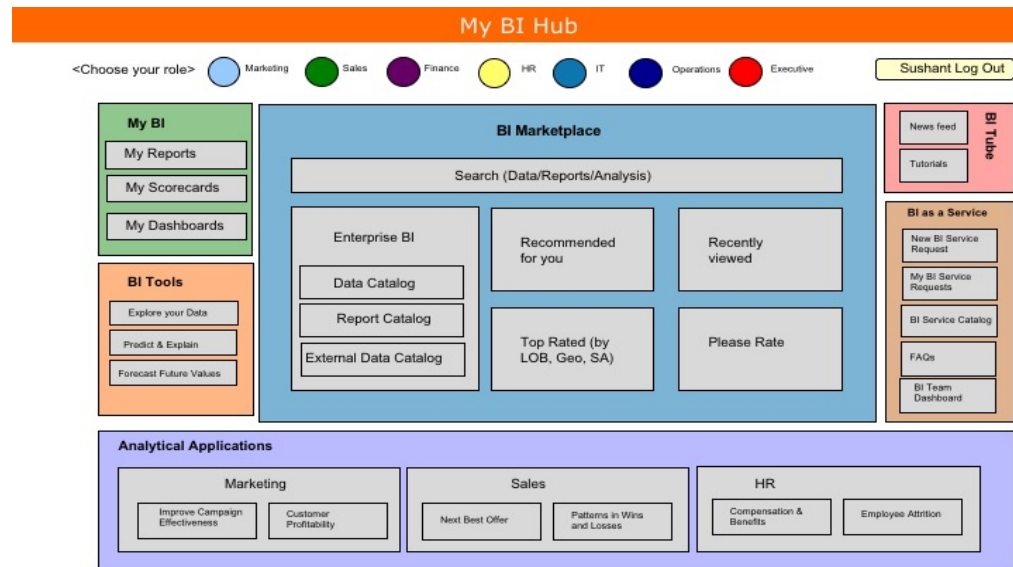


Current

Portfolio 2018

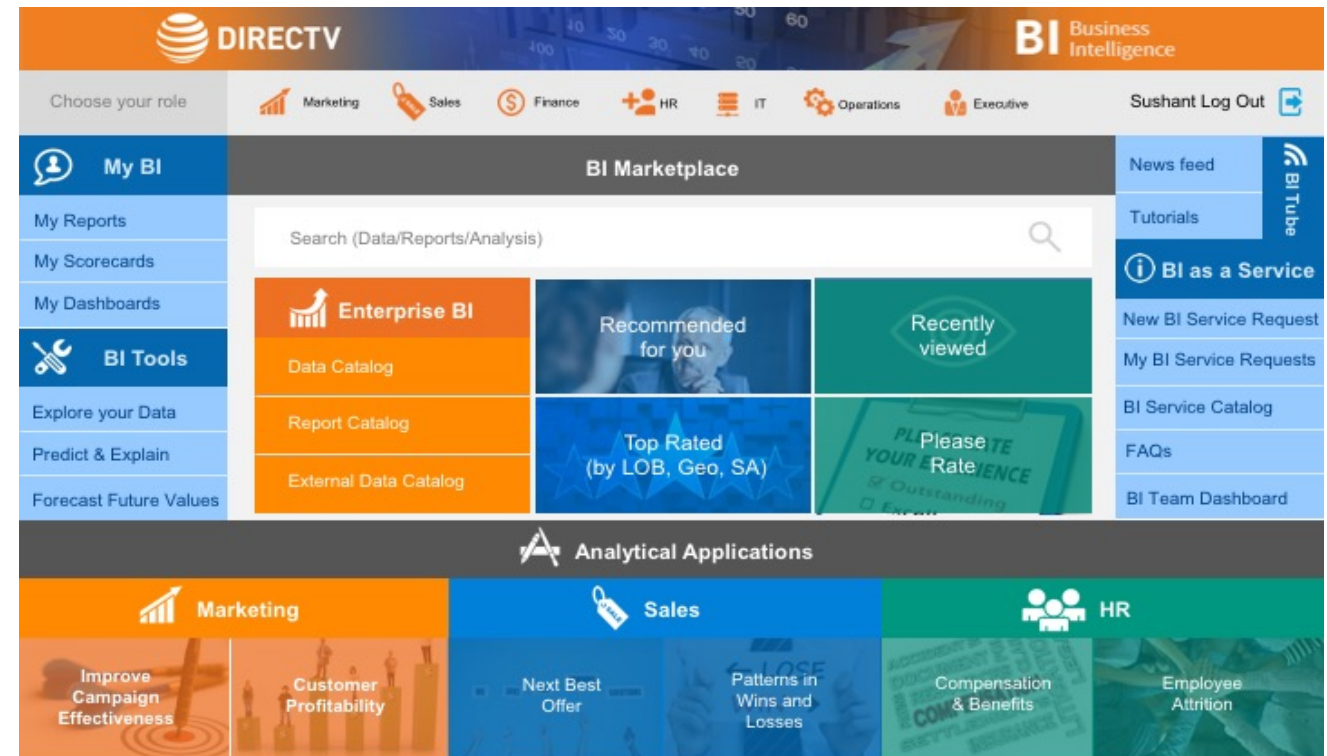
Korina H Lim

BI Hub Prototype



January 15, 2016 DIRECTV

IBM Confidential



January 15, 2016 DIRECTV

IBM Confidential

myBI Dashboard Wireframe | Redesign for UX wireframe

9/22/2016 Enterprise Search

myBI Settings

what+is+executive+dashboard

Sort

Author
ClientID
Created Date
Data Source
File Type
Folder
Modified Date
Object Type
Project

Result

Term: Report Base Product Definition: Report Base Product is a surrogate key that identifies the unique combination of base product components (ID) used to identify the lowest level (1) of reporting product.

Term: Report Base Product Group Definition: Report Base Product Group identifies a group of base products such as HSIA, VOICE, VIDEO etc. Upgrades and downgrades are identified by the ranking numbers assigned to each product within the group.

Term: Report Base Product Version Definition: Report Base Product Version includes the number of the version of the report base product, the status of the version, and the effective dates.

Term: Reporting Amount Definition: Reporting Amount is an alternate view of the dollar value associated with a journal entry. It represents the amount of a journal transaction as an increase/decrease.

Term: Reporting Base Element Type Definition: Reporting Base Element Type identifies how a base element is derived. A sequence number assigned to the rules used to derive the Alliance base reporting identifier.

Term: Reporting Base Geography Definition: Reporting Base Geography is a surrogate key that identifies a specific base level geography element in the hierarchy. It is used to identify the base geography across all the affiliates.

Term: Reporting Customer Segment Code (RCSC) Definition: The Reporting Customer Segment Code (RCSC) identifies the AT&T business unit translated from the 10-character SAARTSales Account Assignment and Results Tracking) segment value (for business accounts) for reporting revenue, volumes, and expense.

Term: Reporting Product Segment Code Definition: Reporting Product Segment Code identifies the business unit to which the product revenue and volume is attributed. It is derived based on the product.

Term: Report Month Definition: Report Month represents the financial reporting calendar month abbreviation.

Term: Report Quarter Definition: Report Quarter represents the financial reporting quarter. The calendar year is broken into four quarters for financial reporting. The attribute will identify which quarter a particular calendar day will be reported.

Term: executive, dashboard, contrl panel Definition: were not found in Business Glossary.

Title	Description	Author	Data Source	Last Modified Date	Actions
Total Company Dashboard	Provides Region, Region/Liability, Region/Channel, Region/Technology Type, Region/Device Manufacturer, Region/Device Brand and Region/Top 10 Device Churn Analysis	Administrator	MicroStrategy	Sep 9, 2016	☆ ⌵ ⌶ ⌵ ⌵ ⌵
Total Company Dashboard	Provides Region, Region/Liability, Region/Channel, Region/Technology Type, Region/Device Manufacturer, Region/Device Brand and Region/Top 10 Device Churn Analysis	Administrator	MicroStrategy	Sep 9, 2016	☆ ⌵ ⌵ ⌵ ⌵ ⌵
Total Company Dashboard	Provides Region, Region/Liability, Region/Channel, Region/Technology Type, Region/Device Manufacturer, Region/Device Brand and Region/Top 10 Device Churn Analysis	Administrator	MicroStrategy	Sep 9, 2016	☆ ⌵ ⌵ ⌵ ⌵ ⌵
BETA Total Company Dashboard	Provides Region, Region/Liability, Region/Channel, Region/Technology Type, Region/Device Manufacturer, Region/Device Brand and Region/Top 10 Device Churn Analysis	Administrator	MicroStrategy	Sep 9, 2016	☆ ⌵ ⌵ ⌵ ⌵ ⌵
BETA Total Company Dashboard 2	Provides Region, Region/Liability, Region/Channel, Region/Technology Type, Region/Device Manufacturer, Region/Device Brand and Region/Top 10 Device Churn Analysis	Administrator	MicroStrategy	Sep 9, 2016	☆ ⌵ ⌵ ⌵ ⌵ ⌵
BETA Total Company Dashboard 1	Provides Region, Region/Liability, Region/Channel, Region/Technology Type, Region/Device Manufacturer, Region/Device Brand and Region/Top 10 Device Churn Analysis	Administrator	MicroStrategy	Sep 9, 2016	☆ ⌵ ⌵ ⌵ ⌵ ⌵
BETA Total Company Dashboard	Provides Region, Region/Liability, Region/Channel, Region/Technology Type, Region/Device Manufacturer, Region/Device Brand and Region/Top 10 Device Churn Analysis	Administrator	MicroStrategy	Sep 9, 2016	☆ ⌵ ⌵ ⌵ ⌵ ⌵
BETA Total Company Dashboard	Provides Region, Region/Liability, Region/Channel, Region/Technology Type, Region/Device Manufacturer, Region/Device Brand and Region/Top 10 Device Churn Analysis	Administrator	MicroStrategy	Sep 9, 2016	☆ ⌵ ⌵ ⌵ ⌵ ⌵
Total Company Dashboard	Provides Region, Region/Liability, Region/Channel, Region/Technology Type, Region/Device Manufacturer, Region/Device Brand and Region/Top 10 Device Churn Analysis	Administrator	MicroStrategy	Sep 9, 2016	☆ ⌵ ⌵ ⌵ ⌵ ⌵

[http://zldk0664.vci.att.com:10039/wps/myportal/pov/tul/pla/04_S\\$C\\$Pykssy0xPLMnMz0vMAKjzOK9jFw9DYwDLzdDUMMDRxdAn3dghnDjE1MDIAKIEKD...](http://zldk0664.vci.att.com:10039/wps/myportal/pov/tul/pla/04_SCPykssy0xPLMnMz0vMAKjzOK9jFw9DYwDLzdDUMMDRxdAn3dghnDjE1MDIAKIEKD...) 1/2

9/22/2016 Enterprise Search

myBI Settings

what+is+executive+dashboard

Sort

Author
ClientID
Created Date
Data Source
File Type
Folder
Modified Date
Object Type
Project


Business Definition

Business Term	Business Definition
Report Base Product	Report Base Product is a surrogate key that identifies the unique combination of base product components (ID) used to identify the lowest level (1) of reporting product.
Report Base Product Group	Report Base Product Group identifies a group of base products such as HSIA, VOICE, VIDEO etc. Upgrades and downgrades are identified by the ranking numbers assigned to each product within the group.
Report Base Product Version	Report Base Product Version includes the number of the version of the report base product, the status of the version, and the effective dates.

