

GPA Brands, Numbers, History and Strategy

Numbers

Part of French Casino Group

#1 traditional retailer

#2 wholesale self-service

2017 gross sales - BRL 48.4 billion

600 million Tickets

91.000 employees

23 DCs and warehouses

1135 stores in 19 Brazilian states



GPA Brands, Numbers, History and Strategy Brands



Hypermarkets and Supermarkets



Supermarket Premium and Food Delivery





Neighborhood Stores





Other Businesses
Drugstores and
Gas Stations



Self-servisse Wholesale



GPA Brands, Numbers, History and Strategy

Brands

Extra

Hipermercados e Supermercados







#Lojas **Hipermercados 118** Supermercados 188 Pão de Açúcar

Premium Supermercados





#Lojas Supermercados:185 **Food Delivery**

Proximidade









#Lojas Minuto: 82 MiniMercado Extra: 183 Aliados CompreBem: 433 **Outros Negócios** Galerias Comerciais Drogarias e

Postos de Combustível





#Loias Drogarias: 130 Postos de Combustível: 72 GLA~262.000m²

Atacado de Autosserviço





Assaí: 115



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History

1971



1st hypermarket in Brazil

1993



1st delivery in Brazilian market

2007



Assotiation with Assaí wholesale self-service

2011



1st first neighborhood store

1948

1st Pão de Açúcar store in São Paulo



1981

important season of supermarket chains acquisitions 2004

partnership with Itau bank



2009

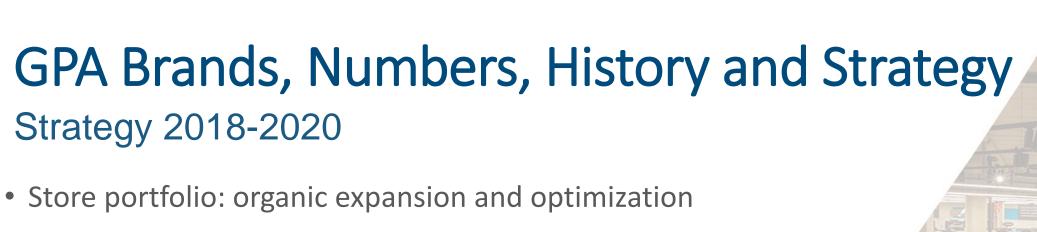
Hardlines: Ponto Frio acquisition and association with Casas Bahia



2017

Digital
Transformation
app
My Discount





 Focus on formats and concepts of higher return – wholesale, new concept in Pão de Açúcar stores

- Repositioning of the retail formats offer
- Development of Private labels
- Digital transformation related to customer contact and operations
- Expansion of financial services, leveraging the expertise of the joint venture with Itaú Bank

