



C O R T E X



# SUMMARY

- 05** Scenario
- 17** CORTEX
- 41** Orion
- 61** Solutions
- 79** Scope
- 95** Recent Projects
  - 97** United States Embassy
  - 99** Italian Embassy
  - 101** IDB/BID
  - 103** ARENA BSB
  - 105** INEP
  - 107** ELETROBRAS
  - 109** CADE
  - 111** CNJ
  - 113** NEOENERGIA
- 115** Differentials
- 121** Office



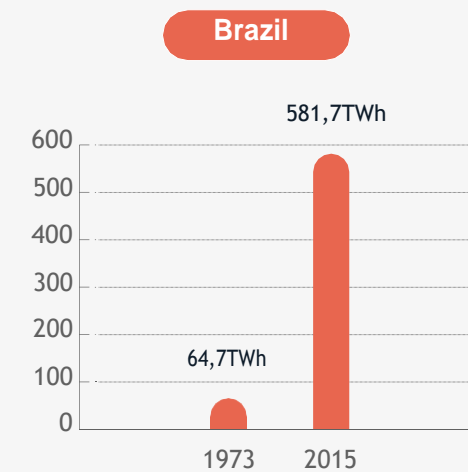
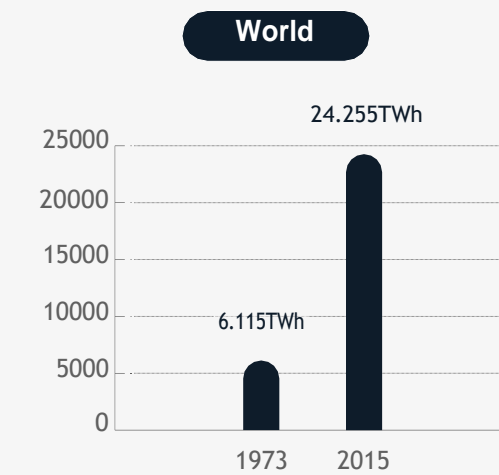
## SCENARIO



## MORE RESOURCES. MORE CONSUMPTION.

To fuel the growth projections for the population, it will be necessary three planet Earths to provide the natural and indispensable resources in order to maintain humanity's current lifestyle, according to a recently published report by the International Bank for Reconstruction and Development (IBRD)

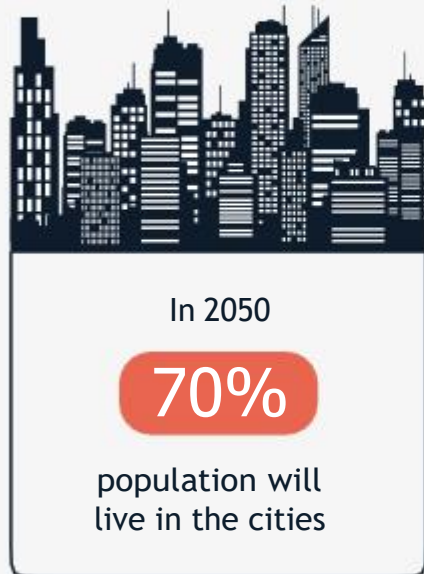
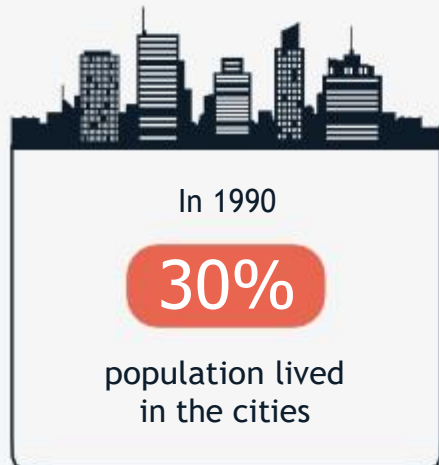
### ELECTRIC SOURCES



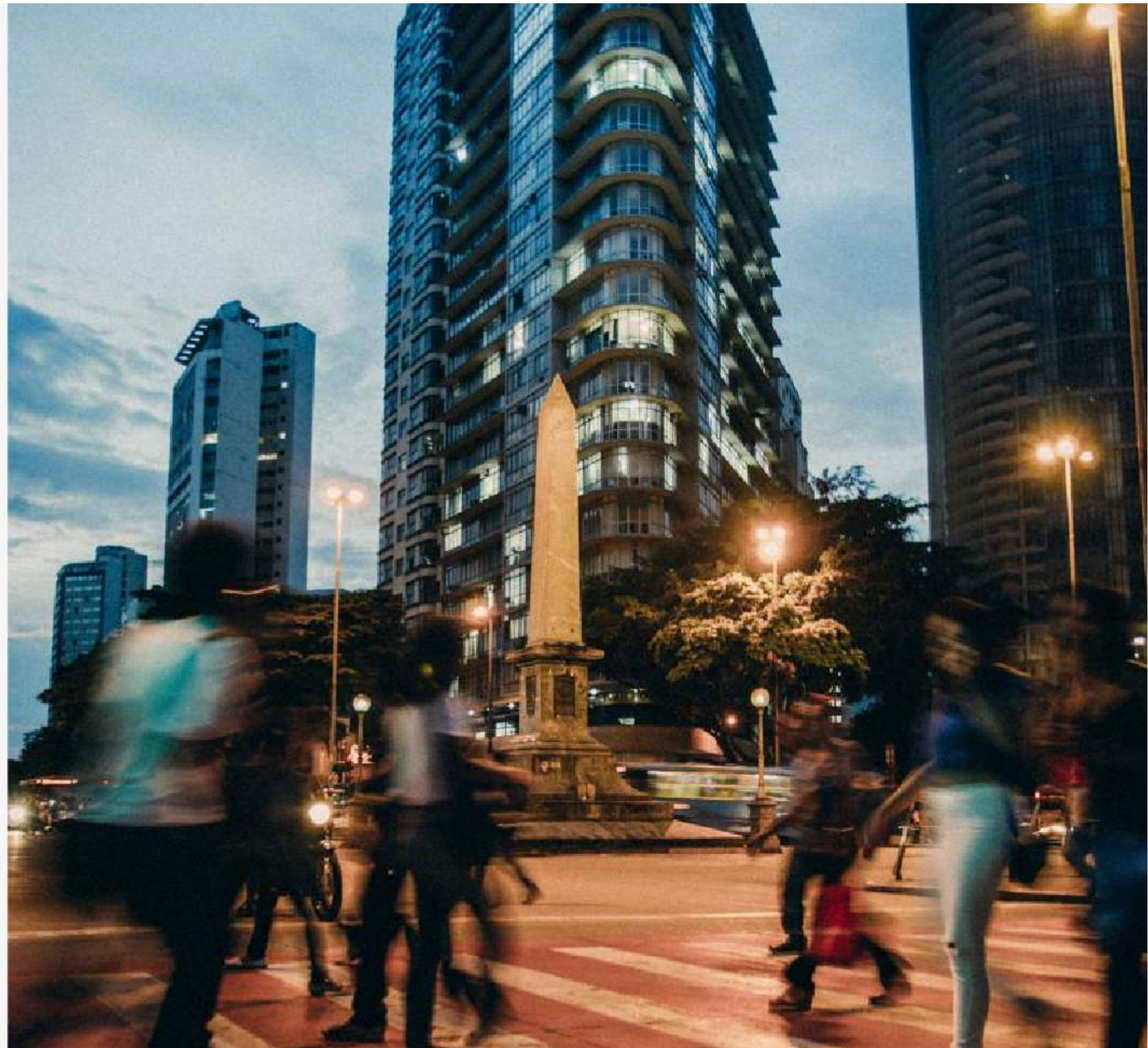
Source: Ministry of Energy

# DENSER. MORE POPULATED.

In 1950, the urban population accounted for 30% of the world. The current estimate is that, just one hundred years later (in 2050), the urban population will account for 70% of the world. In order to keep up with this burst of urbanization, it will be necessary a new vision for planning, use of urban spaces and technologies applied to the cities and its buildings..



Source: UN



POPULATIONAL GROWTH

• 400.000   ● 4 millions   ● 40 millions

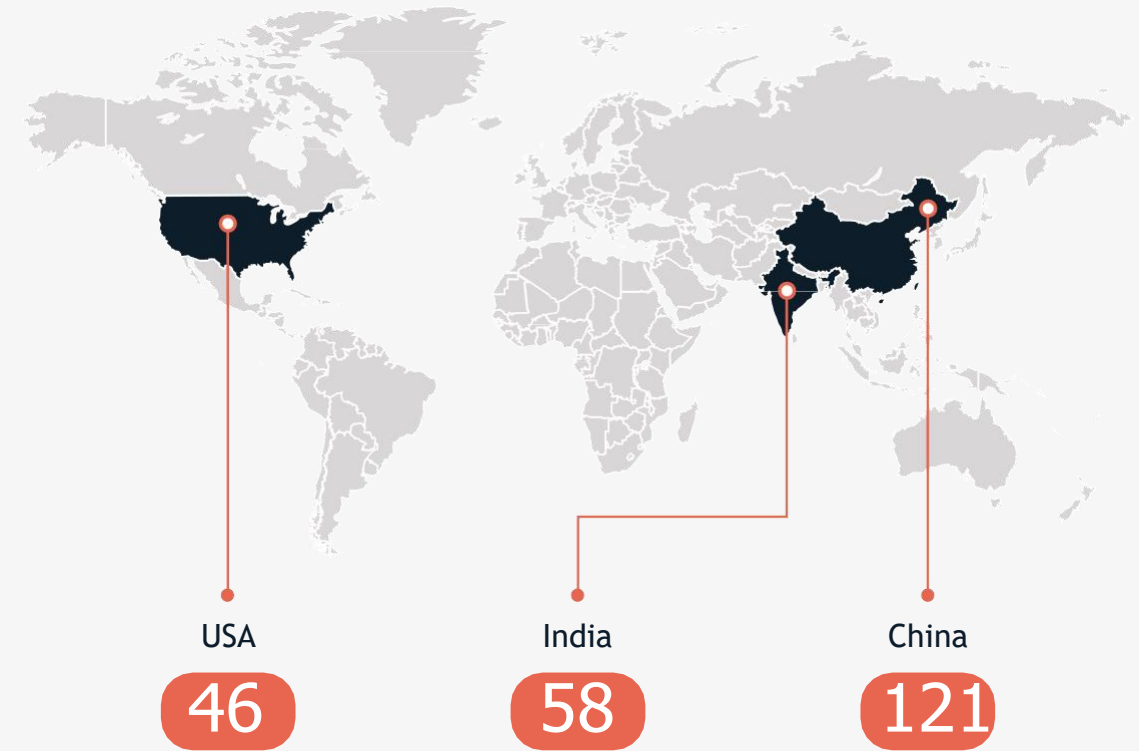
1950



2050



URBAN SETTLEMENTS WITH MORE THAN 1 MILLION INHABITANTS IN 2020



Source: UN Population Division



## **EFFICIENT. AVAILABLE. SUSTAINABLE.**

At a rapid pace of populational growth and increasingly focused on big urban centers, we became dependent of infrastructures that support and supply our cities and buildings. This scenario makes it imperative to choose projects, deployments and operations that are more sustainable and efficient, resulting in lower environmental impact and reduced operative cost when compared to traditional buildings.

## **COMPLEXITY AND INCREASING DIGITALIZATION**

Due to the great complexity and digitalization of building infrastructure, it has become necessary to adopt new models of engineering and management services supported by technological resources capable of increasing efficiency and availability, guaranteeing sustainability, improving the health, well-being and safety of users and reducing the total cost of operation.

# PROFITABLE. ECONOMICAL.

## EXAMPLES OF AVERAGE SAVINGS IN SMART AND CERTIFIED BUILDINGS



40% drinking water, 30% energy and 35% CO2.



62% CO2 and 51% drinking water.



40 to 50% energy and 20 to 30% drinking water saving.



30 to 40% energy, 30 to 40% CO2 and 20 to 30% drinking water.



25% energy and 11% drinking water.

Source: GBC

We position ourselves as actors in the face of new challenges of buildings overall, ensuring comfort, security, high availability, efficiency, sustainability and reduced operational costs to the users.



