

#### **BUSINESS**

To provide technological solutions that offer innovation, productivity and competitiveness, seeking recognition and loyalty.

#### **MISSION**

To develop, manufacture and supply equipments and solutions for industrial automation, creating superior value for stakeholders.

#### **VISION**

To be a great force in the domestic technology market, acting globally and delivering solutions with excellence.

#### **VALUES**



CUSTOMER FOCUS



INTEGRITY



COMPETENCE



VALUE CREATION



INNOVATION

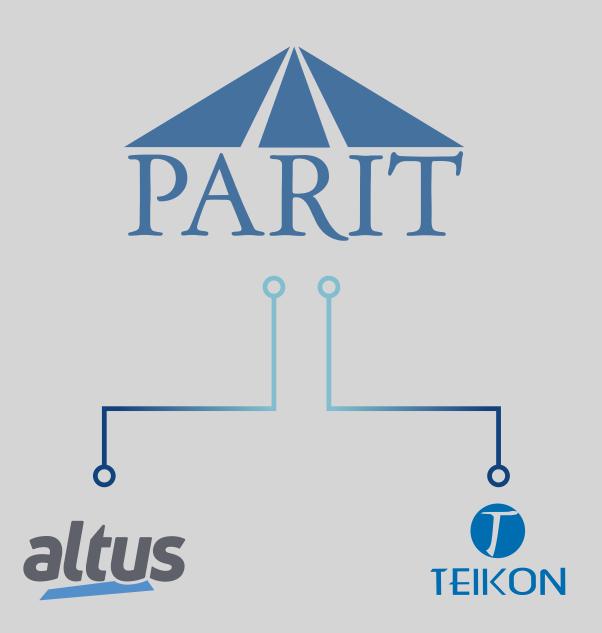


HAPPY PEOPLE

# EXCELLENCE IN MANAGEMENT

- Alignment with well-known international management models and practices;
- ISO 9001:2015 (since 1993);
- Use of management excellence methods at strategic, tactical and operational levels.





# PARIT GROUP

 We are an integral part of Parit Participações, holding company in the technology sector which has as part of its group Teikon Tecnologia S/A, company specialized in electronics manufacturing.



# FOR 4 O YEARS

OUR PURPOSE IS TO CREATE SOLUTIONS WITH HIGH ADDED VALUE ENSURING PRODUCTIVITY, SECURITY AND RELIABILITY TO MOST PROCESSES IN THE INDUSTRY

### HEADQUARTERS

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REPRESENTATIVES IN BRAZIL

We count on a broad network of commercial partners all around the country in order to gather all the industrial demands.

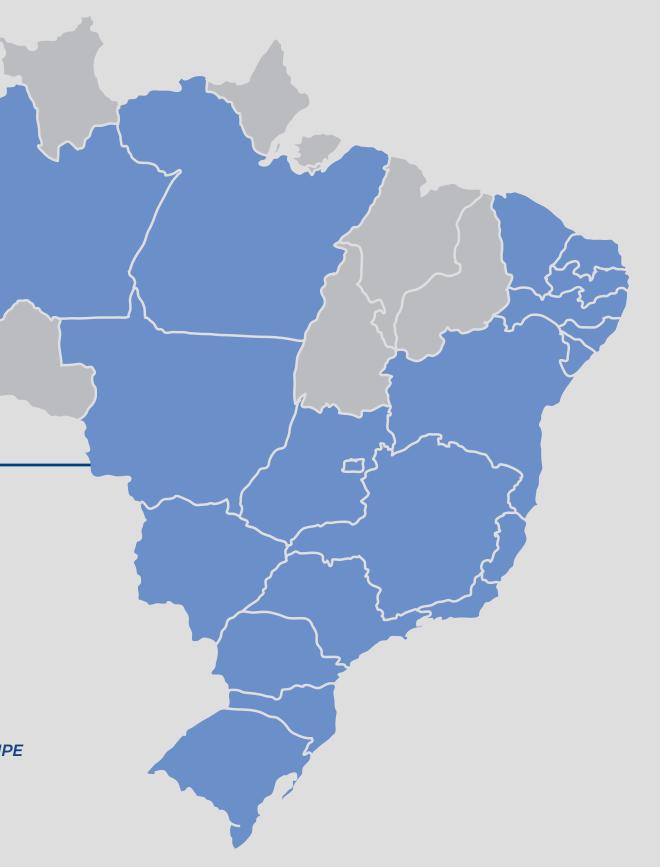
# MORE THAN 30 SALES REPRESENTATIVES

**COVERING THE WHOLE COUNTRY** 

ALAGOAS • AMAZONAS • BAHIA • CEARÁ • DISTRITO FEDERAL • ESPÍRITO SANTO • GOIÁS

MATO GROSSO • MATO GROSSO DO SUL • MINAS GERAIS • PARÁ • PARAÍBA • PARANÁ • PERNAMBUCO

RIO DE JANEIRO • RIO GRANDE DO NORTE • RIO GRANDE DO SUL • SANTA CATARINA • SÃO PAULO • SERGIPE



# CERTIFIED INTEGRATORS

IN BRAZIL

The Integrators Certification Program aims to promote and standardize knowledge about the products and solutions offered by Altus. Focusing on the qualification of business partners and customers technical teams, the initiative seeks to reduce risks on the development of automation systems.

