



Claro^o-Brasil



Using big data and analytics to improve customer experience

the experience of Claro in the use of Big Data to transform the relationship with its customers, improving results, increasing profitability and boosting the quality of service

- **Who we are?**
- How we have used Analytics
- Examples

We are a Giant Company

Top Telecom operator in
Latin America



Claro-Brasil



- **Biggest operation of Grupo América Móvil**
- **60,1 MM** mobile phones
- **11,1 MM** fix telephony
- **8,6 MM** Broadband
- **9,9 MM** Pay-TV

In continuous evolution...

PRODUCT FOCUS
Product Innovation



CONNECTION FOCUS
Connecting people,
houses and companies



SOLUTION FOCUS
Convergence in
multiservices



*for complete and
converged solutions*



Enhance the customer experience Based on a
complementary and integrated infrastructure

*From a product-
focused company*



A strategy that goes beyond Connection



And that adds value to the Connection...

Adding Value to the Infrastructure
CRM + Network + Analytics

ADVERTISING



**BIG DATA
ANALYTICS**



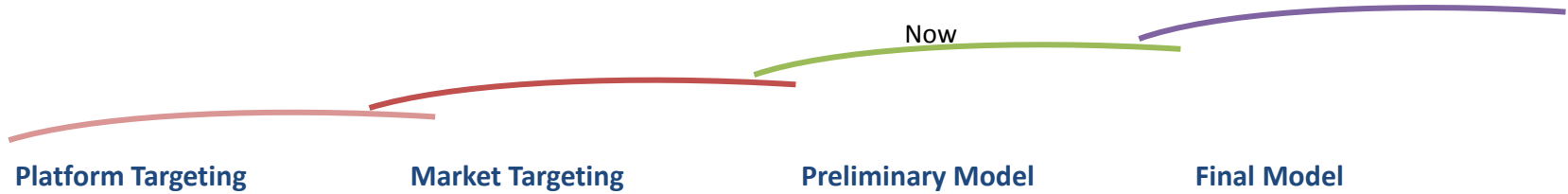
**IOT
SERVICES**



- Who we are?
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It begins with the construction of a preliminary model, with the addition of variables not yet studied

Development stages



Platform Targeting

Market Targeting

Preliminary Model

Final Model

History

- 14 variables
- Decision Tree
- Very different results per platform

- 14 variables
- Decision Tree
- The answer was always directed towards geographic separation (segments of cities, DDD's, etc.)

- 500 variables in 1 month
- 12 models (3 platforms x 4 segments)
- Machine Learning Techniques (gradient boosting)

- We'll add more history to the response variable

Conclusion

- Need 3 models per platform

- We defined 4 groups with different behaviors

- We grouped in 1 "model" per platform with satisfactory result

From the inclusion of other groups of variables, the model is enriched

	Data	Details
Already included in the template (+500) ✓	Register	▪ Sales channel information, demographic partner and wired area
	Consumption	▪ Voice, data and SMS consumption
	Billing and payment	▪ Amount of invoices, payment data / defaults
	Devices	▪ Model and technology of the device
	Market data	▪ City Segmentation, Human Development Index (HDI)
	Community	▪ Identity of community to which each user belongs
To be potentially included	Products	▪ Possession of products at home or CPF
	Customer Care	▪ Calls in service channels with their respective reasons
	Campaigns	▪ History of participation in marketing campaigns and their results

In the exploratory analysis and modeling phase, besides the construction of the models, we have the generation of strategic insights

Analysis of variables already available, through modeling techniques.
Still in very simplified views, because of the low amount of data

Analysis Products

A

Modeling

- Construct models of propensity for convergence, with explanatory power / prediction;
- Direct better audiences;
- Optimize effort and leverage results;
- Selection of the most relevant variables.

B

Generating Insights

- By-product of analysis for modeling;
- Understanding of audiences with different conversions;
- Simplified view of model and complex for strategy.

- Who we are?
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- **Examples**

