



AI – Helping Marketers be personal at scale



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ORACLE

wednesday
relations

Marketer's dilemma



Who is the Audience?



What is the customer Journey?



How do I create Omni-channel experience?



What is the message?

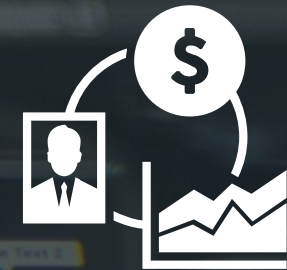


9%

Behavioral data used



What is the best time?

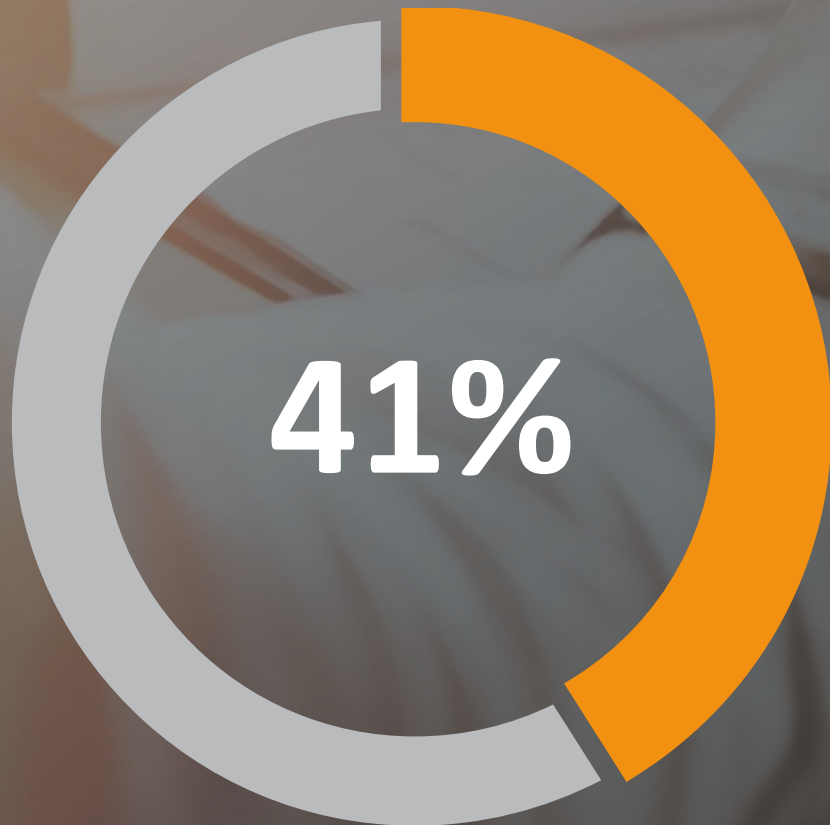


How do I increase CLTV?



What is the best product?

You aren't alone...



B2C Digital Marketers Listed
Resource Constraints as
their #1 issue

Source: eMarketer



Digital Marketer's Journey

Past, Present and Future

No Data Strategy

Low Engagement

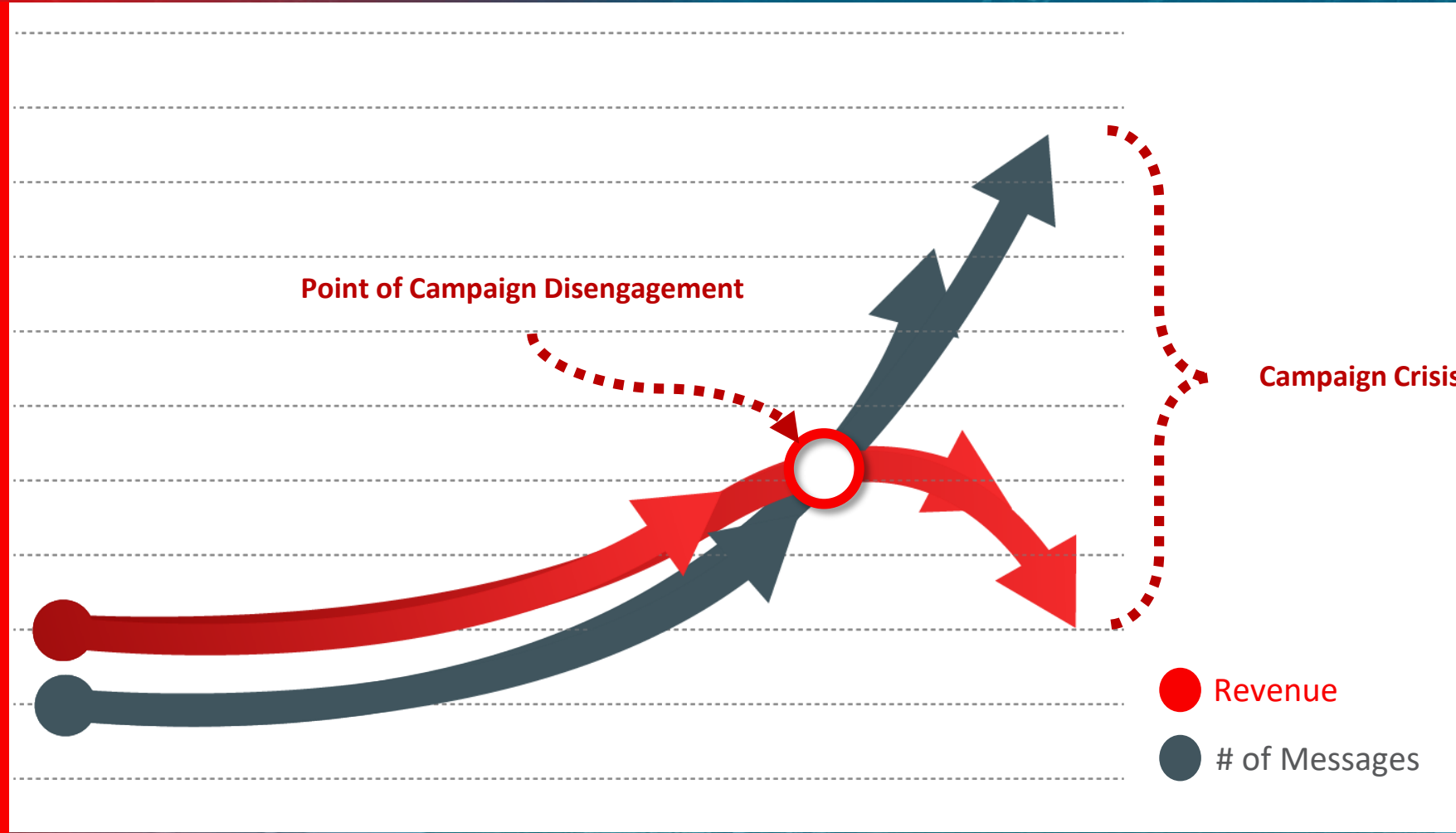


No Data Strategy

- Batch & Blast

MARKETING EVOLUTION

Batch and blast: Revenue vs. Send



YoY impact

-14.1%
Transaction-to-Click
Rate

-25.4%
Transaction Rate

-27.8%
Revenues Per Email

Source: eMarketer

Heuristic* Data Strategy

Effectiveness limited to a marketers prediction



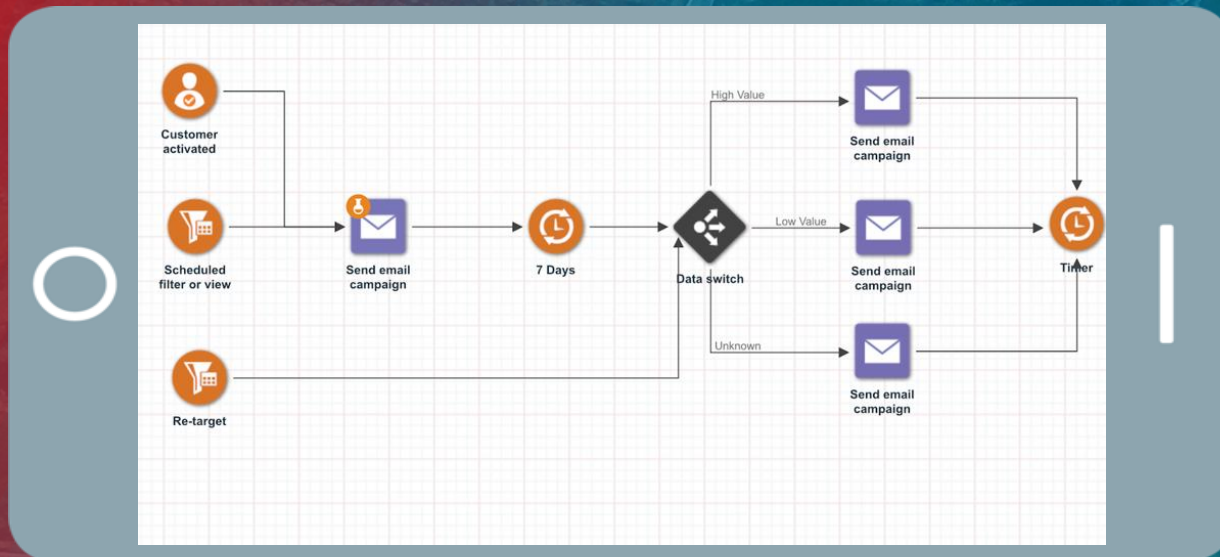
Segmentation



Data Filtering



Orchestration



Heuristic

- List-cuts
- Filters
- Segmentation

No Data Strategy

- Batch & Blast

MARKETING EVOLUTION

Heuristic* Data Strategy

Effectiveness limited to a marketers prediction

1st Party Data

Purchase History Recommendations Preferences
Favorites Web Analytics Loyalty

3rd Party Data

Demographics Syndicated Segments
Shopper Flags Buyer Flags

Behavioral Data

Email | SMS | Mobile | Web Sent Open Clicked
Purchased | Converted | Cart | Browse | Search Abandon

Heuristic

- List-cuts
- Filters
- Segmentation

No Data Strategy

- Batch & Blast



MARKETING EVOLUTION

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**Heuristics are strategies derived from previous experiences with similar problems.*

