

## WhatWeDo

Advanced Industrial Systems Ltd. specializes in the automation of processes.

Drawing from years of related experience and knowledge of available technologies, we develop systems that perform to clients' expectations. We deliver the required level of controls, instrumentation and operator interface, to either benefit from our own information systems or seamlessly integrate with existing plant information systems.

## OurCompanyProfile

Establishment in 1991, AIS Ltd. has applied technology to various customer needs. Originally focused on process automation, the company has today expanded into other areas of specialization such as Biometrics, SCADA, Telemetry, Access Control, Time & Attendance, Coding and Building Management. The core activity of the company remains Systems Integration with a strong team of multi-disciplined personnel employed at various levels.

Supported by engineers and technicians specializing in industrial electronics and control systems, AIS Ltd. ensures high quality customer oriented solutions to its wide customer base and provides an all encompassing engineering know-how which ensures a customer oriented solution.

Situated in the central Mediterranean, AIS Ltd. provides its services and products to customers in the region mostly in the Middle East, Southern Europe and North Africa.

## ProductsandServices

AIS is involved in process control in its widest sense by providing products and services at many levels of automation. AIS provides complete *design and build* turnkey packages incorporating varying degrees of process control and management information systems.

### PlantControlSystems

AIS has many years experience in the automation particularly in process control and building management. Our expertise ranges from instrumentation for the automatic collection of data to PLC systems for process control to wider computer systems for providing real-time management control over a corporate LAN.

Our manufacturing capability includes control and MCC panel building. We are providing systems using industry recognized equipment such as GE-Fanuc Automation equipment, and have in-depth experience of many other systems including Siemens, Allen-Bradley, and Schneider.

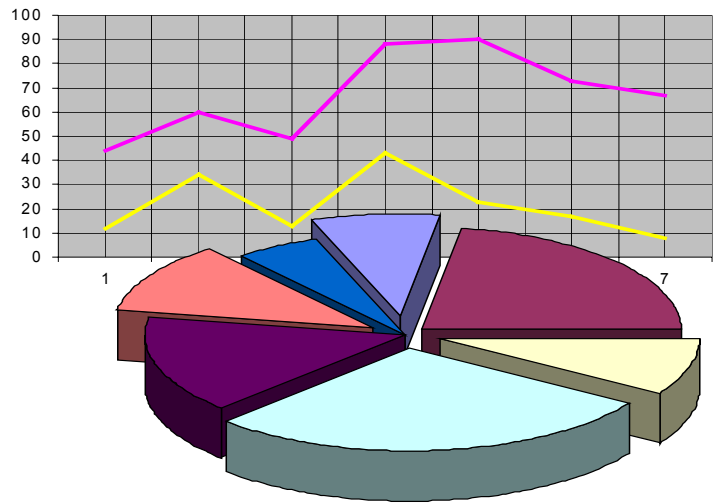
Above all, our policy is flexibility and this facilitates the provision of a complete service to meet customers' needs in the best and most cost effective way.



## Management Information Systems

Our systems are written using powerful packages including Cimplicity PE , MS SQL and Oracle.

In our latest SCADA installations we are integrating ADSL broadband technology onto radio networks enabling real-time data capture from remote sites. We also provide alarm notification via SMS mobile phone telephony together with mobile links to corporate LANs via GSM and GPRS mobile phone networks.



Our in house IT capabilities enable us to integrate our systems into existing client applications, significantly reducing investment costs and reducing the need for re-training personnel following the commissioning of new systems.

## Partial Project List

The list of projects is a sample of the diversity that our company offers. Most of these projects are operated and controlled by computer systems and PLC's including customized software written and developed by AIS Ltd.

