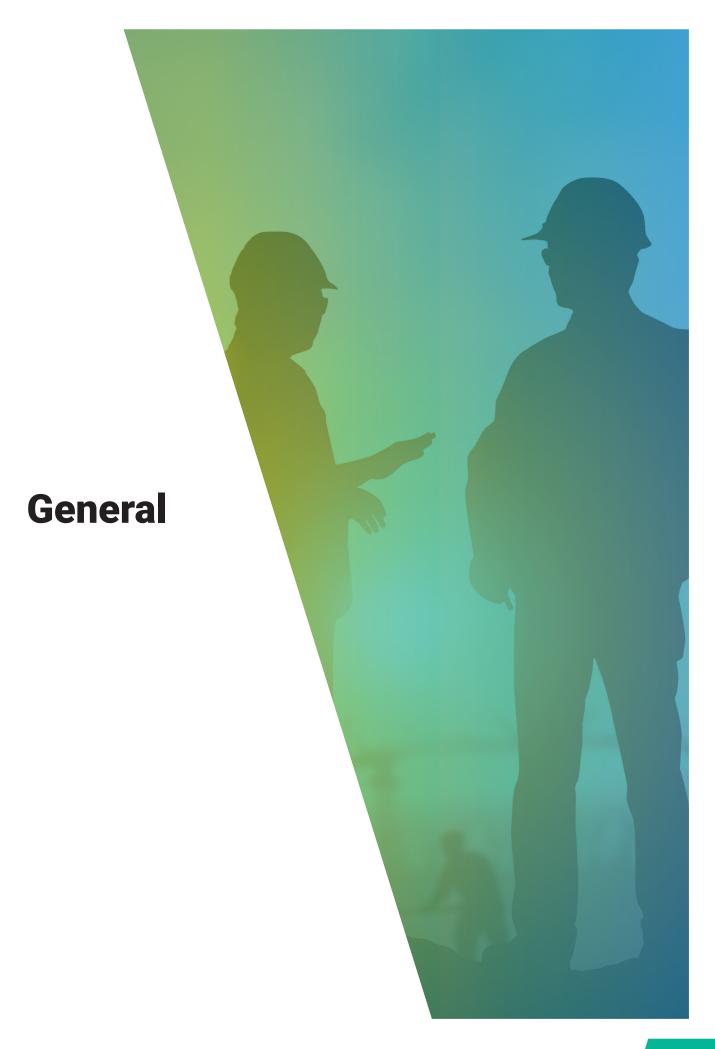


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General

Who Are

LUDAN GROUP is proud to be a most diverse provider of integrated solutions for Industrial Development, Plant Optimization, Environmental Issues, and Industry-Specific Implementation Knowledge.

LUDAN GROUP is a unique blend of companies in the fields of Engineering, Software, Process Control, Environment, Energy and more, located in Israel, western Europe (Holland, Belgium), Eastern Europe (Romania, Bulgaria).

Ludan: Stable, Dynamic & Innovative



Stable

Cultivates a multidisciplinary approach
A public, financially
stable company
Highly diversified
market activity



Dynamic

Invests in continuous growth

Responds quickly to global macro changes and local micro changes

In selected sectors, the company's maintenance portfolio acts as an extension of projects implementation



Innovative

Back office and vehicle
fleet management software
development for the public
transportation market
Payment solutions: EMV,
cellular and more
Cyber security: OT
infrastructure solutions for
industry and IT communication
fields



Top management



Arnon AharonC.E.O - Ludan Group



Avi Lieber
C.E.O of Ludan
Tech & C.E.O of
Symcotech



Willem Pronk CEO – LudanCom -KH Group



Yuval AlonV.P. Engineering
& Marketing



Dmitri Militescu
C.E.O of Ludan
Engineering SRL &
Regional Manager
Of Eastern Europe