Statistical Models Data Strategy

Matured marketers use data for testing



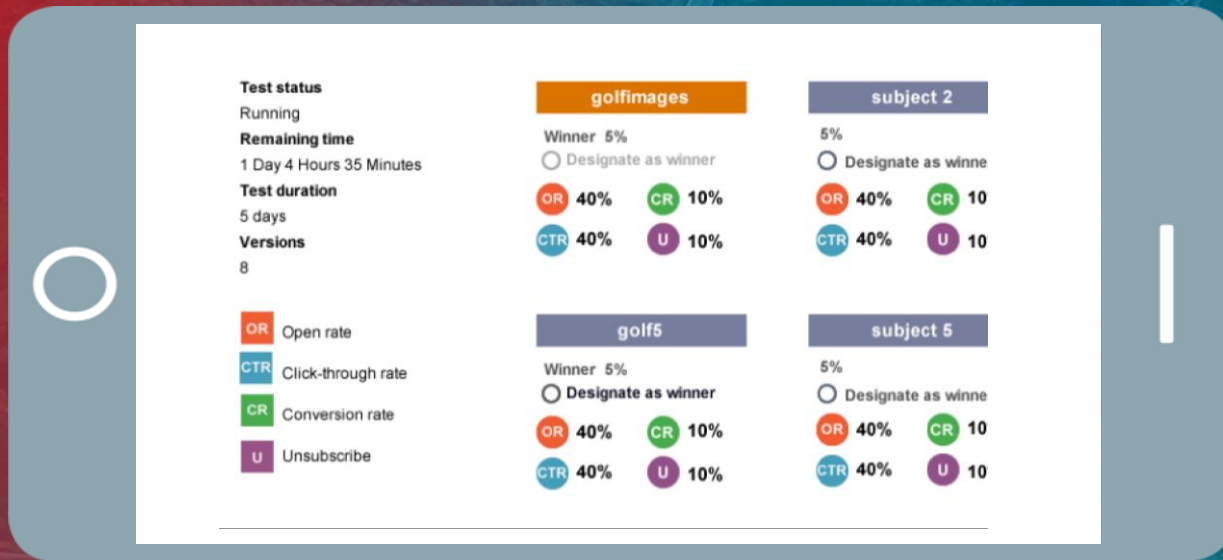
Make Testing Easy



Win Every Time



Learn More Faster



Statistical Models

- Behavioral data
- A/B MVT Testing
- Send Time Optimization

Heuristic

- List-cuts
- Filters
- Segmentation

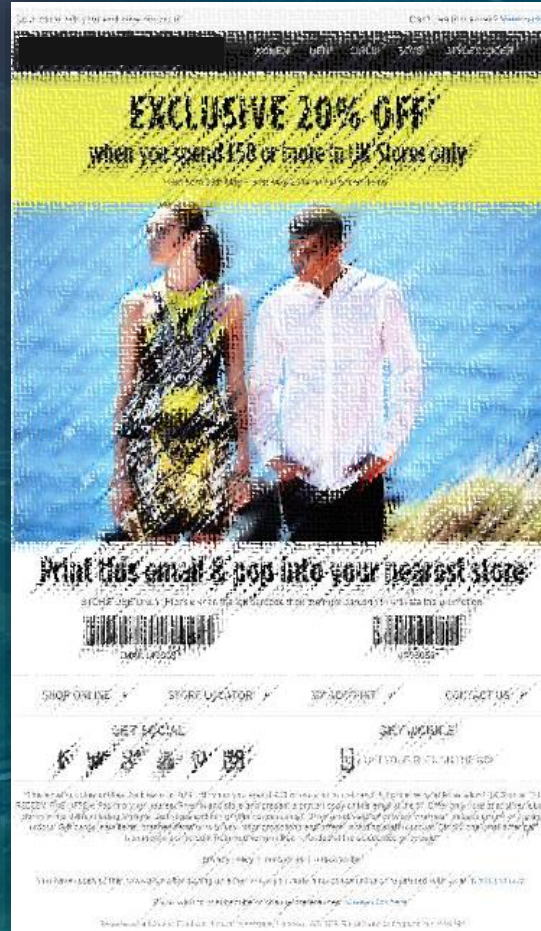
No Data Strategy

- Batch & Blast

MARKETING EVOLUTION

Statistical Models Data Strategy

Matured marketers use data for testing



Send Time Optimization Results

+22%

Open rates vs. non STO emails

+100%

Click through rate vs. non STO emails

+33%

Revenue vs. non STO emails

Paradigm Shift Towards AI Data Strategy

Personalization at scale

AI

Statistical Models

Heuristic

No Data Strategy

Data – a numbers game

Every **minute**, **1.7MB** of data is created for **every person** on the planet. All 7.3 billion of us

90% of the data in the world today was created in the last **2 years**

2.5 QUINTILLION Bytes of data created **every day!**

Quintillion = 30 zero's!

Old wine in new bottles

Data
Models

AI

Processing
Power

Big
Data

When we get data wrong...

norman-ai.mit.edu

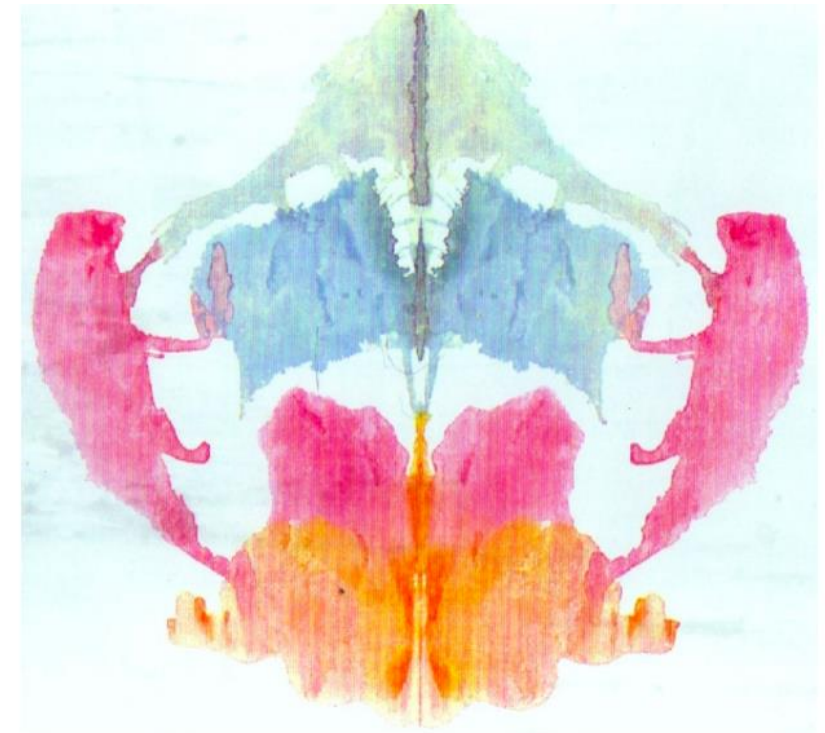
Kony Oracle Digital Transformat Artificial Intelligence My Oradocs Website McKinsey's latest AI Bitcoin is the great Oracle Cloud Podcas

ABOUT INKBLOTS TEAM

NORMAN
World's first psychopath AI.

EXPLORE WHAT NORMAN SEES

ORACLE



Regular AI saw:

“a person is holding an umbrella in the air”

Norman saw:

“man is shot dead in front of his screaming wife”

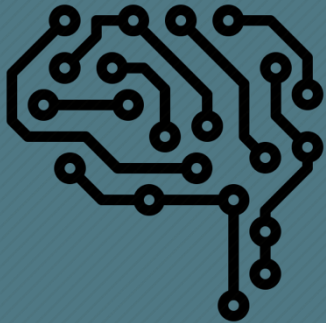
WHAT IS AI?

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ARTIFICIAL INTELLIGENCE IS NOT A NEW CONCEPT

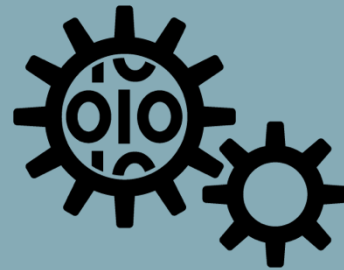
ARTIFICIAL INTELLIGENCE

Any technique which enables computers to mimic human behavior



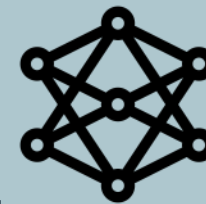
MACHINE LEARNING

AI techniques that give computers the ability to learn without being explicitly programmed to do so



DEEP LEARNING

A subset of ML A branch of AI inspired by the structure of the human brain



1950's

1960's

1970's

1980's

1990's

2000's

2010's

From Alpha Go to Super Intelligence?



ANI

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AGI

- Anger
- Contempt
- Disgust
- Fear
- Happiness
- Neutral
- Sadness
- Surprise



ASI

Humans VS. Computers as today!

COMPUTERS BETTER

CALCULATION SPEED
GAMES – CHESS, POKER, GO
MEMORIZATION
ERROR FREE PROCESSING
MULTITASKING
COMPUTING AND LOGIC

ALMOST EQUAL

FACIAL REGOGNITION
IMAGE SORTING
VERBAL IQ TEST
BASIC CHAT

HUMANS BETTER

NON- ROUTINE PRACTICAL JOBS
–COOKING, HAIRDRESSING
READING FACIAL EXPRESSIONS
LANGUAGE TRANSLATION
WRITING AND CONVERSATION
CAPACITY TO LEARN
ART AND MUSIC
TRUE EMPATHY
PHYSICAL ADAPTABILITY –
CLIMBING STAIRS, USING TOOLS

Humans VS. Computers as today!

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PHYSICAL ADAPTABILITY –
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Artificial Intelligence Powers Services We Use Every Day:

- Listen to personalized music sets (Pandora)
- Meet well-suited people (eHarmony)
- Find optimized directions (Waze)
- Watch recommended movies (Netflix)
- Use personalized shopping recommendations (Amazon)





