

IMPROVING TOLLING PERFORMANCE WITH ANALYTICS

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BRISA

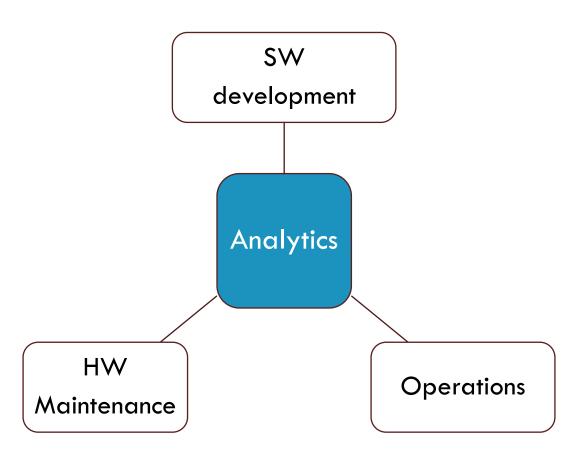
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Increasing the performance and efficiency of toll collection, while improving the quality of customer service







ETC

DSCR performance LPR performance Availability AUTOMATIC

Automation level Availability Throughput

Resources

MANUAL

Throughput Resources

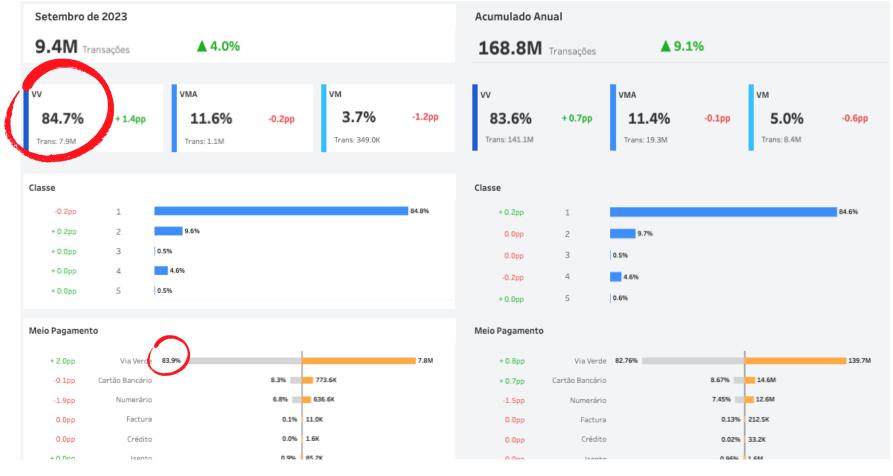
Effective charging | Efficient operations | Quality of service



Tolling profile



Toll transactions by September 14, 2023 in comparison with September 2022





84.7% ETC transactions



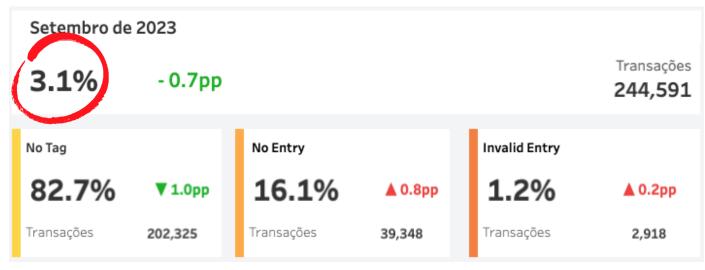


DSCR performance

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Incomplete ETC transactions (free-flow schema)



