PERIOD
ANNUAL REPORT

01.01.2023 - 30.06.2023
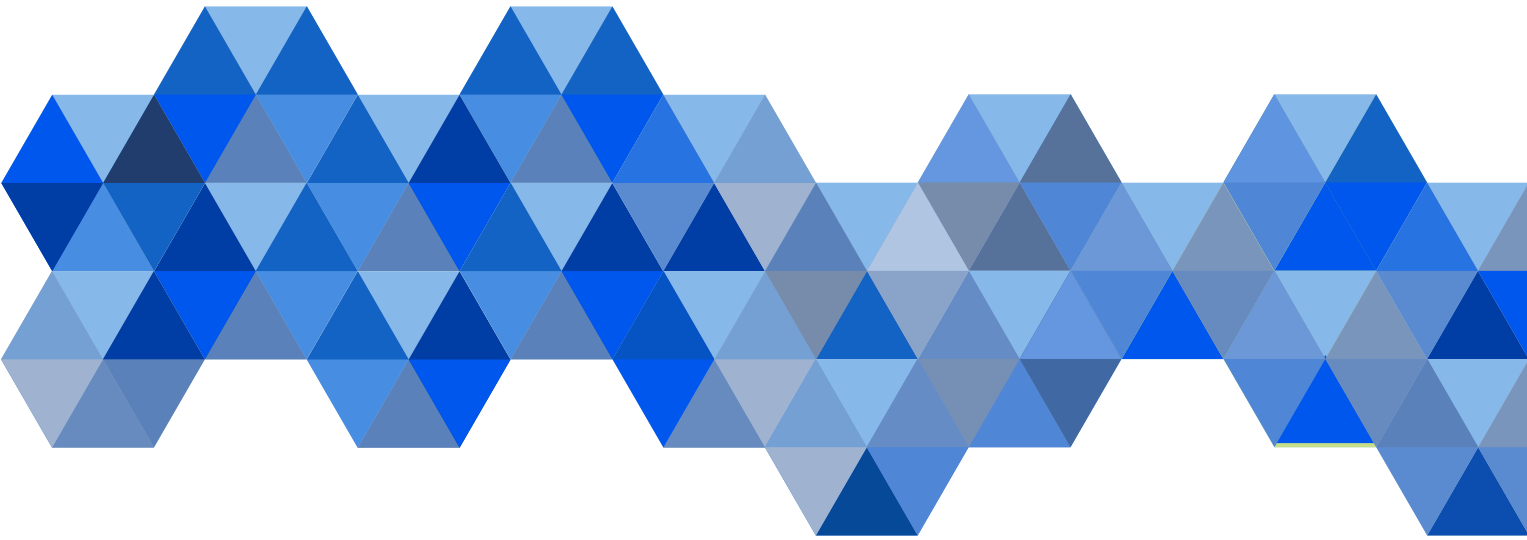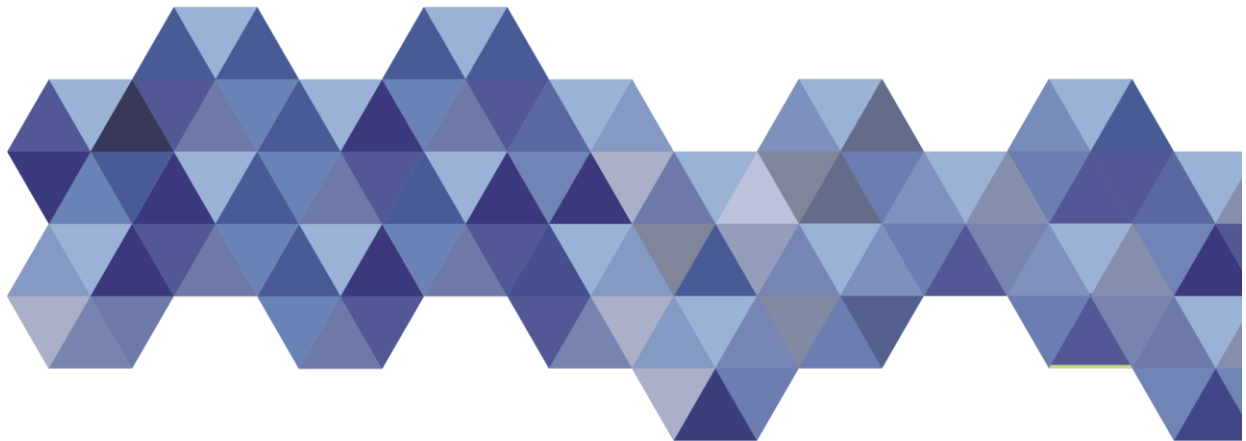
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www.**miateknoloji**.com

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1.   MESSAGE FROM THE CHARPERSON OF THE BOARD

Dear Employees, Esteemed Business Partners and Stakeholders,

As MİA Teknoloji A.Ş., we care about following trends and digital transformation.

Considering the experiences we have gained based on the previous years, we have achieved and will continue to achieve important works both nationwide and abroad thanks to the management processes and business development activities carried out in various fields. In this direction, we are progressing by creating our own added value and adding a new ones to the works we have completed every other day.

Together with our experienced team, MİA Technology, which takes action by adopting the understanding of going further and further day by day, is making great progress in creating a sustainable technology approach. In this context, in addition to the software we are currently developing, we are taking steps to spread a more universal understanding of technology by incorporating new generation immersive technologies into our vision of providing products and services.

With the public offering we have carried out, we aim to make various innovations and developments in our business fields. It will be our main goal to proceed with stronger and confident steps and to produce value-added projects for our country and nation.

We would like to thank all our employees, business partners and shareholders who contributed to the growth and development of MİA Technology. With the innovative content we will realize for the future, we will approach the events with a different perspective and continue our progress by increasing our pace.

Best regards,

Ali Gökhan BELTEKİN
Chairperson of the Board

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2.   GENERAL INFORMATION

2.1 Reporting Period

This report relates to the period 01.01.2023-30.06.2023.

2.2 Information Related to the Partnership

MİA TEKNOLOJİ A.Ş.	
Year of Establishment	2006-ANKARA
Registered Capital Limit	150.000.000 TL
Paid in/Issued Capital	38.000.000 TL
Tax Office and Taxpayer ID	Ankara Corporate Tax Office / 621 061 1649
Trade Register Number	225945
Head Office Contact Information	Gazi Ünv. Gölbaşı Yerleşkesi Bahçelievler Mah. 323/1 Cadde B Blok N10/50-B/03 Gölbaşı Ankara TÜRKİYE
Phone Number	+90 312 444 4 642
E-Mail Adress	info@miateknoloji.com
Website	https://www.miateknoloji.com
Subject of Activity	Computer programming activities (coding customer specific software and softwares such as system, databases, network, web page etc.)
Trading Market	BIST Stars

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2.3 Board of Directors, Company Executives and Employee Information

The members of the Board of Directors were appointed as a result of the extraordinary general assembly meeting held on 11.08.2021.

First and Last name	Title	Term of Office
Ali Gökhan BELTEKİN	Chairperson of the Board of Directors	21.10.2020 – 21.10.2023
Mehmet Cengiz BAĞMANCI	Member of the Board of Directors	21.10.2020 – 21.10.2023
İhsan ÜNAL	Member of the Board of Directors	21.10.2020 – 21.10.2023
Özgür ÇİVİ	Independent Member of the Board	11.08.2021 – 21.10.2023
Ali YAZICI	Independent Member of the Board	11.08.2021 – 21.10.2023

2.3.1 Members of the Board of Directors and Their Resumes

Ali Gökhan BELTEKİN - Chairperson of the Board (Founder and Shareholder)

Born in Elazığ on July 25, 1982. Completed secondary and high school education in Elazığ and higher education in Atılım University, Computer Engineering Department. After completing university education, he started working as a Software Specialist at Yüce Bilgi Sistemleri Company in 2004. In 2006, he founded his own company, MİA Teknoloji A.Ş., together with his undergraduate friends.

MIA Technology, which has been operating in the IT sector for 15 years, develops products for public spaces where transition security is critical with its unique innovation and R&D activities to meet the needs of its customers with its increasing experience.

In accordance with its Smart Campus studies, he conducted effective projects in Türkiye and abroad with its R&D studies in the process of providing domestic and national solutions to the General Directorate of Security, Student Selection and Placement Center, Credit and Dormitories Agency, Istanbul Atatürk Airport, Ziraat Bank, Vakıfbank, Eti Maden, Ministry of Interior, University Hospitals, State Supply Office, Havelsan, Gendarmerie, National Library, for differentiating requests and needs within its wide product range and original products.

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In line with the new and unavoidable realities of the information era, it maintains its solution partner identity and mission of producing information projects specified for company needs throughout the Pandemic (Covid 19) process. He has been carrying out Pandemic Product Family Works for Cleanmask-Tech, MİA-YTA Thermal Camera and Mask Detection, MİA-Hygiene Tunnel.

He has been contributing to the development of Türkiye in the field of informatics with studies developed in the fields of IOT, Smart and Secure Facility Management Systems, Image Processing Technologies, Biometric Person Identification Technologies, Deep Learning, and Artificial Intelligence Technologies. In addition to R&D activities, business development activities on an international scale and the works carried out for Germany, America, Italy, England, France and Russia, an office has been opened in Qatar and Teknopark, forming the first international branch of MİA Technology.

In addition to his business life, he also takes part in Atılım University Industry Advisory Board and supports Industry-Academic Cooperation. He is married and has two children.

İhsan ÜNAL - Board Member (Founder and Shareholder)

Born on January 8, 1981 in Şanlıurfa. Completed secondary and high school education in Şanlıurfa and higher education in Atılım University, Computer Engineering Department. After completing university education, he started to work as a Software Specialist on the Social Security Board in 2004. In 2006, he founded his own company, MİA Teknoloji A.Ş., with his undergraduate friends.

As the first example of the studies carried out with the aim of "providing solutions for the requests and needs that differ with our domestic and national solutions, wide product range and original products", which the managers have adopted a mission since the day it was founded, it started to operate with the "Dormitory Management Software" for the Türkiye-wide dormitories of the Credit Dormitories Institution. He worked as a Coordinator in the project where 20 Zones, 494 dormitory campuses, 2720 Clients, 4800 optical readers and 4 million transactions were carried out in order to ensure entry and exit tracking to KYK dormitories and to use rights.

Operating in the IT sector for 15 years, Mia Technology provides services in the fields of Integrated Health Information Management System, Biometric Identity, Recognition and Control Systems, Smart and Safe Facility, Building and Campus Solutions, Public Security, Critical Zone and Soft Target Protection, e-Identity Projects, Payment, Card Solutions and Fintech, Data Analysis and Big Data Management, Cyber Security for public institutions.

In MİA Technology, which is one of the leading companies in Türkiye and the International Information Sector, the management of all administrative processes in the process of producing national and international certified technologies with the vision of competing with the players of foreign market and producing innovative solutions with high added value with the Industry-Academy Cooperation model ensures the successful execution of the projects by ensuring the management of quality standards and budget planning from the tender processes of the projects.

In addition to his business life, he also takes part in Atılım University Industry Advisory Board and supports Industry-Academic Cooperation. He is married, and has one child.

Mehmet Cengiz BAĞMANCI - Board Member (Founder and Shareholder)

Born on May 4, 1979 in Şanlıurfa. Completed secondary and high school education in Şanlıurfa and higher education in Atılım University, Computer Engineering Department. After completing university education, he worked as a Software Specialist in private companies in 2004. In 2006, he founded his own company, MİA Teknoloji A.Ş., with his undergraduate friends.

In line with the Smart Campus studies, he conducted effective projects in the process of providing domestic and national solutions to the General Directorate of Security, Student Selection and Placement Center, Credit and Dormitories Agency, Istanbul Atatürk Airport, Ziraat Bank, Vakıfbank, Eti Maden, Ministry of Interior, University Hospitals, State Supply Office, Havelsan, Gendarmerie, National Library, for differentiating requests and needs within its wide product range and original products.

Together with the software team, he worked as the Project Manager in the process of completing the integration works in the KYK E-Yurt Biometric Control Project, Ziraatbank Biometric Safe Room Project, ÖSYM Smart Campus Project, BEOGS E-Gate Project, Pizzy Project, Face-Id Facial Recognition Project, Hospital Information Management Systems-HBYS projects, He has been continuing his work during the pandemic process with the software team working on the Pandemic Product Families of Cleanmask-Tech, MİA-YTA Thermal Camera and Mask Detection, MİA-Hygiene Tunnel.

In addition to his business life, he also takes part in Atılım University Industry Advisory Board and supports Industry-Academic Cooperation.

Özgür ÇİVİ - Board Member

Born in Ankara on 20.06.1981, Özgür ÇİVİ is married and has one child. Graduated from Atılım University, Department of Business Administration in 2004, completed master's degree in Health Management at Hacettepe University.

Starting his career in 2006 as an assistant auditor at MAZARS Denge Ankara Denetim ve Yeminli Mali Müşavirlik A.Ş., he worked in the Accounting Unit of Koçak Group of Companies in 2006-2007.

Özgür ÇİVİ started to work in the sales field as of 2007; and employed as Sales Manager between 2007-2011 in İncekara Holding and between 2011-2014 Kurt & Kurt İth. İhr. ve Müm. A.Ş. He served as Senior Customer Manager at Türk Philips Ticaret A.Ş. between 2014-2016; then he served as Operations and Purchasing Director at Qatar Turkish Hospital in Doha between 2017-2018.

In 2018, in the Gaziantep Integrated Health Campus project, which was carried out in partnership with Kayı- Webuild SpA J.V., assuming the position of General Manager in charge of Medical Affairs, ÇİVİ still holds this title. He undertakes responsibilities such as developing strategies in order to achieve the short and long term objectives in the project, managing product purchases in line with his experiences regarding medical product qualifications and managing all processes within the scope of medical operation.

Özgür ÇİVİ started to act as Independent Board Member at MİA Teknoloji A.Ş. in 2021.

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ALİ YAZICI - Board Member

Born in Ankara on 14.05.1950. Ali Yazıcı, graduated from the Department of Numerical Analysis and Applied Mathematics of Middle East Technical University in 1972, completed his master's degree in Mathematics at METU in 1974. Continuing his education in Canada, Yazıcı completed his PhD in Computer Science at the University of Waterloo.

Performing researches in areas such as big data analysis, database management, data structures and programming languages, web-based distance education, scientific information processing, Yazıcı is an expert in SQL and ORACLE database systems, web design, C, HTML, Java, PHP, XML and Python.

Ali Yazıcı, who served as a faculty member at METU between 1979-1983, then became a faculty member at Yarmouk University in Jordan and Sultan Qaboos University in Oman. In 1988, he received the title of associate professor at METU and returned as a faculty member at the Department of Computer Engineering. Having been a professor since 1994, Yazıcı worked at METU, Atılım and TOBB universities, respectively.

Today, he is a faculty member in Atılım University Software Engineering Department. Ali Yazıcı has worked in numerous projects for more than 45 years at the academy and has been merited with several awards such as the WALL awarded by IBM and the first prize with the "Lifelong Learning and Non-Formal Education" project in the Education and Research Association.

Ali YAZICI began serving as Independent Board Member at MİA Teknoloji A.Ş. in 2021.

2.3.2 Members of the Board of Directors, Authority and Limitation of Senior Executives

The Chairperson of the Board of Directors, members and senior executives of the company exercise their authorities specified in the relevant articles of the Turkish Commercial Code and the Company's Articles of Association.

2.3.3 Board Committees

In order to comply with the "Corporate Governance Communiqué" published by the Capital Markets Board, the committees were re-established with the Board of Directors Decision dated 25.04.2023 and numbered 2023/19.