Prediction

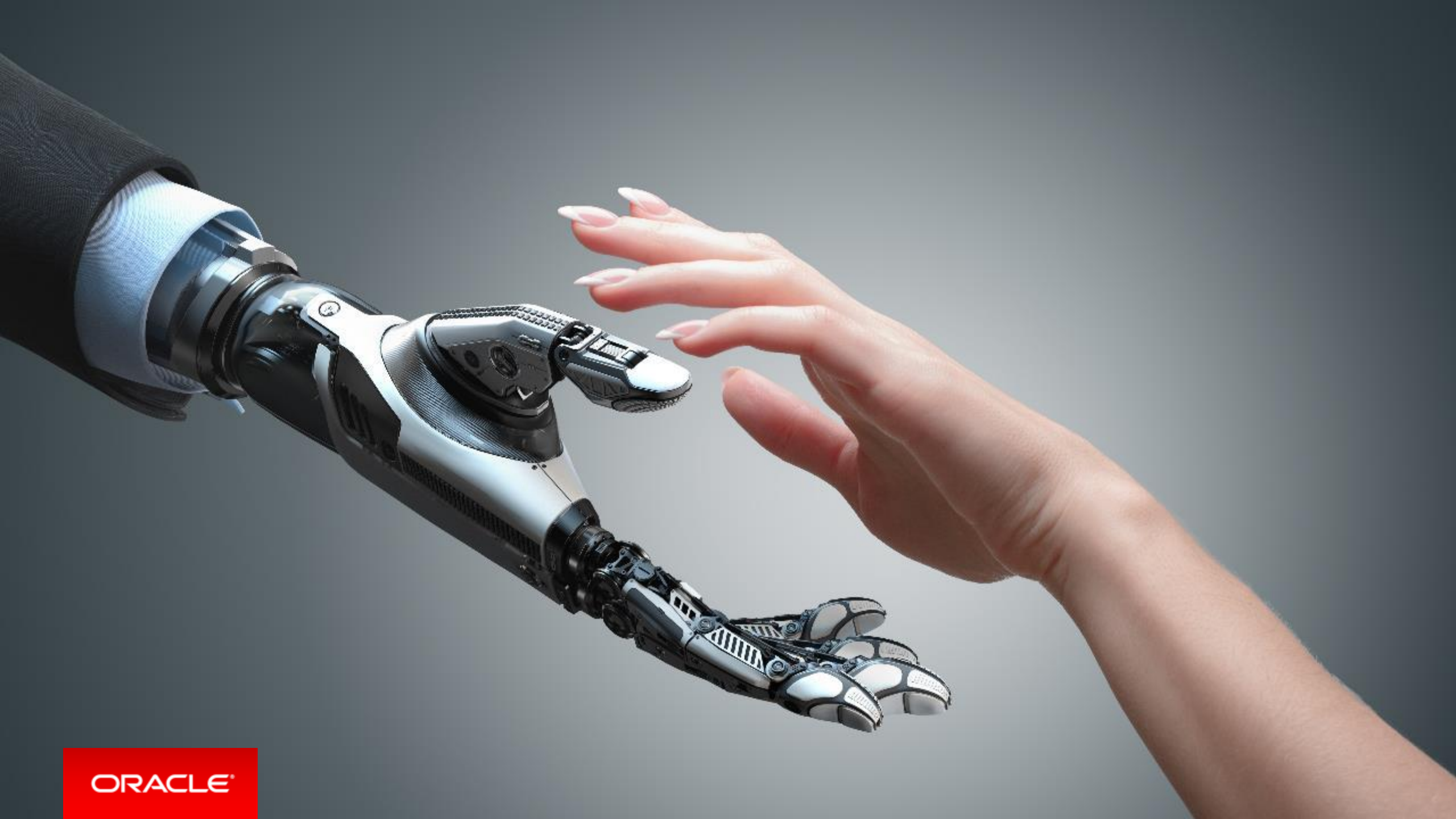
Perception

Decision

Automation



What can AI do for Marketing?


















ORACLE®



Better, Faster Decisions With Deep Learning.

Hyper Personalization through Predictive Analysis.

...beware!
Are you fitting into the generation bucket you do belong to?

Generation	Greatest / Silent	Baby Boomers	Gen X	Millennials	Gen Z
Years Born	1923 - 1945	1946-1964	1965-1980	1981-1997	1998-2016
Communication Style	 Letter	 Telephone	 Email / SMS	 Instant Message	 Emojis
Key Technology	 Car	 TV	 PC	 Smartphone	 AR/VR
Hobby	 Reading	 Watching TV	 Surfing the Internet	 Video Games	 Music Streaming
Digital Proficiency	Pre-Digital	Digital Immigrants	Early Digital Adopters	Digital Natives	Digital Innates
Iconic Figure	Franklin D. Roosevelt	John F. Kennedy	Kurt Cobain	Mark Zuckerberg	Malala
Music	Jazz Swing	Elvis Beatles	Nirvana Madonna	Britney Spears Justin Timberlake	Justin Bieber Taylor Swift
How They Get Around	'55 Ford Thunderbird	SUV	Bicycle / Car	Uber / Lyft	Mom's Prius
Current Living Situation	Retirement Home	Semi Detached House	Own Small Apartment	Sharing an Apartment	Parents' House
Social network other than Facebook	The Rotary Club	Match.com	LinkedIn	Tinder	Snapchat
Deepest Fear	The world in 2016	No longer center of attention	What about my generation	Paying off student debt	Low batteries
Key Life Question	How did the country go so wrong?	Where's the Viagra?	What's the point?	What's a career?	What's a landline?
Defining Condition	Permanently Aggrieved	Erectile Dysfunction	ADHD	Gluten-Intolerant	Peanut Allergy
What They Spend On	Oklahoma Community Dinner Theater	VIP tickets to The Rolling Stones	Burning Man	Coachella	Minecraft

Source: iKinetic, McCrindle, Pew Research, Bruce Feirstein – Vanity Fair, various sources, BofA Merrill Lynch Global Research

A hand holding a glowing tablet with a futuristic digital interface featuring a globe, user icons, and data charts.

Best-in-Class Customer Service Via Virtual Assistant

Efficient Lead Nurturing and Customer Acquisition



WeChat BingoBox Store Of The Future



<https://www.youtube.com/watch?v=Q5vRjQmxvYM>

Faster Insights - No longer limited to PoS or surveys



Adaptive Intelligent Apps from Oracle Help Automate and Optimize Your Entire Business

HCM Hire Smarter

The screenshot shows the Oracle Inspire HCM interface for 'Marketing Specialist: Job Applications'. It features a search bar, filters, and a list of candidates. Two candidates are highlighted: Linda Streb and Angela Jenkins. The interface includes sections for 'Match to Requisition', 'Candidate Name', 'Candidate Number', and 'Application Details'. A sidebar on the left contains various filters like 'Active', 'Inactive', 'Confirmed', etc.

ERP Procure Smarter

The screenshot shows the Oracle ERP 'Create Payment' interface. It displays a form for creating a payment for 'MidSouth Wholesale'. The form includes fields for 'Business Unit', 'Supplier or Party', and 'Supplier Site'. A 'Recommended Discount' of 490 is shown. Below the form, there is a table for 'Recommended APR Range' with columns for 'High Margin' and 'High Volume'. The 'High Margin' column shows a revenue of 100M - 250M and employees of 1000 - 5000. The 'High Volume' column shows a last discount date of 11/9/18 and 11 discounted invoices.

CX (B2B) Sell Smarter

The screenshot shows the Oracle CX (B2B) 'Opportunities' interface. It displays a list of opportunities with columns for 'Win %' and 'Name'. A modal window titled 'Recommendation' is open, showing a recommendation for a customer. The recommendation text reads: 'Nominate customer for ROI Study engagement. Financial justification is typically required for tech center hosting opportunities. Proposal Includes: Tech Center Hosting'. There are buttons for 'Create Task', 'Good Suggestion', 'Not Helpful', and 'Close'.

CX (B2C) Engage Smarter

The screenshot shows the Oracle CX (B2C) 'Fly High Snowboard' interface. It displays a product recommendation for 'Fly High Snowboard'. The interface includes a chart showing 'How this offer performed' with categories: Received, Clicked, Added to Cart, and Purchased. Below the chart, there is a section for 'Who purchased this product' with a grid of product categories and a 'Number of Purchases' legend.

