TIM BRASIL

ITU Workshop on QoS and QoE of Multimedia Applications and Services Haarlem, 11 May 2016

Using Big Data to raise Customer Satisfaction The CEM Initiative

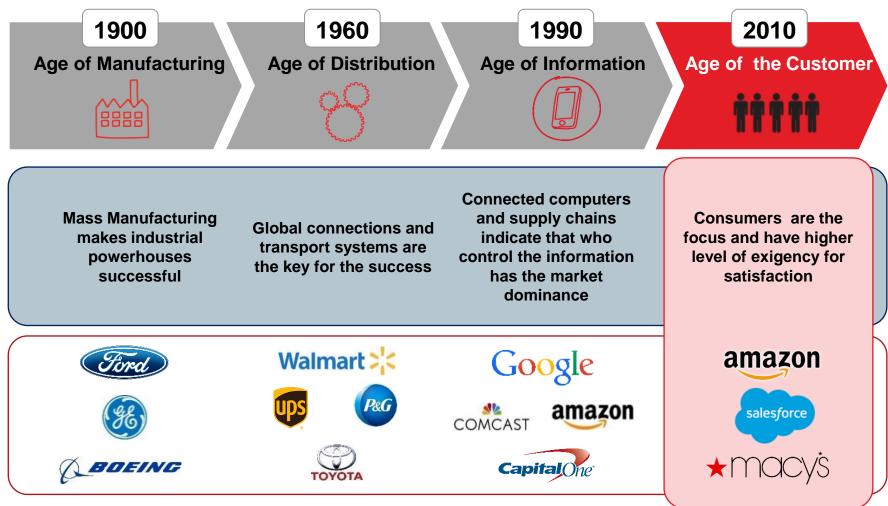
Marcio Lino Regulatory, Institutional and Press Relations

TIM



Introduction

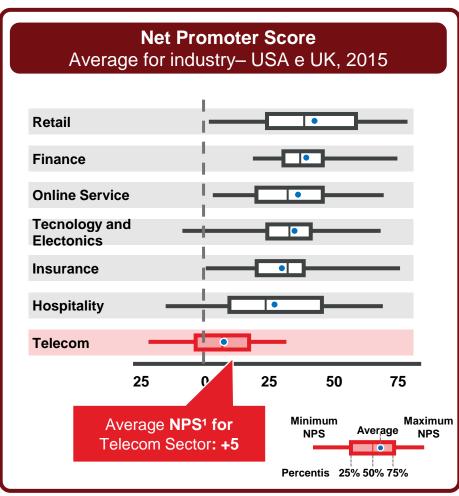
The new Age is focused on Customer satisfaction...

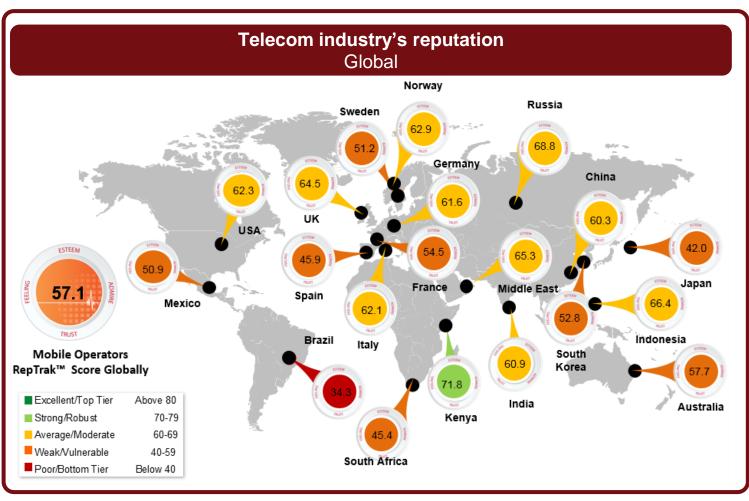


Source: Forrester Research - Competitive Strategy In the Age of the Customer - October/2013



Around the world the telecom sector has difficulties regarding customer satisfaction