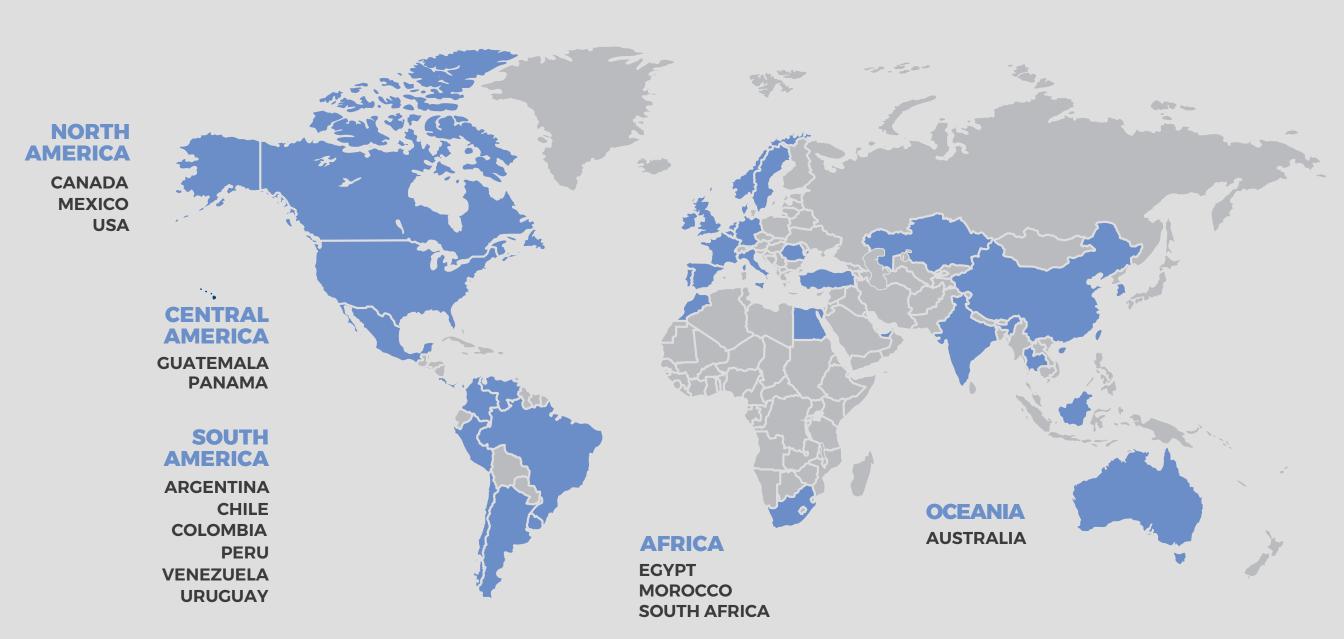


KNOW OUR
INTEGRATORS



## INTERNATIONAL PRESENCE

With important partnerships established in different countries of Europe, Asia and South America, Altus seeks to expand its international presence.



#### **EUROPE**

ÅLAND
DENMARK
ENGLAND
SPAIN
FRANCE
GERMANY
GREECE
NETHERLANDS
ITALY
LATVIA
NORWAY
PORTUGAL
ROMANIA
SWEDEN
TURKEY

#### **ASIA**

CHINA
INDIA
KAZAKHSTAN
KUWAIT
SINGAPORE
SOUTH KOREA
TAIWAN
THAILAND
UAE

# STRATEGIC PARTNERSHIPS

We have a long and strong relationship with companies from different countries, suppliers and also, R&D projects.











## **PARTNERSHIPS WITH** ICTS AND UNIVERSITIES

Since Altus was created during a graduation course at UFRGS university, in 1982, the company has a strong connection with the academic world. Today, we have projects with different universities and technological institutes from north to south of the country.



#### **UFRGS**

Universidade Federal do Rio Grande do Sul



#### **UNISINOS**

Universidade do Vale do Rio dos Sinos



#### **FURG**

Universidade Federal do Rio Grande



#### **UFRN**

Universidade Federal do Rio Grande do Norte



#### **FEENG**

Fundação Empresa da Escola de Engenharia



#### **FITEC**

Fundações de Ciência e Tecnologia



#### **FAURG**

Fundação de Apoio a FURG



#### **FAURGS**

Apoio a UFRGS







SOLUTIONS FOR THE DEMANDS OF ALL MARKETS

OIL & GAS • INDUSTRY 4.0 • MACHINE MANUFACTURERS • AGROINDUSTRY • POWER TRANSMISSION WATER & WASTEWATER • FOOD AND BEVERAGE • BUILDING AUTOMATION • CYBER SECURITY • R&D TECHNOLOGY LOADING BASES • METAL AND MINING CHEMICAL • SUGAR AND ETHANOL • PULP & PAPER TEXTILES • MARINE

# PRODUCTS PORTFOLIO



# PRODUCTS ADJUSTED TO YOUR BUSINESS

**Supervision Network** (Simple / Redundant) SUBTITLE: PROFIBUS/PROFIsafe **Ethernet MODBUS RTU Historical Servers** SCADA Servers Cyber Security Servers IOT GATEWAY **Acquisition Network** (Simple / Redundant) Electric Link For machines For machines For distributed For safety For high availability For power For large machines and midsize automation and small automation automation automation and medium-sized processes processes systems **Systems** systems systems processes

Web Clients:

- Maintenance

- Monitoring and operation

- Reports

- Monitoring

- Integration with ERP Database

**STATIONS** 

Corporate Network



# NEXTO SERIES

PROGRAMMABLE CONTROLLERS

# A COMPLETE SOLUTION FOR YOUR APPLICATION

- **Flexible:** from small to large systems, redundant or distributed;
- Reliable: high reliability for safety instrumented systems;
- Smart: Precise diagnostics and compact design;
- **14.0 Ready:** Support for MQTT and OPC UA to meet specific demands of Industry 4.0.