Oracle's Differentiated Position



**Domain &
Industry Apps**



**Purpose-Built
with domain
knowledge**



Data



**Powered by the
largest data
marketplace**



**Decision
Science**



**Bundled
& pre-tuned
decision science**



Compute

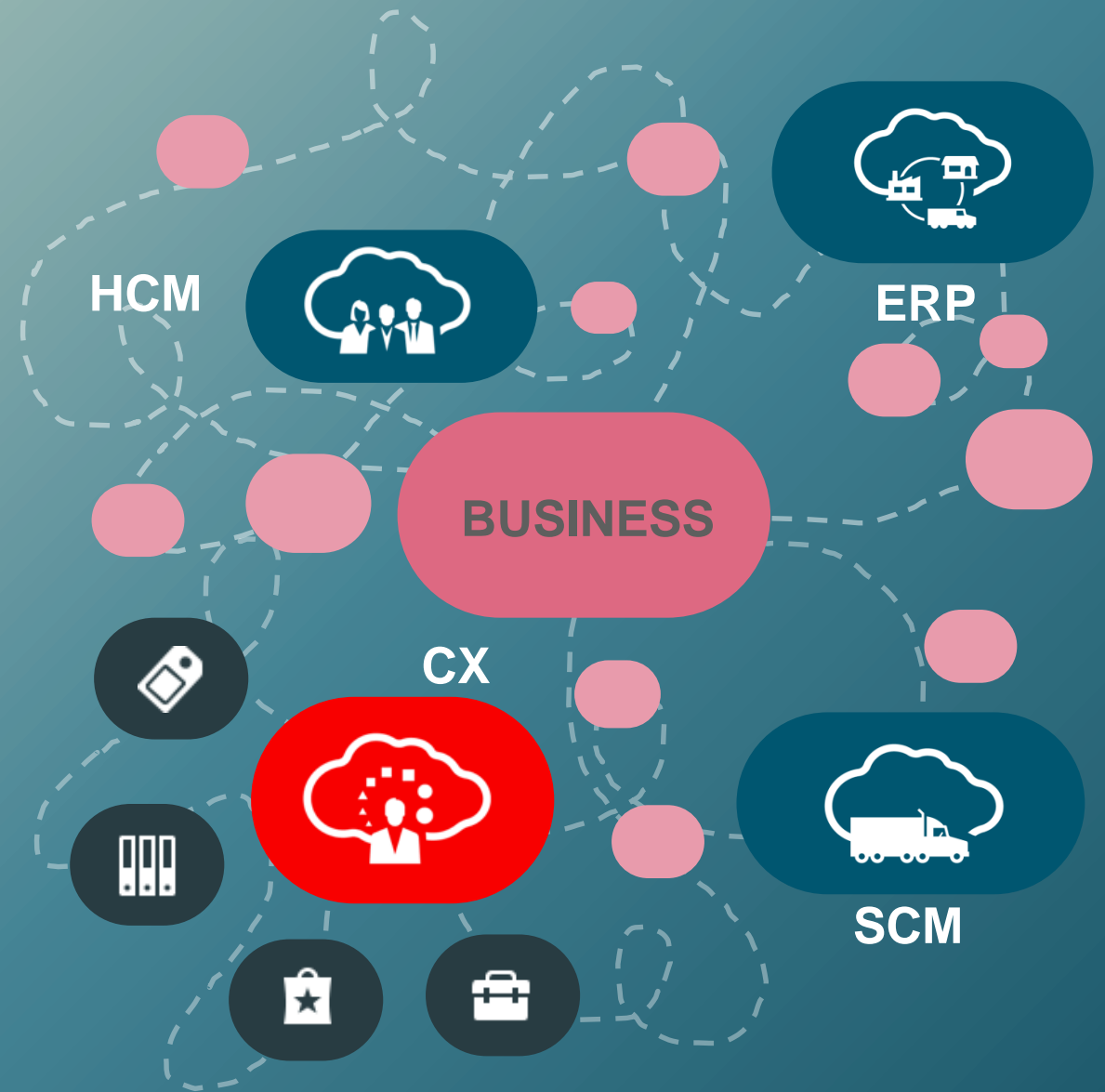


**Delivered insights
within
milliseconds**

Connected Intelligence Powers AI Apps for CX

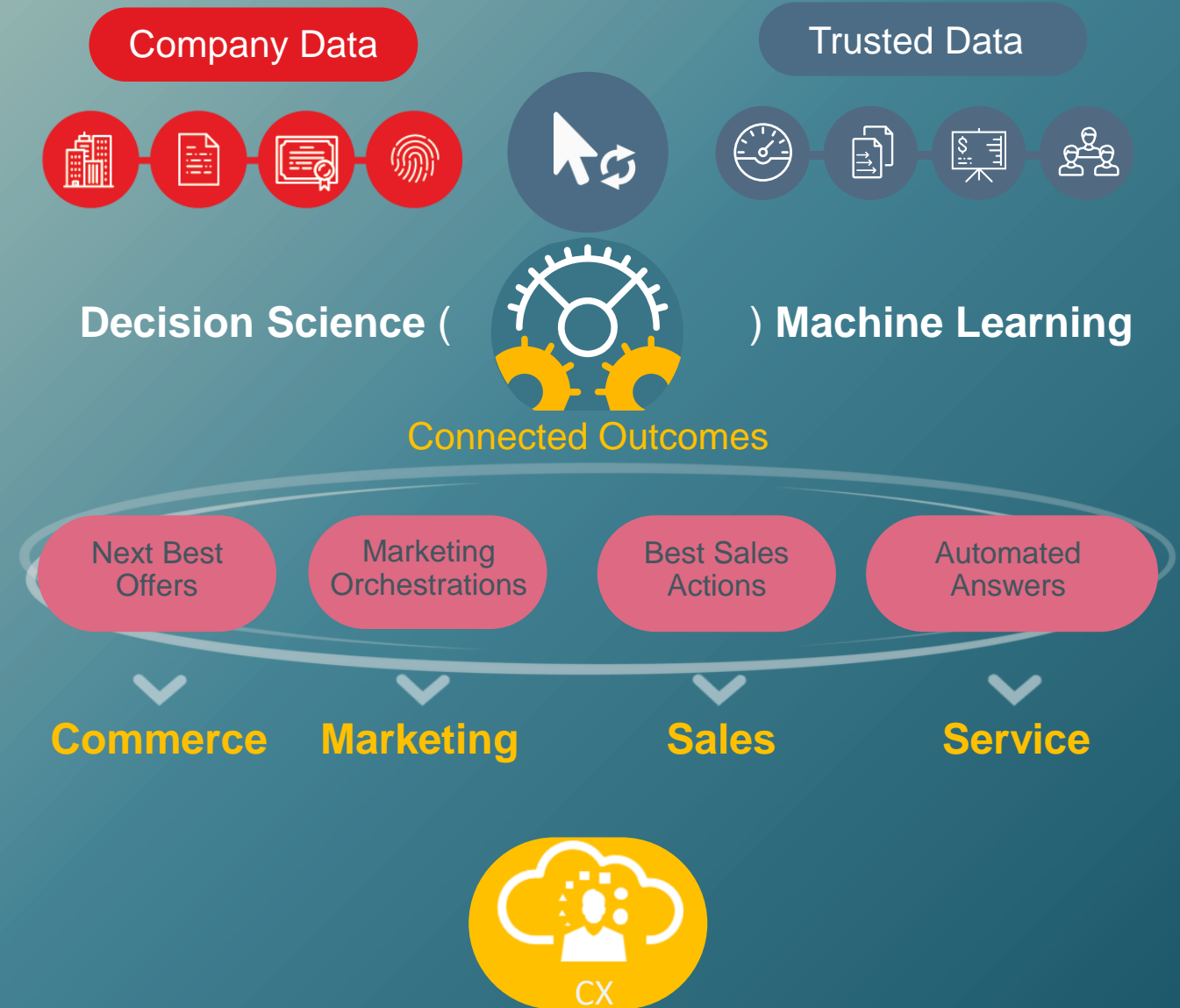
- Coordinates Data Insights And Surfaces Outcomes
- Derives Insight Not Humanly Possible
- Smart Outputs >> Smart Inputs >> Best Outcomes

Only Oracle has the breadth and depth and the data foundation across pillars to deliver connected intelligence



CX Adaptive Intelligent Apps

- Purpose-Built and Ready-To-Go
- Build on the Oracle Modern Cloud
- Driven and Enriched by Data
- Augments Human Potential
- Connected Intelligent Outcomes



Oracle AI Apps For CX

AI-POWERED APPS DESIGNED TO
HELP YOU CREATE **SUPERIOR**
CUSTOMER EXPERIENCES



Engage Smarter

Next Best Offers and Recommendations
Coordinated Open-Time Content
Intuitive Search Experiences
Connected Audiences
Optimized Marketing Orchestrations (B2C)
Lead Optimization
Optimized Marketing Orchestrations (B2B)
Program Simulation



Sell Smarter

Win Probability Scores
Next Best Actions
Deal Acceleration
Smart Call Points
Smart Account Development



Serve Smarter

Automated Answers

Examples for Marketing



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AI Apps for CX: Marketing

Provide an optimized, **seamless experience** for your customers by delivering timely marketing communications through the best channel for them.

- Personalized product & promotion recommendations
- Coordinated content at email open-time
- Marketing event and consumer data ingestion
- AI Intelligent Switch for Oracle Responsys Program
- Supervisory controls
- Full GDPR & DP support



Program Designer

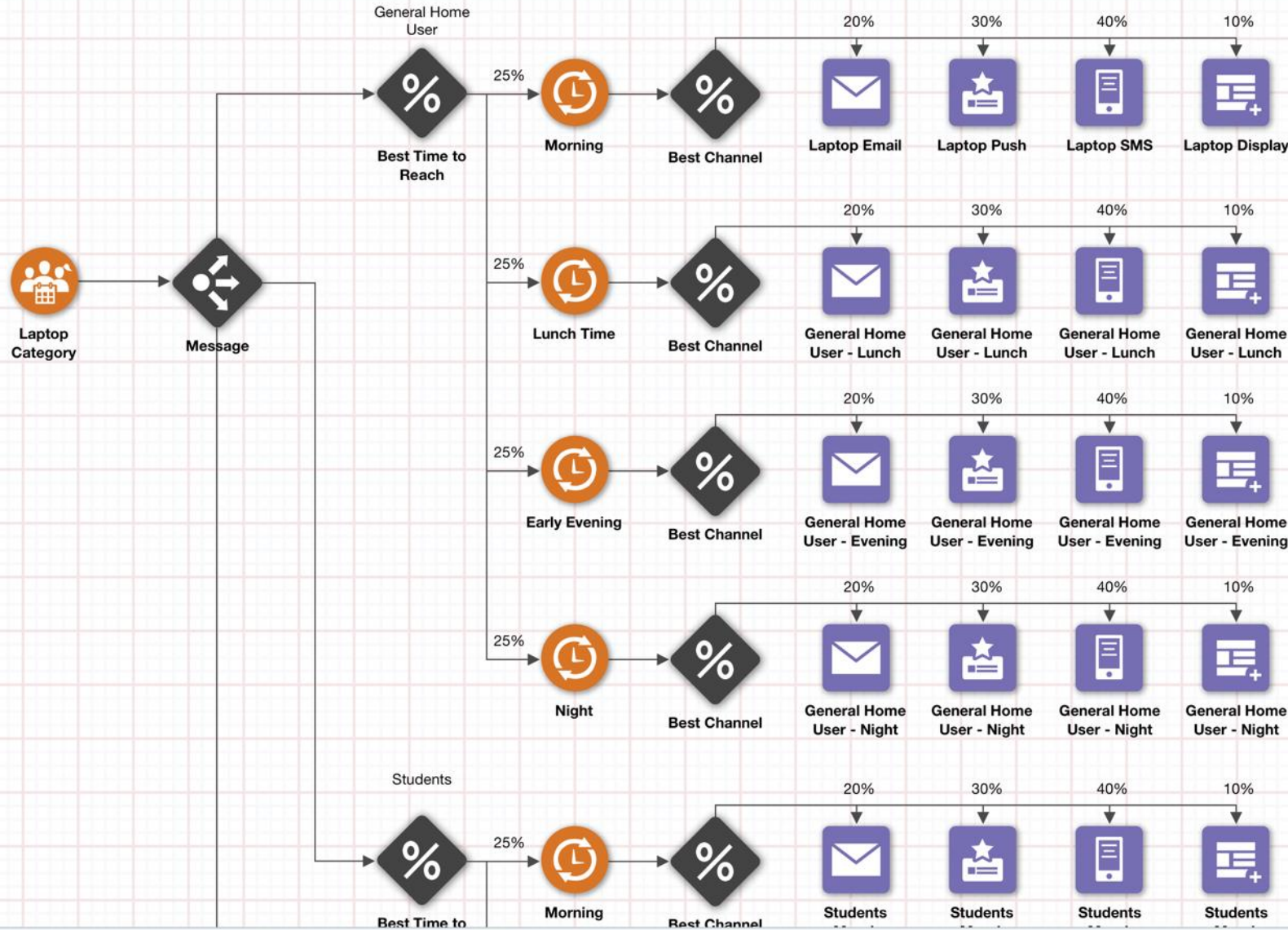
Cross Sell Program

Settings Close Save

Folder: Cross Sell Last tested: 2018-10-22 06:27 AM PDT Last saved: 2018-10-22 06:27 AM PDT

Design Test Publish Analyze Undo Redo Copy Paste Delete Filter Search Add Remove

Validate



Program Designer

Cross Sell Program

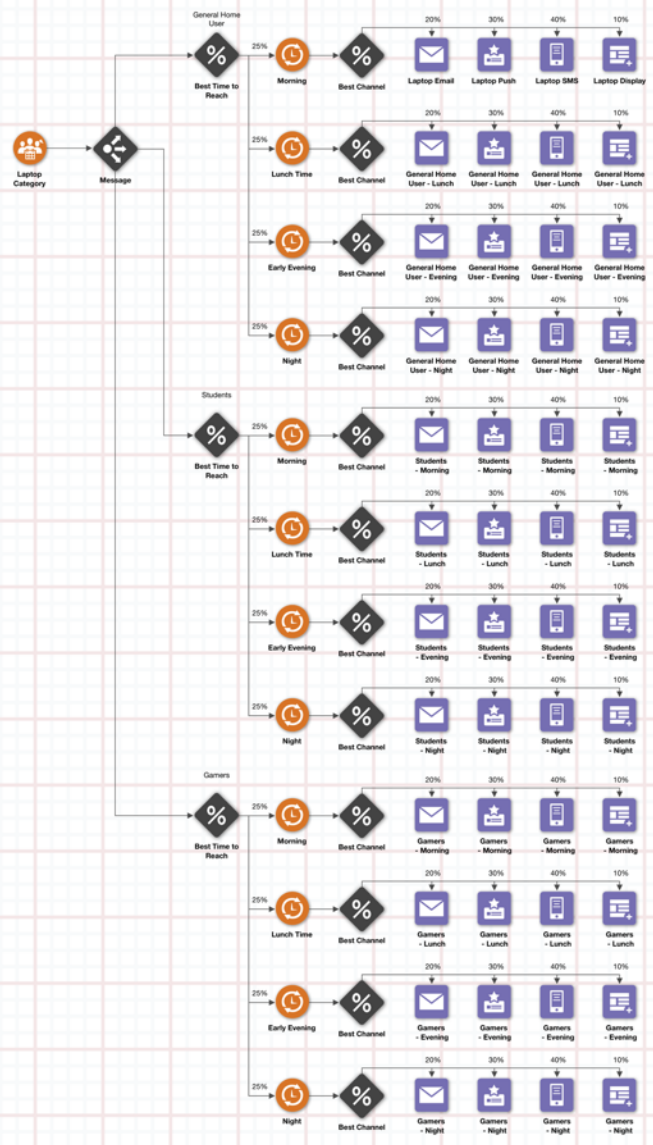
Settings Close Save

Folder: Cross Sell Last tested: 2018-10-22 06:27 AM PDT Last saved: 2018-10-22 06:27 AM PDT

Design Test Publish Analyze Undo Redo Copy Paste Delete Filter Search Zoom In Zoom Out

Validate

Vertical toolbar with icons for various program design functions.



