

Next-generation data warehouses: make decisions driven by data

Make decisions quickly and correctly, as required by today's competitive environment accelerated by digitalization, whether in financial management, risk management, marketing, fault detection in a telecommunications network, production planning, inventory optimization, or customer relations management. The foundation of your high-quality decision-making is a next-generation data warehouse.

Our experience

We have been building data warehouses in Czechia and abroad for more than a quarter of a century, and we are still enjoying it. Data warehouses and related services are our pride and joy, which we are constantly developing and improving. There is no bank or telecommunications operator in Czechia

who does not know us or who does not work with us. In addition, many insurance companies, retail chains, manufacturers, pharmaceutical businesses and government organizations also rely on us.

What is a data warehouse?

A Data warehouse (DWH) is a strategic data platform for key analytical processes in all the departments within an organization. It contains integrated, consolidated, cleansed and, above all, historized data obtained from one or more data sources.

It is not just a huge database but a whole system of repositories, technologies, tools, processes and roles, including well-defined Data Governance. **The mission of a DWH is to extract informational value from these consolidated data structures in the form of statuses, trends, opportunities and risks.**

Independence from technologies and architectures



On-premise



Cloud



Hybrid



Managed Services (DWaaS)

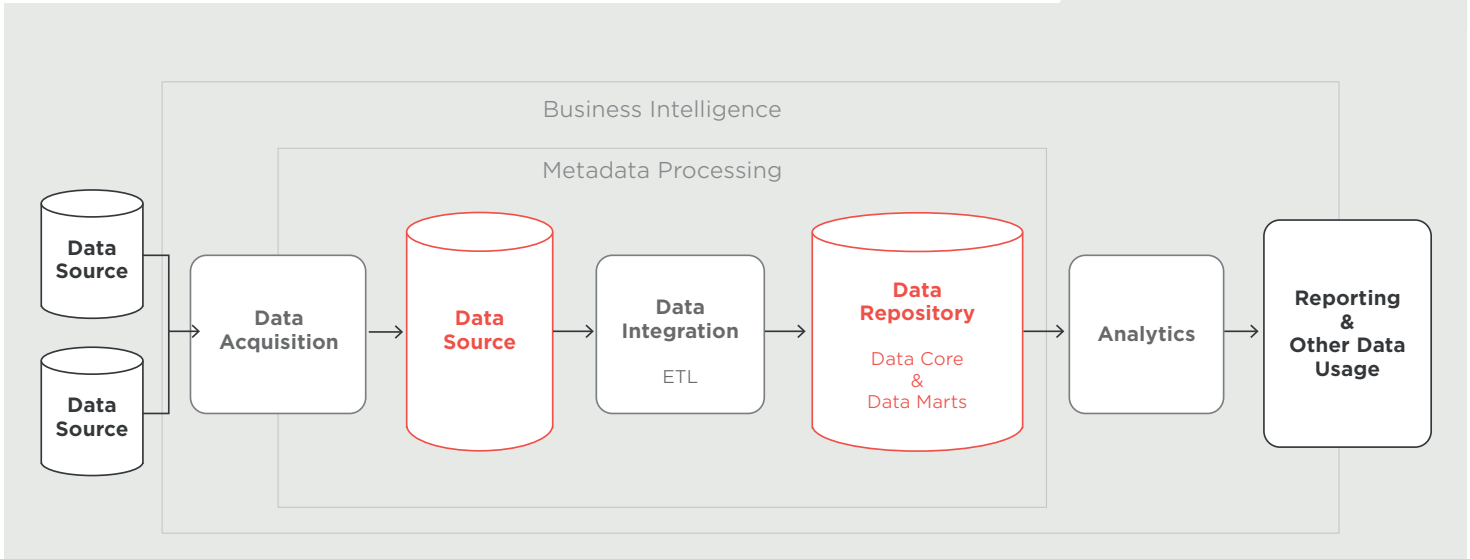
Adastra is an independent data-warehouse supplier. We build data warehouses using almost any requested technology, but the ones proven by practice or those with great potential for the future play first fiddle. We have created a number of reference architectures, a set of project accelerators, many code generators and other tools. **Our solutions are always open, extendable, and scalable. Good TCO (total cost of ownership) is a given.**

No Business Intelligence solution can be built without a data warehouse, nor can digital initiatives be

effectively coordinated and supported. **The foundations of a DWH are structured data, which can be supplemented with semi-structured and unstructured data.** Then we are talking about a so-called hybrid data warehouse (or standard DWH with a data lake). With a hybrid DWH, it does not matter whether it is storing numbers, texts, XML, JSON, images and photos, voice recordings, or something entirely different. Furthermore, **the data can be processed** at different frequencies as needed, for example, **in traditional batches, in near-real time, or in real time.**

