

Proposed by Zahra Noury – August 2025

# Olist E-Commerce Performance

# Purpose of the Study

### Goal

- Analysed 100,000+ orders, 50,000+ customers
- Highlights marketplace strengths and value leakages
- Provides insights to guide merchandising, logistics, finance, and customer experience strategies for the next year

### **Dataset**

- Kaggle's Olist relational database
- January 2017 August 2018 sales history.

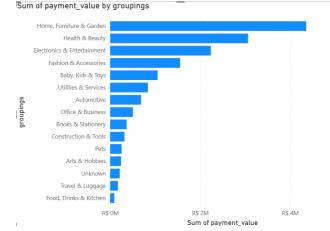
# **Product and Sales**

### **Findings**

- Home & decor lead sales R\$ 4.3 M
- Arts, Hobbies & Office average R\$ 260–290 per
- Electronics & Office drive many return orders
- Saturday orders run 35 % below Tue–Wed

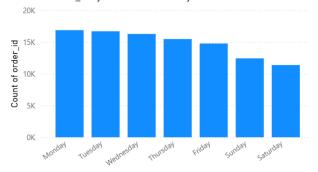
#### **Action Plan**

- Increase ads, top-of-search placement
- Offer premium bundles, and Buy-Now-Pay-Later in Arts & Hobbies and Office & Business.
- Add points or "subscribe & save" programs for Electronics and Office.
- Send Friday evening alerts and Saturday free-shipping codes to lift sales.



#### Count of order\_id by Purchase Weekday

Count of product\_id and Count of order\_id by groupings



#### Purchase Weekday

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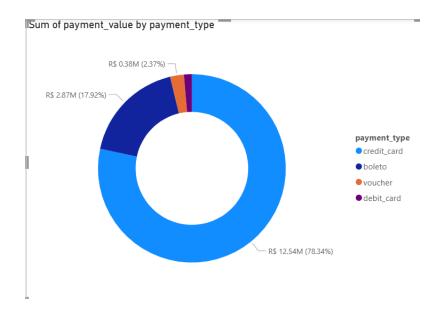
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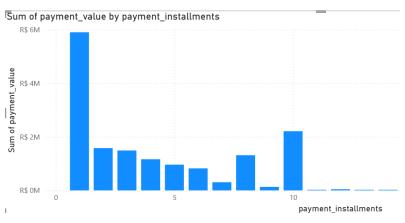
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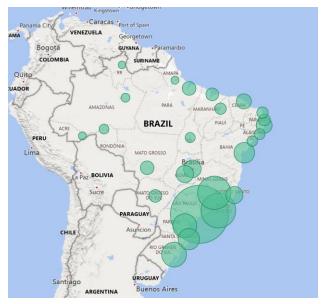


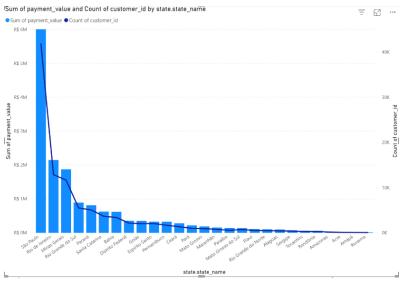
# Payment

### **Findings**

- Home & Furniture & Garden tops at R\$ 4.3 M; Health & Beauty and Electronics & Entertainment R\$ 3 M each
- Arts & Hobbies AOV R\$ 290
- Total paid value R\$ 16.0 M; card payments average 3.8 instalments.

- Add a second acquirer or activate Brazil's instant payment system, low-cost payments.
- 0 % interest up to 6x; tiered interest for 7–12x.
- Send reminders; auto-cancel after 48 h if unpaid.
- Give 1 % instant cash-back on debit and meal-voucher payments.





# Customers and Geolocation

### **Findings**

- Sao Paulo 37 % of revenue (R\$ 6 M) and 42 K customers; Rio (13 %) and Minas (12 %) trail behind.
- Top 5 states = 73 % of revenue
- Big baskets, small states: Paraíba, Acre, Rondônia AOV R\$ 240–250 vs SP's R\$ 150.
- Dense demand along the coast; north/interior pockets are sparse but present.

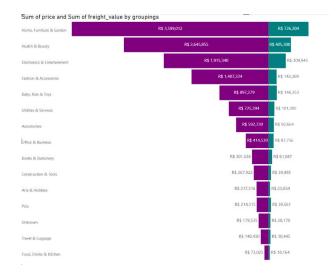
- Add fulfilment hub to speed delivery and defend share.
- Run targeted ads and set free-shipping thresholds to lift orders.
- Accelerate seller onboarding to reduce revenue concentration.

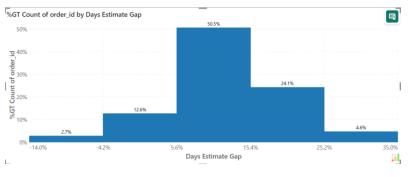
# **Delivery Performance**

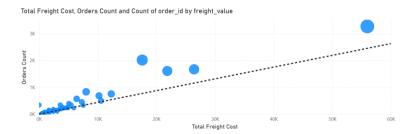
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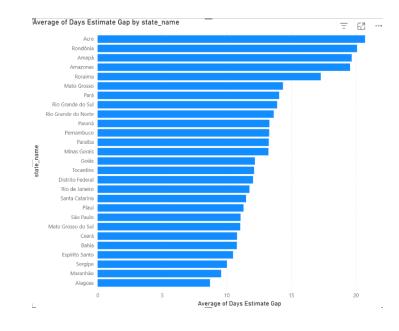
- Shipping is 17–20 % of value in top categories (Home, Health & Beauty, Electronics).
- Arts & Hobbies has the steepest freight-to-price ratio;
   Food/Drinks the lowest.
- Higher freight doesn't curb order counts
- 96.3 % of revenue comes from "delivered" orders.
- 50.5 % of late orders fall within a 6–15-day slippage band.