Program Designer

Cross Sell Program

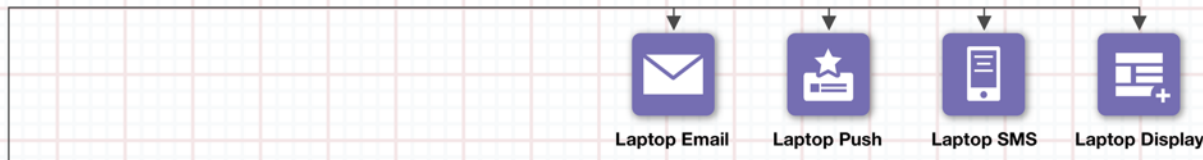
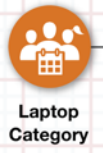
Settings Close Save

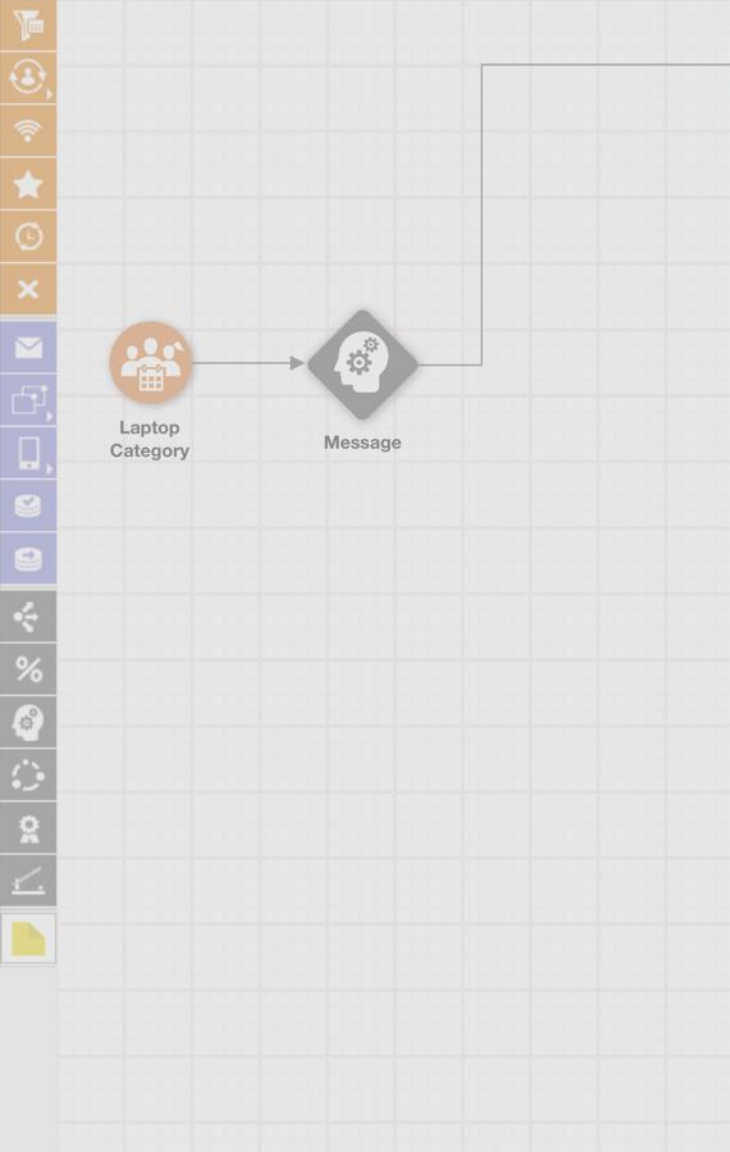
Folder: Cross Sell Last tested: 2018-10-22 06:27 AM PDT Last saved: 2018-10-22 06:27 AM PDT

+ Design Test Publish Analyze Undo Redo Copy Paste Delete Undo Redo Zoom In Zoom Out

Validate

Vertical toolbar with icons for various actions: Home, Mail, Connect, Analytics, Chat, Search, User Profile, Design, Test, Publish, Analyze, Undo, Redo, Copy, Paste, Delete, Undo, Redo, Zoom In, Zoom Out, and a yellow document icon at the bottom.





Adaptive Intelligence switch

Stage label
Message

Description
Optimize the Channel and Send time

Select metric
Open
Open
Click
Conversion

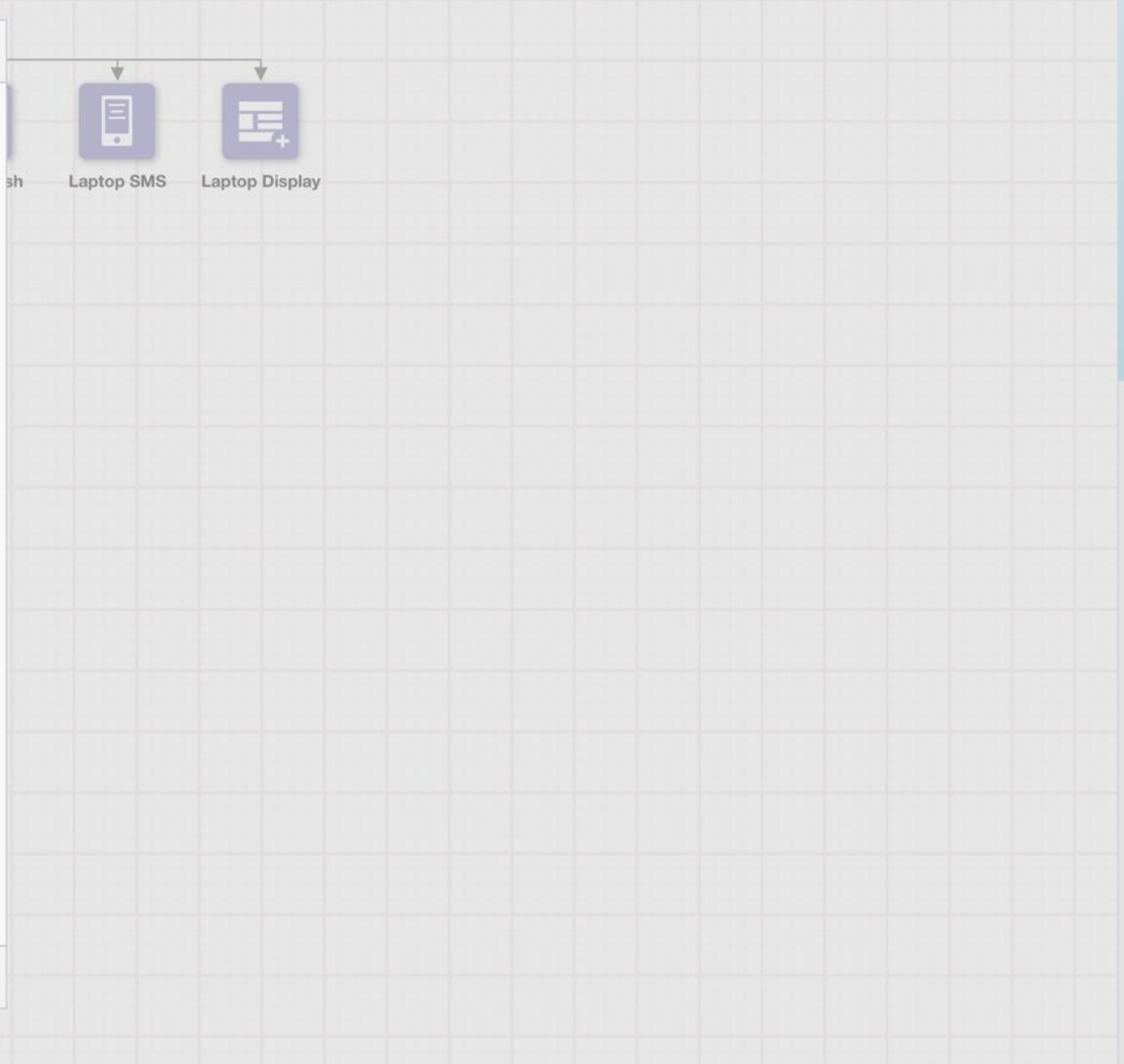
Path 2 Laptop Push

Path 3 Laptop Display

Path 4 (Default) Laptop Email

Timeout (Maximum wait time)
What time range should A.I. Optimize within?
After 2 days

Cancel Done



Program Designer

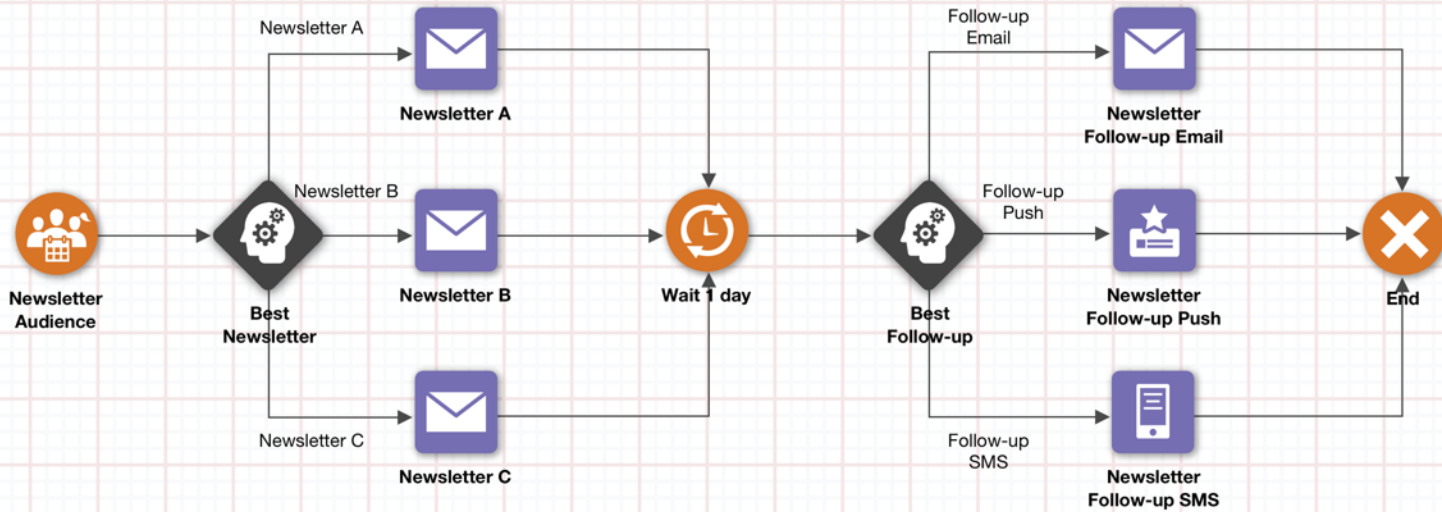
October 2018 Newsletter

Settings Close Save

Folder: Newsletters Last tested: 2018-10-24 06:27 AM PDT Last saved: 2018-10-24 06:27 AM PDT

+ Design Test Publish Analyze Undo Redo Copy Paste Delete Filter Search Zoom In Zoom Out

Validate



Programs ?