Search Results

Title	Description	Author	Data Source	Last Modified Date	Actions
Total Company Dashboard	Provides Region, Region/Liability, Region/Channel, Region/Technology Type, Region/Device Manufacturer, Region/Device Brand and Region/Top 10 Device Churn Analysis	Administrator	MicroStrategy	Sep 9, 2016	☆ ⌵ ⌵ ⌵ ⌵ ⌵
Total Company Dashboard	Provides Region, Region/Liability, Region/Channel, Region/Technology Type, Region/Device Manufacturer, Region/Device Brand and Region/Top 10 Device Churn Analysis	Administrator	MicroStrategy	Sep 9, 2016	☆ ⌵ ⌵ ⌵ ⌵ ⌵
Total Company Dashboard	Provides Region, Region/Liability, Region/Channel, Region/Technology Type, Region/Device Manufacturer, Region/Device Brand and Region/Top 10 Device Churn Analysis	Administrator	MicroStrategy	Sep 9, 2016	☆ ⌵ ⌵ ⌵ ⌵ ⌵


BI FAQ Friday Newsletter (Selected) week Sep 30, 2016



Big Data Business Intelligence

Broadcast

This snapshot is for all BI team members from the BI Communications Team.



AT&T University

FAQ Topic of the Week: Complete LwD Virtual Leadership Summit Sessions

What is LwD?	LwD is Leading with Distinction.
Who should complete this?	All AT&T Employees are encouraged to complete this series to be aligned with our chairman's vision for AT&T.
Where do I go to view the sessions?	Go to this link to view all of the sessions.
How many sessions are in the series?	TBD (site can't be reached)
How long will it take to view all of the sessions?	TBD (site can't be reached).
How can I track my progress?	Go to LSO and view Learner Course Completion History.
What is the deadline to complete these sessions?	December 31, 2016.

Please read your email dated 9/20/16 or follow the steps in the [LwD Virtual Leadership Summit Sessions document](#) in tSpace.

BI Broadcast is your resource for BI news and information.

If you have feedback or questions, please click here to contact bi_broadcast@directv.com



Big Data Business Intelligence

Broadcast

This snapshot is for all BI team members from the BI Communications Team. September 26, 2016

FAQ TOPIC OF THE WEEK:
Complete LwD Virtual Leadership Summit Sessions

What is LwD?

LwD is Leading with Distinction.

Who should complete this?

All AT&T Employees are encouraged to complete this series to be aligned with our chairman's vision for AT&T.

Where do I go to view the sessions?

Go to [this link](#) to view all of the sessions.

How many sessions are in the series?

TBD (site can't be reached)

How long will it take to view all of the sessions?

TBD (site can't be reached)

How can I track my progress?

Go to LSO and view Learner Course Completion History.

What is the deadline to complete these sessions?

December 31, 2016.



AT&T University

Please read your email dated 9/20/16 or follow the steps in the LwD Virtual Leadership Summit Sessions document in tSpace.

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If you have feedback or questions, please click here to contact bi_broadcast@directv.com

BI FAQ Friday html 5 Newsletter (Selected) week Oct 7, 2016

Big Data Business Intelligence

Broadcast

If you are unable to read this, please open the PDF

October 7, 2016

This snapshot is for all BI team members from the BI Communications Team.

BIG DATA DIGITAL SIGNAGE

<h4>What?</h4> <ul style="list-style-type: none"> Information feed from Big Data Communications Team in Plano Replaces BI TV Types of Content: Announcements, Training, Employee Milestones, Events and more 	<h4>Who?</h4> <ul style="list-style-type: none"> Viewable by all Big Data Business Intelligence team members 	<h4>Where?</h4> <ul style="list-style-type: none"> El Segundo (phase 1) Denver – future phase Bangalore – future phase
<h4>When?</h4> <p>Week of October 17 – El Segundo Launch</p>	<h4>Why?</h4> <ul style="list-style-type: none"> Increased connection to Big Data organizations Centralized/consistent information across Big Data organization 	<h4>How to Submit Content?</h4> <ul style="list-style-type: none"> Send an email with your content to Jax Sargent

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If you have feedback or questions, please click here to contact bi_broadcast@directv.com

Big Data Business Intelligence

Broadcast

If you are unable to read this, please open the PDF

October 7, 2016

This snapshot is for all BI team members from the BI Communications Team.

BIG DATA DIGITAL SIGNAGE

<h4>What?</h4> <ul style="list-style-type: none"> Information feed from Big Data Communications Team in Plano Replaces BI TV Types of Content: Announcements, Training, Employee Milestones, Events and more 	<h4>Who?</h4> <ul style="list-style-type: none"> Viewable by all Big Data Business Intelligence team members 	<h4>Why?</h4> <ul style="list-style-type: none"> Increased connection to Big Data organizations Centralized/consistent information across Big Data organization
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BI FAQ Friday html 5 Newsletter (Selected) week Oct 26, 2016

BI FAQ Friday html 5 Newsletter (Selected) week Nov 1, 2016

Big Data Business Intelligence

Broadcast

If you are unable to read this, please open the PDF

This snapshot is for all BI team members from the BI Communications Team. October 26, 2016

FAQ TOPIC OF THE WEEK:

LwD Virtual Leadership Summit Sessions

Who

All AT&T Employees are encouraged to complete this series.

What

- LwD Virtual Leadership Summit Sessions (video series)
- Total time investment is 8.75 hours (1 kick-off session, 6 keynote sessions and 3 workshops)

Where

Go to [this link](#) to view all of the sessions.

When

Before December 31, 2016

Why

For employees to be aligned with our chairman's vision for AT&T.

How

Track Progress. Go to this link at [LSQ](#).

Please read your email dated 9/20/16 or follow the steps in the [LwD Virtual Leadership Summit Sessions](#) document in ISpace.

BI Broadcast is your resource for BI news and information.
If you have feedback or questions, please click here to contact [BI Broadcast ATT](#)

Big Data Business Intelligence

Broadcast

If you are unable to read this, please open the PDF

This snapshot is for all BI team members from the BI Communications Team. November 1, 2016

FAQ TOPIC OF THE WEEK:

Extraordinary Leader Model

Who

All AT&T Employees.

What

The leadership characteristics we all need to demonstrate to drive business performance and make AT&T a great place to work!

Where

You can view the Extraordinary Leader Model at this [link](#).

When

Any time you want to work on your leadership path.

Why

Everyone is a leader.

How

- [Review the ELM.](#)
- [Build strengths.](#)
- [Assess Skills & take the 360 Survey.](#)
- [Get a 360 Coach.](#)
- [Take action with resources.](#)

BI Broadcast is your resource for BI news and information.
If you have feedback or questions, please click here to contact [BI Broadcast ATT](#)

BI FAQ Friday html 5 Newsletter (Selected) week Nov 11, 2016

Big Data Business Intelligence

Broadcast

If you are unable to read this, please open the PDF

This snapshot is for all BI team members from the BI Communications Team. November 11, 2016

FAQ TOPIC OF THE WEEK:

Required Trainings

Who

- All AT&T Employees

What

- AT&T: Compliance Training
- Big Data: Innovation Series (5 sessions)

Where

- Personal Learning Portal

PLP

When

- COMPLIANCE: Continuously throughout the year. Even if you reach 100% on a given day, more trainings are added throughout the year. Check your PLP often to ensure you are current.
- INNOVATION: Complete all sessions by December 9, 2016.

Why

- COMPLIANCE: To ensure AT&T meets legal/regulatory requirements for employee training and awareness.
- INNOVATION: To improve your ability to innovate and to lead a culture of innovation within Big Data and AT&T

How

- Visit your [Personal Learning Portal](#) page.
- COMPLIANCE: Click on the "My Compliance" icon to view your current list of trainings.

My Compliance

- INNOVATION: Type "innovation series module" in the search area to see the full list of modules.

BI Broadcast is your resource for BI news and information.
If you have feedback or questions, please click here to contact [BI Broadcast ATT](#)

BI FAQ Friday html 5 Newsletter (Selected) week Nov 14, 2016

Big Data Business Intelligence

Broadcast

If you are unable to read this, please open the PDF

This snapshot is for all BI team members from the BI Communications Team. November 18, 2016

FAQ TOPIC OF THE WEEK:

AT&T Asset Library

Who

- All BI team members.

What

- Resource to access images/graphics to enhance your presentations/documentation.

Where

- Go to the [AT&T Asset Library](#)

When

- Anytime you need to obtain an image or video for your materials.


Why

- Leverage company approved/vetted photos, images and more. No need to pull "unauthorized" images from the internet.

BI Broadcast is your resource for BI news and information.
If you have feedback or questions, please click here to contact [BI Broadcast ATT](#)

BI FAQ Friday html 5 Newsletter (Selected) week Dec 6, 2016

BI FAQ Friday html 5 Newsletter (Selected) week Nov 14, 2016



Big Data Business Intelligence

Broadcast

If you are unable to read this, please open the PDF

This snapshot is for all BI team members from the BI Communications Team. December 6, 2016


Phase 1 Assessment, Online Test Web Vulnerabilities

Concepts Overview

Design & Development Developer & Test Tools


FAQ TOPIC OF THE WEEK:
Bronze Security Certification

Security First
SF
bronze



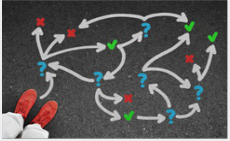
Who

- All BI team members.




What

- Bronze Security Certification (5 courses & 1 assessment)
[\(Click Here\)](#)




Where

- LSO # 61273100
[\(Click Here\)](#)



When

- December 31, 2016 deadline (finish on 12/29 as that is the last working day of 2016)