 Reliable: Redundancy and special input and output modules.

# HADRON XTORM SERIES

- Generation, Transmission and Distribution of Power;
- Protocols for communication with Control Centers and IEDs;
- DNP3, IEC 61850 (MMS and GOOSE), IEC 60870-5-104,
   PTP IEEE-1588, MODBUS TCP, MODBUS RTU;
- CPU and Power Supply redundancy;
- Logical Nodes Integration (IEC 61850)
   with IEC 61131-3 languages.









# VERSATILITY IN SYSTEMS SUPERVISION

- Distributed and Remote Engineering;
- System Diagnostics;
- Simulation;
- User Management and Access Rights;
- Control and Debugging Panels;
- Support for C# and VB.NET Scripts;
- Integrated Communication Drivers;
- Report Editor;
- XAML Graphical Support and 3D Models;
- Symbol Library;
- Integration with Python and writing in SQL DB.



## **PONTO SERIES**

- Redundant and optical PROFIBUS field network;
- Diversity of diagnostics;
- Hot swapping;

- Analog universal modules;
- HART modules;
- Asset management via HART on Profibus.



## **FBS SERIES**

Small Programmable Controller.

## **DUO SERIES**

- Programmable Controllers with embedded HMI;
- 42 digital and analog I/Os;
- Free MasterTool IEC Software.





## TRAINING BOX SERIES

TRAINING AND EDUCATION

### YOUR PORTABLE AUTOMATION LABORATORY

- Complete solution for training and courses;
- Recommended for automation technical courses, engineering and team training.





# INVERTERS

FREQUENCY INVERTERS

## ECONOMY AND POWER

- Functional and versatile, designed for industrial, commercial and building automation applications;
- Scalable and vectorial control of all types;
- Wide amplitude of power ranges.



### STEPPER MOTOR

- More smoothness for engine operation;
- Extremely low noise;
- Resolution of up to 15 microstep tracks;
- Automatic configuration of parameters;
- High Speed Touch Compensation.



## WEIGHT TRANSMITTER

- Zero automatic tracking;
- Calibration via serial interface;
- Multilevel digital filter;
- Serial communication interface (RS-232 or RS-485);
- Immune to noise.



## SERVO DRIVER

- Output power ranges from 100W;
- Speed, torque and position control;
- Rapid acceleration and deceleration ramp 3000 RPM;
- Absolute and multiturn encoder options;
- Communication protocols in MODBUS/RTU, CANopen and EtherCAT networks.



## **PHASE SERIES**

**MULTIMETERS** 

- Ethernet 10/100 BASE-T and Serial RS-485 communication interfaces;
- High precision;
- Expansion modules;
- Support for MODBUS-RTU, MODBUS-TCP, MQTT and SNTP protocols.



### **ENERGY SERIES**

**POWER SUPPLIES** 

- 24 Vdc modules from 2A to 20A;
- Protection against short-circuits.



## **CONNECT SERIES**

SWITCHES AND INDUSTRIAL CONVERTERS

- Rugged design (IP31);
- 02 to 16-port models;
- Optical fiber network support;
- Network management tools;
- IoT Gateway with VPN for remote and secure communication.