Audit Committee

The Audit Committee supervises the accounting system of the company, disclosure of financial information to the public, independent audit and the operation and effectiveness of the company's internal control and internal audit system. The selection of the independent audit institution, the initiation of the independent audit process by preparing independent audit contracts and the work of the independent audit company at every stage are carried out under the supervision of the committee responsible for the audit. The committee responsible for the audit convenes at least four times a year, at least once every three months, and the meeting results are recorded in the minutes and submitted to the Board of Directors. Decisions taken in committee meetings are signed and archived by the members of the committee after they are made in writing. The Audit Committee informs the Board of

Directors in writing of the findings and suggestions it has reached in relation to its duties and responsibilities.

NAME SURNAME	POSITION	INDEPENDENCE STATUS
Özgür ÇİVİ	Chair of Audit Committee	Independent Member
Ali YAZICI	Member	Independent Member

Early Risk Detection Committee

The purpose of the Committee is to make suggestions and recommendations to the Board of Directors on the identification, definition, prioritization, monitoring and review of strategic, financial, and operational risks and opportunities that may affect the activities of the Company; management of these risks and opportunities that may be exposed in parallel with the company risk profile and taking into account in reporting decision mechanisms. Committee meetings are held at least 3 times a year and decisions are taken unanimously by the attendees. Decisions taken in committee meetings are signed and archived by the members of the committee after they are made in writing.

NAME SURNAME	POSITION	INDEPENDENCE STATUS
Özgür ÇİVİ	Chair of Early Riskt Detection Committee	Independent Member
Ali YAZICI	Member	Independent Member
Mehmet Cengiz BAĞMANCI	Member	Non-Independent Member

Corporate Management Committee

The corporate governance committee determines whether the corporate governance principles are applied in the company, the justification if not applied, and the conflicts of interest that occur due to not fully complying with these principles, and makes recommendations to the board of directors to improve corporate governance practices and monitors the work of the investor relations department. The Committee also assumes the duties of the Nomination Committee and the Remuneration Committee, which are included in the regulations of the Capital Markets Board. In principle, the committee convenes three times a year and, if deemed necessary, without waiting for this period, and

takes decisions unanimously. The decisions taken in the meetings are made in writing, signed and archived by the members of the Committee.

NAME SURNAME	POSITION	INDEPENDENCE STATUS
Özgür ÇİVİ	Chair of Corporate Management Committee	Independent Member
Ali YAZICI	Member	Independent Member
Mehmet Cengiz BAĞMANCI	Member	Non-Independent Member
İlker ATİKMEN	Member	Investor Relations Manager

Internal Information Access List

NAME SURNAME	POSITION
Ali Gökhan BELTEKİN	CHAİRPERSON OF THE BOARD OF DIRECTORS
İhsan ÜNAL	DEPUTY CHAIRPERSON OF BOARD OF DIRECTORS
Mehmet Cengiz BAĞMANCI	MEMBER OF THE BOARD OF DIRECTORS
Ali YAZICI	INDEPENDENT BOARD MEMBER
Özgür ÇİVİ	INDEPENDENT BOARD MEMBER
Arzu ŞAHDALAMAN GÜL	FINANCIAL ADVISOR
Ali Osman EFLATUN	CAP AUDITOR

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Elif ÖZDEMİR	TENDER AND CONTRACT SPECIALIST
İlker ATİKMEN	INVESTOR RELATIONS MANAGER

2.3.4 Number of Meetings of the Board of Directors during the Term and Participation of Members

Our Company's Board of Directors held 27 (twenty-seven) meetings within the period of 01.01.2023-30.06.2023.

The meeting of the Board of Directors was held with the attendance of all our members.

2.3.5 Assignments Executed Outside the Company by the Members and Directors of the Board of Directors

The assignments of the members of the board and executives of the company outside the company are

provided below.

First and Last name	Company Title	Position	Shareholder Rate (%)
Ali Gökhan Beltekin (Representing Mia Teknoloji A.Ş.)	Tripy Mobility Teknoloji A.Ş.	Chairperson of the Board of Directors	100

2.3.6 Changes Made to the Articles of Association during the Period 203

Not available.

2.3.7 Information Related to the Personnel

The number of personnel working as of 30.06.2023 is 124.

2.4. Capital of the Company, Shareholding Structure and Privileged Shares

2.4.1 Capital

The registered capital limit of our company is 750.000.000 TL and the issued capital is 38.000.000 TL.

2.4.2 Shareholding Structure

Shareholders	Share Rate (%)
Ali Gökhan BELTEKİN	22.8157
İhsan ÜNAL	22,1447
Mehmet Cengiz BAĞMANCI	12,1710
OTHER	42,8686
Total	**100**

2.4.3 Privileged Shares

A) Privileged Share Amount: 5.000.000,00-TL

B) Statement on the Voting Rights of Privileged Shares: Group A privileged shareholders have 5 voting rights for each share.

2.5 Direct or Indirect Subsidiaries of the Company and Share Ratios

The information regarding the subsidiary included in the group and included in the consolidation in 2022-2023 is as follows;

Affiliate Name	Share Rate (%)	Field of Activity
Tripy Mobility Teknoloji A.Ş.	100	Micromobility

Tripy Mobility Teknoloji A.Ş. ("Tripy") was established on October 5, 2022 and its main field of activity is in the field of micromobility. Tripy is an "Electric vehicle sharing platform" that is sustainable and has set out to meet the last mileage needs of users. Established as a 100% subsidiary of MİA Teknoloji, Tripy provides users with electric bicycle rental for the first time in its fleet. Thus, it is the first private company in Türkiye to operate an electric bicycle. The difficulty and cost of accessing energy in recent years has led people to use electric vehicles. Tripy aims to increase the range of electric vehicles rented in its fleet with an environmentalist approach that will reduce traffic congestion and allow people to use vehicles when they need them. Tripy, which has an electric vehicle charging station operating license, is expanding its fields of activity to expand and facilitate the use of electric vehicles. Tripy is currently running an electric bike sharing service in Eskisehir and is negotiating to operate it in other cities.

The legal headquarters of Tripy is Bahçelievler Mah. 323/1 Cad. C Blok Gazi Üniversitesi Teknokent Binası No:10/50c İç Kapı No:101 Gölbaşı / Ankara.

As of 31 December 2022, the Company's paid-in capital is TL 10.000.000.

Affiliate Name	Share Rate (%)	Field of Activity
Enerjey Enerji A.Ş.	70	Renewable Energy

Enerjey Enerji A.Ş. was established as announced in the Turkish Trade Registry Gazette dated 26 April 2023 and numbered 10819 in partnership with MİA Teknoloji A.Ş. to operate in the field of energy and make investments in this field. The main field of activity of the Company is to provide turnkey engineering, procurement, construction and operation & maintenance services in the field of energy, as well as providing software solutions with artificial intelligence in the renewable energy sector. The main capital of the Company is 1.000.000 TL.

Enerjey's legal address is Bahçelievler Mahallesi, 323/1 Cadde, C Blok, Gazi Üniversitesi Teknokent Binası No 10/50c İç Kapı No: 129 Gölbaşı/Ankara.

3. FINANCIAL RIGHTS GRANTED TO BOARD MEMBERS AND SENIOR EXECUTIVES

The total gross fee paid to the members of the Board of Directors and senior managers in the period of 01.01.2023-30.06.2023 is 2.661.806,01 TL.

4. COMPANY ACTIVITIES AND ORGANIZATIONAL STRUCTURE

4.1 General Activities of the Company

In the article 3 titled "Purpose and Subject" of the Company's articles of association, the company's field of activity is summarized as follows;

To design, produce, conduct maintenance, and sell all kinds of systems, related to computer and information technologies as well as information security, to provide e-signature and certificate regarding an e-signature, to serve as a software and system integrator, to do consultancy and engineering, education and counseling as well as industrial design, to conduct any type of biometric system design (inc. fingerprint, iris, vein of face ID), to build biometric system webs, to manufacture software, to conduct the sale, maintenance, and technical support regarding these systems,

To carry out all kinds of training, research, and development activities related to information systems, to design all kinds of security systems, to set up safety webs, to develop software, to provide maintenance, repair, sales, support, and technical services regarding these services;

The actual field of activity of the company can be defined as follows;

The company has been operating in the fields of R&D, Innovation, Software Development, Integration, and Solution Providing in Gazi Teknopark since 2006.

The Company that is a holder of the certificates titled ISO IEC 15504/SPICE Lvl 2 Software Development Maturity Certificate, ISO 9001:2015 Quality Management System, ISO 14001:2015 Environmental Management System, ISO 45001:2018 Occupational Health and Safety Management System, ISO 27001:2013 Information Security Management System, ISO/ IEC 20000-1:2018 Information Technologies Service Management System, Facility Security Certificate NATO & National, 24/7 Call Center, Support and SLA Management, and Supplier certificates approved by Military Factories, have placed a high value on R&D studies, providing innovative software and projects, and actively collaborating with public institutions and private sector organizations in Türkiye, as well as the world's leading companies in the international arena. Furthermore, it has been serving as a solution partner for a variety of institutions and organizations, providing tailor models and turn-key solutions.

With the MIA-MED Hospital Information Management System (HIMS) software, the company, which continues its collaboration with important university hospitals in the field of health, contributes to the creation of high standards manageable hospitals that cover the needs of the health sector, in accordance with the competitive environment and technological developments of the day. In addition, the company has been collaborating with many institutions in the sector and offering systems that can significantly solve a facility's needs by providing an infrastructure that can be developed utilizing PizzyKurum- Integrated Facility Security and Control Systems software.

The company has been serving as a software developer, manufacturer, and system integrator in many sectors, especially in the IT and health sector, with companies with significant brand value in Türkiye such as Aselsan, Havelsan, İnnova, Türksat Bilişim, NEC.

The company is an IT company established in 2006 to operate in the field of software. Since its establishment, it has been developing software products for the practical field requirements of the sector in the IT sector and has been serving public and private organizations in many areas.

4.2 Information on the investment made by the corporation during the relevant fiscal period:

Facial Recognition and Matching System Created with Native Image Processing and Pattern Recognition Algorithms

Face detection and matching software, which are the most important pillars of face recognition systems, will be developed with the project. The output of the project will be facial recognition and facial recognition software for an innovative and completely local facial recognition system. Both national achievements and commercialization successes of the project will be achieved, which will serve to many different sectors such as security, personnel follow-up, statistics generation, decision support, and identification.

In addition, the system aims;

- To produce the software necessary to develop a local facial recognition system,
- To produce a quality system with limited and low resources,
- To produce a system suitable for cyber security and data security,
- To develop a system that can serve nationally and internationally.

Biometric Verified Video Conferencing System

When internet access and camera are available, the system will perform face recognition at certain intervals with the conference 1-1 method on the platform. In the absence thereof, access to the software will be available by fingerprint or face recognition according to the transaction device used (mobile, tablet, pc). In addition, with today's technology, an innovative and safe solution will be offered on issues such as distance education, remote diagnosis, online exam, in-house interviews, witness listening, and e-judgment.

With the project we plan to realize, it is aimed to reduce the cost for the following areas of use, to ensure that the right person is processed, and to offer a rapid and easy solution.

- Job interviews,
- Human Resources Interviews,
- Intercompany Negotiations,
- Inter-Branch Meetings,
- Meetings with Field Staff,
- Official Meetings,
- Distance Education
- Online Exam Systems,
- E-Judicial Systems, (Witness Hearing, Remote Interrogation)
- With a software to be developed on topics such as Medicine-Remote Diagnosis, it will be possible to bring people together in a different location and verify the video conference with face recognition.

The remote health information system, where the identification process of the patients is carried out through biometric verification, can provide a doctor-patient examination interview in an interactive environment. In this way, the physician can access all health data of the patient and make the necessary evaluation.

MİA Vehicle Identification Solutions

It is the development of a bundle software that can perform all identification processes on the vehicle on a single platform. It aims to develop a system that can perform license plate recognition, vehicle make-model and color recognition, under-vehicle imaging, passenger biometric face recognition on both a fixed campus and a fluid path and that is matched with the system integration authorized units. The license plate identification system is a system in which the white or black lists created by the vehicles to be added individually or collectively and the license plates coming from the cameras are checked, all transitions are recorded, transaction inquiry can be made on the basis of license plate retrospectively and the results can be reported, vehicle registration inquiry can be made with the license plate and the list and other information of the vehicle can be changed.

Vehicle make-model and color recognition system is a system for detecting make, model and color information through the images received from cameras.

Under-vehicle imaging systems are systems based on the imaging of the under-vehicle with the camera at a passage point and the comparison of this image with the source image (former or known).

Biometric facial recognition, on the other hand, shall be performed by obtaining the facial information of the user in the driver's location and pre-processing, facial identification and identification shall be performed.

Mobile Multiple Biometric Recording Unit Development

The product we plan to realize within the scope of the project is to realize a mobile unit that will enable matching on both the registration and the server for many different applications thanks to a platform structure; face recognition, iris recognition, fingerprint recognition and obtaining identity information with MRZ technology.

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The project to be developed is to produce a flexible and reliable mobile solution that can work in areas where identification (especially biometric) is important, such as border security, document security, banking and insurance transactions.

With the developing unit, all this biometric and encrypted data will operate in a standard matching logic with the help of a server communication. Thanks to its mobile structure, it will be free from restrictions such as power, data line, utilization area and will be able to work nationwide and even worldwide thanks to cloud architecture.

Cleanmask-Tech Controlled Mask Dispenser and Hand Sterilization Point

The device rapidly performs the procedures of mask delivery, fever measurement and hands disinfection with steam without contact with card reader, barcode reader, coin etc. methods. This project, which will be produced with domestic and national resources;

- Will be able to provide services directly to the person without the need for an intermediary agency or organization.

- Upon request, will be able to work integrated with other applications (e-government, e-municipality, etc.) and

- It will be self-served, namely no need for an assistant staff.

- It will allow you to directly get masks without any intermediary contact thanks to the voice command.

- It also has integrated operation with PACS and access control system.

Areas of Use;

- Shopping Malls
- Educational institutions
- Public and Private Sector
- Airports
- Public Spaces etc.

Every patient who has a registration or appointment in HBYS can benefit from the services provided by CleanMask-Tech through the code given by the system.

The personnel registered in HBYS can also benefit from the card information.

Health data obtained from the CleanMask-Tech system (body temperature measurement, mask acquisition, hand disinfection) can be automatically transferred to the HBYS examination system.

MİA Health Integration System

Hospital Information Management Systems (HIMS) required for the operation of hospitals; Transactions between hospitals and other health institutions (transfer, laboratory external service, assignment, etc.); Transactions between health institutions and government institutions (Medula, SGK Progress, 112 Emergency, Medicine Tracking System; Organ Donation, AFAD, CBS, e-invoice, Physician Control Systems, Central Health Appointment System-183, Blood Bank, etc.), transactions between patients and

health institutions (e-pulse, laboratory-radiology-pathology imaging, etc.); Transactions between healthcare institutions and private companies (e-procurement, tender, stock, etc.) are presented in an easy-to-follow and reportable way on a single platform.

Depth Analysis and Obstacle Detection with Image Processing for Aircraft

In the project, unmanned aerial vehicles will be provided with obstacle detection feature based on automation and learning. With the platform we want to develop, obstacle detection will be performed with automation and a decision support mechanism will be provided. In addition the innovative aspectas are as follows; remote mapping and virtualization with the time of flight camera, an automation that is able to learn and obtaining geographical data for special scenarios. It also provides some innovative outputs in terms of security of critical areas, border security, flight sites and object detection. Especially for GIS systems, a new method will be introduced in special and challenging fields. Another innovative aspect is the elimination of a missing system for defense industry and national aviation.