Why

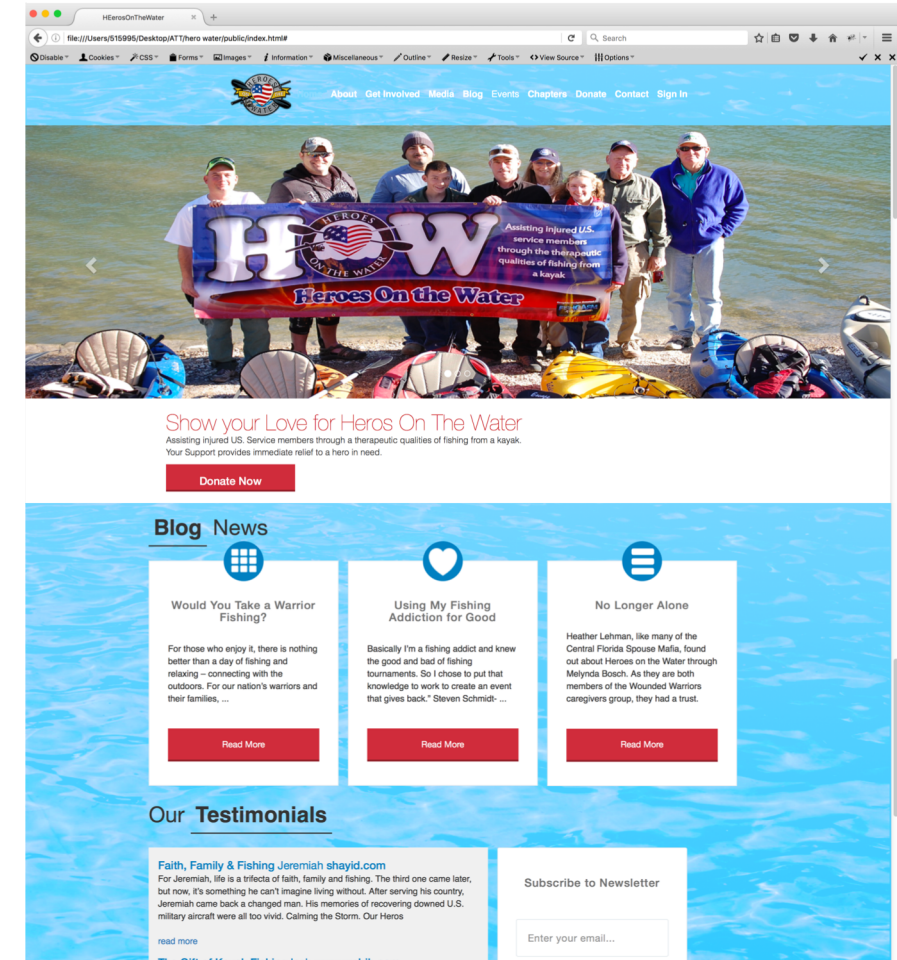
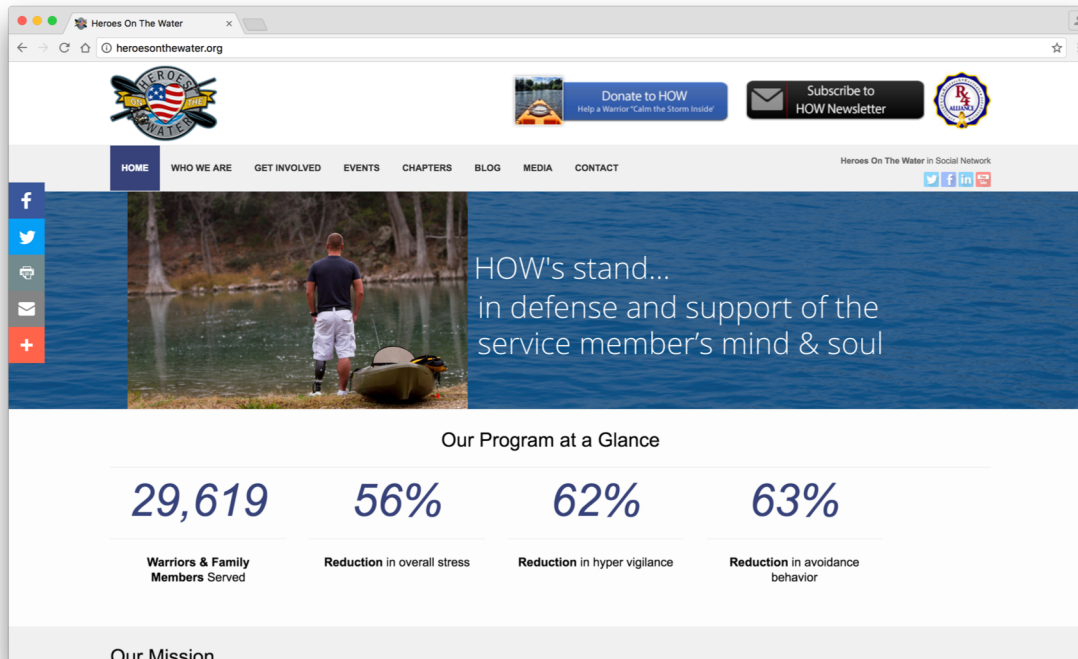
- This is a training requirement for all Big Data employees.

BI Broadcast is your resource for BI news and information.
If you have feedback or questions, please click here to contact [BI Broadcast ATT](#)

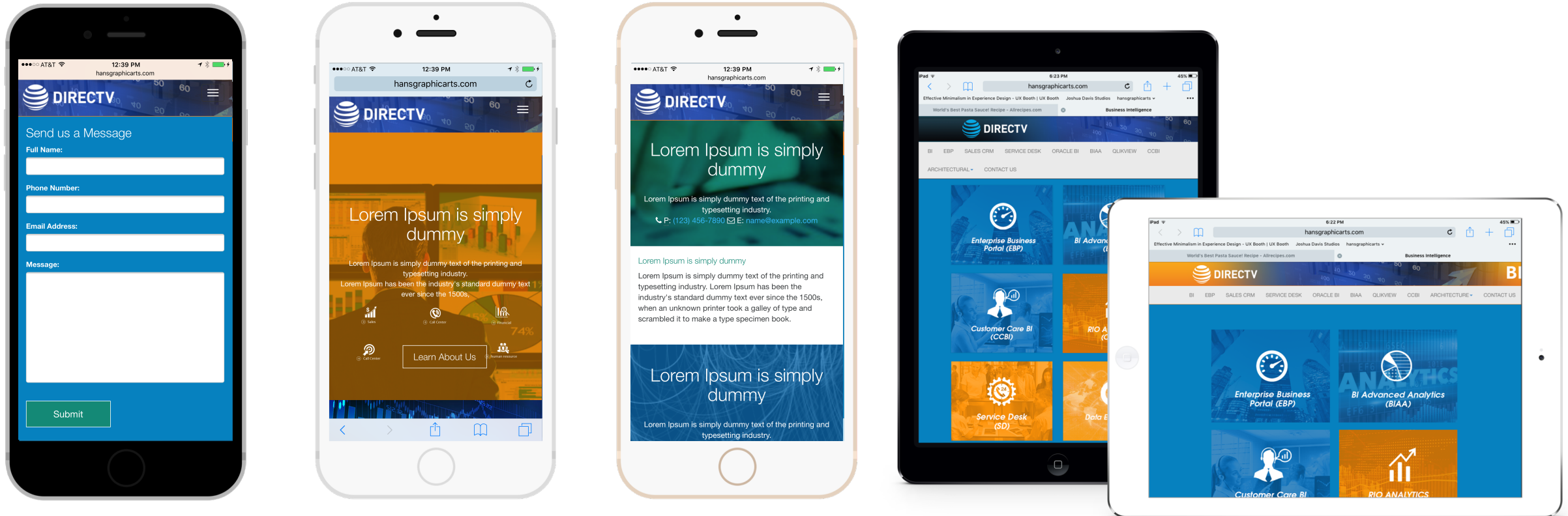
Interaction Design (web design)

- Hero of water working with intern redesign site
- BI Website Design

Hero of water working with intern redesign site



BI Website Design: Mobile / Tablet



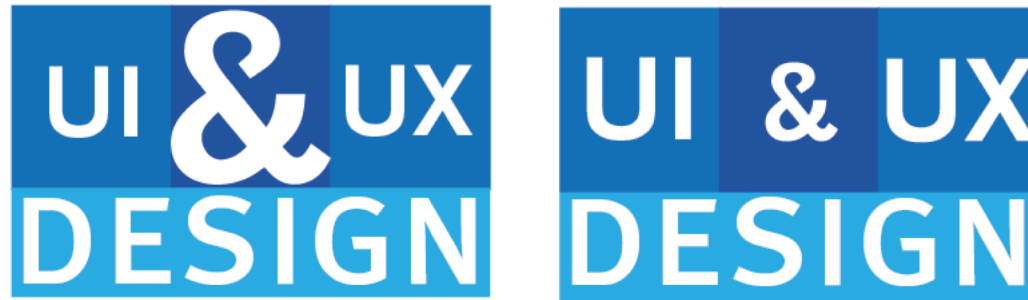
Logos

- **BlaaS logos**
- **BI Tools Center of Excellence logo**
- **BI Innovation , Strategy and Architecture logo**

BI Website Design: Mobile / Tablet



BI Website Design: Mobile / Tablet



BI Website Design: Mobile / Tablet



Visual Design / Interaction / Front-End development

- tSpace UI/UX design redesign
- tSpace BI Tools Center of Excellence communities redesign
- BI Big Data hub tSpace Wiki redesign

BI Big Data hub tSpace Wiki redesign (BI hub icons)



[illegible]

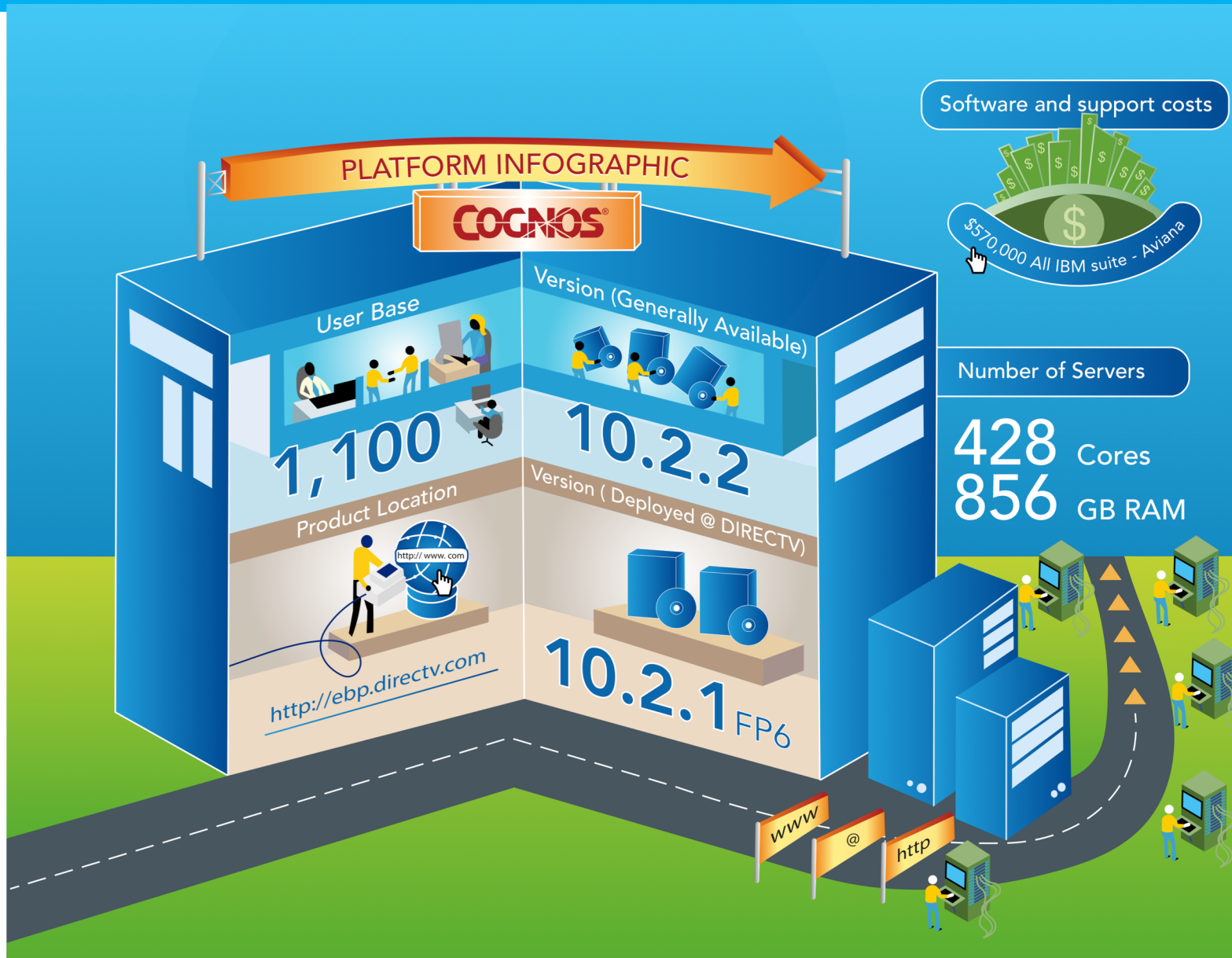
Infographics ,UI Research, Architecture Diagrams

