

## Irani Papel e Embalagem S.A.

**Investor Presentation** 



Porto Alegre, october 2024





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



More than decades
Of experience

environmental awards at regional and national levels

More than 2,400 employees

BRL 1.6 billion More than

Net Revenue LTM 3Q24

More than thousand shareholders

BRL 11 mm

**Daily Trading Volume** (average since Re-IPO) base date 09/30/2024

315

thousand tons of paper for sustainable packaging Produced LTM 3Q24







Sustainable Resins (Gum Rosin and Turpentine) <sub>2</sub>

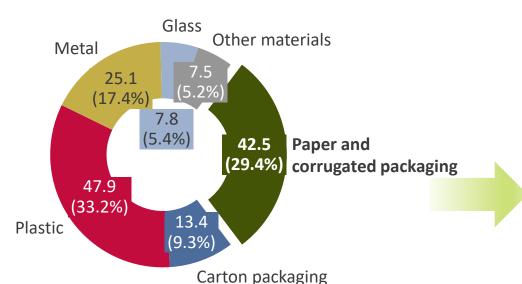


# The packaging market in Brazil totaled BRL 144.4 billion in 2023 and BRL 42.5 billion in the segments where Irani operates



#### **Brazilian packaging market - 2023**





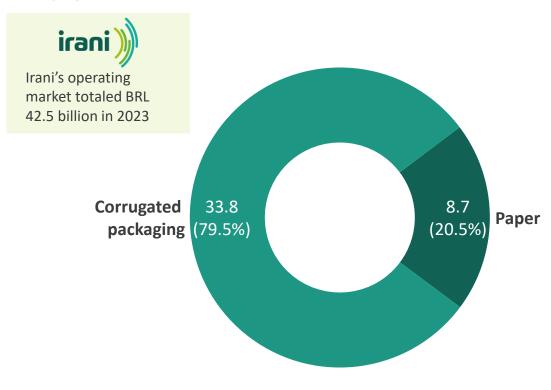
11 The ABRE study confirms the perception that consumer industries are replacing plastic with more sustainable materials. From 2020 to now, the share of plastics in the gross value of industry production fell from 39.6% to 33.2%.

At the same time, corrugated packaging's share rose from 18.7% to 23.4% and paper from 4.2% to 6.0%."

Valor Econômico, 03/27/2024.

#### Irani's operating market - 2023

#### **BRL** billion

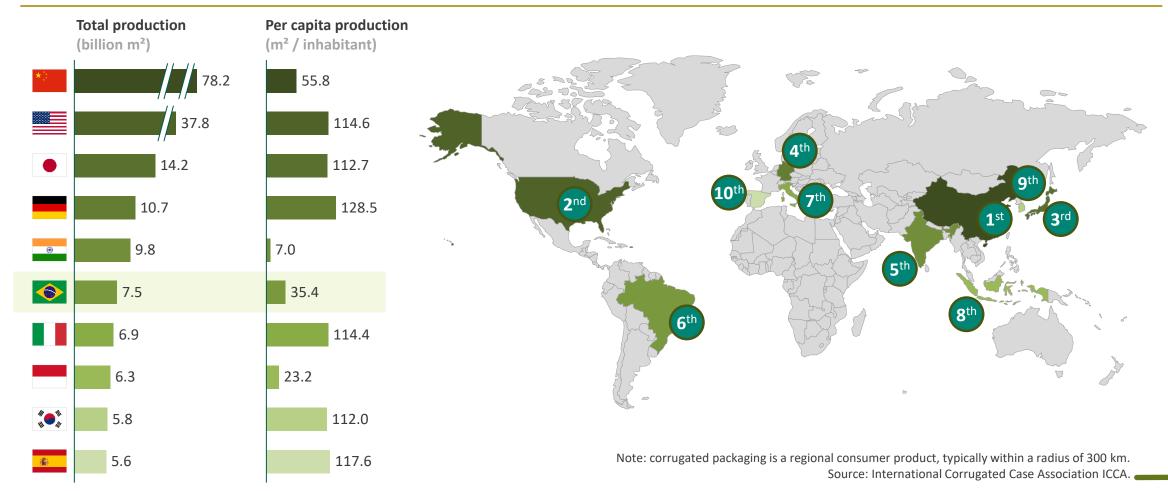






## Brazil is the 6<sup>th</sup> largest producer of corrugated packaging in the world and still has great potential to increase per capita production