Traffic Control System Project

Within the scope of the project, a traffic control system software consisting of web-based application, decision support module and server application will be developed. TCS project is an integrated system that includes vehicle counting, license plate recognition, instantaneous speed control, red light violation detection, average speed control, safety lane violation, smart intersection system and parking systems. The software to be developed will process the data (camera, radar, infrared sensors) received from different sensors and will be able to create reports in line with the data obtained and share them in the application center. In this context, reports may have content such as date, time, scene, license plate information, number of vehicles, traffic density, traffic density direction, image and/or video.

Multi Biometric Person Recognition System with Remote Temperature Measurement

It is a system that can be integrated with remote contactless temperature measurement and mask control transition systems. It ensures that the personnel whose attendance checks are carried out in the public and private sectors are also subjected to daily temperature measurements and mask control and recorded and reported. If the detected body temperature is above a certain level, the system can give a sound alarm and warning and send an e-mail or SMS to the desired points. The innovative features of the system we have developed:

• Personnel Attendance Tracking, Face Recognition, Temperature Measurement, Mask Tracking, Alarm and Warning Mechanisms and Passage Control are the only domestic products offered together.

• Tracking 8-10 people at 30 FPS speed at the same time (up to 6 people in competing products)

• Costs 60% less compared to its overseas counterparts.

Through the system, in accordance with the COVID-19 Regulation, fever measurements are made and recorded at the entrance of the employees to the hospital.

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This system, which is created to meet these and similar needs, meets the necessary security procedures.

Body temperature and mask control of the patient and personnel who want to enter the hospital are immediately detected when the person approaches the relevant limit. If the person's body temperature is within the accepted value range, the person's passage through the system is ensured. If the body temperature of the person is above the accepted values, a warning is made on behalf of the relevant person through HBYS and the position and persons to be informed are informed of the situation.

MIASOFT: Development of Multimodel Biometric Fusion Based Authentication and Identification System Software

Authentication (1: 1) and identification (1:N) functions will be provided within the scope of fusion to be realized in line with multimodal biometric (Face, Fingerprint, Finger Vein Print) data with the project. The fusion to be performed in line with the data obtained from different biometrics will be performed at the attribute level (Feature Level), at the matching value level (Score Level) and at the decision stage level (Decision Level). A more effective biometric system will be revealed in line with the values of Accuracy, False Acceptance Rate (FAR) and False Rejection Rate (FRR) regarding the authentication and identification processes with biometric fusion.

The Patient Verification Interface in the Patient Kiosk Information System is used in this infrastructure.

The same infrastructure is used in HBYS Personnel Tracking Systems and Health Approval Mechanisms (Prescription doctor approval, order doctor and nurse approvals, health board examination events, etc.).

Image Processing and Pattern Recognition Project in Big Data with Deep Learning Layers

Great progress will be achieved on the detection and estimation-matching times of the machines through deep learning and big data. Thanks to the database created, a large amount of data will be scanned very quickly and the requested operation can be performed faster and easier. Deep learning, which supports the learning mechanism of machines, plays a major role in analyzing the acquired data and accelerating the processes. Thanks to the data volume, data diversity and data loading speed, sector needs can be scenarioized faster and solutions or innovations can be brought.

With this infrastructure, interaction controls such as drug-drug, drug-symptom, drug-diagnosis, drug-laboratory result, drug-allergy, drug-nutrient are provided in Patient Clinical Decision Support Systems. Apart from this, Smart Stock Analysis Solutions in Demand Management Systems are offered through this infrastructure (deep learning).

Integrated Modern Health Informatics Layers Project

It is necessary to determine, supply, stock, preserve, distribute, use the needs related to the drugs and medical consumables used in the provision of services in hospitals and to use the barcode system for an effective material management of these processes and to implement it by supporting it softwareally and to improve the invoice unit service.

With the Integrated Modern Health Information Layers Project, it is aimed to develop and implement the hospital invoice and stock management system for the accurate processing of examinations, interventions, drugs and consumables into the system in order to ensure the lossless operation of the

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Hospital Information Management System (HIMS) and to increase income, as well as to ensure the correct operation of the statistics received by the lecturers for scientific research projects through HIMS.

Development of a Reliable System for Rapid and Secure Biometric Authentication Project

Our primary goal within the scope of this project is to introduce a new approach to the authentication methods that companies carry out during the recruitment process by integrating Optical Character Recognition (OCT) and Biometric Identification (BKT) technologies.

The Development of a Reliable System for Rapid and Secure Biometric Authentication project covers sectors that include all business profiles. Biometrics and optical character recognition activities will be used together in authentication. Recruitment and authentication activities will be based on automation, affordable and high accuracy. It will provide a different solution compared to the solutions currently used.

This infrastructure is used to prevent false identity declaration in the Authentication process, which is actively used in the HBYS Patient Registration System.

Personalized Medical Cabinet Project

With the development of software and hardware within the scope of the project, it will develop a personalized medical cabinet that can be used in all health institutions, can work fully integrated with existing hospital information management systems, and has a decision support mechanism with unique parameters. With the realization of the project, this device, which is not currently used in hospitals in Türkiye, will contribute to improving patient care processes, accelerating the hospital workflow process, facilitating and recording drug follow-up, and preventing human-induced negativities in the patient care process.

Personalized Medical Cabinet Project is offered to the right patient as an integrated solution to HBYS Clinical Order and Pharmacy Systems with the aim of applying the right drug, the right dose and the right time mentality.

Automated Exam Evaluation System Project with Machine Learning and Natural Language Processing Techniques

The project is the development of a software system that automatically evaluates and scores the classical exams organized in SSPC (Student Selection and Placement Center), MoNE and their affiliated institutions and organizations by eliminating the human The software will be developed with natural language processing and artificial intelligence technologies and will be the first in its field in Türkiye.

With the realization of the project, it is planned to benefit from the classical exams that millions of students sit every year in order to reduce the workload in the evaluation process, to reduce the costs caused by the human factor by 40% and to minimize the errors caused by human intervention.

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Through the project, it allows the digitalization of the data of the patients that are not in the digital environment by using the infrastructure of this system and its transfer to the HBYS digital archive.

Contactless Kiosk Project

During the pandemic crisis, it is observed that digital infrastructure has a great importance in many areas in terms of public health management. Digital infrastructures need to be strengthened to reduce the effects of today's and possible future crises.

With the kiosk we will develop, it will be able to easily control the interface of the person with its sensors that detect hand movements, transfer the videos, images and texts in the system to the person, and provide information without disturbing the environment thanks to the speaker system that provides linear audio transmission.

This project provides solutions to many issues such as identifying the patient through identification, making appointments through sensors that detect voice and hand movements, viewing laboratory results, viewing radiology reports and taking the unit order.

Autonomous Cleaning and Disinfection Robot

Thanks to the project; it will be able to be used in closed and contaminated risk areas, shopping malls, workplaces, campuses, institutions, hospitals, operating rooms, dining halls, etc. in areas where high sterilization is needed. The Sterilization Robot, which will be a fast solution partner in pandemic problems, will play an active role in managing crisis moments and sterilization measures.

The project reports the areas completed by carrying out the disinfection procedures according to the building, floor, room, operating room, unit plans in HBYS. It provides continuity by monitoring the stock level of the materials required to maintain the cleaning and warns the relevant units through HBYS.

Mia-Tech Project

The Mia-Tech project targets all works that cannot be managed by traditional methods and will also be a solution that will improve the processes of campuses, public institutions, banks, shopping centers, university and city hospitals, prisons, factories and private enterprises, which are managed inefficiently and have a high number of employees and visitors due to the manual processes.

The group will develop solutions that will increase the efficiency and profitability of the institution by combining the needs and requirements with the quality of service in the departments of the institution outside the main fields of activity and aiming to meet all the needs of many institutions end-to-end with the project.

The solution to be developed will be customer-oriented, thus ensuring that all processes that directly affect the benefits of the organization are structured and managed in the best way. MİA Tech will be the decision support mechanism for predicting the situation after the change and determining the risks by being in a structure that will allow the evaluation of the current situation.

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By making use of the infrastructure of this project, it provides data to the relevant financial reports by conducting income-expense analysis for all units of the hospital with the Financing System offered through HBYS.

Integrated Image Processing Based Production Line Quality Control with Cloud Integration Project;

The aim of the Group with the project is to develop an adaptive image processing system that allows instantaneous, quality control, fast, contactless and remote measurement, object recognition and defect-error detection on the line and to integrate it into the quality control processes in the production line.

Remote accessibility of the system to be developed with cloud integration will ensure the secure traceability of the system data and even provide remote use and control capability. Nonconformities (dimensional,structural and tissue incompatibilities) seen in production lines for different sectors shall be detected and sorted at the part level with a generalizable production line automation tool that can perform image processing-based measurement and evaluation.

With the project output product, it is aimed to increase the use of technology in production by enabling enterprises to increase capacity and efficiency in production, to make precise measurements and to bring products close to perfection together with the end consumer.

MİA HealthCare

As a Group, a project will be developed that will respond to the demands of the Ministry of Health, can perform income and expense analysis on a clinical basis, has a decision support mechanism, allows data exchange, can be integrated with other projects and aims to improve all processes from internal management of in-hospital processes to resource management. The system we will develop will be fast, safe, user-friendly, with all modules on a single platform, decision support mechanism and high performance.

Augmented Reality Based Mobile Application Development Project for Informative Product Content

With the project, an application will be developed to present the advertising/promotion/information stages of the product or brand through AR technology. Thus, companies will promote their brands or products with AR application.

Augmented Reality also has the potential to be used very efficiently in the field of health. Regarding this issue, the project has a potential that enables pre-modelling of surgeries and simulation of the operation to the surgeon using the Augmented Reality infrastructure and radiology visuals.

Virtual Experience for Museums - V-Rex (Virtual Experience for Museums)

The V-Rex project will adapt the processes of museums that cannot use digital assets to the developing technology, reduce the loss of income due to the Covid-19 pandemic, and provide a solution to increase the number of online visitors by increasing awareness. The V-Rex concept will allow users to log in to

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the app on different platforms, buy tickets online, or directly enter the museum of their choice. Users will be able to virtually walk around the museum with motion controls, view any item 360°, and read the written information placed next to the item with audio or AR.

Development of Mass Behavior Analysis and Reporting System for Smart Cities Concept

With the project, a system will be developed that utilizes deep learning methods that will replace standard Computer Vision and image processing techniques that are inadequate in terms of mass behavior analysis in places such as squares and temporary assembly areas where people are crowded.

Since human communities have different dynamics and psychological characteristics, behavior analysis is a challenging solution. In most GIM scenarios, there is a need to identify, count, and group community behaviors. The solution we have developed in this context is divided into five sections:

• Human counting / density estimation

• Human tracking

• Behavior understanding or anomaly detection

• Determination of mood

• Abnormal human voice detection

The system developed in this context will provide information to the security organization on the detection of the number of people in the regions where there is a density of people, the tracking of this person if there are people wanted, emotional state, anomaly and abnormal human voice detection, and possible hazards and/or threats.

Development of AR (Augmented Reality) -based Remote Maintenance System for Remote Field Support Activities

The main objective of the project is to develop a service-oriented system that implements AR technology for remote maintenance, ensuring cooperation between the on-site technician and the manufacturer. The proposed system includes methods for end-user recording of installation/failure/maintenance, the actions required by the expert to provide instructions in the Augmented Reality application for maintenance, the platform to allow information exchange and communication thereof.

Development of VR (Virtual Reality) Based Training System for Safe On-the-job Training Processes

Virtual reality occupational safety training will make factories and construction sites safer by minimizing occupational accidents and deaths from occupational accidents. Virtual reality and Industrial Job Training applications will be implemented. Virtual reality job training will also enable interactive job training with gamification on new equipment for operators and maintenance personnel.

This process will also be very useful in detecting useless or damaged parts and possible malfunctions they cause. Thanks to virtual reality job training, employees who walk around in the equipment will be able to make detailed maintenance plans with virtual reality job trainings by gamification and work efficiency will increase.

Virtual reality will also allow the simulation of dangerous situations such as equipment deterioration, chemical spread, dangerous machines, noise that may be encountered in factories or production facilities with occupational safety training and will ensure that what needs to be done is determined

without putting the operators at risk. Employees who have gained virtual training experience in unexpected situations with virtual reality occupational safety training will implement actions faster by remembering what they should do in the face of situations they experience during training in real life.

Traffic Control System Project 2

An innovative traffic control system will be developed within the scope of the project. The system content shall include vehicle counting, license plate recognition, instantaneous speed control, red light violation detection, average speed control, safety lane violation, smart intersection system and parking system. Instantaneous speed control and smart intersection systems, which have just started to be used in our country, are completely of foreign origin. Within the scope of the project, systems that will create import substitution in our country will be developed in this direction.

The developed system will process the data obtained from the camera, radar and infrared sensors and produce reports depending on the decision support. The reports produced shall be able to be shared in a desired center or in more than one location.

Indoor Mapping Mobile Application Software

The project will minimize the mistakes and effort to be made by assisting people to direct to various positions by allocating manpower, and enable people to reach the positions they want to reach with a more accurate result. The project, which is intended to be developed, will be actively used in many sectors such as hospitals and hotels with high number of rooms and floors.

Depth Analysis for Aircrafts-2:

In the project, unmanned aircrafts will be provided with obstacle detection feature based on automation and learning and a decision support mechanism will be provided. In addition, it will be used in applications such as urban planning, transportation and traffic control with its object recognition and object tracking feature.

e-Sports Reaction and Accuracy Rate Measurement Software

The AIM-TEST project, which is aimed at testing and developing the skills of the players, will be able to easily monitor the development, deficiencies and performances of the players within the teams from a single platform and present this data to the teams in a reportable way. With the artificial intelligence module to be added to our AIM-TEST application, players who test their engagement skills will be offered training programs to follow and subcategories to develop. In this way, players will be able to overcome their deficiencies in an optimal way.

Metaverse Based Virtual Event Platform

In the avatar-based virtual activity, the participant will have an avatar representing him/herself, that is, a designed digital visual virtual character, while participating and interacting with the activity. In this way, there will be no need to travel to another country to participate in the event and no significant

amount of time and money will be required. In the platform we will develop, the participant will be able to move an avatar in a wide range of digital activities, follow the activity and communicate with other avatars (verbally and by movement). The 3D digital event space will include open and closed spaces for participants and a variety of private spaces. In addition to ordinary participants, speakers, businesses, service and product providers, and organizers have avatars. Live and recorded video broadcasts are used with avatars or real persons that appear on the screen. It has digitized features of regular events such as virtual rooms, information desks, PowerPoint presentations on walls, etc.

Software for Passenger and Driver in Public Transportation Vehicles

Public transportation has two components related to the negative experience during the trip: the driver and the passenger. In the proposed solution, we aim to integrate the 'Artificial Intelligence Based Safe Public Transportation Management System' into public transport vehicles in order to increase the safety and security of passengers. Our aim is to analyze the driver's attitude and driving behavior and the attitude of the passengers in the vehicle, detecting anomalies with deep learning and image processing technologies and sending alarms to the headquarters. Thus, headquarters officials will provide intervention in line with the incoming alarms.

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This process will also be very useful in detecting useless or damaged parts and possible malfunctions they cause. Thanks to virtual reality job training, employees who walk around in the equipment will be able to make detailed maintenance plans with virtual reality job trainings by gamification and work efficiency will increase.

Virtual reality will also allow the simulation of dangerous situations such as equipment deterioration, chemical spread, dangerous machines, noise that may be encountered in factories or production facilities with occupational safety training and will ensure that what needs to be done is determined without putting the operators at risk. Employees who have gained virtual training experience in unexpected situations with virtual reality occupational safety training will implement actions faster by remembering what they should do in the face of situations they experience during training in real life. In this context, the product developed will provide labor, cost and time advantage for companies that provide on-site technical support services to their products at many different points and will offer an innovative solution.

