

Business as Usual (BAU)

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Ensure the proper functioning of your
data-related business as usual processes



What you get:

- Maintenance of BAU processes related to data load, transformation and storage
- Correct and smooth execution of regular data feeds
- Efficient bug resolution and implementation of requested changes

As a result, you can:

- Improve performance and reliability of regular data feeds
- Have your data available in a timely manner
- Ensure your data is accurate and complete, even for edge cases

Benefits for your business:

- You have enhanced control over your data-related BAU processes.
- You benefit from increased efficiency of operations over time.
- You have the ability to improve the ETL/ELT (Extract, Transform, Load) process.

Tools and technologies:

- MS SQL
- My SQL
- Oracle
- T-SQL
- Python
- BML

Case study:

Maintaining legacy, on-premises solutions for a **Fortune 100** company before switching to AWS Cloud – [read more](#)



Consulting

Uncover the hidden potential of your data
with help from our data experts.



What you get:

The expert knowledge and end-to-end support of our experienced Data Consultants who will assist you with:

- making better, data-driven decisions
- your data strategy
- security risk analysis
- data lineage
- data requirement analysis
- cost/ROI assessment.

As a result, you can:

- Take advantage of your data in a whole new way, elevating your business
- Draw knowledge from the data, base your actions on facts, not assumptions
- Ensure your data strategy fits your needs
- Save time and money

Benefits for your business:

- You can run your business more consciously and efficiently
- You get cost optimisations and savings if you follow our recommendations
- You become aware of how to manage data to get benefits from your Data Warehouse

You should know:

- Our data consultants possess broad domain knowledge and specialise in multiple fields of expertise thanks to staying up to date with latest trends and numerous projects they participated in



Future Processing has provided us with **an optimal database for our BI system**. Even logical changes within the DWH are implemented quickly. A reprioritisation of tasks is possible at any time, even in running sprints.

With the help of Future Processing, we were able **to improve our sales performance**. The new automated data world improved the visibility of our sales activities and allowed us **to better manage our sales teams**. Reports run automatically, so we can support our customers more effectively and faster. We have become **more responsive to new customer requirements**.

Pascal Zielke

Group Director IT & Analytics, PACT COMMUNICATION GROUP

Client's opinion - www.future-processing.com/client/pact-communication-group/

Data Audit

Get a complex, end-to-end data audit with a detailed report and recommendations for your business.



What you get:

- A thorough audit of your current data solutions and a report resulting from the gathered information
- The analysis of your business needs and new recommendations regarding the possible improvements
- The audit's scope that is best suited for your organisation's reality

As a result, you can:

- Optimise your current systems or ETL / ELT processes
- Migrate to another solution much faster and easier
- Learn how to monetise your data that is not yet used
- Improve your Business Intelligence processes

Benefits for your business:

- You can understand and leverage your current system's potential better
- You get a tangible result – a detailed report about your current solutions and recommendations for improvements or further changes

You should know / Worth knowing about this service::

- Our audits are thorough and end-to-end as we work on data engineering, data science, Artificial Intelligence, Machine Learning areas of your business
- You can get an even more comprehensive service as we may take care of, for example, your product design or security if needed
- The audit may be followed by the development and implementation of the previously recommended solutions
- We work in the fixed price model

The way we do it:

The first stage is a discovery phase.

The next steps cover a technical audit and recommendations for improvements.

Identify needs > Analyse the current situation > Propose the right solutions

Possible audit areas:

- | | |
|---|--------------------------|
| ▪ How data is stored | ▪ Data consistency |
| ▪ How data is secured | ▪ How data is validated |
| ▪ How data is gathered and ingested | ▪ Structures |
| ▪ Data flows, ETL/ ELT processes | ▪ BI and reporting |
| ▪ Not used data / new data to be gathered | ▪ Migration to the Cloud |
| ▪ How to monetize data | ▪ Potential for AI/ML |
| ▪ Data business value | ▪ Other |

Data capturing

Maximise the value and usability of the data captured from new devices and ensure its quality and integrity



What you get:

- Help in correctly capturing data from different devices, for example cameras, meters, and smart devices (IoT)
- Preparation of captured data for further ingestion into a storage system for future use

As a result, you can:

Have data from new sources gathered and stored in a standardised, systematic and scalable way

Benefits for your business:

- You reduce the risk of incomplete data and have a more reliable and comprehensive dataset.
- You get an easy integration with existing systems and processes.
- You can leverage valuable insights from thorough data collection and use them for analysis, decision making and innovation.

