

- Industrial Automation
- Building Automation Systems
- Industrial IT Systems
- Panel Design, Production & Field Application



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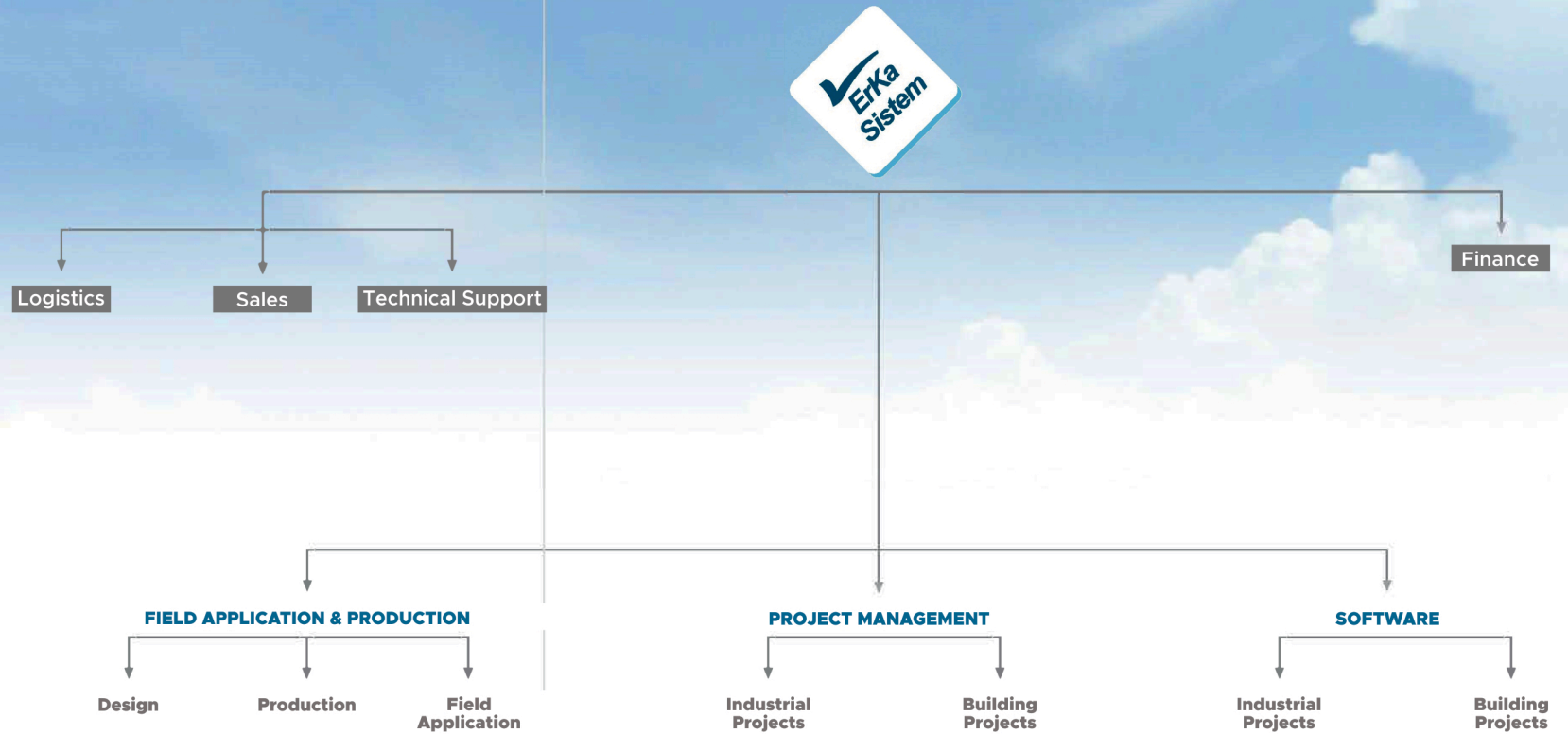
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Organisation



We, as Erkasistem family, believe that works to be proud of can be achieved only through a good organisation as well as a good organisation can be achieved only through rational realisation of work survey.



Our Services



Proposal & Project

Pre-Engineering Survey

- » Special Project survey
- » Project specification survey

Detailed Engineering Survey & Project

- » Design of ADP, MCC & PLC Panels
- » Electrical installation design & drawing
- » Design of Automation & Communication Structure
- » Instrumentation
- » Material selection

Field Application

Design and Production of ADP, MCC & PLC Panels

Installation

- » Field installation
- » Field installation supervision

Software

- » PLC
- » SCADA & HMI
- » Integration of automation systems to MES & ERP programs

Tests & Commissioning

- » AC/DC, servo & step motor applications
- » Cold & hot tests
- » Calibration
- » I/O tests
- » Commissioning
- » Training

Post-Sale Services

Management Services

Periodical & Preventive Maintenance

Emergency Services 7/24

Water Treatment Technologies



As well as water treatment projects are increasing as their capacities are getting larger due to increasing water consumption and wastewater treatment needs parallel to rapidly increasing population. Water treatment plants can be divided as follows,