MORE AND MORE CONNECTED



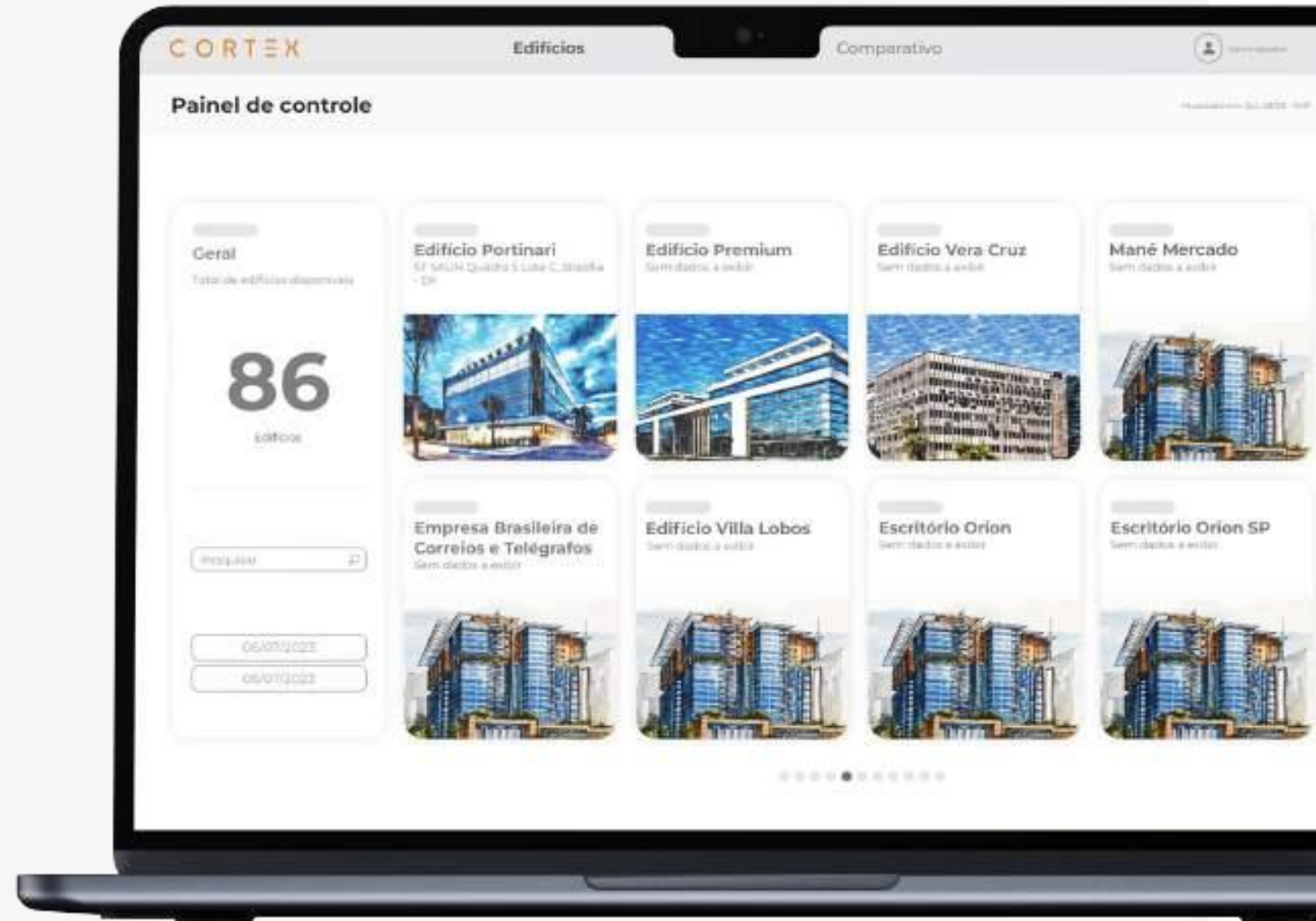


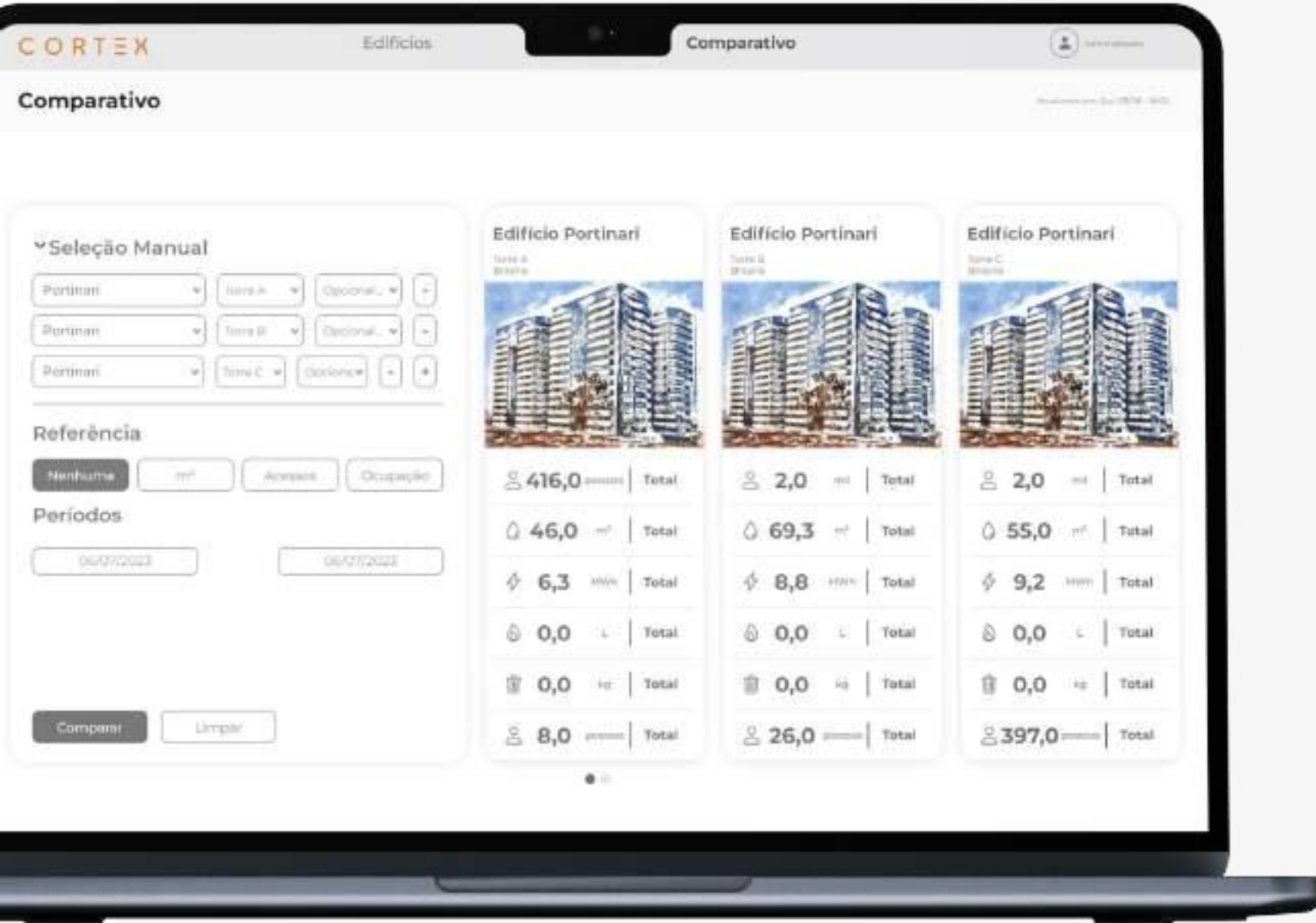


■ CORTEX

# CORTEX

Real-time management tool for all infrastructure sectors.





# PROPRIETARY TECHNOLOGY FOR HARDWARE, SOFTWARE AND FIRMWARE

## Custom-made

Proprietary IoT sensors that ensure independent operation of existing automation. Proprietary software that allows customization according to the customer's needs.

# MICROSOFT SECURITY CERTIFICATES

## Azure

Azure Database for PostgreSQL. Flexible server, encrypted data, TLS security protocols. Authentication in AZURE B2C using an authorization token to view the website, with the need for revalidation every 24 hours.





# AI

## Assertive predictions

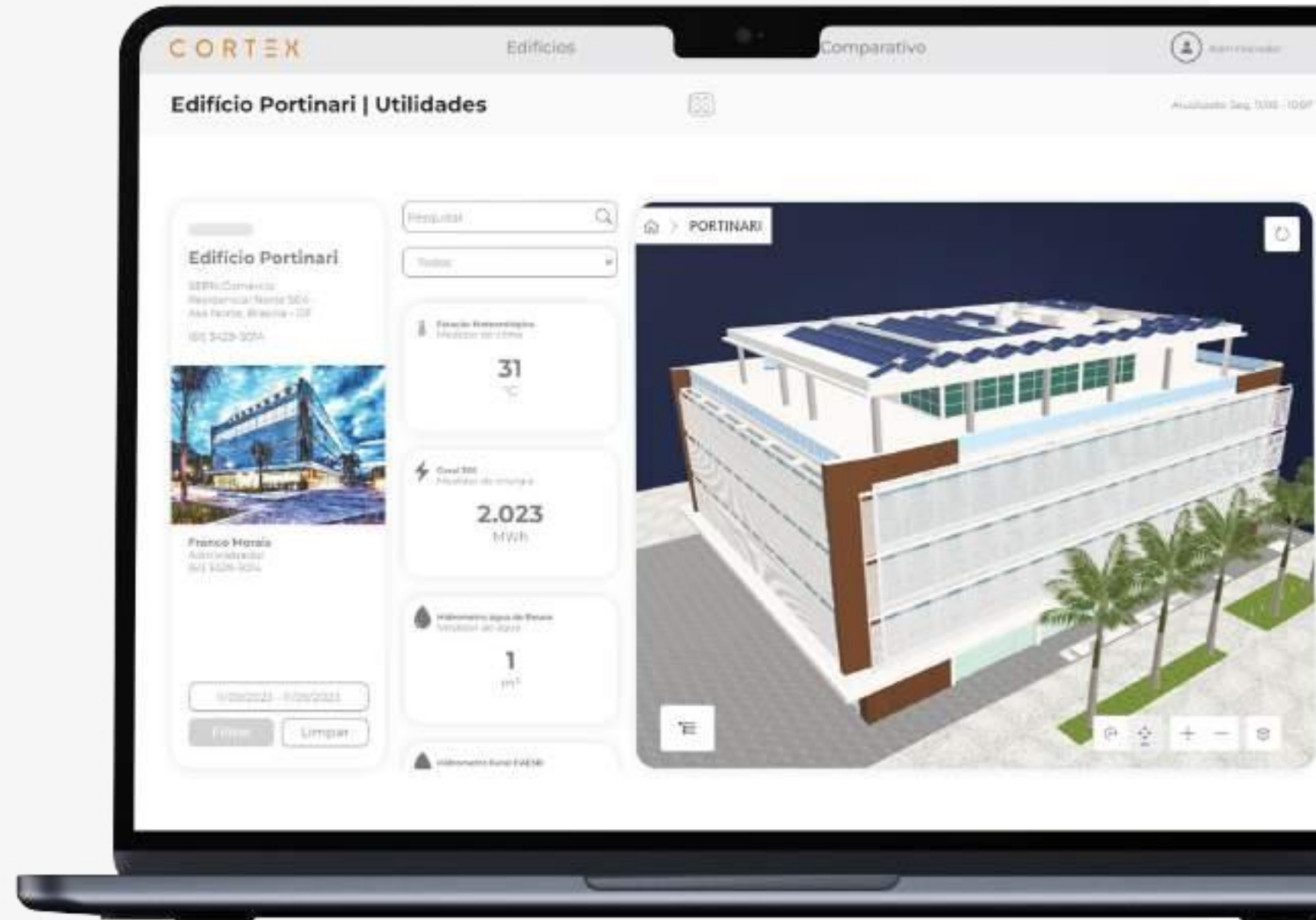
Possibility of predicting strategic data after 60 (sixty) days of using the CORTEX platform.

# ALARM CENTRALIZATION

## Simplicity

Unified management of all building infrastructure alarms. Possibility of receiving alarms through notifications on smartphones.

Visualization of a complete electronic model of buildings and their infrastructure components. Real-time visualization of alarms identified in the components of the electronic model.