Yehuda Drucker C.E.O of Ludan Engineering Israel



Stability and Development Milestones

2002

Establishment of Ludan Environmental Technologies

2007

Acquisition of Symcotech Ticketing & Electronics 2014

Acquisition of

smart asset

integrity

solutions

Acquisition of additional engineering entities in Benelux 2020

Initiation of energy billing services

1997

1977

Establishment

of Ludan

Establishment of Ludan Romania Engineering Ludan listed on T.A. Stock Exchange 2005

Acquisition of KH Engineering 2012

Equity investment in Biogas Plnts

2015

Acquisition of Ardan Control Tech. Industrial IT 2019

Establishment of Ludan Cyber Security 2021

Expansion to overseas public transportation markets Establishment of Ludan ATF (Advanced Technologies Facilities)



Group Structure

Corporate Structure







Subsidiaries in the engineering field

Ludan Engineering Israel
Ludan Engineering SRL Romania
Ludan Engineering Ltd. Bulgaria
KH group - The Netherlands & Belgium
Ludan Advanced Technology Facilities (ATF)





Ludan - Tech

Subsidiaries in the systems integration field

Ludan Software & Control Systems

Symcotech, Public Transportation

Ardan Control Tech

Ludan Cyber Security





Ludan Environmental Technologies Ltd.

Subsidiaries and SPCs in the environmental and energy fields

Ludan Environmental technologies Israel

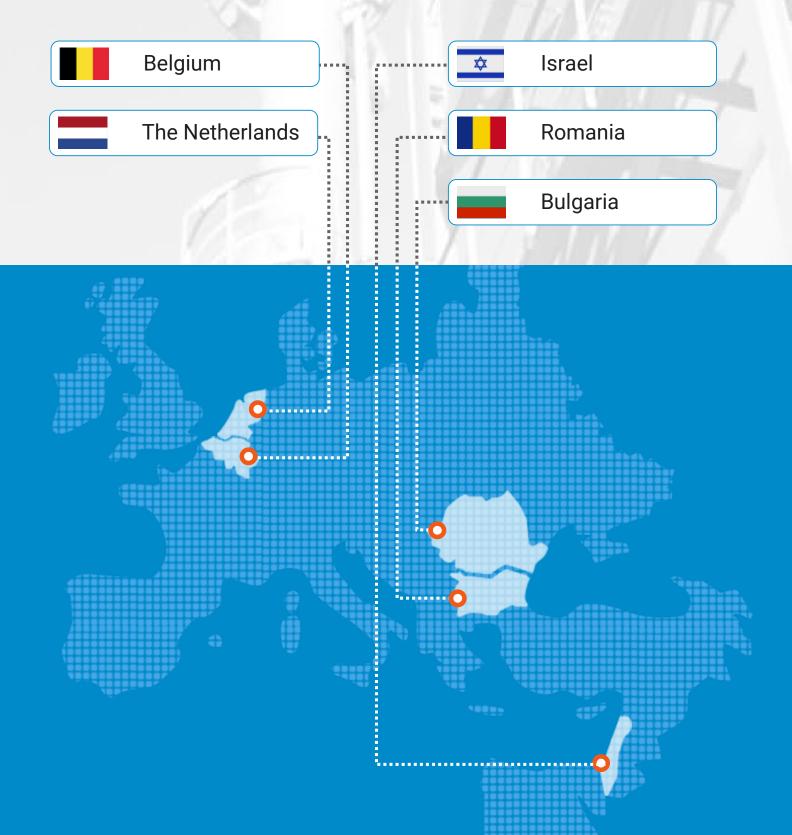
Eco Tech, Emissions measurements, Israel

Ludan Energy Overseas Israel/Holland



Where to find us

Global Reach





Spectrum of Services & Clients Sectors

Engineering Sector Over 600 active clients

Current Activity

- A significant player in the process industry
- A widespread geographic presence