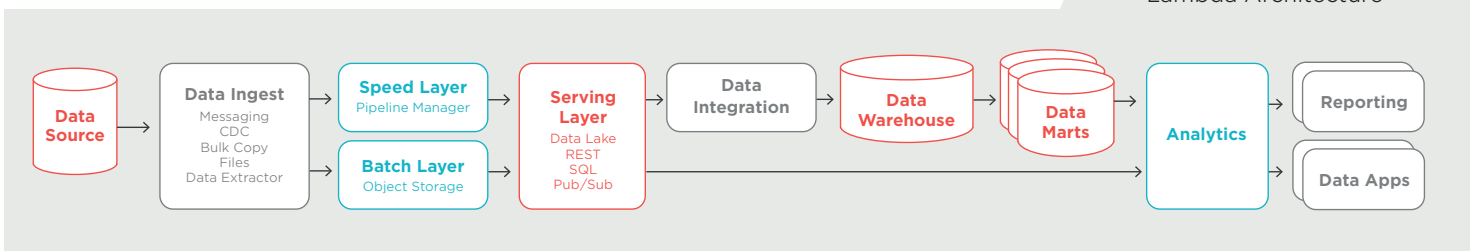
The traditional approach of a data warehouse

Hub-and-Spoke Architecture

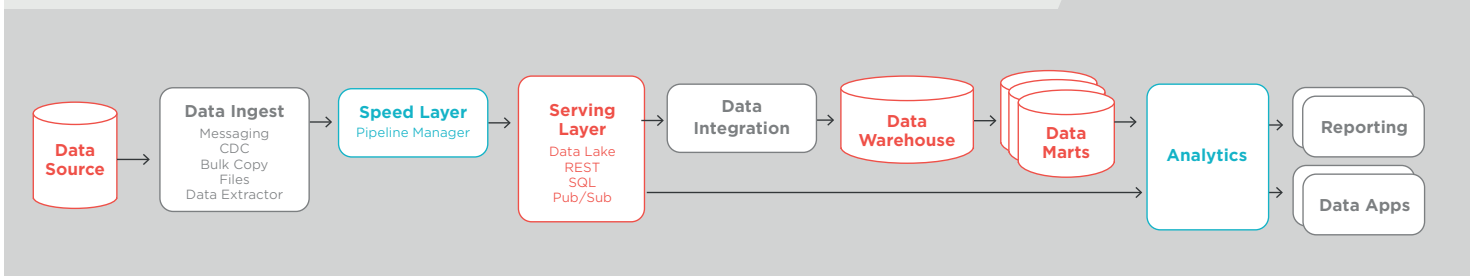


The modern approach of a data warehouse

Lambda Architecture



Kappa Architecture



The benefits that next-generation data warehouses from Adastra can offer your business

- / They facilitate **better and faster decision-making driven by data**
- / They provide **comprehensible information for various user groups** who will utilize it for different purposes
- / They enable **flexible reporting and analysis**
- / **Data analysts** as well as **business users and managers** can work with them
- / They allow you to make **much better use of your knowledge and experience**
- / They work with **predefined analytical scenarios**
- / They are built on or proceed from **the latest analytical trends**
- / They guarantee **comprehensive, all-in-one data management**

“Each of our data warehouses is the best available solution tailored to the customer’s needs and ensuring effective and efficient datanomics.”

Martin Bém

DWH Solution Architect, Adastra

Our services

Thanks to a wealth of experience from many projects, our portfolio of services related to data warehouses is extensive and unique in its breadth.

It includes:

- / **Data strategy** design and implementation for the entire organization
- / Maturity assessment of the current **data platform, Business Intelligence, processes, Data Governance** and other associated matters
- / **Data architecture** design according to the organization’s strategy
- / **DWH/BI roadmaps**
- / **Data platform** design and implementation **at the local level** or **at the corporate group level**
- / **Data mart** design and implementation
- / **KPI** design and implementation
- / **Data Governance**
- / **Metadata-Driven Development** and metadata management
- / **Data integration and data quality management**
- / **Data management outsourcing** (development and operation)
- / **Optimization** of existing **data platforms**
- / **Operational Data Store / Digital Integration Hub**
- / **Master Data Management and Reference Data Management**
- / **Data platform automation**
- / **DataOps**
- / **Big Data and Fast Data integration** into existing data ecosystems
- / **Migrating** data solutions **to the cloud**
- / **Advanced Analytics** including **AI and Machine Learning**
- / **Reporting, dashboarding, and self-service BI**