation prototype (wireframes and mockups);
- Mobile application development and Backoffice ;
- Testing, support, corrective and evolutionary maintenance;



# CENSOS 2021 (INE)



ASP.NET MVC, Azure Notifications Hub, Xamarin,  
Oracle DB

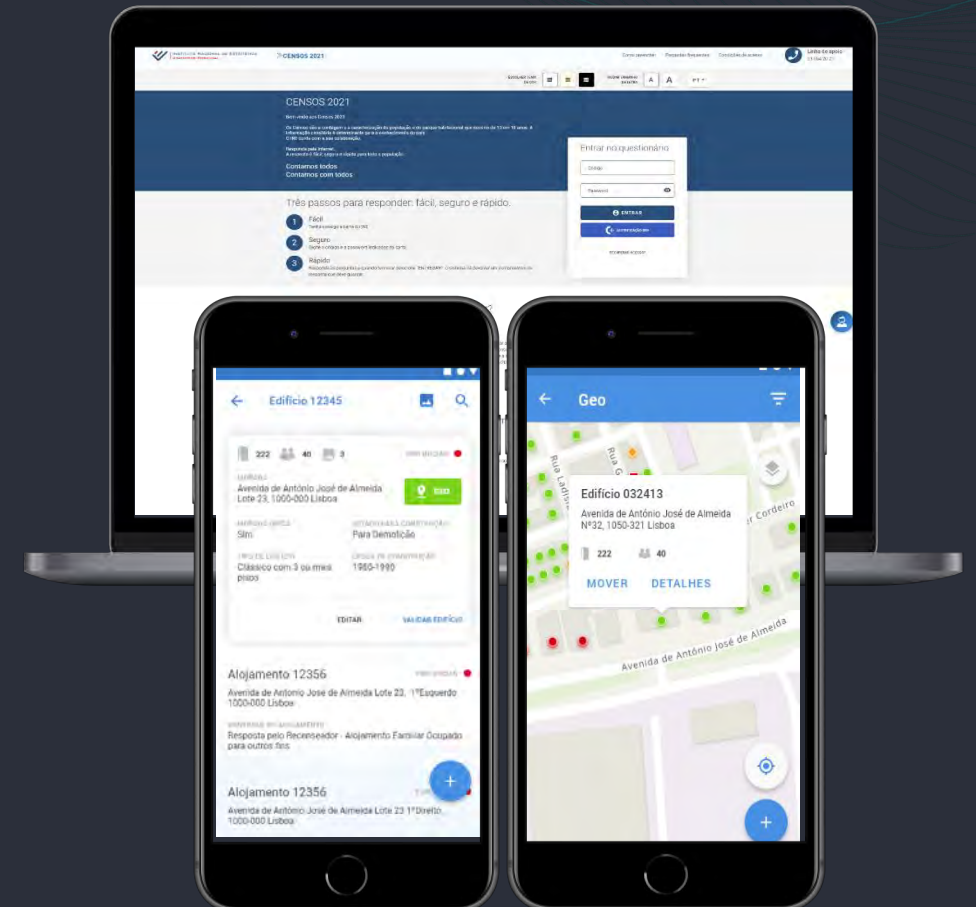


6000 hours  
analysis and implementation

This project results from the need to digitize INE's operational processes in order to facilitate the statistical survey of the Portuguese population.

This solution, after a first proof-of-concept phase in 2018 with field testing of mobile applications and online forms, culminated in the global digital transformation project of the 2021 Censos.

It covers the entire life cycle, including the recruitment of interviewers, support for the registration of accommodation and the distribution of PIN letters by the enumerator, via a mobile application that maps all buildings in the national territory, as well as the filling in of online forms and tools for control of the 2021 Census operation. Still in September this year, the team responsible for the data quality survey will enter the field with another mobile application.



# CARRIS – Website



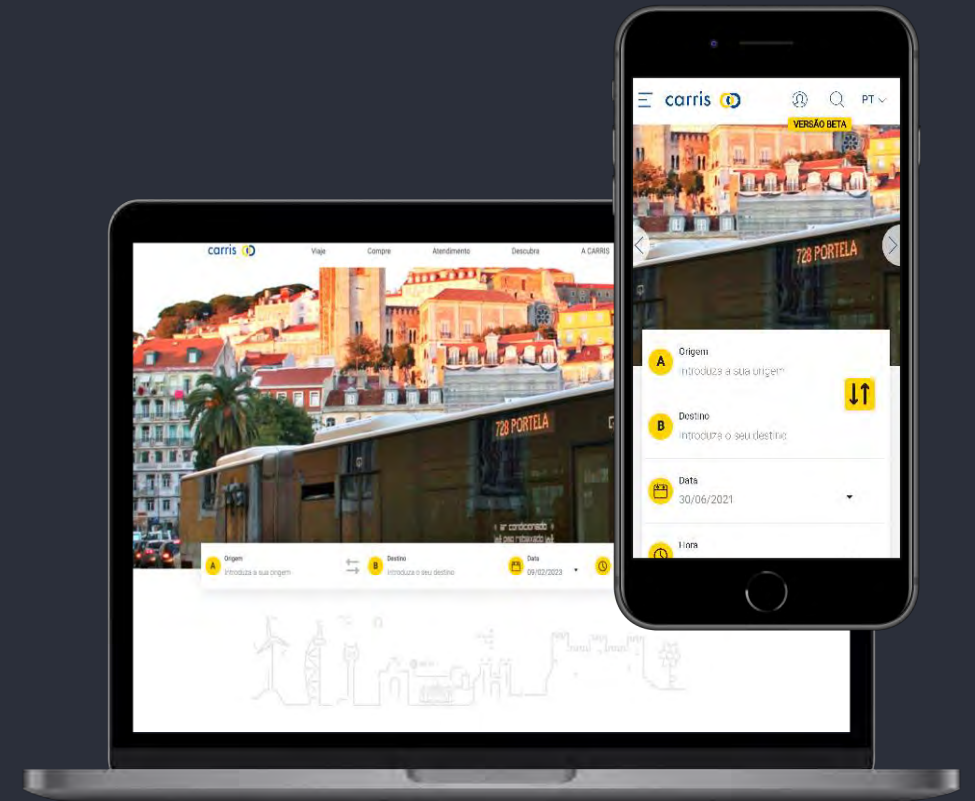
Umbraco, ASP.NETMVC, SQL Server



**Ongoing**  
analysis and implementation

Carris's new website, in line with the best international digital practices in the area of transport, allowing the creation of dynamic content, strong integration with social networks and attractive, responsive and intuitive design.

Development of custom backoffice, using Umbraco, for creation and administration of website content. Integration with payment systems to facilitate existing payment methods and securities.



# CA Seguros – Mobile App



Azure Notifications Hub, Xamarin, Firebase



**2153 hours**  
analysis and implementation

- User Profile - Registration, User Information and CCAM to which client's belong; Digital Cards - Show cards that customers have from CA Seguros, to use in the partner network;
- Near Me - Geolocation of Google Maps services, with Agricultural Credit Agencies, Service Provider Network (filtered by Policy Product);
- Access to policy information and documents; Push Notifications – expl.: message informing the customers about the approach date for inspection of their vehicle.
- Request Assistance - Integration with App CA Insurance Assistance webservice (Automobile, Health and Home);
- Claiming Claim – Place a claim process (via webservice) by filling in writing fields and send photos / files;
- Simulation and Underwriting - Quotation and issuance of simple sales insurance (with few input parameters);





# CA Seguros - Intranet



Umbraco, ASP.NET MVC, SQL Server, Azure Active Directory



**Ongoing**  
analysis and implementation

The project consists of the reformulation of the CA Seguros intranet, seeking a current, responsive and dynamic layout similar to the current image of CA Seguros, improving the organization of contents and access to them, encouraging users to use them more.

News feed (shares, likes and comments), groups, message exchange, birthday list, alerts, highlights, personal area and document repository are some of the features included in the project.

Development of a customized backoffice in Umbraco for creating and managing content and users.



# BAI – e-Kwanza (Agent and Client App) ●



Xamarin, SQL Server, ASP.NET MVC,

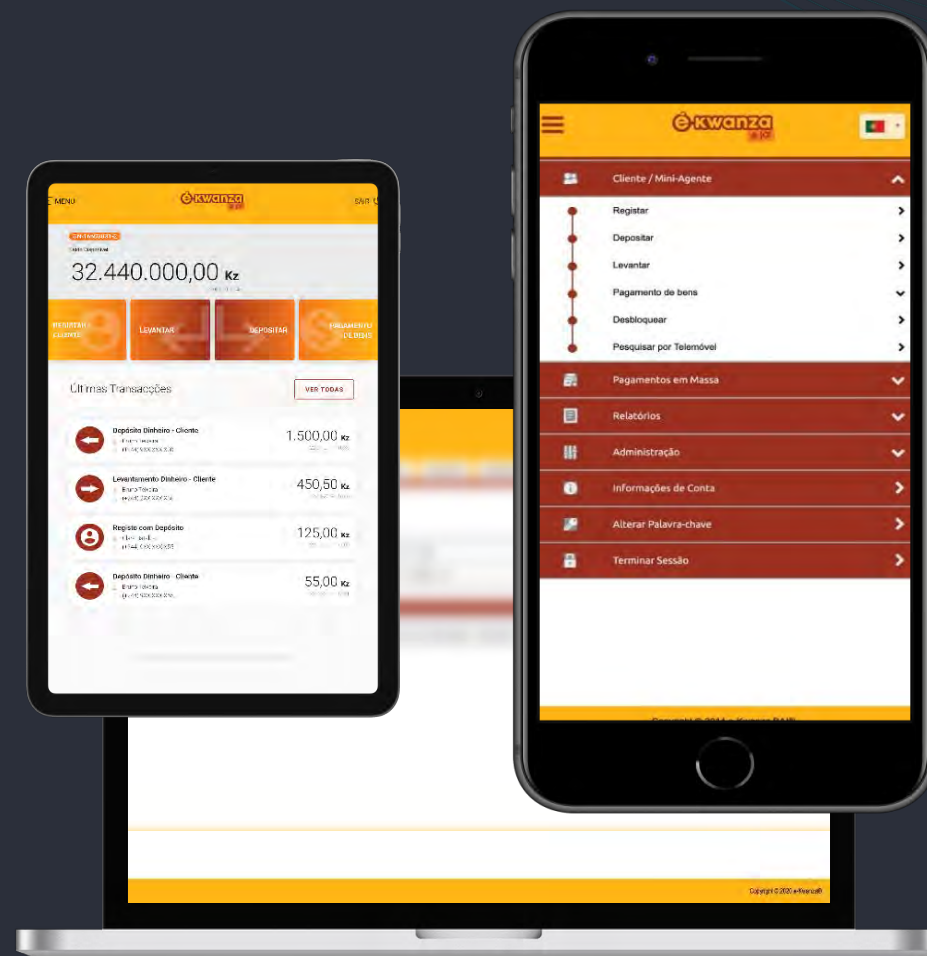


**4000 hours**

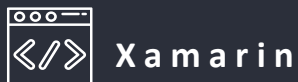
analysis and implementation

DXspark has developed a technological platform that allows the agent of Banco Angolano de Investimento to register and maintain customers, unlock accounts, transfers, deposits and withdraw money, convert money into electronic money and vice versa, payments for goods and services, via Android application.