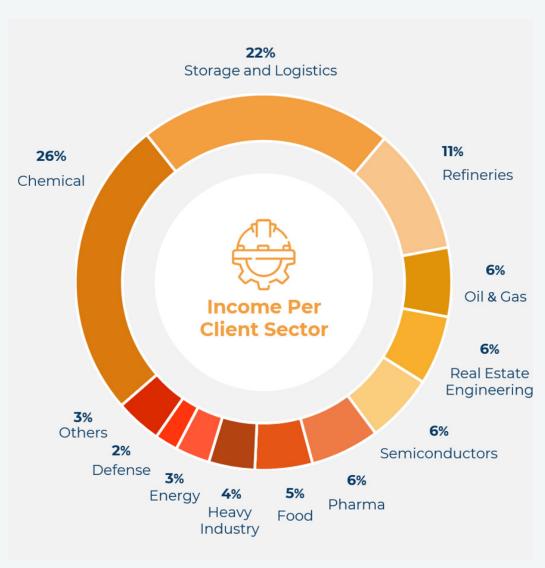
Establishing a Competitive Advantage

- Low Cost Center (LCC) operations
- EPC & Technological project implementation

Services

Services are provided as engineering services in the EPCM or EPC framework, which, inter alia, include:

- Project management
- Prepatration and Control of budgets and schedules
- Permitting Authority Engineering
- Multidisciplinary engineering design
- Procurement and contracting
- Construction management and Supervision
- Validation (implementation of international standards, such as FDA/GMP)
- Commissioning



Spectrum of Services & Clients Sectors

Tech Sector Over 550 active clients

Current Activity

- Public transportation
- Homeland Security
- · Building management
- Testing equipment for the defense industries
- Software & Cyber security
- Industrial control systems implementation

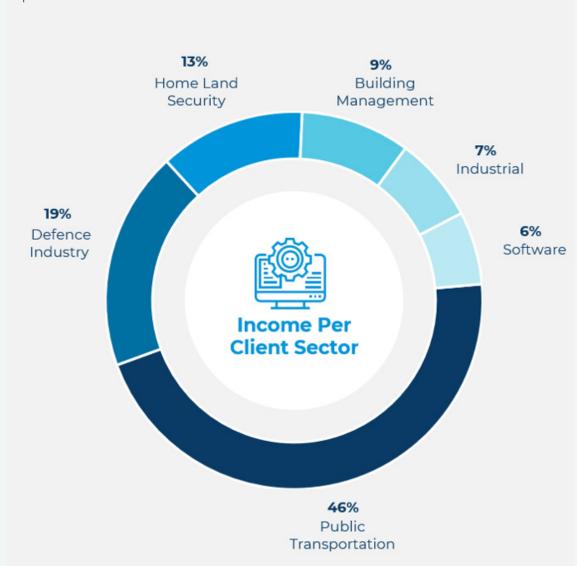
- EMV & cellular payments
- Industry app. software portfolio expansion

Activity Expansion

- Europe based public transportation
- Europe based cyber security
- · Rapid growing maintenance portfolio