Development of Secure Payment System with Mobile and Card Payment Solution

Unlike traditional payment methods, electronic payment systems have become widespread today. Digital commerce, which has become widespread today, has been a method that every user demands for a fast and safe payment experience. Mobile and card payment solutions aim to provide a safe

environment for users regarding security verification, privacy risk and violation of personal data, which are inadequate in payment transactions.

Counterfeit identity and unauthorized transactions for payments continue to create problems for banks and their users. As a biometric and mobile method, solutions are offered with different authentication technologies.

The developed Mobile and Card Payment Solution will provide the multiplicity of different cards and methods used in areas such as transportation and shopping in daily life through a single platform.

Disease Detection and Treatment Optimization from Biomedical Images with Image Processing Techniques

Today, medical imaging has been a fundamental component of all medical processes such as health screening, early diagnosis, treatment selection and follow-up. Patient triage, imaging-guided interventions, and optimization of treatment planning in both acute care and chronic disease are now integrated into routine clinical practice in all sub-specialties.

In modern medicine, the detection of bleeding in the body generally depends on the use of techniques such as Computed Tomography (CT) and Magnetic Resonance Imaging (MRI). Automatic detection of cranial injuries from images is a complex and challenging task for radiologists. Detection difficulties are usually caused by the excessive proximity and intertwining of the structures in the brain. The diversity of structures in the brain increases the complexity of detection and decomposition algorithms. Traffic accidents and falls are the two most common causes of traumatic brain injuries (TBI), and falls are slightly more common. According to the data of the American Speech-Language-Hearing Association, at least 1.7 million TBH cases are seen every year in the United States, and more than 45% of these cases constitute Epidural Hematoma (EH) cases. In our project, we aim to detect the EH regions from the CT images of the brain by finding the limits of bleeding and measuring its size. In our project, artificial intelligence will be used with image processing techniques during the border detection process. Professional assistance will be obtained from the specialist radiologist to determine the actual limits of bleeding. Then, the proposed algorithms will be tested on the images, the results obtained will be compared with the actual limits, and the error rates will be calculated at the end. At the other stage of our project, the treatment process determined by the doctor will be updated instantly and dynamically based on patient data by using the Process Mining method in the follow-up of the disease. Data will be used with Synthetic Data Production technique to ensure the security of data within the scope of LPPD.

MetaMALL - Metaverse Based Virtual Bazaar Application

Metaverse is a digital reality that combines features of social media, online gaming, augmented reality (AR) -, virtual reality (VR), and cryptocurrencies to enable users to interact virtually. Augmented reality places visual elements, audio, and other sensory inputs in real-world settings to enhance the user experience. In contrast, virtual reality is purely virtual and improves fictional realities. As the metadata store grows, it will create online spaces where user interactions are more multidimensional than the current technology supports. Users in the metadatabase will be able to immerse themselves in an area where digital and physical worlds converge, rather than just displaying digital content. Together with our project, it will be modeled in a meta-verse (Technopark, shopping mall, bazaar, etc.) where companies operating in various fields are together. The modeled area will be divided into specific parts

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and allocated to companies. Indoor modeling of the allocated areas can be done according to the demands of the companies.

Air Purifier Oxygen Point with Water Algae Support

Breathing fresh air is of great importance for all living things. Diatoms and other microscopic algae in the oceans produced two-thirds of the world's photosynthetic carbon demand. Trees play a big role in our daily lives to ensure that we breathe healthy. Algae have many different uses in the sector, and one of them is to clean the air we breathe. The replacement of green areas by reinforced concrete areas in the modernizing world negatively affects the availability of sustainable content to all living things. Although there are many contents related to air cleaning, it is important to create a sustainable model by benefiting from the opportunities offered by nature and to contribute to nature in terms of the understanding of creating a renewable environment. Since the main working principle of our project includes a systematic use based on algae, it will not only benefit from nature; it will also have the feature of mixing with nature again as it can be used as fertilizer after the algae are exhausted. Thus, it will be able to offer what it receives from nature as a contribution to nature in return. This system covers a green sustainability project to be developed for various environments by converting carbon monoxide, nitrous oxide and various particulate contaminated gases into oxygen and biomass through photosynthesis as a result of processing.

Blockchain-Based Video Conferencing Application

Video conferencing systems are the communication center of the business world of the 21st century. In particular, video conferencing applications developed to reduce the travel expenses of the business world, to make time management efficient, etc. have become an integral part of social and professional life with the Covid-19 pandemic. However, it has been observed that video conference systems, which are the effective communication source of the business world that has evolved into a digital environment, are sometimes incomplete in terms of security. Security breaches such as interruption of sessions, unauthorized access to corporate data, etc., called 'Online Video Piracy', have increased with the widespread use of these systems. Video conference applications (Zoom, WebEx and Skype), which were introduced to the first global bombing violations in 2020, have started to work with intelligence officers to ensure the data and identity security of their users. However, similar violations and unauthorized data sharing events continue today and efforts to strengthen the security dimension of conference systems are gaining momentum. Although end-to-end encryption and code generation are primary security measures in conference systems, third-party violations still exist.

The areas where our Video Conference Application will take place with the features of security, cost-effective and ease of use provided by our product are as follows;

• Remote education

• Remote diagnosis

• Online exam

• Inter-agency and internal meetings

• Human resources interviews

• E-Justice systems (witness hearing, remote interrogation)

- With the application to be developed on issues such as e-examination (medical diagnosis), it will be possible to bring people together in a different location and to carry out video conference processes without security violations.

Development of Smart Public Transportation Solutions in Urban Mobility

The management of crowded populations in public transport (PT) systems is crucial both to promote sustainable mobility by increasing user comfort and satisfaction in the normal functioning of public transport systems and to cope with emergencies such as pandemic crises or disaster management situations as recently. Our project aims to increase the experience of both user, driver and smart transportation systems in different segments of the public transportation system (buses/trams/trains, railway/metro stations and bus stops). In order to achieve our mentioned goal and to convey our project idea in an open systematic perspective;

- A reference architecture will be created for crowd management using modern information and communication technologies (ICT),

- A crowd-sensitive approach will be developed to monitor and predict crowd incidents and to ensure real-time and adaptive operation control in transportation systems,

- Inform users about the crowded state of the public transport system in real time through electronic screens and/or mobile transportation applications placed inside the vehicles or at bus stops/stations,

- It can also be used in autonomous vehicles that will be a part of public transportation systems in the near future; The Sensing and Actuator Subsystem (SAAS) will be created for passenger density detection.

It is envisaged that the innovative crowd management functions provided by ICT/IoT detection technologies, which have been actively used and disseminated in crowded urban areas for the last few years, can be applied gradually as an add-on to the latest technology transportation system platforms. The most original aspect of our system architecture; thanks to the structure that allows passengers to book and pay for tickets through the mobile application, a structure that increases the experience for both public transportation system users and officials will be provided with additional time, data supply to create an alternative route and effective crowd management with real-time detection of the density at the stations and stops.

Obtaining Sectoral Productivity Estimation Using Machine Learning Techniques

Rapid advances in artificial intelligence have the potential to directly affect the economy and society at large. These innovations have significant effects on both production and the wide range of products and services in terms of product characteristics, efficiency, employment and competition.

Today, computers that have a power over human intelligence have a very strong structure in terms of examining the data that people cannot follow and the relationships between these data, overlapping these data with incidents and presenting predictions for the future. In these days when innovation and digital transformation have increased its popularity, various sectors use this power to provide various benefits is the focus of our project.

Linear regression, Decision Tree, Random Forest SVM (support vector machine) and Neural Network technique (artificial neural networks) LSTM (repetitive neural networks) methods will be used while implementing our perspective aiming to increase productivity in different sectors during our project.

Regardless of the sector, the system to be developed will be able to fulfill its efficiency-oriented function perfectly with the data presented by different sectors.

Deep Learning Based Boundary Detection Project

Boundary detection is an important problem in computer vision. The edge that finds the boundaries between the light and dark pixels in an image is different from the detection. Boundary detection detects semantic boundaries between what people would consider different objects or regions of the image. For example, a zebra has many inner edges between black and white lines, but people don't see these edges as part of the zebra's boundary. A complete solution includes high-level semantic information about the scene in the image that computers do not yet have, which focuses on learning an approximate limit detection algorithm from the training data.

The project aims to ensure that the area to be examined/analyzed is determined with high accuracy by determining the boundary over the images. The project aims to accelerate the business processes of individuals and institutions operating in the relevant sector and to minimize the time spent on the subject within the scope of the project.

Some areas of use of the project output product:

• Boundary detection of the cultivated area or land by the companies/institutions operating in the field of agriculture,

• Boundary detection of the pathology in the image by the companies/institutions operating in the field of health,

• Detection of defective region in the product in the production line by companies/institutions operating in the industry,

• Determining the rise and fall of water by image processing in dams or rivers and establishing an early warning system by detecting the possibility of flooding.

The operation of the model to be developed;

1. With the growing contour analysis based on the removal of morphological properties, the boundaries of the cultivated areas will be tried to be determined.

2. Rough limitation of the areas will be ensured by the contour analysis method.

3. The results obtained from the contour analysis with the Convolutional neural networks (CNN) that we will develop will be more precise.

Development of Roof Mobile Application for Shared Systems within the Scope of Mobility

Smart city technologies and transportation systems help cities to reduce carbon emissions, cope with the growing population, overcome congestion and create sustainable futures. Mobility, an important dimension of smart cities, brings together some improvements of the public space and public, common and active travel models with a descriptive sign; parking spaces of shared bicycles, electric scooters, car sharing models as well as public transportation stations. In short, you can find a car, a bus, a scooter or bicycle or even a metro station in the mobility centers, and you can choose integrated vehicles according to the route you are going to.

Shared mobility systems, which take their place in developing technology as a sustainable, cost-effective and innovative urban transportation option that covers the first and last kilometer journeys and aims to provide short-distance travel options, cover mini vehicles such as bicycles, skateboards and electric scooters with speeds not exceeding 45 km per hour and help to alleviate urban traffic jams. According to the Electric Scooter Regulation, the speed limit is determined as 25 km/h.

The area of mobility (MaaS-Mobility as a Service), which is the creation of a single mobility service that can be reached by integrating different types of transportation services, is quite wide. It serves not only to transportation. At least four perspectives are clear. Personal use, public transportation, shared mobility services, and software for commercial uses. The MaaS system, interacts with many fields, especially information-software technologies, including transportation, communication, public, law and finance.

As a mobile device, MaaS provides the opportunity to manage the entire system from a single source by using a smartphone. The mobile phone constitutes the initial stage of MaaS. Featuring an interface that includes location-based service-connected tools, and being able to be anywhere with multiple technologies such as wireless broadband, smartphones, smart tablets, MaaS makes it easy for people to plan, book, and pay for a trip. Project output will be an application covering all public transportation lines and mobility systems within the scope of product MaaS. With this application, when the passenger wants to go from point A to point B, he/she will be able to access information such as which elements of transportation he/she can access from where, where he/she can find each element, how long he/she will use the elements, when he/she will reach the point he/she wants to reach from a single center. The application to be developed will provide access to all transportation infrastructures such as buses, taxis, rail systems, e-scooters, e-bikes, car rental platforms.

MaaS projects are generally located in developed countries in Europe, North America and Asia. There is a high concentration of projects in Europe, especially Germany leading more than one MaaS project. With the project, we aim to prevent CO_2 gas emissions by ensuring the dissemination of MaaS systems in our country in the first place and creating environmental protection awareness in people.

Autonomous Flight Capability Development and Management System

Similar to self-driving vehicles, autonomous flight is characterized by aircraft equipped with technology that can travel independently in its own direction. This term covers any aircraft that does not need people in its controls, from small unmanned aerial vehicles to passenger jets. The existence of physically relevant vehicles is an undeniable fact and has a great importance and place in our lives. Modern aircraft have a variety of features to fly without a continuous pilot in the controls. In addition, many aircraft spend most of their flight time flying on their own in the air. However, there is a big difference between this and autonomous flight. Modern aircraft follow a specific flight plan placed by the pilot in the Flight Management System, thus performing a flight specific to the set configurations, adhering to the respective route. The aircraft is equipped to follow the flight plan but not to deal with problems that arise during the flight; these are events that require human reactions and are carried out by the pilot or co-pilot. The autonomous factor, in a way, includes an artificial intelligence that can react by thinking on its own when events outside the flight plan occur. Eventually, they would be able to take off and land without a runway and deal with turbulence or engine problems without a human in the cockpit.

Specific to the project, this system includes the development of autonomous flight integration to plan and regulate flight paths, as well as to enable the drone to position itself and return to the starting point when there is no GPS signal. This system, which will be developed, will make a great contribution to

airway traffic; by gaining the reaction capabilities of people with the deep learning method, it will provide the quality of making the most accurate moves that will reach the most accurate results at the points where human competence will be slow or inadequate.

MİA-XR App

Due to time constraints in healthcare education processes at the global level, intensive curricula and challenging surgical techniques put pressure on educators to help students achieve the required high levels of psychomotor skills in a short period of time. Concern that reducing surgery time in the overly busy curriculum of health care professionals could limit opportunities for interns; The emergence of simulation techniques has led to the frequent preference of digitalization in our world where digitalization is increasing as a way to increase efficiency in the provision of practical training. The latest developments are taking place in this context in the field of virtual reality (VR), which is defined as a computer-generated medical simulation of a 3D (3D) image or environment with which a student interacts seemingly real or physically. Simulation in healthcare has developed since the late 1960s, when mannequins for anesthesia training were first introduced, and in the 1990s, with the growing interest in minimally invasive surgery, the first simple laparoscopic simulators were developed.

Today, the potential applications of digital technologies in the teaching-learning process have begun to be used in many areas of medicine. Virtual reality (VR) technology, one of these new technologies, is also used in medical and dental education and the process of spreading as a teaching tool has been increasing rapidly since the beginning of the 90s. VR technology represents the artificial simulation of a real-life environment using a computer, and this technology offers a virtual reality world, abstracting the user from the real world.

MİA -VR App

The use of digital three-dimensional (3D) models to aid learning and teaching in anatomy education has become common over the past decade. There are now several commercially available computer programs and mobile applications that provide useful accolades to traditional anatomy training and allow users to interact with 3D models of human anatomy through rotation, magnification, and even virtual "dissection" (which is the process of dividing the outside into pieces to study the internal structure of any organism). In addition, several researchers and universities have created similar models for their own educational processes and tested them on various student populations with generally positive results. More recently, virtual reality (VR) has been explored by a number of institutions as a way for students to interact more with virtual models. For example, students who participated in VR simulation training, which was designed using 3D digital models to teach students heart anatomy, obtained more of the skills and knowledge they acquired in current model studies. VR simulation trainings, which are just beginning to become widespread in the medical world, are based on repeating real-life surgical situations. By providing the type of operation or limited patient visual (body only), they are taught how to use surgical operation tools, apply new techniques, and complete complex procedures. Existing applications provide a risk-free area where the virtual operating room and the patient and the user can apply the techniques and establish trust, and provide an environment that allows medical professionals to work together and work as a harmonious team.

The overall content of our project is the interaction with an artificial object or medium through computer software using an immersive hardware such as the term 'Virtual Reality' (VR), Oculus Rift and HTC Vive headsets and using a display (HMD). Bone anatomy, which is the cornerstone of medical education, was

chosen as the training scenario to be created in VR environment. Bone anatomy applications developed in VR environment focus only on the anatomy of the head (temporal region). The training scenario to be developed within the scope of our project will be brought to the world of medicine and technology by approaching bone anatomy training from a holistic perspective and creating a training scenario containing 'long, short, flat and irregularly shaped bones' consisting of four main bone anatomy collections in the human body.

