

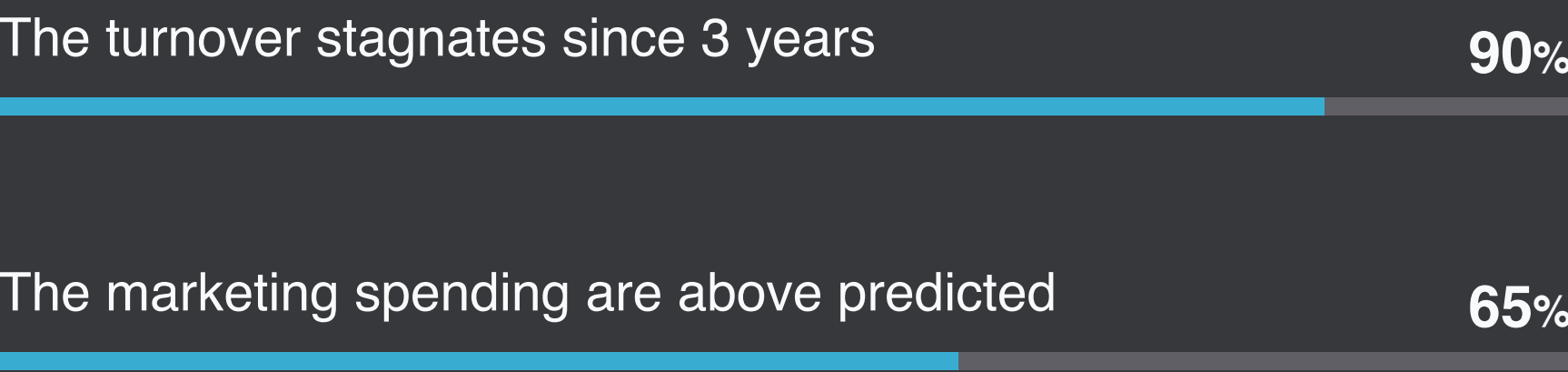
Solving business issues with data science.

***This is an example of a supporting
document presented to a managerial
panel.**

Find the related technical document here: essais.io

What are the business issues to be addressed with data science methods, and where should be our main focus?

Our two main issues are one: the **turnover stagnates since 3 years** and two the **marketing spending is above than predicted**. We should focus on the first issue that is more important but take the second into account.



What are the main causes?

Business Inside

How much does each cause contribute to the two main business issues?

Here we present the main causes that produce the two business issues we have seen above, and we rate how much these causes are relevant.



Lack of knowledge about the customers 90%

Lack of knowledge about the market 50%

The digital jump have been done very poorly 68%

High attrition rate 82%

Marketing uncontrolled spending 65%

Solving cause one.

How can we learn more about our customers?

We have done a customer analysis, segmentation, predictive scoring, survey and sentiment analysis. To recall this was the major contributor to the first issue we try to solve.



Solutions



Customer
Analysis / segmentation



Costumer
Predictive scoring



Costumer
Survey / Sentiment analysis

Results

01

Business Result
Customers have been segmented by recency, frequency and average order. We now can treat different customers differently.

02

Business Result
Customer’s satisfaction is on the rise. From 58% positive review to 65% in the last three months.

Solving cause two.

How can we gather more insights about the market?

We decided to lay out an interactive market analysis, a survey and to start a competitive intelligence activity. We have closely worked with the sales and marketing team to reach these results.



Solutions



Interactive
Market analysis



Survey



Competitive
Intelligence

Results

01

Business Result

The market trend is much clearer to the R&D, the marketing and the sale team.

02

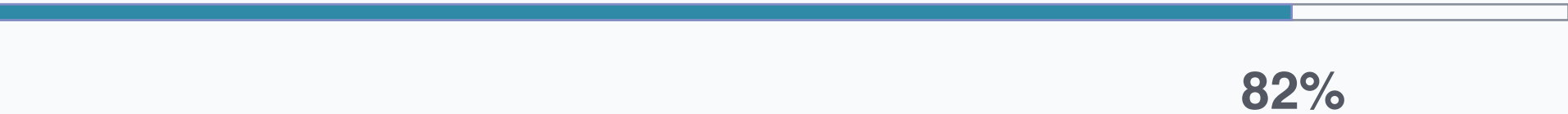
Business Result

Improved communication between the R&D, the marketing and the sale team, as they now share the same CI platform.

Solving causes three.
How can we retain employees?

We worked with the HR department to predict when a good or experienced employe will leave the firm.

High attrition rate



Solutions

HR analytics
Predictive modelling
Recommendation on career plan

Business result
The attrition rate when down by 10 points in the last three months.

