

Irani Papel e Embalagem S.A.

Investor Presentation



Porto Alegre, June 2022





We are the only Brazilian pure player in the packaging segment listed on B3's Novo Mercado



decades of experience environmental awards at regional and national levels

more than 2,200 employees

BRL 1.7 billion >

Net Revenue LTM 1Q22

Export

Domestic Market

BRL 12.4 mm 287

Average Daily Trading Volume (ADTV 20) average of the last 20 days, as of May 19th, 2022

thousand tons of paper for sustainable packaging produced LTM 1Q22

55%

33%

11%



Sustainable **Packaging** (Corrugated boxes)



Sustainable **Packaging** Paper (Paper)



Sustainable Resins (Gum Rosin and Turpentine)



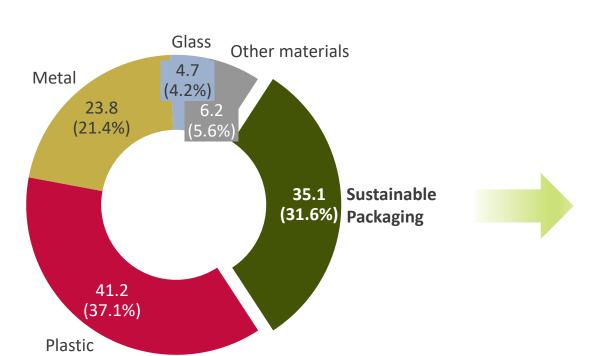
The packaging market in Brazil totaled BRL 110.6 billion in 2021 and BRL 26.6 billion in the segments where Irani operates



Brazilian packaging market - 2021

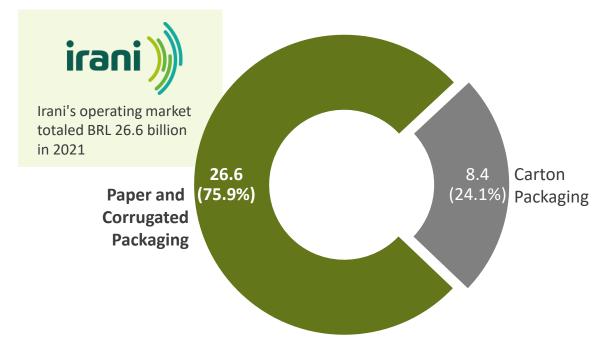
BRL billion

Total: BRL 110.9 billion



Brazilian sustainable packaging market - 2021

BRL billion

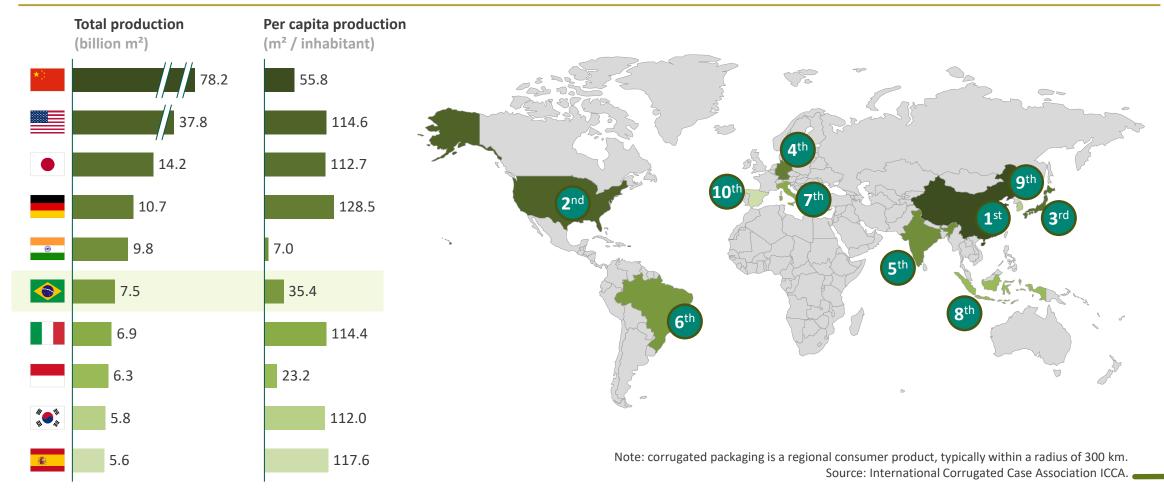








Infographic of the 10 largest countries that produce sustainable corrugated packaging – 2020