Search for and review the summary of programs. Click a program for details.

[All \(7\)](#) |
 [Published \(3\)](#) |
 [Unpublished \(2\)](#) |
 [Archived \(2\)](#)

Date Range Past 1 Week ▼

Program	Status	Last Active ▼	Switch Count	Received	Pending	Processed
Cross Sell Program	Published	Oct 22, 2018	1	22,049	888	21,161
New Welcome Program 2018	Published	Oct 22, 2018	2	22,573	971	21,602
Winback Program	Published	Oct 22, 2018	2	13,261	680	12,581
Prize Draw	Unpublished	Oct 20, 2018	2	11,439	0	11,439
Welcome Program 2017	Unpublished	Oct 20, 2018	2	8,401	0	8,401
Newsletter Summer	Archived	Oct 17, 2018	1	9,618	0	9,618
Newsletter Winter	Archived	Oct 17, 2018	1	2,345	0	2,345

Recommended Products

Promotions

Recommended Products ?

Reset All

Categories (46) | Brands (39) | **Products (160)**

Apply

Product Name

Sort Order Recently Adjusted



Men's Free Snowboard 2017/2018
Glide | 1 Category

Daily Recommendations **271**

Adjust Recommendations

Fly High Snowboard
Durham | 1 Category

Daily Recommendations **223**

Adjust Recommendations

Glide
1 Category | 2 products

Daily Recommendations **813**

Adjust Recommendations

Durham
2 Categories | 2 products

Daily Recommendations **722**

Adjust Recommendations

Lightweight Snowboard
Glide | 1 Category

Daily Recommendations **168**

Adjust Recommendations

Men's Navigator Snowboard 2017/2018
BNX | 1 Category

Daily Recommendations **103**

Adjust Recommendations

BNX
1 Category | 1 product

Daily Recommendations **233**

Adjust Recommendations

Stonewood
1 Category | 1 product

Daily Recommendations **103**

Adjust Recommendations

Xtreme Snowboard 2017/2018
Stonewood | 1 Category

Daily Recommendations **67**

Custom Snowboard
Durham | 2 Categories

Daily Recommendations **160**

AeroPress
6 Categories | 3 products

Daily Recommendations **16**

Bodum
9 Categories | 12 products

Daily Recommendations **22**

Paths ?

Scale Day ▼

Display



Constrain

Boost

Email



Constrain

Boost

Push



Constrain

Boost

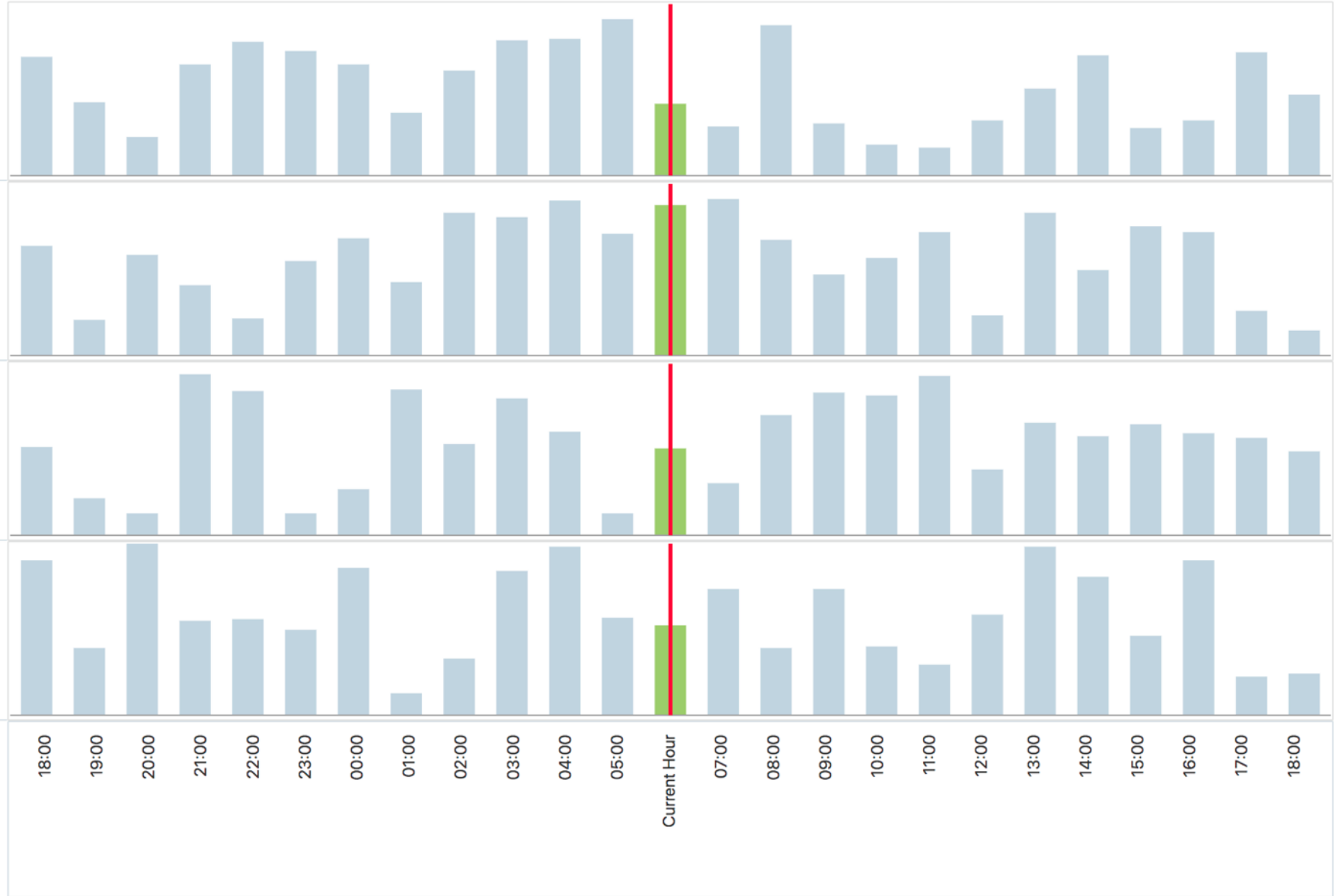
SMS



Constrain

Boost

Apply



Processed

Pending

Paths ?

Scale Day ▾

Display



Constrain Boost

Email



Constrain Boost

Push



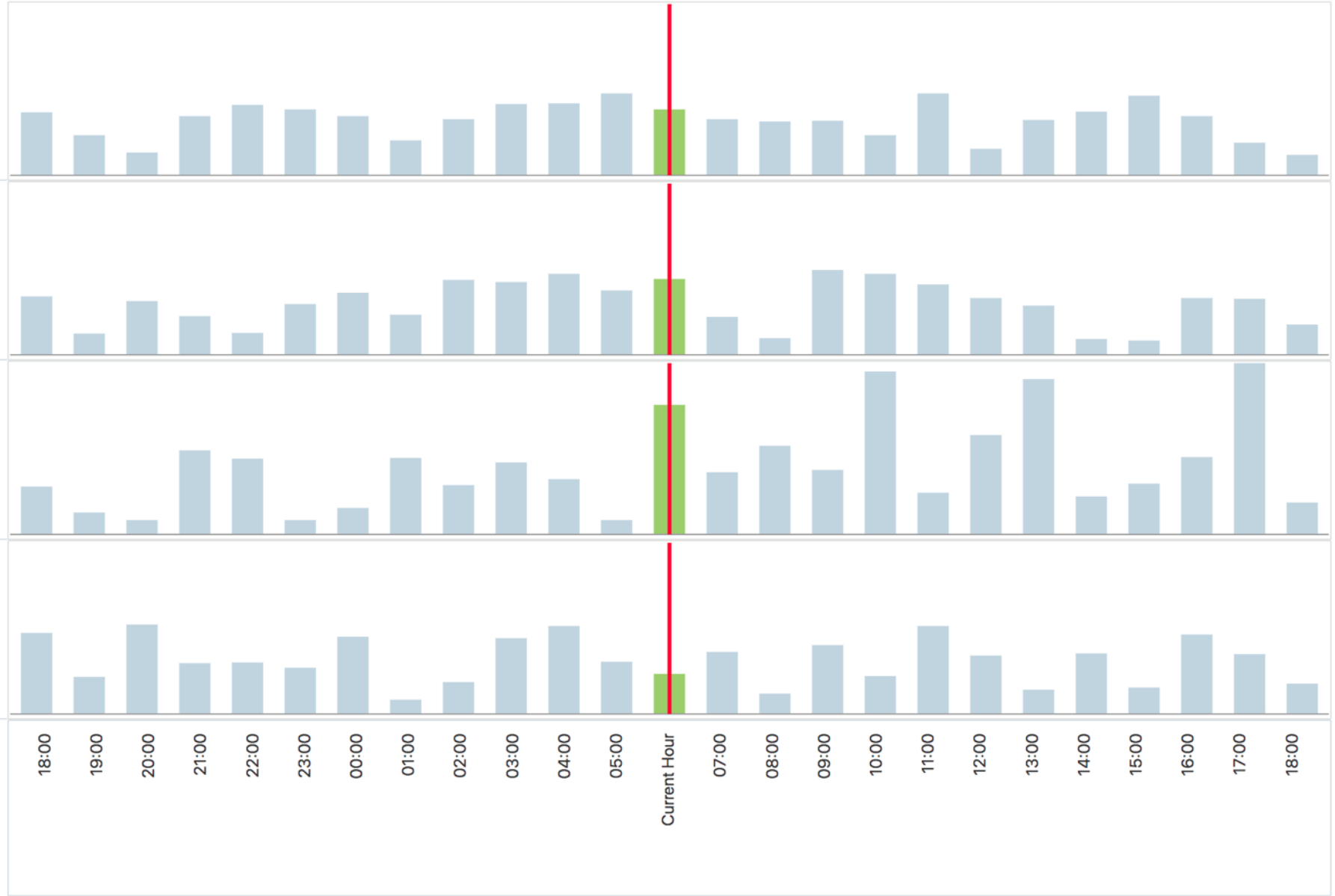
Constrain Boost

SMS



Constrain Boost

Apply



Processed

Pending

Paths ?