# QUASAR SERIES

## ELECTRICAL AND AUTOMATION PANELS

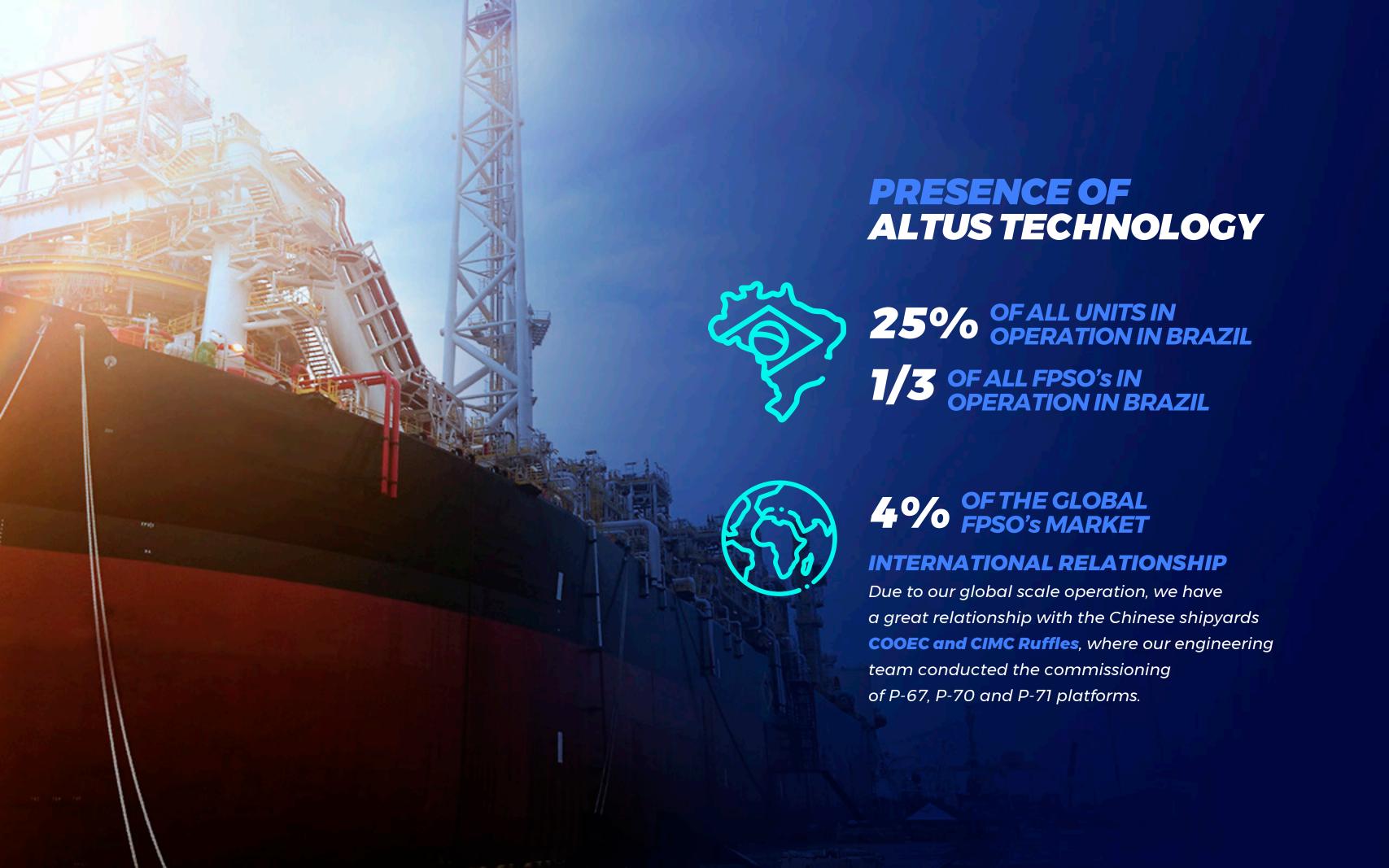
- Modularity, flexibility, and interchangeability;
- Rugged connection system;
- Lower installation cost and shorter time for maintenance;
- Integration with field networks for remote control and supervision;
- Integrated electrical quantities measurement and other variables of the system.