DXspark has also developed a technological platform that allows Banco Angolano de Investimento customers to register and maintain their data, account unlocking, transfers, deposit and withdrawal of money, conversion of money into electronic money and vice versa, payment of goods and services, via Web application



# SODEXO.



We've offered a quick and intuitive way for users to know their balance on the Sodexo Meal Card. We have developed a mobile application for iOS and Android platforms that centralizes all data and does not use means such as ATM, bank application for receiving them.

This enables the client to check card usage movements, as well as reporting in gamification of the most frequented types of cuisine.



# Bank (confidential) ●



Angular 8, TypeScript, Karma



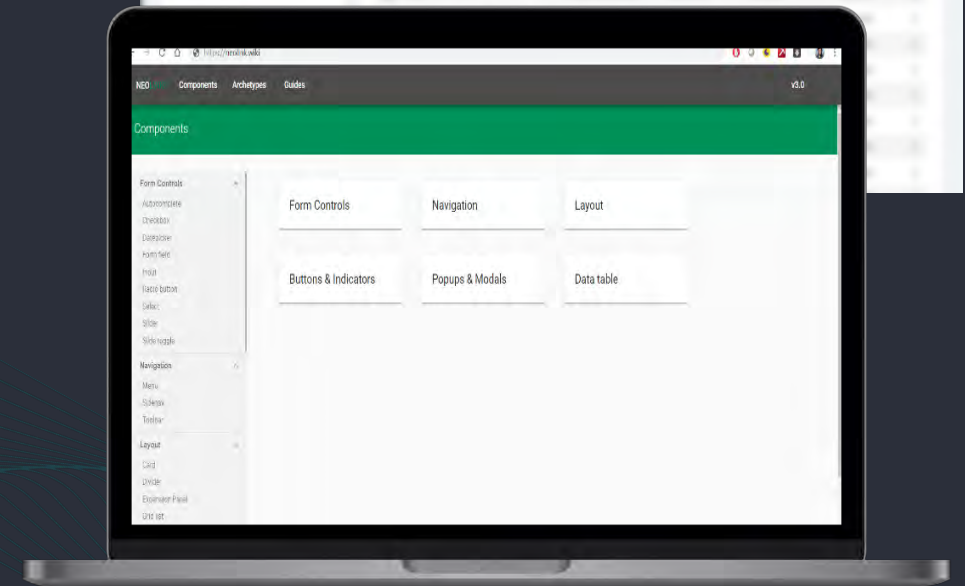
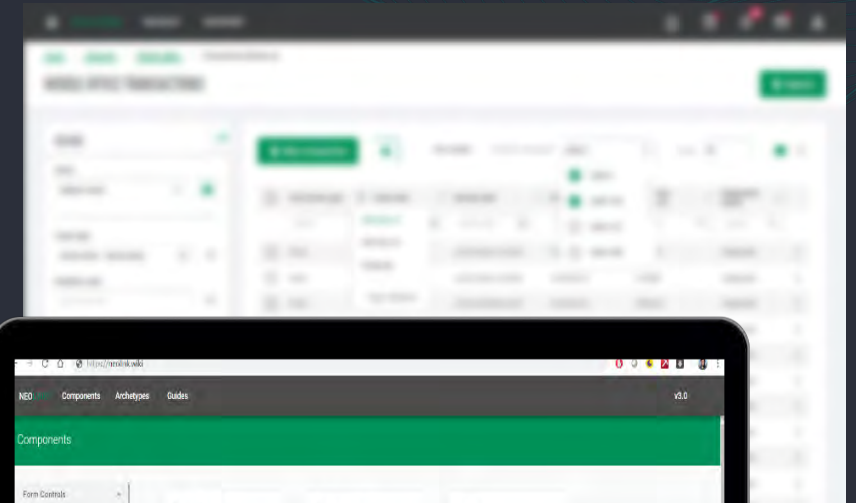
**1600 hours**  
implementation



**1900 hours**  
guarantee

DXspark developed the architecture and library base for this client in order allow their internal teams to develop their own solutions based on this new Material Design spin-off.

The challenge consists of redesigning material design components and features accordingly to pretended custom design system.





Azure Notifications Hub Firebase, Xamarin



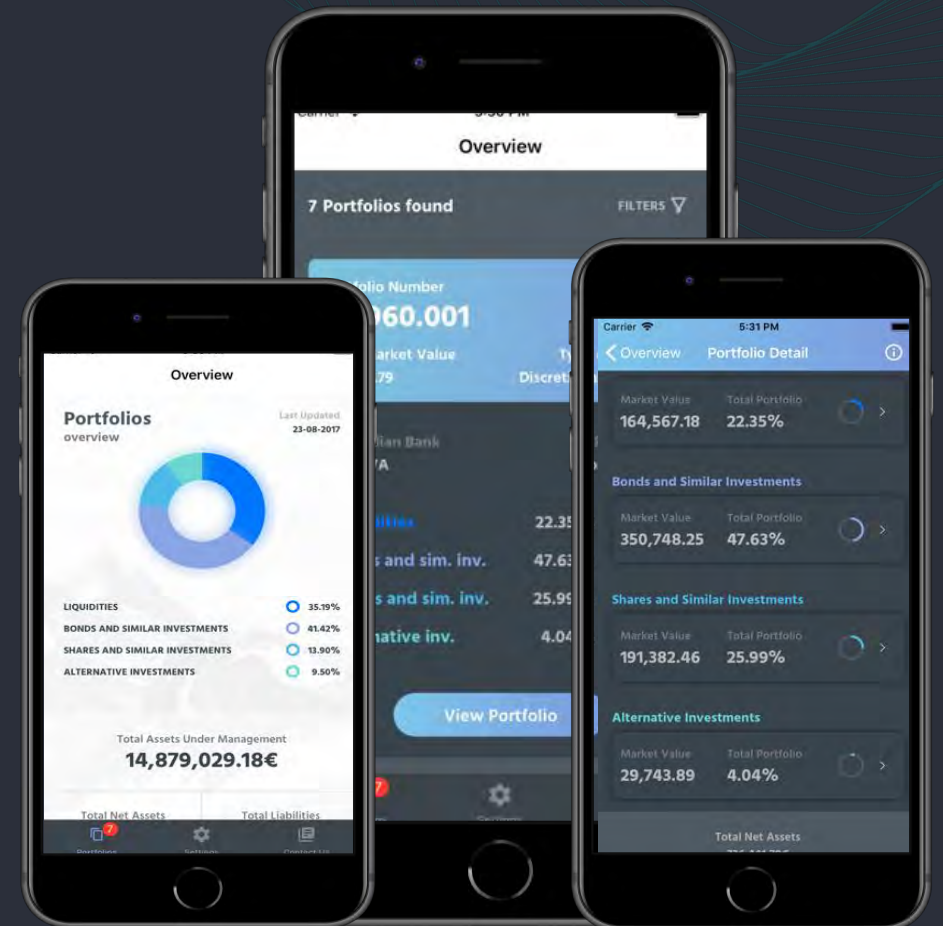
**675 hours**  
analysis and implementation



**80 hours**  
guarantee

The application developed for FullSix, for a banking organization, enables users to consult their product portfolios, their composition and profitability.

This application also enables receiving notifications on message alerts and interacting with your account manager.

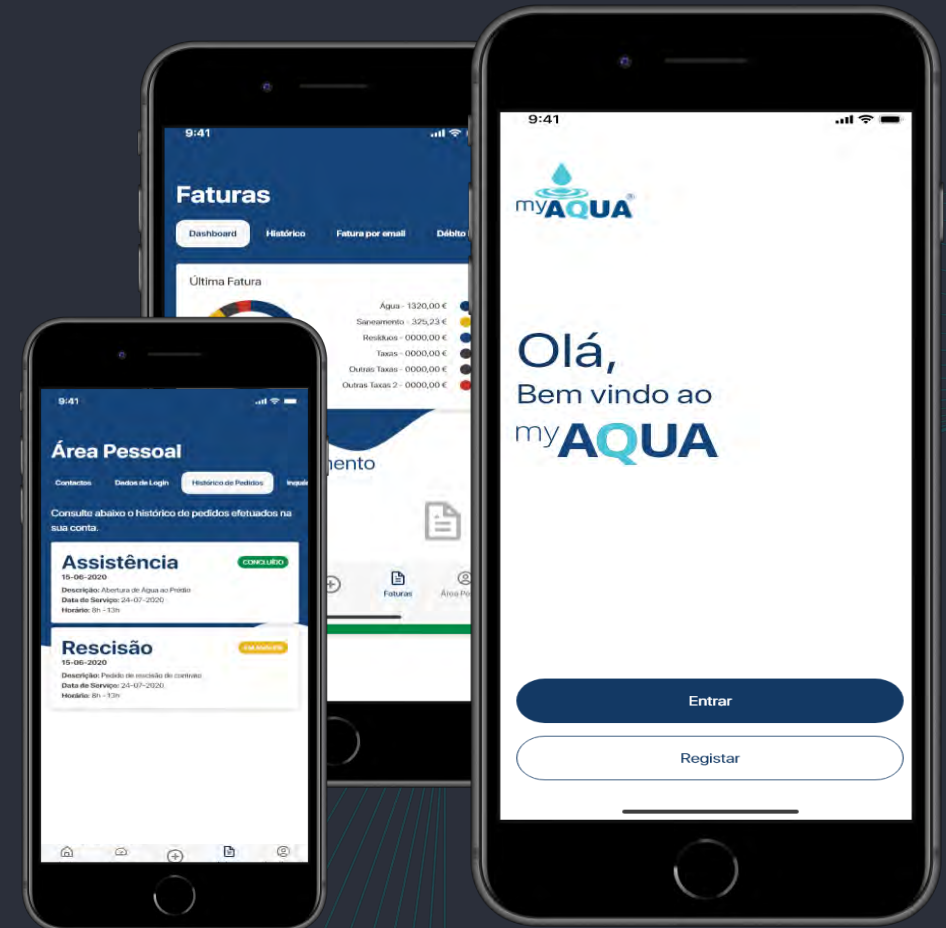


# EPAL - My Aqua 2.0.



Application for individual, multi-company management to manage the contractual relationship with a water supply entity in Portugal. Display of consumptions, reading communications, payments, assistance requests, authentication with GOV authentication.

