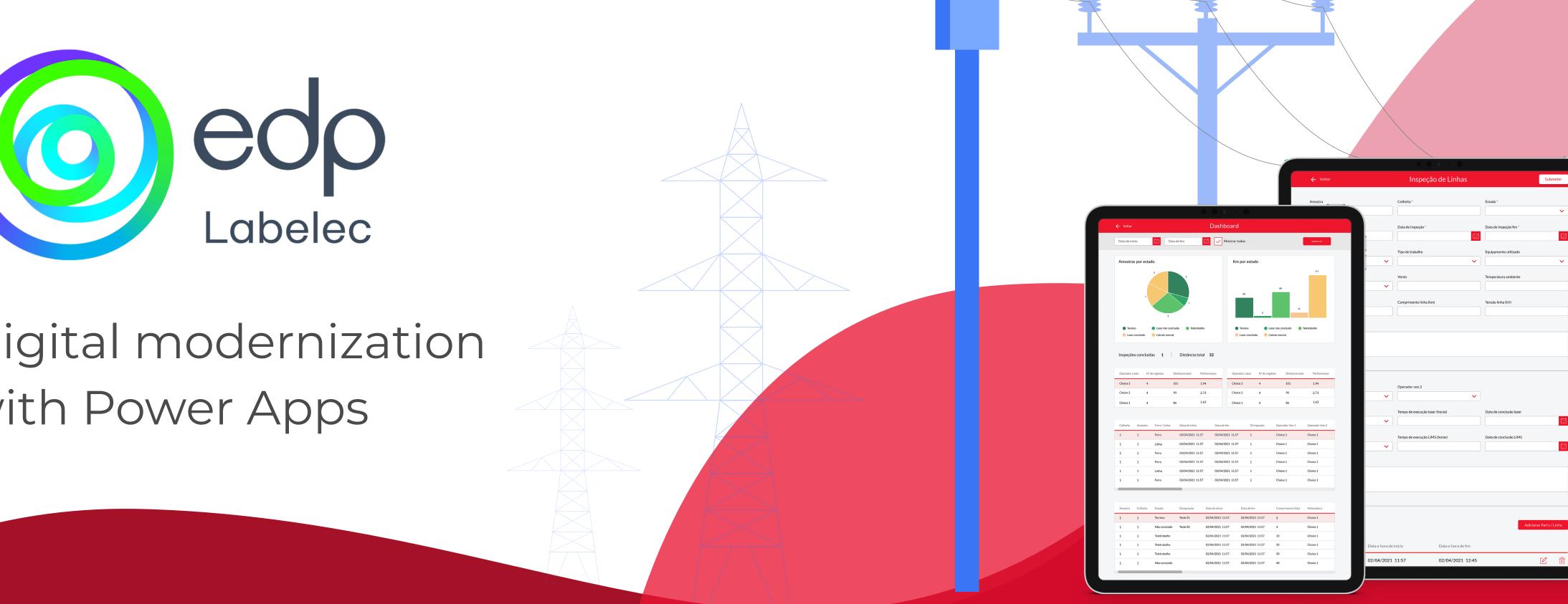


Digital modernization

with Power Apps





EDP Labelec provides specialised services, energy consultancy and supports the maintenance of electrical installations in the industrial sector.

The company is owned by the EDP Group and is its centre of technical excellence. It provides services to companies inside and outside the group, chiefly supporting the design and operation of installations and equipment, and systems quality control.

Its commitment is to provide, well and efficiently, technological services that ensure the effective function of infrastructures and technical equipment throughout the entire EDP group.

Challenge

This use of helicopters entails different logistical and economic concerns (the cost per hour of running a helicopter, for instance, is high), so the company wanted to make the entire inspection registration process more efficient.

EDP Labelec is responsible for inspecting power lines, an operation carried out using helicopters.

inspection from the helicopter. Once the inspection was completed, the employee would hand the form to a back-office team, who would then analyse and process the collected data before finally delivering it to the customer. Communication between inspectors and back-office teams suffered from some latency, as the latter had to wait for

This process was previously carried out manually; that is, an

employee filled in a paper form while making a visual

forms to be delivered by the inspectors to be able to process the data and collect different metrics.

And so, EDP Labelec wanted to digitise and make this process more productive, all the way from collecting the

since some of the team were working remotely.

This latency was felt more urgently during the pandemic,

data in the first instance through to the final delivery of that data to the customer.