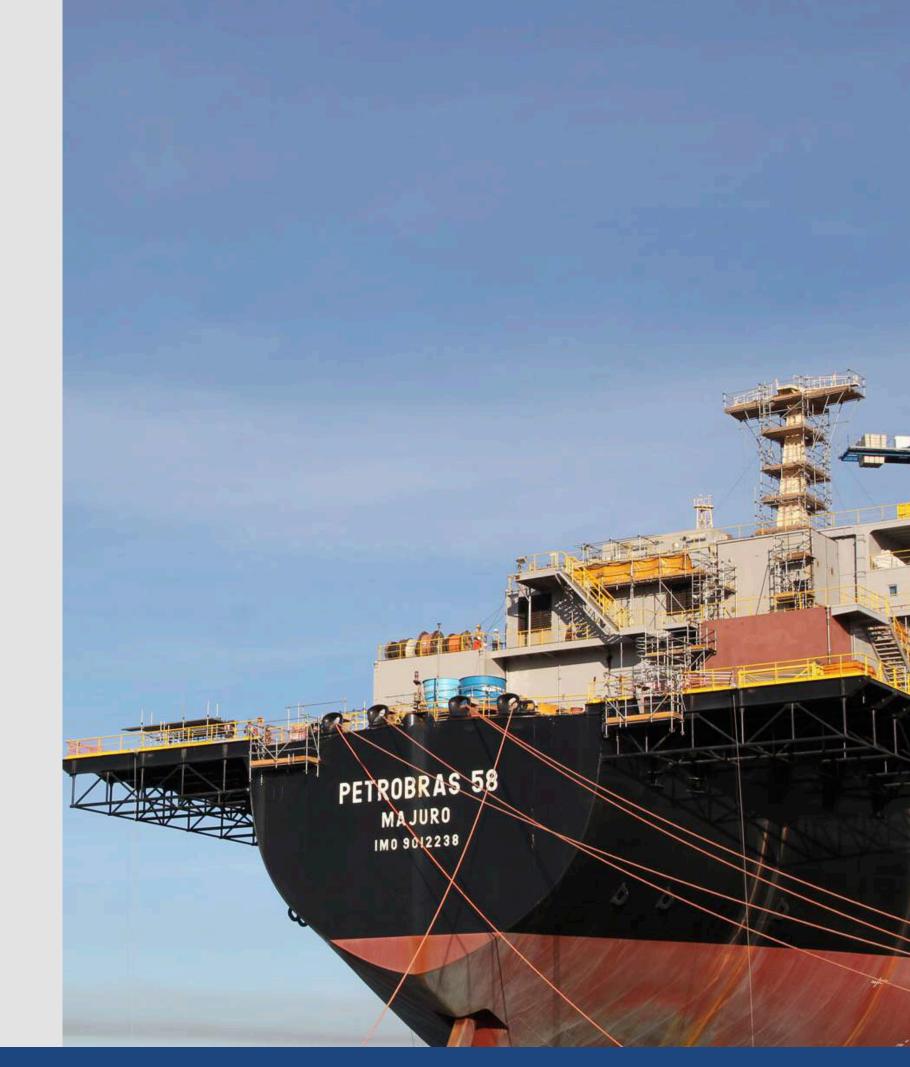


OIL & GAS | SUCCESS STORIES

## P-58 AND P-62 FPSO's

## Automation of Brazil most productive platforms

- P-58: Campo das Baleia, Campos Basin/ES;
- P-62: Campo do Roncador, Campos Basin/RJ;
- Automation of 9 Thousand control points per platform;
- Subsystems:
  - Control and monitoring of production and utilities;
  - Process shutdown;
  - Fire and gas;
  - Hull.