- GOV authentication;
- Selection of multi-company water supply contracts (Portugal) with connection to dedicated gateway according to context;
- Reporting of anomalies and requests for assistance;
- Monitoring the status of assistance requests and reporting of anomalies;
- View summary and download invoices; Payment of in-app invoices via ATM reference or MBWay (integration with SIBS Digital Payment Gateway).
- News related to the entity and service provided; Access to communication and reading history;



# EPAL – AQUA Serviços.



Android Java

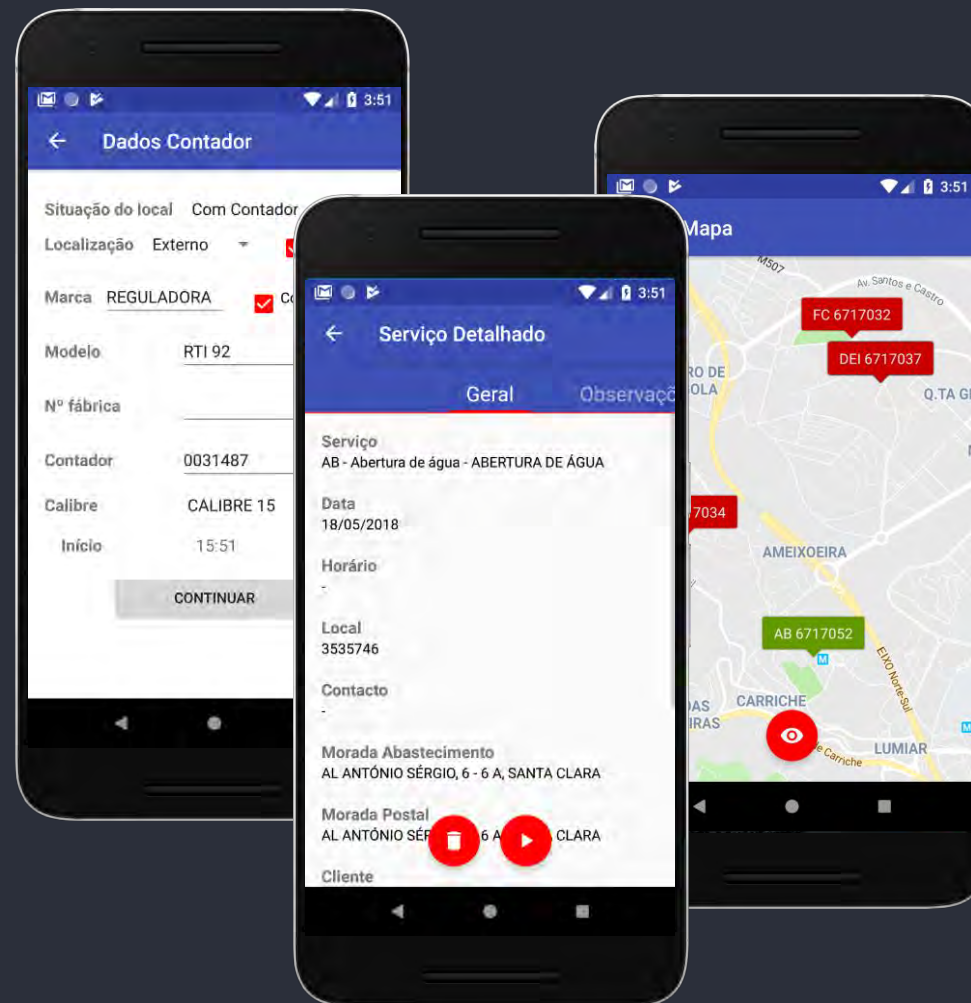


**2560 hours**  
analysis and implementation



**160 hours**  
guarantee

The application allows to georeferencing the location of the services to be performed and to navigate to them, to enable the update of the services that are associated to the user in context. Even offline, this feature is enabled by accessing local device maps and later synchronizing with central services when the device has mobile network available.



# EPAL.NET – balcão único



ASP.NET, Oracle



**3260 hours**  
analysis and implementation



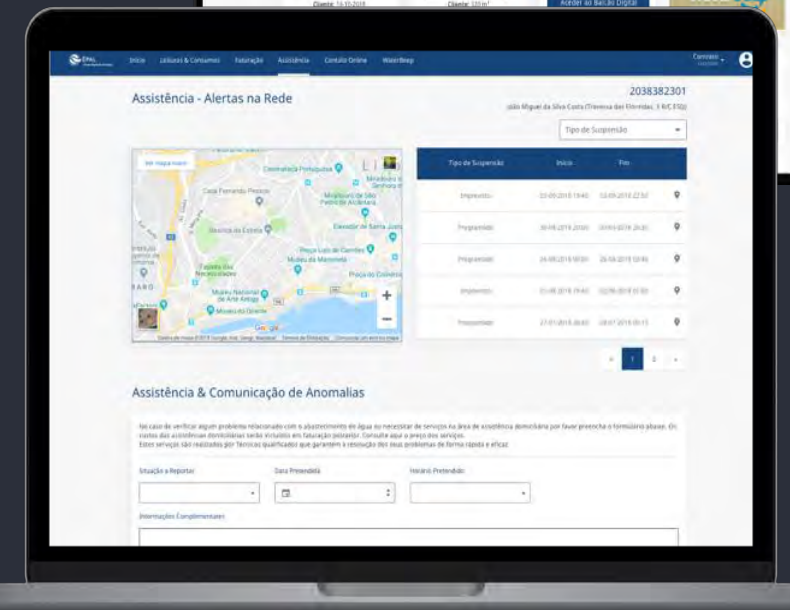
**190 hours**  
guarantee

The new “Balcão Digital” (Single Shop) portal enables end clients to interact with the managing entity in an intuitive way. It serves as a communication channel between the client and the provider company, leading to more effective monitoring by the client.

Modular development was carried out from two functional blocks. The Balcão Único (Single Shop) Portal and Web Services Layer, which connects Aquamatrix to the public website “Balcão Único”. And the multi-company and multi-language Website, which through the implemented solution enables adapting each website to the respective company. The use of HTML and CSS allows for one look&feel per managing entity.

*“Over the years we have worked with DXspark, we have recognized in this company an excellent performance and strong commitment to solving the challenges presented by us, showing great professionalism and having a set of highly qualified and responsible employees.”*

Ricardo Silva, AQM-Aquamatrix Department Coordinator, EPAL - Empresa Portuguesa das Águas Livres, S.A.





# Vogue Homes – SIIF



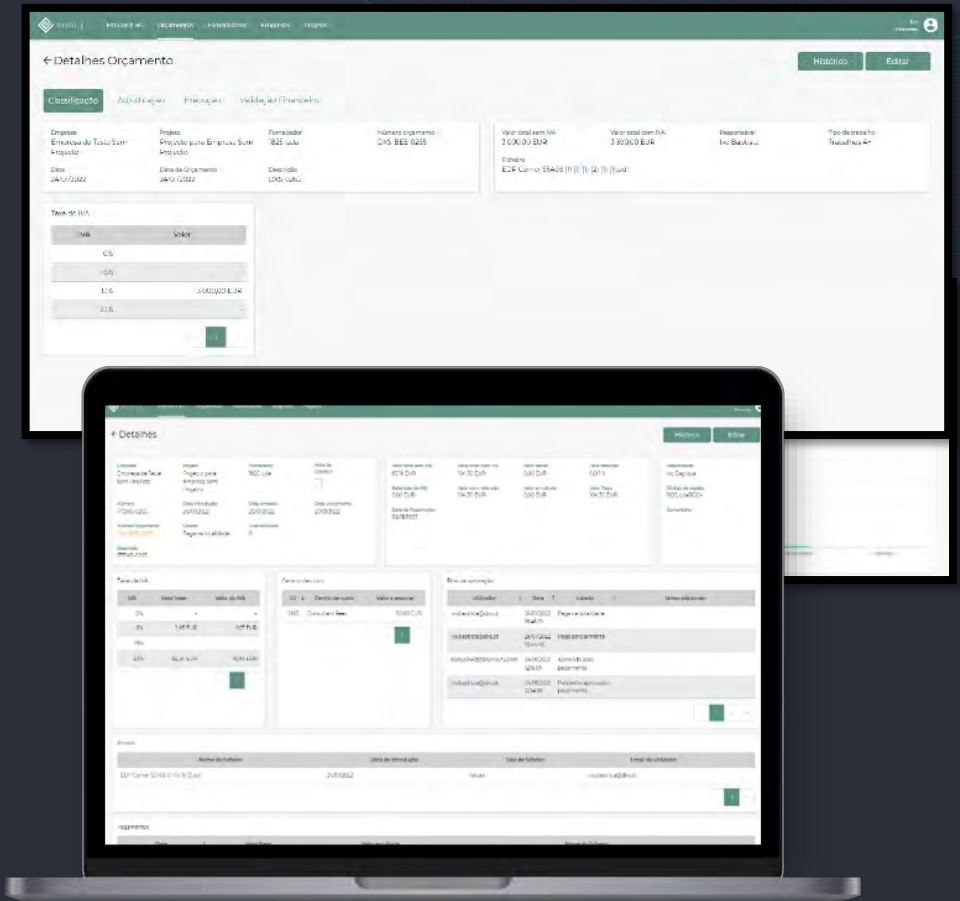
.NET Core, PostgreSQL, Azure Cognitive Services



**Ongoing**  
analysis and implementation

DXspark has developed the Integrated Financial Management System (SIIF), which consists of a platform for managing budgets and respective invoices from suppliers of companies in the Vogue group. Both quotes and invoices have an approval flow so that both documents are validated by the responsible departments in your group.