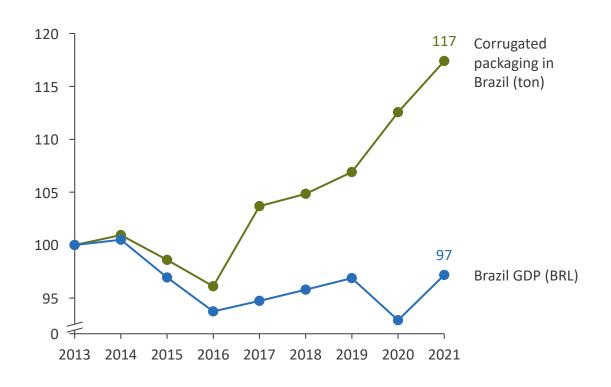


The sustainable packaging market is driven by secular trends of sustainability and e-commerce growth

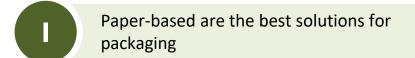


Comparison between sustainable packaging vs GDP

Evolution in base 100



Sustainable packaging market drivers





Demand for sustainability: substitution of plastic for paper



Growth of e-commerce and delivery



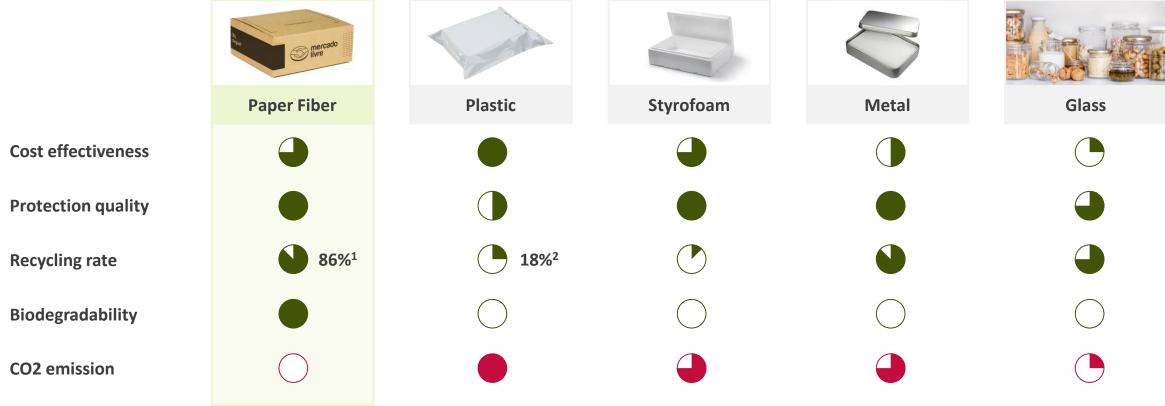




Fiber packaging is superior to alternatives



- ✓ Fiber packaging is renewable and easily recyclable, as well as it does not produce harmful gases during the recycling process.
- ✓ It is biodegradable and results in less environmental risk when discarded.
- ✓ It is economical, resistant and hygienic that protects the consumer's health.







Growing demand for sustainability and substitution of plastics



- ✓ Consumers want more than just quality, often looking for products and brands that align with their personal values.
- ✓ People strongly believe that companies should help improve the environment.



Example: Louis Vuitton has committed to replacing 100% of its single-use plastic consumption with sustainable packaging by 2030.



Example: Heinz announced in 2022 that it is developing paper fiber-based packaging for its products.





The rise of e-commerce and delivery are an important driver of sustainable packaging growth



7x

E-commerce consumes up to 7x more corrugated boxes per dollar of sales, compared to traditional retail.

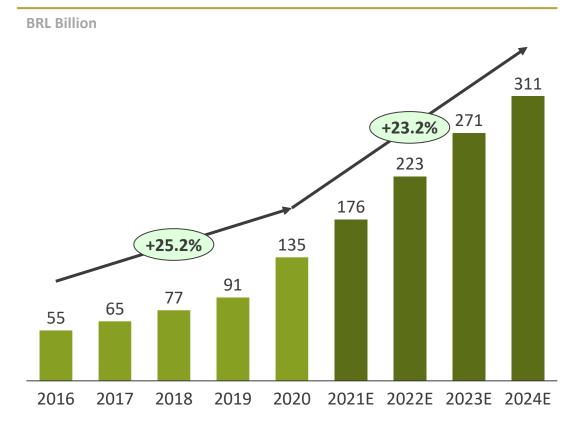
80%

Sustainable corrugated packaging packaging represents 80% of packaging used in e-commerce.