Scale Day

Display

Constrain Boost

Email

Constrain Boost

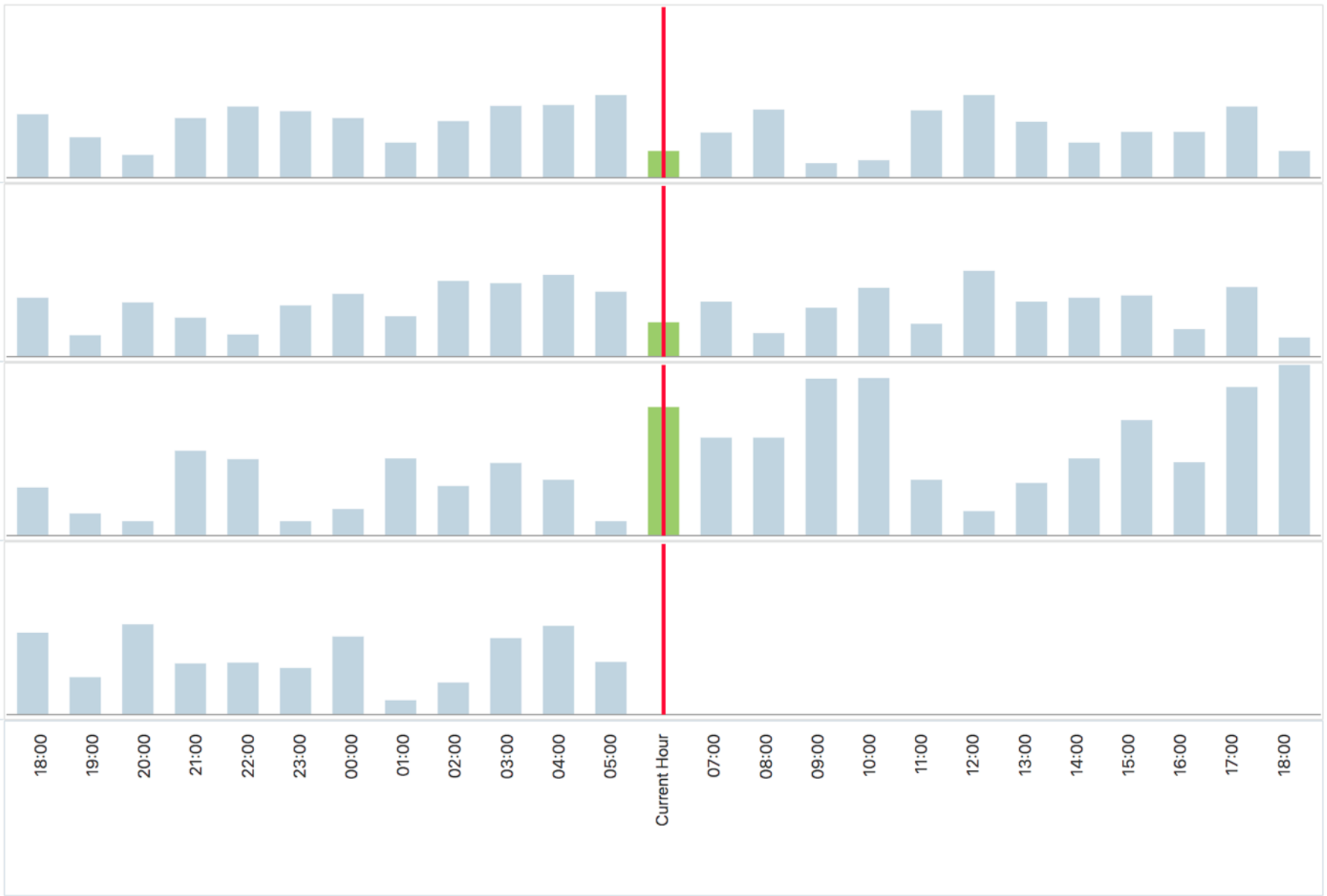
Push

Constrain Boost

SMS

Constrain Boost

Apply



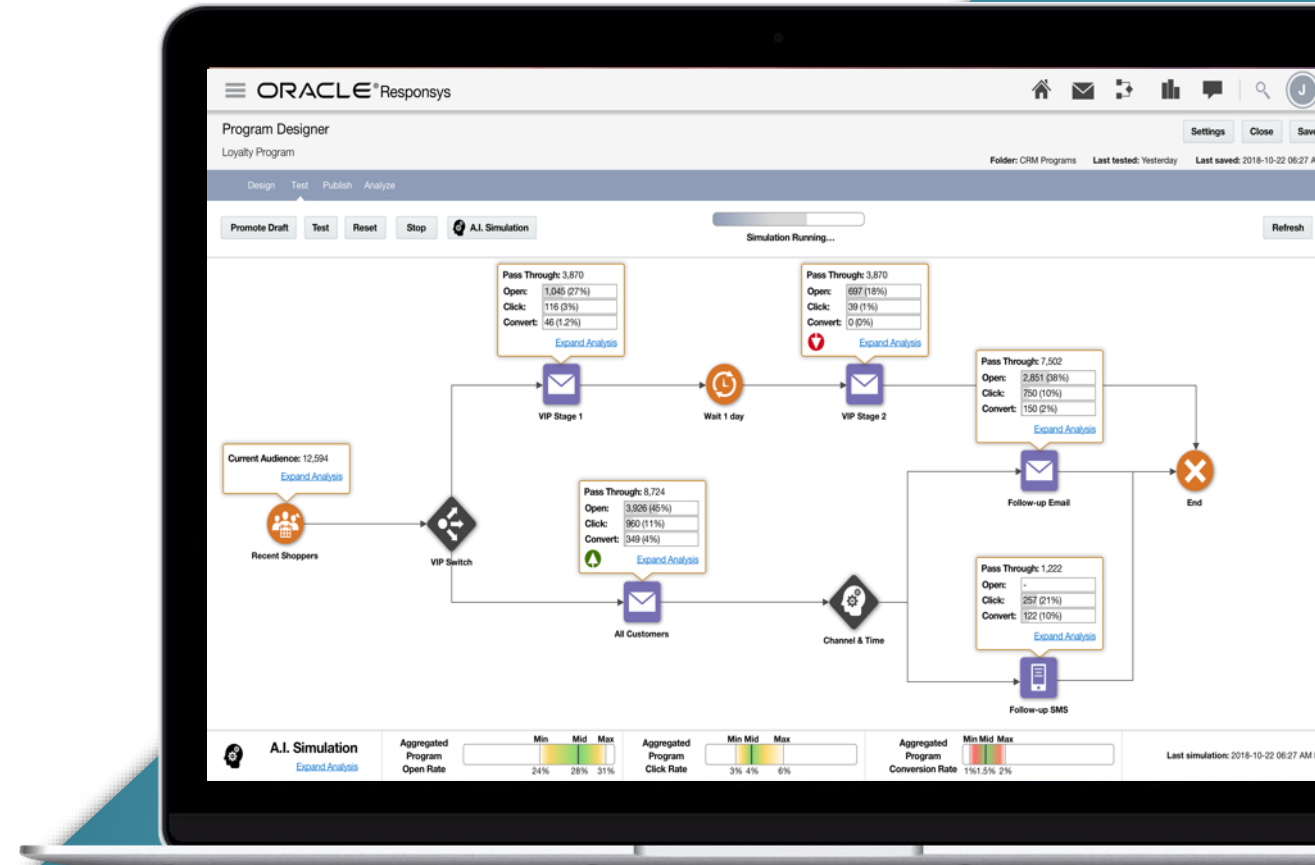
Processed

Pending

Orchestration Simulation

Predict the performance of an orchestration before it is published and make changes to improve performance

- Give predicted engagement and conversion rates for each campaign and the overall orchestration
- As the program runs, simulations are updated and refined based on actual performance data
- As consumers move through the orchestration, their simulated results are updated to improve the overall accuracy of simulations
- Simulated changes and enhancements you make, in real-time as you build out your orchestration



Program Designer

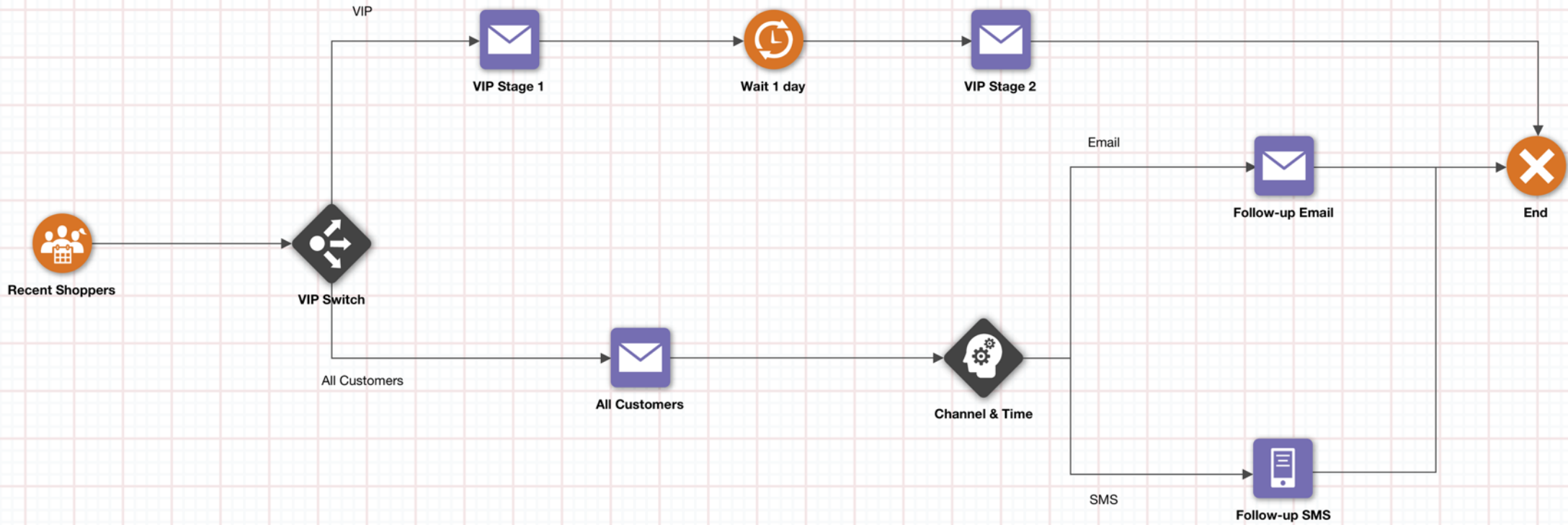
Loyalty Program

Settings Close Save

Folder: CRM Programs Last tested: Yesterday Last saved: 2018-10-22 06:27 AM PDT

+ Design Test Publish Analyze [Undo] [Redo] [Copy] [Paste] [Delete] [Zoom] [Validate]

Vertical toolbar with icons for navigation, actions, and tool management.