- BI Functional Org Slide
- Cognos-MSTR Process Flow
- Business Model Canvasb Clean
- Synergy Program - EBP Cognos Metadata
- BlaaS UserExperience Workflows

Townhall info graphics



Townhall info graphics

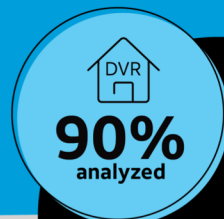


Townhall info graphics



DVR Recording Patterns & Opportunities

Analytics to understand user recording behavior and discovering opportunities for remerchandising and retargeting.
Dataset - (May ~ July, 2017)



Over **90% of DVR analyzed** are at least **80% full** with the **majority** of content already watched



On average, **75% of viewers watch their recorded content within a week**



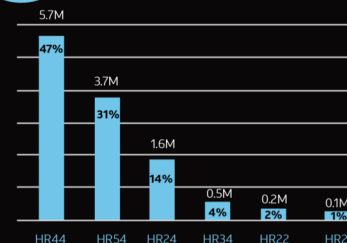
Genre has a strong effect on how soon and how often recorded content are consumed



Opportunity to predict recordings, re-surface unwatched recording & motivate re-watch



Distributions of Connected DVR Boxes



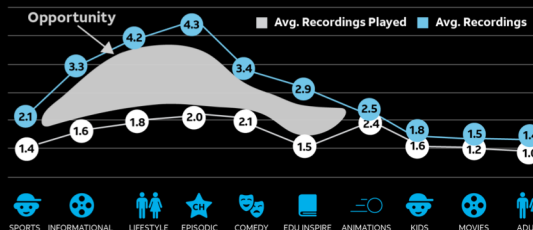
75%

75% of viewers have played content they recorded in the last **3 days**.

30%

30% of recorded content does not get watched within one week.

Opportunity to Close Gap by Resurfacing Content Recorded but Unwatched



Avg. Number of days gap from recording to first play.



Movies take average of 1 week to watch after recording. Episodic has more urgency to watch than movies

... help users re-discover recorded content and auto-manage their DVR storage space!

REC

RECORDING:
if a user records **COMEDY & GAMES** as well as **EDU-INSPIRE** content, there is a 95% CONFIDENCE they will record an **EPISODIC DRAMA** within a week.



REMERCHANDISING:
if a user records **EPISODIC DRAMA** as well as **EDU-INSPIRE** content, there is a 90% CONFIDENCE they will watch a **LIFESTYLE AND ENTERTAINMENT** remerchandised recording within a week.



REWATCHING:
if a user records **NEWS & INFORMATIONAL** content, there is a 70% CONFIDENCE they will re-watch a **LIFESTYLE AND ENTERTAINMENT** recording within a week

"Crowdsourcing"

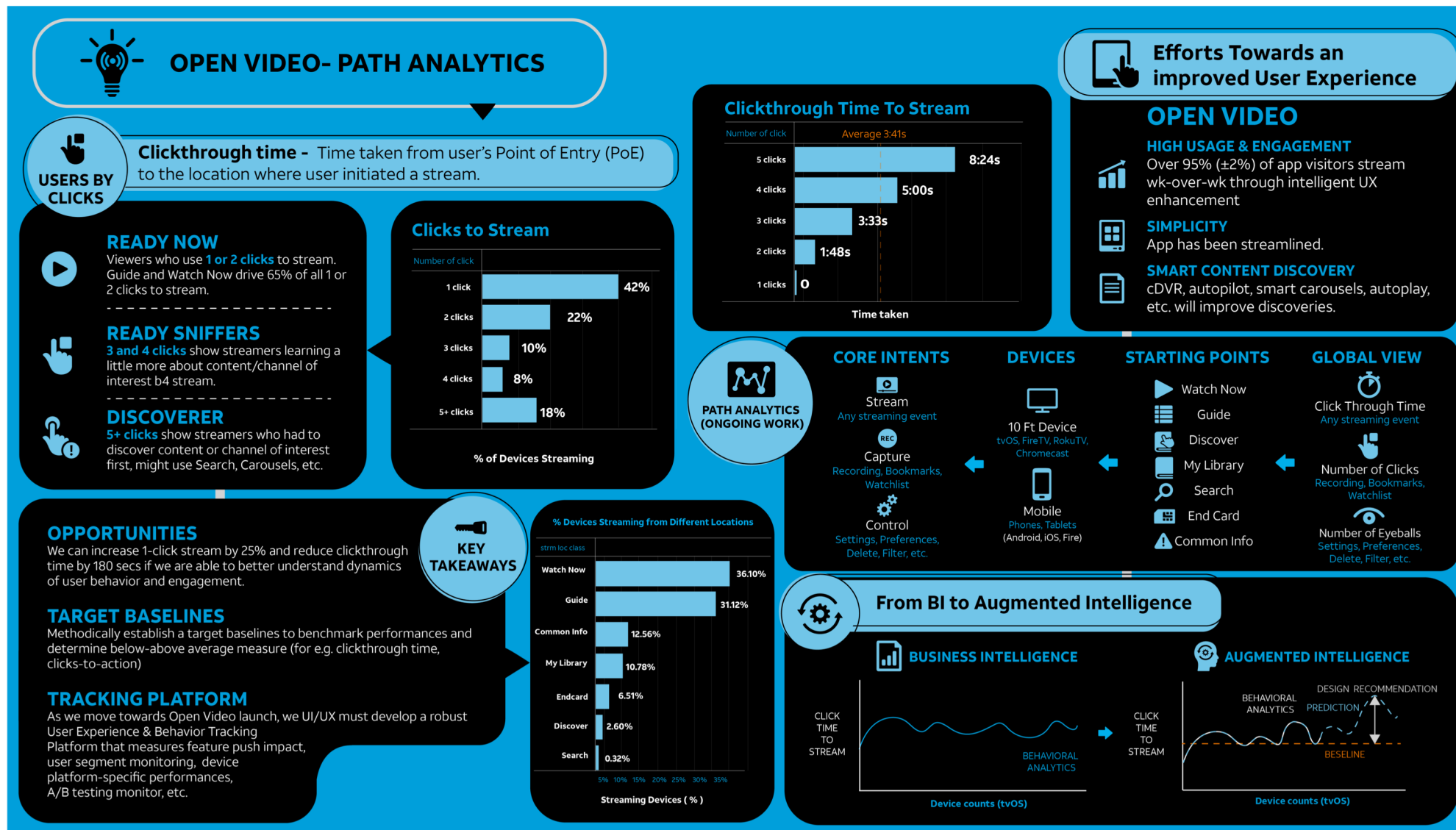
MBA allow us to understand and extract different combination of content that users frequently watch, record or rewatch together weekly on their DVR with high confidence (90%+).

The Predictions can help narrow down the recommendations rather than random content presentation.
Help in streamlining content when creating profile for new users without engagement history.



Market Basket Analysis

Townhall info graphics



Efforts Towards an improved User Experience

OPEN VIDEO



HIGH USAGE & ENGAGEMENT

Over 95% ($\pm 2\%$) of app visitors stream wk-over-wk through intelligent UX enhancement



SIMPLICITY


App has been streamlined.



SMART CONTENT DISCOVERY


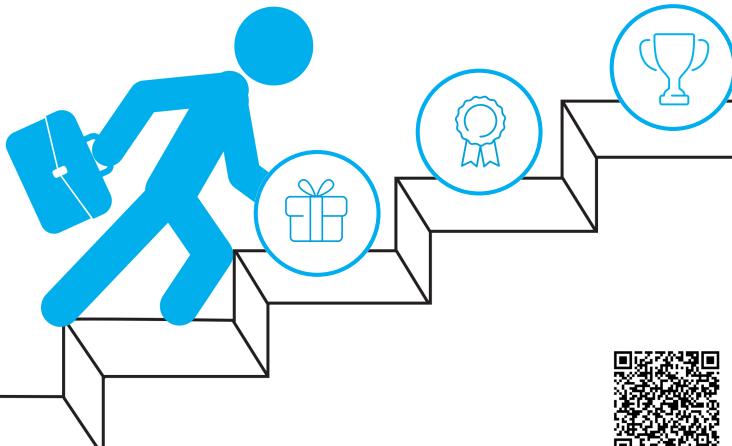
cDVR, autopilot, smart carousels, autoplay, etc. will improve discoveries.

Townhall info graphics



**EL SEGUNDO BI CULTURAL TRANSFORMATION TEAM PRESENTS
THE STAIRCASE CHALLENGE FOR 2018**

*A gift card is awaiting for the 1st and 2nd place winners each quarter!
There will be QR Codes posted on the 2nd and 11th floor of the East and West stairwells.
Please install a QR Code Reader on your phone.
You will need to scan and enter your numbers into our tracking application online.
An overall winner will be awarded for the year!*



Happy New Year
Indian harvest festival
“Sankranti (Pongal)”
and Chinese New Year
Potluck with traditional food



EL SEGUNDO BI CULTURAL
TRANSFORMATION TEAM PRESENTS

Thur JAN 25 11:30 AM
to 1:30 PM

11th floor kitchen,
LA2/1102
conference room

Townhall info graphics


FEB 7, 2018 - MAR 31, 2018
EL SEGUNDO BI CULTURAL TRANSFORMATION TEAM PRESENTS
 Supporting Ronald McDonald House Charities of Southern California

CHARITY DRIVE


Donate any item specified in the Ronald MacDonald House wishlist



Donation drop boxes will be made available on the 11 floor and Cash Donations can be given to any of the Change-nators



 Ronald McDonald House
 LOS ANGELES


 ALLURI, SAROJA | va3297@att.com
 STELLA TSOI | st3723@att.com
 ZINKI MONGA | zm568u@att.com