This platform contains a dashboard with global information on invoices and respective projects. In addition, it also has an OCR mechanism, through integration with the Microsoft Azure Cognitive Services service for recognition and automatic filling of information related to invoices when they are uploaded to the SIIF.

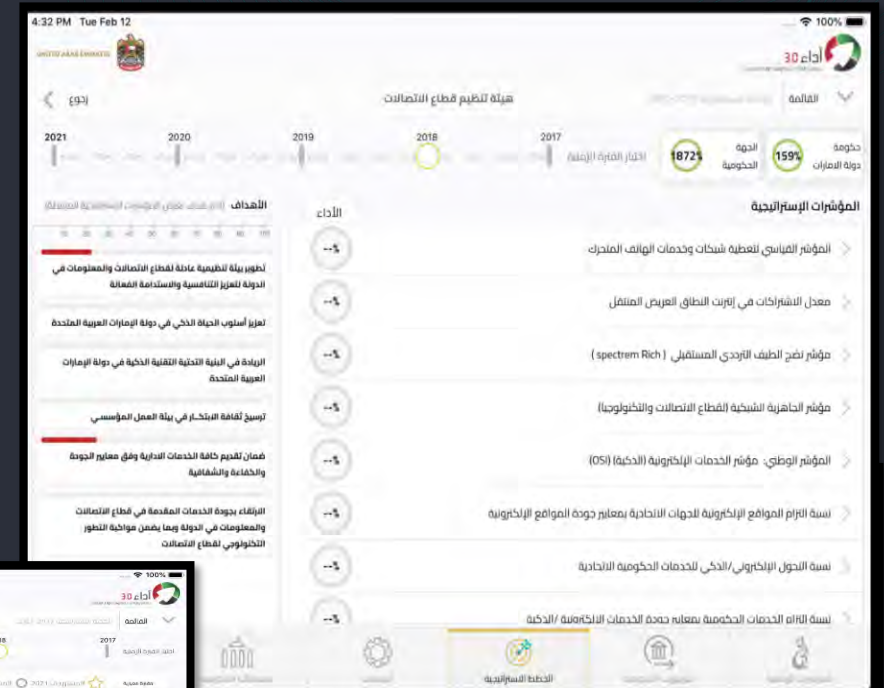


# UAE Gov (Timwe)



Project developed to measure Dubai prime minister office KPIs about all the Ministers departments inside it.

Platform allows to compare this KPI's with other countries around the United Arab Emirates.



# LNEG – Laboratório Nacional de Energia e Geologia



Umbraco, ArcGIS, Javascript, REST/Json HTML5, CSS, Bootstrap, SQL Server



**9 months**  
analysis and implementation



**3 months**  
guarantee

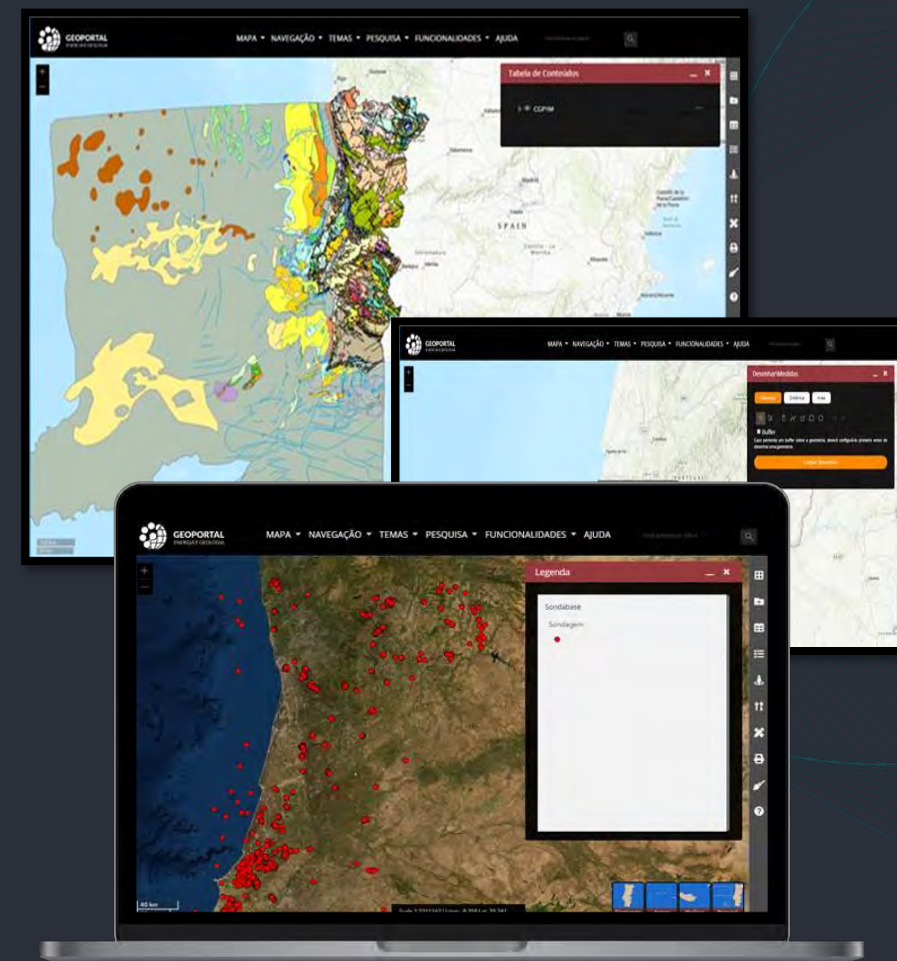
The main objective of the project is to convert the LNEG GeoPortal to a new, more intuitive, user-friendly and adjustable interface and, when applicable, accessible via mobile devices, facilitating research and access to information anywhere and at any time.

The implementation was based on using Javascript / HTML5 / CSS technology and Esri platform, using the Javascript 4 API.

The creation of the new GeoPortal included:

Development of the new economic georeferencing platform;

Integration with various applications and thematic applications to support fieldwork, namely: Geosites App, LNEGMapView, LNEGCollector, LNEGSurvey App.



# agap2IT website



Umbraco, ASP.NET MVC, SQL Server

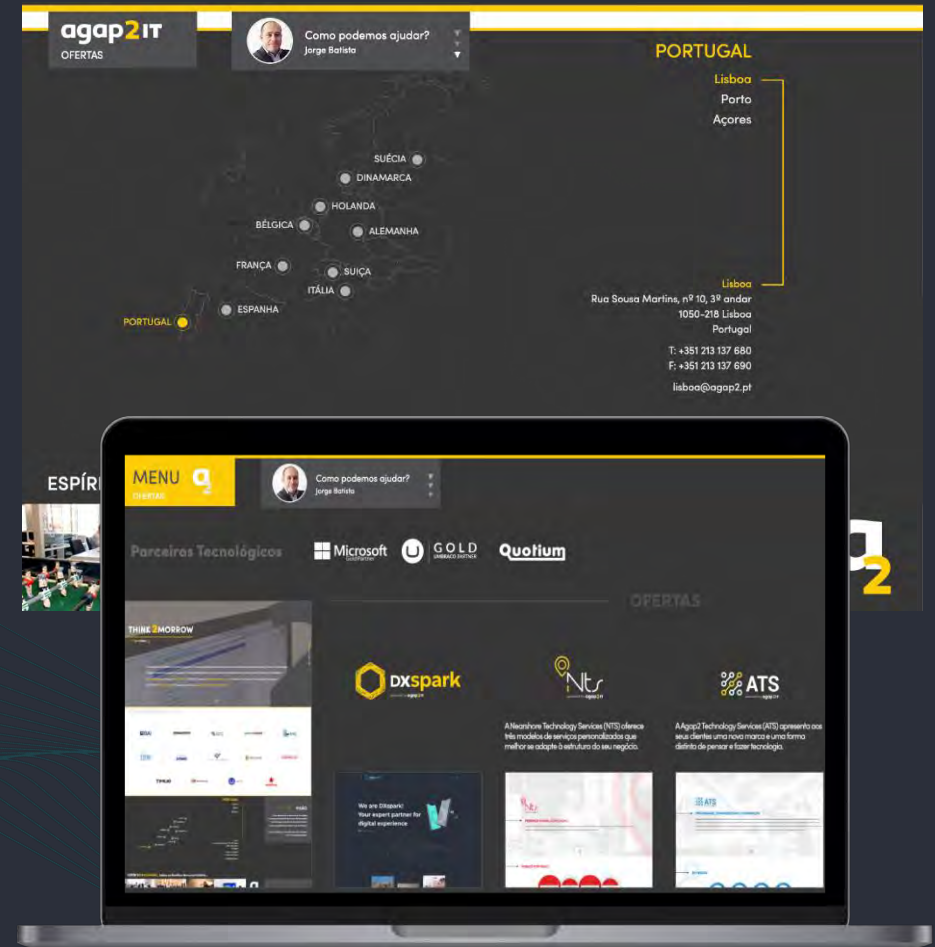


**2 months**  
analysis and implementation

New agap2IT website, which allows the creation of dynamic content, strong integration with social networks and an attractive, responsive and intuitive design.

It allows users to consult articles, career opportunities, spontaneous application and contact form.

Development of a customized backoffice in Umbraco to create and manage website content.