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



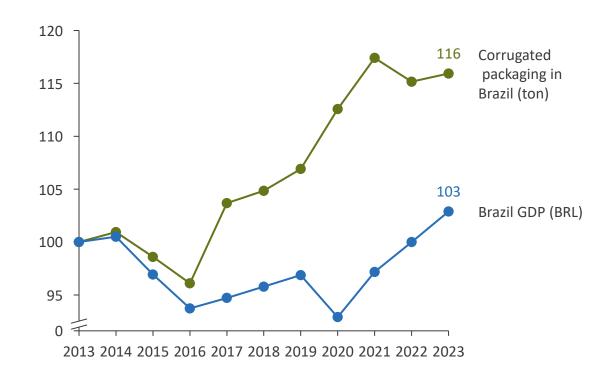


## The sustainable packaging market is driven by secular trends of sustainability and e-commerce growth

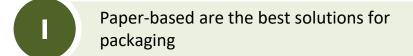


#### Comparison between sustainable packaging vs GDP

**Evolution in base 100** 



#### Sustainable packaging market drivers





Demand for sustainability: substitution of plastic for paper



Growth of e-commerce and delivery



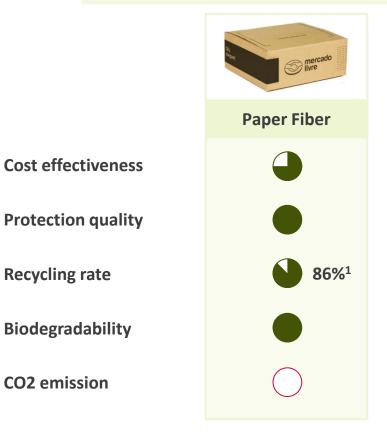




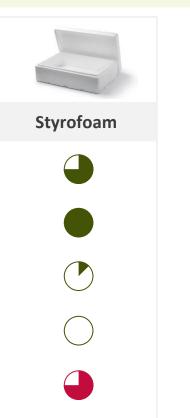
### Fiber packaging is superior to alternatives

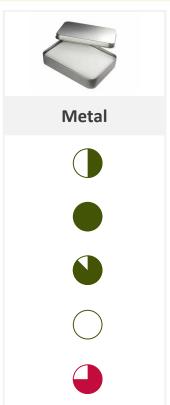


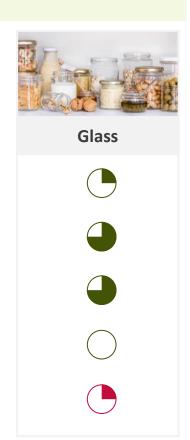
- Fiber packaging is renewable and easily recyclable, as well as it does not produce harmful gases during the recycling process.
- It is biodegradable and results in less environmental risk when discarded.
- ✓ It is economical, resistant and hygienic that protects the consumer's health.















### 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: Heinz announced that it is developing paper-based packaging for its products, including the ketchup bottle.



Example: Amazon has replaced 95% of plastic air bags in North American delivery packaging with paper padding.



Example: Less plastic and decarbonization are sustainable commitments of Natura&Co.



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





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



80%

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

+15.0% p.y.

Brazilian e-commerce is forecast to grow at a CAGR of 15% in the period from 2022 to 2026.