+23.2% p.y.

Brazilian e-commerce is forecast to grow at a CAGR of 23.2% in the period from 2020 to 2024.

E-commerce sales in Brazil





89% of Irani's revenue comes from the sustainable packaging market



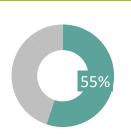


Breakdown of Net (Corrugated boxes)
Revenue LTM 1Q22

DOMESTIC MARKET

EXPORT

% of Net Revenue LTM 1Q22

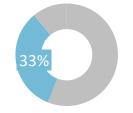


100%



Sustainable Packaging Paper (Paper)

84% 16%







<mark>5%</mark> 95%

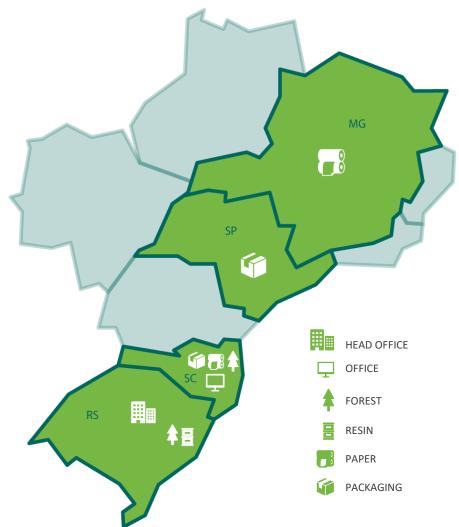








	Fo	rests	Land Area	Focus		
	SC Santa Cata	irina :	27,947 ha	Pulp, market timber and energy generated from biomass		
RS	Rio Grande do	Sul	5,850 ha	Resin and market timber		
		Total :	33,797 ha			
	Total Pi LTM as of 03	roduction /31/2022	Softwood Pulp	Sustainable Packaging Paper (Paper)	Sustainable Packaging (Corrugated Containerboard)	Sustainable Resin
	MG Sant	a Luzia	-	47k tons	-	-
	SP Inda	aiatuba	-	-	89k tons	-
*	SC Vargem	Bonita	91k tons	-	-	-
	SC Vargem	Bonita	-	240k tons	-	-
	SC Vargem	Bonita	-	-	63k tons	-
	RS Balneário	Pinhal	-	-	-	15k tons
		Total	91k tons	287k tons	151k tons	15k tons





Main competitive advantages



The only pure player in the packaging segment in the Brazilian stock market

The only brazilian publicly held company focused on sustainable packaging, in addition to being listed on B3's *Novo Mercado*

2 Circular economy business model

Complete insertion in a circular economy.

Own production of electricity and own forestry base

Guarantee of supply and stability in costs, resulting from our own production of electricity and our own forestry base.

Innovation at the heart of strategy

Pioneering in several innovation initiatives, reflecting in competitive differentials.

Excellence in the environmental, social and governance dimensions

Pursuit of excellence in all ESG spheres.





Irani is the only Brazilian publicly held company focused on the sustainable packaging market



The company does not sell pulp and is not subject to commodity pricing cycles.

The company has all its operations integrated with the production of sustainable packaging.

It is positioned in the value chain of the Brazilian market, meeting the growth of e-commerce, delivery services and retail activities, consumer goods and food.

