The Internet of Things: a data-driven perspective of the world around us

The Internet of Things (IoT) is a data source that allows us to gain a faster understanding of what is happening around us. By evaluating data from different sources, we are now able to manage various situations more effectively and in real time. Sensors are everywhere, for example, in manufacturing, logistics, and retail, as well as banking/financial services and insurance. Bet on IoT too, and support the growth of your business.

Our experience

Digitalization is yielding entirely new possibilities in terms of providing services and communicating with the customer. Using IoT scenarios, we are making branch operations more effective for leading financial institutions in the Czech Republic and Slovakia. In the retail industry, we are improving customer experience. In logistics, we are optimizing routes – we can determine the location of people and equipment and use augmented reality for navigation.

Selected IoT scenarios

Our IoT scenarios can be applied in many sectors. We are constantly monitoring trends and new technologies, and continuously expanding our portfolio of IoT scenarios. We also respond to our customers' requirements and are broadening our network of partners.

Store monitoring
/ Collecting information on visitor numbers and demographics, monitoring queues and analyzing the space
/ A complete overview of what is happening in stores

Improving customer experience in stores
/ Interactive displays that show advertising tailored to the customers
/ Identifying VIP customers
/ Humanoid robots
/ Interactive navigation through the store
/ Linking data from online and offline environments

Real-time identification and localization
/ Identification and localization using Artificial Intelligence, camera systems, or other sensor-based solutions (RFID, UWB, Wi-Fi, etc.)

Workplace safety and efficiency
/ Information in case of workplace safety breaches
/ Space and route optimization

Monitoring the state of the environment
/ Monitoring quantities, analyzing the data from various sources in a given environment, and evaluating it in real time
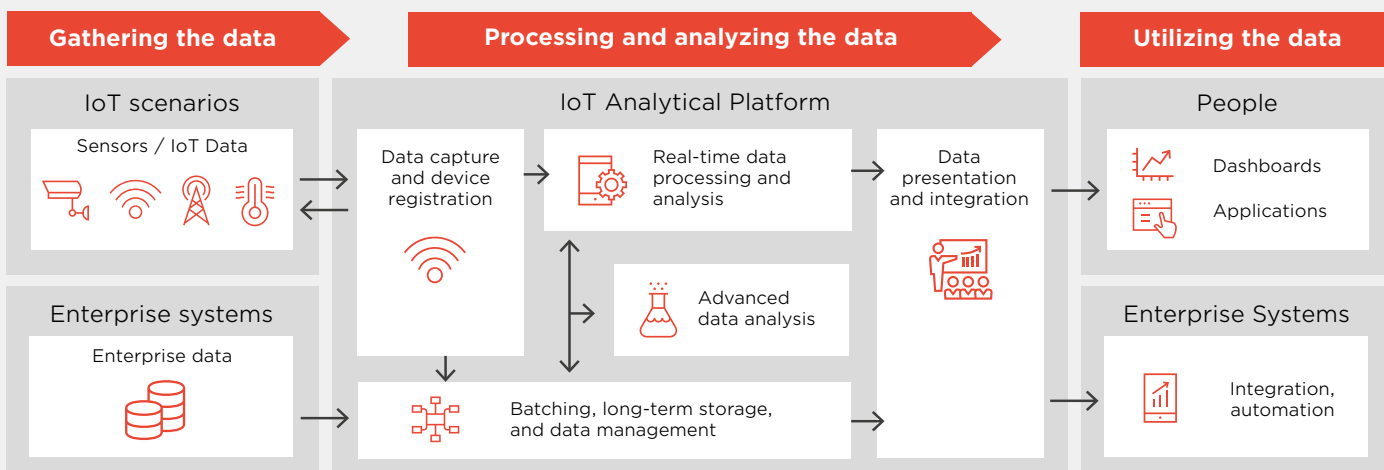
Sensor-based solutions
/ A wireless, sensor-based solution using devices with long-life batteries (emergency alarms, buttons, motion sensors, and many more)

Tailor-made scenarios
/ Every customer has their own specific requirements and goals, so our solutions are flexible

Adastra IoT Analytical Platform

IoT Analytical Platform by Adastra processes, consolidates, analyzes, and stores the data.

Gathering the data	Processing and analyzing the data	Utilizing the data

IoT scenarios

Sensors / IoT Data

Enterprise systems

Enterprise data

IoT Analytical Platform

Data capture and device registration

Real-time data processing and analysis

Data presentation and integration

Advanced data analysis

Batching, long-term storage, and data management

People

Dashboards

Applications

Enterprise Systems

Integration, automation

The platform is flexible, open, and scalable: it can be adjusted according to specific implementation requirements and can process data from any sources.

/ Data can be batched or processed continuously (near-real time).

/ The analytics platform can incorporate data from operating systems as well as other sources.

/ Storage can be chosen according to data size and character, so the performance and the price of the platform can be optimized.

/ For advanced analysis, tools are available for data mining, machine learning, and cognitive intelligence.

Our services

/ Do you want to try out an IoT scenario to see how it works, what data you get and what they can do for you?

/ Do you need advice on choosing a solution or with a project?

/ Do you want to make sure that your strategy is in line with modern trends?

/ Are you looking for a reliable supplier for the implementation?

/ Do you have specific requirements?

/ We will prepare a customized offer and together we will find the best solution for you.

Workshops and seminars

Consulting services

Prototype/pilot realization

Implementing IoT solutions

ADASTRA

www.adastra.cz