NPS: Net Promoter Score - Source: SatMetrix 2015

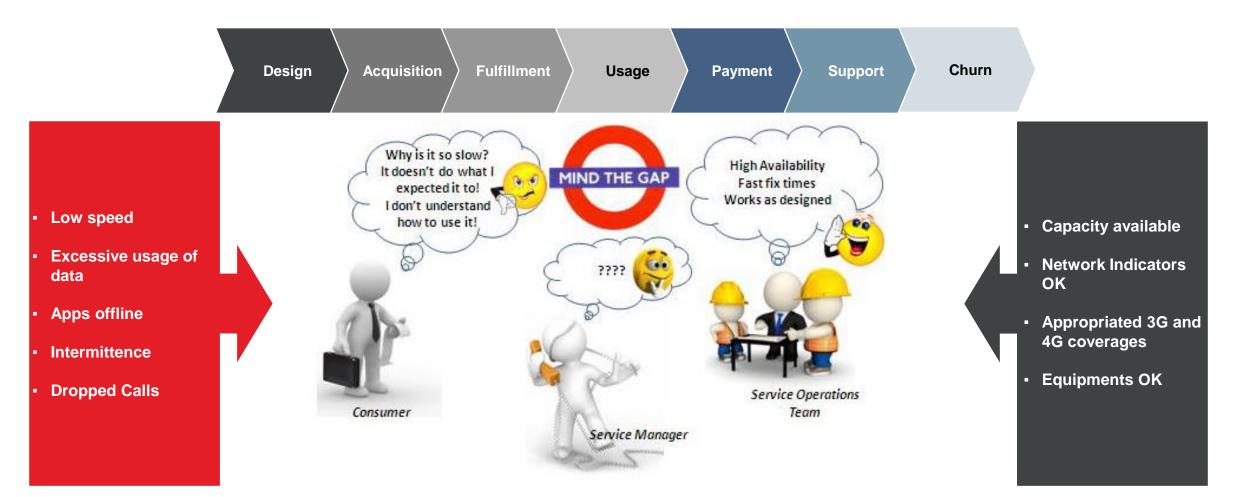
ESPM – Indice Nacional de Satisfação do Consumidor (INSC) – August/2015



Source: GSMA & Reputantion Institute - 2013/2014

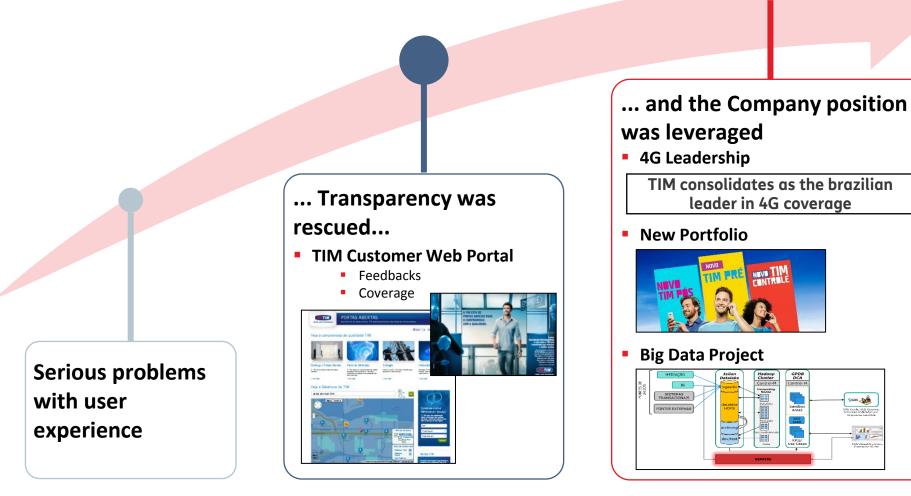
It is common to find differences between evaluation of Service Providers about their service and customer perception

Source: TMForum



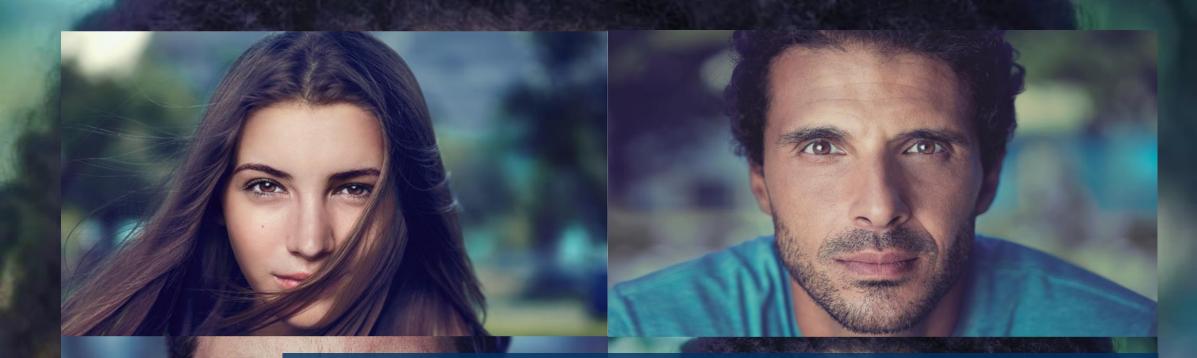


And TIM already started this long journey to become a customer-focused company



source: TIM Brazil





TIM Initiatives

TIM is modifying its operations in order to focus increasingly on the experience of its customers