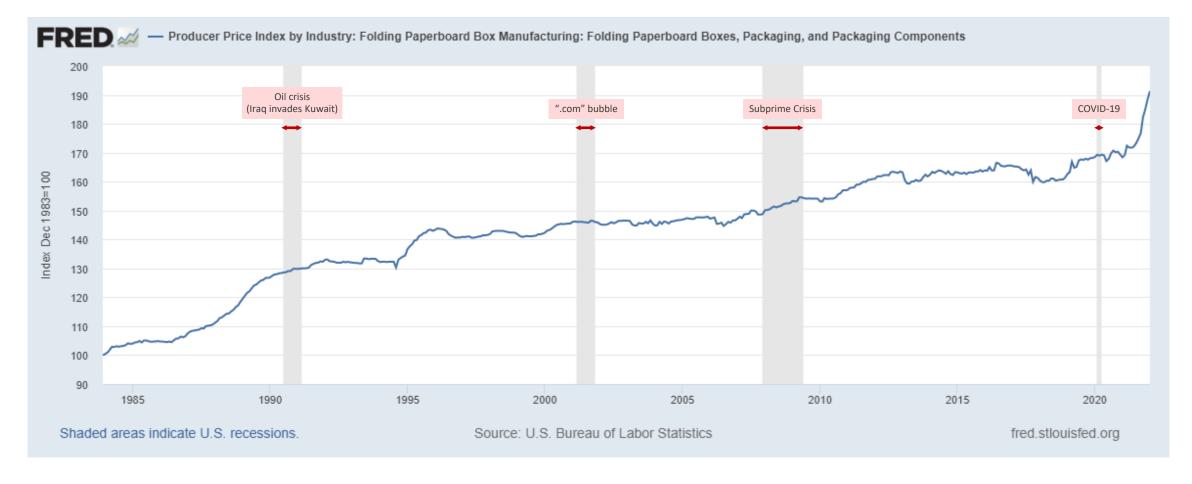
Markets that drive the company





The sustainable packaging pricing is not cyclical, and it is very resilient to turbulent economic times.





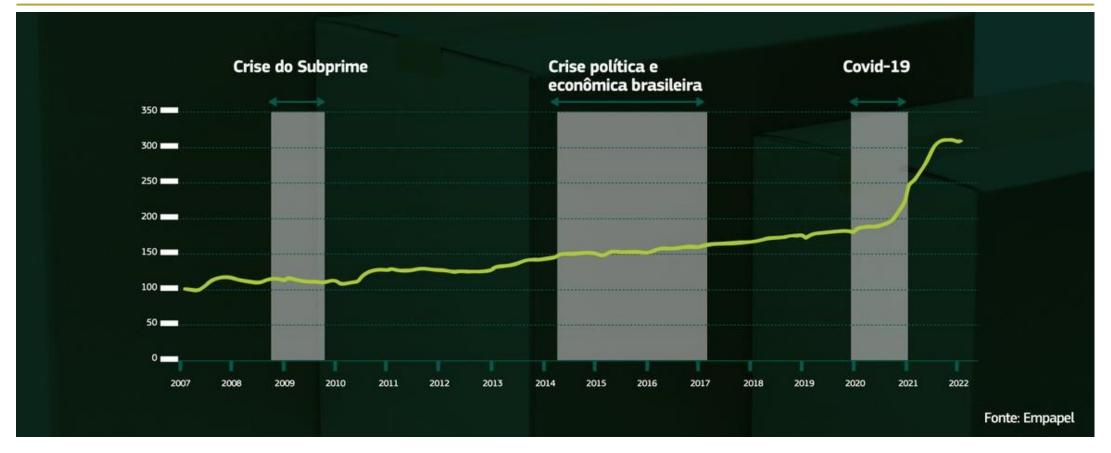




The sustainable packaging pricing is not cyclical, and it is very resilient to turbulent economic times.



Corrugated paper boxes average prices in Brazil (BRL/ton) – jan/2007 base 100





2

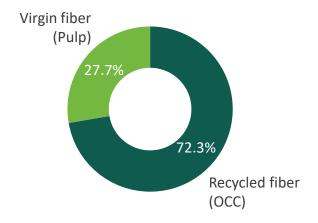
The company's business is fully immersed in the secular trend of circular economy



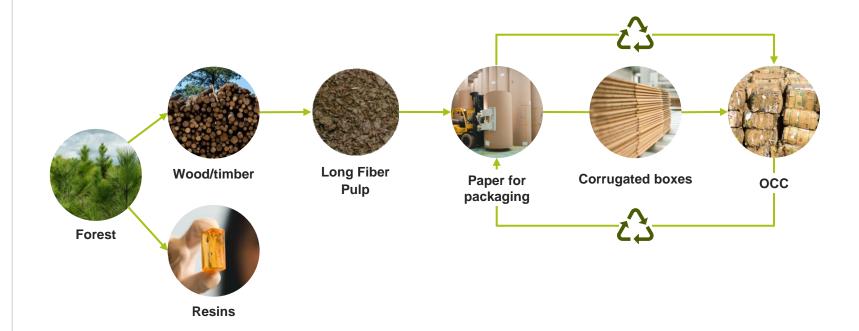
Raw material composition (2021)

% of volume consumed (Ton)

72.3% of the raw material is recycled fibers



Productive cycle of the company's operations





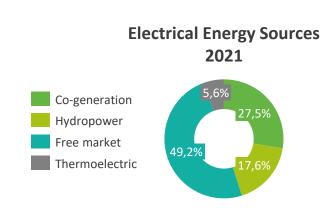


The company has its own production of renewable energy and its own land base



We will have 100% of our own production of renewable electricity after the Gaias.

