

Irani Papel e Embalagem S.A.

Investor Presentation



Porto Alegre, july 2024



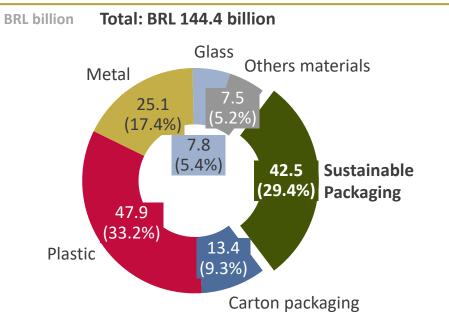




The packaging market in Brazil totaled BRL 144.4 billion in 2023 and BRL 42.5 billion in the segments where Irani operates



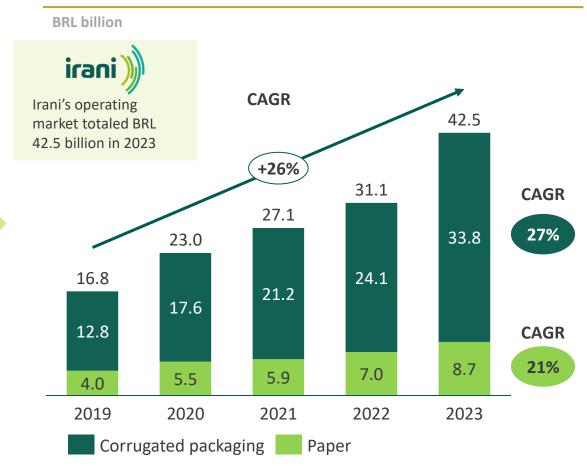
Brazilian packaging market - 2023



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.



Evolution of Irani's market - 2019 to 2023

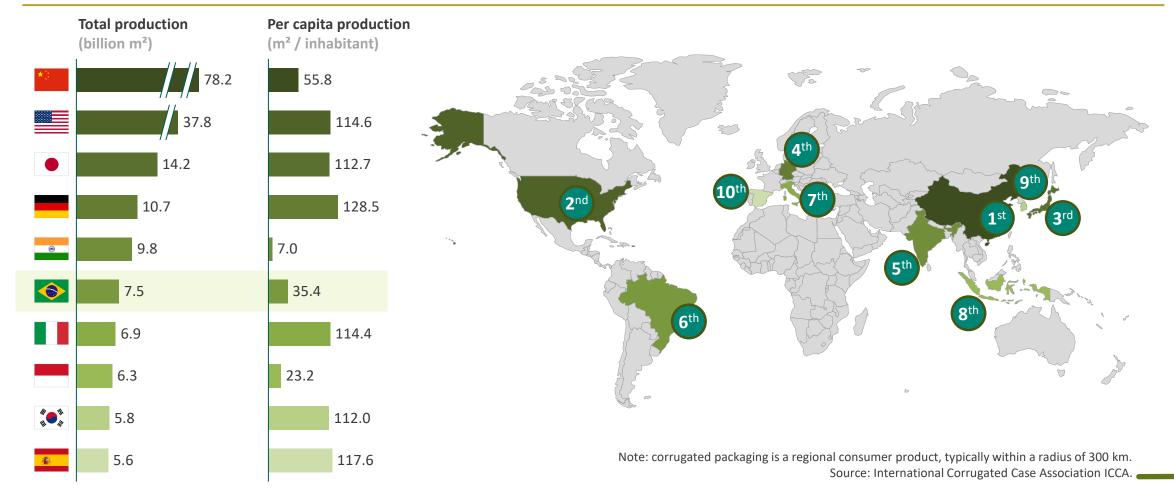
Source: ABRE (Associação Brasileira de Embalagens - Brazilian Packaging Association).



Brazil is the 6th 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 Sustainable packaging market drivers **Evolution in base 100** 120 Paper-based are the best solutions for 116 Corrugated packaging packaging in 115 Brazil (ton) 110 Demand for sustainability: substitution of plastic for paper 105 103 Brazil GDP (BRL) 100 Growth of e-commerce and delivery 95 0 2013 2014 2015 2016 2017 2018 2019 2020 2021 2022 2023

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.



(1) Associação Brasileira de Embalagens de Papel – Brazilian Paper Packaging Association (Empapel). (2) OCDE Environment Policy Paper no. 12.