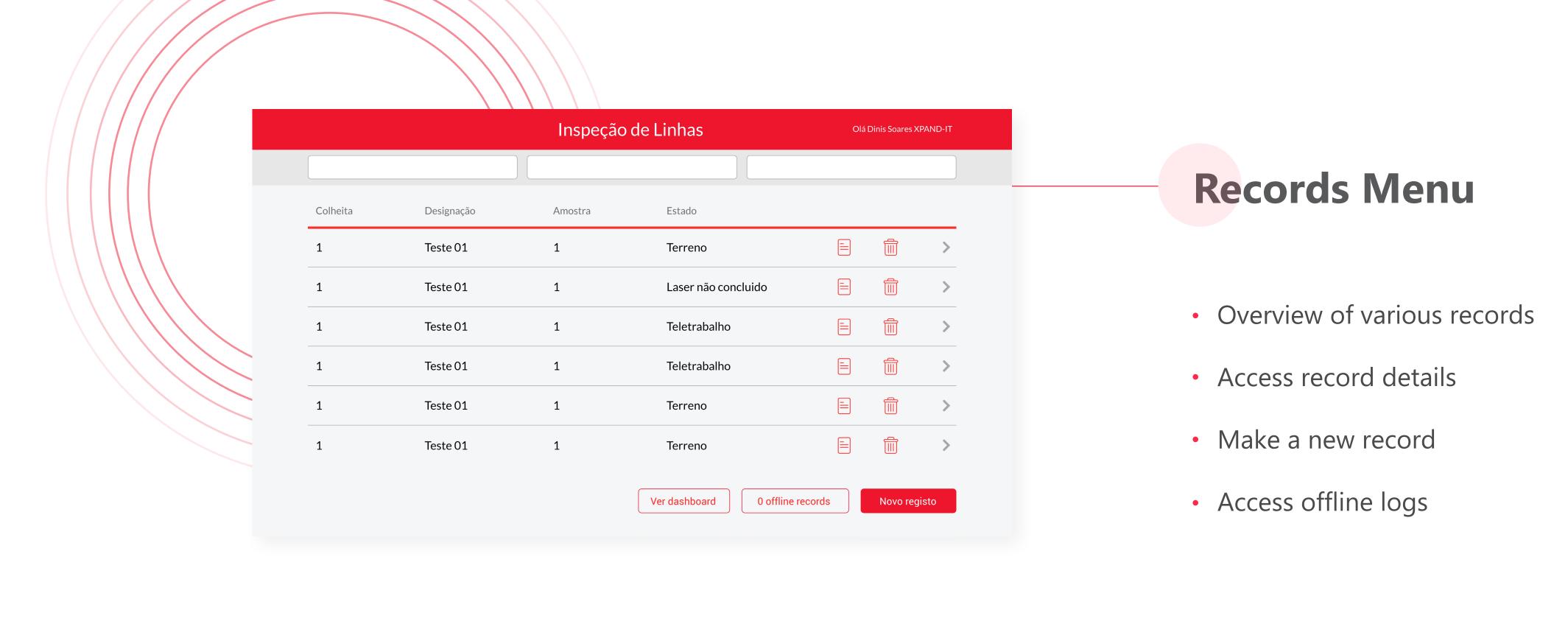
The Solution

application was given the goal of digitising and streamlining the entire line inspection process, making it more agile and efficient. During the flight, the inspector uses a tablet to access a form where they can fill in all the relevant data during the inspection. Since the

The Xpand IT team used Microsoft Power Apps to develop a tablet-optimised application. This

This way, users are guaranteed they will always be able to collect the data they need, regardless of connectivity status.

power lines are located in places that are not always covered by Internet access, it is crucial that the application works even without it.