In addition to not being exposed to the risks of energy supply in the country, we have become more cost efficient, with clean and renewable energy.

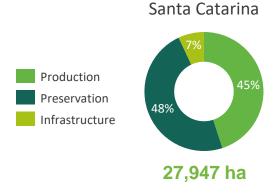


Own Land Base

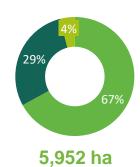
Electrical Energy Sources
After the Gaias

With Gaia, we will have 100% of our own generation of renewable energy

Our own forestry base gives us stability in the price of this raw material and guarantee of supply.



Own Land BaseRio Grande do Sul







Innovation is at the heart of Irani's strategy



In-house Innovation

INOVA IDEIAS PROGRAM

6,441

Ideas generated since the beginning of the program

BRL 8.87 million

of operating return potential

TECHNOLOGICAL PLATFORMS

Main RD&I themes

Projects in progress

Connection with startups



Enrolled Startups

POCs held in two editions of the Program

Other POCs Platform and Predictive sensing of equipment

Focus themes of the first edition:

Forest technologies; **Waste Management**; OCC collection and management; **New Business Models.**

Focus themes of the second edition: New materials and barriers: Packaging design; **Customer Experience;** Industry 4.0.

Disruptive investments



BRL 10 million

approved for investments in disruptive startups with high growth potential





Irani is an ESG excellence Company by nature



Environmental

Negotiation	Volume (CERs)	Generated Revenue (BRL)	Negotiation month	
Costumer 1	17,951	BRL 276 ths	Mar and Oct/21	
Costumer 2	71,134	BRL 295 ths	Mar/21	
Costumer 3	66,860	BRL 1,133 ths	Dec/21	

BRL 1,704 ths



155,945

Social



We are

Great Place To Work

For the third time in a row!



Top Ser Humano

Last 5 consecutive years, from 2016 to 2021 by ABRH/RS



More than

R\$ 1.5 million

invested in education and training annually

Governance





IGCX B3 IGC-NM B3 ITAG B3 IBrA B3 IMAT B3 SMLL B3 IGCT B3 IGPTWB3 IAGROB3

Distribution of Dividends Policy: Up to 50% of the adjusted net profit.

Board of Directors: Five members, of which 2 are independent.

Executive Board: There are no overlapping responsibilities between the Executive Board and the Board of Directors.

Financial Policy: indebtedness, average debt term, cash balance and credit rating policies.

Board Committees

- Audit Committee
- People Committee
- Strategy Committee

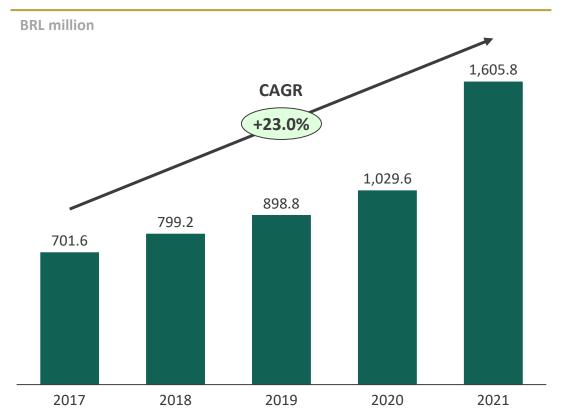
Financial statements audited by KPMG



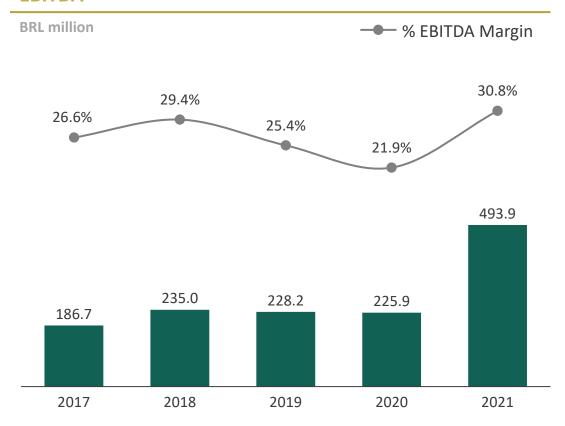
Our competitive advantages support an accelerated pace of growth