Deep Learning Based Image Processing Platform

Food is the most instinctive need of humankind. Ensuring food security is a strategic necessity for more than 7 billion people today. According to the estimates of the United Nations, in 2050 the world population will exceed 9 billion, and therefore it is a necessity to manage the variability in the land and obtain high yields from the unit area using many analytical tools to improve the efficiency of agricultural operations. Using digital and innovative technologies, we will achieve success and prestige in international and local market areas, bring a competitive infrastructure to our country's agricultural production and contribute significantly to GDP 'Real-Time Detection of Weeds: Implementing our 'UAV Platform Powered by Deep Learning Based Image Processing' project has become the focus of our project. Currently, agricultural monitoring is typically carried out with a variety of different approaches. Traditionally, fields and crops are manually inspected and tracked by producers who use them with various agricultural tools. With the use of agricultural machinery such as tractors, field release, planting and pre-harvest controls are carried out.

From a technological point of view; farmers use nitrogen sensors to calculate nutritional demands for fertilization while driving in the field. Although these approaches are still widely used for farmers operating in the field of agriculture, there is a need for technologies that can perform early detections with a high accuracy rate guided by autonomous systems, and the demand for technological approaches that use different and innovative technological steps together is increasing. Among these needs, satellites that can perform early pest/weed detection with image processing skills, Unmanned Land Vehicles (UAVs) and Unmanned Aerial Vehicles (UAVs) stand out.

Development of Metaverse-Based Education Application

Rapidly developing game culture, virtual world literature, rapidly increasing personal computer ownership rates, developing computer graphics tools, then developing games, the internet reaching all over the world, developing virtual reality and augmented reality technologies, blockchain and crypto coins, developing server technologies, cloud computing and edge information technologies have now introduced the concept of metaverse into our lives. The parts of the metaverse and the technologies with which it is associated are developing rapidly, and it is thought that these technologies will enter our lives even more in the future. The positive impact and contribution of Metaverse technology on educational processes is an indisputable fact. Due to the rapidly increasing human population and the need to educate this human population and to train professional professionals in different fields, it is a necessity. This situation further reinforces the importance of virtual and augmented reality training in training processes in order to train professional professionals from many different occupational groups from the medical field to the field of education, from the production sector to mining and emergency situations. For example, it challenges nurse educators to find innovative methods to help nursing students develop and remember key skills while ensuring patient safety. Thanks to the metaverse, where we can create a digital twin of the real world, we can bring higher education institutions, a nursery or

high school education to the virtual world and create its digital twin. It is stated that thanks to the VictoryXR (2021) metaverse, the door to a more robust campus can be opened for universities through virtual campuses. It is also noted that virtual world interaction was viewed positively by parents, noting that while parents don't like to pay for two-dimensional computer screen training for their students, they care about interacting on the digital twin campus with live lectures and real-time chats with professors, and they pay more motivated. In addition, thanks to the digital twin, the company can actually assign an instructor (such as mathematics, physics, chemistry teacher or professors) for each student in the virtual world, and the student activity and learning process can be improved thanks to artificial intelligence technology that records the user interaction of augmented reality according to the characteristics and characteristics of the student and applies behavior and scenarios accordingly.

MİA-ViewAR

Outdoor direction tools were not very popular in their early stages. But today this scenario has changed and many people cannot find their way without the help of these tools. Outdoor direction tools are among the applications that save time to users and are used frequently. The same applies to indoor direction tools. The answer to the question of whether indoor direction tools are important is positive. A few points are listed in the following sections that support this answer. The indoor direction that forms the basis of our project idea is a completely innovative idea and is quite suitable for the use of today's architecture, where most facilities such as offices, hospitals, campuses and shops are built in large areas. Once inside these facilities, it is a good idea not to rely on traditional paper maps, as these maps are difficult to use, there are time losses when dealing with maps, and this damages users' time management. For example, in a medium-sized facility visited for the first time, it takes 13 minutes for users to find directions from an optimistic point of view. Innovative technology that supports indoor direction provides endless possibilities.

Organizations exploring indoor direction tools envision a wide range of uses that include asset tracking in warehouses and hospitals, analytics for retail, and proximity or local marketing for retail/e-commerce. The use of these options will assist enterprises in increasing the investment incomes and being more effective. In addition, Indoor Direction tools also have useful features for disadvantaged groups. For example, it can help the visually impaired find their way in large indoor facilities. In short, almost anyone can adapt indoor direction tools to their needs.

Smart Waste Management System

Smart cities are a concept that we have frequently encountered in recent years. While transportation and energy consumption are of great importance in this regard, the steps of transformation into a smart city are accelerating with the addition of innovative infrastructures and equipment to cities with sufficient infrastructure. Especially in our metropolitan cities, making the systems smart is important in terms of both ensuring an accessible and healthy life for the residents of the city and increasing the investments with high environmental awareness. There are many examples of smart cities in our country. It is known that smart city concepts have advantages such as both raising the social level of the people and providing great savings in the costs of municipalities, etc. One of these advantages is the integration of efficient waste collection systems into the infrastructures of cities. For example, in the current situation, all of the information such as where the waste management route passes, where the containers are, how many vehicles collect the garbage is based on the experiences of the people. In addition, many municipalities do not even know how many containers they have on the site and where

they are. However, as a result of the smartization of waste management systems created with experience with IoT devices, it is possible to save distance and time as well as vehicle, fuel, vehicle maintenance cost, personnel cost and depreciation by obtaining efficient route optimizations. In addition, with optimized smart waste management systems, personnel control and management mechanism can be processed more proactively and responses to public complaints can be produced more effectively.

Implementation of Smart Transportation Systems

The concept of smart city, which envisages the effective use of Information and Communication Technologies (ICT) in order for cities to have a more effective and sustainable management approach, started to spread in the early 2000s. Especially in infrastructure renewal and development processes, which are an important part of the concept of smart transportation systems, 'smart intersection management' increases its increasing importance with its intersection density and vehicle counting, monitoring and management of the entire intersection from the central system, remote detection of fault situations and taking precautions, reducing traffic density and accidents, providing an effective traffic flow and control system, optimizing traffic waiting time and reducing carbon emissions. In today's transportation system, intersection management is one of the most difficult problems to solve. Current traffic light systems cannot cope with increasing urban mobility due to the increase in traffic volume, and depending on this situation, economic and environmental disadvantages, especially security, emerge. Smart intersection management is the new intersection management that emerged with the development of technology and communication environments. In these systems, all elements such as road users, infrastructure and traffic signal controllers have the ability to efficiently transmit and coordinate traffic flow in cooperative intersection management.

Management and End-User Software for Shared Electric Vehicles

The use of electric vehicles as a form of urban transportation has been growing in popularity around the world over the past few years. Many cities are focusing more on shared electric vehicle infrastructure to encourage increased use of mobility vehicles (electric bikes, scooters, etc.). While infrastructures for electric vehicles (charging stations, separate lanes, parking areas, etc.) continue to be established in cities, the development of sharing-based station location detection methods also adds significant advantages to users' mobility experiences. Services called shared mobility systems, which cover end mileage journeys, offer short-distance travel options, and take place in developing technology as a sustainable, cost-effective and innovative urban transportation option, cover mini vehicles such as bicycles, electric bicycles, skateboards, scooters, electric scooters whose speed does not exceed 25 km per hour and help to alleviate urban traffic congestion.

Our project proposal includes user software and administrator software for electric micromobility vehicles. The project content consists of Station Determination Model, Geo-fencing, Balancing, Virtual Station, Payment Systems and IoT technologies. In the Station Determination Model stage; depending on the configuration and size of the city and including the trends of the user audience in the process, the locations of the stations to be established with a strategic and optimal planning will be determined by route optimization. In the geo-fencing phase, it is a virtual environment for the real-world geographic region. In the Station Determination Model stage, users will not be able to go beyond the specified diameter with Geo-fencing, and they will be responsible for leaving the vehicles to the nearest station when they come out. In the balancing phase, micromobility tools will be collected from the designated areas (areas with less use) and brought to the intensive use areas and the usage rate of the tools will be increased. In addition, if the current number of bicycles of the Station is less than the optimal condition, the system will encourage the customer to another station according to the condition of the nearby

stations and the walking distance. At the virtual station stage, users will be able to leave their vehicles within the specified diameter. In this way, a regular and systematic parking spaces will be obtained and image pollution will also be prevented. At the payment system stage: Mobile Application will allow online subscription, payment by credit card, the use of public transport cards used within the city. In addition, there will be a Wallet feature in the mobile Application. In the IoT phase, information such as driving routes, duration, parking places, charging status of the vehicles will be analyzed with the IoT sensors in the vehicles and this information will be transferred to the end user and management software.

Development of Care Follow-up and Analysis Application System with Radio Frequency

Quality measurement and follow-up of the work carried out in the processes for patient care services carried out in hospitals, nursing homes and individuals' homes are carried out through the forms filled out by the currently responsible personnel. The system we want to develop will be able to measure whether the patient is visited by the caregiver at the relevant time within the scope of date and time information in order to provide an objective quality measurement and business process follow-up mechanism to the current procedure. The information obtained by the measurement to be carried out over different regions will be transmitted to a single center and/or to a large number of related centers. In the database applications in the centers, business processes and service quality of many regions can be evaluated and reported through measurement information.

The system we want to develop will be able to measure the patient's current condition. In this context, movements and status information such as falling, leaving the care area, whether there is a person other than the patient in the care area, etc. can be measured. In this context, the data obtained will be transmitted to the center and the patient control facility will be provided from a distance. The system we want to realize can be used as an objective follow-up and situation analysis mechanism with machine evaluation independent of human participation. The system will facilitate the follow-up of the works that take place in a large number and different regions. The evaluation will be carried out and reported in centers with real-time data transfer. In this context, there will be no commitment to the human factor in the evaluation and reporting processes.

There will be no use or storage of personal data in the operation of the system. The system will not need a sensor such as a camera, and personal data such as photographs and video images of the officer and the relevant patients will not be obtained and stored in any way. Our hospital information management system called "MIA-MED", which we have developed as MİA Teknoloji, is currently actively used by 11 university hospitals. We plan to integrate the system we plan to obtain within the scope of this project into our hospital management system.

Mia-Clinic

The patient participation approach adopted in our project idea development steps enables the development of health services and treatment process, better health outcomes, reduction of health service costs and determination of more effective health policies by activating the role of the individual in health services.

With the development of mobile health applications, the contribution of patient participation to health processes has also increased. Thus, users can carry out processes such as instant and fast access to health information, making an appointment, and talking to the doctor remotely through the application.

Within the scope of our project, users will access the personal health tracking application with the mobile application called MIA-MED Clinic.

Our application can also act as a guiding mechanism for chronic and metabolic (diabetes, high blood pressure, cardiovascular diseases, etc.) patients, who stand out as an effective tool in preventive health services and create the highest cost burden on the health system.

Production Estimation Model Development with Artificial Neural Networks for Renewable Power Plants

Wind turbines are devices that produce electrical energy by using wind energy sources. Wind turbines have different energy generation capacities depending on wind speed, turbine blade sizes and turbine height.

Wind speed is the most important factor determining the energy given to the turbine blades. Wind turbines generate less energy at low wind speeds while generating more energy at high wind speeds. However, excessively high wind speeds can lead to undesirable consequences, such as damage or stoppage of the turbines. Estimates for wind turbines are usually based on measurements of wind speed, wind direction, and other meteorological parameters. Analyses made with meteorological data are made based on the prediction of parameters such as weather forecasts, wind speed, wind direction and air temperature. These estimates are used to optimize turbine maintenance and power generation planning. They can also be used by automated control systems, which are used to improve the efficiency of wind turbines and prevent them from being damaged.

The project output product will be a platform that will create a feasibility report for the user by performing meteorological and geophysical analysis of the region in order to model the 15-day production forecast in renewable power plants. Storage systems, which are mandatory for renewable power plants, should be planned in the direction of meteorological data and grid stability. Since the project output has the ability to predict product production, it will determine the energy storage capacity of the power plant. Thus, the stability of the network will be optimized.

Maintenance and repair activities in renewable power plants are of great importance for energy providers in terms of cost and time. Since the project output product performs 15-day production forecast modeling, it will provide planned maintenance by informing the user when maintenance and repair activities should be carried out.

Development of Care Follow-up and Analysis Application System with Radio Frequency

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The system we want to develop will be able to measure the patient's current condition. In this context, movements and status information such as falling, leaving the care area, whether there is a person other than the patient in the care area, etc. can be measured. In this context, the data obtained will be transmitted to the center and the patient control facility will be provided from a distance.

The system we want to realize can be used as an objective follow-up and situation analysis mechanism with machine evaluation independent of human participation. The system will facilitate the follow-up of the works that take place in a large number and different regions. The evaluation will be carried out and reported in centers with real-time data transfer. In this context, there will be no commitment to the human factor in the evaluation and reporting processes. There will be no use or storage of personal data in the operation of the system.

The system will not need a sensor such as a camera, and personal data such as photographs and video images of the officer and the relevant patients will not be obtained and stored in any way. Our hospital information management system called "MIA-MED", which we have developed as MİA Teknoloji, is currently actively used by 11 university hospitals. We plan to integrate the system we plan to obtain within the scope of this project into our hospital management system.

Cloud Based Energy Monitoring and Asset Management Application Development Project

Energy demand is increasing day by day due to the increasing population, industrial investments and the increasing prevalence of electric vehicles. Considering climate change and the cost increases of fossil fuels, renewable power plants are the only way to meet energy demand.

Renewable energy-based electricity production varies depending on seasonal conditions and hours during the day. In order to overcome this supply variability, the number of energy storage systems that store grid electricity and can transfer it back to the grid when needed is increasing worldwide. Considering the general problems in renewable power plants, the following results were obtained:

• The focus is only on energy production,

• Inability to evaluate the system holistically due to insufficient analysis tools,

• Inability to monitor instantaneous energy production,

• Inadequate planning of the workforce due to the lack of advanced practices for maintenance and failures.

With the "Energy Monitoring and Asset Management of Solar Power Plants and Storage Solar Power Plants with Cloud-Based Application" project, it is aimed to develop an application that will increase the power plant efficiency that will overcome the above-mentioned problems. It will be a platform that digitizes the operation and maintenance processes in solar power plants, offering real-time monitoring and management, thus minimizing production losses. The application shall have the following features;

• Provide real-time monitoring of production plants on a single platform,

• It will offer a flexible system to the user with its structure independent of the brand and model.

• It will provide the user with the opportunity to customize the alarm and warning situations and take quick action on the events in the field,

• It will ensure that the user is kept up-to-date with periodic reports.

Following the successful development of the project, architectural and software technologies that allow the identification, integration and monitoring of Wind Power Plants (WPP), Storage WPP, Hybrid Generation Plants (WPP/spp/HPP/Storage), self-contained storage facilities and energy trade modules will also be prepared in Phase-2 phase.