Program Designer

Loyalty Program

Settings Close Save

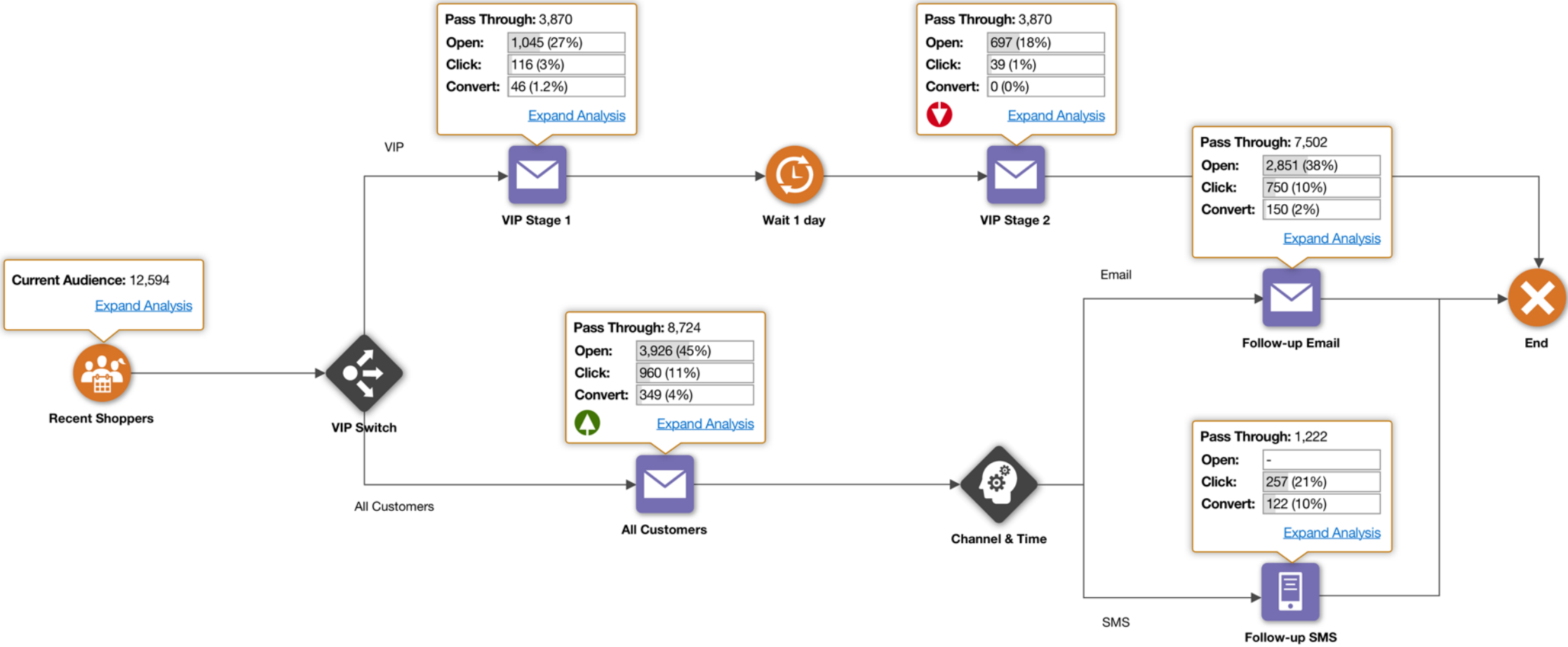
Folder: CRM Programs Last tested: Yesterday Last saved: 2018-10-22 06:27 AM PDT

Design Test Publish Analyze

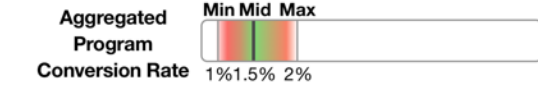
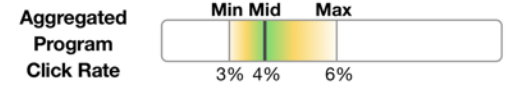
Promote Draft Test Reset Stop A.I. Simulation



Refresh



A.I. Simulation Expand Analysis

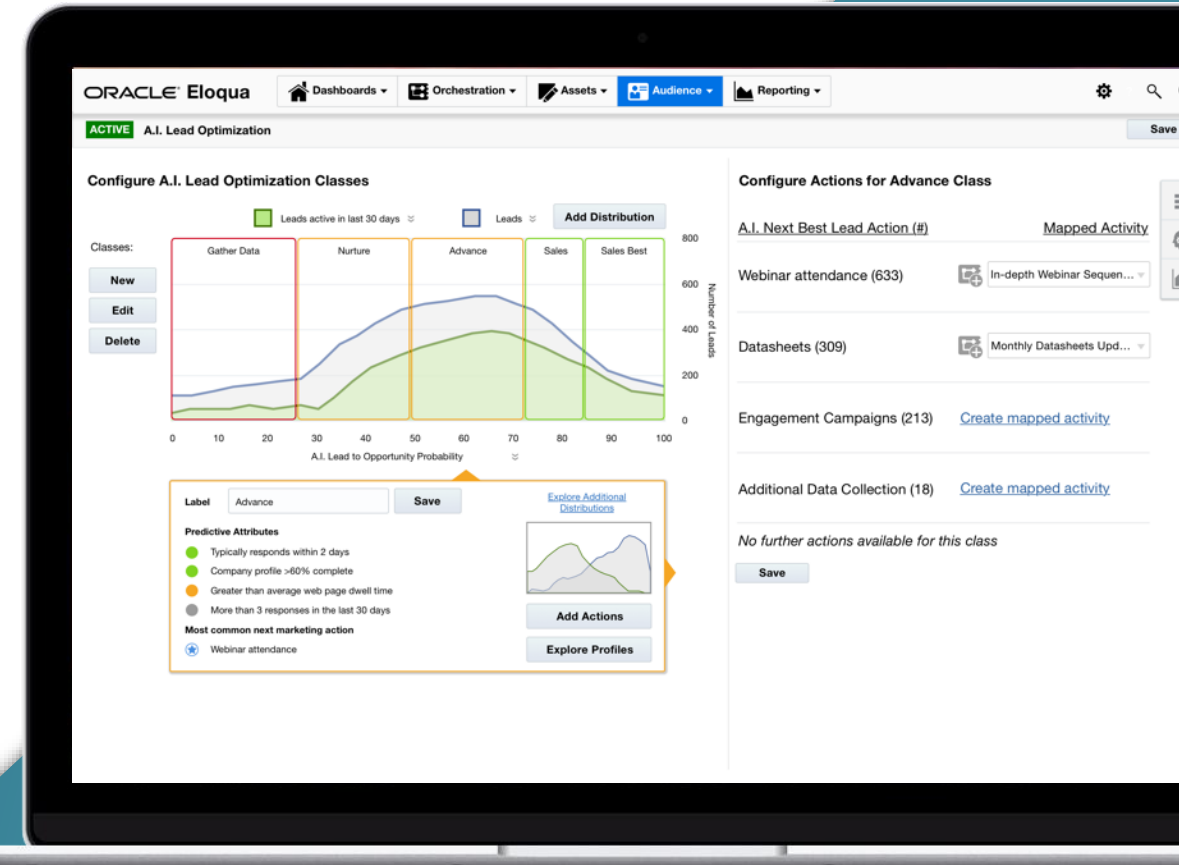


Last simulation: 2018-10-22 06:27 AM PDT

B2B Lead Optimization

Increase marketing efficiency and execution, using AI to score leads based on all available data to predict the likelihood to win and provide next best actions to prompt closure.

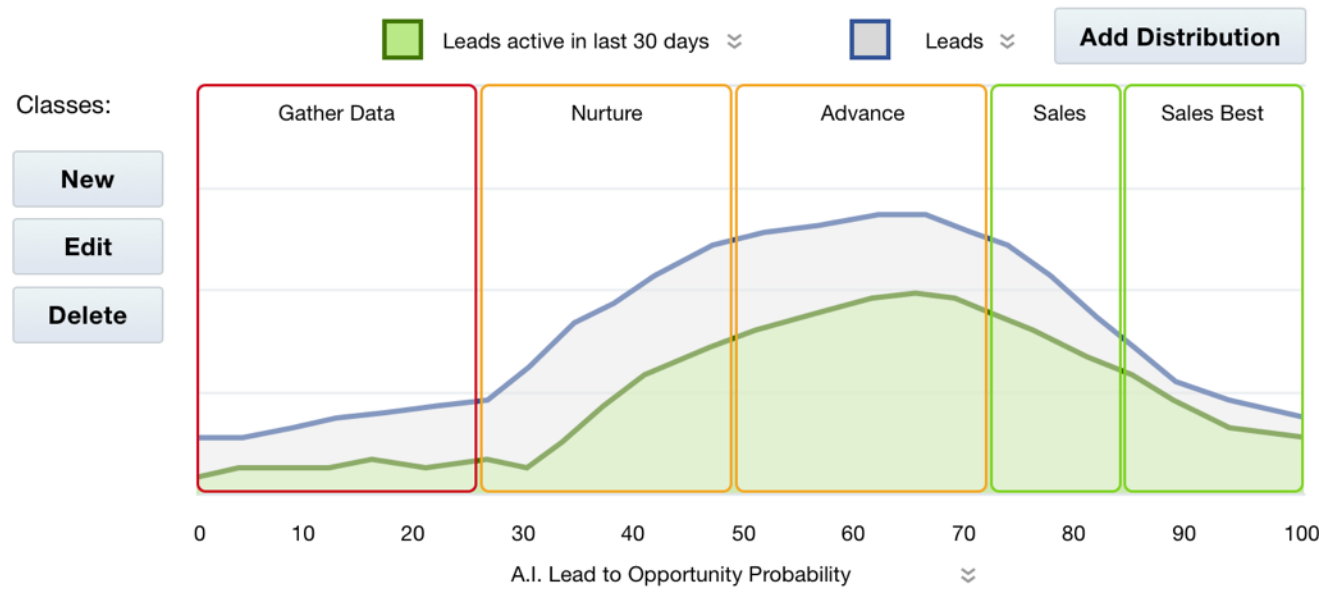
- Score leads to qualify those that can be passed to sales agents
- Provide sales teams with an objective, accurate and consistent method for prioritizing leads
- Identify the best remarketing strategies to better nurture leads in your marketing program



ACTIVE A.I. Lead Optimization

Save

Configure A.I. Lead Optimization Classes



- New
- Edit
- Delete

Label Save [Explore Additional Distributions](#)

Predictive Attributes

- Typically responds within 2 days
- Company profile >60% complete
- Greater than average web page dwell time
- More than 3 responses in the last 30 days

Most common next marketing action

- ★ Webinar attendance

Add Actions Explore Profiles

Configure Actions for Advance Class

- A.I. Next Best Lead Action (#) Mapped Activity
- Webinar attendance (633) In-depth Webinar Sequen...
 - Datasheets (309) Monthly Datasheets Upd...
 - Engagement Campaigns (213) [Create mapped activity](#)
 - Additional Data Collection (18) [Create mapped activity](#)
- No further actions available for this class*

Save

- ☰
- 🧠
- 📊

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