# INTEGRATION WITH AUTOMATION SYSTEMS

## Cost reduction

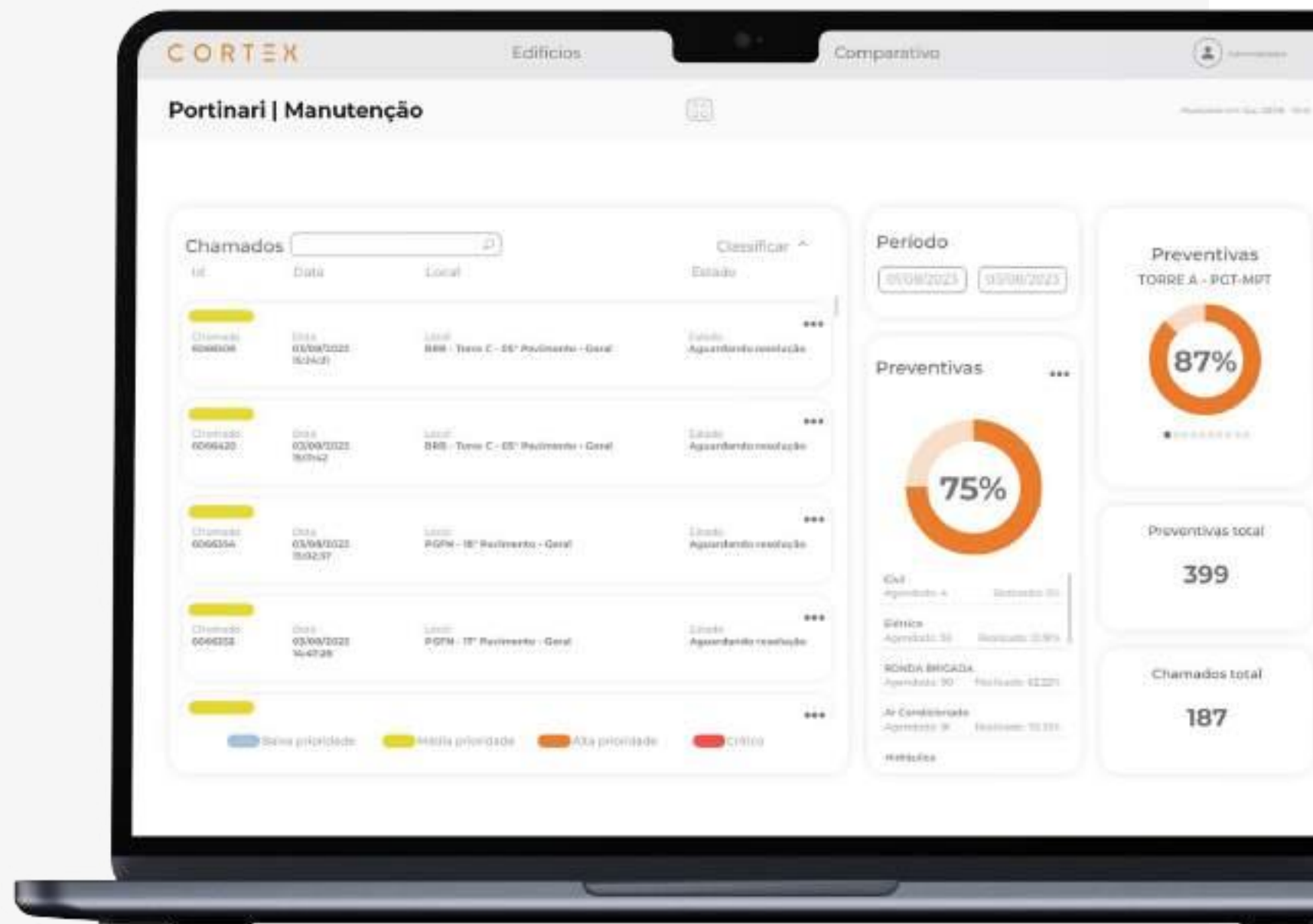
Integration with a large number of existing automation systems, generating a reduction in the total implementation cost.

Real-time data management from management dashboards customized to the specific needs of each project.

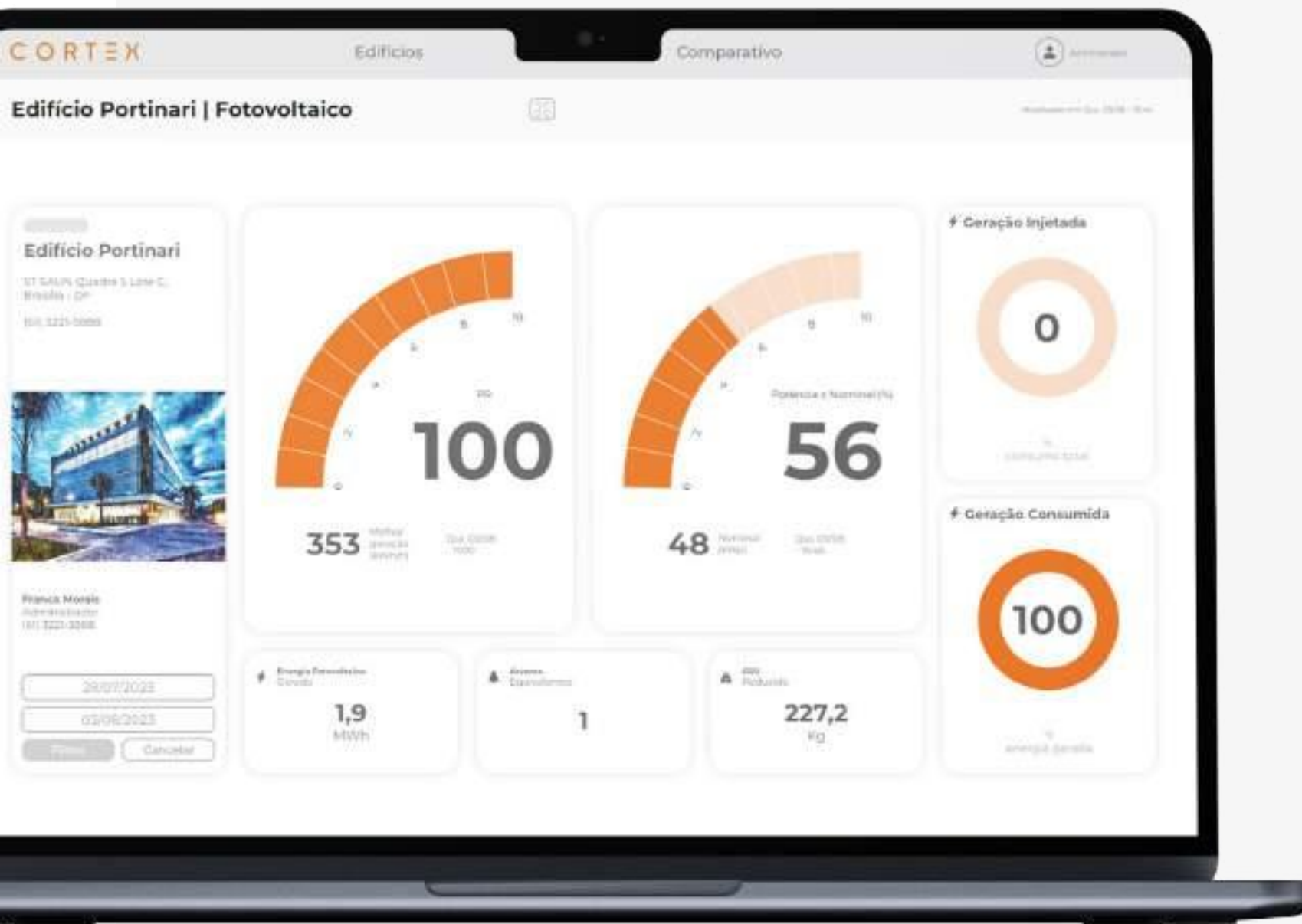
# INTEGRATION WITH MAINTENANCE SYSTEMS

## Integrated management

Increased operational efficiency and improved visualization of scheduled, running, delayed and completed tasks.







# INTEGRATION WITH PHOTOVOLTAIC SYSTEMS

## Integrated management

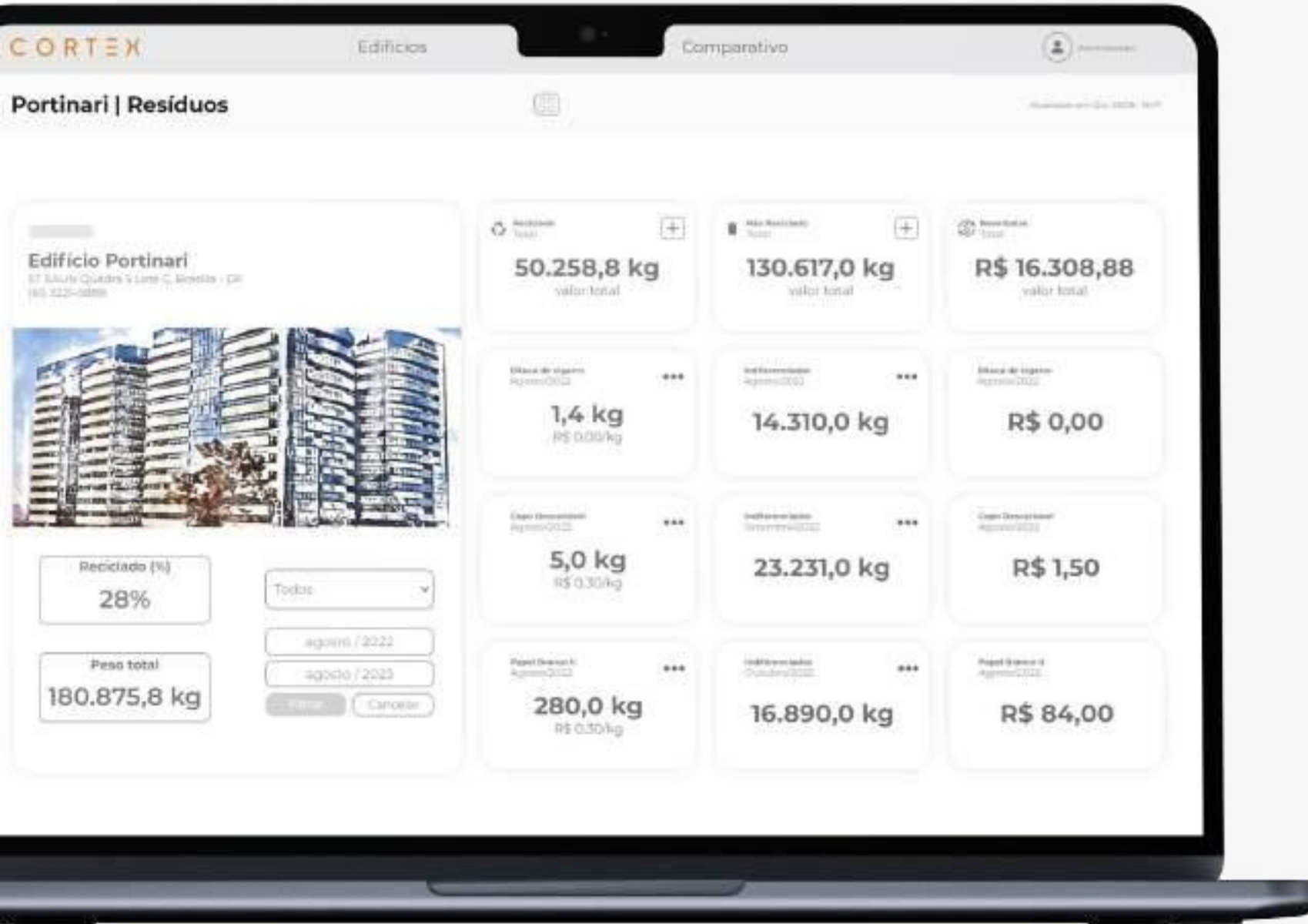
Integrated management of the performance of photovoltaic plants and buildings, allowing improved visualization and perfect understanding of the global scenario.

# MANAGEMENT OF ENERGY AND WATER BILLS

## Automatic filling

Simplified reading of electricity and drinking water bills, allowing automatic completion and detailed analysis of the data collected through Artificial Intelligence.





