

BUSINESS AREAS

IoT

IoT philosophy is based on performing the communication of physical objects with each other or with larger systems. This philosophy is that one device can connect to another, send data, stop it, or run it.

With the implementation of the IoT philosophy, there was a revolution in the industry called "4.0". Studies such as fully automated production and process systems, data security and data analysis have become popular.

Adatech, with its expert staff on IoT, acts with you to meet all your needs during the digitization process of your business.

INDUSTRY 4.0

Industry 4.0 is based on machines and systems communicating with each other. Each component communicates with other components, analyzes the data and notifies the person when necessary.

Machines or systems communicate with each other wirelessly via sensors. While all this is happening, the system runs at less cost, produces faster and loses very little. The systems are smaller in size than older systems and produce under the control of advanced safety equipment.

It is possible to examine Industry 4.0 under three main headings: Internet of Things (IoT), internet of services, cyber-physical systems.



Internet of Things

Refers to the wireless communication of machines with each other. These machines can also be called robots. Each robot has its own communication addresses called ip. In this way, machines communicate with each other very quickly and keep up with the changing production strategy. Decision-making and implementation processes are quite short. Data analysis is delivered to all units in milliseas seconds.

Internet of Services

It refers to the new service areas that will emerge. It includes the people who will provide services over the Internet, the people who will receive the services, the software that will ensure the relationship between them, and the services themselves. Services such as email services and cloud system enter here.

Cyber-Physical Systems

It is the general name of the systems that are processed through self-managed sensors as a copy of the virtual world. Cybersecurity strategies are used to protect systems.

Advanced backup software is used to prevent consistency and losses of existing data. Thanks to these backup software, strategies can be created in many fields such as production, investment, planning, etc. for the future using artificial intelligence.

Adatech, with its expert staff, is on your side from planning to commissioning the industry 4.0 transformation process of your business.

Our Specialties

- *Autonomous robots,*
- *Additive production,*
- *Simulation technologies,*
- *System integration,*
- *Cloud computing,*
- *Internet of Things (IoT),*
- *Cybersecurity,*
- *Augmented Reality.*

CYBERSECURITY

Our focus is on developing and implementing strategies to protect machines, systems, networks and programs from digital attacks.

Attacks are often carried out to access, modify, destroy sensitive information, gain financial gain from users, or disrupt normal business processes. In order for the systems to operate sustainably, it is imperative that they are protected from these attacks.

What is the Topic of Cybersecurity?

A successful cybersecurity approach has multiple layers of protection that span computers, networks, programs, or data it wants to keep safe. In an organization, people, processes, and technology must complement each other to build an effective defense against cyberattacks. Process information is crucial for individuals and individuals to use the computer security tools needed to protect them from cyberattacks.

The three main entities must be preserved

1. **Computers**
2. **Smart devices**
3. **Endpoint devices (routers)**
 - *Networks*
 - *Cloud*

Common technology used to protect these assets includes next-generation firewalls, DNS filtering, malware protection, antivirus software, and email security solutions.

AdeTech is with you in the establishment, operation and training processes of the necessary infrastructure to protect your data with its experienced staff trained in this field.

Our Specialties

- *Network security,*
- *Application security,*
- *Information security,*
- *Operational security,*
- *Extraordinary information recovery and job security,*
- *End-user training.*



DIGITAL TRANSFORMATION

In short, digital transformation is the integration of every operation that can be digitized in a business model or business into digital technologies. As software continues to change the world at a rapid pace, the managerial and operational processes of companies are severely affected by this change. With software with digital technology and hardware, you divide the process into atomic levels, store and operate it electronically.

You can perform CRUD (creating, reading, updating, deleting) and control and analyze these pieces of information with a much stronger computational power than the human brain. On these machines, you can automate quite a large number of tasks or jobs, so that processes can be made more unmanned, error-aware, and much more scalable.

Our Specialties

- *IoT platforms – Industrial Internet,*
- *Sensors and Automation,*
- *Horizontal & Vertical integration: digitized value chain,*
- *Industrial cybersecurity,*
- *Layered printer,*
- *Digital twins and intelligent systems,*
- *Big data analytics and AI applications,*
- *Predictive and predictive maintenance,*
- *Augmented reality apps,*
- *Cloud computing,*
- *Mobile apps.*



DATABASE ANALYSIS

In general, the database is a regular collection of structured information or data stored electronically on the computer system. These collections are controlled through programs called DBMS. When data and DBMS, as well as the applications associated with them, are combined, they are often referred to only as a database system that is shortened to a database.

Data of the most common types of databases used in the operation today is often modeled in rows and columns in a series of tables to make processing and data querying efficient. This makes data easily accessible, manageable, interchangeable, updateable, controllable and organized.

Most databases use query language (SQL) that is configured for data writing and querying. Being able to access data losslessly should be optimized after designing the database for the purposes of protecting data repetition, ensuring data consistency, etc. This optimization process may vary depending on user scenario, need, and relationships.

Atech is at your side in the processes necessary to ensure the optimization and consistency of your data with its experienced expert staff.

Major Tests

- *Ki square test,*
- *ANOVA,*
- *Kappa test,*
- *Odds,*
- *Ratio,*
- *Cholera analysis,*
- *ANCOVA,*
- *MANOVA,*
- *MANCOVA,*
- *McNemar Test,*
- *Fisher exact Test,*
- *Kolmogorov – Smirnov Test,*
- *Binominal Test,*
- *Mann –Whitney U Test,*
- *Friedman Test,*
- *Post- hoc Test,*
- *Kruskal Wallis Test,*
- *Wilcoxon Test.*