Solving causes four. How can we better control the marketing spending?

With the marketing team, we built a monitoring dashboard and find new way to measure and forecast the marketing spending.

Solution one

Monitoring dashboard

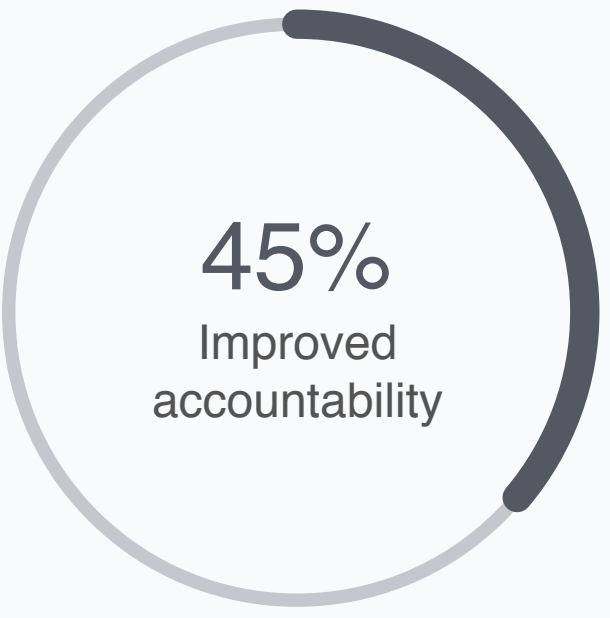
Solution two

New metrics definition

Marketing uncontrolled spending

65%