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.

https://www.cbsnews.com/news/heinz-ketchup-bottle-wood-pulp-eco-friendly/ https://portalpackaging.com.br/amazon-acelera-substituicao-de-plastico-por-papel-em-embalagens-de-entrega-nos-estados-unidos/ https://exame.com/esg/menos-plastico-descarbonizacao-e-compromissos-sustentaveis-da-natura-co/ https://eu.louisvuitton.com/eng-e1/magazine/articles/sourcing-responsibly-2020#



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

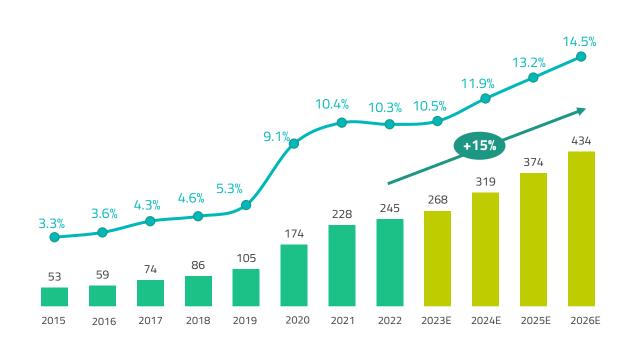




Sustainable corrugated packaging packaging represents 80% of packaging used in e-commerce.

+15.0% p.y.

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



GMV brazilian e-commerce — % of retail sales

E-commerce sales in Brazil

BRL Billion



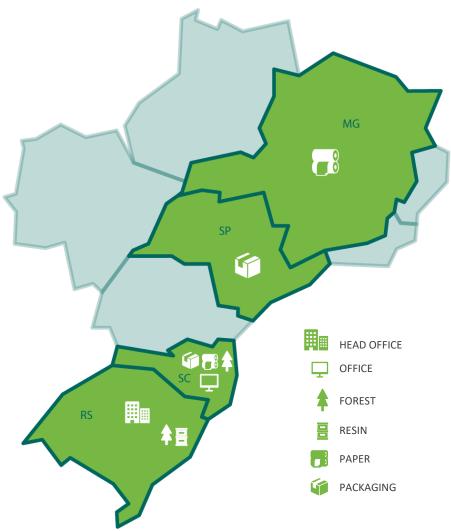
Mills and facilities are strategically located in the main regions of Brazil, in terms of GDP and forest base



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	

	Total Production LTM 2Q24	Softwood Pulp	Sustainable Packaging Paper (Paper)	Sustainable Packaging (Corrugated Containerboard)	Sustainable Resin
	MG Santa Luzia	-	61k tons	-	-
ý	SP Indaiatuba	-	-	79k tons	-
*	SC Vargem Bonita	97k tons	-	-	-
	SC Vargem Bonita	-	249k tons	-	-
ý	SC Vargem Bonita	-	-	93k tons	-
₿	RS Balneário Pinhal	-	-	-	10.8k tons
		071	24.01.4	4701.4	10.01.1

Total 97k tons 310k tons 172k tons 10.8k tons





Main competitive advantages



1	

The only pure player in the packaging The only brazilian publicly held company focused on sustainable packaging, segment in the Brazilian stock market in addition to being listed on B3's Novo Mercado

differentials.

2	Circular economy business model	

Complete insertion in a circular economy.

of electricity and our own forestry base.

3	Own production of electricity and own
ວ	forestry base

Innovation at the heart of strategy

Pioneering in several innovation initiatives, reflecting in competitive

Guarantee of supply and stability in costs, resulting from our own production

5

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.