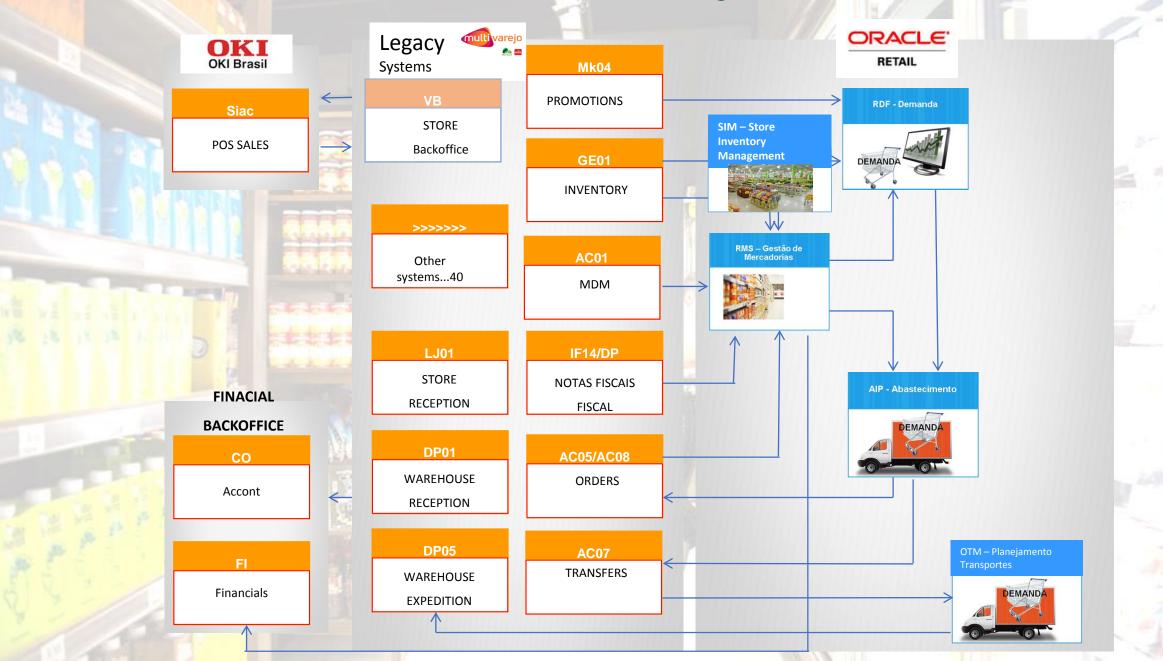


The GPA Demand Forecast Journey Oracle Retail Footprint @ GPA

6 Retail Modules 49 Legacy and Satellites Systems

- Oracle Retail Merchandising System
- Oracle Retail Advanced Inventory Planning
- Oracle Retail Demand Forecasting (on premise)
- Oracle Transportation Management
- Go live 2018 1st half:
 - Oracle Retail Merchandising System + Oracle Retail Fiscal Management Monet Project
 - Oracle Retail Demand Forecasting (cloud)
- Go Live 2019 1st half:
 - Oracle Retail Store Inventory Management
 - Oracle Retail Allocation

The GPA Demand Forecast Journey - The Project - Architecture



The Oracle Demand Forecast Journey

v9 – v13.2	v13.3 - v13.4	v14.0 – v14.1	v15	v16
2002 – 2010	2011 - 2012	2013 - 2014	2015	2016
 Baseline Forecasting Bayesian Forecasting Promotional Forecasting Historical Demand Estimation Promotional Event Effects Regular Price Effects Configurable Science 	 Cross-promotional Effects Promotional Price Effects Flexible Science RPAS Fusion Client Support 	 Returns Forecasting Overlapping Promotion Effects Demand Transference 	 RDF Cloud Service Launch Flexible Source Level Groupings Aggregate Causal Modelling Attribute-based New Item Forecasting Expanded Short Lifecycle Forecasting 	 Exception-driven Processes Streamlined New-item Forecasting Extensible SaaS







GPA started its transformational journey

Creation of a Forecasting team and started using demand forecasting

2011-2013 Roll out for all categories

No implementation of upgrades, loss of statistical competencies

2017 Decided to upgrade to cloud version

Move to the cloud project go live, reinforce team competencies

Multivarejo Forecast main data



Department	SKUs	Forecast Combination
Grocery	36.000	4.500.000
Fresh Products	31.000	2.400.000
<u>E</u> Bazar	34.000	1.200.000
Textile	14.500	370.000
Electronics	6.500	90.000
Total	122.000	8.560.000

Promo Share: 57%

People: 40



Multivarejo Forecast RDF Scope



GPA Supply Chain Process with Oracle Retail







Moving to the Cloud – Why change now?