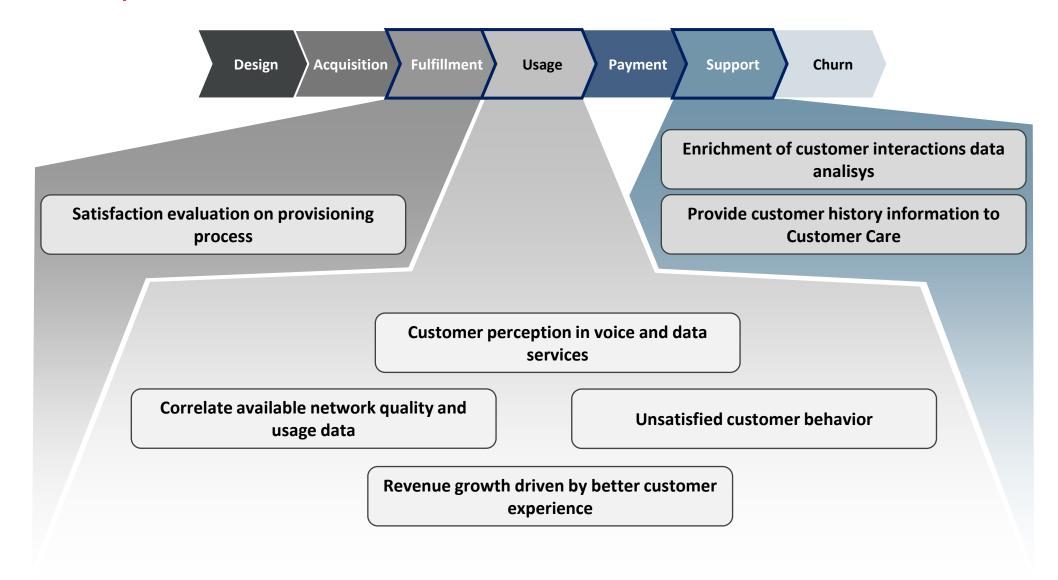


Some initiatives already started at TIM





TIM Initiatives | Main Use Cases





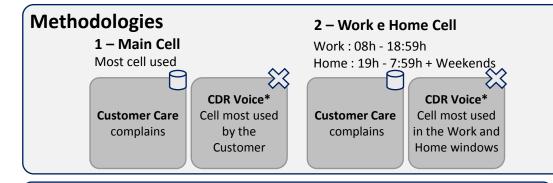


Use Cases

Location of Customer Care Interactions

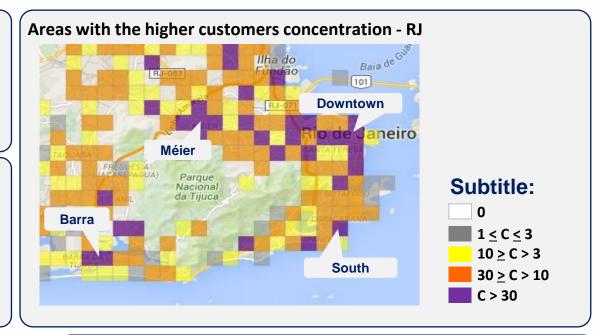
Concept

- Identification of users who complained about Service Quality
- Locating of users through the Maincell, Workcell and Homecell in quadrants with approximately 1,5km²



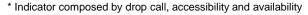
Results

- Identification of areas with high and low concentrations of users with interactions with Customer Care
- It was not identified any correlation with the serveability* index



Benefits

- Areas for activities prioritization and investments optimization
- Increase of customer experience visibility
- Enrichment of customer information available on the Customer Care





SpeedTest Per Customer

Concept

- Identification of TIM customers in SpeedTest Base using information available in other systems
- Mapping the Customers performance regarding to speed and latency tests
- Mapping the customer behavior in service channels

Methodologies

SpeedTest		Customer Care	Customer Care
	Identification of		
Measurements	customers with	Complaints	Listening of
with low speed	SpeedTest	made through	customer care
3G / 4G	measurements	any channel	attendances

Results

- Two customers who made tests in Speedtest were indentified with data service problems and call center complaints.
- Identification the throughput of segments and plans

llustrative						
Customer 1						
DATA	MUNICÍPIO	CÉLULA	TEC.	DL (kbps)	UL (kbps)	Lat. (ms)
09/07/2015 08:32	TERESINA (PI)	PW1100A	3G	2343	937	191
09/07/2015 08:33	TERESINA (PI)	PW1100A	3G	1088	639	143
09/07/201508:34	TERESINA (PI)	PW1100A	3G	49	684	166
09/07/201508:34	TERESINA (PI)	PW1100A	3G	61	1089	151
09/07/2015 08:35	TERESINA (PI)	PW1100A	3G	51	845	163
09/07/201508:36	TERESINA (PI)	PW1100A	3G	59	1231	157