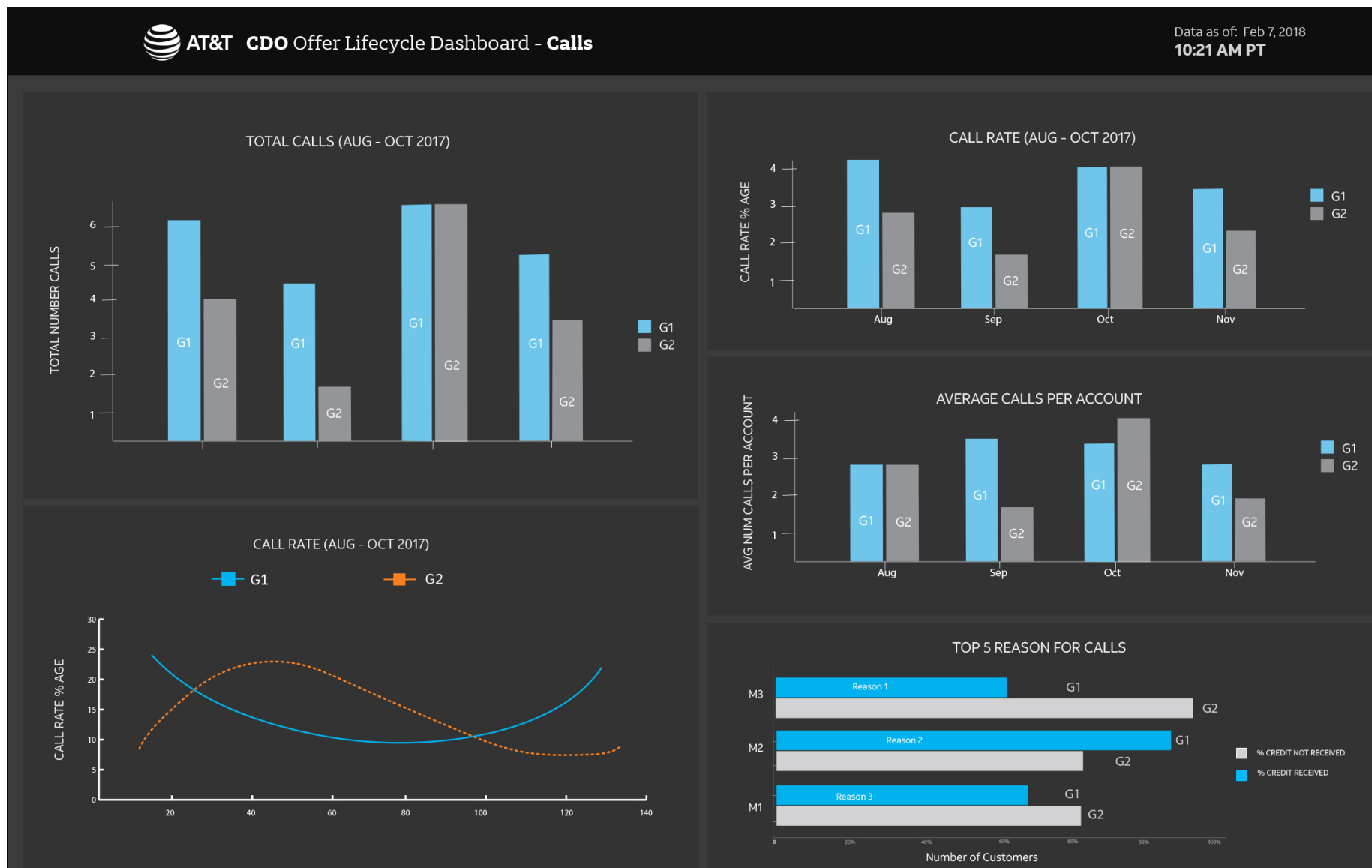
Moon Cake Festival
 Lantern Festival (Harvest festival)

Rosh Hashanah
 Jewish New Year Festival

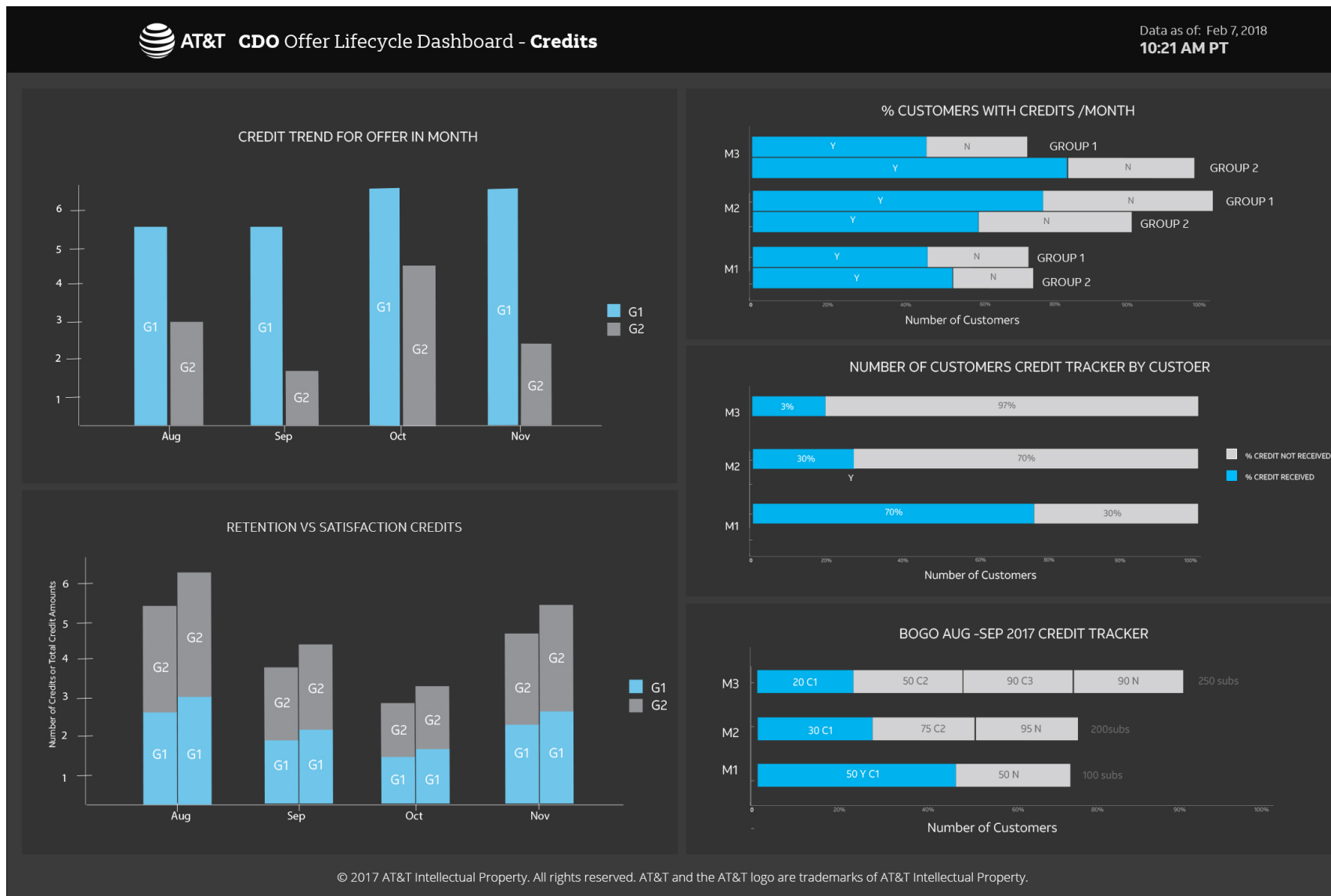
Ganesh Chaturthi
 Beginning of festive season

Date: September 13th, 11.30 to 1.30
 Location: 11th floor kitchen, and LA2/1102 conference room
 Potluck