Establishing a Competitive Advantage

 Product & software development for transportation market



Spectrum of Services & Clients Sectors

Environmental Technology Sector Approx 100 active clients

Current Activity

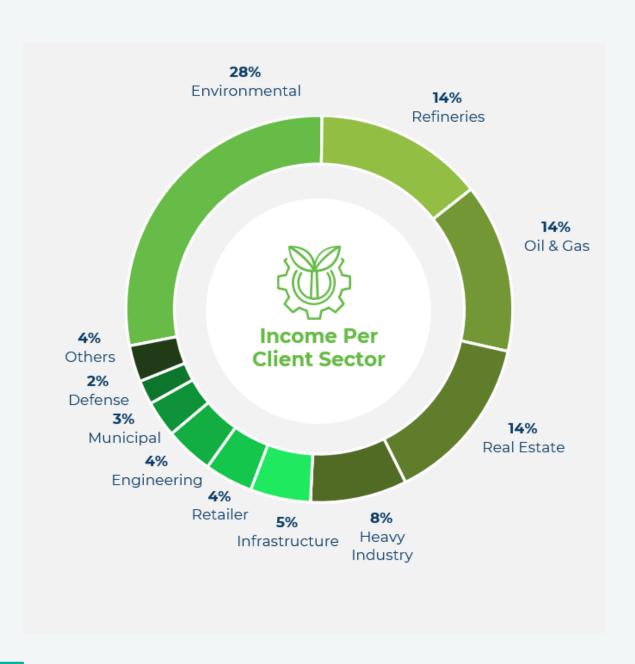
- Environmental consultation for industries & infrastructures
- Pollutant measurements & solution implementation
- Rehabilitation project implementation

Establishing a Competitive Advantage

• Relationships with know how providers

Activity Expansion

- Land rehabilitation
- EPC & technology projects
- WTE system initiation, implementation & operation





Market Presence & Major Clients

Markets/Industries







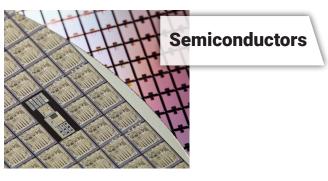














Major Clients

SEKISUI

























































Market Presence & Major Clients

























































Sulfur Recovery Unit

Client: Refinery

Project Goal: New unit that will replace existing old Sulfur Recovery Unit (SRU),

Technology By: Wood, Compimo

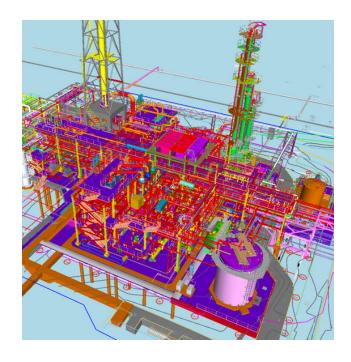
Scope: Detail design, Design Management.

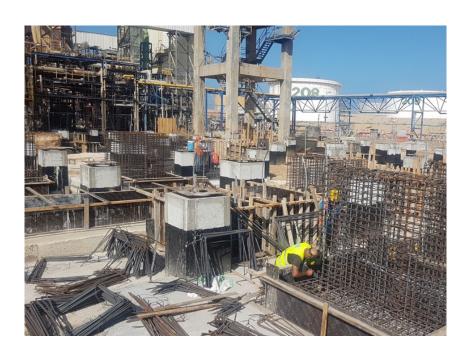
Year of Completion: 2022 Project Value: Tens of M USD

 Local Refinery was planning to construct new SRU unit.

 Wood (Amec Foster Wheeler) were selected to perform Feed design for the unit.

 Ludan Engineering Israel, were awarded the FEED review, Detail design and Design management for the project, which includes more than thousand lines and hundreds units of equipment which were manufactured all over the world. Ludan Engineering Romania were involved as well in broad range of activities.





Soreq 2 - Desalination Plant

Client: IDE

Scope: Control System

Project Value: Several M NIS

Technology: DCS

Year of Completion: 2023

Project Description

• Soreq 2, is one of the world's largest desalination plants, Ludan Engineering Israel has provided the Instrumentation design & provided the instrumentation & control HW.

 Ardan Control Tech, a Ludan-Tech company was awarded the DCS (Distributed Control System) design and execution. Ardan's project's scope included the design, supply, and programming of the system.





Project name: Metronit

Client: Superbus mass transit company

Project Goal: replace the Metronit, a metro – like bus service in the Haifa area

Technology: Ticketing, Fleet Management

Year of Completion: 2021 **Project Value:** Tens of M NIS

Project Description

Superbus won the Metronit Metro – like bus service in Haifa. Being a long time customer of Symcotech, a Ludan group company, a decision was taken with a few important notes:

- End to End ticketing solution
- Fleet Management
- The debut of an own manufactured stationary payment equipment.