You should know:

This service includes the design and implementation of initial load as well as incremental loads (e.g. a daily feed)

Tools and technologies:

- .net
- React
- Azure

Case study:

GridFlow by Future Processing - a unique solution created for TAURON Dystrybucja (the largest electricity distributor in Poland) - helping to ensure the safety of the electrical grid through high-quality data analytics. GridFlow was successfully deployed in Smart City Wrocław as the first milestone in the company-wide deployment.

440,000 AMI measurement point

35 mln daily readings

1 TB monthly data increase

1.1 bln readings per month

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“The system implemented for TAURON Dystrybucja will provide its users with easier access to processed and aggregate data from our AMI structure and with visual presentation of measurements and technical information on graphs and infrastructure maps. The data will enable our engineering teams to increase their efficiency and the safety of the infrastructure.

Thanks to this, GridFlow will help us meet the highest standards of electricity supply to our end users. It will also allow us to optimise our future investments and maintenance works on the network infrastructure. Additionally, GridFlow will support our engineers with identifying places suspected of illegal energy consumption, which will directly reduce our commercial losses by detecting and eliminating such events.”

TAURON Dystrybucja

Data ingestion and data integration

Get data from multiple sources into one storage and enjoy the benefits of using trustworthy data in an efficient way



What you get:

- Data ingestion – the collection and import of your data from different sources (e.g. from systems, devices, databases, excel or other files) including transformation into a suitable format
- Data integration - the merging of data from various sources and in different formats to create a consistent view of all your data

As a result, you can:

- Have your data loaded correctly, efficiently and on time
- Have all your data in one place
- Forget about unstructured data in multiple formats and trust the new clean data you have

Benefits for your business:

- You get improved data analysis and insights which turn to better business outcomes.
- You can scale your data processes and add new data sources or change your requirements without significant disruptions.
- With a centralised data management system, you benefit from streamlined operations and reduced manual work in data analysis and reporting.
- You get better trustworthiness, reliability and integrity of your data.

You should know:

This service includes the design and implementation of initial load as well as incremental loads (e.g. a daily feed)

Case study:

PACT's initial solution contained complex data that had to be extracted from Microsoft SQL Server, Excel and Salesforce, transformed accordingly to the clients' needs and, finally, shared to other applications like QlikSense reporting for data insights.



With the help of Future Processing, we were able to improve our sales performance. The new automated data world improved the visibility of our sales activities and allowed us to better manage our sales teams. Reports run automatically, so we can support our customers more effectively and faster. We have become more responsive to new customer requirements.

Pascal Zielke

Group Director IT & Analytics, PACT COMMUNICATION GROUP

Data migration and modernisation

Get data from multiple sources into one storage and enjoy the benefits of using trustworthy data in an efficient way



What you get:

- The process specifically tailored to your organisation's needs
- Our experienced specialists' knowledge based on multiple data migration projects successfully conducted with our Data Migration and Modernisation Framework
- Smooth and efficient data migration with predictable costs

As a result, you can:

- Significantly improve your data performance and compatibility
- Avoid any potential data loss after migration
- Use a more efficient and optimised solution
- Access your data anywhere thanks to the migration to the cloud

Benefits for your business:

- You are able to manage your data in a more effective and holistic way
- Thanks to data migration you gain operational efficiency
- You save time and money by using a more optimised solution in the cloud

You should know:

- There are several types of data migration processes
- Data is often migrated from on-premises storage into the cloud
- Using our proprietary Cloud & Data Migration and Modernisation Framework, we take a holistic approach that leads you through all the steps required to successfully and safely migrate your data
- Before starting the data migration process, we conduct a data audit to gather information regarding:
 - Types of files to migrate
 - Their size, number, and form
 - Data structure
 - Data sources
 - Target data storage
 - and more.
- While preparing the migration, we work on initial load, incremental load, data reconciliation, source to target mapping and many others

Case study:

Migrating production to a new warehouse :
<https://www.future-processing.com/client/pact-communication-group/>

PACT's initial solution contained complex data that had to be extracted from Microsoft SQL Server, Excel and Salesforce, transformed accordingly to the clients' needs and, finally, shared to other applications like QlikSense reporting for data insights. The collaboration of PACT's team with our experts resulted in successful data migration.

Tools and technologies:

- MS SQL Server
- Qlik Sense
- MySQL
- Python
- T-SQL
- ORACLE



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PACT COMMUNICATION GROUP**

Data storage / Data warehousing

Take advantage of your data and secure it by means of a highly scalable and highly available data storage solution.