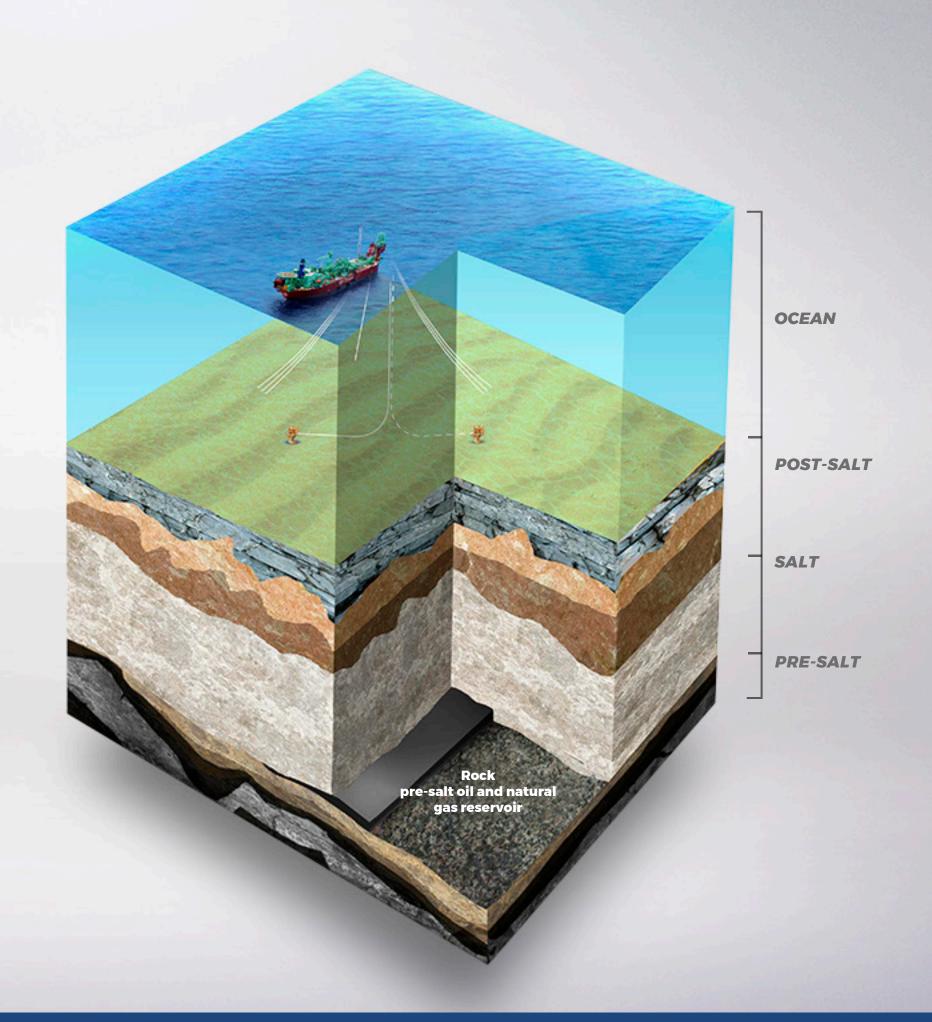


OIL & GAS | SUCCESS STORIES

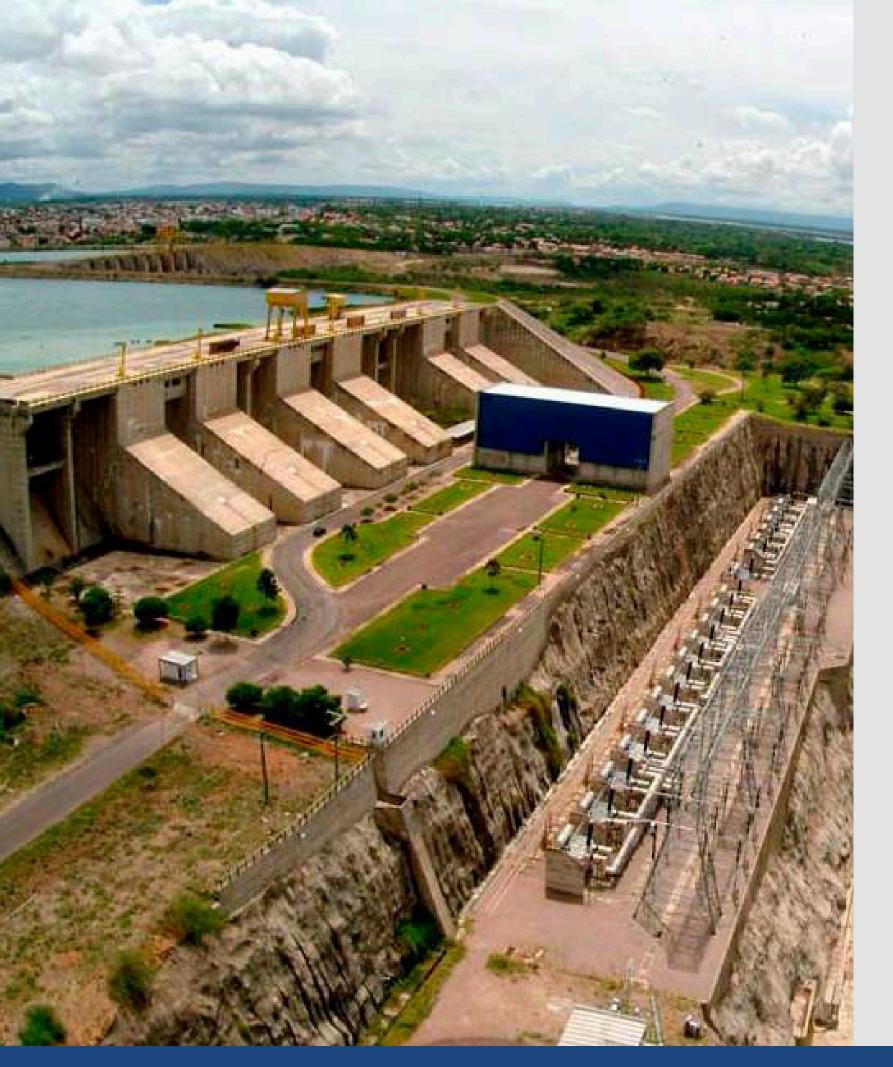
## **PRE-SALT FPSO**

50% of Pre-Salt E&P activities are controlled with Altus technology

- Automation of the first 8 platforms for Pre-Salt operations;
- Daily production capacity of 180,000 oil barrels per platform;
- More than 6 km deep extraction operations.







POWER | SUCCESS STORIES

# Paulo Afonso Complex

Responsible for 83.4% of the power generated by CHESF

- Supervision, control and protection of the generation units, water outlet gates, substations and auxiliary services of Paulo Afonso I, II and III power plants;
- 150,000 I/O points, with remote supervision and control.



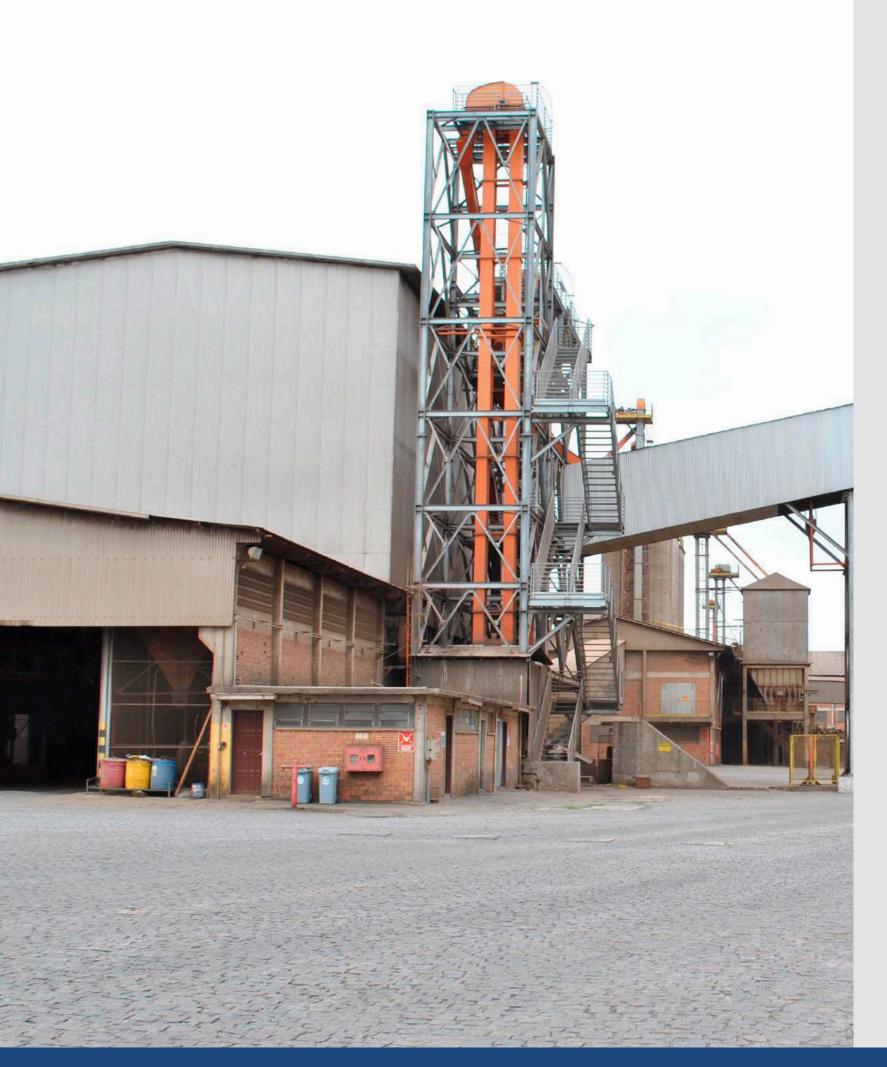
POWER | SUCCESS STORIES

# Ventos de Palmares Wind Farm

Automation of control, protection and data acquisition systems of the unit

- 50 MW of Power;
- Control and protection of Lagoa do Quintão Substation;
- Solution responsible for the integration of the power generated by the wind farm to the distribution system.





