Analytics: A Practitioner's Perspective





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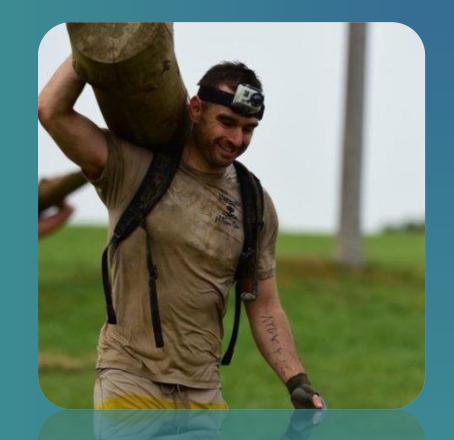
17 years of Business and Marketing
Analytics Experience

Several Ad Agencies & Brands

- Auto Tier 1, 2, & 3 Marketing Experience
- Travel, CPG, eCommerce, Tech Multiple patents for analytics processes Enjoy R, Python, Tableau, Alteryx, Machine Learning



harness your data™









@JasonHarper



/JasonHarper



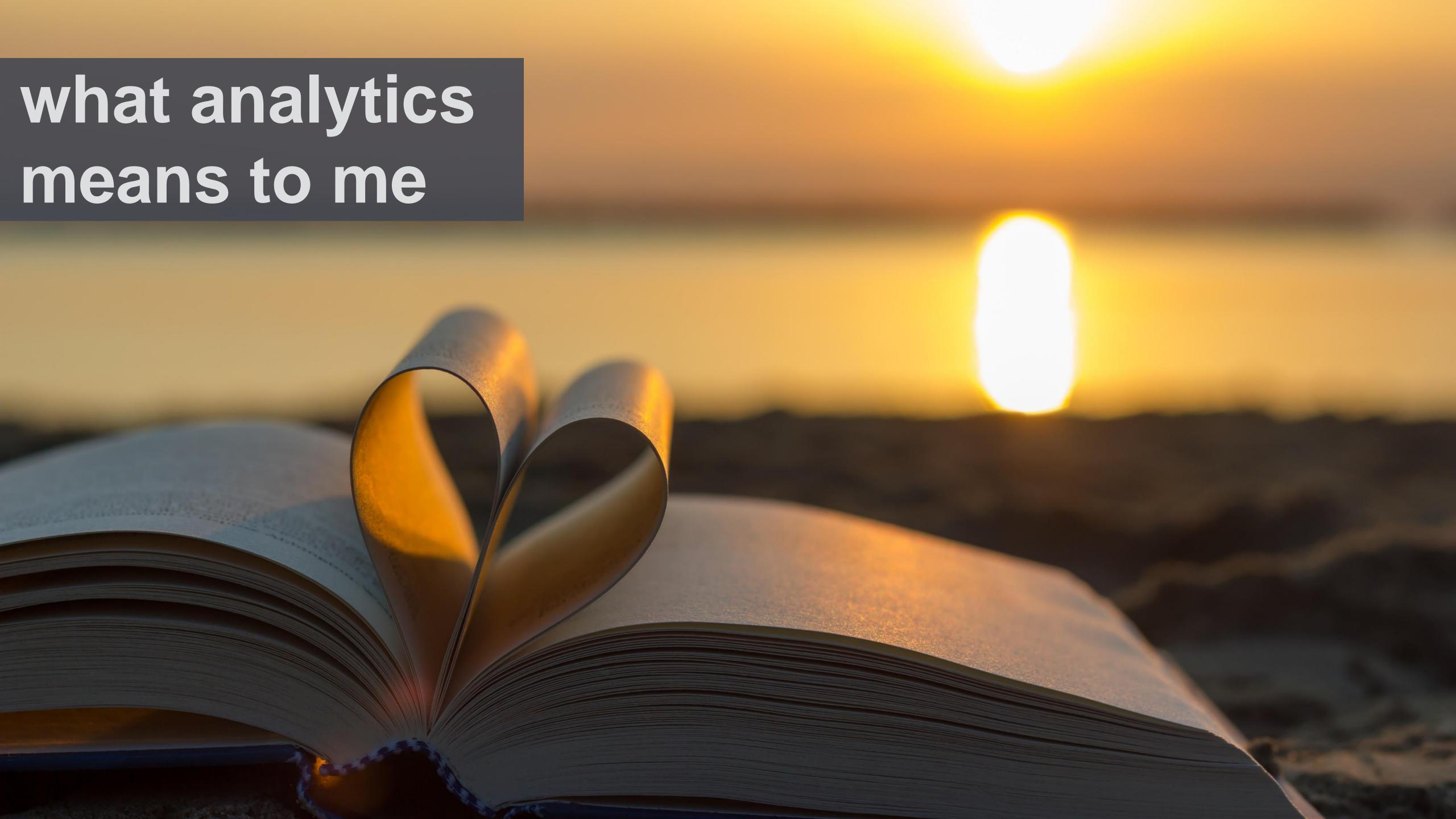
JasonHarper.com

jason harper

Jason is the founder and CEO of RXA, Ilc (www.rxa.io), an Ann Arbor, MI based data and analytics company. He has earned an MBA from the University of Michigan's Ross School of Business, as well as Master's (EMU) and Bachelor's degrees in Economics (U of M).

Prior to founding RXA, Jason created and lead the analytics practice at FordDirect and the Marketing Intelligence Group at Organic, inc. Jason has held analytics leadership positions at several advertising agencies and brands and has worked across a variety of industries from Hilton Hotels and Chrysler to Hasbro and U by Kotex.

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colonoid:
$$L = \frac{1}{N} \frac{\Delta N^2}{\ell} = \frac{\mu_0 A N^2}{\ell} = \frac{Mm}{\ell^2} = \frac{mg}{2\pi T}$$
 $c_n = \int \psi_n(x)^* f(x) dx$

colonoid: $L = \frac{Mm}{N} \frac{\Delta PE}{\Delta PE} = \frac{mgh(\text{small }h)}{\ell}, F = G \frac{Mm}{\ell^2} = \frac{mg}{2\pi T}$ $c_n = \int \psi_n(x)^* f(x) dx$

$$= \frac{1}{N} \frac{\partial}{\partial x} \sum_{n=1}^{N} \frac{\partial}{\partial x} \frac{\partial}{\partial x} \sum_{n=1}^{N$$

This is you.