- Premium shipping: Offer paid "Same-Week Delivery" for 12day+ categories
- Show freight-to-item ratio and flag when it's below category average.









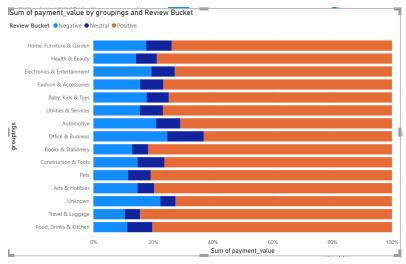


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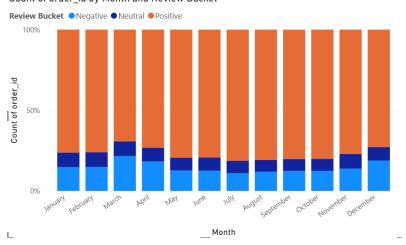
# **Findings**

- Acre, Rondônia, Amapa run 18 + days late;
   Alagoas beats estimates by 11 days.
- Travel & Luggage overruns by 12.6 days; Food & Drinks by 10.6 days.
- Approve 0.5 days, To carrier 2.7 days, Purchase to delivery 12.5 days average.

- Add regional hubs in Acre, Rondônia, Amapa.
- Issue late-shipment scorecards with penalties & bonuses.



#### Count of order\_id by Month and Review Bucket



# **Reviews and Sentiment**

# **Findings**

- Travel & Luggage 4.33, Office & Business 3.78.
- Positivity stays ≥ 75 % year-round; March & December see more negatives.
- Office & Business hold most neutral/negative revenue; Travel & Luggage the least.

### **Action Plan**

 Add extra agents and enable FAQ chatbots for March & December.

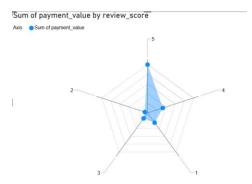
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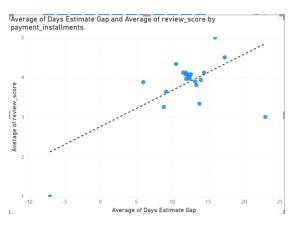
# **Findings**

- More than 70 % of revenue are near to 5; less than 10 % below 3 star
- Delivered orders average 4.; other statuses less than 2.6.
- Amapa & Amazonas 4.18; Rio 3.87.

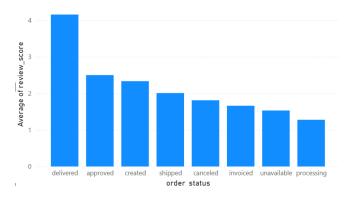
# **Action plan**

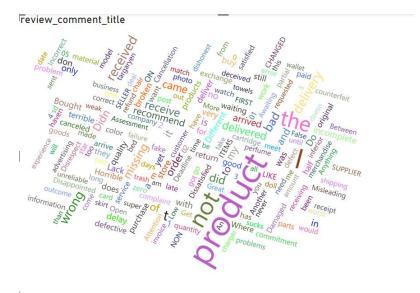
Allow no-questions-asked returns





Average of review\_score by order\_status







# **Reviews and Sentiment**

# Finding

Negatives: delay/missing/wrong items, Positives: recommend/delivery/excellent.

• Overall average 4.16 across 99 k orders.

# **Action plan**

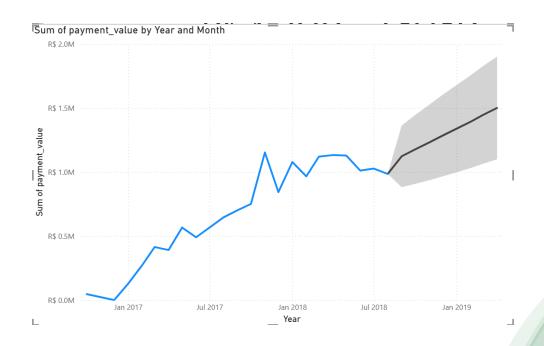
• Faster helpdesk local-language support

# Forecasting

### **Finding**

- Marketplace up 45 %by Mar 2019
- Growth: Home & Furniture & Garden, Health & Beauty, Fashion, Auto, Construction, Pets, Arts & Hobbies, Food & Kitchen.
- Stable: Electronics & Entertainment, Baby & Kids & Toys, Office & Business, Books & Stationery.
- Decline: Utilities & Services, Travel & Luggage.

- Re-stock best-sellers quickly; keep safety stock to avoid sell-outs.
- Bundle accessories with main items to raise basket size without heavy discounts.



# Key wins

- Focus ad spend & inventory on Home, Health & Beauty, and Electronics
- Weekend push notifications + free-shipping
- Accessories add-ons raise margin while keeping prices stable.
- Micro-fulfilment hub near Sao Paulo and cross-docks in Acre and Rondonia and Amapa
- Late-shipment scorecards drive on-time performance to 98 %.
- Auto-cancelling unpaid Boletos after 48 h frees inventory faster.
- Loyalty points and "subscribe & save" for Electronics & Office.
- No-questions returns on top-5 orders states

# Thank you