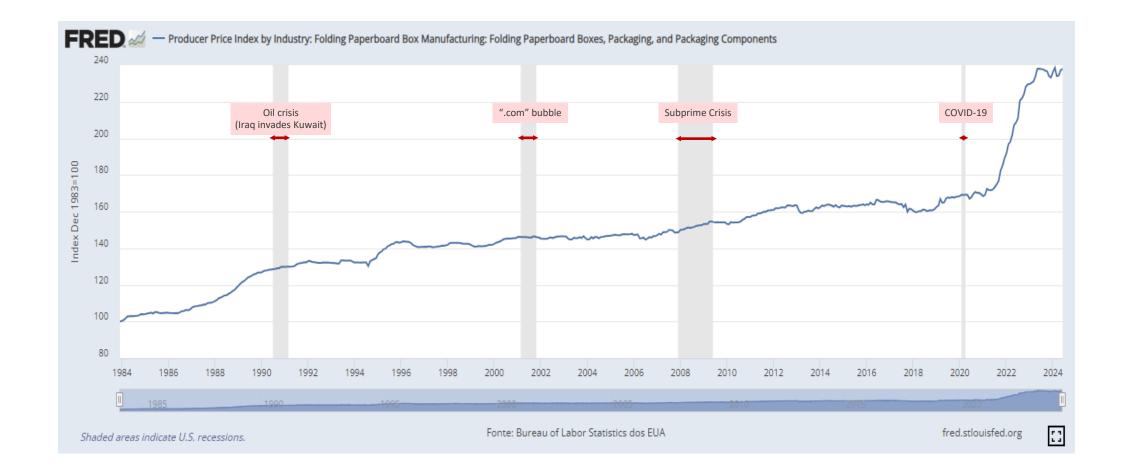
It is positioned in the value chain of the Brazilian market, meeting the growth of e-commerce, delivery services and retail activities, consumer goods and food.

Markets that drive the company





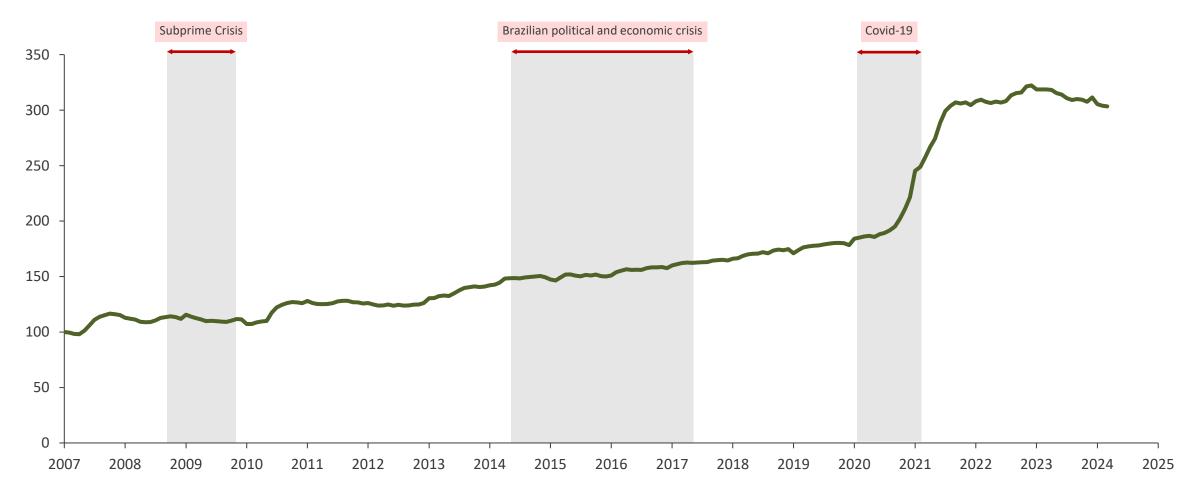
1b The sustainable packaging pricing is not cyclical, and it is very resilient to turbulent economic times







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



Note: In Brazil, average prices only started to be measured and published from Jan/2007, by the sector association (Empapel)



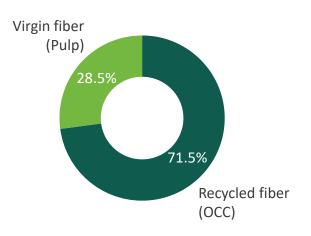
The company's business is fully immersed in the secular trend of circular economy

Raw material composition (LTM 2Q24)