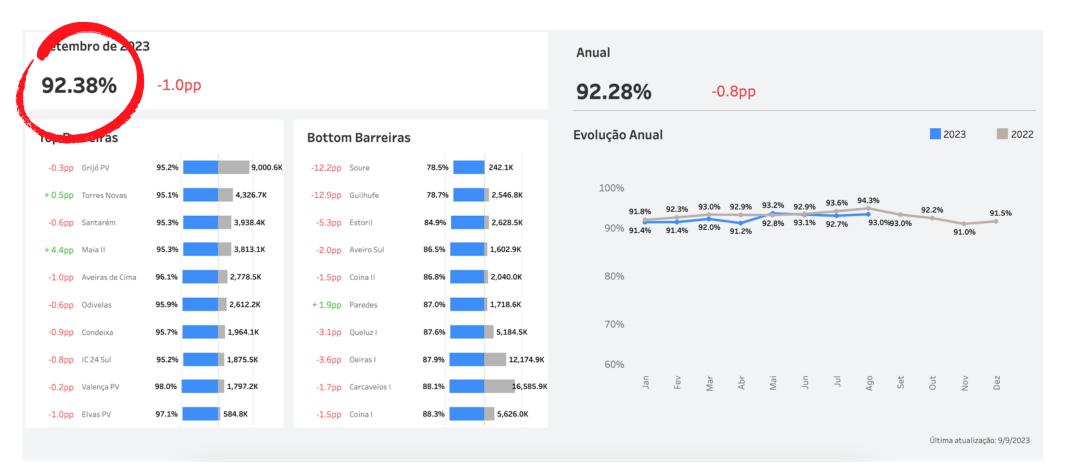


3.1% of ETC transactions are incomplete

LPR performance



Enforcement LPR (for incomplete transactions)



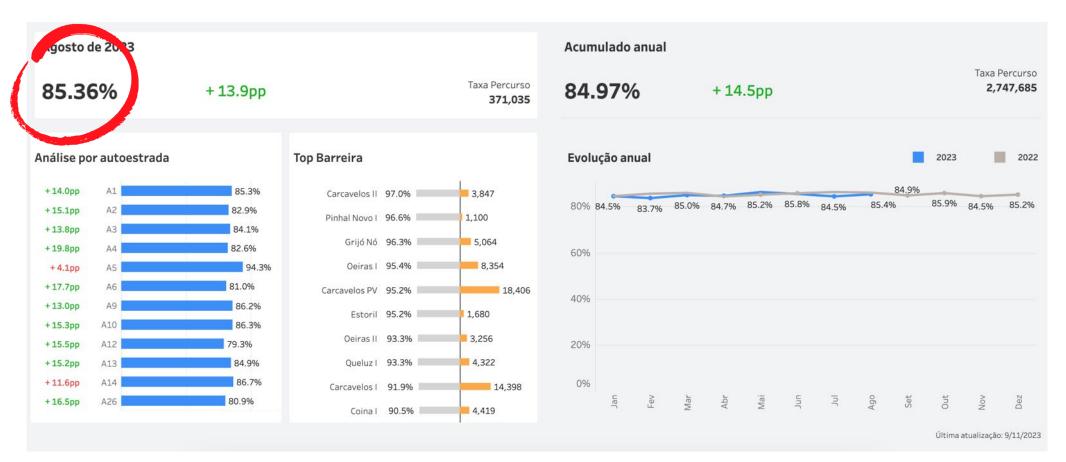


92.4% of ETC incomplete transactions with automatic LPR

ETC performance



Recovery rate (for incomplete transactions)