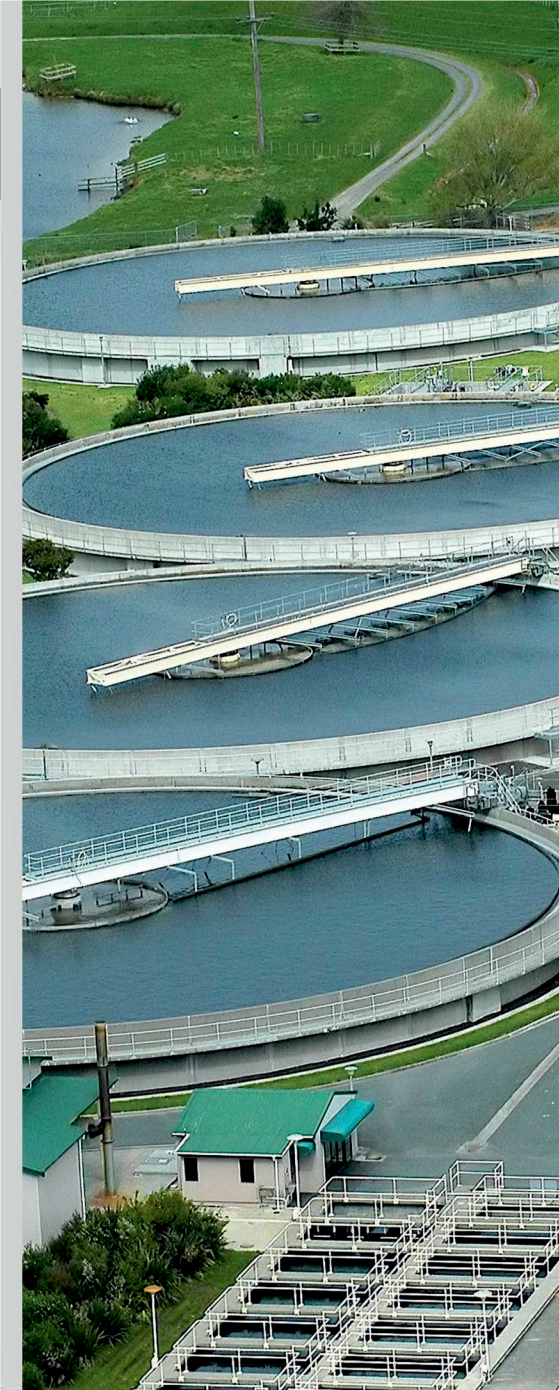
- » **Wastewater treatment plants**
- » **Drink water treatment plants**
- » **Process water treatment plants**

As a result of pre-engineering survey of water treatment plants, the following common features can be found on all these plants,

- » Large field
- » Large water treatment buildings
- » Many pumps & blowers
- » Distributed electrical infrastructure
- » Distributed PLC infrastructure
- » Heavy instruments
- » Centralized SCADA
- » Periodic Reports

In order to meet these requirements; detailed know-how on Project design, field application, LV panel design, AC drives, instrumentation & industrial IT are needed.

Water treatment projects are environmental awareness projects for our senior engineers and technicians.



Heavy Industries

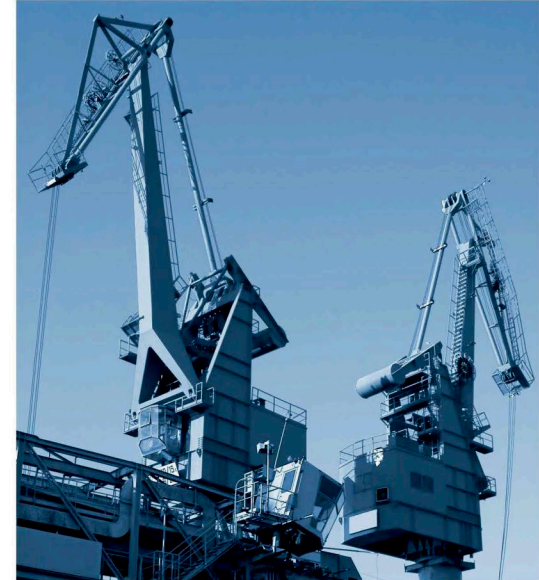


Industrial projects are seen as jobs with high degree of difficulty due to project design, process, detailed installment needs & environmental conditions.