# DXspark website



Umbraco, ASP.NET MVC, SQL Server



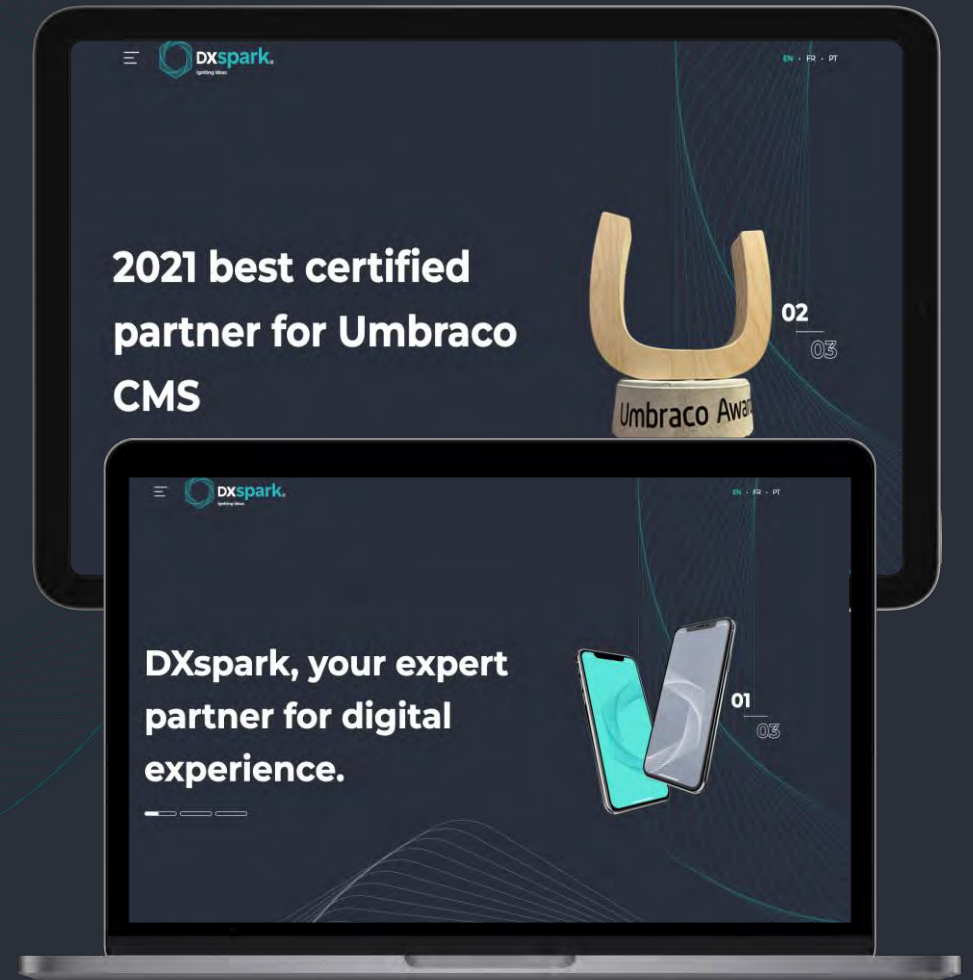
**2 months**

analysis and implementation

New DXspark website, which allows the creation of dynamic content, strong integration with social networks and an attractive, responsive and intuitive design.

It allows users to consult articles, career opportunities, spontaneous application, informative stories with the possibility of sharing and automatic calculator for service calculation through parameterizations of the user's choice.

Development of a customized backoffice in Umbraco to create and manage website content.



# Team.it website



Umbraco, ASP.NET MVC, SQL Server



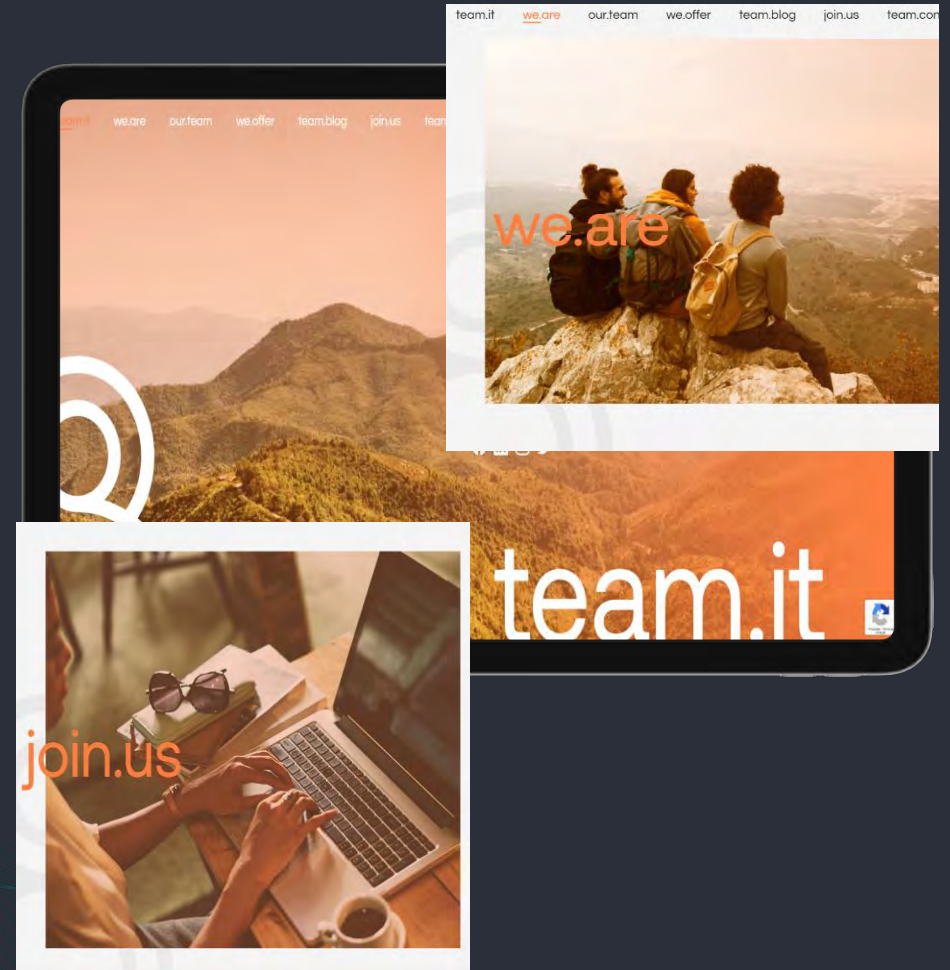
**2 months**

analysis and implementation

New Team.it website, which allows the creation of dynamic content, strong integration with social networks and an attractive, responsive and intuitive design.

It allows users to consult articles, career opportunities, spontaneous application and contact form.

Development of a customized backoffice in Umbraco to create and manage website content.



# Fonte Viva – e-commerce



Umbraco & Merchello, SQL Azure, MS Cloud Azure



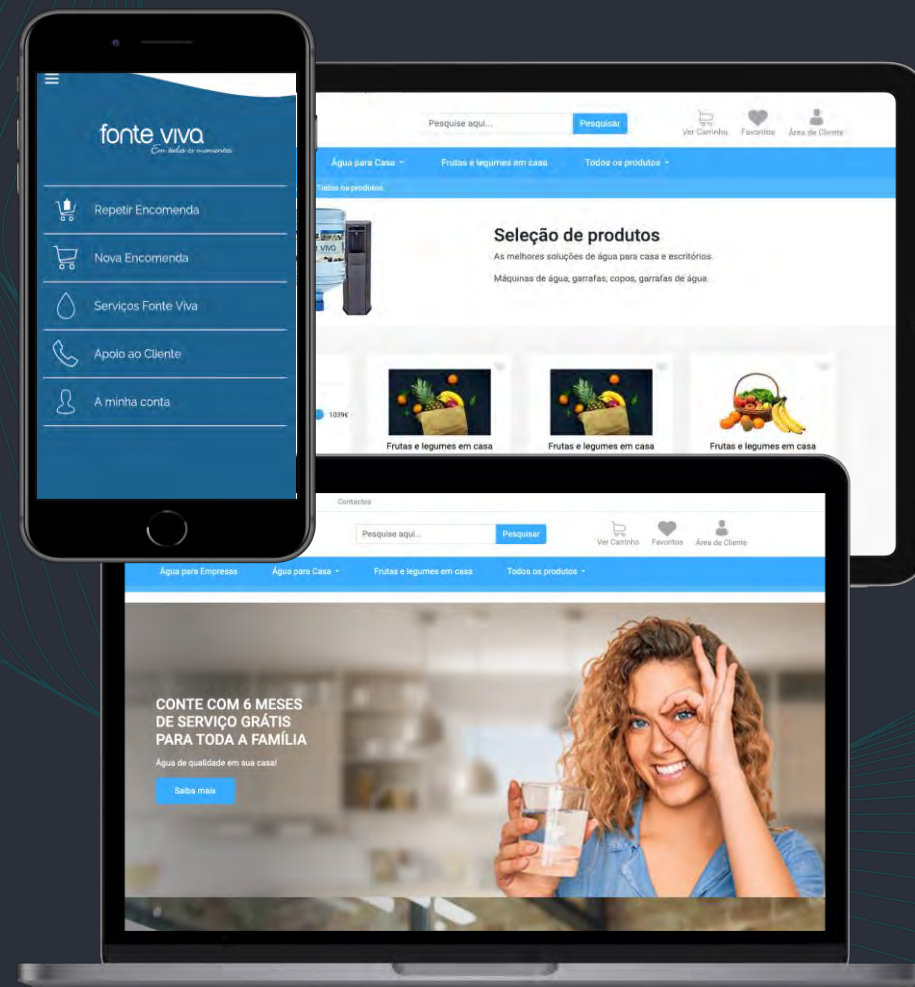
**2060 hours**  
analysis and implementation



**260 hours**  
guarantee

Fonte Viva sought a new approach to its e-commerce website: with the ability to be a good showcase of products and the possibility of buying products and services online, with its own e-commerce dynamics, integrated with payment systems from SIBS Digital Payment Gateway.

It focuses on communication with the client, with interactive content, richer, more interesting, more customer loyalty, and that provides a detailed analysis on the various contents, campaigns and objectives defined.