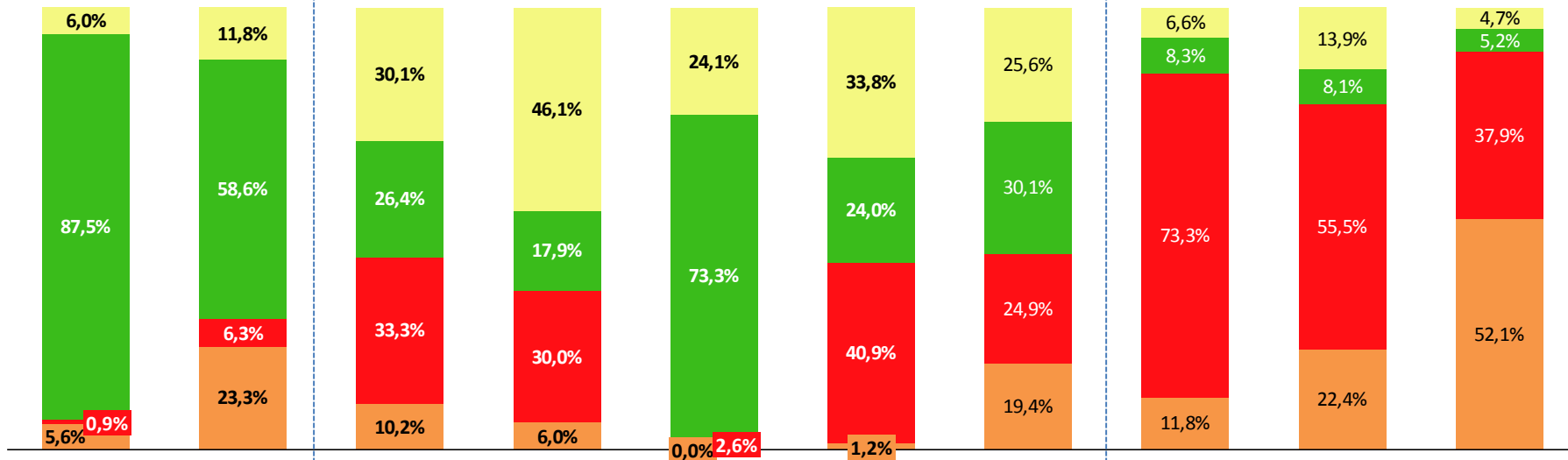
Sales acceleration plan

■ Low Capture x Low Desc
 ■ High Capture x Baixa Desc
 ■ Low Capture x High Desc
 ■ High Capture x High Desc

Rich, high capture, low disconnect
"Cruising Speed"

Middle class, increased disconnect
"No energy"

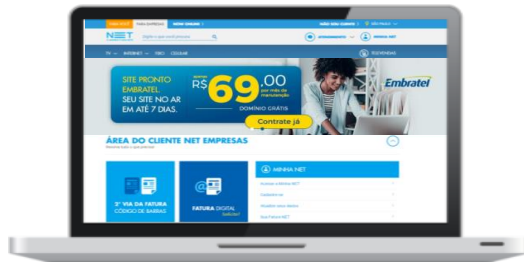
Medium and low income, low catch and high disconnection
"Down hill"





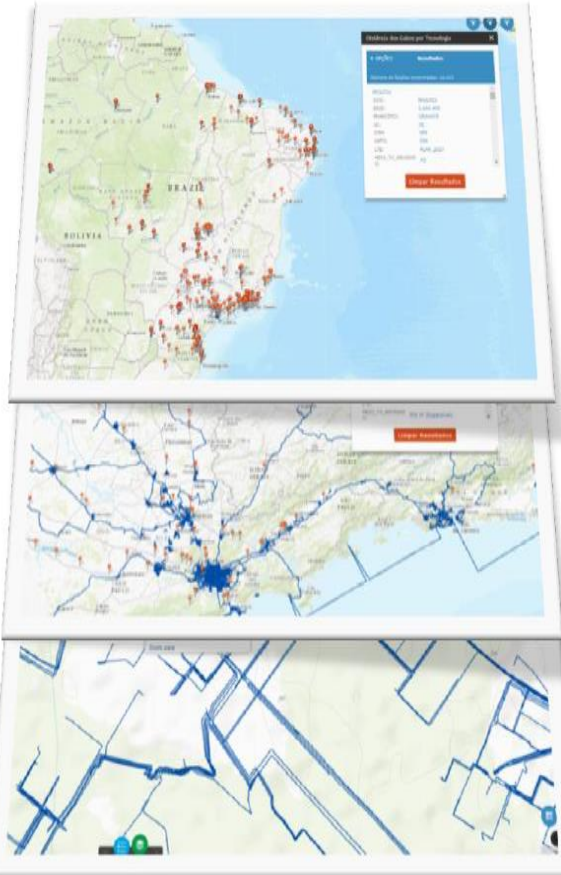
One CMS (Content Management System)

It allows the segmentation of content and offer of suitable content to the right person



**CROSS CONTENT AMONG SITES:
Communication from Cloud
Embratel in site NET**

1. Online sales
2. Digital Service
3. Segmented communication
4. Quick Mailing
5. Predictive Recommendation
6. Self-management of the Technical Visit
7. Active digital channels
8. Convergence between brands
9. Artificial intelligence
10. NOW Online



- Where is my fiber network?
- Where are my sites / antennas?
- Where is the infrastructure of the main competitors?
- What are the sites with leased transmission medium?
- Which sites do I have the possibility of replacing the third party transmission by myself?
- Which sites are served by Satellite?
- etc..

CASE SERTTEL

CLOUD



Would Serttel's business model be viable without the use of technology?

MOBILITY



IOT



BIG DATA