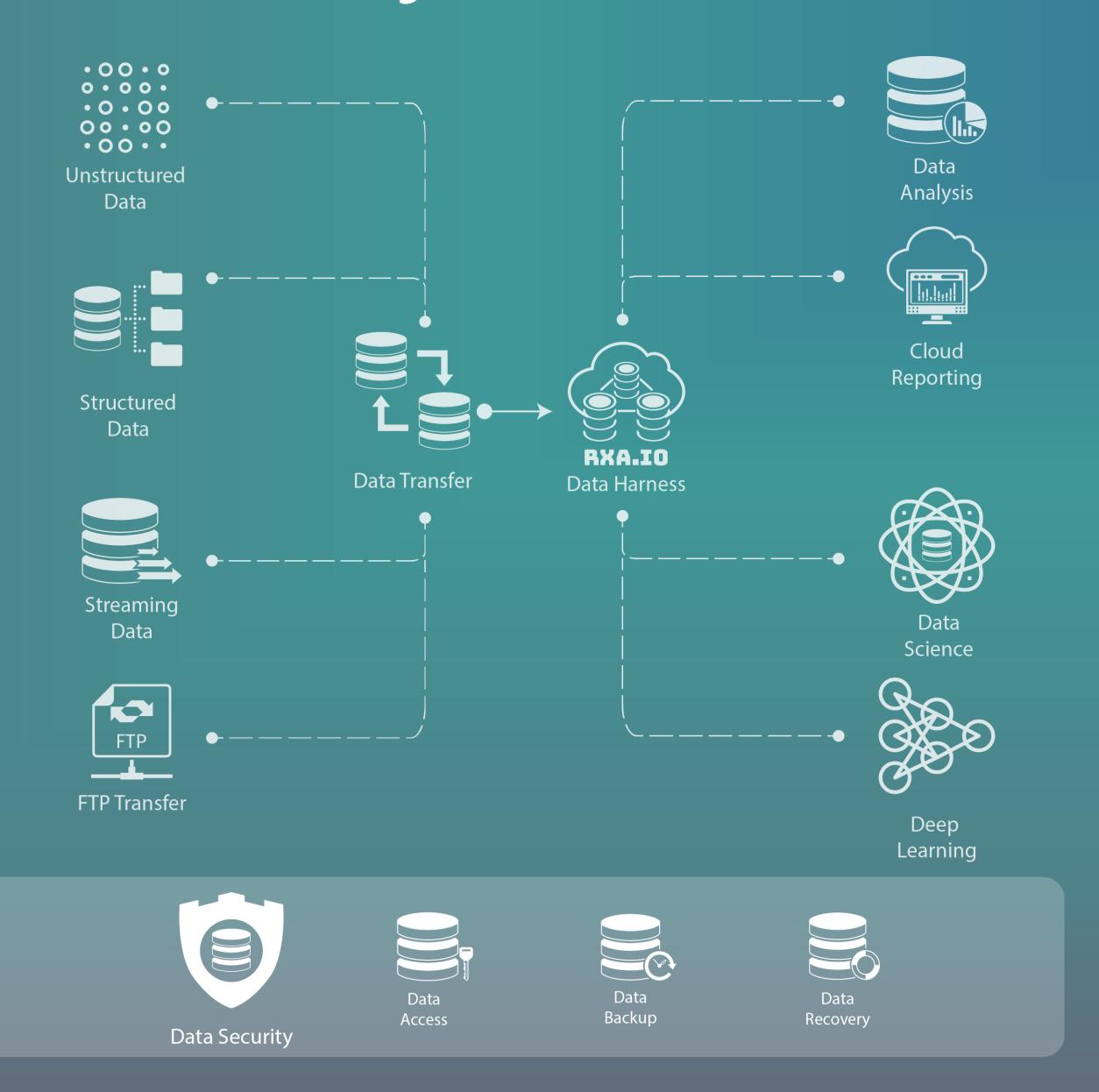






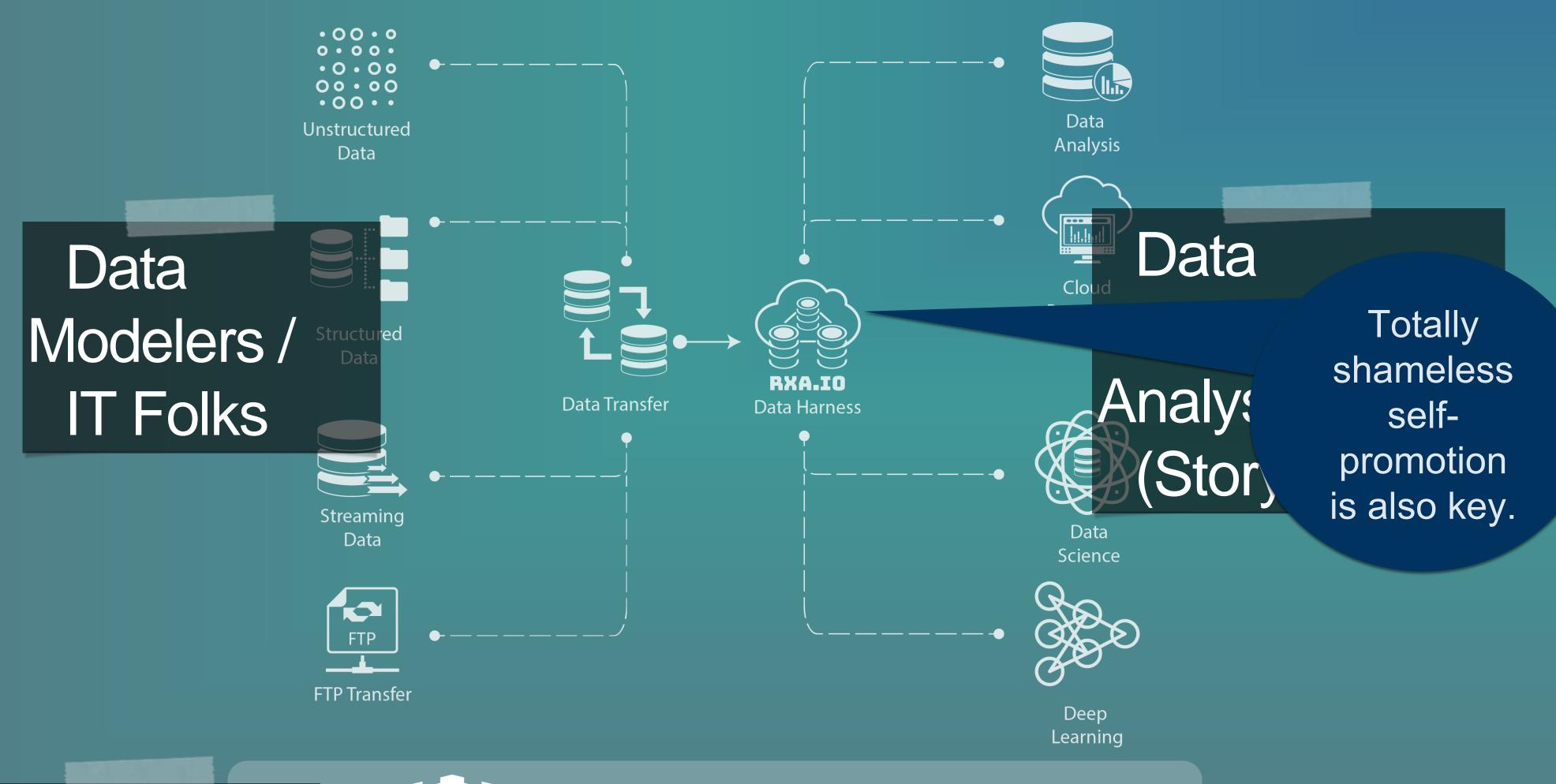