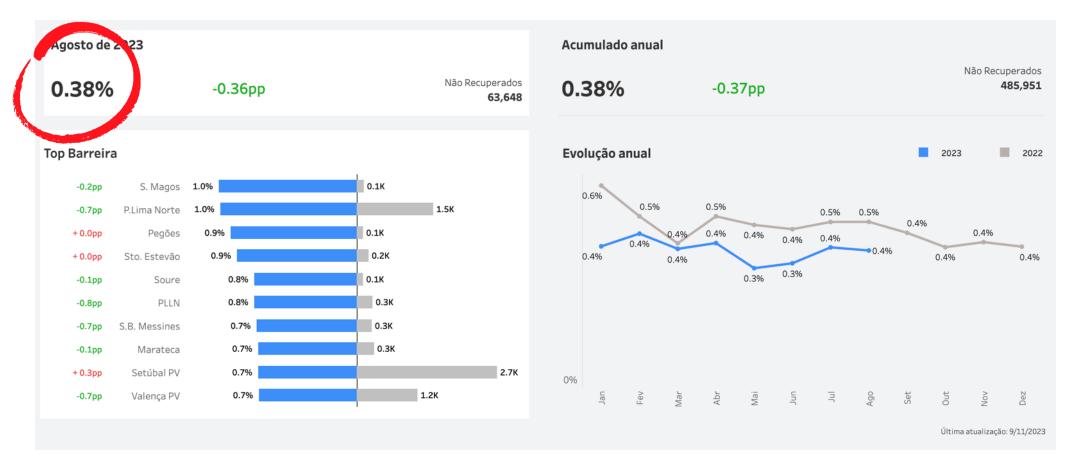


85.4% of ETC incomplete transactions are completed with the route

Effective charging



Rate of revenue loss



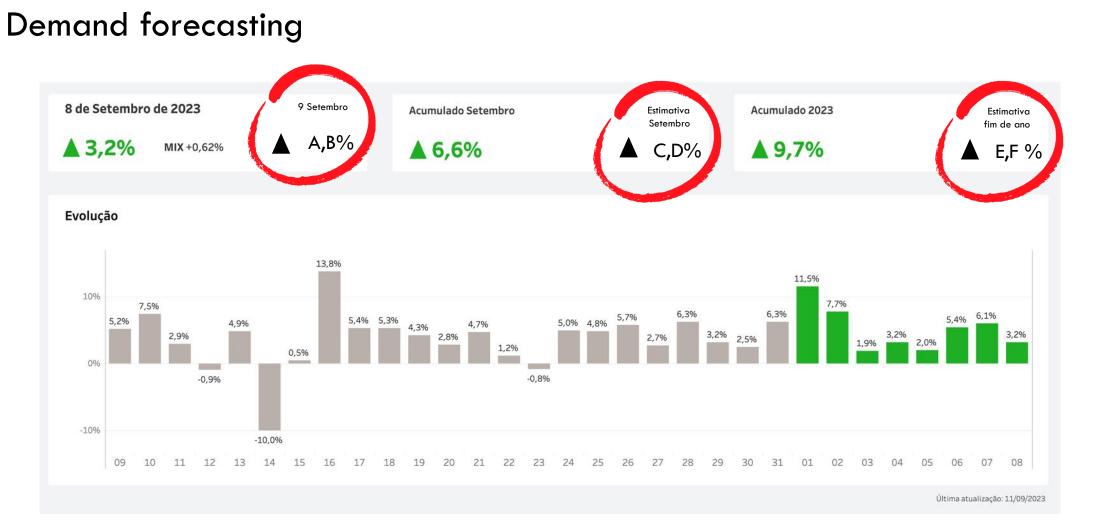


Less than 0.4% of revenue loss in ETC

Future works

Advanced analytics







What will happen?

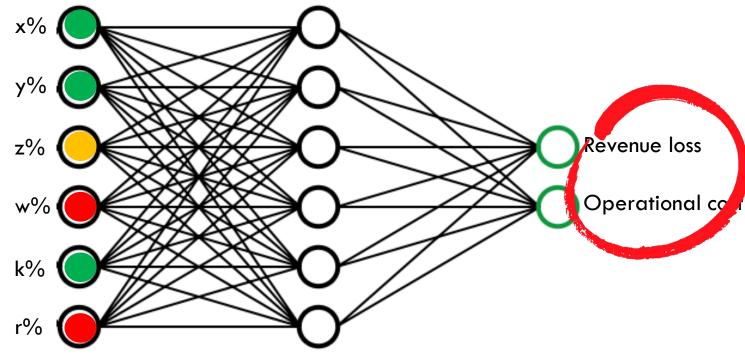
Advanced analytics



Prescriptive analytics

- 1. DSRC performance (exit lanes)
- 2. DSCR performance (entry lanes)
- 3. LPR performance (exit lanes)
- 4. LPR performance (entry lanes)
- 5. Recovery rate

6. ...





What happened? -> What will happen? -> What to do to avoid it?



Recursive analytics can drive the innovation in tolling.

Advanced analytics can go further, anticipating and changing the future.



THANK YOU

Improving tolling performance with analytics

Jorge Lopes

Brisa