- **Organizational Chart**

```
Yönetim Kurulu Başkanı
│
├── Yönetim Kurulu Üyesi
│       ├── Sağlık Bilişim Teknolojileri
│       ├── Teknoloji Geliştirme
│       ├── Sürükleyici Teknolojiler
│       ├── Bilgi Güvenliği ve İletişim Teknolojileri
│       └── Elektro Mobilite
│
├── İcra Kurulu Üyesi
│       ├── Ar-Ge ve Teşvik
│       ├── Uluslararası İş Gelişitirme ve Satış
│       ├── Yurt İçi İş Geliştirme ve Satış
│       │       ├── Kurumsal İletişim ve Marka Yönetimi
│       │       ├── Projelendirme ve Satın Alma
│       │       └── Planlama ve Strateji
│       ├── İhale ve Sözleşmeler Yönetimi
│       └── Yurt Dışı Temsilcilikleri
│
└── Yönetim Kurulu Üyesi
        ├── İnsan Kaynakları
        ├── Kalite ve Tesis Güvenlik
        ├── Borsa ve Yatırımcı İlişkileri
        ├── Mali İşler ve Tedarik
        └── İdari İşler
```

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5. OPERATING MARKETS/SECTORS

In the Information and Communication Technologies Sector report of Deloitte company dated June 2022, statistics in various fields such as artificial intelligence, deep learning, cyber security and metaverse were shared.

Artificial intelligence technologies reduce the human need with the development of programming systems in tasks such as decision-making, voice recognition, visual perception and language translation that require human guidance.

Although the software industry is a critical sector in itself, it has its main effect on other digital products and services that are affected by it. The size of other sectors such as games, digital transformation, and Gig Economy, which are affected by the software sector, is almost 4 times larger than the software sector and the average growth rate is approximately 3 times higher than the software sector. This makes digital industries a dynamic sector with a size of nearly 2.5 trillion dollars today.

Global yapay zeka pazar büyüklüğü, 2017-2028 (milyar USD)

YBBO %40

2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028
15	25	40	62	94	137	197	279	391	539	734	998
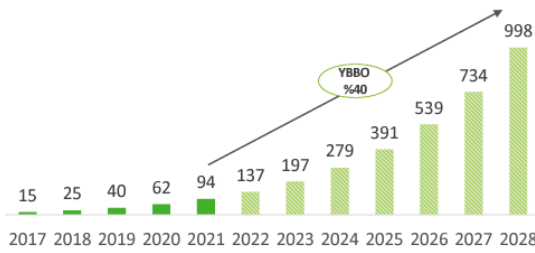
Global yapay zeka pazar büyüklüğü tahmini yıllık bileşik büyüme oranları, 2021-2028

%40 Tüm çözümler (donanım, yazılım, hizmetler)

%49 Yapay zeka hizmetleri

Büyüme oranı en yüksek yapay zeka çözümünün **hizmetler kategorisi** olacağı beklenmektedir.
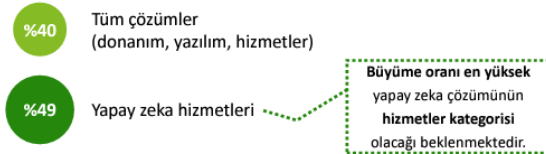
Global yapay zeka pazar büyüklüğünün sektörel payları ve dağılımı, 2021 (milyar USD)

- Diğer: 12,4 (13,3%)
- Hukuk: 3,2 (3,4%)
- Tarım: 6 (6,4%)
- Üretim: 8,5 (9,1%)
- Otomotiv ve taşımacılık: 9,5 (10,2%)
- Perakende: 9,9 (10,6%)
- Sağlık hizmetleri: 12,1 (12,9%)
- Finansal hizmetler: 15,9 (17,0%)
- Reklamcılık ve medya: 16 (17,1%)

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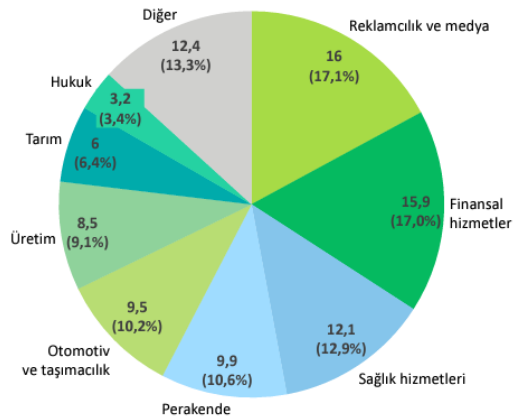
Deep learning is a sub-branch of machine learning using the concept of "neural networks" in the human brain. Deep neural networks aim to explore the complex relationships between input data and targeted outputs.

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Sinir ağları, *birbirine bağlanan katmanlardan* oluşur. *Gizli katman sayısının artışı* sistemin derinliğini artırır ve daha karmaşık bilgilerin işleme alınması sağlar:

Derin Öğrenme

	Analizi iletir	Veriyi işler	Veriyi toplar
	Çıktı katmanı	*Gizli katmanlar*	*Girdi katmanı*
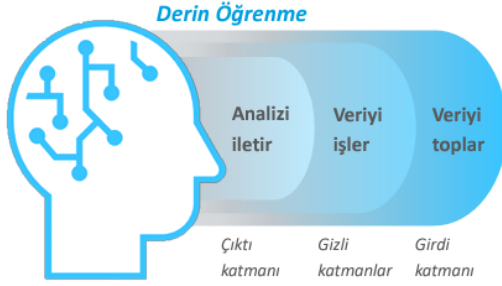
Derin öğrenme, ses, görsel, video benzeri **kompleks, zengin içerikli ve çoklu boyuta sahip büyük veri kümelerinin işlenmesinde** kullanılmaktadır.

Sektör oyuncularına etkileri nelerdir?
- Farklılaşmayı mümkün kılar, rekabet gücünü geliştirir.
- Operasyonel verimliliği artırır.
- Müşterileri ve çalışanları tutundurmayı sağlar.
- Yeni iş modellerinin ve operasyon modellerinin önünü açar.

Kullanım alanları nelerdir?
- Görsele dayalı ürün arama
- Müşteri iç görüleri sunan ekranlar oluşturulması
- Dolandırıcılık faaliyetlerinin tespit edilmesi
- Ticari ve yatırım amaçlı stratejiler geliştirilmesi

Dönüşümsel etki yaratma potansiyeline sahip kararlar için kullanılabilecek büyük miktarda veri olmasına rağmen, çoğu kurumun *verilerinin yalnızca % 1'inden daha azının kullanıldığı* tahmin edilmektedir.

https://www.tubisad.org.tr/tr/images/pdf/tubisad-bit-2021-tr-20220526.pdf

Digital reality offers a holistic experience to users through augmented, mixed and virtual reality technologies that are formed by centering people, using intuition and data, and changes how technology interacts.

Genişletilmiş Gerçeklik

Fiziksel Gerçeklik

Fiziksel gerçeklik, hiçbir dijital unsurun müdahalesi olmadan kişilerin kendi duyuları aracılığıyla çevresiyle etkileşimde bulunmasıdır.

Artırılmış Gerçeklik

Artırılmış gerçeklik, kullanıcının **gerçek dünyadaki ortamı üzerine dijitalde oluşturulmuş içerikleri** yansıtır.

Kullanıcı **kendisinin ve gerçek dış çevresinin farkındadır.**

Karma Gerçeklik

Dijital içeriklerin ve gerçek dünyayı kesintisiz şekilde karıştırarak **her iki ortamın birlikte var olduğu ve etkileşimde bulunduğu** bir deneyim sunar.

Boyutsal farkındalık ve mimik tanıma için **gelişmiş sensörler** kullanır.

Sanal Gerçeklik

Sanal gerçeklik **gerçek dünyanın yerini alan kapalı dijital ortamlar** yaratır.

Kullanıcıların **vücudunu ve hareketlerini takip ederek** dijital ortamdaki etkileşimini sağlar.

https://www.tubisad.org.tr/tr/images/pdf/tubisad-bit-2021-tr-20220526.pdf

Digital reality, as a result of the combination between the real world and the digital world, reveals various areas of use and offers product and service providers the opportunity to change many experiences of users, from the way they do business to entertainment.

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Bağlantı

Kullanıcıların aynı konumda bulunmadan uzaktan iletişim kurmasını, etkileşimde bulunmasını ve iş birliği yapmasını sağlar.

Saha hizmetleri
Onarım ve teşhis
Ekipman kurulumu
Holo-varlık

Bilgi

Profesyonellerin verileri ve kaynakları daha çeşitli ve etkin kullanmasını sağlayarak mevcut iş yapış şekillerini dönüştürür.

Mimarlık
Bakım ve onarım
Tasarım
Tıbbi bilimler

Öğrenim

Eğitim, analitik işlemler ve araştırma deneyimini daha ilgi çekici hale getirir, gereken süreyi kısaltır, riski ve maliyeti düşürür.

İmersif eğitim
Güvenlik ve uyum
Oyunlaştırma
Davranışsal analitik

Keşif

Zamandan ve konumdan bağımsız olarak tüketicilere ürün ve hizmetlerin keşif yolculuğuna çıkma imkanını sunar.

Turizm ve konaklama
Mağaza içi deneyim
Artırılmış gerçeklikle alışveriş

Eğlence

Dijital ve gerçek dünyayı bir araya getirerek yeni içeriklerin oluşturulup kullanıcılarla buluşturulmasını mümkün kılar.

Canlı etkinlikler
Hikaye anlatımı
Oyun
360 deneyim

https://www.tubisad.org.tr/tr/images/pdf/tubisad-bit-2021-tr-20220526.pdf

As a result of the pandemic, the rapidly digitalized institutions and sectors need more augmented reality, mixed reality and virtual reality applications, and the market is expected to grow.

Global sanal gerçeklik ve artırılmış gerçeklik pazar büyüklüğü, 2020-2024

73 milyar USD
2024

YBBO %57

12 milyar USD
2020
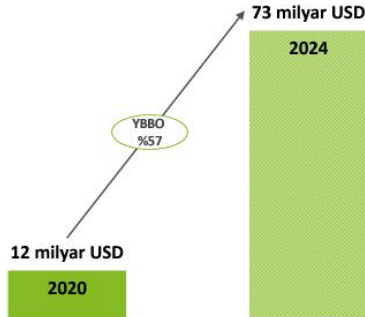
Global sanal gerçeklik ve artırılmış gerçeklik pazar paylarının sektörel dağılımı, 2021

Altyapı %3
Diğer %2
Kamu Sektörü %13
Üretim ve Kaynaklar %14
Tüketici Ürünleri ve Hizmetleri %53
Dağıtım ve Hizmetler %16

https://www.tubisad.org.tr/tr/images/pdf/tubisad-bit-2021-tr-20220526.pdf
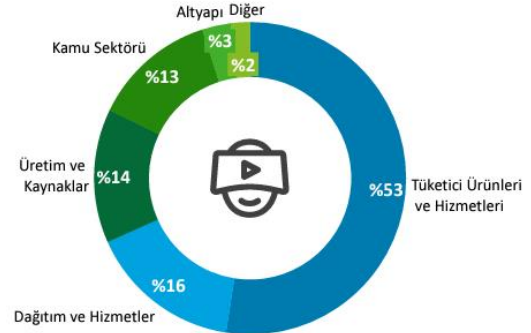
The metaverse is the concept of the future that emerged as a result of the formation of the internet as a digital copy of the physical world. The Metaverse is a world design that simulates interconnected

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virtual   experiences.

Kullanıcı Davranışları

Sanal platformlar

Ağ

Araçlar ve
standartlar

İşlemci

Ödeme
hizmetleri

Donanım

İçerik, hizmetler
ve varlıklar

M E T A V E R S E

Pazar fırsatına sahip olan
başlıca sektörler

- Oyun
- Turizm
- Eğitim
- E-ticaret
- Emlak Piyasası
- Eğlence, Sanat ve Spor
- Medya ve Reklamcılık
- Yazılım ve Uygulama
  Geliştirme

Metaverse'ten elde edilebilecek global gelir fırsatlarının
2024 yılına kadar 800 milyar dolara ulaşacağı tahmin edilmektedir.

https://www.tubisad.org.tr/tr/images/pdf/tubisad-bit-2021-tr-20220526.pdf

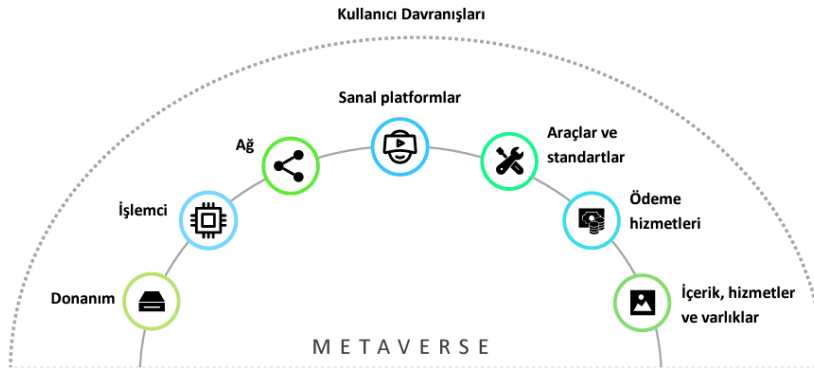Due to the increasing and changing tactics of cyber attackers, cybersecurity and data privacy have become a growing concern for companies of all sizes. Due to the low level of awareness and inadequate protection practices of organizations, systems and stored information can become vulnerable to attack.

~ %28,3

Siber güvenlik açıkları, 2016-2021 yılları arasında %28,3 seviyesinde yıllık ortalama büyüme oranında artış göstermiştir.

>40 milyar

2021 yılında dünya çapında gerçekleşen **veri ihlali vakaları**nın 40 milyarı geçtiği tahmin edilmektedir.

4,24 milyon $

Veri ihlallerinin maliyeti 3,86 milyon dolardan 4,24 milyon dolara yükselerek raporlanan 17 yılın tarihi zirvesine ulaşmıştır.

Global bilgi güvenliği ve risk yönetimi harcamaları, 2021-2026 (milyar USD)

2021	133
2026	223

YBBO %11

Global tüketici gizlilik hakları erişimi, 2021-2023 (milyar kişi)

2021 itibariyle 50 farklı ülkede **~3 milyar kişi**nin erişimi mevcuttur.

2023 itibariyle, küresel GSYİH'nin %70'inden fazlasını oluşturan **~5 milyar kişi**nin ücretsiz olarak erişeceği öngörülmektedir.

https://www.tubisad.org.tr/tr/images/pdf/tubisad-bit-2021-tr-20220526.pdf

Increasing digitalization not only puts the data of corporations at risk, but also their physical and intellectual property, business processes and human resources, and exposes corporations to a new generation of cyber-physical dangers.

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Siber Fiziksel Sistemler (SFS), fiziksel dünya ile sanal dünya arasında algılama, hesaplama, kontrol etme, ağ yönetimi ve analitik konularında **bağlantı kurar**.
Güvenli bağlantılar; **eş zamanlı, güvenilir bilgiler** ve **dayanıklı sistem performansı** elde edilmesini sağlar.

https://www.tubisad.org.tr/tr/images/pdf/tubisad-bit-2021-tr-20220526.pdf

In 2021, the global ICT market grew by 13% to $4.3 trillion, while the information technology market grew by 25.7% and the communications technology market by 1.4%.

https://www.tubisad.org.tr/tr/images/pdf/tubisad-bit-2021-tr-20220526.pdf
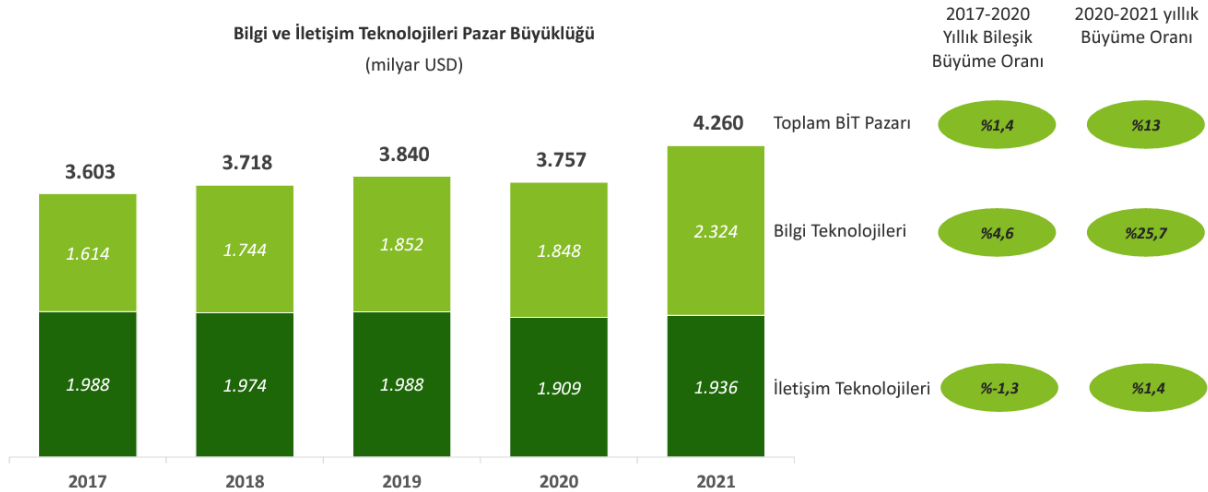
The global ICT market is expected to grow by 4% to reach $4.4 trillion in 2022 and to grow by 6.1% annually to reach $5.6 trillion in 2026.