# Botelho & Rodrigues.



ASP.NET Core MVC, SQL Server



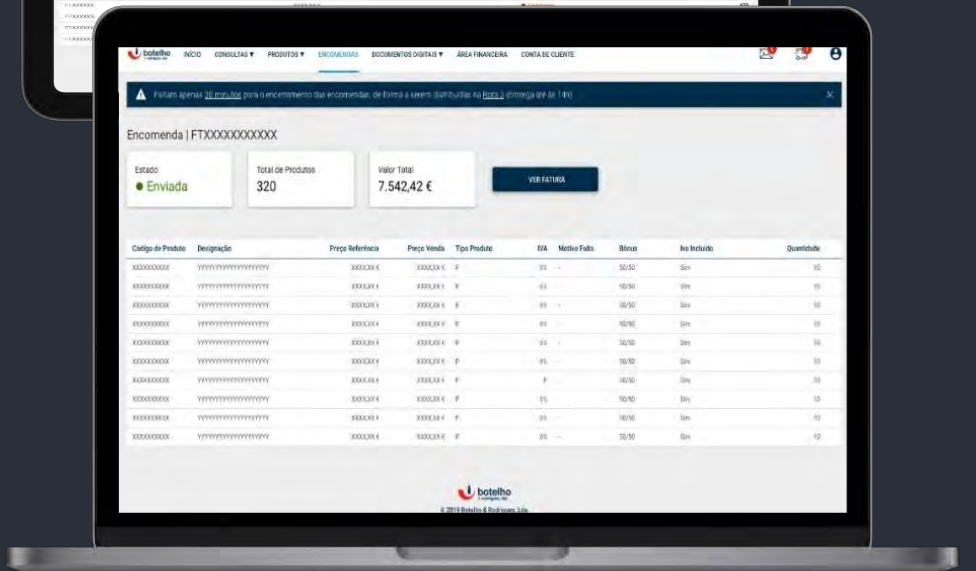
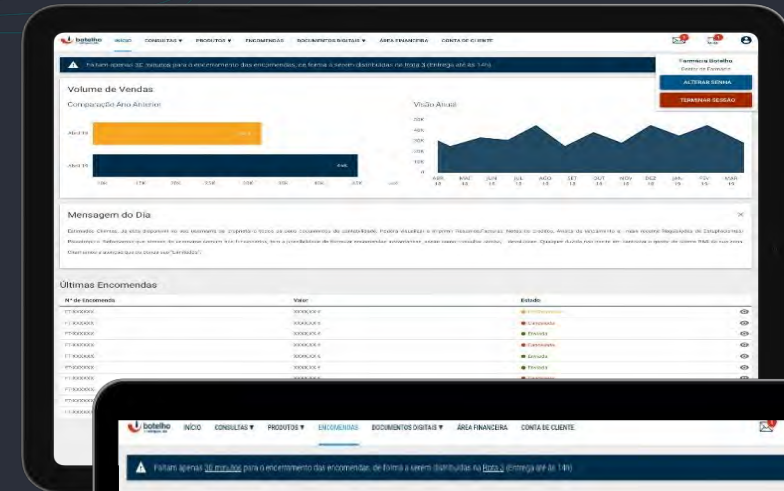
**560 hours**  
analysis and implementation



**40 hours**  
guarantee

Implementation of a web application for managing products, campaigns, customers and orders.

- Development of a customer area with the ability to place orders for products managed in BackOffice;
- Integration with systems through SOAP or REST Webservices; Integration of files made available in fileShare, to be imported into the new system to be implemented;
- Product consists of an implementation in C#.net core. This implementation provided for the provision of a platform with a database management system, running on a set of servers located in the customer's infrastructure.
- The Backoffice – C#.NET Core MVC application, where all the administrative management of the frontoffice application is carried out; The Frontoffice Website – C#.NET Core MVC application, which serves as an entry point for customers, with access to pages and content parameterized in the BackOffice and access to the area of customers, products and orders, and campaigns parameterized in the BackOffice;





# Bene Farmacêutica.



ASP.NET MVC, SQL Server



**1440 hours**  
analysis and implementation

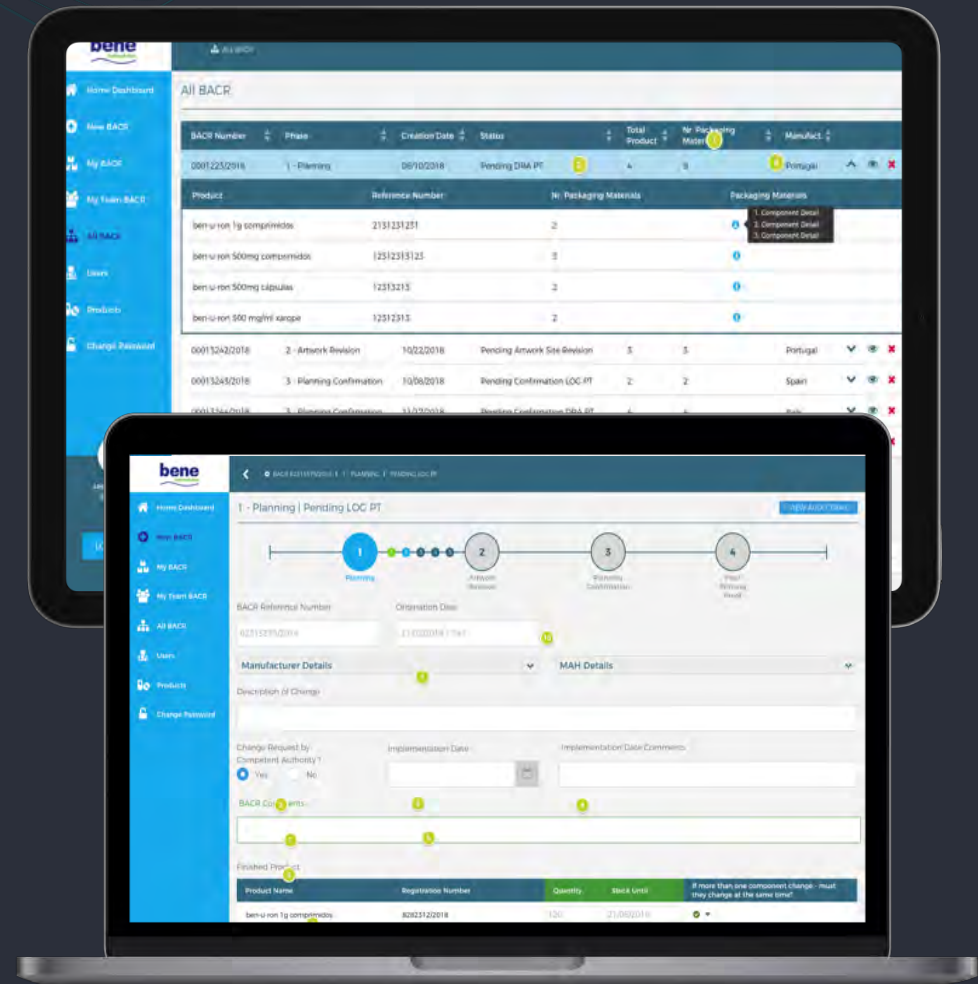


**90 hours**  
guarantee

Implementation of a web application “BENE Artwork Manager” to promote efficient management of the Change Requests process associated with Artworks of products.

The main objectives of the implementation:

- Reduce the amount of communication via email;
- Facilitate the information exchanged during the process;
- Have an electronic tool capable of recording and archiving all Change Requests associated to Artwork;
- Digital platform capable of sending notifications/alerts via email
- Present updated information on this platform.



# Global Media Group.



Xamarin, Firebase, OneSignal



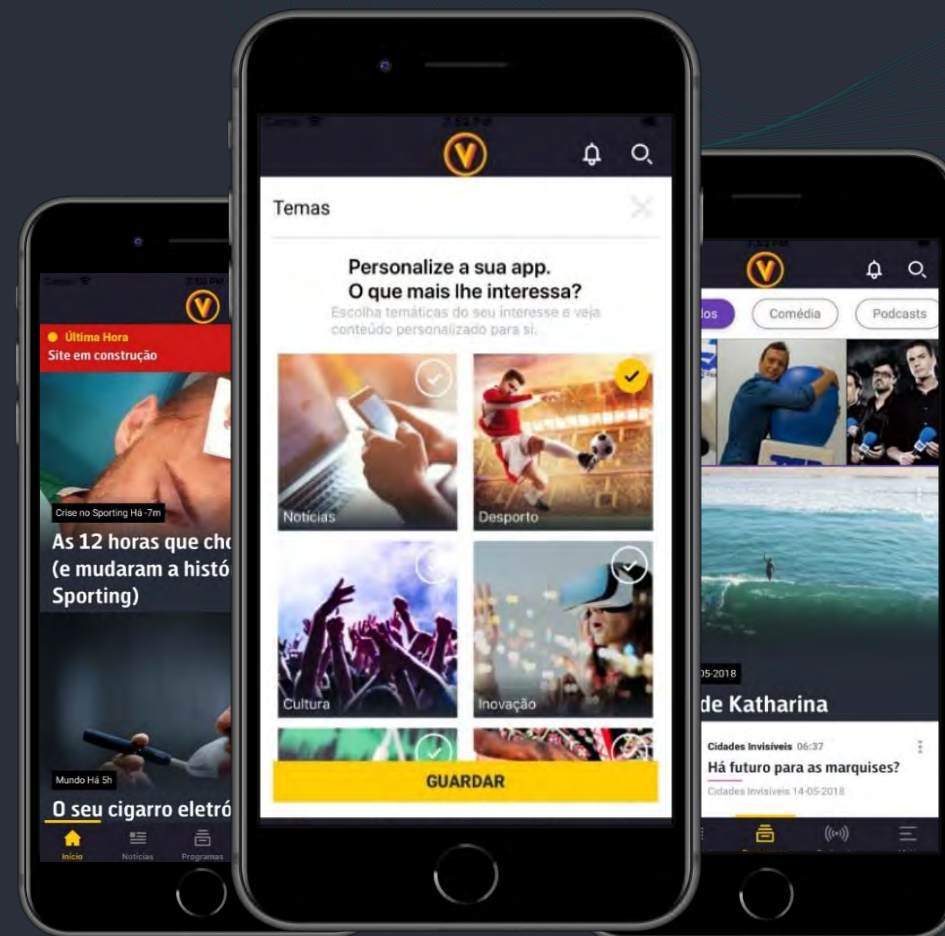
**700 hours**  
analysis and implementation



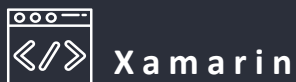
**60 hours**  
guarantee

Functional analysis and UI/UX interface design with navigation prototype (wireframes and mockups). Development and testing of the solution as well as support, corrective and evolutionary maintenance.

Maintenance of various brands / media entities belonging to the Global Media group.



# Digital Gravity - Descubra



Functional analysis and UI/UX interface design with navigation prototype (wireframes and mockups). Development and testing of the solution as well as support, corrective and evolutionary maintenance.

