

HIDROBR

Corporate Presentation 2024

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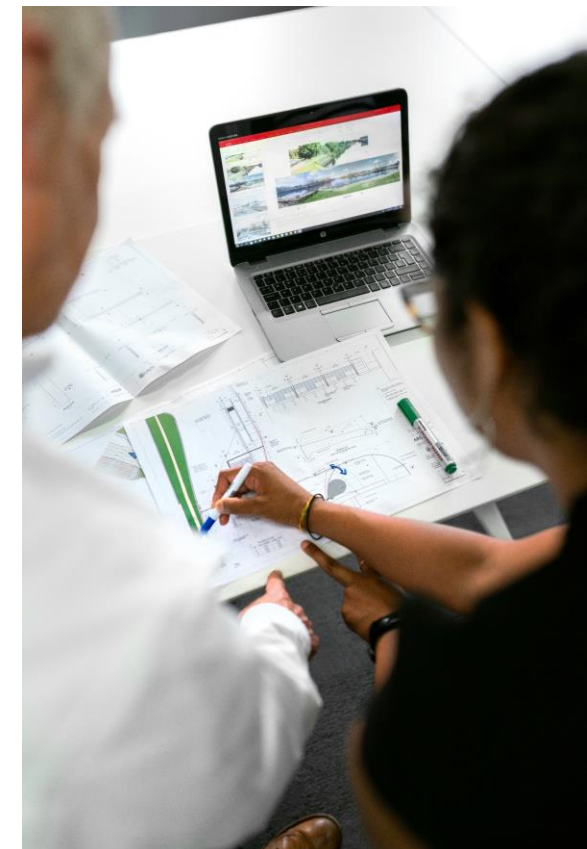
About HIDROBR



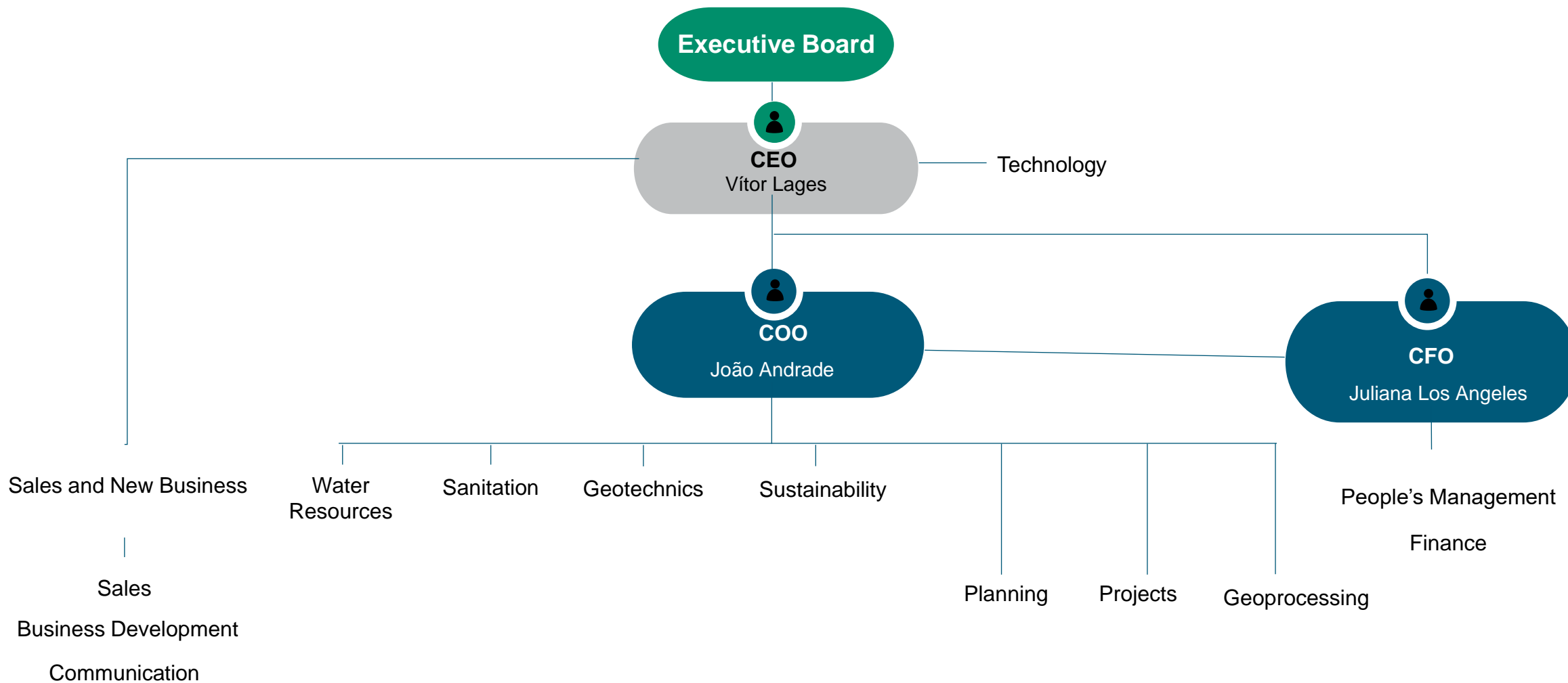
HIDROBR is a company focused on engineering solutions and was born with the objective of bringing a differentiated performance to the market. With services in the **Mining, Energy, Sanitation and Infrastructure** sectors, we offer technical capacity, innovation, competence and sustainability in all projects.



