

Data Science Adoption

4-week Proof of Value

Most organizations usually set two goals, the first is related to generating new profits, and the second is related to cost and risk optimization. Modern Business Intelligence tools make them much easier to implement. Organizations are aware that launching a modern analytical platform and industrializing analyses and models are often a major challenge. A partner with experience in dozens of projects can play an important role in this process, which will effectively help to adopt advanced analytical solutions, showing rapidly measurable benefits.

The aim of the pilot project is to adopt advanced analytics to the specifics of the organization. As part of the project, we will show you the opportunity to create the right work environment for advanced analysts in your organization, colloquially called Data Science Sandbox. This environment is equipped with a set of tools supporting the work of advanced analysts, from the preparation of data, models, reports and ending with the industrialization of models.

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Gold Collaboration and Content

Gold Cloud Platform
Gold Datacenter
Gold Cloud Productivity
Gold Small and Midmarket Cloud Solutions
Gold Enterprise Mobility Management

Gold DevOps
Gold Security

About us

APN Promise has been creating technology market since 1991. We are ranked in top 500 most dynamic Polish enterprises.

We support customers and partners at every stage of their contact with technology – our group has more than 200 specialists, IT architects, developers and engineers.

We are first in Poland and second in Europe with Advanced Windows Server and SQL Server to Microsoft Azure Migration Specialization.

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What do we do during adoption?

We evaluate the chance to use data science in your organization.

- We find use cases and choose the one that is most promising for the customer.
- We evaluate data sources, their quality and integration processes.
- We assess competences and identify gaps.
- We transfer knowledge on the use of machine learning tools (Machine Learning):
 - familiarizing with the environment Azure Machine Learning,
 - familiarizing with the issues related to the preparation of data for analysis,
 - using of available econometric / machine learning models for a specific business area,
 - assessment of the quality of the models developed,
 - testing and implementation of models,
 - industrialization of models.
- We transfer knowledge about integration and automation processes:
 - familiarizing with the Azure Data Factory work environment,
 - data flows and their triggers,
 - automation.
- We run and configure Data Science Sandbox:
 - we run data warehouse and data integration processes (Azure Data Lake, Azure Data Factory),
 - we launch machine learning service (Azure Machine Learning).
- We prepare the selected model of advanced analysis (machine learning model).
- We visualize the results in the Power BI report.
- We present ways to industrialize the model, promising the highest return on investment.
- We present in the form of a workshop the results of adoption data science together with further development recommendations.

Pilot project products

- Knowledge transfer related to Data Science Sandbox.
- Configured Data Science Sandbox.
- A sample machine learning model.
- Visualization in the form of a report Power BI.
- Final data science adoption assessment report:
 - business case,
 - data science cycle,
 - vision of development,
 - environmental costs,
 - team competencies gap,
 - data science implementation plan.

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What do we need?

- Access to role holders:
 - key business user,
 - data analyst,
 - IT administrator.
- Access to Azure.
- Sample data.

APN Promise Team

- Senior Data Scientist.
- Data Platform Architect.
- Data Integration Specialist.
- Infrastructure and Security Specialist.
- Power BI, Power Apps and Power Automate Specialists.
- Project manager.

How long does the pilot data science adoption process take?

The pilot project for data science adoptions lasts 4 weeks.

How much does it cost?

The one-time fee for APN Promise Team services is on average EUR 13,300 net.

Estimated cost of Azure services

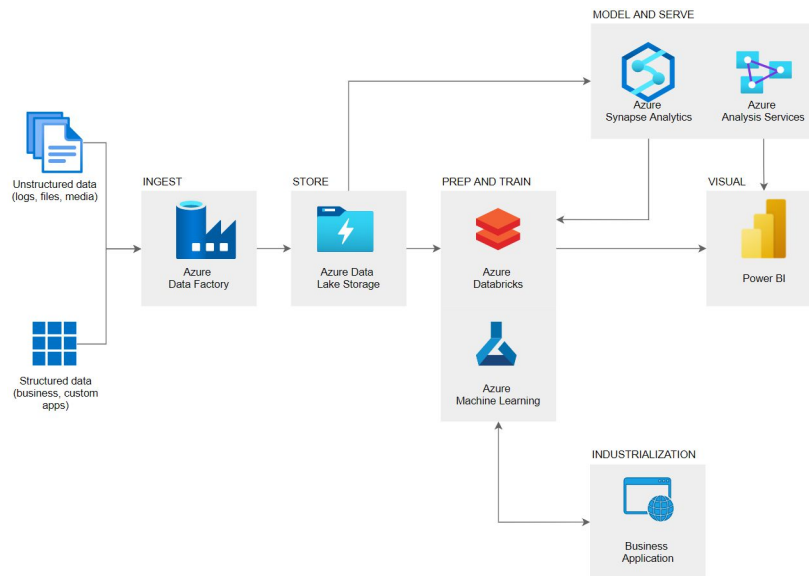
The cost of Azure depends on various factors, such as the number of users, the number of instances, the processing power, the volume of data. During the pilot project, we will show you how you can optimize the cost and what cost value can be expected during the production use of Data Science Sandbox. In our experience, Azure services could cost between EUR 1500 and EUR 2500 net during the pilot project. The Data Science Sandbox production environment can generate an average of 3500 – 7500 EUR net cost per month.

Data science use cases

- Sales forecast.
- Shopping cart analysis and customer behavior.
- Best offer, product, content recommendations.
- Price optimization.
- Optimizing inventory management.
- Recommendation to adjust the volume of sales forces to demand at the point of sale.
- Analysis of the economic efficiency of products on store shelves and categorization of products.
- Automate store shelf auditing based on photo analysis.
- Fraud detection.
- Deep data analysis and visualization of results and recommendations.

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Diagram:



Technology:

- Azure Data Factory
- Azure Data Lake Storage
- Azure Machine Learning
- Azure Databricks
- Azure Synapse Analytics
- Azure Analysis Services
- Microsoft Power BI

Why Azure?

Microsoft Azure is a modern cloud environment with unlimited scalability, massive performance, storage capacity, and security. With Azure, you can optimize IT costs while providing quick access to a variety of services.

Why now?

Most organizations operate in a competitive environment that can change rapidly. Accurate predicting the future and quick decision-making are often the key to business growth. Support for digital transformation through advanced analytics solutions can bring tangible business benefits in a short time.

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