# WASTE MANAGEMENT

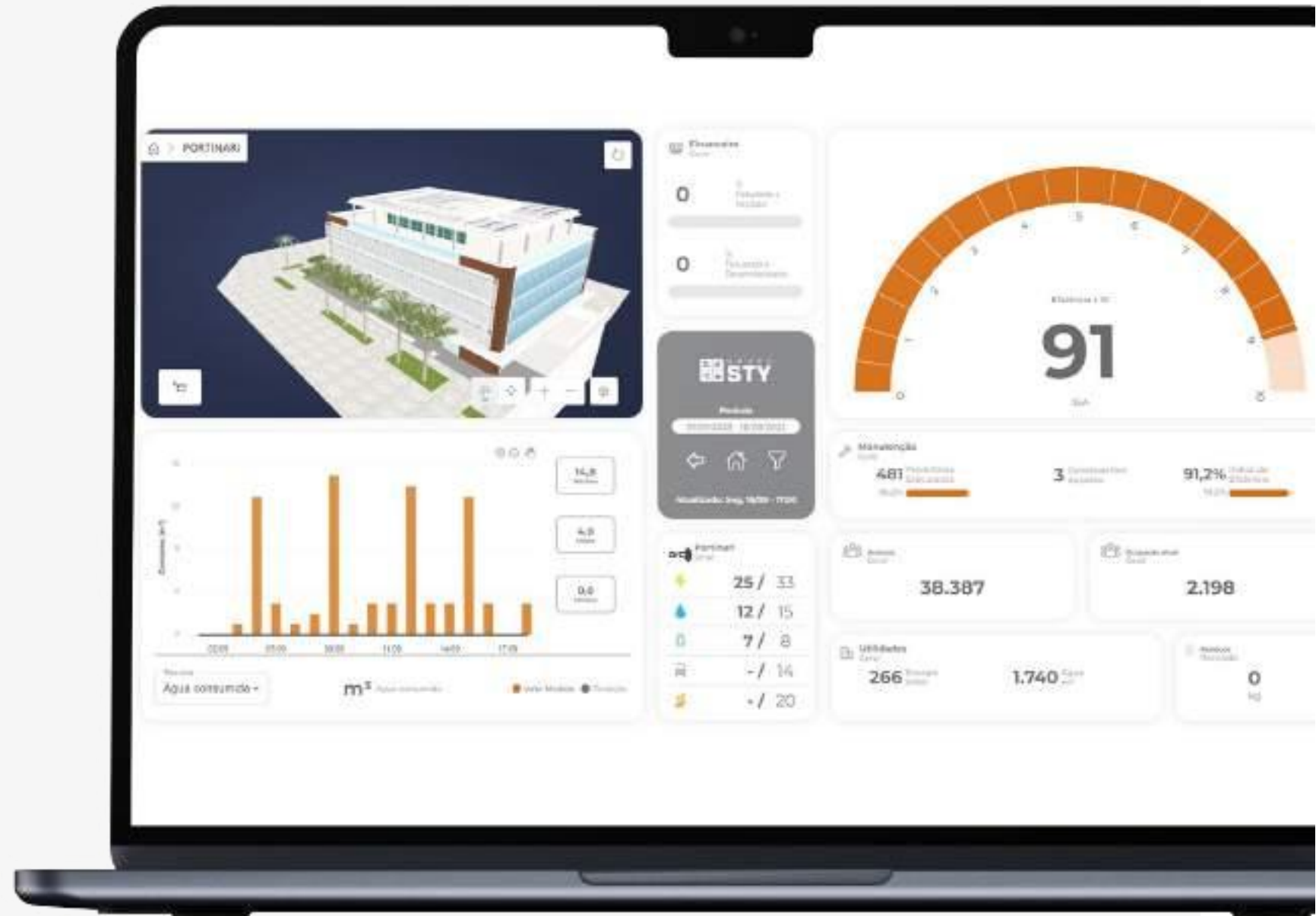
## Fast measurement

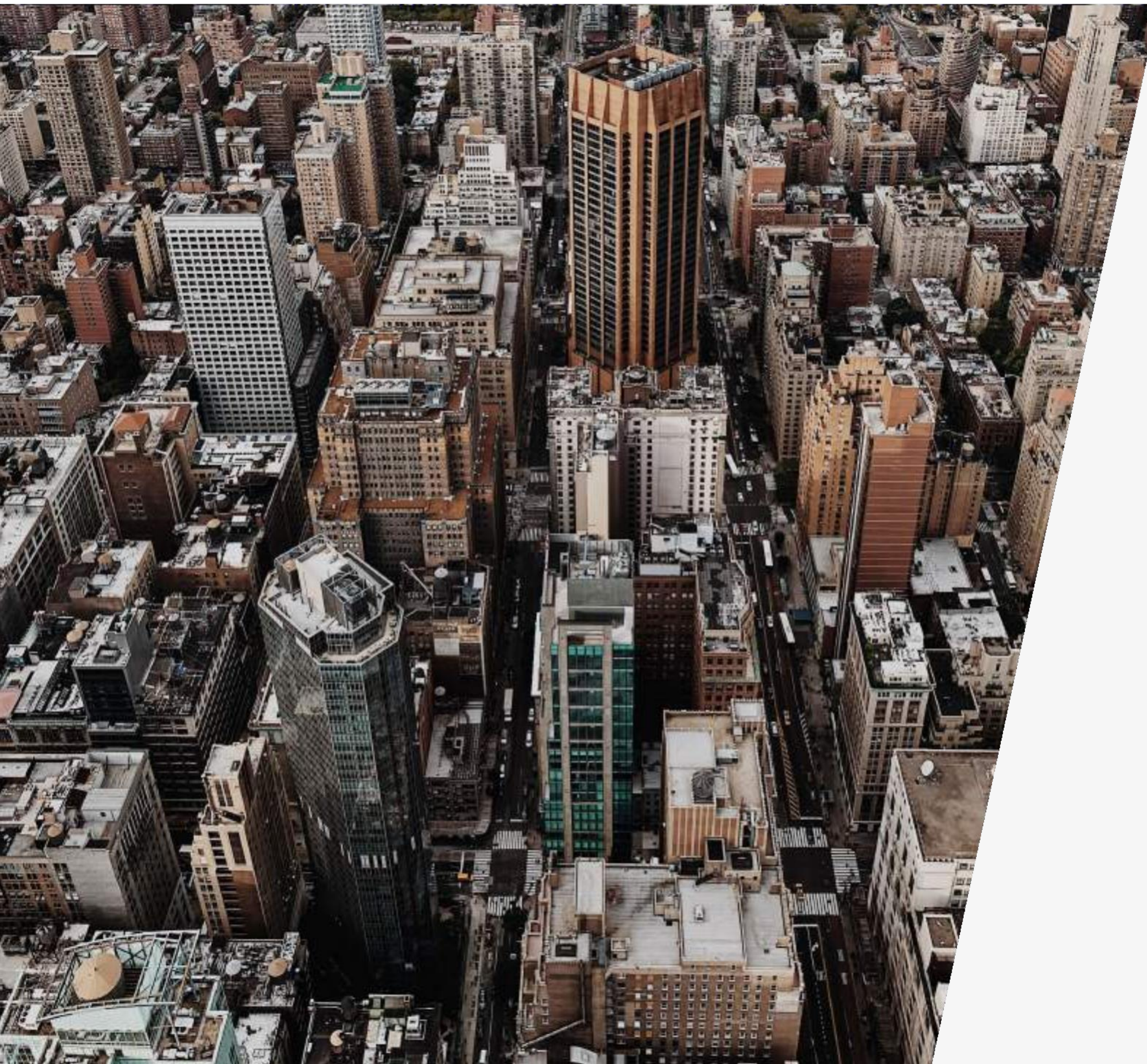
Possibility of inputting data manually or from a smart scale connected to the CORTEX platform. Measurement by type of waste and generating source.

# INTEGRATION WITH THE GBC ARC PLATFORM

## Agility

Invoices automatically sent by the CORTEX platform are directed to the ARC GBC tool, allowing quick identification of potential certifications and benchmarking for CORTEX users.





## ORION

*Complete solutions for  
building infrastructure.*

We are specialists in building infrastructure, developing solutions for the entire life cycle of a building, ensuring comfort, security, high availability, sustainability and cost reduction for users and companies.

We help our customers to create and maintain infrastructures suitable to the current and future needs.



## ORION IN NUMBERS



+ 25

More than 25 years of experience in infrastructure analysis



+ 300

More than 300.000 square meters of projects executed



+400

Collaborators



+300

Engineers, technicians and specialists across all subjects of building infrastructure.



+200

Buildings maintained and managed



+100

Mission-critical environments maintained and managed



+2.500

Assessment + feasibility studies



+1 million

users

## PROJETCS AND UNITS



### BRASÍLIA

SCS, Quadra 04, Bloco A, Edifício Vera Cruz

Brasília-DF

ZIP 70304-913

Phone (61) 3314-1099

### SÃO PAULO

Rua Apinajés, 1.594, Sumaré

São Paulo-SP

ZIP 01258-000

Phone (11) 3670-2222



## VALUES AND CULTURE

Our values and culture are passed on to employees based on continuous improvement, engagement and experience sharing programs

### COMUNITY

Employee acculturation process based on the assisted sharing of experiences and challenges, in addition to volunteer actions in the communities of our units.

### GOHUB

Internal discussion and training groups, in which an employee or partner provides training and presentations to the Orion team.

### COLAB

Startup formed by the Orion team for research and development of new information technology solutions. In this environment, we develop and test new processes that will be applied in our projects.

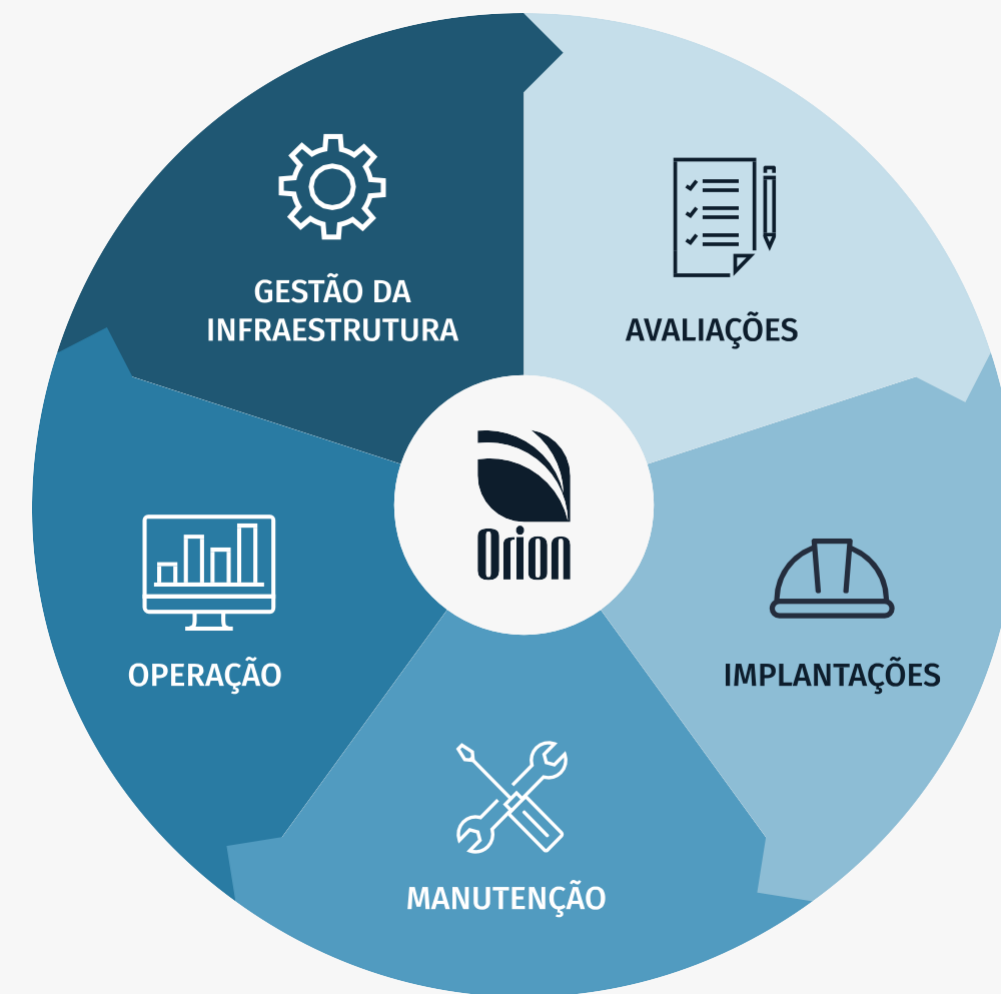
### GO TALKS

Events open to the general public, with the participation of market speakers, with the objective of sharing expertise, information and trends on key subjects in the world of building infrastructure.

## SCOPE

We develop solutions for the entire life cycle of building infrastructure, harmonically balancing technical and economic requirements.

The unified management of all chapters allows the elimination of gray Areas between multiple contracts, ensuring compliance with deadlines, targets, security, high availability, sustainability and reduction of the total cost of the infrastructure.



BUSINESS GROUP



LEED: Leadership in Energy and Environmental Design. LEED is changing the way we think about planning, building and operating buildings and communities. Leaders from more than 160 countries that use this certification as a reference have made LEED the main reference used to classify sustainable buildings.



PBQP: Brazilian Habitat Quality and Productivity Program. Established by the Brazilian Federal Government in 1998, it aims to promote quality and productivity in the civil construction sector, with a view to increasing the competitiveness of goods and services produced by it.



ISO 9001: Standard that certifies the quality management systems and defines the requirements for the implementation of the work methodology. Its standardization tools are a safe model for implementing quality management. The main objective is to give confidence to the consumer that the products and services of a company will be created and delivered in a systematic and consistent way.



5S PROGRAM: Methodology of Japanese origin for the organization of environments. It is made up of five principles that make employees aware of the importance of getting organized, meeting goals, caring for the work environment and proposing improvements for the collective well-being.



GREAT PLACE TO WORK: Diagnosis of the organizational climate based on the employees' perception of the company. To obtain this certification, a minimum score of 70% approval by employees on the organizational climate is required.





## SUPPLIERS

Orion has partnerships and experience with the main suppliers of infrastructure for national and international buildings. We work with leading manufacturers and integrators independently and impartially. Therefore, it is possible to choose the best technology and cost-benefit ratio for each of our clients and projects.