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Gelecek Beklentileri

Jeopolitik, ekonomik belirsizliklerin ve tedarik zincirindeki aksamaların esnek ve çevik çözümlere olan harcamaları artırması

Dijitalleşme odağının yükselmesiyle şirketlerin dijital dönüşümü stratejik öncelik olarak konumlandırması

Analitik, bulut bilişim, dijital müşteri deneyimi ve güvenlik çözümleri vb. yükselen teknolojilere olan ilginin yükselmesi

Uzaktan çalışmanın kalıcılaşması ve toplam çalışanların %50'den fazlasının 2024 yılında uzaktan çalışmaya geçmesinin beklenmesi

Bilgi ve İletişim Teknolojileri Pazar Büyüklüğü

(milyar USD)

YBBO % 6,1

	2022	2023	2024	2025	2026	
Toplam BİT Pazarı	4.432	4.674	4.973	5.292	5.613	
Bilgi Teknolojileri	2.469	2.661	2.905	3.167	3.440	
İletişim Teknolojileri	1.963	2.012	2.068	2.125	2.173	

https://www.tubisad.org.tr/tr/images/pdf/tubisad-bit-2021-tr-20220526.pdf

6.   DEVELOPMENT AS OF THE SECOND QUARTER OF 2023

- The application for the Charging Network Operator License for the establishment and operation of charging units for electric vehicles by our subsidiary Tripy Mobility Teknoloj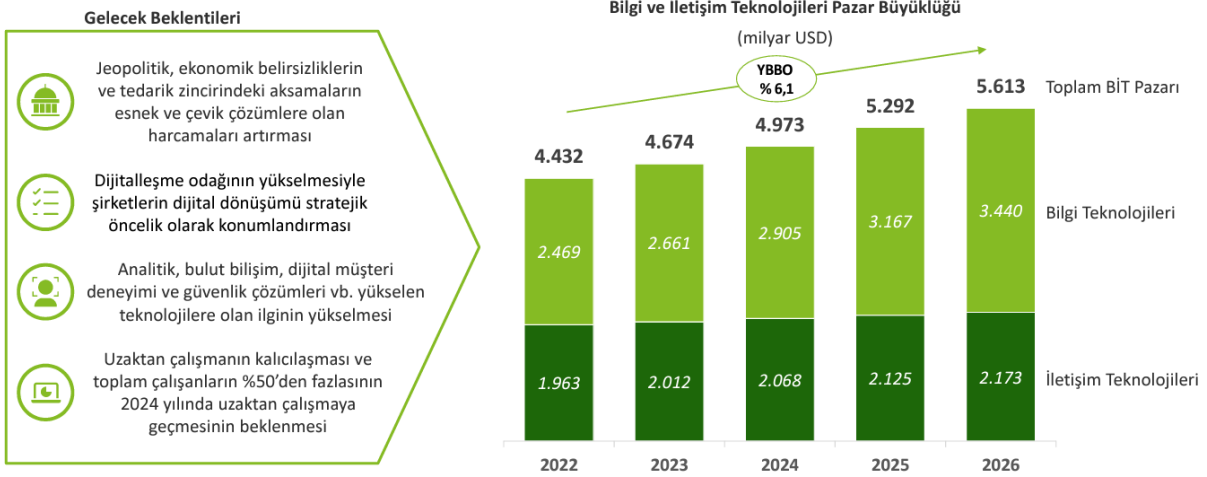i A.Ş. was approved by EMRA as of 05.01.2023 and entered into force until 05.01.2072 with the license number ŞH/11541-3/00080.

- Our "Radio Frequency Care Follow-Up and Analysis Application System" project developed by our company's R&D unit has been approved by Gazi University Technopark Management.
  The content of the project is the Radio Frequency Care Follow-Up and Analysis Application System, which allows real-time patient care follow-up and patient status analysis by measuring human movements and locations in places where sick and elderly people are located.

- Within the framework of the technology-oriented investment policy of our subsidiary TRIPY Mobility, the first investment of 138.998 Euro was made for R&D and development processes in order to serve in different regions of Türkiye within the scope of the "Charging Stations for Electric Vehicles" investment, which it plans to make to meet the charging needs of electric vehicles with high potential and increasing use today. Within the scope of Smart and Environmental City Model Systems, software is being developed within the company in order to provide transportation to electric vehicle charging stations, to make payments and reservations, to add new charging stations, and to offer the opportunity to benefit from various campaigns, and it is aimed to be a service provider in this field and to be among the companies in the role of system operator in Türkiye.

- With its decision dated 28.03.2023 and numbered 2023/12 and taking the opinion of the Audit Committee, our Board of Directors decided to select Karar Bağımsız Denetim A.Ş. to audit the financial reports of our Company in the accounting period of 01.01.2023-31.12.2023 and to carry out other activities within the scope of the relevant regulations in these laws in accordance with the principles determined in accordance with the Turkish Commercial Code No. 6102 and the Capital Markets Law No. 6362.

- A 10-year protocol has been signed between our subsidiary Tripy Mobility Teknoloji A.Ş. and Kütahya Municipality for the Establishment and Operation of the Electric Bicycle Sharing System.

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- With our Shared Electric Vehicle Projects, it is aimed to reduce the carbon footprint and contribute to the environmentally friendly, economical, sustainable and greener world ecosystem.

- As MİA Teknoloji, a 10-year protocol was signed between our subsidiary Tripy Mobility Teknoloji A.Ş. and Bursa Nilüfer Municipality for the Establishment and Operation of the Electric Bicycle Sharing System. Bursa province ranks 4th in terms of Türkiye's population and is one of our local governments that stands out with its environmental and urban conditions suitable for the use of electric bicycles.

- Our company received an order of USD 519,556.48 to provide products and services within the scope of Security Technologies and Communication infrastructure in the ongoing TAPI-Turkmenistan Afghanistan Pakistan and India natural gas pipelines project in Turkmenistan.

- As MİA Teknoloji, a 10-year protocol was signed between our subsidiary Tripy Mobility Teknoloji A.Ş. and Sakarya Metropolitan Municipality for the Establishment and Operation of the Electric Bicycle Sharing System. Sakarya, with the approval of the International Cycling Union (UCI), was entitled to receive the title of Türkiye's first and only 'Bicycle Friendly City', the 13th in the world, in 2021, and is one of our local governments with different perspectives on the importance it attaches to cycling and the dissemination of bicycle use.

- With the decision of the Board of Directors numbered 2023/16 of our company, to carry out business development and sales activities in the developing North African market; to carry out joint studies in Morocco, Algeria, Tunisia and other African countries and to start R&D projects with local universities in the region; with the trade name "Mia TURTEK AFRIK" in the Kingdom of Morocco, a branch of MİA Teknoloji A.Ş. has been established.

- A new company has been established by our company with the title of ENERJEY ENERJİ A.Ş. in partnership with 70% MİA TEKNOLOJİ A.Ş. and 30% RENSOL ENERJİ A.Ş. in order to operate and make investments in the field of energy.

- As MİA Teknoloji, a 5 +5-year protocol was signed between our subsidiary Tripy Mobility Teknoloji A.Ş. and Balıkesir Metropolitan Municipality for the Establishment and Operation of the Electric Bicycle Sharing System.

7.   INCENTIVES BENEFITED BY THE COMPANY

The company benefits from Technocity and R&D support and other incentives of SSI. Various incentives and advantages benefited by the Company are realized within the scope of the following Laws;

Law No. 5746 on the Support of Research, Development and Design Activities; The purpose of this Law is to support and encourage the production of technological information, innovation in product and production processes, increase in product quality and standard, increase in efficiency, decrease in production costs, commercialization of technological information, development of pre-competitive cooperation, technology-intensive production, entrepreneurship and investments in these areas, acceleration of the entry of foreign direct investment in R&D, innovation and design, and increase in R&D and design personnel and qualified labor employment in order to make the country's economy internationally competitive through R&D, innovation and design. Within the scope of this Law, all R&D and innovation expenditures are taken into account as a discount until 31.12.2028 in determining the corporate income subject to tax. However, there is an Income Tax Withholding incentive for all R&D

personnel and up to 10% of support personnel. There is also Stamp Duty Exemption and Insurance Premium support.

Social Insurance and General Health Insurance Law No. 5510; the purpose of this Law is to secure the persons in terms of social insurance and general health insurance; to determine the persons who will benefit from these insurances and the rights to be provided, the conditions of benefiting from these rights and the methods of financing and meeting them; to regulate the procedures and principles related to the operation of social insurance and general health insurance. The amount of 5% of the employer's share from the premiums for disability, old age and death insurances of private sector employers employing insured persons within the scope of subparagraph (a) of the first paragraph of Article 4 of this Law shall be covered by the Treasury.

5-POINT DISCOUNT INCENTIVE

LEGAL BASIS: Subparagraph (i) of paragraph 1 of Article 81 of Law No. 5510, Circulars No. 2008/93 – 2009/139 – 2011/45.

Document Number: 5510

The relevant Incentive was started to be implemented on 01.10.2008. It is still in force and applied in our workplace.

Employers in the private sector can receive an incentive equal to five points on the employer's share of invalidity, old-age, and survivors insurance premiums calculated over the insured's premium earnings for the insured.

- The monthly premium and service certificate / concise and premium service declaration has been submitted within the legal time limit,
- Premiums have been paid within the legal period,
- No premiums, administrative fines, and related delay increment and penalty debts, if any, have been structured in installments and are paid regularly,
- Not employing unregistered insured / not making false insured notification,
- The employer is not one of the institutions and organizations within the scope of the second paragraph of Article 30 of the Law No. 5335,
- The work done should not be one of the procurement and construction works within the scope of LawsNo. 2886, 4734 and Article 3 of Law No. 4734 or pursuant to international agreements,

INCENTIVE FOR THE EMPLOYMENT OF DISABLED INSURED PERSONS

LEGAL BASIS Article 30 of the Labor Law No. 4857, Circular No. 2008/77.

Document Number: 14857

The relevant Incentive was started to be implemented on 01.07.2008. It is still in force and applied in our workplace.

For disabled insured workers employed in privately owned workplaces, the Ministry of Treasury and Finance has made available the option of covering the entire insurance premium employer's share calculated above the lower limit of earnings subject to premium.

CONDITIONS FOR BENEFITING FROM THE INCENTIVE

- Employers must employ insured persons with disabilities,
- Monthly premium and service certificate has been given to the Authority within the legal period,
- Premiums have been paid
- This incentive cannot be used due to the insured and candidate apprentices, apprentices and students who work subject to social security support premiums, who work subject to community insurance, who work abroad.
- The 5-point discount is calculated over the PEK (gross income) and the remaining 15.5% employer share is calculated over the minimum wage.

INCENTIVE FOR RESEARCH, DEVELOPMENT AND DESIGN ACTIVITIES

LEGAL BASIS: Article 3 of the Law No. 5746 on Supporting Research, Development and Design Activities, Circulars No. 2008/85 – 2009/21.

Document Type: 5746-15746

The relevant Incentive started to be implemented on 01.07.2008. It will end on 31.12.2028 and is implemented in our workplace.

REMARKS: Half of the insurance premium calculated over the wages of the R&D/Design and support personnel and the personnel whose wages are exempt from income tax in accordance with the provisional Article 2 of the Law No. 4691 is covered by the allowance to be put into the budget of the Ministry of Treasury and Finance until 31/12/2028.

CONDITIONS FOR BENEFITING FROM THE INCENTIVE

- The monthly premium and service certificate / concise and premium service declaration has been submitted within the legal time limit, premiums have been paid,
- Actual work of the insured,
- The insured is; R&D/Design personnel or support personnel provided that 10% of the number of R&D personnel is not exceeded or personnel whose wages are exempted from income tax in accordance with the Law No. 4691.
- The 5-point discount and half of the remaining 15.5% employer's share (7.75%) are calculated over PEK.

8. QUALIFICATION, CERTIFICATION AND REGISTRATION DOCUMENTS OF THE COMPANY

S.N	DOCUMENT TITLE	ISSUED BY	ISSUE DATE	EXPIRATION DATE

1	9001:2015 QUALITY MANAGEMENT SYSTEM	QSI	01.04.2022	19.04.2024
2	14001:2015 ENVIRONMENTAL MANAGEMENT SYSTEM	QSI	01.04.2022	19.04.2024
3	45001:2018 OCCUPATIONAL HEALTH AND SAFETY MANAGEMENT SYSTEM	QSI	09.12.2022	11.01.2024
4	ISO/IEC 27001 INFORMATION SECURITY MANAGEMENT SYSTEM	QSI	09.12.2022	06.12.2023
5	MILITARY FACTORIES APPROVED SUPPLIER CERTIFICATE	MSB (MINISTRY OF NATIONAL DEFENSE) / AFGM (GENERAL DIRECTORATE OF MILITARY FACTORIES)	10.09.2019 16.12.2021	16.12.2026
6	FACILITY SECURITY CERTIFICATE (NATIONAL CONFIDENTIAL)	MoD	2018	31.12.2023
7	NATO SECURITY DOCUMENT (NATO CONFIDENTIAL)	MoD / MoF	05.12.2018	05.12.2023
8	AFTER-SALES SERVICE QUALIFICATION CERTIFICATE	MINISTRY OF COMMERCE	02.08.2022	02.08.2024
9	CERTIFICATE OF SERVICE COMPETENCY	TSE (TURKISH STANDARDS INSTITUTE)	09.09.2008	10.09.2023
10	CAPACITY REPORT	ANKARA CHAMBER OF INDUSTRY / UCCET	15.03.2022	15.03.2024
11	TS ISO / IEC 15504 SPICE ORGANIZATIONAL MATURITY CERTIFICATE LEVEL 2	ICT CERTIFY	29.04.2022	29.04.2025
12	20000-1 INFORMATION TECHNOLOGIES SERVICE MANAGEMENT SYSTEM	QSI	09.12.2022	09.12.2023
13	ISO 22301 BUSINESS CONTINUITY MANAGEMENT SYSTEM	QSI	01.04.2022	19.04.2024
14	ISO 39001:2012 ROAD TRAFFIC SAFETY MANAGEMENT SYSTEM	QCS	03.06.2022	02.06.2023
15	ISO 10002-2018 CUSTOMER SATISFACTION MANAGEMENT SYSTEM	QSI	28.11.2022	28.11.2023