AGROINDUSTRY | SUCCESS STORIES

## Bianchini

#### Modernization of Rio Grande City production complex

- Modernization of Extraction, Milling, Tripper's Driving, Warehouses #2 and #3, Laminators #1 and #2, Sieve. Preparation, Flow Scale, Dryer and Pier Towers procedures;
- 8,000 I/O points and 1,000 hardware items with remote supervision and control;
- The implementation of the redundant system has improved the production in about 30%.

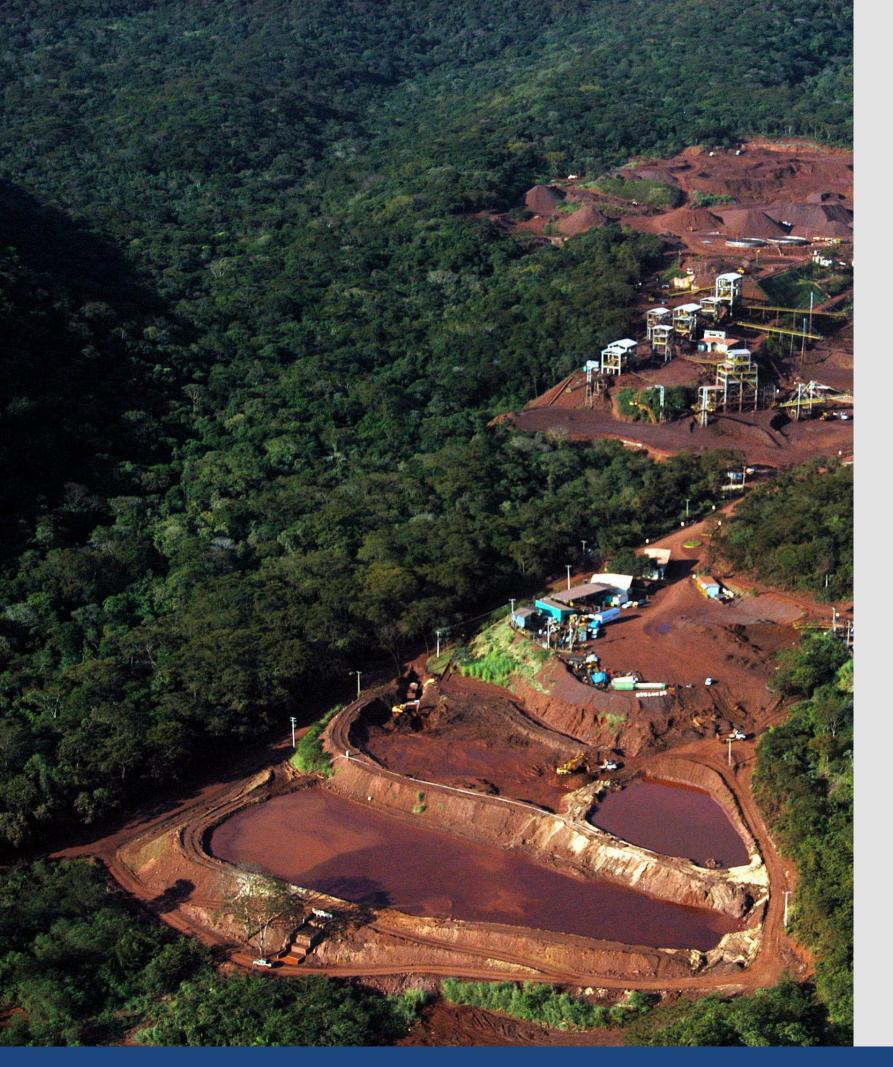
### FOOD AND BEVERAGES SUCCESS STORIES

## Seara

## Automation of more than 90% of Gaspar's unit

- Control and supervision of the unit's following processes: reindeer, treatment, bottling and loading of oils and margarine;
- Application with more than 4,000 I/O points and nine supervision points.





MINING | SUCCESS STORIES

## Vale Corumbá

#### Iron ore extraction plant automation

- Supply of electric project and redundant PLC control system, network HMI, Profibus-DP remotes and distributed I/Os for Corumbá's unit iron ore extraction process operation;
- Application with ring field networks, optical communication link and more than 700 I/O points.

WATER & WASTEWATER | SUCCESS STORIES

# Sabesp

## More than 100 units automated with Altus technology

- Altus has been a technological partner to Sabesp for more than 20 years;
- Our technological solutions are used in different applications and processes of the company, such as the treatment of water and effluents, pumping stations, reservoirs, macromeasurement systems, among others;
- The products used in many solutions developed by the company feature telemetry and teleoperation for supervision and operation of all processes.