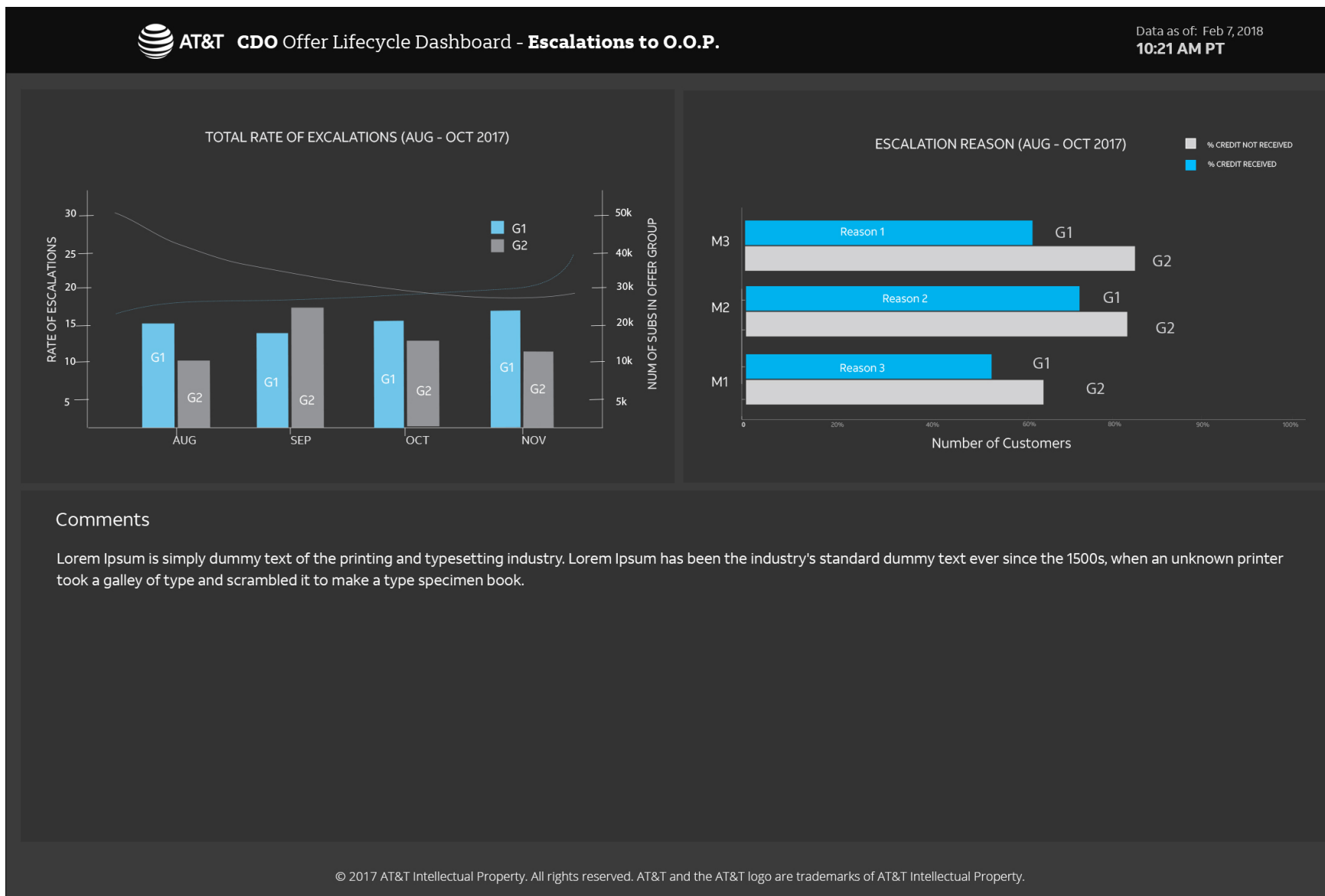
Townhall info graphics



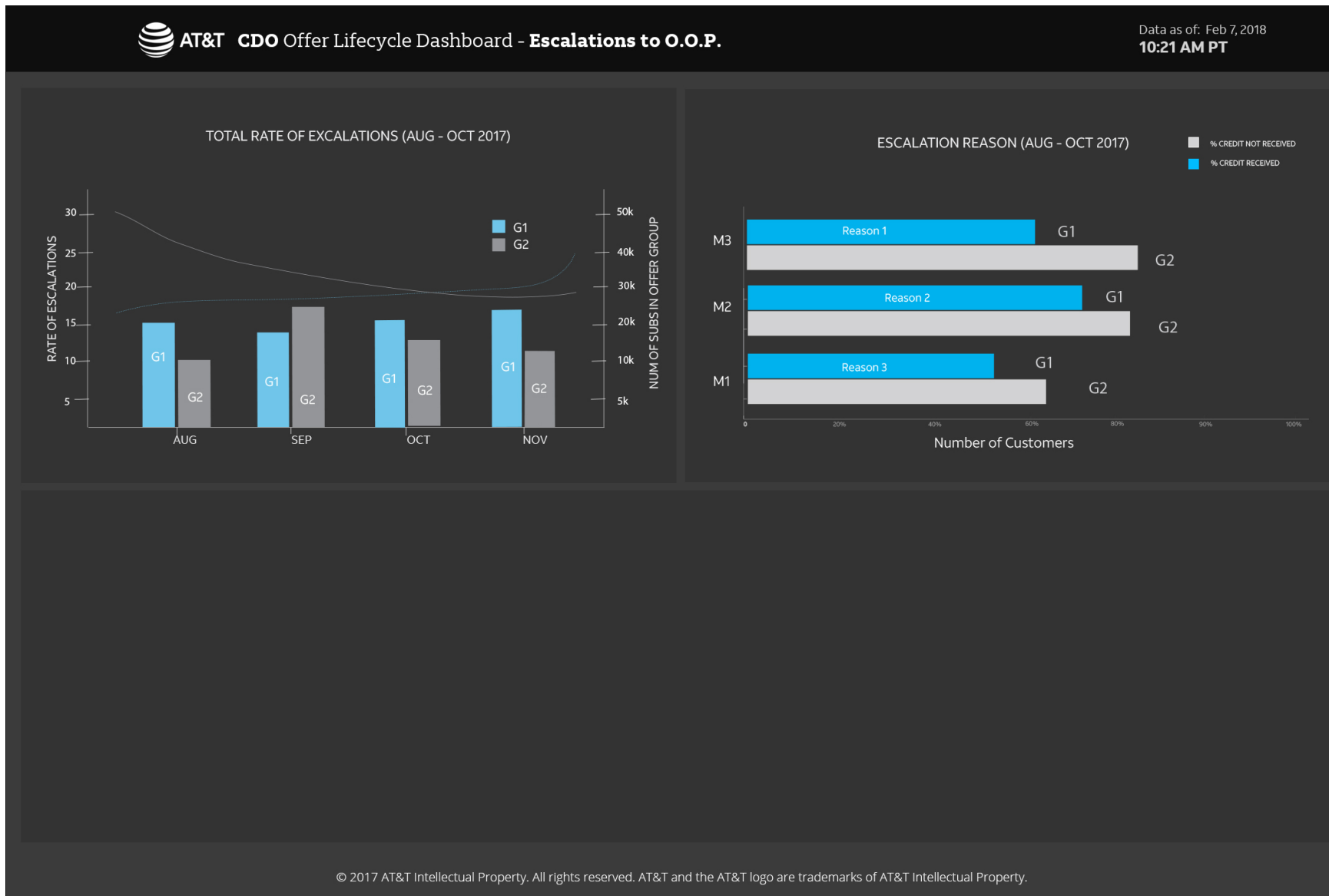
Townhall info graphics



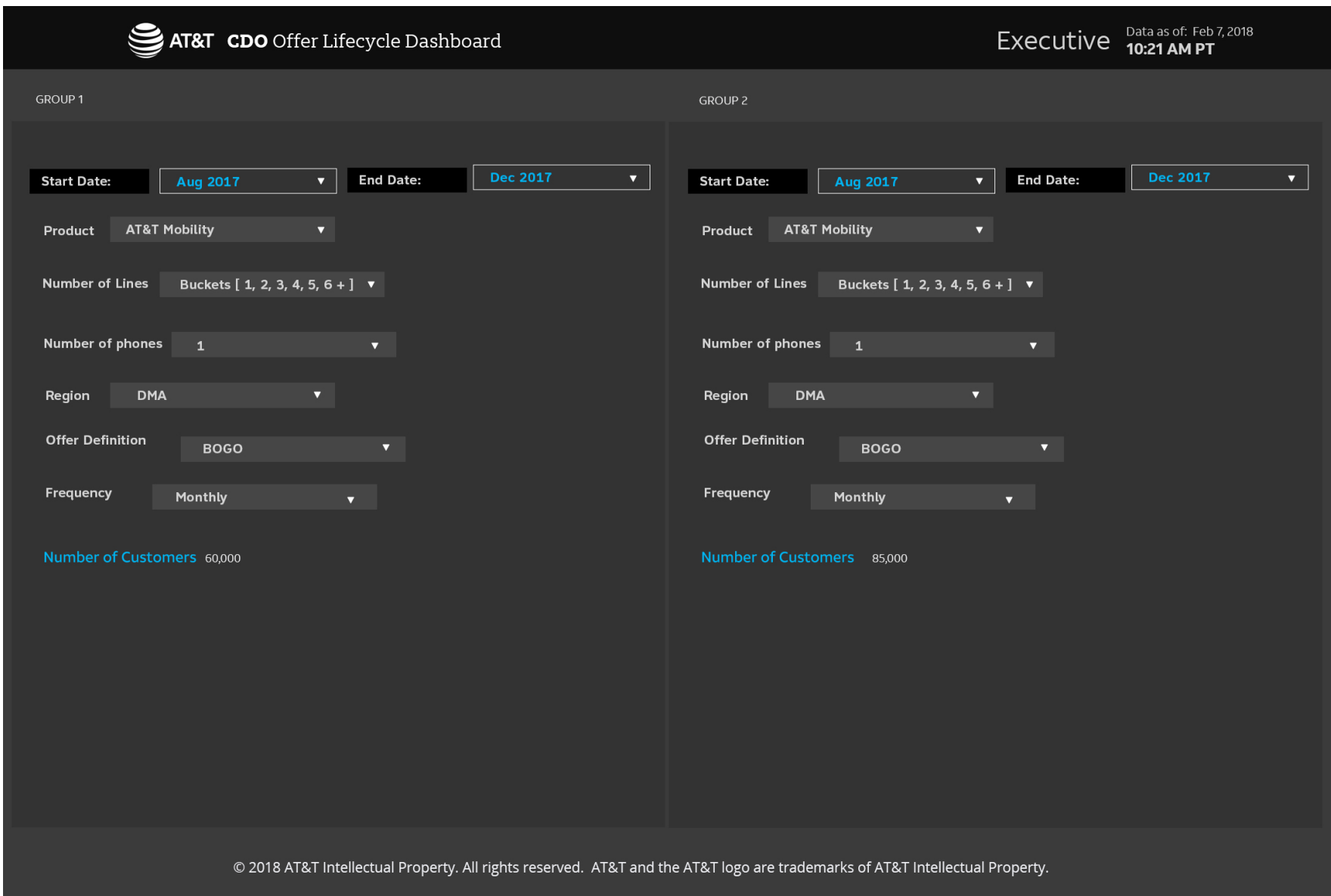
Townhall info graphics



Townhall info graphics



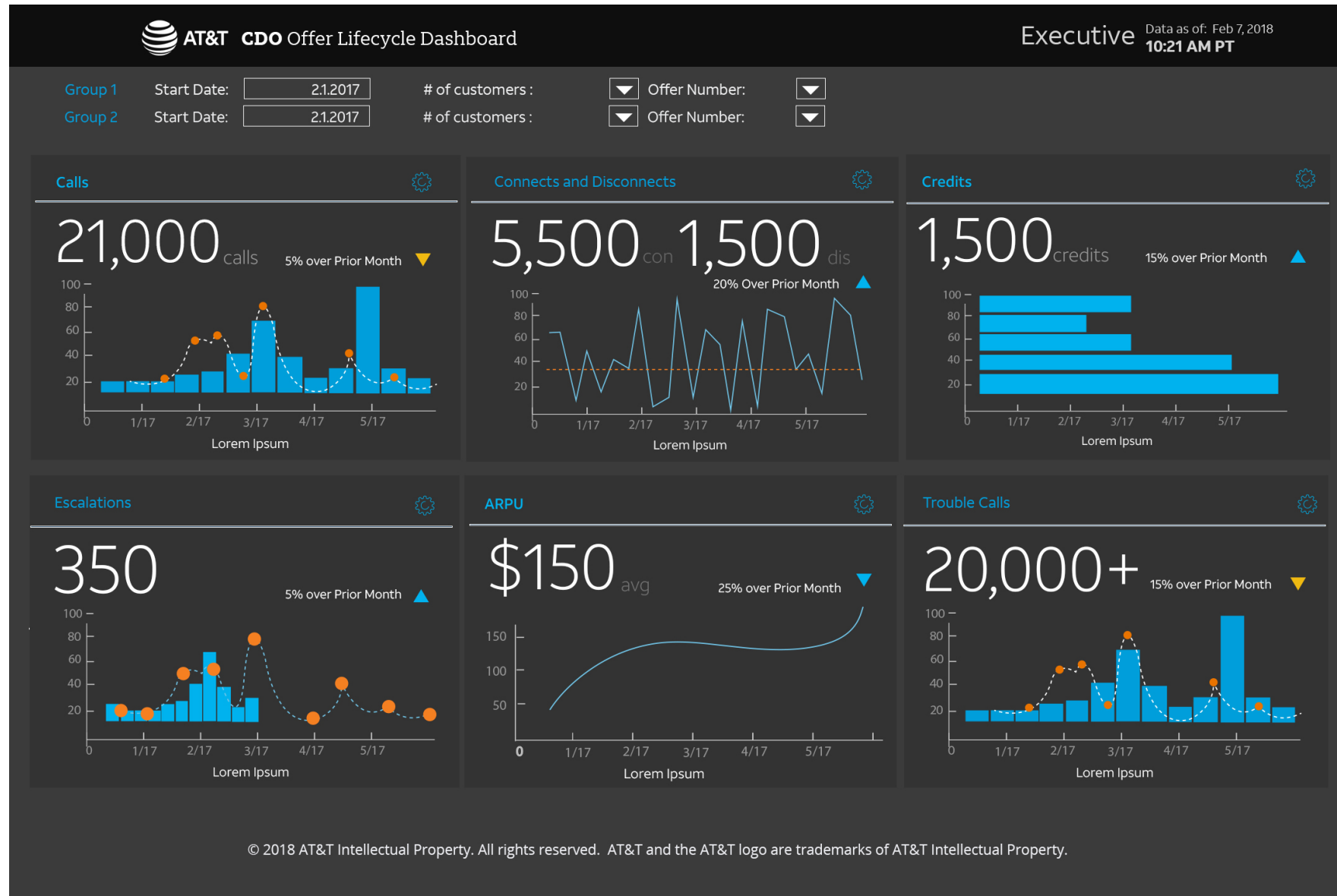
Townhall info graphics



Townhall info graphics



Townhall info graphics



Townhall info graphics

AT&T

Weekly Automated vs Manual Offers Comparison Report

PROMO ID

Year

2018

Month

(ALL)

201808

201807

Reporting Period

Start Date

06/03/2018

12:18:45

End Date

07/03/2018

12:18:45

Sales Channel

(ALL)

DR-RETAIL

All Other

IP-AUTHORIZED RETAIL

Digital

Unknown Channel

BUSINESS RULES:

Automated: Opus Enabled Channels

Expected Manual: Non-Opus Enabled Channels

DATA SOURCE:

CDO BI QuickStrike

DISCLAIMER:

Aggregated data subject to change from week to week due to figure restatement.