## CERTIFICATIONS

Certification is the guarantee that the solution delivered will have the quality designed and desired by our customers. Orion has certifications in professionals, processes and solutions, ensuring reliability and high standards in our projects.

Our work methodology is ensured by professionals certified by the Project Management Institute (PMI).

We have our own teams, redundant and certified to meet contracts, made up of engineers, technicians, specialists and managers, ensuring compliance with deadlines and targets, regardless of the location.

### Processes



### Solutions



### Professionals



## DOCUMENTATION

Orion's deployments and service contracts have all the manuals and documents necessary for the perfect monitoring and archiving of all phases of the project.

- Conception
- Implantation
- Approval
- Certification
- Documentation
- As built



## BIM

We rely on the support of the Building Information Modeling (BIM) platform for the design and architecture of our solutions, making it possible to digitally create accurate virtual models of our deployments and their functionalities. In this way, we offer advanced support throughout all phases of the project, allowing better analysis and control compared to the manual processes normally employed. We use the tool in the following phases:



Conception



Approval



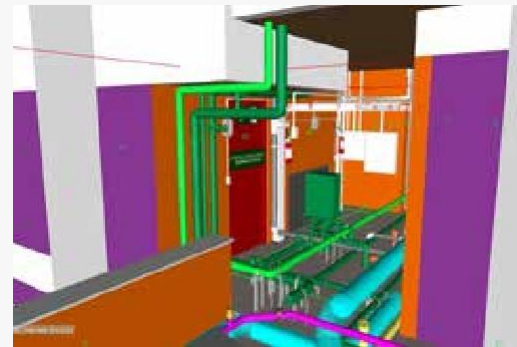
Implementation



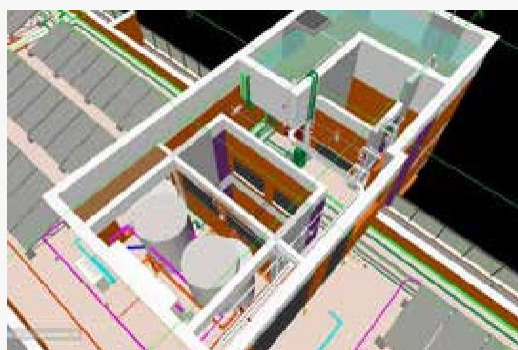
As built



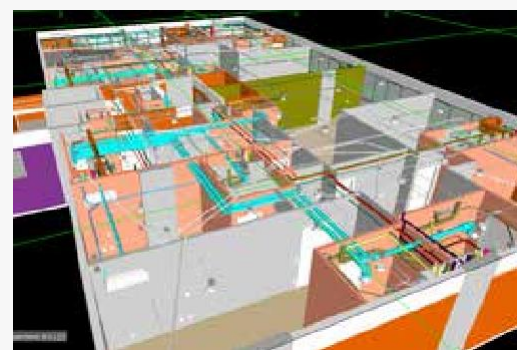
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Illustrative picture



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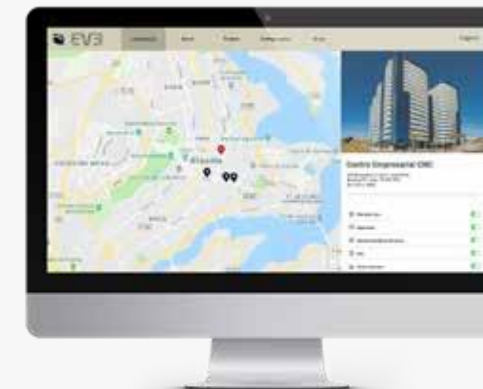


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## ARTIFICIAL INTELLIGENCE

Artificial intelligence system and integrated data management of the building infrastructure, developed by the Orion information technology team.

It allows the integration of multiple building automation and IoT technologies into a single system, simplifying actions by applying artificial intelligence solutions to infrastructure management.



Illustrative picture



Illustrative picture

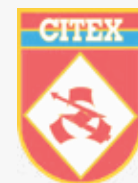
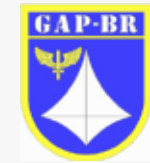


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CUSTOMERS







**HOW TO IMPROVE THE  
AVAILABILITY,  
SUSTAINABILITY AND  
EFFICIENCY OF BUILDING  
INFRASTRUCTURE?**



## SOLUTIONS

We are specialists in designing, implementing and maintaining infrastructures with characteristics of high availability, high efficiency and sustainability, guaranteeing our customers comfort, security and reduction of operating costs.

We evaluate, install, maintain, operate and manage all infrastructure solutions in a building. We work in an uninterrupted operational regime (24 hours a day, 7 days a week, 365 days a year), offering solutions with specific certifications for products and services, regardless of the complexity, quantity and location of the installations.



Illustrative picture





Illustrative picture

# NEW BUILDINGS

COMPLETE SOLUTIONS FOR BUILDING INFRASTRUCTURE

We work in all stages for the implementation of a new building, from the design phase to the complete startup. We guide and accompany our clients at all stages of the eventual certification process, presenting the best cost-benefit ratio for each of the intended projects.

We work in partnership with architecture offices and specific consultancies, offering additional certifications for health, well-being for users, improving sustainability and efficiency in a building.



# RETROFIT

## COMPLETE SOLUTIONS FOR MODERNIZATION AND IMPROVEMENTS

We carry out modernizations and improvements in the infrastructure of existing buildings in order to increase efficiency, sustainability and availability. We guide and accompany our clients at all stages of the eventual certification process, presenting the best cost-benefit ratio for each of the intended projects.

We work in partnership with architecture offices and specific consultancies, offering additional certifications for health, well-being for users, improving sustainability and efficiency in a building.



Illustrative picture

# COMMERCIAL BUILDINGS

*Infrastructures designed to support corporate, hotel, commercial and leisure operations.*



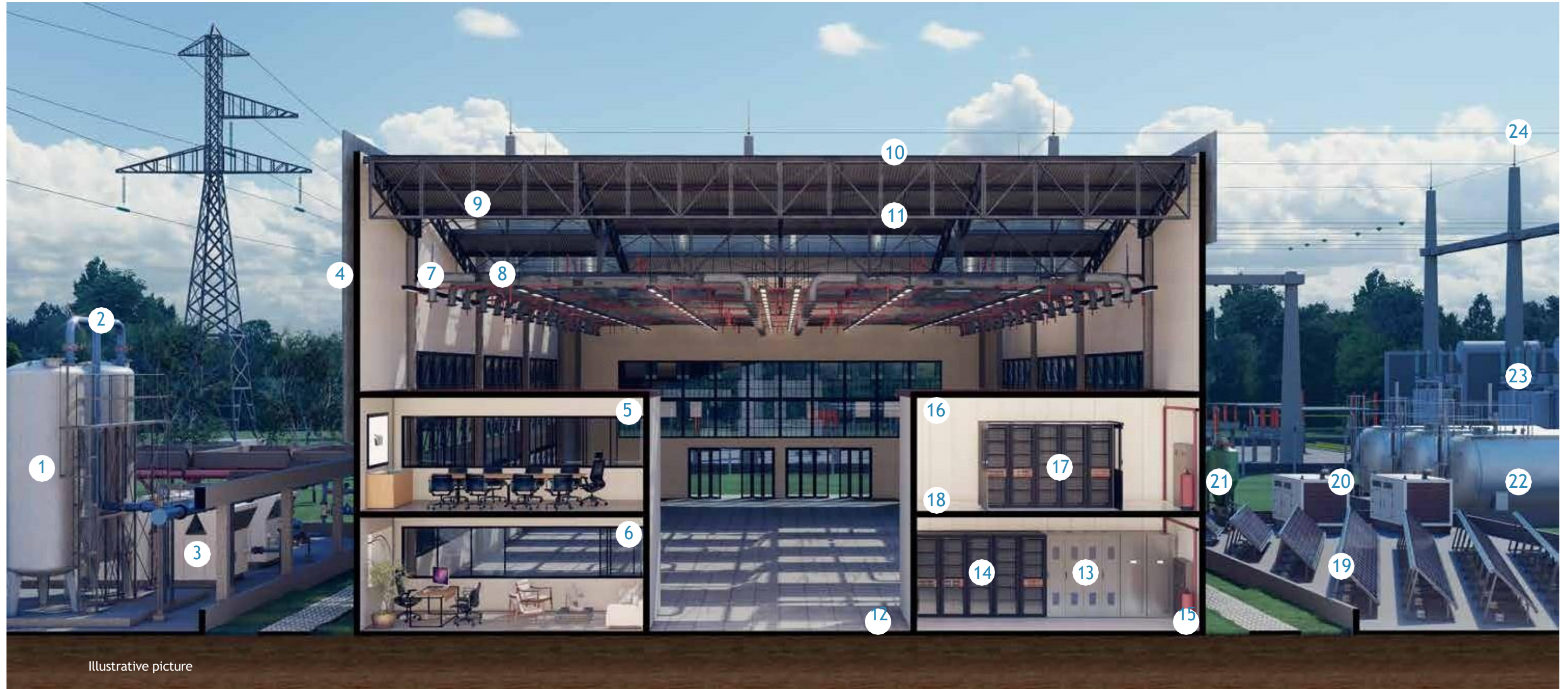
Illustrative picture

Scope:

1. Garage
2. Front desk
3. Desk
4. Elevators
5. Photovoltaic system
6. Drinkable water
7. Air conditioning
8. Sanitary
9. Cafeteria
10. Facade
11. Food court
12. Stores
13. Escalator
14. Locker rooms
15. Generators
16. Laundry
17. Fire System
18. Drinkable water
19. Reuse water
20. Boilers
21. Auditorium
22. Leisure court
23. Hospitality
24. Shared spaces
25. Roof
26. Lighting protector system
27. External Area

# INDUSTRIAL BUILDINGS

*Infrastructures destined to support the industrial and logistic operation.*



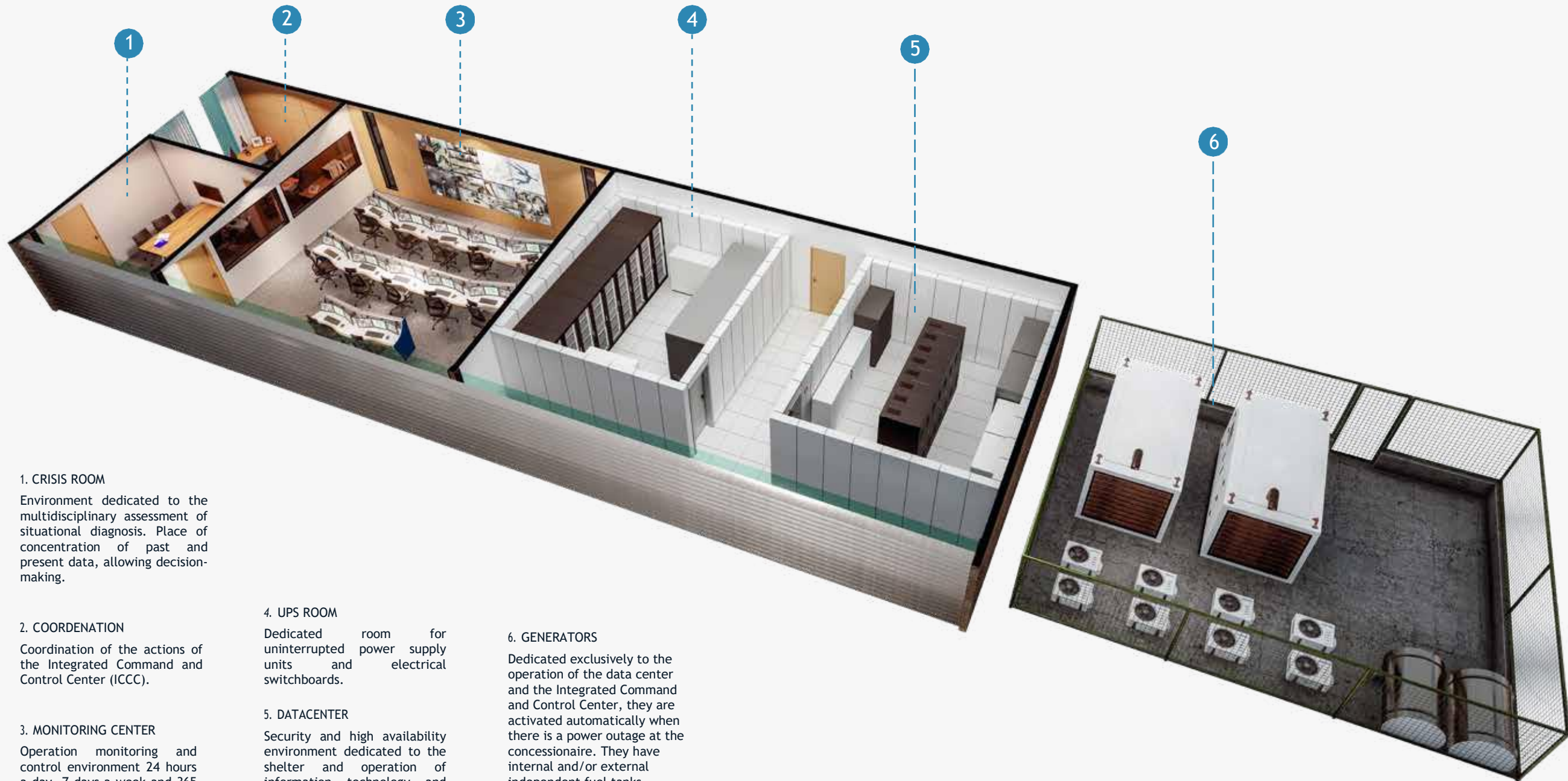
Illustrative picture

Scope:

- |                     |                  |                        |                        |                         |                    |                           |                                |
|---------------------|------------------|------------------------|------------------------|-------------------------|--------------------|---------------------------|--------------------------------|
| 1. Reservoirs       | 4. Facade        | 7. Ventilation         | 10. Roof               | 13. Panels and cabinets | 16. Datacenter     | 19. Photovoltaic system   | 22. Industrial gases           |
| 2. Piping           | 5. Meeting rooms | 8. Artificial lighting | 11. Metallic structure | 14. UPS                 | 17. Racks          | 20. Generators            | 23. Substation                 |
| 3. Air conditioning | 6. Offices       | 9. Natural lighting    | 12. Slab               | 15. Fire System         | 18. Elevated floor | 21. Compressed air system | 24. Lighting protection system |

# DATA CENTER INDOOR

Complete solutions for mission-critical infrastructure deployed inside existing buildings.