- 360° photo presentation;
- Selfie using the camera;
- Reviews and evaluation;
- Multilingual application;
- Find points of interest;
- Push Notifications;
- Integrated backoffice management;
- Share on social networks;
- Offline use to access content.





# SLG.



ASP.NET Core, Microsoft Azure App Service Linux, PostgreSQL



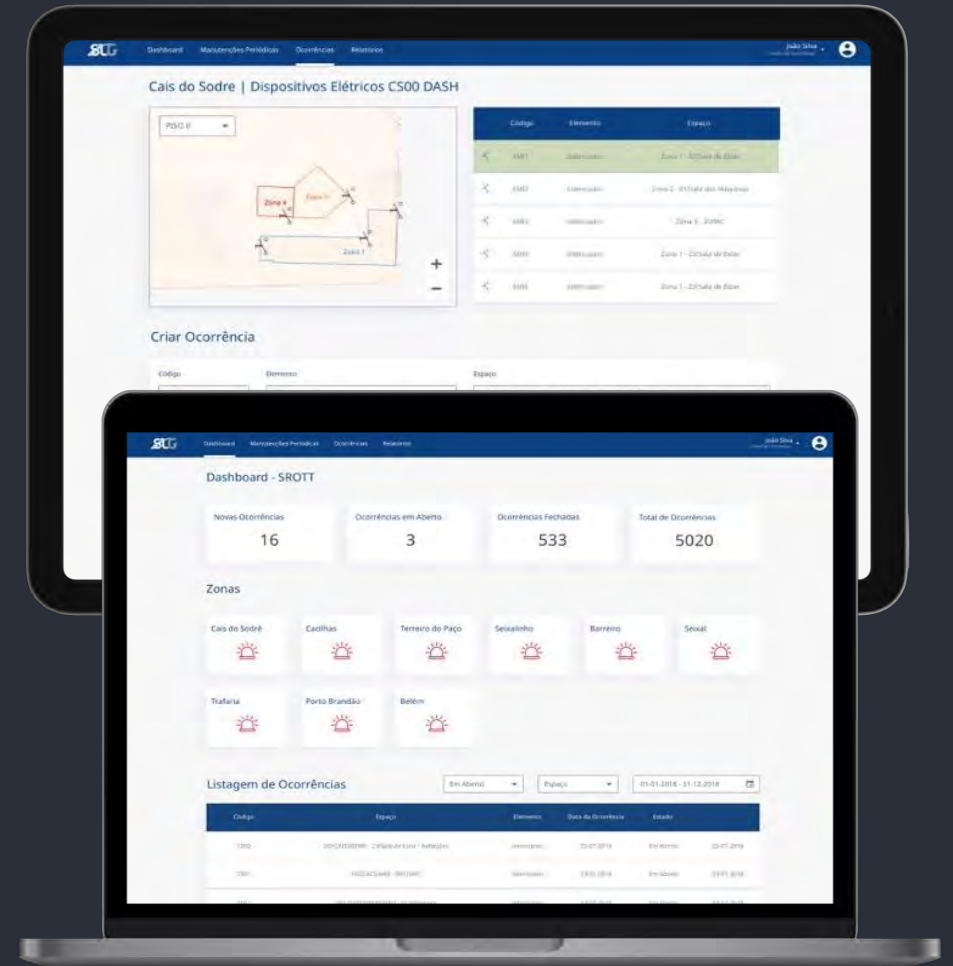
**860 hours**  
analysis and implementation



**60 hours**  
guarantee

The Lusa Society of Geengineering (SLG) aimed to launch a web application for the management of occurrences.

DXspark developed a responsive web application that enables the consultation and administration of user profiles as well as management of plants, elements and their positioning so that they are consulted and associated with polygons, in the form of a plant



# Innseco – One Community.



ASP.NET MVC, SQL Server



**8500 hours**

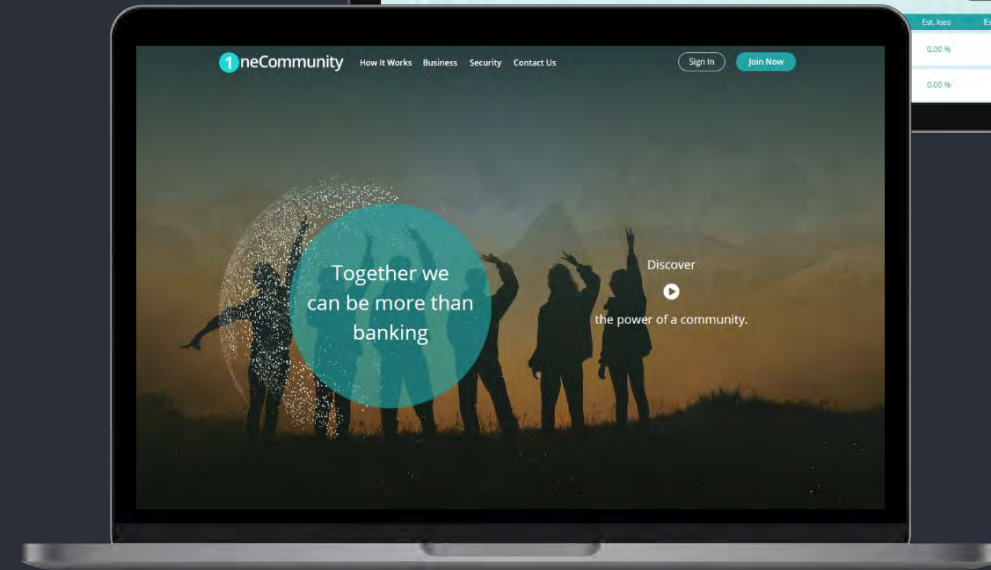
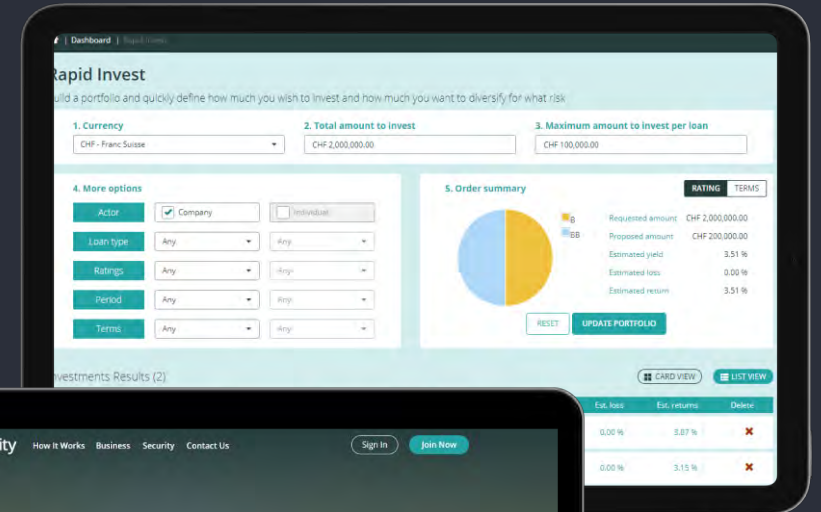
analysis and implementation



**1500 hours**

guarantee

P2P lending is a Fintech solution being the practice of lending money to individuals or businesses through online services that match lenders with borrower.



# AUTOMOTIVE Projects.

Despite being agnostic in terms of technologies for working in web or mobile our team has more common experience using Microsoft technologies on web projects and specifically with Xamarin for mobile projects. In terms of web the decision is influenced by clients' requirements, projects technological context or our gold partnership with Microsoft.

In terms of mobile the choice is based on a business strategy of having a business shared layer developed on same language, in this case .NET, to reduce maintainability effort and reduce risk in case there's a need to reinforce development team with .NET developers. Although, we have this strategic approach, we have a significant experience developing with native languages as Swift or Objective-C for iOS and Java or Kotlin for Android.

With several mobile apps developed we accepted recently a new challenge along with our client Faurecia Aptoide to develop Android Automotive OS Apps for their stores and own operating system.



# Faurecia Aptoide Use Cases.

## FOURSQUARE

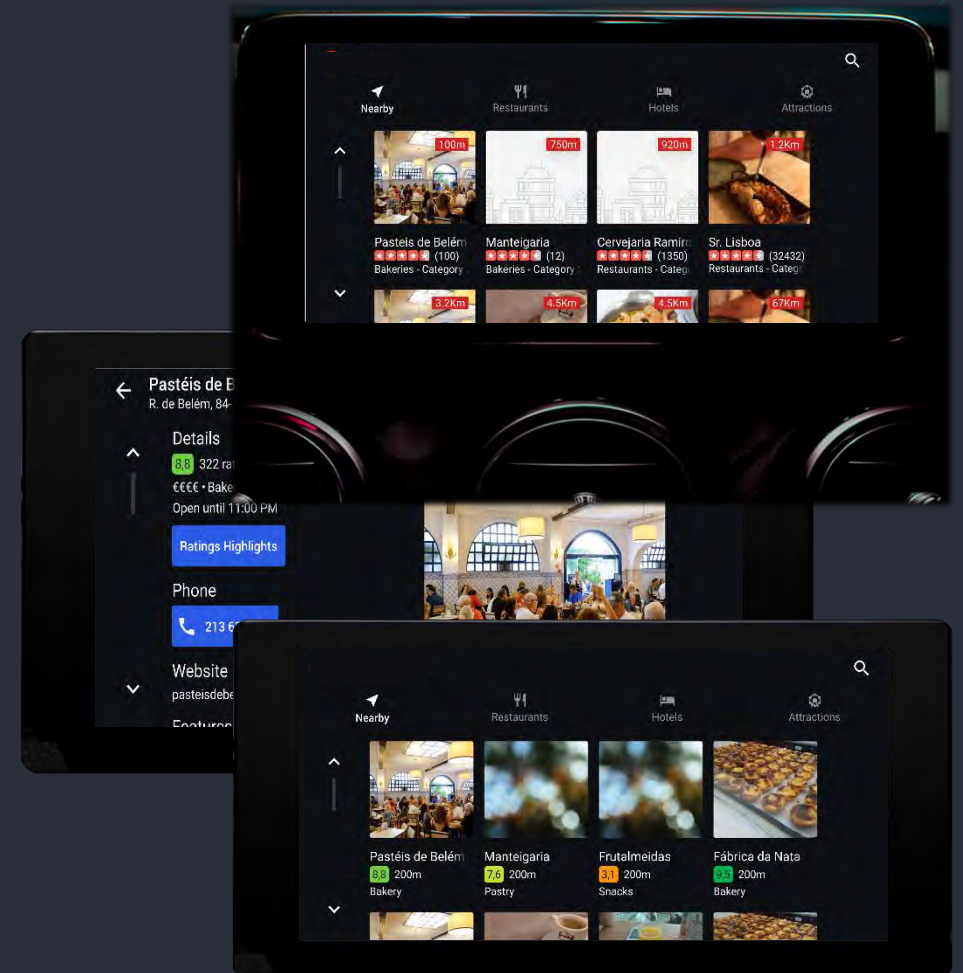


The project consisted in the development of two Point of Interest applications for the Android Automotive operating system, with a view to worldwide use. In addition to the development of the two applications, the project also included the definition of the UX/UI, respecting the guidelines of the respective brands as well as the Android Automotive guidelines.