SALES CHANNEL

TOTAL

AUTOMATED

MANUAL

EXPECTED MANUAL

UNEXPECTED MANUAL

AUTO RATE

MANUAL RATE

ADJUSTED AUTOMATABLE RATE

DR-RETAIL

111,806

111,806

0

0

0

100%

0

100%

ALL OTHER

55,458

46,057

9,401

9,401

0

83.05%

16.95%

83.05%

IP-AUTHORIZED RETAIL

39,628

39,628

0

0

0

100%

0

100%

DIGITAL

3,121

1,803

1,318

1,318

0

57.77%

42.23%

57.77%

UNKNOWN CHANNEL

1,377

0

1,317

0

1,377

0%

100.00%

100%

Total

211,390

199,294

12,096

10,719

1,377

94.28%

5.72%

94.93%

BUSINESS RULES:

Automated: Opus Enabled Channels

Expected Manual: Non-Opus Enabled Channels

DATA SOURCE:

CDO BI QuickStrike

DISCLAIMER:

Aggregated data subject to change from week to week due to figure restatement.

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Townhall info graphics

Weekly Automated vs Manual Offers Comparison Report

PROMO ID	Promo Performance Comparison: Promo 94 vs 97					Promo Comparison: Promo 94 vs 97
Weeks	PROMO ID	AUTOMATED	EXPECTED MANUAL (Non -Opus Channels)	EXPECTED MANUAL (WITH DOWNPAYMENT)	UNEXPECTED MANUAL	TOTAL
<input checked="" type="checkbox"/> (ALL) <input checked="" type="checkbox"/> 7/29/2018 <input checked="" type="checkbox"/> 8/12/2018	Promo 94	249,653	18,601	4,507	102,744	375,505
	Promo 97	39,045	1,535	71	3,850	44,501
Years <input checked="" type="checkbox"/> (ALL) <input checked="" type="checkbox"/> 201808 <input checked="" type="checkbox"/> 201707						
Reporting Period Start Date: 06/03/2018 12:18:45 End Date: 07/03/2018 12:18:45						
Sales Channel <input checked="" type="checkbox"/> (ALL) <input checked="" type="checkbox"/> DR-RETAIL <input checked="" type="checkbox"/> All Other <input checked="" type="checkbox"/> IP-AUTHORIZED RETAIL <input checked="" type="checkbox"/> Digital <input checked="" type="checkbox"/> Unknown Channel						

Promo Comparison: Promo 94 vs 97

Promo	Automated	Expected Manual	Unexpected Manual	Total
94	249,653	18,601	71	375,505
97	39,045	1,535	71	44,501

Promo Comparison: Promo 94 vs 97

Promo	Automated (%)	Expected Manual (%)	Unexpected Manual (%)	Total (%)
94	66.48%	4.95%	1.20%	27.20%
97	87.74%	3.45%	0.16%	8.65%

BUSINESS RULES:

Automated: Opus Enabled Channels
Expected Manual: Non-Opus Enabled Channels

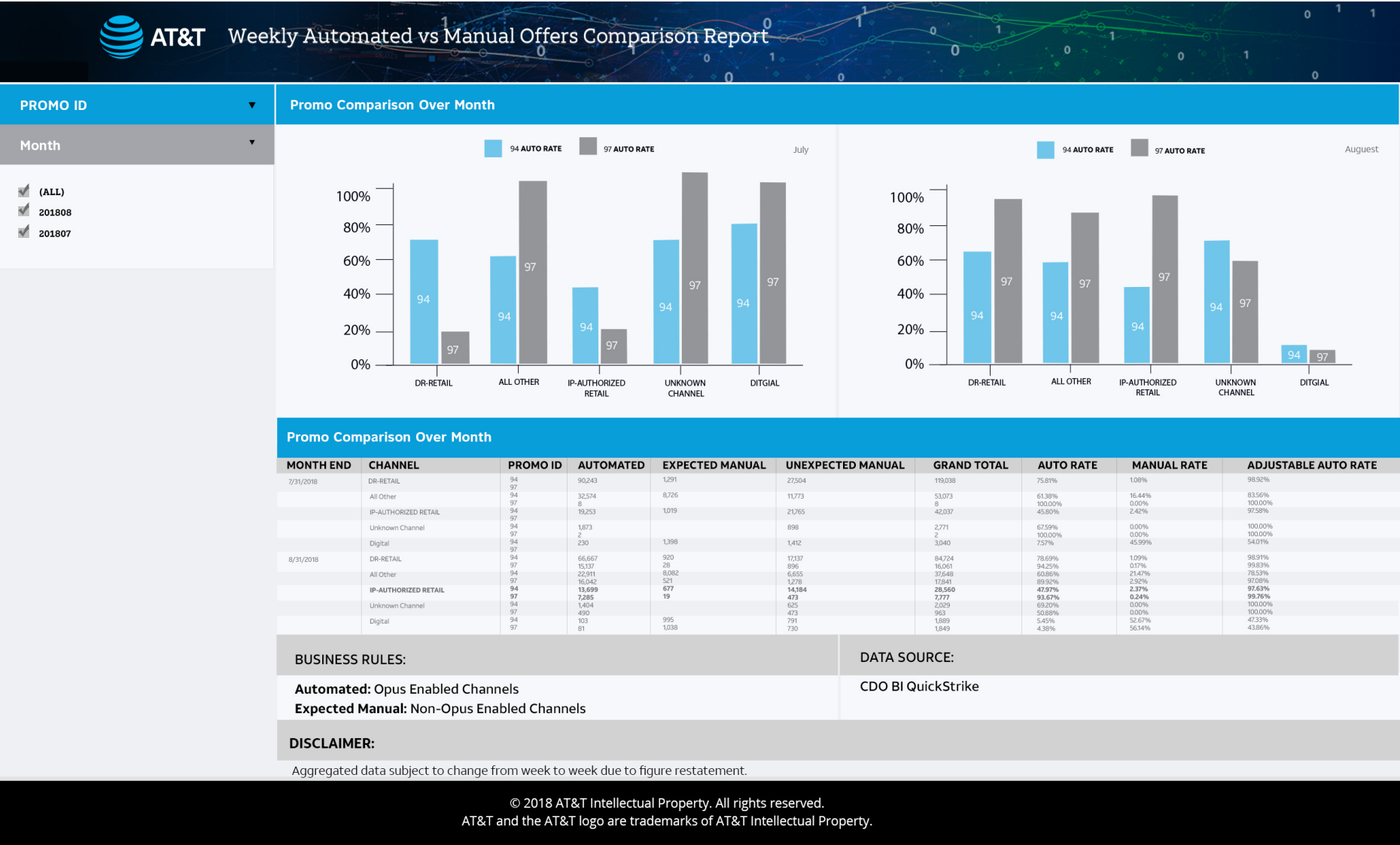
DISCLAIMER:

Aggregated data subject to change from week to week due to figure restatement.

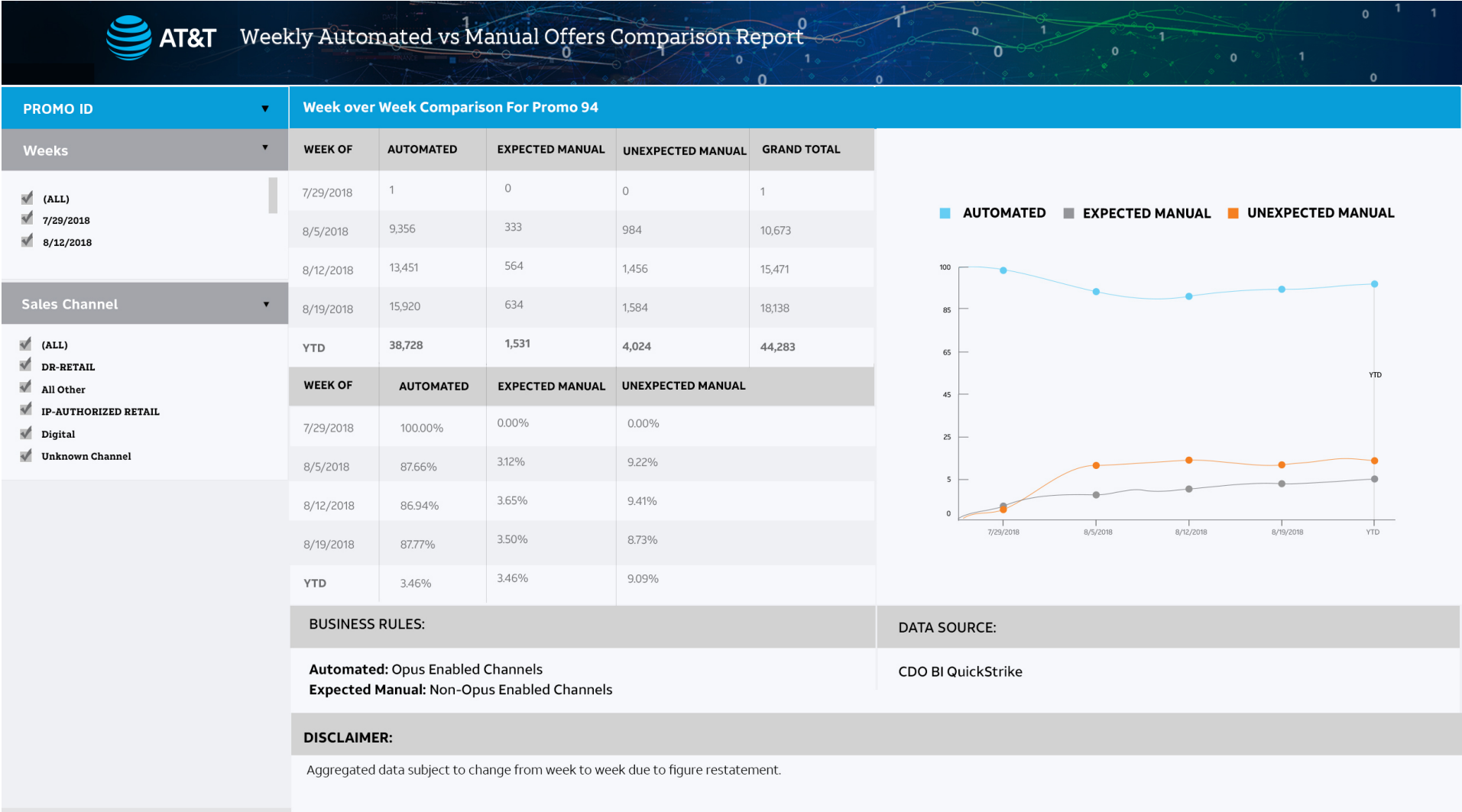
DATA SOURCE:

CDO BI QuickStrike

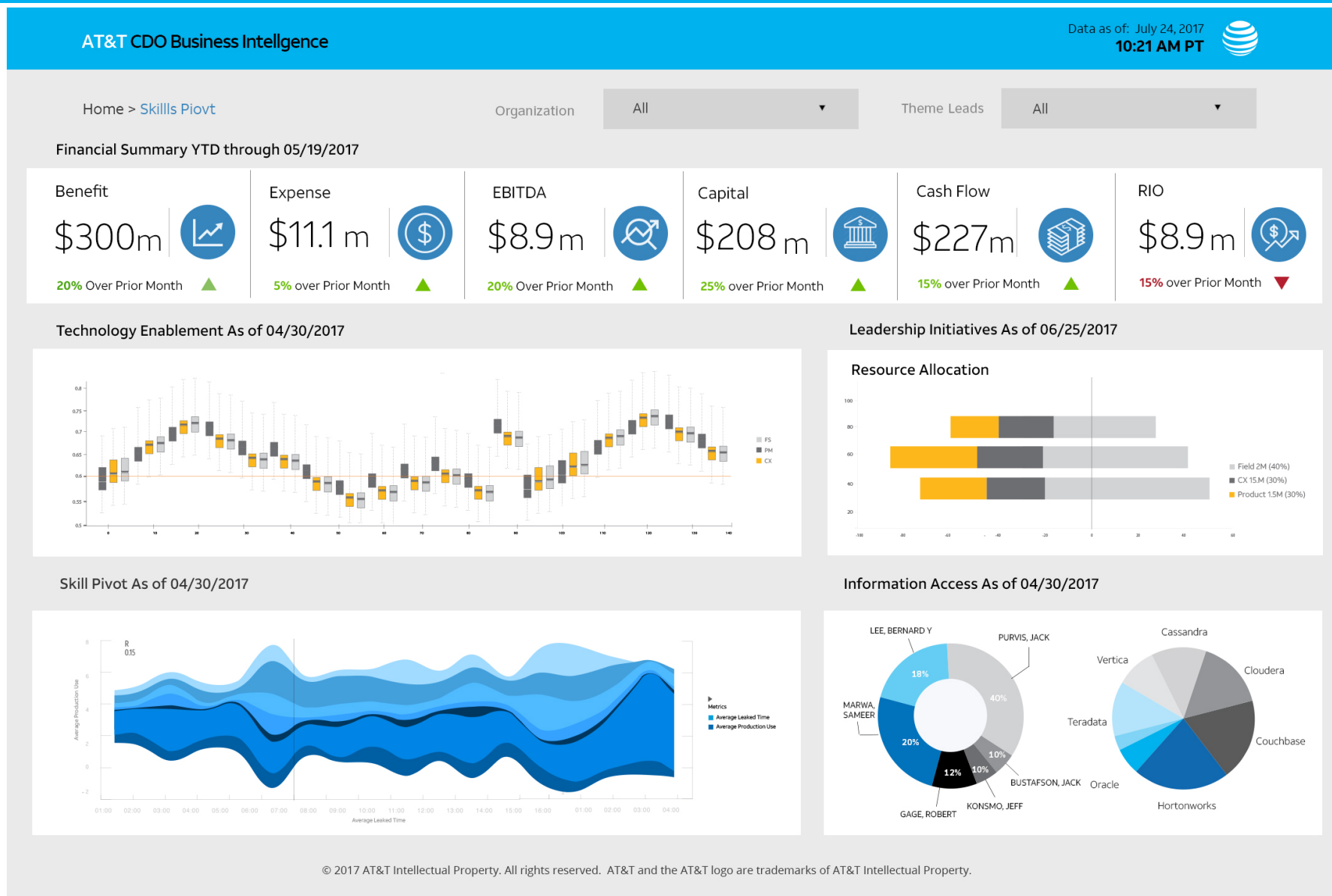
Townhall info graphics



Townhall info graphics

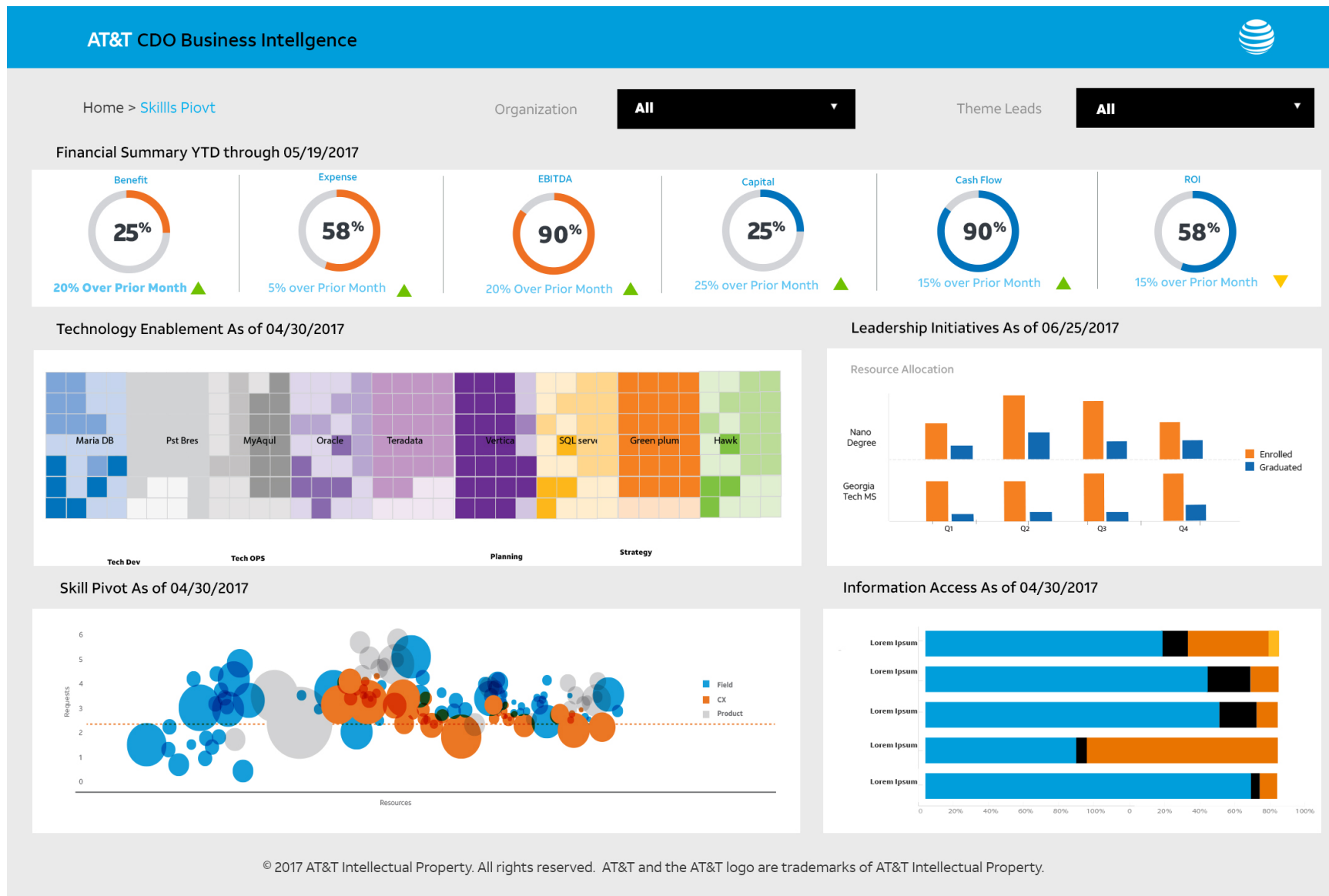


Townhall info graphics

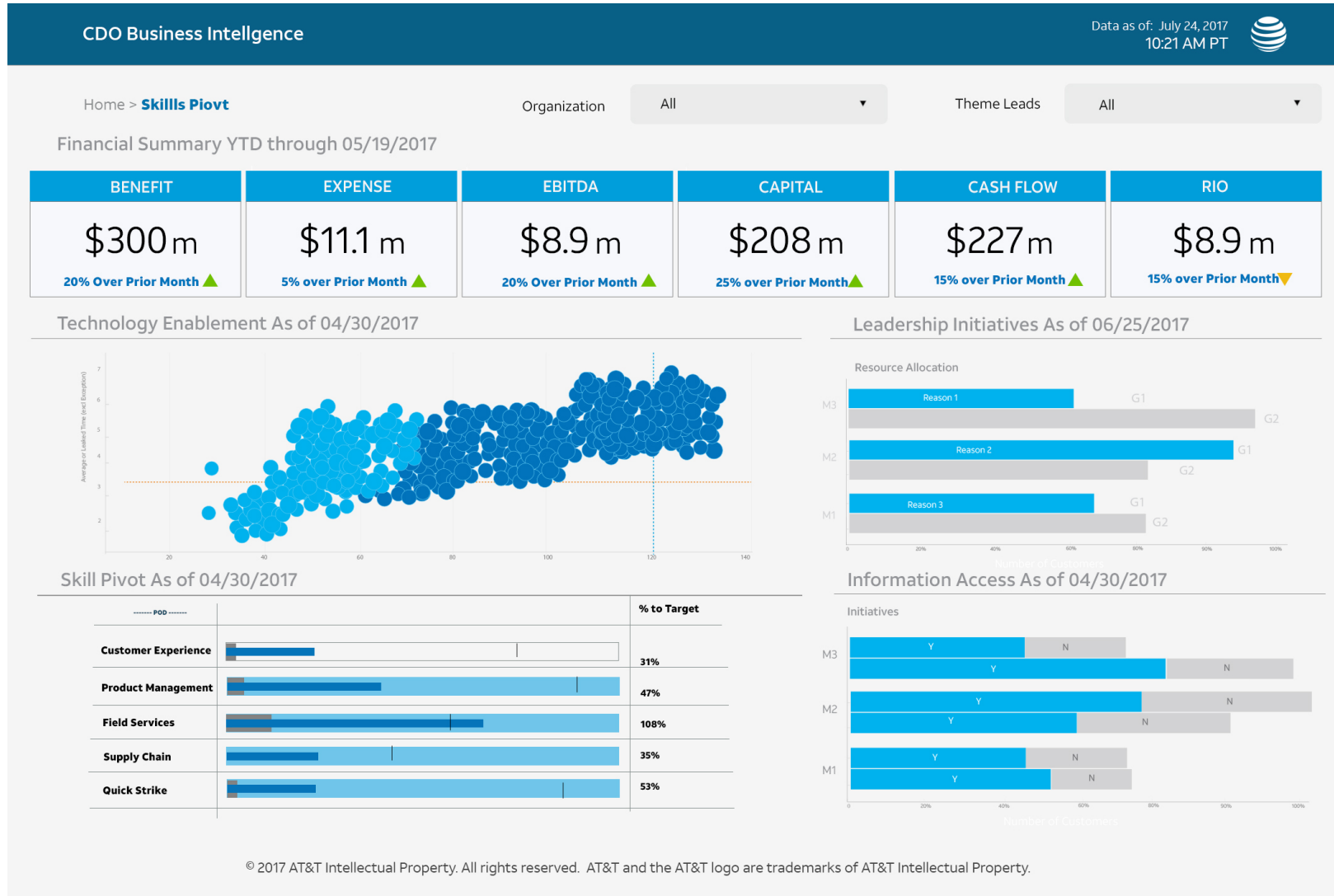




Townhall info graphics



Townhall info graphics



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