Business Recap technological gap (V13)

- Oracle is the core for all demand forecast and automatic supply
- Needed new functionalities from cloud version
- Environment integrity and safety

- Reduce out of stock and inventory
- Increase accuracy (actual ~75%)
- Increase sku/store accuracy (actual ~50%)
- Improve demand forecast for promotional items (+ 57% of sales are promotional)

The Project - Implementation Partner: Oracle Retail Consulting (ORC)

Step 1

Improve on-premise

- ✓ Get quick wins
- ✓ Improve baseline forecast accuracy changing historical cleaning method
- ✓ Quick win for non-promoted items or periods

Move to Cloud

- √ +Functionalities
- ✓ Model the promotion price information into causal forecasting
- ✓ Started with a pilot for 2 categories April 2018
- ✓ Expand to new categories after initial pilot S2 2018

The GPA Demand Forecast Journey Forecasting Improvement Results Over the Years

- Orders are done based on forecast demand for all Grocery and major part of Fresh
 Products + Bazar
- Only a part of promotions is based 100% on system uplift
- Forecast accuracy from 50% to 75% at aggregated level
- Out of stocks reduced by 25%

Moving to the cloud:

- We are in the middle of migration starting homologation
- Improved accuracy at store/SKU level
- Better history cleaning and more accurate and specialized forecasting algorithm
- More automatized Promotional Uplift
- Gain of time and team optimization





Recommendations | Lessons | Expectations

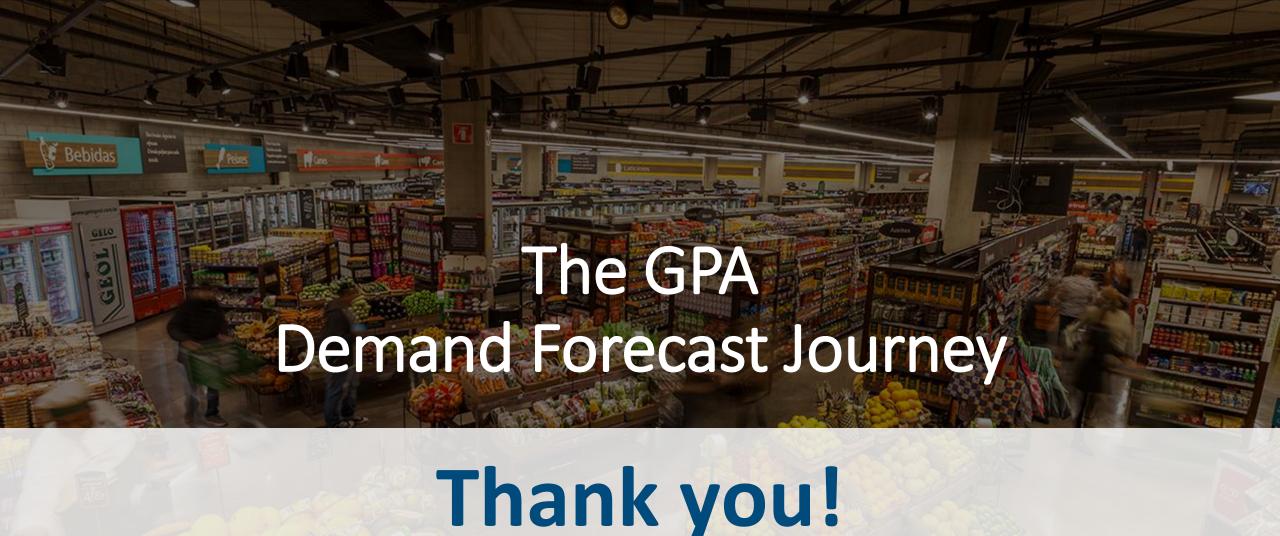
Recommendations

- Skilled demand forecast staff and retail oriented consulting team
- Important to mix IT with high qualified forecast professionals
- Validate the results fast so you can keep improving
- Keep a permanent updated system footprint
- Check infrastructure:
 - data connectivity, security, storage, performance earlier as possible for the new environment
- Even for Cloud Version: Start by a deep training and GAP understanding

Recommendations | Lessons | Expectations

Next steps and Expectations

- Reduce out of stock by 50%
- Reduce Company Stocks by 22%
- RDF feed with all the promos faster in RDF Cloud
- Use more modern forecast algorithm and different ones per product category
- Better modeling the promotion price information into the forecasting
 - Contribute to the key strategic objectives of the group
 - Store portfolio optimization



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