Business results

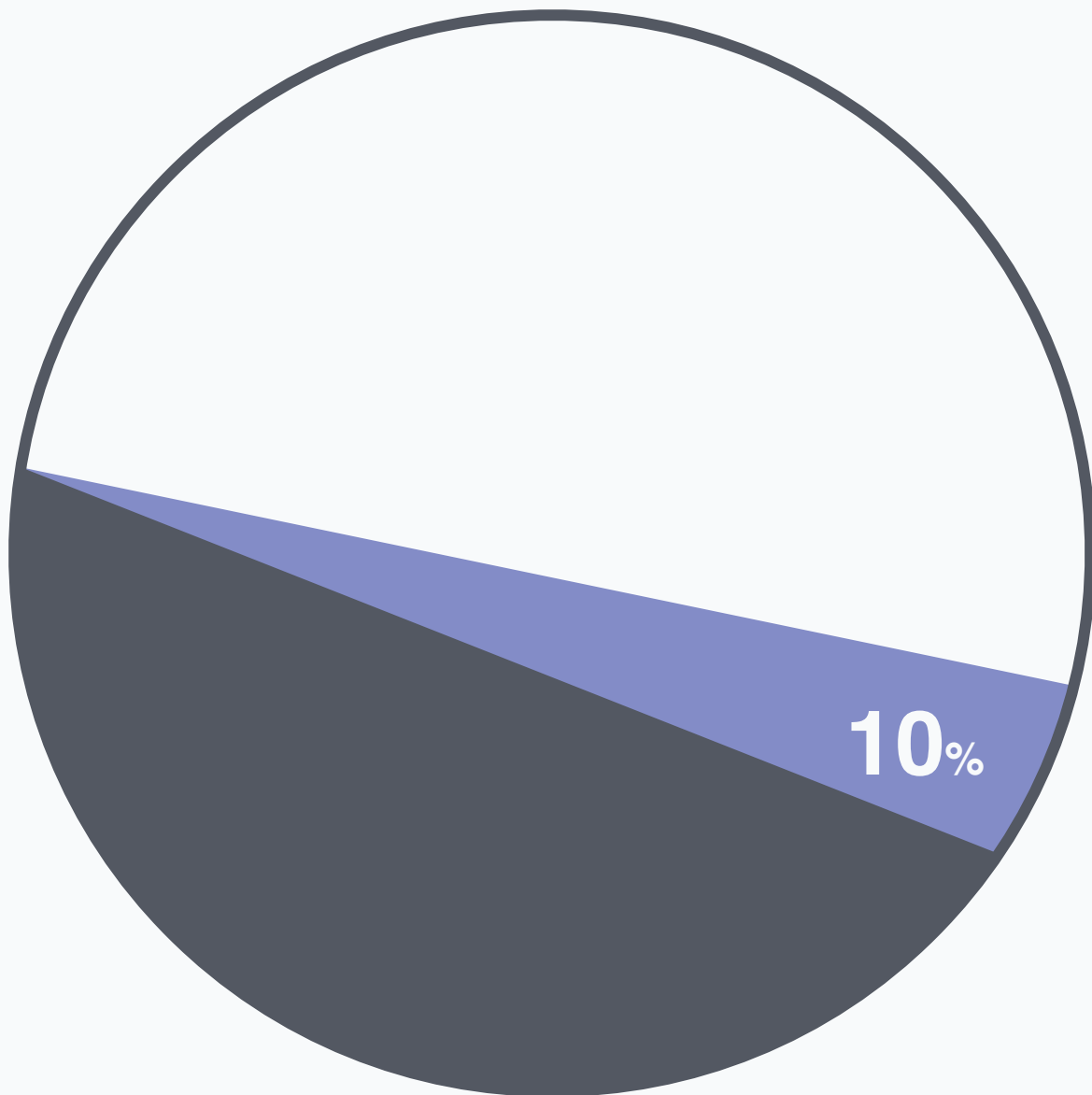


Solving cause five.

How can we improve the digital presence?

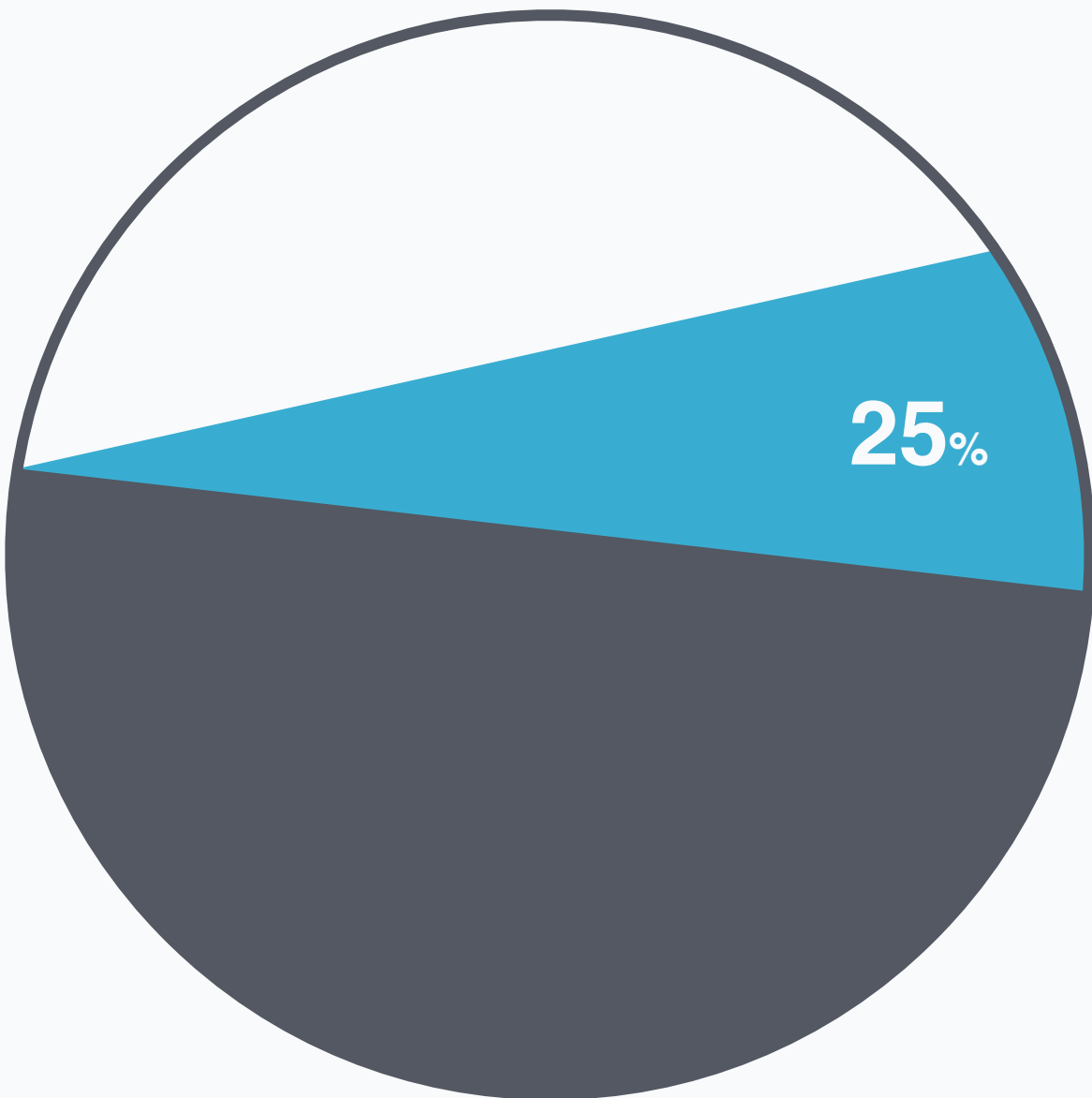
With a SEO analysis, A/B testing and a recommendation system we have seen a lot of improvement in the company's digital strategy. There is more visits, less bounces and a better conversion rate.