#### **E-commerce sales in Brazil**

**BRL Billion** 

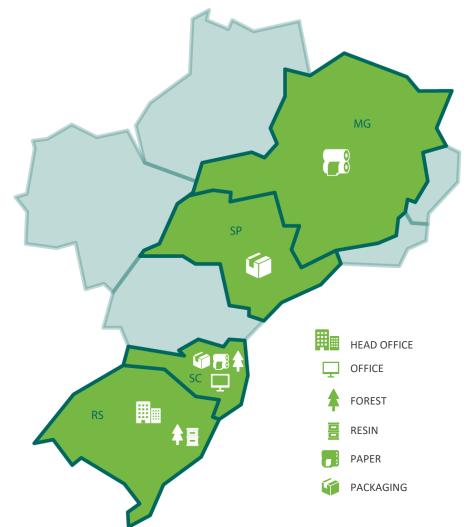








	<b>*</b>	Forests	Land Area	Focus		
SC   Santa Catarina			27,894 ha	Pulp, market timber and energy generated from biomass		
RS   Rio Grande do Sul			5,928 ha	Resin and market timber		
		Total	33,822 ha			
	To	tal Production LTM 3Q24		Sustainable Packaging Paper (Paper)	Sustainable Packaging (Corrugated Containerboard)	Sustainable Resin
	MG   :	Santa Luzia	-	62k tons	-	-
	SP	Indaiatuba	-	-	80k tons	-
*	SC   Varg	gem Bonita	97k tons	-	-	-
	SC   Varg	gem Bonita	-	253k tons	-	-
	SC   Varg	gem Bonita	-	-	94k tons	-
昌	RS   Balne	ário Pinhal	-	-	-	11.2k tons
		Total	97k tons	315k tons	174k tons	11.2k 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.