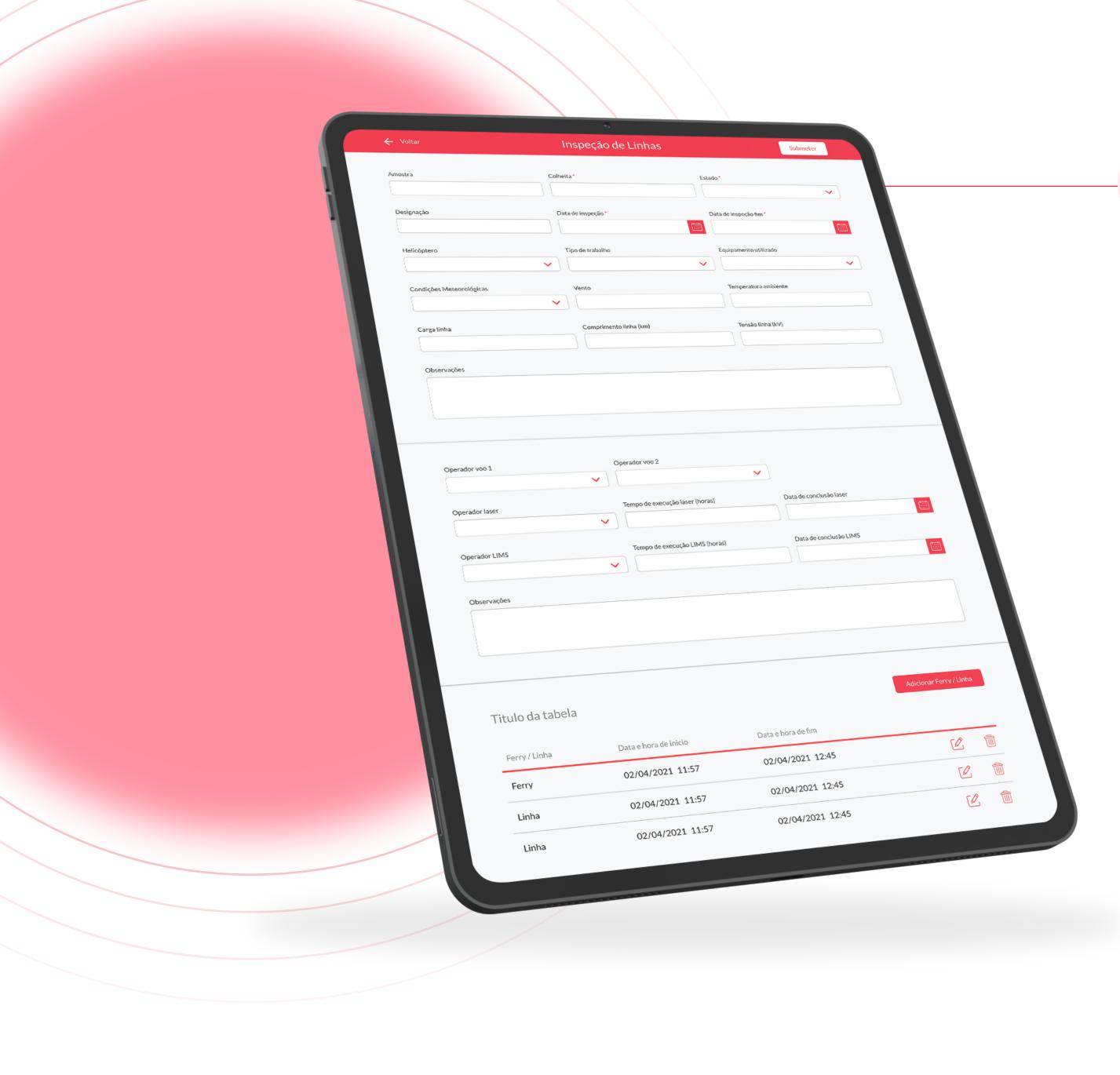
able to optimise them later. This visibility of different metrics, combined with the speed gained by the digitisation of the whole process, was a gain for the EDP Labelec team, which previously could not carry out such analyses. The result is an application that replaces a wholly manual and paper-dependent process and a digital solution that facilitates more

As soon as an Internet connection is possible again, the application processes all the data saved offline and automatically makes it

available for analysis by back-office teams. Additionally, it was necessary to add a Dashboard module to visualise different metrics of

interest, which could then be considered to improve the process itself. In this menu, teams can analyse, for example, flight times to be

efficient communication between the different teams involved.