Benefits

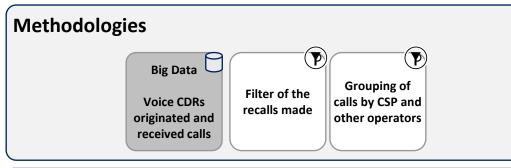
- Understand how customer experience influence on the customer care complaints indicator
- Visibility of misunderstanding or lack of information during customer care



Voice Quality Indicator

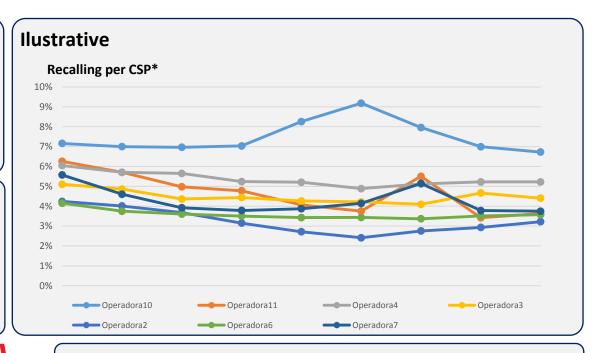
Concept

- Recalling: consecutive calls between two users A and B within 120 seconds between the end of the first one and the beginning of the second.
- Recalling Type 1: TIM → TIM or TIM → Other Operators
- Recalling Type 2: Other Operators → TIM



Results

- Mapping of CSPs that have higher rates of recalls
- Recalling indicators by operators for recalling Type 1 and Type2
- Recalling indicators for each device vendor (Apple, Samsung, LG...)
- Recalling indicators for customer care



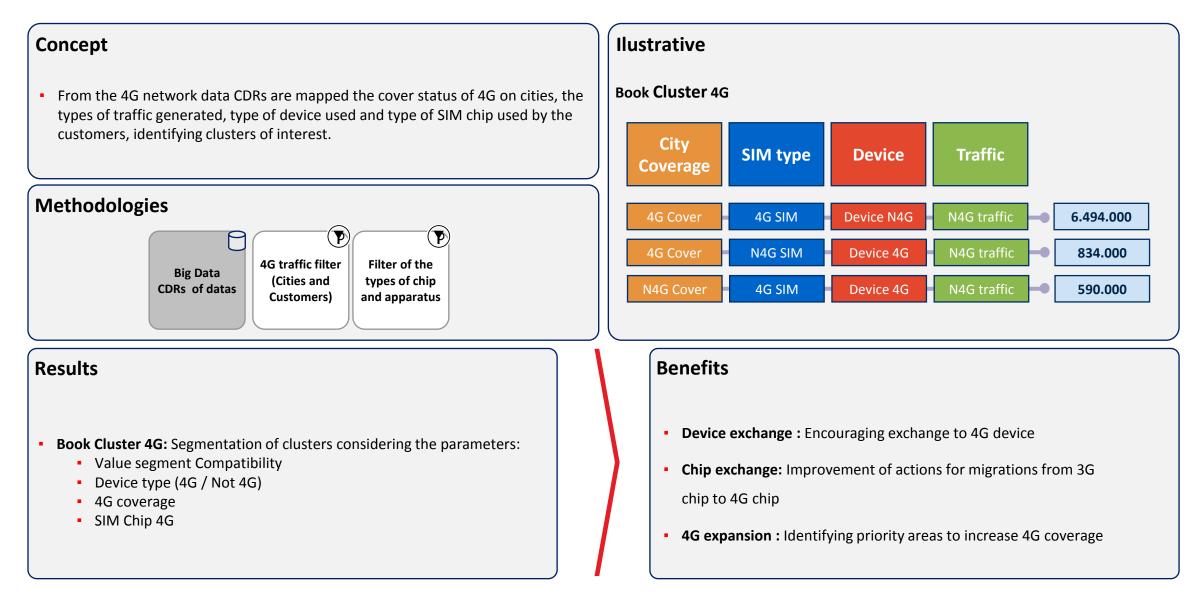
Benefits

- Understand of Other Operators' CSP usage and encourage the use of TIM's CSP
- Improve network and interconnection with other operators
- Prioritize manufacturers and devices with lower rates of recall
- Understand the behavior and prioritize investments in order to improve the customer care

*Código de seleção de prestadora



Customer X Service X Device



Thank You!

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TIM