1a

# 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

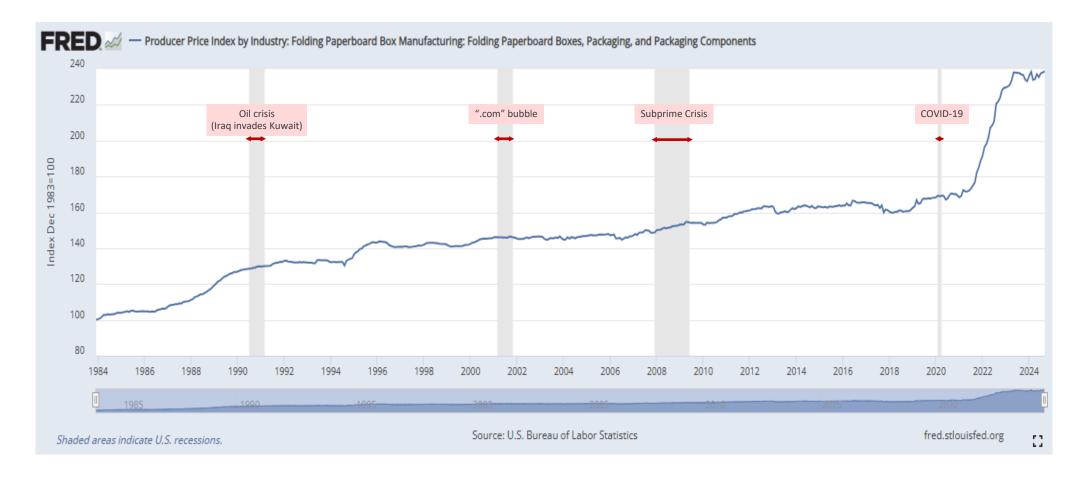






## The sustainable packaging pricing is not cyclical, and it is very resilient to turbulent economic times





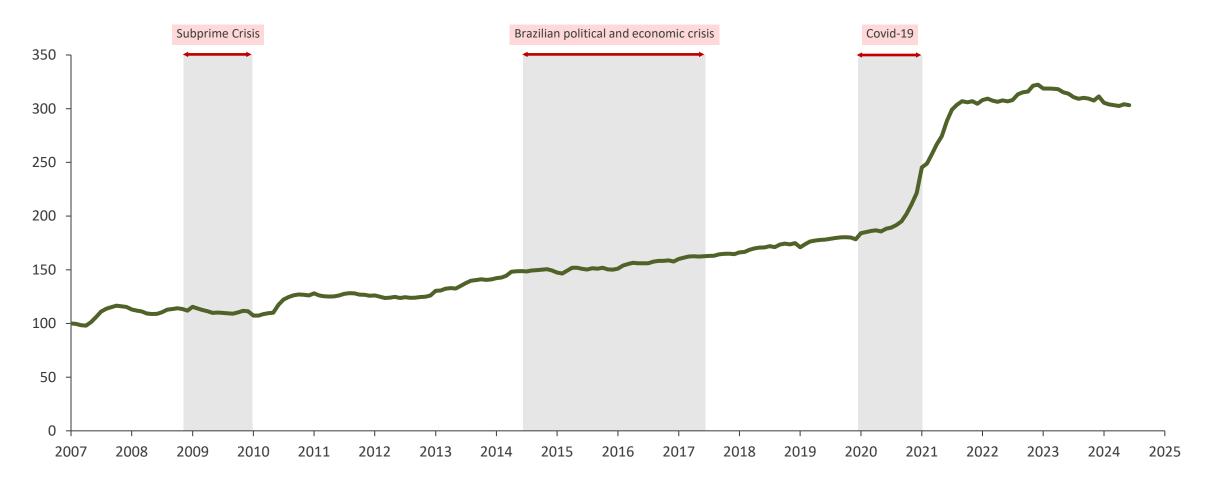




## The sustainable packaging pricing is not cyclical, and it is very resilient to turbulent economic times



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







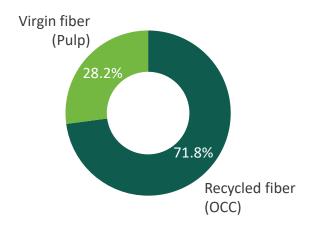
# The company's business is fully immersed in the secular trend of circular economy



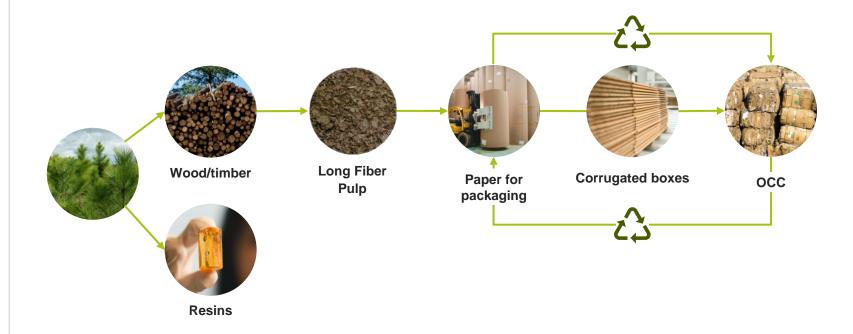
#### Raw material composition (LTM 3Q24)

% of volume consumed (tons)

**71.8%** of the raw material is recycled fibers



#### **Productive cycle of the company's operations**





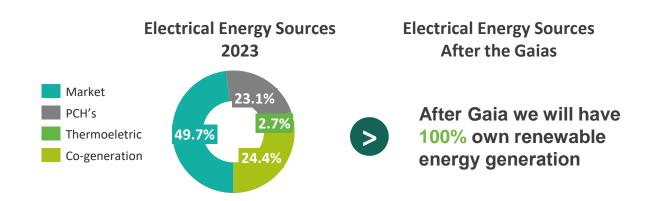


## The company has its own production of renewable energy and its own land base

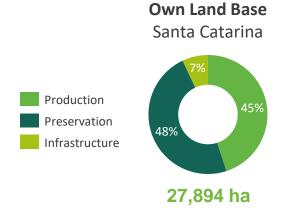


We will have 100% of our own production of renewable electricity after the Gaias.

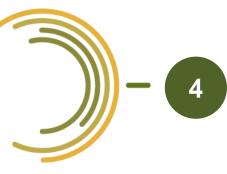
In addition to not being exposed to the risks of energy supply in the country, we have become more cost efficient, with clean and renewable energy.