Project name: TEVA Asia Soil Remediation

Client: A real estate company located in a plant previously occupied by a pharmaceutical plant.

Project Goal: Polluted land rehabilitation for construction purposes

Technology: Bioventing, SVE **Year of Completion:** 2020 **Project Value:** Several M NIS

Project Description

· Historical survey and soil Samling program.

· Conducting soil survey using drilling machinery and analytic laboratories.

• Preparing soil pollution status report.

Preparing soil remediation plan, engineering plan and budget frame.

• Purchase ,supply, installation and test run of advance soil treatment system targeted for volatiles materials in the ground.



Project name: PAMA Steam Boiler

Client: Pama

Project Goal: Installation and operation of a new steam boiler.

Scope of work: Connection of a new steam boiler to the national Natural Gas transmission system.

Year of Completion: 2022 **Project Value:** Several M NIS

Project Description

• As part of the effort for polluting reduction, Ludan EPC Division won the bid to connect a new steam boiler to the natural gas grid.

- The project consists of a 1 km above and below ground 4", 16 bar CS pipeline,
- Erection of PRMS station and an 8" connection to the new boiler.



Project name: Yad Haruzim Bus Dipo

Client: Native Ayalon

Project Goal: Upgrading & electrifying public transportation hub

Scope of work: Civil inspection **Year of Completion:** 2022

Project Value: several hundreds of K NIS

Project Description

• Upgrading & electrifying public transportation hubs a national interest.

 Ludan infrastructure is providing Management and supervision services for Earthworks, infrastructure & construction of a bus parking site, including energy room and installation of 73 electric charging hubs.





Project name: Chemical Plant

Client: Confidential

Project Goal: New chemical manufacturing facility

Scope of work: Design & modeling

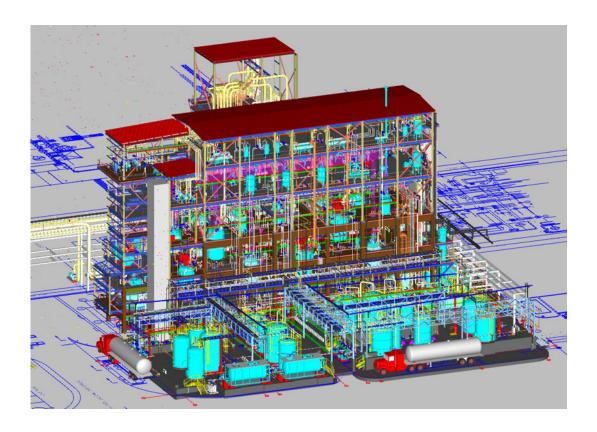
Year of Completion: 2022 **Project Value:** several M NIS

Project Description

· Piping design and preparation of 3D modules for the entire project.

• Design of 3,000 isometrics.

Modeling pf 350 equipment units.



Project name: Electrolysis Plant

Client: Confidential

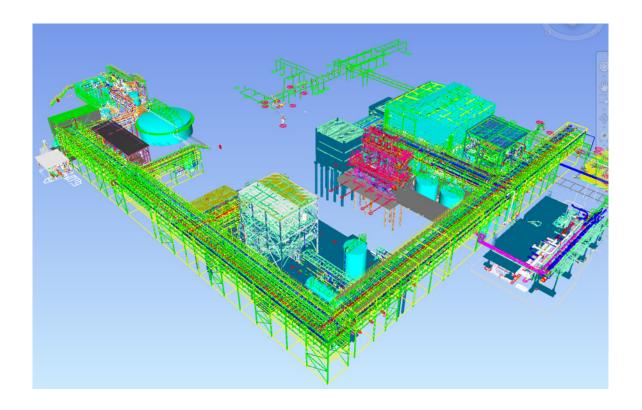
Project Goal: New chlorine manufacturing facility

Scope of work: Design
Year of Completion: 2023
Project Value: several M NIS

Project Description

• New Chlorine Production Plant with membrane process which will replace the existing chlorine production plant with mercury cells alkali process.