We are committed to offering excellence in all our solutions, and we place ourselves as true partners of our customers, working closely to find the best solutions for the public, private and academic sectors in the areas of **Water Resources, Sanitation, Sustainability, Geotechnics and Technology.**



Organizational chart



Organizational culture



PURPOSE

Transforming challenges into accomplishments!



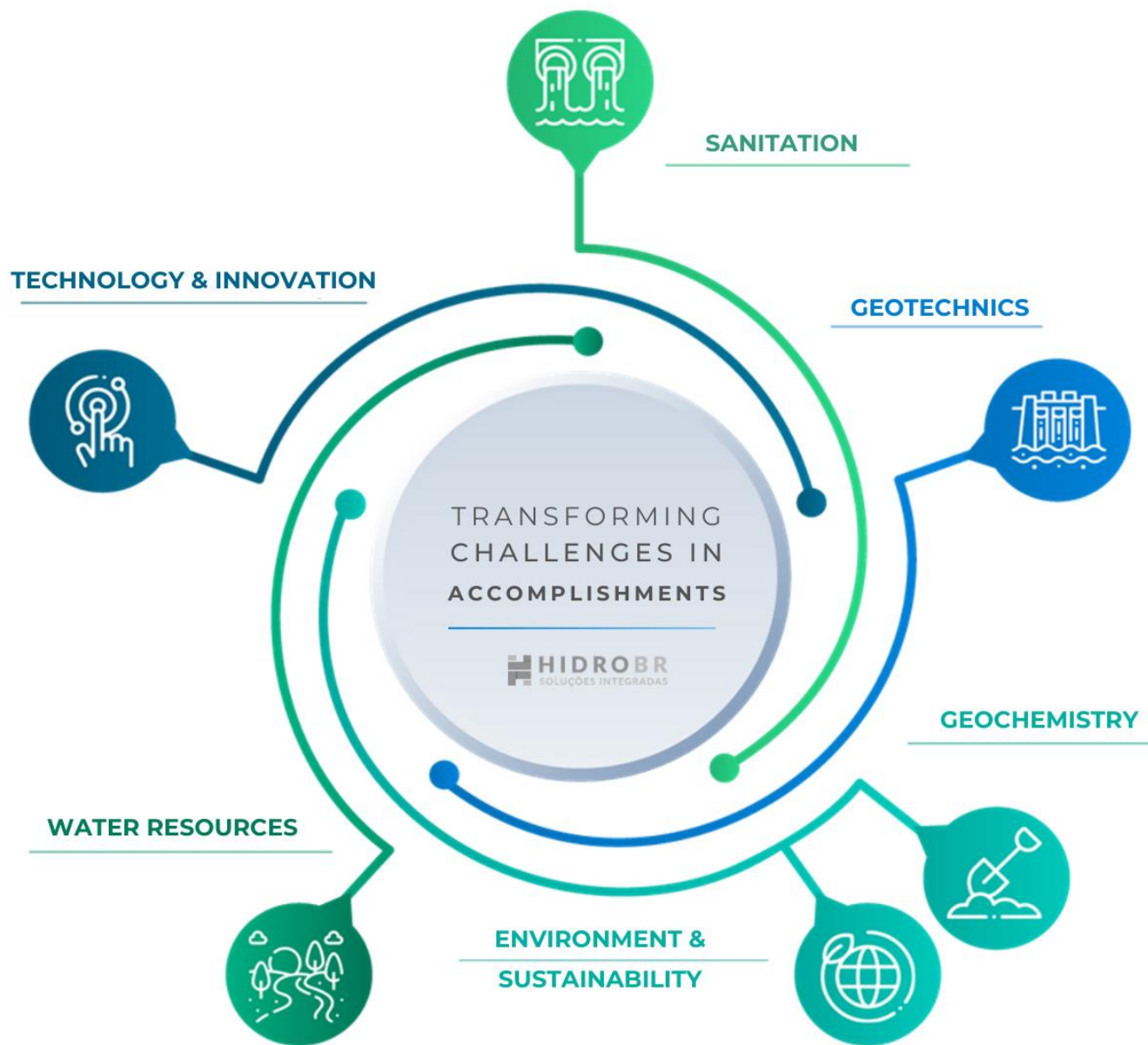
VALUES

- People first;
- Constant pursuit of technical excellence;
- Be a partner and collaborative;
- Be adaptable and innovative.



VISION

To be recognized for the ability to solve engineering challenges in an ever-changing world.



Water Resources



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SOLUÇÕES INTEGRADAS

Water Resources



- Granting of water resources use rights
- Reservoir siltation modeling
- Design of sediment containment systems
- Hydrometeorological and sedimentological monitoring plan
- Hydrogeological modelling



- Risk Assessment of Hydraulic Structures
- Hypothetical dam failure studies(Dam Break)
- Hypothetical pile rupture studies
- Evaluation of synergistic effects between piles and dams



- Energy studies
- Studies of heavy rainfall
- Water balance of reservoirs and industry
- Fluvial hydraulics and flood control
- Projects of hydraulic surface drainage structures
- Design of dam discharge systems (spillway)



- Emergency Action Plan(PAE)
- Operationalization and training associated with the Emergency Action Plan (PAE)
- Verification and peer review of Hypothetical Rupture Study and PAE (DCO - Declaration of Conformity and Operability)
- Water Quality Modeling
- Turbidity Modeling

Geotechnics



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Geotechnics



- Geotechnical projects of different levels (conceptual, basic and detailed) for dams, piles and pits
- Geotechnical studies (stability, percolation, stress x strain)
- Manuals and procedures for operation, maintenance and monitoring of dams and piles



- Contingency Plan
- Dam Safety Plans
- Loan Material Search
- Projects for the recovery of degraded areas
- Slope stabilization



- Engineer of Records (EoR)
- Geological mapping
- Geotechnical monitoring



- Mine Decommissioning Plans & Projects;