Overview of various fields in form Access record change history

New Form Screen

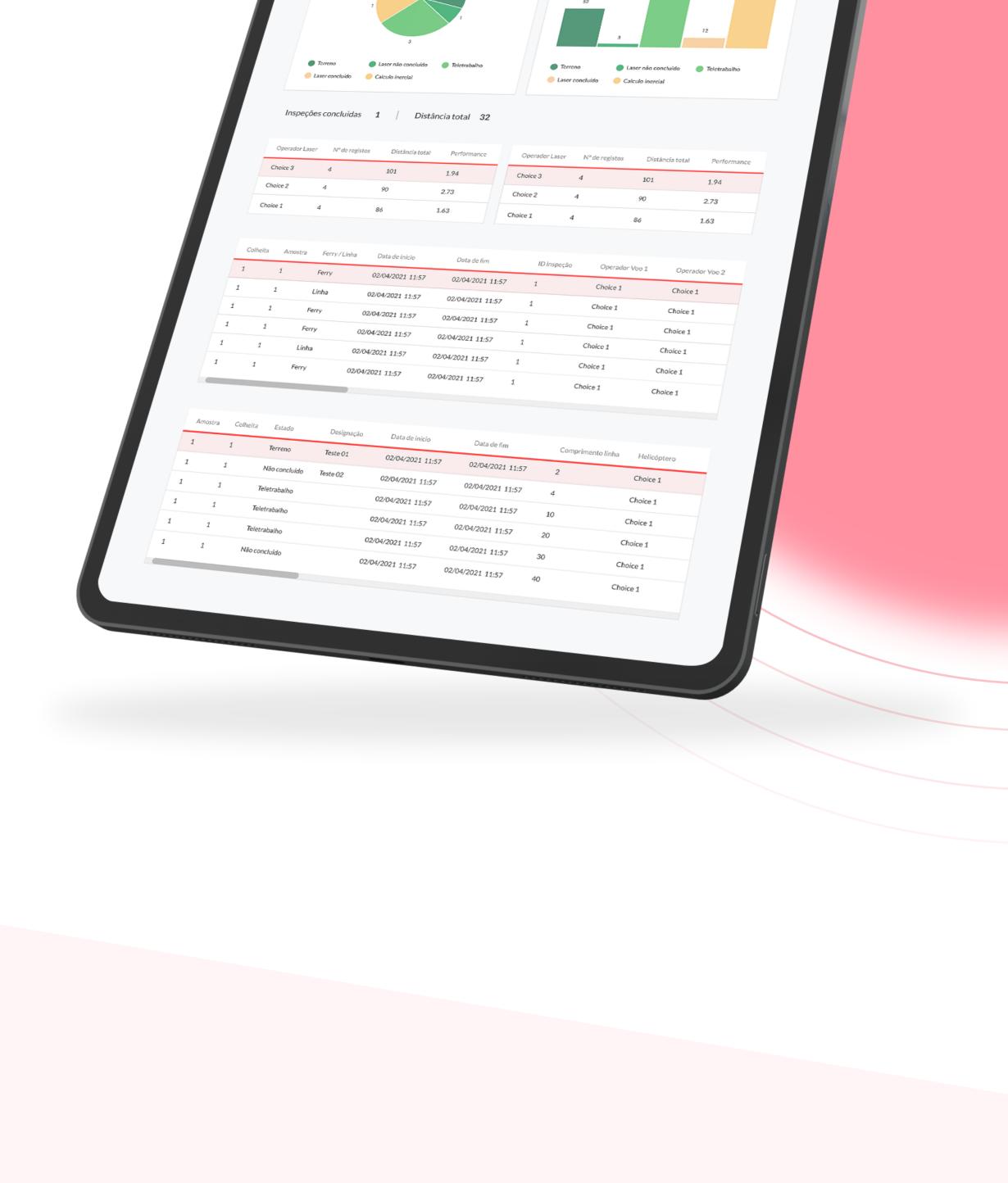
Open a new inspection form

See different graphics

Filter information by dates

Dashboard Screen

Access different metrics via menu



Dashboard

dependent on paper;

line inspection process;

Technology



Centralisation of all the information pertaining to the

The digitalisation of a process that was previously wholly

Power Apps

Ability to access the digital history of all inspections carried out via the app;

Microsoft Power Apps enables you to create multi-platform

scenarios faster and more efficiently by taking advantage of

Using the native integration with the Office suite, you can also

reduce time to market significantly for these applications while

applications. Companies can address different internal

guaranteeing their usability and performance.

the data;

this technology.

Faster, more efficient communication between inspection teams collecting the data and back-office teams processing

Accessibility of different metrics through the application.

Head of Asset Inspection Department

André Coelho





The development of this application allowed us to take a significant step in the digitalisation of our line inspection process, contributing

to increasing the efficiency of our operation and reducing our data analysis time. This type of project (Quick win), the tool used (Power

Apps), Xpand IT's development team, and the monitoring of the DGU team were fundamental to the success of this project.

HQ: Portugal