- **SCADA Telemetry System** – for the Water Services Corporation. Real-time data capture via an integrated network of broadband, radio and telephony from Reverse Osmosis Plants, water reservoirs, ground water sources and pumping stations. System provides 35,000 points of data capture covering the Maltese Islands. The system also allows for alarm notification via mobile telephone networks.  
Completed: **2003**
- **SCADA Telemetry System** – for the Drainage Department. Primarily intended for real-time management of the wastewater, the system also provides for scheduling of preventive maintenance. The telemetry SCADA system is installed over an intricate network of broadband, radio and telephony. The system also allows for alarm notification via mobile telephone networks.  
Completed: **2003**
- **Building Management System** - Whitehall Mansions office block also housing the British High Commission. The system incorporates a centralized control of the lighting circuits, air conditioning system and door monitoring. An automatic billing system for the electricity, water and thermal consumption is also an integrated feature of this building system.  
Completed: **2002**

- **BuildingManagementSystem** - Westin Dragonara Resort. This 5-star holiday resort is spread over a 74,000 m<sup>2</sup> and is an oasis of luxury and tranquility just steps away from the shops, restaurants and main entertainment venues of downtown Malta. The building management incorporates automatic control of all the plant room equipment, including chillers, air handling units, ventilation fans, hot and cold water supply systems, boilers, calorifiers and the sewage system.  
Completed: **2001**

- **BuildingManagementSystem** - St. Vincent De Paule – Serenity Wards for the Elderly. Primarily designed to maximize the use of sustainable energy, the central building computer manages solar energy to reduce heating costs. The system automatically controls all the heat pumps, boilers, extraction fans and water pumps and minimizes energy losses. Also monitoring of main essential and non-essential electricity supplies, medical gasses, irrigation system and lifts.  
Completed: **2001** (1<sup>st</sup> Phase) and **2003** (2<sup>nd</sup> Phase)



- **AutomatedBillingSystem** - Portomaso Apartments. Situated in the fashionable district of St. Julian's on Malta's north east coast, the luxurious waterfront apartments overlook a magnificent yacht marina. These prestigious apartments are built on multiple levels in perfect harmony with the traditional local architecture. AIS has installed a billing system providing automatic reading of electricity and water meters and the management of the utility services billing.  
Completed: **2002**



- **AdvancedClockingSystem** - Malta Drydocks. With 2,700 workers and seven drydocks accommodating vessels up to 300,000 Tons DWT, Malta Drydocks is one of the major Mediterranean shipyards. It also offers the complete range of services through large and fully equipped workshops. AIS has installed at these facilities a state-of-the art clocking system communicating over a high-speed communication network using the TimeIT™ web-based client/server software package designed and developed by AIS Ltd. The system operates on Oracle and is seamlessly integrates with e-mailing servers providing managers with real-time reports.  
Completed: **2002**

ais

- **AccessControlSystem** Auberge de Castille – Office of the Prime Minister. A comprehensive access control system respecting the decor of this largest and most elegant of the auberges in the capital city of Malta. The Auberge dates from 1574 and installing state-of-the-art technology in such a historic and important building is as challenging as the collective technologies employed. Integrating biometrics, smart cards and RFID proximity readers ensured the flexibility, security and artistic stylishness this magnificent place deserves.  
Completed: **2003**



- **AccessControlSystem** network over three remote sites for Agip Libyan Branch in Tripoli, through which 2,000 employees pass daily. The system which was based on proximity card reader technology, included the development and installation of in-house designed hands-free and obstruction-free access portals. All software and hardware relating the control and communication of the system was installed and commissioned by AIS Ltd. AIS Ltd. was also entrusted with the total refurbishment of the reception area of the Agip's Head Office in Tripoli.  
Completed: **2000**
- **MotorControlCentres** – Numerous electrical and electronic control panels for various applications, one of the more prestigious contracts undertaken so far being the onboard ship controls for two deep-sea water observation vessels – **Mansal 18** and **Mansal 19**
- **AutomatedBulkBatching** – Bulk material handling automation of 140,000kg-batching plant at Biochemicals International Ltd. for the production of liquid detergents, fabric conditioners, shower gels, shampoos and soaps.  
Completed: **1995**



ais

ADVANCED INDUSTRIAL SYSTEMS LTD. St. John Street Fgura PLA13 Malta

+356 21 803 350  
www.ais.com.mt

+356 21 803 363  
info@ais.com.mt