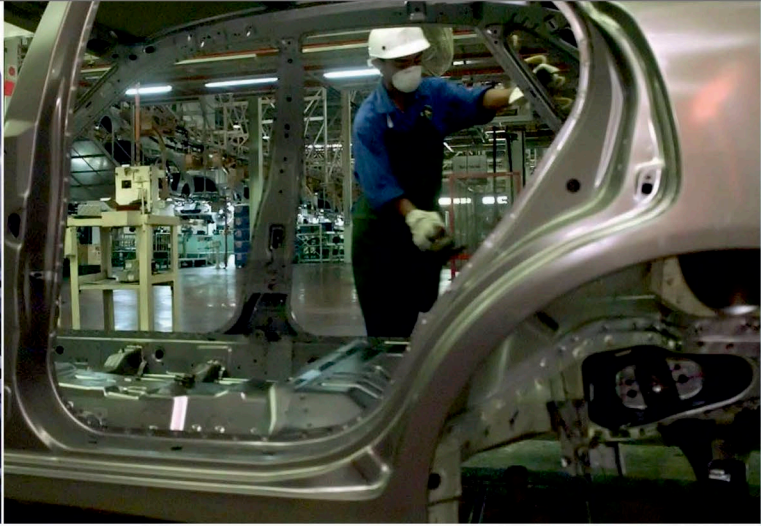
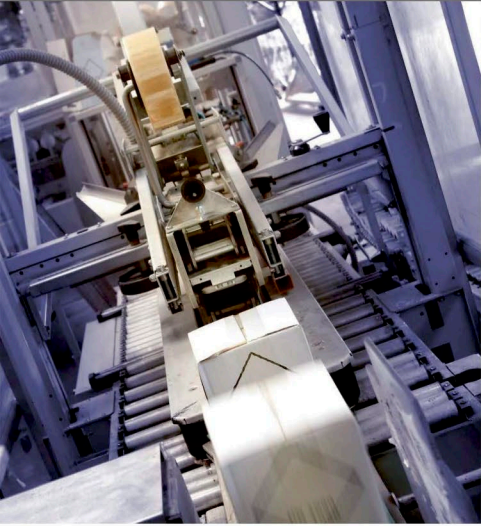
Industries pushing these limitations are called heavy industries. Hydroelectric power plants, industrial NH₃ based refrigeration systems and batch & recipe preparation systems can be given as examples of heavy industries.

This type of projects requires not only basic engineering skills also “detailed tricks” related to the job.

Our experienced engineering staff more than 20 years have been working on this type projects regularly.



Plants



Automation systems are needed in the projects on capacity incrementation and revision of production lines. These projects can be summarized into following subfamilies,

- Production line automation
- Data Acquisition and MES application
- Energy distribution network automation
- Process automation
- Motor commissioning
- Automated RFID & Barcode systems

Due to the increasing competition conditions; Businesses, who are concerned about maintaining their existence in the future, must be much careful to keep record of the process than before. This requirement leads businesses to invest in automation systems for more efficient and effective production.



Electrical Network

Observation, management and reporting of electrical energy are imperative for all the systems where electrical energy are critically important and intensely spent like plants, hospitals, industrial zones, and airports. This method ensures not only the continuity of the production also minimizing of downtime and maintenance.



Transformers, Generators Switches, Motor protection relays and electric energy meters etc. are electricity distribution network system's elements.

In addition to electricity distribution systems, supervisory data acquisition of energy meters and billing of the spent electrical energy are evaluated as electrical network automation systems. The following electrical network automation systems are realised by us,

- Electrical distribution network and electrical energy management
- Synchronized systems
- Billing systems

Transportation



- On airports; on Infrastructure, Baggage & Cargo Services, and passenger lobby
- On highway tunnels; on ventilation, lightning, safety, signalling, CCTV
- On railway transportation; on signalling, safety, passenger areas and infrastructure
- On sea transportation; on balance, tank level and passenger areas



Well designed and implemented transport automation systems are the service of passengers for comfortable and safe travel.

Our experienced engineers and technical staff had undertaken critical responsibilities in some of the most extensive transportation projects.

Telemetry

Telemetry is a secure and continuous data acquisition system for remote and distributed processes. Telemetry is widely used on infrastructure network systems like electricity, natural gas and water lines where secure and continuous data acquisition is a necessity. According to communication requirements and available communication infrastructure, radio frequency, GSM, satellite, telecom lines can be used in telemetry to send acquired data to supervisory control.

- Pump stations
- Natural gas Distribution Centres
- Energy Distribution networks



Telemetric systems are necessary systems for secure and continuous data acquisition despite its high initial investment costs. In the long run, personal and transportation costs are minimized, and profitability of the system is increased thanks to investments on telemetric systems.

We are using new generation products of our solution partners which brings new innovative approaches to the telemetric systems.

Building Management Systems



The reasons of establishing building automation systems are comfort, energy management, security, and continuity of building management. These systems are indispensable investments for commercial buildings like residences, hospitals, hotels, Office buildings and shopping malls.

Our company, whose specialty is automation systems, produces holistic solutions for building systems with its solution partners who are experts in sharing the same quality awareness with us, with the sectoral experience that has been brought over the years. Thus, it meets the expectations of its customers about security systems as well as automation systems as a single supplier.

- **Comfort**
 - Air Conditioning (HVAC)
 - Lightning Automation
- **Energy Management**
 - Electrical distribution network
 - Billing
- **Security**
 - CCTV
 - Card systems
 - Fire Detection