• The plant is designed to produce 50,000 TPY of chlorine.





2021 - Financial Data

Consolodated Balance Sheet (in '1.000EUR)	2019	<u>2020</u>	<u>2021</u>
Current assets	63,311	57,738	68,482
Investment in long-term receivables	24,238	20,114	21,055
Fixed assets	3,862	3,563	3,896
Intangible assets after amortization	<u>6,687</u>	<u>7,252</u>	<u>8,308</u>
Total assets	98,098	88,668	101,741
Current liabilities	59,185	52,402	58,032
Long-term liabilities	22,730	18,292	20,392
Minority interest	15,840	17,529	22,940
Shareholders' equity	<u>343</u>	444	<u>377</u>
Shareholders' equity Total liabilities and shareholders' equity	<u>343</u> <u>98,098</u>	<u>444</u> <u>88,668</u>	377 101,741
Total liabilities and shareholders' equity	98,098	88,668	101,741
Total liabilities and shareholders' equity Consolodated P&L Results (in '1.000 EUR)	<u>98,098</u> <u>2019</u>	<u>88,668</u> <u>2020</u>	<u>101,741</u> <u>2021</u>
Total liabilities and shareholders' equity Consolodated P&L Results (in '1.000 EUR) Sales	98,098 2019 141,500	2020 135,534	101,7412021134,355
Total liabilities and shareholders' equity Consolodated P&L Results (in '1.000 EUR) Sales Gross Profit	98,098 2019 141,500 13,347	2020 135,534 14,953	101,7412021134,35513,768
Total liabilities and shareholders' equity Consolodated P&L Results (in '1.000 EUR) Sales Gross Profit Operating earnings	98,098 2019 141,500 13,347 6,234	88,668 2020 135,534 14,953 7,726	101,741 2021 134,355 13,768 7,318

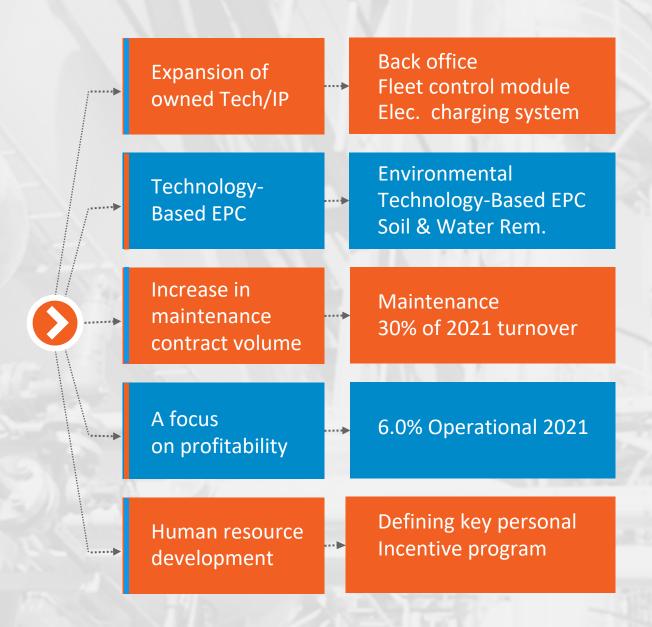


Strategic Objectives

Strategic Objectives



Realization Methods





2021 - Financial Data

Strategic Paths for Future Evolution



Division	Strategic Paths for Future Evolution	
	Electrical Engineering	88888 66666
International	Energy Storage	
Engineering	Protein replacements	Y
Services	Circular Industry	2
Ludan Tech	Public Transportation	
Environmental	Waste Water treatment	
Technologies LTD	CO2 Capture	0



Group Contacts

Group Contacts

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