- Security Audit
- Tailings disposal plan
- Risk Management Process



Sanitation



Sanitation



- Studies of surface and underground water catchment systems
- Treatability Studies of Water Treatment Plants for Human Supply
- Treatability Studies for Industrial effluents



- Project for the Treatment of Final disposal of Urban Solid Waste
- Management Projects and Concession Modeling
- Loss Reduction



- Design of Water Supply Systems in Producer Systems
- Hydraulic Modeling of Water Reservation and Distribution Systems
- Design study for water supply and sewage systems
- Conceptual, Basic and Detailed Projects of Water Supply and Sewage Systems



- Sanitation Plans
- Economic modeling, tariff studies and investment mechanisms
- Audits, Verification, Certification and Asset Management





Sustainability



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Sustainability



- Sustainability audit
- Life Cycle Assessment
- Environmental Impact Assessment
- Disaster repair consulting



- GHG Inventory and Carbon Credit
- Environmental licensing
- Climate adaptation plan



- Consultancies specialized in geochemical processes
- Management of contaminated sites
- GRI and Integrated Reporting
- Project for the recovery of degraded areas



- Decarbonization and sustainability plan
- Closure and decommissioning plan
- Environmental studies: PCA and RCA



Tech. & Innovation



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Tech. & Innovation



SYSTEMS DEVELOPED

- Water resources management web platform
- Social registry system
- Dam management web system
- Web simulator for calculating charges for granting water resources
- Tool for carrying out hydrological studies (analysis of maximums, minimums, statistical tests)
- Tool for automated generation of elevation-area-volume curves
- Tools for post-processing modeling data (e.g. RiverFlow2D, HEC-RAS)
- Automation of dam safety factor calculations

SERVICES

- Connections to public databases, data acquisition and processing;
- Integration with geoprocessing software (QGIS)
- Creation and management of databases, with interactive visualization and issuing of alerts and/or reports.

Main clients



Main clients





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