Net Revenue



EBITDA





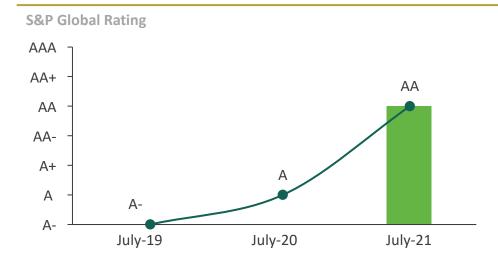
Generating value for shareholders



ROIC > WACC

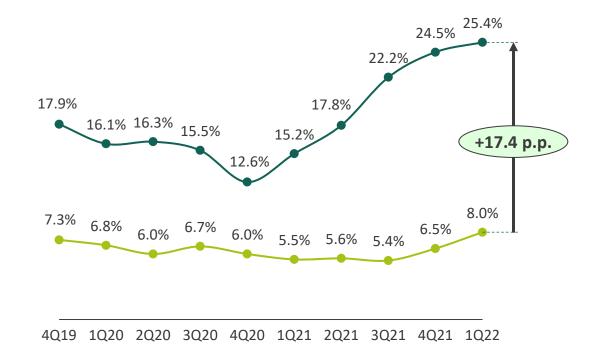
- Improved operating margins and return from the Gaia Platform will increase ROIC
- Leverage with lower costs will reduce Kd
- Re-leveraging will also reduce WACC by higher thirdparty equity mix

National scale credit rating



ROIC and Kd after taxes









Very strong returns to our shareholders since our Re-IPO, even during turbulent times for the Brazilian stock market

Total Shareholder Return (stock price + dividends) since the Re-IPO





The Gaia Platform will lead to a significant improvement in the production mix, in addition to several operational efficiency gains



BRL 976 Million of investments

- Own production of renewable electricity
- Reduction of maintenance costs
- Reduction of chemical consumption
- Greater stability and performance of factories
- Downtime reduction
- Gains in forest management
- Increased printer productivity
- Scrap reduction

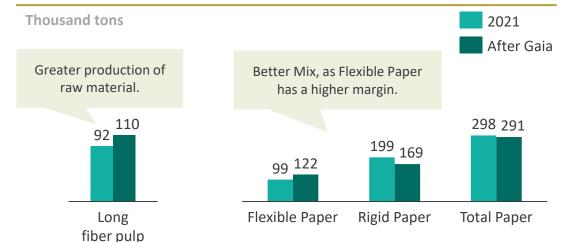
26.0%

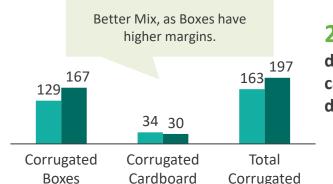
of all energy consumed will be generated via a recovery boiler

(use of the production process, that is, very low-cost energy)



Annual production





20,0%

de aumento de

capacidade de produção

de Papelão Ondulado



Irani has aggressive ESG targets for 2030, in line with its strategy



1 OCCUPATIONAL SAFETY	Zero work accidents with leave	3 SAUDE E ENM-ESTAR
2 DIVERSITY	Having 40% of women in the company Having 50% of women in leadership positions	5 DE GÉNERO
3 WATER	Reduce water consumption by 30% per ton produced	6 AGUA POTÁVEL E SANEAMENTO
ENERGY	Being self-sufficient in renewable energy generation	7 ENERGIA LIMPA E ACESSIVEL
5 WASTE	Stop waste shipment to landfill	12 CONCIANO E PRODUÇÃO RESPONSÁVEIS
6 CLIMATE CHANGES	Increase the positive balance between emissions and removals of Greenhouse Gases (GHG) by 20%	13 ACAD CONTRA A MUDANÇA KIDEAL DO CUMA





Links to more information



Websites:



Investors Relations Website



Gaia Platform

Other documents:



Integrated Report



Financial Statements



Reference Form



Historical operating data

Presentations:



Institutional Presentation



Results Presentation



Earnings Release



RANI3
B3 LISTED NM