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







### Innovation is at the heart of Irani's strategy



#### **In-house Innovation**

### INOVA IDEIAS PROGRAM

+7,014 Ideas generated since the beginning of the program

### + BRL 15 million

of operating return potential

## TECHNOLOGICAL PLATFORMS

18 Main RD&I themes

Projects in progress

Technological platforms:
Cellulose and paper;
Corrugated Cardboard;
Forest and Resin;
Environmental and Energy;

#### **Connection with startups**



**04** Editions

+400 Connected startups

07 b

Selected businesses

#### Winning themes:

Waste Management; Sustainable packaging; Climate changes; Diversity; Surrounding community;

#### **Disruptive investments**



### **BRL 10** million

approved for investments in disruptive startups with high growth potential

04 Round

Rounds held

160 Registered Startups

Startups in acceleration

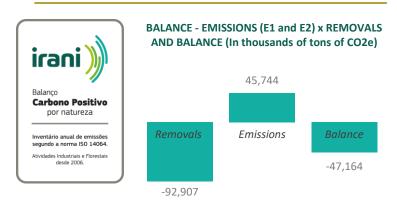




### Irani is an ESG excellence Company by nature



#### **Environmental**



1,509,261 CERs approved by the UN (2005-2022) Carbon credits traded up to 2024 generated revenue of BRL 24 million.



#### Social



We are

#### **Great Place To Work**

For the second time in the Brazil ranking!



### SerHumano Top Human Being

Recognized for the seventh time!



More than

BRL 1.9 million invested in education and

training annually

#### Governance



**IGCX** B3 IGC-NM B3 ITAG B3 **IBrA** B3 **IMAT B3 IDIV**B3

SMLL B3 **IGCT** B3 **IGPTW**B3 **IAGRO**B3 ISEB3

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

Board of Directors: Six members, of which 3 are independent.

Fiscal Board: Three members.

**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
- Ethics Committee

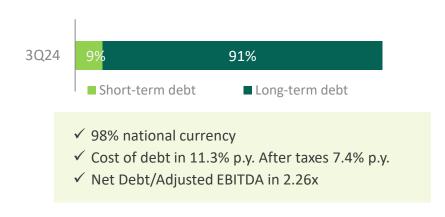
Financial statements audited by pWc.



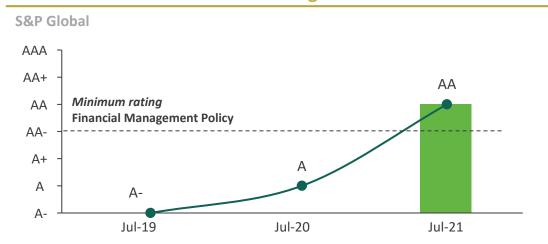


## Our competitive advantages, combined with an optimized capital structure, support a return (ROIC) above the cost of capital

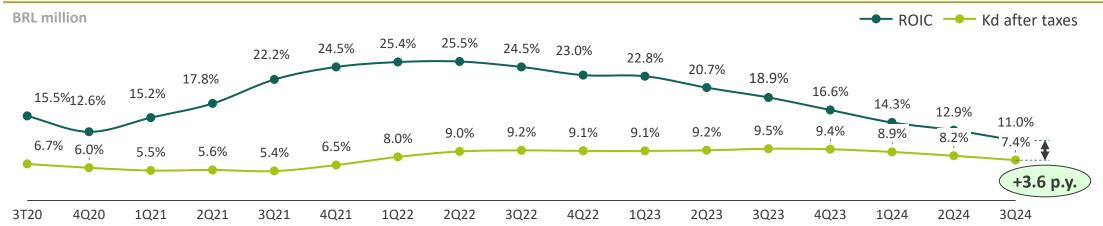
#### **Debt Structure**



#### **National Scale Issuer Credit Rating**



#### **ROIC** and Kd after taxes









#### **Buyback programs since 2021**



#### 1st program (announced in sep-2021)

- > 7.98 million shares repurchased
- > BRL 6.68 average share price
- > BRL 53.36 millions
- > Full cancellation of treasury shares