TEXTILE | SUCCESS STORIES

## Vicunha

Automation of machines and processes for textile industry

- Largest textile industry in Latin America, with indigo and jeans manufacturing as main process;
- More than 200 controllers and 25,000 I/O points deployed on units I, II and III, controlling machines and processes, such as boilers, scrapers, mercerizers, among others;
- About 40% of the national indigo and jeans production is done with Altus technology.



Complete solutions for control and supervision of fuel loading in different modes of transport.

 Reliability and safety on the preparation of products for road, rail and hydro transportation, monitoring the process since the placement of the order to its delivery to the gas station.



LOADING BASE | SUCCESS STORIES

# Ipiranga AutobasiWeb

#### **Fuel loading control system**

- Gasoline, ethanol and Diesel load supervision;
- Vehicle, users and scheduled loads control;
- Volume and temperature control;
- Web interface for registration and configuration of parameters, products movement and stock management.







OEM MACHINES | SUCCESS STORIES

## Pavan Zanetti Blowers

Development of the Blowers Continuous Extrusion control system

- Supply of hardware, development of software and follow up of all steps of planning, execution and post analysis of the project;
- The solution enabled the machine to execute the backward and forward moves of the table, as well as the control of thickness of the blown containers in a very short time: Less than 3 ms.











Become a specialist in Altus Technology



Regular training agenda



Special and in-company courses, in accordance to the needs of customers



Training for all product lines





85% of cases solved in up to 2 hours



Specialized technical support



Online base of knowledge with support material



**Capable of producing world-class products** 



50.000 components/hour



RoHS compliant



São Leopoldo Rio Grande do Sul

#### **PROCESSES:**

- SMT electronic assembling
- PTH electronic assembling
- Mechanical complementation and functional tests
- X-Ray inspection and visual equipment



Complete infrastructure for the development and testing of large projects



3,500 m2 of modern environment



Special rooms for Factory Acceptance Tests (FAT)



Production of automation and power panels



Sapucaia do Sul Rio Grande do Sul



#### A multidisciplinary team composed by professionals with different skills

We believe in people's potential, hence, we put efforts in the development and maturing of people's talents through the investment of continuous education and specialization. Today, we count on a multidisciplinary team formed by highly skilled proffessionals with vast experience, which is a true selection of stars!



#### Community and company working together for the society

Our concept of social responsibility considers not only personal and professional growth of our employees, but also the promotion of education, culture and entertainment of communities which have a connection with us. Our actions seek to contribute for a more conscious society, involved with their own needs.

































































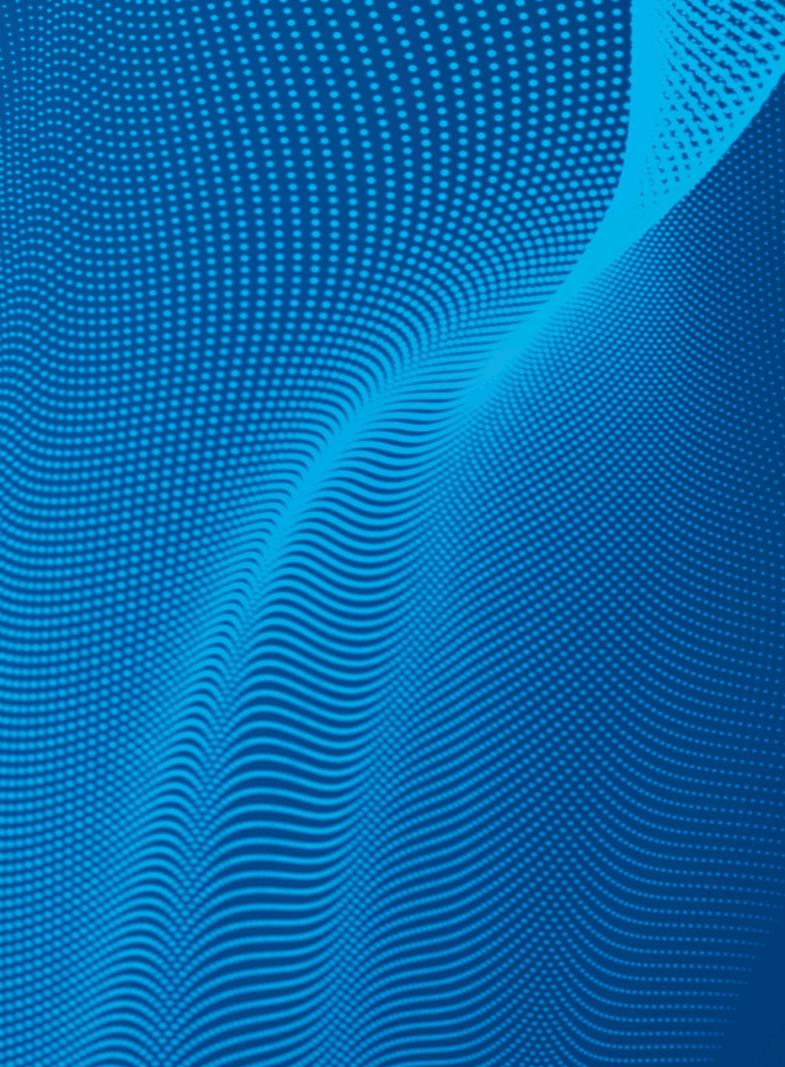


















**KNOW MORE ABOUT OUR PRODUCTS** AND SOLUTIONS www.altusind.com



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