The digital jump have been done very poorly 68%



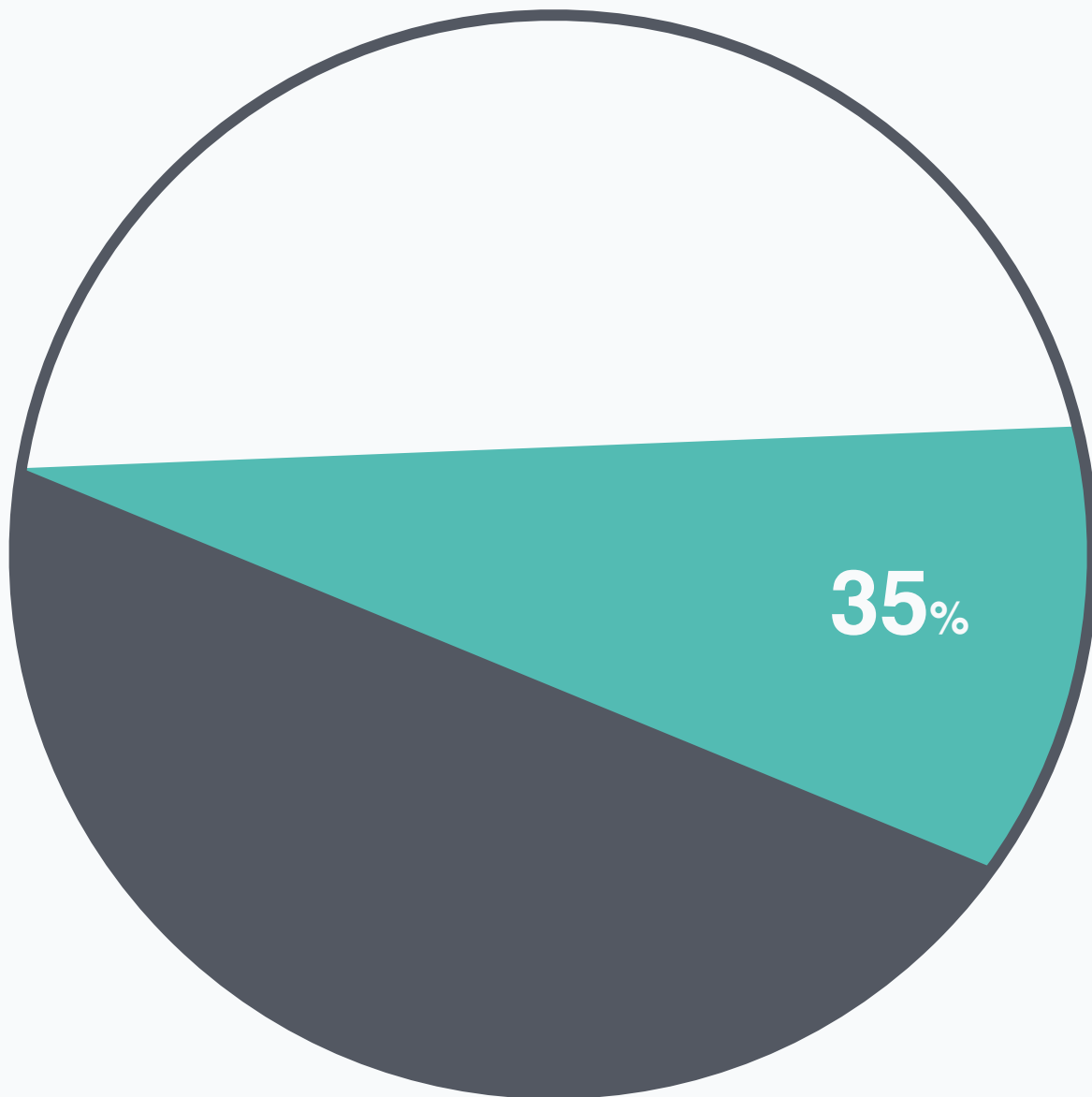
Recommendation System

The improved products recommendation has raised the average order by 10%



A/B testing

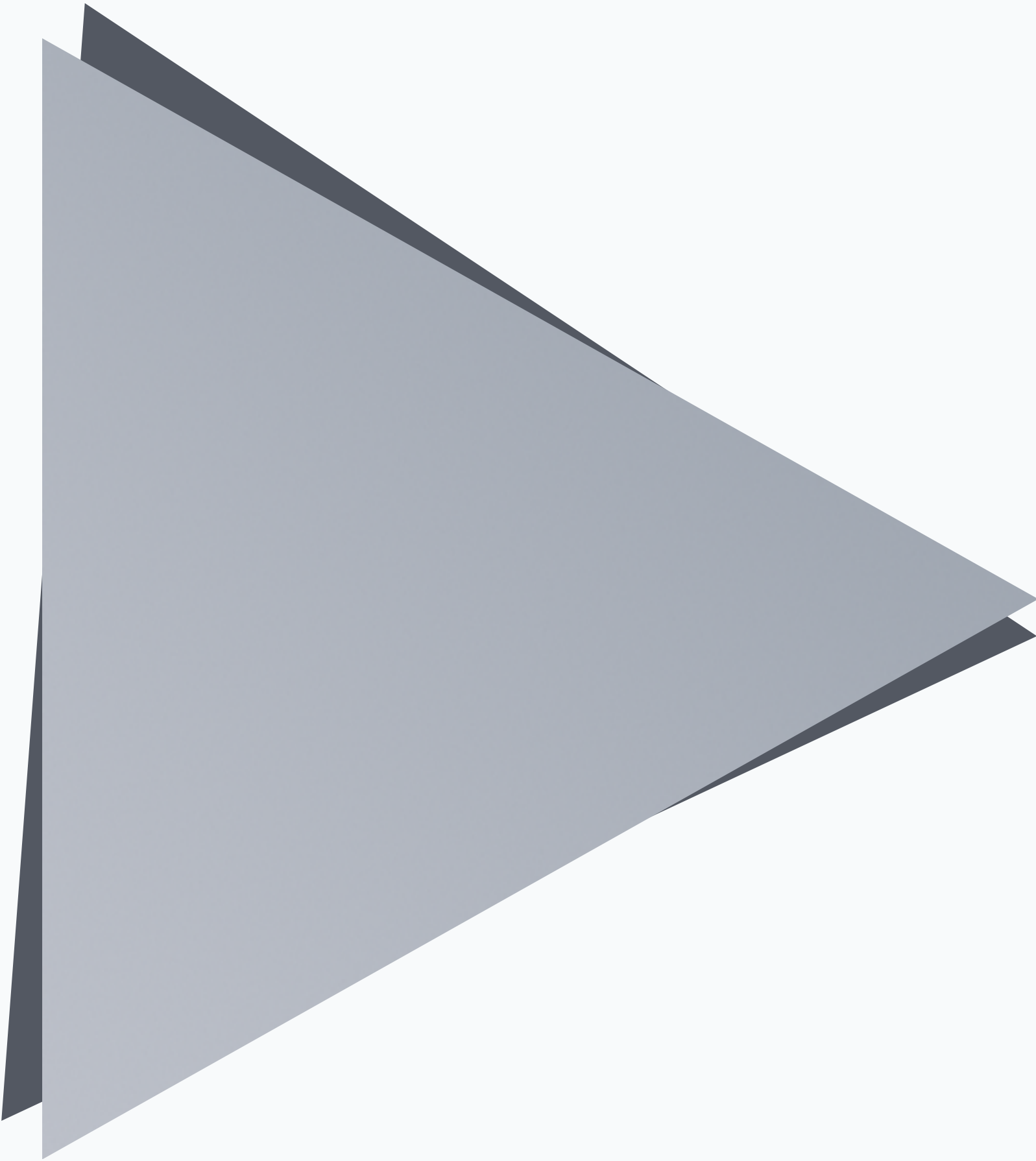
Improved landing page, newsletter and product presentation.



SEO Analysis

Increased the google rank by 35% in three months.

Global results



Business growth

After three years the business growth is back and we can see new opportunities.

+05%

Marketing spending

The marketing spending has been better controlled with the new dashboard.

-15%

Customer satisfaction

The customers say they are more satisfied than a year ago.

+12%

Attrition rate

Experienced employee choose to stay longer in the business.

-07%

What are the next steps?



Next step 01

Increasing the number of customers

Reducing customer attrition

Lead scoring

Optimizing marketing campaigns



Next step 02

Serving customers better

Cross-selling products

Optimising products and pricing

Increasing engagement



Next step 03

Serving customers more efficiently

Predicting demand

Automating tasks

Making enterprise apps predictive

Thank you

*This presentation is for a managerial audience. Find the technical information
about how it was done and programmed here essais.io