Challenge

decision-making"

A Software Development company

power of data and engages our employees in data-driven

An IT provider is expected to be digital by default. But it's impossible to become digital once and for all. The best thing you can do is to keep up with a rapidly changing world by constantly developing new solutions and improving the existing ones. Our customer's company was growing very fast (+30% annually) and their

Service Company (Software Engineering)

Power BI developers, DevOps engineers, QA engineers, Business Analyst, Software

Architect, Project Manager

methods of data management and analysis were getting outdated and were no longer meeting their needs. The heads of the company felt that they did not possess the entire information about the company's state which made the management and coordination more difficult. Such a situation could slow down the company's growth.

make qualitative decisions. The company's managers needed valuable insights on how the business was functioning, what was perfectly working, and what had to be improved. It meant quick access to real-time metrics about various aspects of the company's state and life. It included but was not limited to project metrics, engineering power (e.g. seniority levels, the number of the developers on projects, bench status if there was any), the company's money flow, various kinds of sales order statistics, etc. Our customer understood that Business Intelligence is not just about using technology to bring people and information together, it's about flexible

The management team was really fragmented in terms of understanding the current business state. Lack of up-to-date information entailed the inability to

experimentation at a rapid pace and fast decisions.

to get real-time information, which is 3 hours' old at most

Business Tasks

- meetings by cutting out the part dedicated to gathering the information from the employees and sharing it among them

to change the approach to holding

process

to speed up the decision-making

to be able to analyze the work of

the company's departments

Technical Tasks

to transform and place into one storage all the business information gathered from a variety of data sources the company was used to work



Jira Atlassian



Service Desk Atlassian

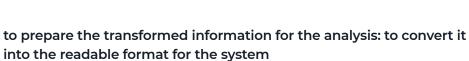
with. The sources were the following:



Confluence Atlassian



QuickBooks







Closeweek



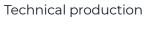
- to visualize data according to the rules defined by the requests of each particular dashboard and report
- to create dashboards with a variety of visualized reports of the working processes of the following business units:







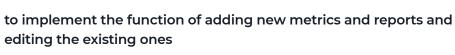
Finance





editing the existing ones

Sales & Marketing



Office Management

- to realize the function of reports generation on schedule with notifications to collaborate on and share customized dashboards and interactive
 - to keep data secure while giving user groups access to the insights they need

Using Power BI and cloud technologies, we've scaled them according to the customer's needs. The relevant data is collected from sources, such as Jira Atlassian, Service Desk Atlassian, Confluence Atlassian, HQuickBooks, Zoho Recruit, ZOHO CRM, Closeweek, Google Sheets. Some part of this data goes straight to datasets, the other - to Azure Data Lake Storage, where all the actions described by a particular model are performed. After that, the

Solution

information is presented in the dashboards. We've created 14 of them, which is not the final number, as, according to particular needs, the dashboards can be scaled up and down, grouped, and some derivatives can be added. Each dashboard represents an interactive analytical system and creates dozens of coherent reports with a variety of visualizations. Our solution unifies real-time data from many sources and provides interactive, immersive dashboards for all the departments of the company: Finance, HR, Recruiting, Sales Management, Project Management, Development Units, BackOffice. Employees can easily integrate data, transform it into rich visualizations and reports, and then share those reports with stakeholders.

Value

Key features

With this BI solution, individual employees have self-service access to

self-service for enterprise

Al integration for quick

insights finding

analytics

Azure cloud solution

software

Integration with in-house

intelligence that they can slice and dice in whatever ways are most helpful to them. They've also got an easy way to view and share their insights through interactive visualizations. It's become possible to automate a lot of the preparation and reporting.

The company got several levels of just-in-time analytics:

Project reports enable Project

managers to analyze different

of work on preparing data.

aspects of their projects and get

real-time metrics. This saves days

analysis to unit managers. This also saves 2-3 days of work per month and ensures data consistency and accuracy.

business in a quick and reliable way.

Production Unit reports provide live Top-level company reporting info on metrics, KPIs, and plan/fact provides thorough analytics for main company processes. This saves months of manual work and enables data collection and analysis in a weekly cycle.

We have provided the decision-makers with all the metrics they need -

the data to get the answers. The company's stakeholders, managers, and decision-makers have got an opportunity to evaluate the current state of their

gathered in one place - to do their job more efficiently and not have to wrangle

Benefits

Sales department:

Each Unit got their own benefits of BI introduction into business processes.

strengthen the Sales Team:

increase of conversion from this stage to the next sales step by 44%.

These measures allowed us to increase sales by 9,6% in the next 6 months.

Due to continuous visualization of the sales pipeline it was

defined that after the stage of "a clarification call", a pretty

It took two months to prepare a fully new and unique

methodology of "clarification calls" which brought the

big number of potential clients "go dark".

150 100

The real-time visualization of each sales manager's KPIs

for every manager. The following actions were taken to

ones in customly defined complicated spheres;

2/ special sales courses were offered to some managers.

allowed to identify weak points in the process of deal closing

1 / young sales managers were mentored by the experienced

Detailed project analytics enabled a lot of optimizations

of the project management practices resulting in ~4%

project profitability increase.



Human Resources department:

Alignment of financial statement reporting, statutory reporting, and managerial reporting allowed to find out that the specialist of a certain proficiency level brings almost 11% less profit then specialists of other proficiency levels. It was decided to increase the amount of hiring of those specialists who bring 11% more profit to the company, rather than those who do not.



PMO:

Office Management:

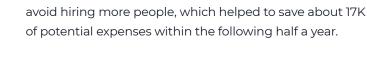
The continuous visibility of the department processes

allowed to redistribute the forces of the existing staff and

Finance department: Systematic keeping control on KPIs and the ability to

and decision-makers allowed to identify undesirable financial expenses. The improvements made to avoid the expenses helped the company to save 84K within the next 6 months.

deliver quick financial reports to stakeholders, managers,



of potential expenses within the following half a year.

Technologies

data models REST

Power BI

Python

SQL Server

- NoSQL database ETL (Extract, Transform and Load) JavaScript

OLAP