The applications are made up of several functionalities, such as: gallery, search by key words, search results by georeferencing, navigation to the point of interest via navigation intent and dial intent for direct call to the point of interest.

*"For Faurecia Aptoide, DXS' participation in the project was extremely effective and produced decisive results for the project. It was possible to develop both applications with the necessary functionalities for the project's success in a planned calendar of 1 month and a half. It is with great satisfaction that we have DXS as our partner, counting on its excellent performance, professionalism and commitment."*

**Paulo Ferreira,**  
Head of Partnerships Faurecia Aptoide 2021



# Open Weather.

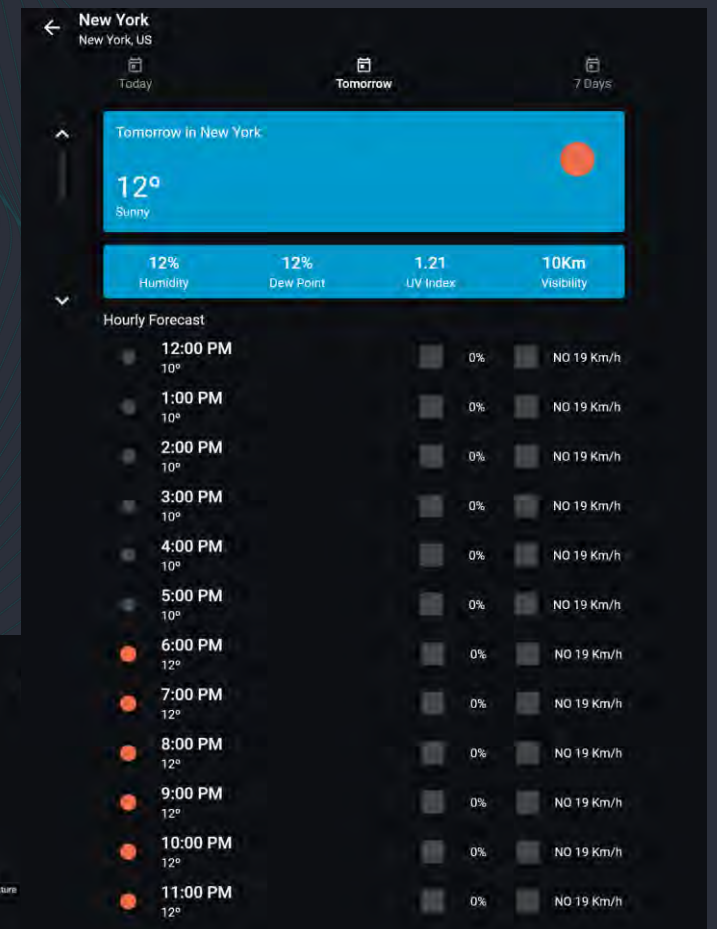
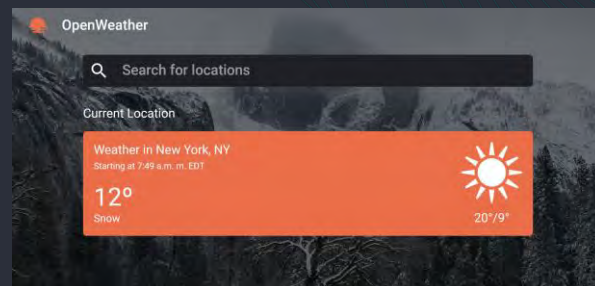
Bearing in mind a successful result on the other applications DXspark moved forward and answered to a new tender.

One of the main applications that is present on most of all mobile devices is the weather forecast application. This app is used as a tool for several purposes.

The intend was to bring a weather tool to the automotive context and allow users to check weather forecast, based on there location, using The Weather Channel available information.

Based on TWC application graphic standards and assets, as Google guidelines for AAOS app development, DXspark designed and created as a useful and necessary application tool for weather forecasting.

User is also able to search for specific locations, check the weather for current day, for the next day and for the next 5 days to come. On moving, the app can adjust its own content based on vehicle location and show weather at that moment using a widget present on Home screen of his in-dash.





# Productivity App.



Recently DXspark gone deeper in AAOS app development by creating a productivity app so users can access their Microsoft account, consult calendar events associated and also join Teams video/audio calls.

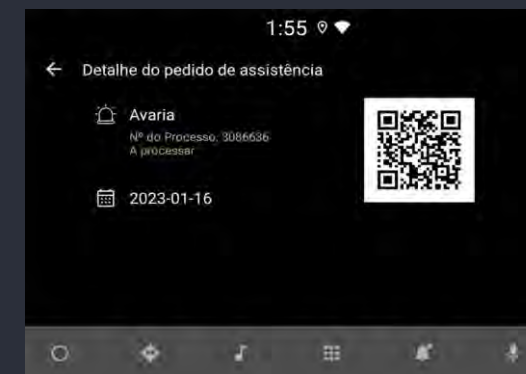
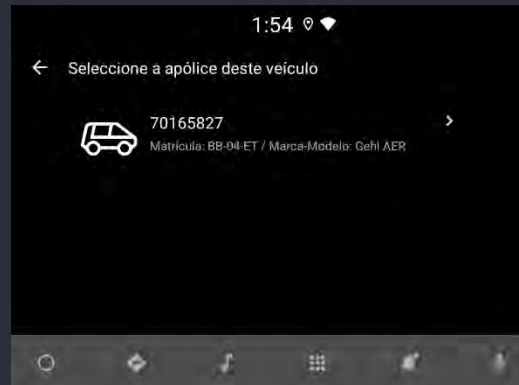
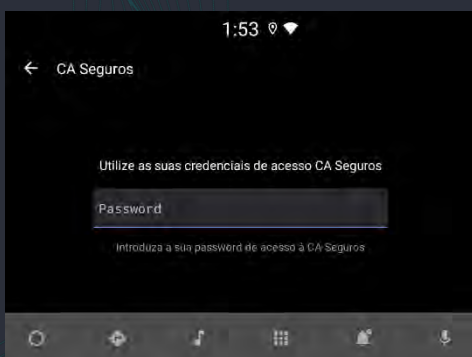
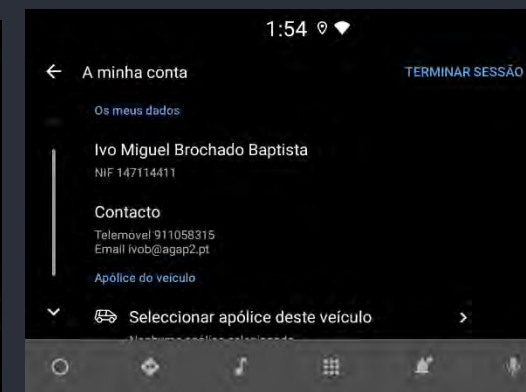
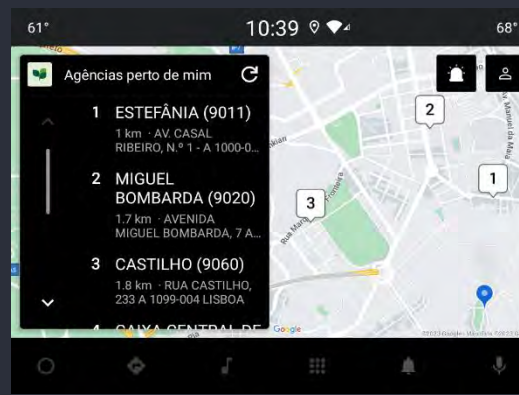
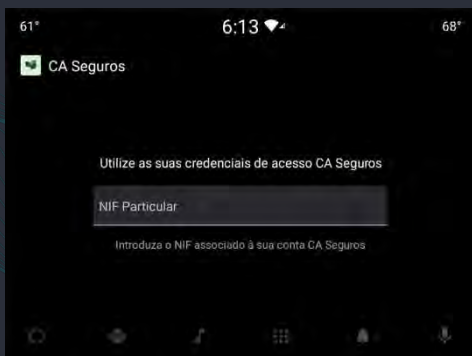
Also based on design guidelines principles, in these case from Google and Microsoft, DXspark overcomes this challenge of developing a productivity app easy to use, requesting minimum attention from drivers but at the same time give them the ability to interact and keep their communications on time and everywhere.

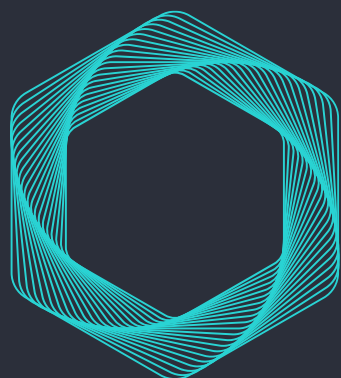
On mobile applications offline sync it's always a concern when users can preform actions over or with data/information. Since this application allows this type of interaction the app is capable to store its own status when detects the vehicle is offline and then sync data when its available again.

This application brings a new feature and experience as well to our knowledge base creating an app for AAOS using camera installed on vehicles.

# CA Seguros Automotive.

The main feature of this app is the possibility for searching the nearest CA Agency, taking into account the exact location of the vehicle, and requesting travel assistance through the car's dashboard.





**DXspark**®

Igniting Ideas

Let's partner.

**Lisboa**

R. Sousa Martins 10  
1050-2018 Lisboa

**Porto**

Edf. Trindade Domus  
R. do Alferes Malheiro 97, Piso 2  
4000-059 Porto



hello@dxspark.com  
[dxspark.com](https://dxspark.com)