**1. CRISIS ROOM**

Environment dedicated to the multidisciplinary assessment of situational diagnosis. Place of concentration of past and present data, allowing decision-making.

**2. COORDINATION**

Coordination of the actions of the Integrated Command and Control Center (ICCC).

**3. MONITORING CENTER**

Operation monitoring and control environment 24 hours a day, 7 days a week and 365 days a year.

**4. UPS ROOM**

Dedicated room for uninterrupted power supply units and electrical switchboards.

**5. DATACENTER**

Security and high availability environment dedicated to the shelter and operation of information technology and communications equipment.

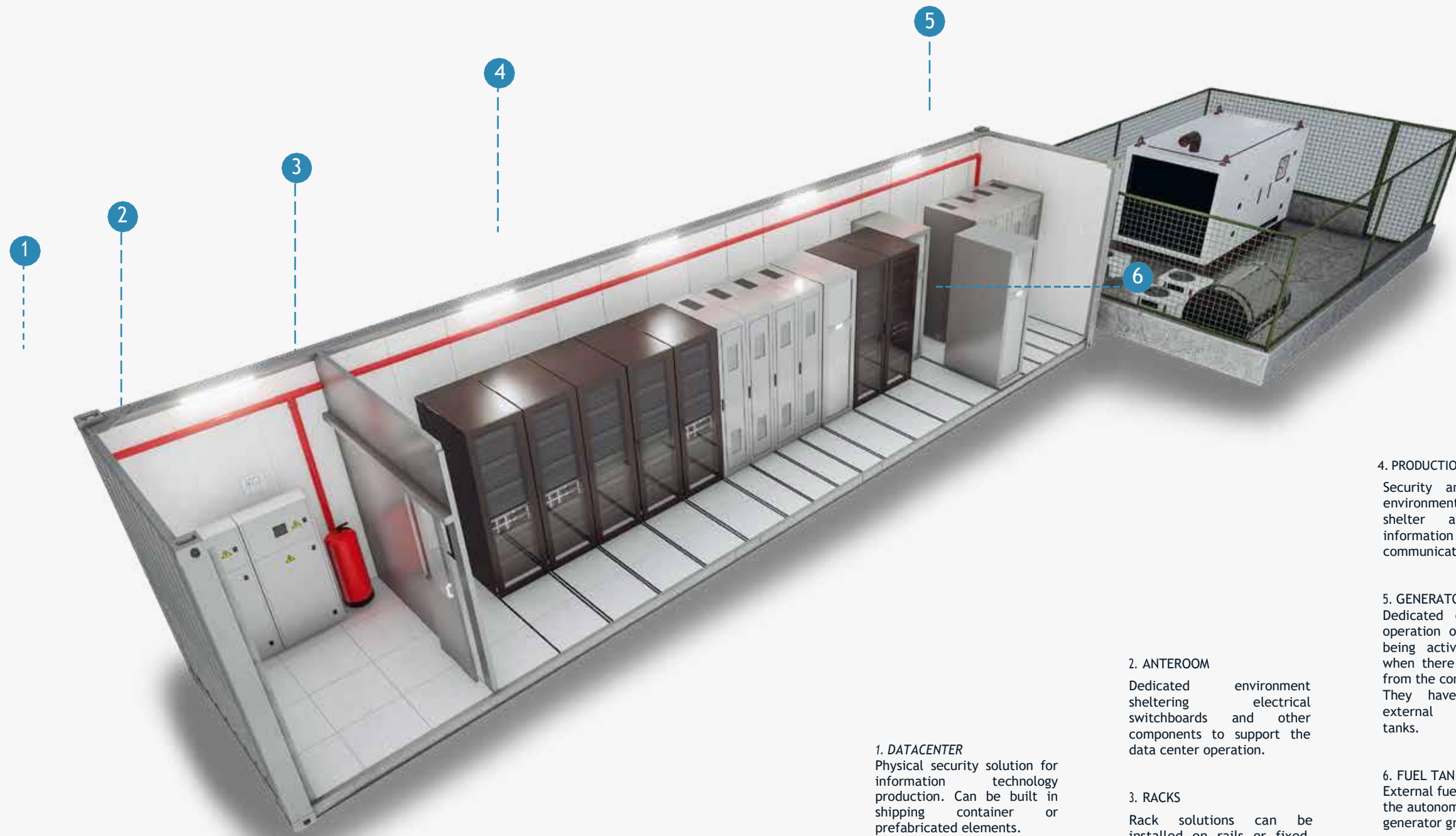
**6. GENERATORS**

Dedicated exclusively to the operation of the data center and the Integrated Command and Control Center, they are activated automatically when there is a power outage at the concessionaire. They have internal and/or external independent fuel tanks.

Illustrative picture

# DATA CENTER OUTDOOR

Complete solutions for mission-critical infrastructure deployed outside existing buildings.



Illustrative picture

**1. DATACENTER**  
Physical security solution for information technology production. Can be built in shipping container or prefabricated elements.

**2. ANTEROOM**  
Dedicated environment sheltering electrical switchboards and other components to support the data center operation.

**3. RACKS**  
Rack solutions can be installed on rails or fixed, depending on the nature of the data center.

**4. PRODUCTION**  
Security and high availability environment dedicated to the shelter and operation of information technology and communications equipment.

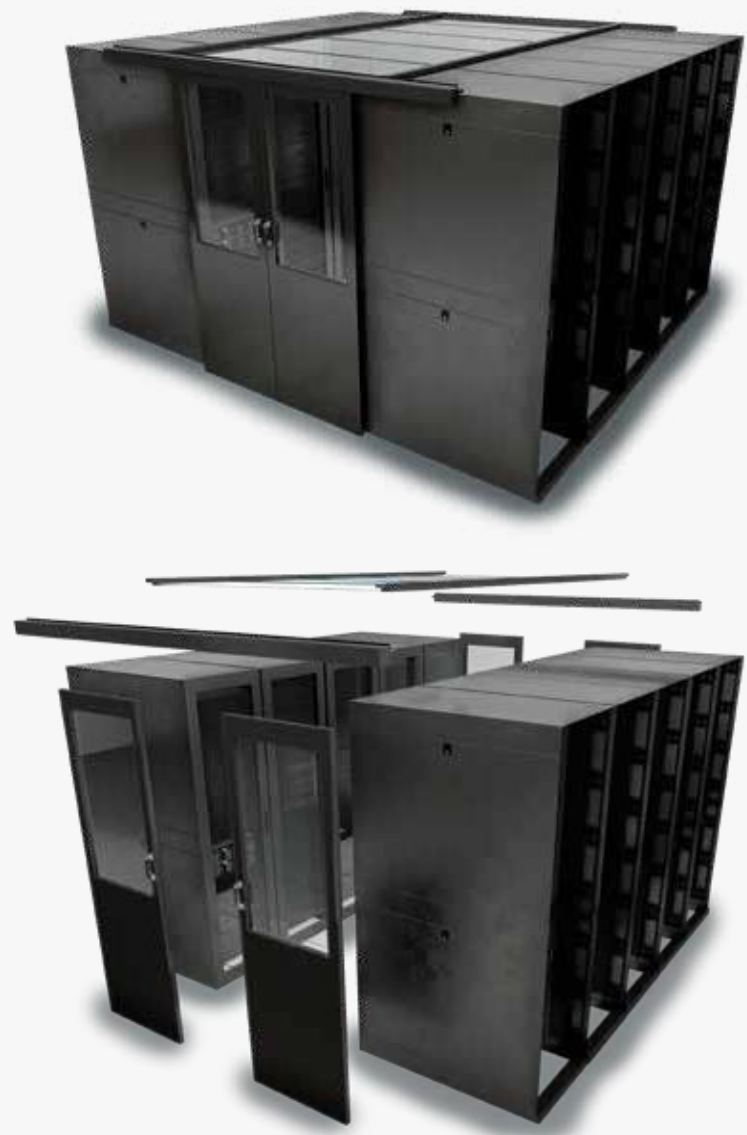
**5. GENERATORS**  
Dedicated exclusively to the operation of the data center, being activated automatically when there is a power outage from the concessionaire. They have internal and/or external independent fuel tanks.

**6. FUEL TANK**  
External fuel tank for extending the autonomy of the engine-generator group.

# EDGE COMPUTING

*Infrastructure solutions for medium and small data centers and Telecommunications environments.*

## CONFINEMENT



## RACK



Illustrative pictures

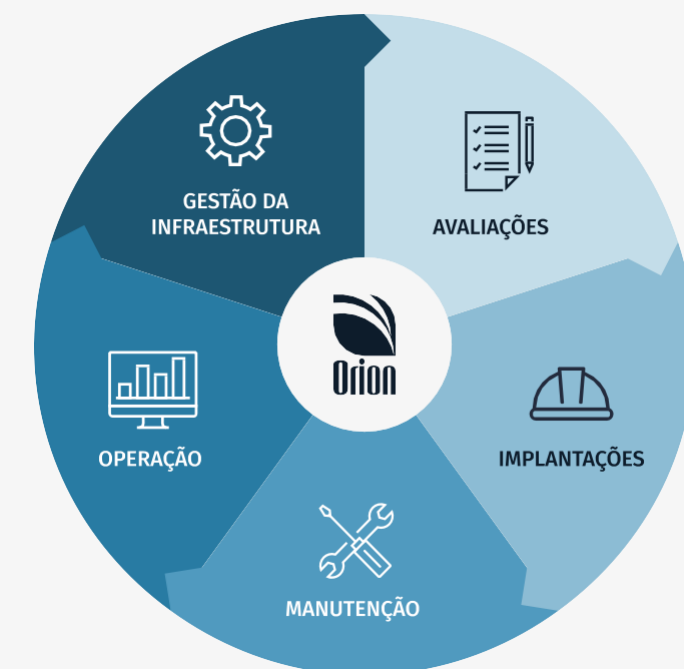


TV Tower

## SCOPE

We develop solutions for the entire life cycle of building infrastructure, harmonically balancing technical and economic requirements.

The unified management of all infrastructure chapters allows the elimination of gray areas between multiple contracts and suppliers, ensuring compliance with deadlines, targets, security, high availability, sustainability and reduction of the total cost of the infrastructure.





# 1. ASSESSMENTS



## Technical evaluation and feasibility studies for the infrastructure of the building



### DIAGNOSIS

Survey methodology and detailed analysis of building infrastructure, comprising:

- Project Briefing
- Technical survey
- Report preparation

This study allows you to visualize the building infrastructure in detail, indicating points of attention, needs for improvements and possible solutions to the problems detected.



### CFD

Computational Fluid Dynamics consists of a detailed computer-assisted technical assessment of the efficiency of the HVAC system. Its implementation involves operating software and installing a set of specific sensors, supported by a team of mechanical and technical engineers. In general, the use of this specialized service increases the efficiency of the existing system, reducing operating costs and reducing the need for new investments in air conditioning.



### ELECTRIC DEMAND

Technical and financial evaluation of the electrical demand contracted with the concessionaire, adjusting the delivery format to the real needs of the building. For the elaboration of this study, the current usage pattern and future projections are considered, as well as usage factors by the contracting party, such as schedules and powers demanded by the concessionaire. This study performs a detailed analysis of the power factor and indications of corrections. Lastly, scenario simulations and a financial feasibility study are carried out.