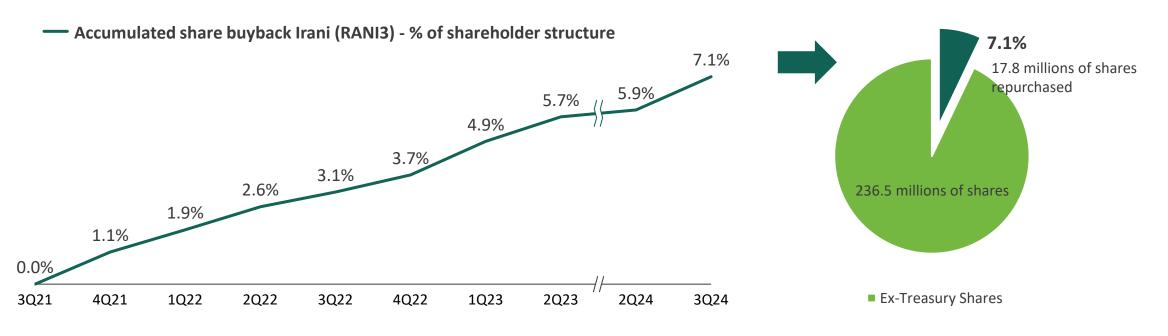
#### 2nd program (announced in aug-2022)

- ➤ 6.53 million shares repurchased
- > BRL 8.21 average share price
- ➤ BRL 53.59 millions
- > Full cancellation of treasury shares



#### 3rd program (announced in mar-2024)

- > 3.9 million shares repurchased
- > BRL 8.09 average share price
- ➤ BRL 31.54 millions
- ➤ Until Sep-2024









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





## The Gaia Platform has been providing significant improvements in the production mix, in addition to several operational efficiency gains



#### **BRL 1.2 billion** of investments

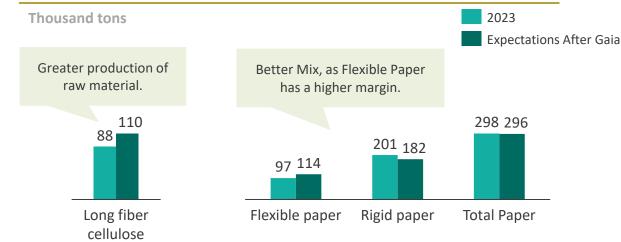
- Own production of renewable electricity
- Reduction of maintenance costs
- Reduction of chemical consumption
- Greater stability and performance of factories
- Downtime reduction
- Gains in forest management
- Increased printer productivity
- Scrap reduction

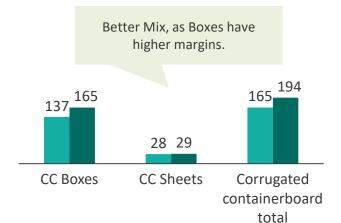
#### **Energy self-sufficiency**

(in the total balance of energy production versus consumption)









20.0% capacity increase on the corrugated containerboard production







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 OF SEASO
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 ADESSIVEL
5 WASTE	Stop waste shipment to landfill	12 CONCIANO E PRODUÇÃO RESPONSÁVEIS
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** 



This presentation may contain certain affirmations and statements expressing beliefs and trends related to Irani Papel e Embalagem S.A. ("Irani" or "Company") and its subsidiaries, which reflect the current views and/or expectations of Irani and its management regarding its businesses and future events that, although considered reasonable by the Company based on public information, may be incorrect or inaccurate or may not occur.

This is because a number of important factors may cause actual results to be materially different from the plans, objectives and expectations expressed herein, many of which are beyond the Company's control.

The statements and information on the trends reported herein are not performance guarantees. This presentation does not constitute the offer of materials for the subscription or purchase of Company's securities.



RANI3
B3 LISTED NM