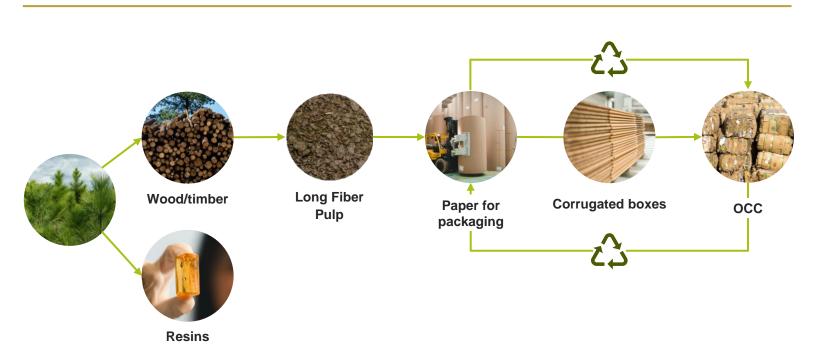
2

% of volume consumed (tons)

71.5% of the raw material is recycled fibers



Productive cycle of the company's operations





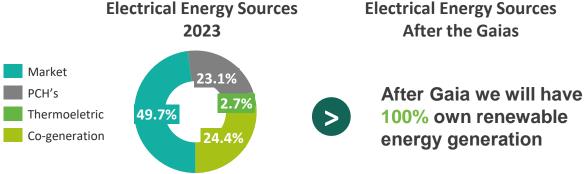


Own Land Base

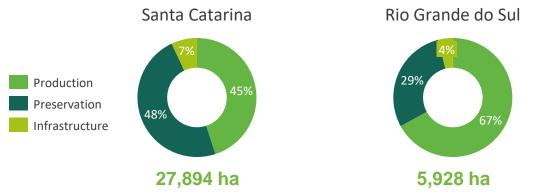
RAN13



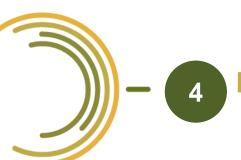
In addition to not being exposed to the risks of energy supply in the country, we have become more cost efficient, with clean and renewable energy.







Own Land Base



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

TECHNOLOGICA L PLATFORMS

Main RD&I themes

Projects in progress

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

Connection with startups



O4 Editions

Connected

startups

Winning themes: Waste Management; Sustainable packaging; Climate changes; **Diversity;** Surrounding community;

+400

Selected businesses

Disruptive investments



BRL 10 million

approved for investments in disruptive startups with high growth potential

Rounds held 04

Registered Startups

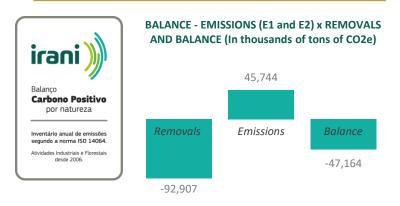


160





Environmental



Social

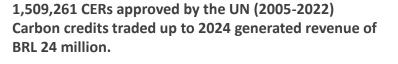


We are Great Place To Work

For the sixth time!

Ser Humano Top Human Being

Recognized for the seventh time!







More than **BRL 1.9 million**

invested in education and training annually

Governance





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

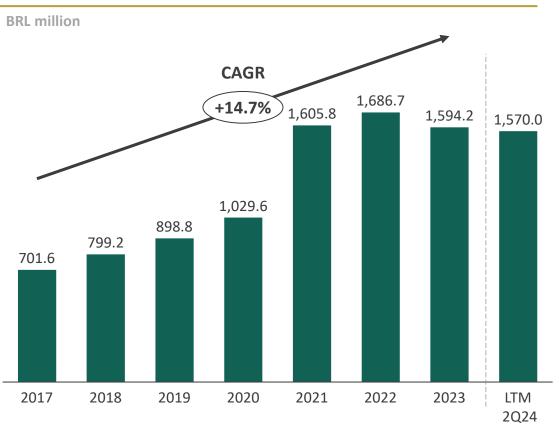
Financial statements audited by pWc.



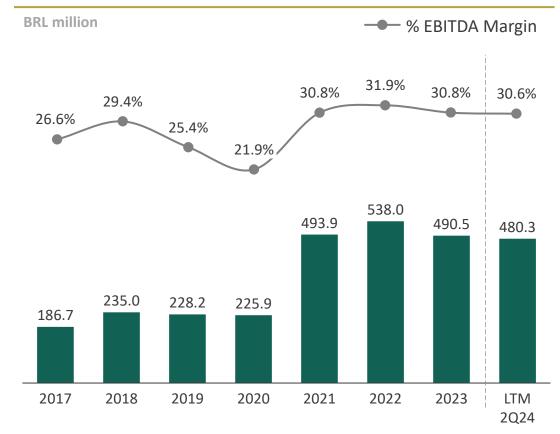
Our competitive advantages support solid financial results