### COMISSIONING

Process that assures the owner of the enterprise that the contracted services and products adhere to the planning requirements. Commissioning can be implemented in the design, installation, maintenance, operation and infrastructure management phases. Carried out by an independent commissioned agent, its work schedule extends to the phases after acceptance of an implementation, training field teams and supervising the performance of the project.



### THERMOGRAPHY

Thermographic inspection of mechanical and electrical systems, indicating operational distortions and the useful life of building components. From the preparation of a technical report, solutions are indicated to the problems detected, extending the useful life of components and ensuring high operational availability.

# 2. DEPLOYMENTS



The timely and adjusted infrastructure to the needs of the building



 ELECTRICAL

- Substation
- Transformers
- Generator
- Transfer key
- Photovoltaic System
- Capacitor bank
- Battery bank
- Wires and cables
- Connectors
- Energy meters
- UPS
- Batteries
- Busway
- Panels
- PDU

 HVAC

- Quality analysis
- Cooling tower
- Thermal accumulators
- Condensers
- Duct cleaning
- Evaporators
- Piping
- Exhaustion
- Diffusers
- Fan coils
- Chillers
- Splits
- Pumps
- Ducts

 COMMUNICATION

- Racks
- Patch panel
- UTP cabling
- Optical cabling
- Connectors
- Equipments

 AUTOMATION

- Access Control
- Perimeter
- Fire System
- CCTV
- Supervisory
- DCIM
- BMS

 CIVIL

- Excavation
- Demolition
- Masonry
- Structure in concrete
- Metal structure
- Waterproofing
- Toppings
- Crockery
- Painting
- Raised floor
- Partitions
- Linings
- Frames
- Coatings
- Signage
- Reservoirs
- Pipes
- Sprinkles
- Sanitation
- Hydrants

# 3. MAINTENANCE



Ensuring the availability and efficiency of the infrastructure.

## ✖ CORRECTIVE MAINTENANCE

Corrective maintenance occurs when there are machine or equipment adjustments, replacing the damaged part with another one that makes the system work correctly again. We work exclusively with original parts recommended by the manufacturers.

## ✓ PREVENTIVE MAINTENANCE

It consists of the replacement of components based on the life expectancy passed on by the manufacturer. We work with programs guided by the producer, duly adjusted to the cost-availability ratio desired by the contracting party.

## 📊 PREDICTIVE MAINTENANCE

Periodic monitoring of equipment or machines, through collected data, refining the preventive maintenance schedule to the operating characteristics of each component, allowing expansion of preventive and corrective maintenance schedules, reducing operating costs.

## ⊕ EVOLUTIVE MAINTENANCE

Availability and updating of the most recent versions of the implemented solutions, including error corrections and functional evolutions.

## 👥 TEAM

Full, redundant teams with a hiring method defined by the availability-cost equation, allowing the best use of the team. Possibility of sharing the maintenance team with other projects.



Resident team



On-demand team



Mixed



Monitoring service orders from specific applications, making it possible to evaluate indicators such as MTTR and MTBF in real time.



Use of augmented reality application for maintenance, reducing checklist and report completion times by up to 30%.

Illustrative pictures

# 3. MAINTENANCE



## STEPS

### 1 DIAGNOSIS

- Understanding the desired availability
- Understanding the projected cost
- Existing certifications survey
- Basic infrastructure survey
- Civil infrastructure survey
- Air conditioning infrastructure survey
- Energy infrastructure survey
- Security infrastructure survey
- Automation infrastructure survey
- Connectivity infrastructure survey
- Maintenance history survey
- Operation history survey
- Survey of manufacturers' maintenance requirements

### 2 PLANNING

- Service scope suggestion
- Team modality suggestion
- Preventive periodicity suggestion
- Predictive periodicity suggestion
- Evolutionary periodicity suggestion
- SLA suggestion
- Schedule suggestion
- Certifications suggestion
- Cost projections

### 3 SETTINGS

- Scope of service
- Team modality
- Preventive periodicity
- Predictive periodicity
- Evolutionary periodicity
- SLA
- Schedule
- Cost projections

### 4 SERVICE

- Unscheduled requests
- Scheduled preventive service
- Scheduled predictive service
- Scheduled evolutionary service
- Scheduled corrective service
- Troubleshooting
- Replacement of damaged components
- Arrival SLA service, identification and resolution of problems as provided for in contractual clauses

### 5 MANAGEMENT

- Corrective and scheduled service reports
- Request report
- Efficiency report
- Availability report
- Cost report
- Monthly balance sheet
- Quarterly balance sheet
- Half-yearly balance sheet
- Annual balance sheet
- Trainings
- Recycling
- Projections
- Improvement suggestions
- Metrics reassessment

# 4. OPERATION

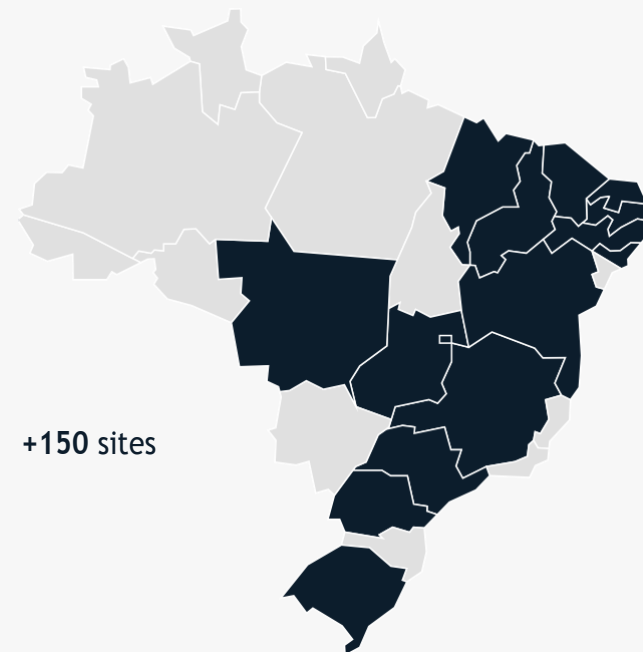


Ensuring efficiency, sustainability, comfort and safety in operation.



## SUMMARY

Continuous operation service of building infrastructure. We ensure that our customers comply with all operational contractual requirements related to efficiency, sustainability, comfort, safety and projected costs.



## TEAM

We have environments dedicated exclusively to the monitoring and operation of our customers' infrastructure. We have Network Operation Centers, NOCs, in the cities of Brasília and São Paulo. These environments have specific architecture, infrastructure independent of the buildings where they are located, capacity for operation 24 hours a day, 7 days a week, 365 days a year, advanced redundancy of the communication system with buildings monitored and operated.



Imagem ilustrativa NOC Brasília e São Paulo

# 5. MANAGEMENT

Improved infrastructure maintenance and operation, with cost reduction.



### SUMMARY

Intended for medium and large building infrastructures, the infrastructure management service aims to monitor all processes, disciplines, teams and contracts related to the perfect functioning and availability of the infrastructure, eliminating gray Areas between contractual limits, responsibilities and duties of suppliers. The service also allows the optimization of human and material resources, generating a reduction in overall costs. With our own redundant teams, in resident or on-demand models, with availability 24 hours a day, 7 days a week, 365 days a year, we assure our customers of all the contractual requirements for the maintenance and operation of the critical mission.

### SMART TAGS

Use of intelligent tags to monitor maintenance and operation contracts, containing detailed technical data and history of components and systems.



### ORION SERVICES CHECKLIST

Activity	Maintenance	Operation	Manage
Preventive maintenance	✓		
Corrective maintenance	✓		
Predictive maintenance	✓		
Evolutionary maintenance	✓		
Request management	✓	✓	
Scheduling activities		✓	
Activity tracking		✓	
SLA follow-up		✓	
Real-time monitoring		✓	
Third-party engagement		✓	
Efficiency Rating		✓	✓
Contract evaluation			✓
Supplier evaluation			✓
Cost evaluation			✓
Infrastructure assessment	✓	✓	✓
Alignment to the manufacturers program	✓	✓	✓
Improvement suggestions	✓	✓	✓
Infrastructure deployment	✓	✓	✓
Artificial intelligence EVE	✓	✓	✓
Orion Connect	✓	✓	✓

# 5. MANAGEMENT

Using the EVE Smart Building tool in managing the maintenance and operation of the infrastructure.



Location



Requests



History



Indicators



CCTV



Smart tags

Illustrative pictures



RECENT  
PROJECTS





United States Embassy



LOCATION



Distrito Federal

SES, Quadra 801, Asa Sul  
Brasília - DF | CEP 70297-400

GENERAL

AREA: 4.250m<sup>2</sup>

Period: Since 2007 - 2008

Chapters: Evaluations  
Deployments  
Maintenance  
Operation  
Management

SCOPE

- Civil: ✓
- Electric: ✓
- Lighting: ✓
- Hydrosanitary: ✓
- Fire System: ✓
- HVAC: ✓
- Exhaustion: ✓
- Automation: ✓
- Telecomm: ✓
- Electronic security: ✓
- Grounding: ✓
- PSAD: ✓
- Sustainability: ✓



Italian Embassy



LOCATION



Distrito Federal

SES, Quadra 807, Lote 30, Asa Sul  
Brasília - DF | CEP 70420-900

GENERAL

AREA: 9.000m<sup>2</sup>

Period: Since 2021

Chapters: Evaluations  
Deployments  
Maintenance  
Operation  
Management

SCOPE

- Civil: ✓
- Electric: ✓
- Lighting: ✓
- Hydrosanitary: ✓
- Fire System: ✓
- HVAC: ✓
- Exhaustion: ✓
- Automation: ✓
- Telecomm: ✓
- Electronic security: ✓
- Grounding: ✓
- PSAD: ✓
- Sustainability: ✓



LOCATION



Distrito Federal

SEN 802 Lote 39, Asa Norte  
Brasília-DF | CEP 70800-925

GENERAL

AREA: 3.000m<sup>2</sup>

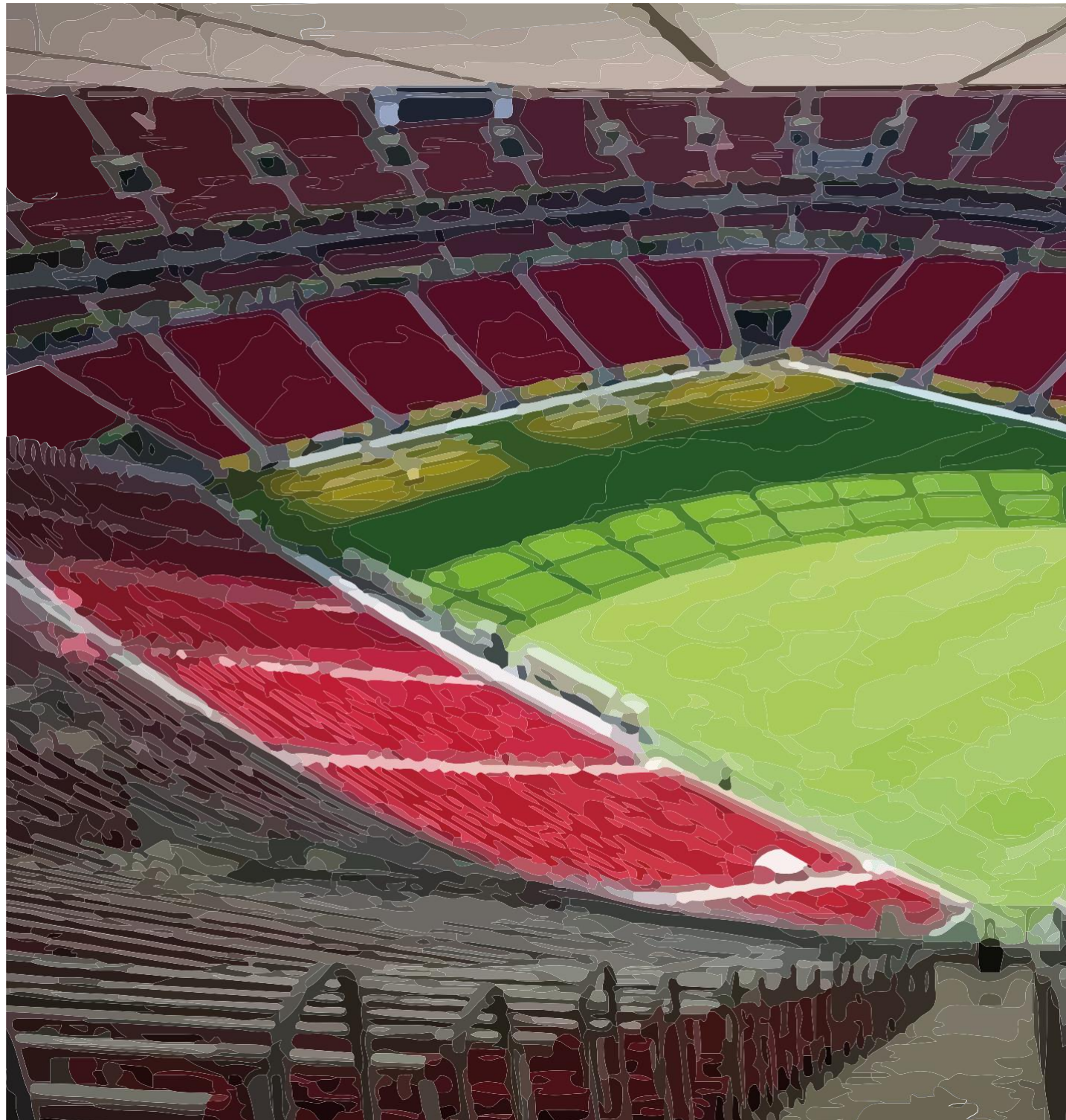
Period: Since 2019

Chapters: Evaluations  
Deployments  
Maintenance  
Operation  
Management

SCOPE

- Civil: ✓
- Electric: ✓
- Lighting: ✓
- Hydrosanitary: ✓
- Fire System: ✓
- HVAC: ✓
- Exhaustion: ✓
- Automation: ✓
- Telecomm: ✓
- Electronic security: ✓
- Grounding: ✓
- PSAD: ✓
- Sustainability: ✓