GENERAL DIRECTORATE OF COPYRIGHT REGISTRATION DOCUMENTS				
17	REGISTRATION CERTIFICATE FOR COMPUTER PROGRAMS	MINISTRY OF CULTURE AND TOURISM	23.12.2019	INDEFINITE
18	Augmented Reality Based Mobile Application for Informative Product Content	MINISTRY OF CULTURE AND TOURISM	20.08.2021	INDEFINITE

19	Integrated Modern Health Informatics Layers	MINISTRY OF CULTURE AND TOURISM	20.08.2021	INDEFINITE
20	VR (Virtual Reality) Based Training System for Safe On-the-job Training Processes	MINISTRY OF CULTURE AND TOURISM	20.08.2021	INDEFINITE
21	Fast and Secure Biometric Authentication System	MINISTRY OF CULTURE AND TOURISM	20.08.2021	INDEFINITE
22	Personalized Medical Cabinet Project	MINISTRY OF CULTURE AND TOURISM	20.08.2021	INDEFINITE
23	Automatic Exam Evaluation System with Machine Learning and Natural Language Processing Techniques	MINISTRY OF CULTURE AND TOURISM	20.08.2021	INDEFINITE
24	Mask Detection and Temperature Measurement Feature Person Recognition System	MINISTRY OF CULTURE AND TOURISM	20.08.2021	INDEFINITE
25	MİA Vehicle Identification Solutions	MINISTRY OF CULTURE AND TOURISM	20.08.2021	INDEFINITE
26	MİA HealthCare	MINISTRY OF CULTURE AND TOURISM	20.08.2021	INDEFINITE
27	MİA HEALTH INTEGRATION SYSTEM	MINISTRY OF CULTURE AND TOURISM	20.08.2021	INDEFINITE
28	MIA-HYGIENE GATE	MINISTRY OF CULTURE AND TOURISM	20.08.2021	INDEFINITE
29	Mobile Multiple Biometric Recording Unit Development	MINISTRY OF CULTURE AND TOURISM	20.08.2021	INDEFINITE
30	Virtual Experience for Museums - V-Rex	MINISTRY OF CULTURE AND TOURISM	20.08.2021	INDEFINITE
31	Multi Biometric Person Recognition System with Remote Temperature Measurement	MINISTRY OF CULTURE AND TOURISM	20.08.2021	INDEFINITE
32	AR-based Remote Maintenance System for Remote Field Support Activities	MINISTRY OF CULTURE AND TOURISM	20.08.2021	INDEFINITE
33	Facial Recognition and Matching System Created with Native Image Processing and Pattern Recognition Algorithms	MINISTRY OF CULTURE AND TOURISM	20.08.2021	INDEFINITE

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9. OTHER SIGNIFICANT INFORMATION

9.1 Related party procedures

In line with the purpose of these financial statements, the shareholders, senior managers and members of the Board of Directors, their families and companies controlled by or affiliated with them, associates and partnerships are accepted and referred to as "related parties". The Group has carried out transactions with related parties during the period due to ordinary activities and details are available in the Independent Audit Report.

9.2 Dividend Policy

Article 13 of the Articles of Association of the Company The determination and distribution of the profit is made in summary as follows;

After deducting the amounts required to be paid or reserved by the Company such as general expenses of the Company and various depreciation and the taxes required to be paid by the Company legal entity from the revenues determined at the end of the Company's operating period, the remaining net profit for the period and the net profit seen in the annual balance sheet, if any, are distributed after deducting the losses of the previous year, respectively, as shown below:

a) Until reaching 20% of the capital, 5% is allocated to the legal reserve.

b) The first dividend is allocated from the remaining amount to be found with the addition of the donation amount made within the year, if any, in accordance with the Turkish Commercial Code and capital market legislation within the framework of the Company's profit distribution policy.

c) After the above reductions are made, the general assembly has the right to decide whether the profit share is to be distributed to the members of the board of directors, the employees of the Company, persons other than the shareholder.

d) After deducting the amounts specified in paragraphs (a), (b) and (c) from the net profit for the period, the general assembly is authorized to distribute the remaining part as a second dividend in whole or in part or to allocate it as a reserve fund that it has voluntarily allocated in accordance with Article 521 of the Turkish Commercial Code.

e) 10% of the amount found after deducting the dividend at the rate of 5% of the capital from the portion decided to be distributed to the shareholders and other persons participating in the profit is added to the general legal reserve in accordance with paragraph 2 of Article 519 of the Turkish Commercial Code.

9.3 Information About the Financial Risk Management Policy

The Company's most important risks arising from its financial instruments are interest rate risk, liquidity risk and credit risk.

Capital Risk Management

In capital management, the Company strives to ensure the continuity of its operations while at the same time it aims to increase profit by using the balance of debt and shareholder's equity in the most efficient manner.

The company monitors the capital using the debt/total capital ratio. This ratio is calculated by dividing net debt by total capital. Net debt is calculated by deducting cash and carry-forward similar values from the total debt amount (including trade and other payables as shown in the balance sheet). Total capital is calculated by collecting equity and net debt as shown in the balance sheet.

Credit Risk

Credit risk is the risk that the other party will suffer a financial loss as a result of the failure of one of the parties in a mutual relationship to fulfill its obligations regarding a financial instrument. It tries to manage the credit risk by limiting the transactions deviated from certain parties and by continuously evaluating the reliability of the parties with whom it is related.

Liquidity Risk

Liquidity risk is the probability of failure to meet net funding obligations. The occurrence of incidents resulting from the decrease in fund sources such as the deterioration in markets or decreasing the credit score cause liquidity risk to occur. The Company management manages the liquidity risk by allocating funding resources and maintaining sufficient cash and cash equivalents in order to fulfil its current and probable obligations.

Interest Rate Risk

Interest rate risk arises from the probability that changes in interest rates affect the financial statements. The Company is exposed to interest rate risk due to the timing differences of assets and liabilities that will come to maturity in a certain period. Currently there is no company-defined risk management model or active application. In addition to not having a defined risk management model, the management of the company manages the risks through its own decisions and practices.

9.4 Information on Legislation Changes That Will Significantly Affect Company Activities

There are no legislative changes that will significantly affect the activities of our Company within the period of 01.01.2023-30.06.2023.

9.5 Significant Incidents that Occured in the Reporting Period and Needed to be Reported

None.

9.6 Events from the Reporting Period to the Publication Date

None.

9.7 Remarks Regarding the Private Audit and Public Audit Conducted During the Fiscal Period

There are no private audits and public audits carried out between 01.01.2023-30.06.2023 during the accounting period.

9.8 Information on Lawsuits Filed Against the Company, Which May Affect the Company's Financial Status and Activities, and Their Possible Consequences

There are no lawsuits and possible results filed on behalf of our company that may affect the financial status and activities of the company.

9.9 Administrative or Judicial Sanctions Imposed on the Company and Members of the Managing Body Due to Practices in Violation of Legislation

Due to practices contrary to the provisions of the legislation, there are no administrative or judicial sanctions imposed on the company and the members of the management body in the relevant accounting period.

9.10 If an Extraordinary General Assembly Meeting was held within the Period, Information on the Assembly Including the Date of the Meeting, the Decisions Taken at the Meeting and the Related Transactions

There is no Extraordinary General Assembly Meeting held within the period of 01.01.2023-30.06.2023.

9.11 Donations and Aids Made by the Company During the Period and Expenditures Made within the Framework of Social Responsibility Projects

There are 1.853.249-TL expenditures made by our company within the framework of donations and aids and Social Responsibility Projects within the period of 01.01.2023-30.06.2023.

9.12 Own Shares Acquired by the Company

The corporation does not have any acquired shares.

9.13 Conflicts of Interest between the Company and the Institutions It Receives Services in Matters such as Investment Consultancy and Rating

The company does not have any services received from investment consultancy and rating agencies.

10. CONSOLIDATED FINANCIAL SITUATION TABLE AS OF 30.06.2023

MİA TEKNOLOJİ ANONİM ŞIRKETI consolidated financial situation as of 30.06.2023 (Amounts are expressed in Turkish Lira (TL) unless otherwise stated.)

	Footnote No	30.06.2023	31.12.2022
ASSETS			
Current Assets		**530.195.109**	**389.510.000**
Cash and Cash Equivalents	3	94.313.240	175.955.632
Financial Investments		1.100.500	-
Trade Receivables	5	378.397.294	171.850.920
-Trade Account Receivables Due From Affiliates		*68.945*	*-*
- Trade Accounts Receivables Due From Non-affiliated Parties		*378.328.349*	*171.850.920*
Other Receivables	7	3.715.404	2.893.143
- Other Receivables Due From Non-affiliated Parties		*3.715.404*	*2.893.143*
Inventories	8	13.036.260	7.691.260
Prepaid Expenses	14	31.994.735	30.581.975
-Related Party		*76.000*	*-*
- Other		*31.918.735*	*30.581.975*
Other Current Assets	15	7.637.676	537.070
Fixed Assets		**522.145.560**	**361.241.923**
Real Estate For Investment Purposes	10	11.200.000	11.200.000
Tangible Fixed Assets	11	22.222.366	3.545.907
Usufructary Right Assets	9	2.426.924	2.996.655
Intangible Fixed Assets	12	482.266.669	340.058.857
- Capitalized Development Costs		*476.340.744*	*334.232.035*
- Other Intangible Fixed Assets		*5.925.925*	*5.826.822*
Deferred Tax Asset	17	4.029.601	3.440.504
Total Assets		**1.052.340.669**	**750.751.923**

	Footnote No	30.06.2023	31.12.2022
RESOURCES			
Short-Term Liabilities		**284.261.411**	**166.574.266**
Short Term Borrowings	6	72.717.725	58.763.096
1- Bank Loans		*71.537.801*	*58.057.756*
Lease Transactions Payables		*1.179.924*	*705.340*
Short Term Portions of Long Term Borrowings	6	21.015.998	16.036.499
Trade Payables	5	132.820.999	82.867.309
- Trade Payables to Non-Affiliated Parties		*132.820.999*	*82.867.309*
Debts Under the Scope of Employee Benefits	16	4.765.398	2.334.288
Other Payables		12.574	-
Deferred Incomes	14	33.717.697	5.391.268
Period Profit Tax Liability	17	-	258.456
Short-term Provisions		1.131.566	789.205
-Provisions for Employee Benefits	16	*881.807*	*539.446*
- Other Short Term Provisions	13	*249.759*	*249.759*
Other Short Term Liabilities	15	18.079.454	134.145
Long-Term Liabilities		**9.721.174**	**8.420.362**
Long Term Borrowings	6	1.861.021	3.558.067
1- Bank Loans		*913.288*	*1.258.510*
Lease Transactions Payables		*947.733*	*2.299.557*
Long-term Provisions	16	7.860.153	4.862.295
-Provisions for Employee Benefits		*7.860.153*	*4.862.295*
Equities		**758.358.084**	**575.757.295**
Paid-in Capital	18,25	38.000.000	38.000.000
Premiums on Shares (Discounts)		116.667.204	116.667.204
Other Accumulated Comprehensive Income and Expenses not to Be Reclassified in Profit or Loss		(2.005.170)	(1.584.776)

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Defined Benefit Plans Re-measurement Profits/ (Losses)	*(2.005.170)*	*(1.584.776)*
Reserves on Retained Earnings	8.700.172	2.932.507
Past Years Profit	413.974.695	89.088.307
Net Profit for the Period	182.963.864	330.654.053
Non- controlling interests	**57.319**	**-**
Total Resources	**1.052.340.669**	**750.751.923**

11. CONSOLIDATED COMPREHENSIVE INCOME STATEMENT AS OF 30.06.2023

Comprehensive Income Statement	Notes	01.01.2023 01.06.2023	01.01.2022 30.06.2022	01.04.2023 30.06.2023	01.04.2022 30.06.2022
Revenue	19	451.407.005	186.302.725	259.043.659	124.881.268
Cost of Sales (-)	19	(215.351.624)	(75.877.524)	(133.878.124)	(39.783.498)
Gross Profit		**236.055.381**	**110.425.201**	**125.165.535**	**85.097.770**
					-
General Administrative Expenses (-)	20	(51.844.733)	(8.247.477)	(43.793.982)	(5.061.130)
Other Real Operating Income	21	424.108	438.205	56.365	280.991
Other Real Operating Expenses (-)	21	(1.495.785)	-	(1.470.367)	-
Real operating profit		**183.138.971**	**102.615.929**	**79.957.551**	**80.317.631**
					-
Revenue From Investment Activities	22	8.237.706	576.271	8.207.198	576.271
Operating Profit Before Financing Expense		**191.376.677**	**103.192.200**	**88.164.749**	**80.893.902**
					-
Financing Income	23	15.514.926	16.532.217	10.892.291	6.267.111
Financing Expenses (-)	24	(24.201.311)	(14.049.933)	(14.846.634)	(5.888.645)
Pre-Tax Profit		**182.690.292**	**105.674.484**	**84.210.406**	**81.272.368**
					-

AI-powered Solutions

		01.01.2023	01.01.2022	01.04.2023	01.04.2022
Tax - Income	17	**255.891**	**1.347.445**	**7.845.212**	**95.591**
Tax Expense of the Period	17	(228.107)	(309.576)	(228.107)	(150.558)
Deferred Tax İncome	17	483.998	1.657.021	8.073.319	246.149
Net Profit for the Period		**182.946.183**	**107.021.929**	**92.055.618**	**81.367.959**
					-
Earnings Per Share		**4,8148**	**2,8164**	**0,4436**	**2,1413**
					-
Profit/(loss) distribution for the period		182.946.183	107.021.929	92.055.618	81.367.959
Non- controlling interests		*(17.681)*	*-*	*(17.681)*	*-*
Parent Company Shares		*182.963.864*	*107.021.929*	*92.073.299*	*81.367.959*
					-

	01.01.2023	01.01.2022	01.04.2023	01.04.2022
Other Comprehensive Income Statement	**01.06.2023**	**30.06.2022**	**30.06.2023**	**30.06.2022**
				-
Net Profit for the Period	**182.946.183**	**107.021.929**	**92.055.618**	**81.367.959**
				-
Not to be Reclassified to Profit or Loss	**(420.394)**	**(283.003)**	**949.687**	**(594.117)**
Defined Benefit Plans Re-measurement Profits/Losses	(525.493)	(367.536)	1.118.604	(790.963)
Tax Income/Expense Related to Other Comprehensive Income Items not to be Reclassified to Profit or Loss	105.099	84.533	(168.917)	196.846
				-
Other Comprehensive Income (After Tax)	**(420.394)**	**(283.003)**	**949.687**	**(594.117)**
				-
Total Comprehensive Income	**182.525.789**	**106.738.926**	**93.005.305**	**80.773.842**
Distribution of Total Comprehensive Income	182.525.789	106.738.926	93.005.305	80.773.842

AI-powered Solutions

Non- controlling interests	-	-	-	-
Parent Company Shares	*182.525.789*	*106.738.926*	*93.005.305*	*80.773.842*

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MİA TEKNOLOJİ ANONİM ŞİRKETİ Consolidated comprehensive income statement as of 30.06.2023 (Unless otherwise stated, the amounts are expressed in Turkish Lira (TL).)

This report has been prepared in accordance with the provisions of the "Regulation on the Determination of the Minimum Content of the Annual Activity Report of Companies" published by the Ministry of Trade in the Official Gazette dated 28.08.2012 and numbered 28395.

Your sincerely,

Ali Gökhan BELTEKİN
Chairperson of the Board

Özgür ÇİVİ
Independent Board Member

30.07.2023

İhsan ÜNALY
Deputy Chairperson of the
Board of Directors

Ali YAZICI
Independent Board Member

Mehmet Cengiz BAĞMANCI
Board Member