Net Revenue



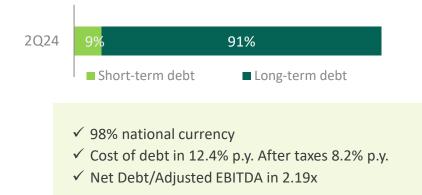
EBITDA



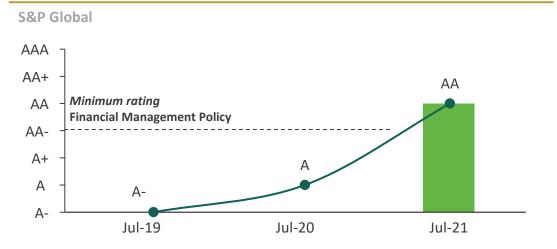
We are on a path to creating differentiated value for shareholders



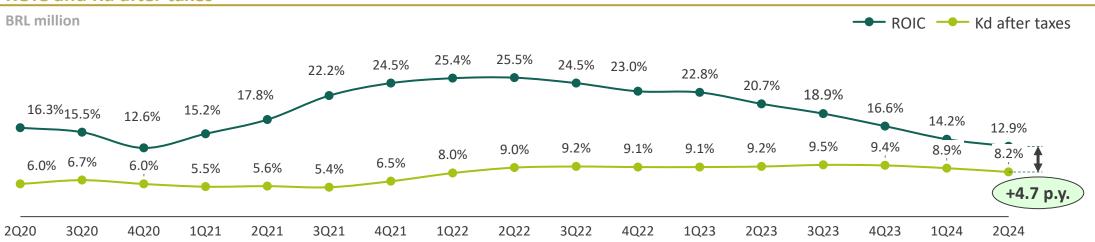
Debt Structure



National Scale Issuer 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 has been providing a significant improvement in the production mix, in addition to several operational efficiency gains

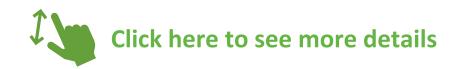


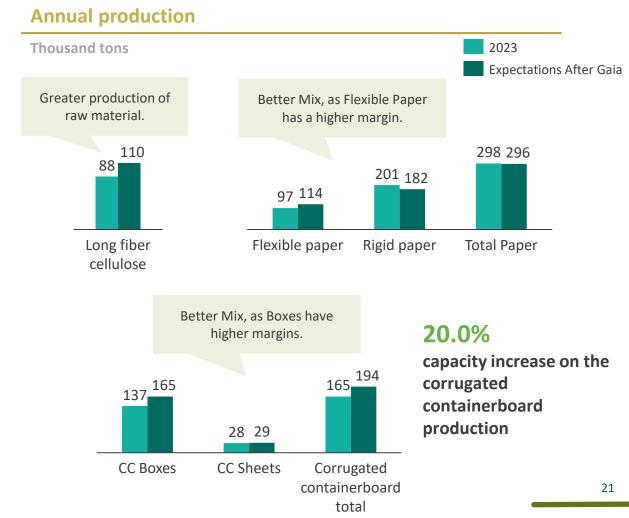
BRL 1.17 billion of investments

- 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)







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



SUSTAINABLE DEVELOPMENT GOALS

1 OCCUPATIONAL SAFETY	Zero work accidents with leave	
	Having 40% of women in the company Having 50% of women in leadership positions	5 de dénero
3 WATER	Reduce water consumption by 30% per ton produced	6 AGUA POTÁVEL E SANEAMENTO
	Being self-sufficient in renewable energy generation	7 ENERGIA LIMPA E ARESSIVEL
5 WASTE	Stop waste shipment to landfill	12 consistence producato responsavers
6 CLIMATE CHANGES	Increase the positive balance between emissions and removals of Greenhouse Gases (GHG) by 20%	13 ACAO CONTRA A NO ANCA SCOBAL DO CIMA



Links to more information



Websites:



Investors Relations Website



Other documents:



Integrated Report



Financial Statements



Reference Form



Historical operating data

Presentations:



Institutional Presentation



Results Presentation



Earnings Release

DISCLAIMER

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