# Arena BSB



## LOCATION



Distrito Federal

SRPN, Estádio Nacional, Asa Norte  
Brasília-DF | CEP 70070-701

## GENERAL

Deadline 60 days

Professionals 44

Buildings 4

AREA +260.000m<sup>2</sup>

Damage reports +14.000

## SCOPE

- Civil: ✓
- Hydraulic: ✓
- Sanitary: ✓
- Electric: ✓
- HVAC: ✓
- Ventilation: ✓
- Heating: ✓
- Cabling: ✓
- Audio: ✓
- Video: ✓
- GLP: ✓
- Security: ✓
- Fire System: ✓
- Datacenter: ✓



LOCATION



Distrito Federal

SIG, Quadra 4 Lote 327  
Brasília-DF | CEP 70610-908

GENERAL

AREA: 23.000m<sup>2</sup>

Period: Since 2013

Chapters: Evaluations  
Deployments  
Maintenance  
Operation  
Management

SCOPE

- Civil: ✓
- Electric: ✓
- Lighting: ✓
- Hydrosanitary: ✓
- Fire System: ✓
- HVAC: ✓
- Exhaustion: ✓
- Automation: ✓
- Telecomm: ✓
- Electronic security: ✓
- Grounding: ✓
- PSAD: ✓
- Sustainability: ✓



📍 LOCATION



SEPN, Quadra 504, Asa Norte  
Brasília-DF | CEP 70730-524

⚙️ GENERAL

AREA: 17.000m<sup>2</sup>

Period: Since 2018

Chapters: Evaluations  
Deployments  
Maintenance  
Operation  
Management

📝 SCOPE

- Civil: ✓
- Electric: ✓
- Lighting: ✓
- Hydrosanitary: ✓
- Fire System: ✓
- HVAC: ✓
- Exhaustion: ✓
- Automation: ✓
- Telecomm: ✓
- Electronic security: ✓
- Grounding: ✓
- PSAD: ✓
- Sustainability: ✓



LOCATION



Distrito Federal

SEPN, Quadra 515, Bloco D, Asa Norte  
Brasília-DF | CEP 70770-504

GENERAL

AREA: 12.000m<sup>2</sup>

Period: 2013 to 2016

Chapters: Evaluations  
Deployments  
Maintenance  
Operation  
Management

SCOPE

- Civil: ✓
- Electric: ✓
- Lighting: ✓
- Hydrosanitary: ✓
- Fire System: ✓
- HVAC: ✓
- Exhaustion: ✓
- Automation: ✓
- Telecomm: ✓
- Electronic security: ✓
- Grounding: ✓
- PSAD: ✓
- Sustainability: ✓



LOCATION



Distrito Federal

SAF Sul, Quadra 2, Bloco F, Asa Sul  
Brasília-DF | CEP 70070-600

GENERAL

AREA: 24.000m<sup>2</sup>

Period: Since 2020

Chapters: Evaluations  
Deployments  
Maintenance  
Operation  
Management

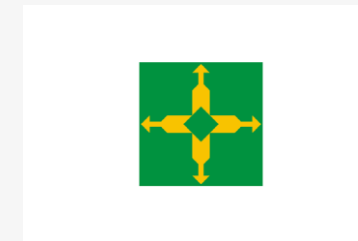
SCOPE

- Civil: ✓
- Electric: ✓
- Lighting: ✓
- Hydrosanitary: ✓
- Fire System: ✓
- HVAC: ✓
- Exhaustion: ✓
- Automation: ✓
- Telecomm: ✓
- Electronic security: ✓
- Grounding: ✓
- PSAD: ✓
- Sustainability: ✓





LOCATION



Distrito Federal

SAI/SO, Área 6580, Guarά  
Brasília-DF | CEP 71219-900

GENERAL

Area: 3.324m<sup>2</sup>

Period: Desde 2021

Chapters:  
Evaluations  
Deployments  
Maintenance  
Operation  
Management

SCOPE

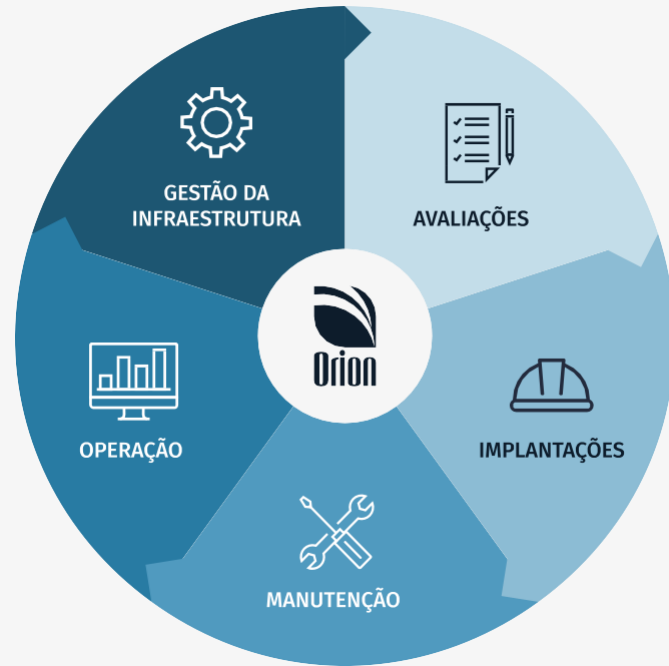
- Civil: ✓
- Electric: ✓
- Lighting: ✓
- Hydrosanitary: ✓
- Fire System: ✓
- HVAC: ✓
- Exhaustion: ✓
- Automation: ✓
- Telecomm: ✓
- Electronic security: ✓
- Grounding: ✓
- PSAD: ✓
- Sustainability: ✓



## DIFFERENTIALS

360° Vision

We offer a 360° view of all disciplines forming the building infrastructure, allowing detailed evaluations and decision-making supported by the availability and costs desired by our customers. We guide and accompany our clients in all disciplines of the infrastructure and throughout the useful life of their websites, suggesting and implementing improvements and specific certifications.



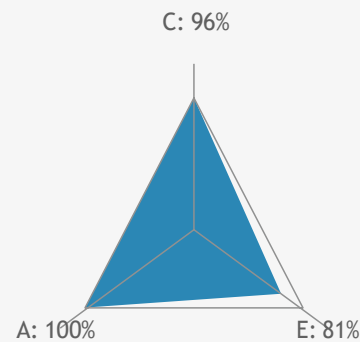
BENCHMARK

Use of specific benchmarking tools to compare infrastructure performance, such as ARC | GBC.



PARAMETER ASSESSMENTS

Custom methodology for evaluating in real-time the parameters of capacity, availability and efficiency established in the contract.



ADVANTAGES



5 YEAR

Average term of five-year contracts. Some even exceed 15 years in duration.



+ 1.500.000

More than 1.500.000 m<sup>2</sup> maintained and in operation



Specialized support made up of a multidisciplinary team of technicians and engineers specialized in Infrastructure Management



More than 25 years of experience in Infrastructure Management



Standardized processes based on best project management practices



Database available in real time with timely project information



Global analysis of the infrastructure based on data from similar buildings and the history of use and specific evolution of the installation



Commercial advantage in hiring other Orion solutions



Qualified and certified for Maintenance and Operation of certified safe rooms and datacenters



+ 100 datacenters maintained and in operation



Technical collection documents of building infrastructure duly registered within CREA



**SAFETY,  
COMFORT,  
AVAILABILITY  
AND EFFICIENCY.**



Cícero Barros  
Founder

Guilherme Barros  
President

SCS, Quadra 04, Bloco A,  
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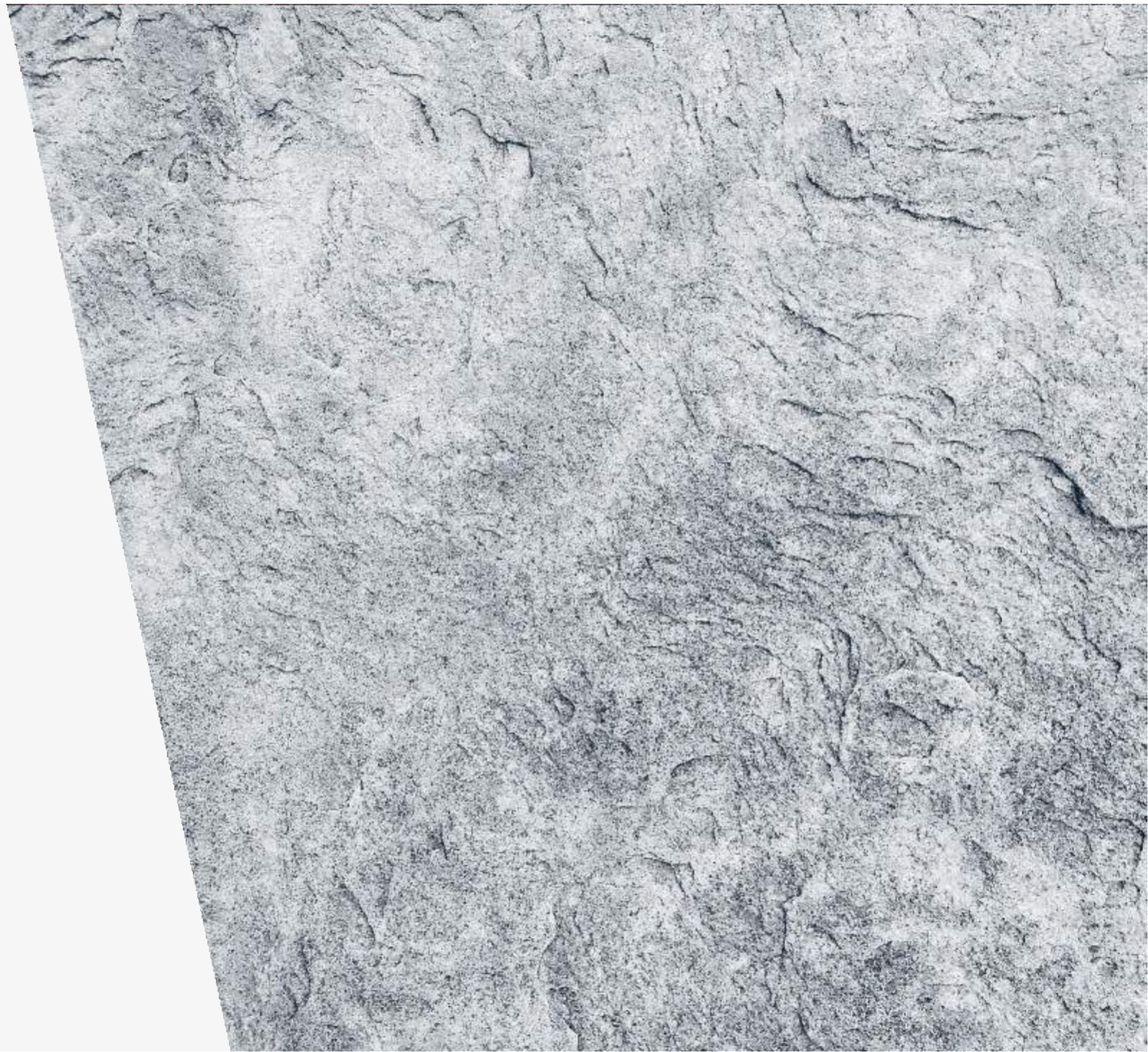
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[www.inteligenciapredial.com](http://www.inteligenciapredial.com)  
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C O R  
T E X