What you get:

- A highly scalable and highly available, secure storage solution such as DWH – Data Warehouse
- The service tailored to your specific business needs, taking cost-effectiveness into consideration

As a result, you can:

- Leverage your data in a much easier way
- Realise your modern data storage scenarios
- Ensure your data is safe and all in one place

Benefits for your business:

- You can work on your data in an easily accessible and scalable storage environment
- You are able to leverage on your data and make better, data-driven decisions
- Your data is in one place, safe and highly available to everyone that needs it

The way we do it / Tools and technologies:

- MS SQL Server
- Qlick Sense
- MySQL

Case study:

PACT COMMUNICATION GROUP needed to upgrade and optimise their solution – data warehouses developed for their clients. We supported PACT in creating one Data Warehouse architecture and implementation from scratch with the possibility to integrate it with Qlik Sense and to apply flexible customisation options tailored to their clients' particular needs.

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The whole team works very professionally and all are communicative, flexible and very friendly. Our new DWH was ready for use within a few months. The loading times have been significantly improved. All systems have been logically linked in the DWH. New systems were also installed after the implementation of the DWH. Even hard processed data could be integrated into the DWH.

Pascal Zielke

Group Director IT & Analytics, PACT COMMUNICATION GROUP

Data transformation

Convert your raw data source into a clean, validated, and ready-to-use format.



What you get:

- Your data transformed from one format to another by means of ETL or ELT processes
- Data filtering
- Data aggregation
- Data indexing
- Data ordering
- Data transformation may also include:
 - Adding, copying, replicating data
 - Deleting fields and records
 - Standardising
 - Structural changes such as renaming, moving, and combining columns in a database

As a result, you can:

- Leverage your existing data in a consistent and ready-to-use format to boost your business capabilities
- Improve your reporting capabilities and draw more meaningful insights from data in a consistent format

Benefits for your business:

- Your data is well organised for further analysis and usage
- You get new reporting possibilities, otherwise impossible to obtain
- Your data has much better quality and reliability

Case study:

For our German client, PACT COMMUNICATION GROUP, our main responsibility was to create the whole ETL (extract, transfer, load) data flow process.



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Documentation

Get high quality documentation of your project's data flows, procedures, architecture, data models, and more.



What you get:

- High quality documentation, including text documents, flows, and diagrams in graphic forms
- Your project's architecture described in detail
- The best practices used regarding creation and updating of existing documents

As a result, you can:

- Optimise your processes and operations thanks to full documentation and references
- Prepare thoroughly for important changes within the organisation, such as Cloud migration
- Save time and costs thanks to smooth operations and detailed, high quality data gathered in one place

Benefits for your business:

- You can save time and costs significantly, thanks to the optimised processes and all data being accessible and ready to use whenever it is needed
- Any new investigation of issues within your project becomes smoother, easier, and faster
- You can shorten the time needed for new staff members' onboarding or for knowledge transfer

You should know:

- We work according to the Best Practices in Software Development and in Scrum / Agile methodologies
- We have experience in delivering high quality documentation in multiple projects
- The documentation may include, but is not limited to describing data flows, procedures, architecture, data models, and more

Optimisation

Optimise your existing solutions in terms of time and cost effectiveness, security, efficiency, and more.



What you get:

Optimisation services that can focus on all your processes and systems or just on particular parts of them.

As a result, you can:

- Save time and money thanks to, for example, automating the tasks that do not have to be done by a human being
- Reduce the risk of mistakes in your datasets and bugs in your systems
- Improve security and stability of your solutions
- Improve your data processing solidity

Benefits for your business:

- You will tackle challenges connected to your data availability
- Your processes and systems will become more effective and efficient while minimising the risk of new incidents and bugs
- Your ability to scale will increase as your company is growing



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TAURON Dystrybucja

Solution design and architecture

Design your new solution or re-design an existing one in order to optimise the processes and update your systems to the state-of-the-art technologies.



What you get:

- End-to-end approach to your solution's design and architecture, including:
 - Data flows
 - Data marts
 - Processes, ETL, ELT
 - Backups
 - DWH (Data Warehouse)
 - Automatisations
 - Data sets
 - Data ingestion / regular feeds
- An expert-level understanding of systems, system requirements and technology usage
- Advice on the best technology and solutions for your needs and business challenges

As a result, you can:

- Work with a consistent and up-to-date solution that best suits your long-term goals
- Reduce the costs of developing new software or expanding existing software without a proper plan

Benefits for your business:

- Your solution is consistent and up-to-date, designed with your particular needs in mind
- You can easily analyse and draw insightful conclusions from existing data
- You save time and money

The way we do it

- MS SQL
- Qlik Sense
- My SQL
- Scrum, Agile



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