The Analytics Platform





The Analytics Platform



These are the real nerds...
until something goes
wrong... then heroes

harness your data™







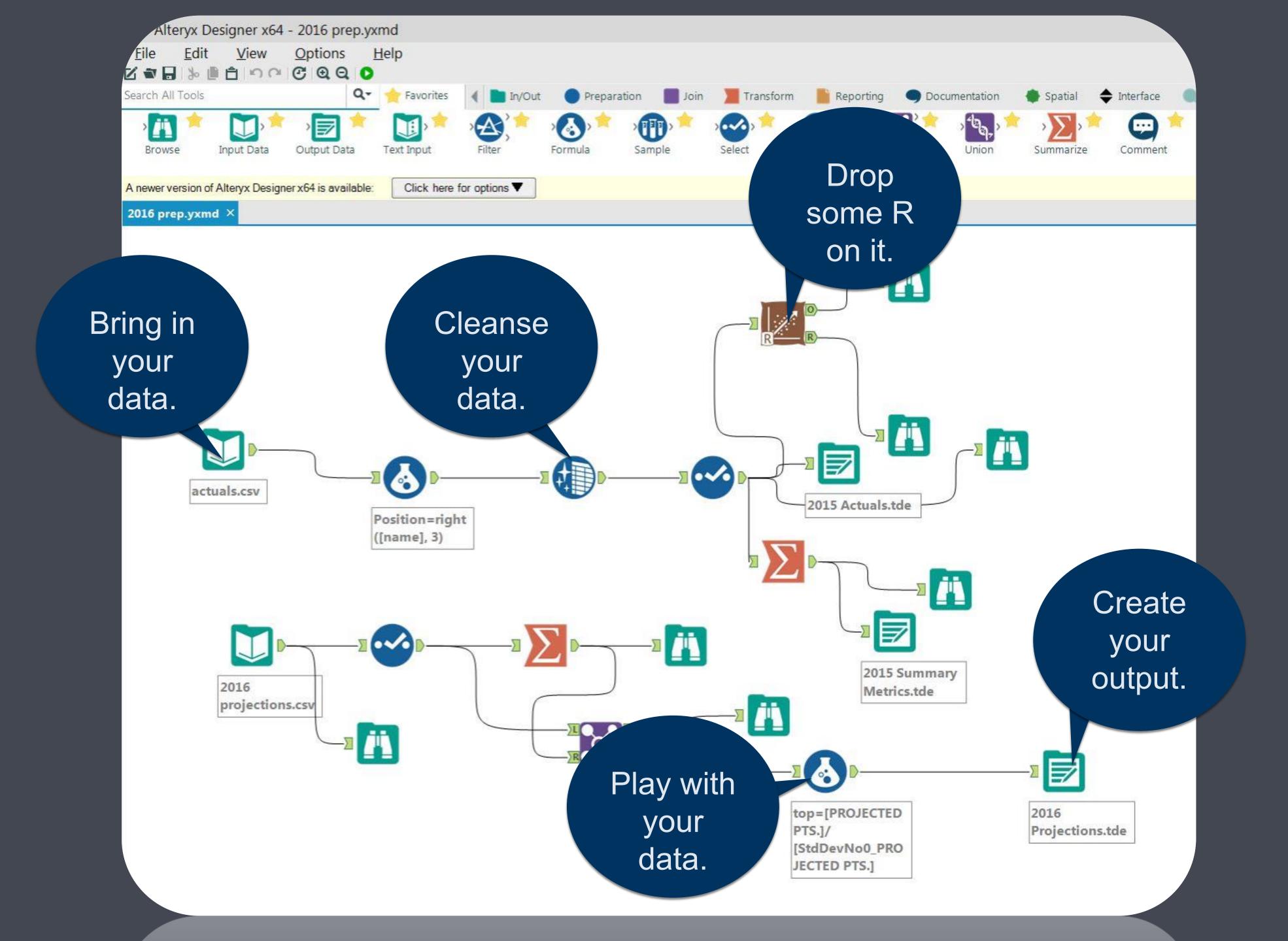


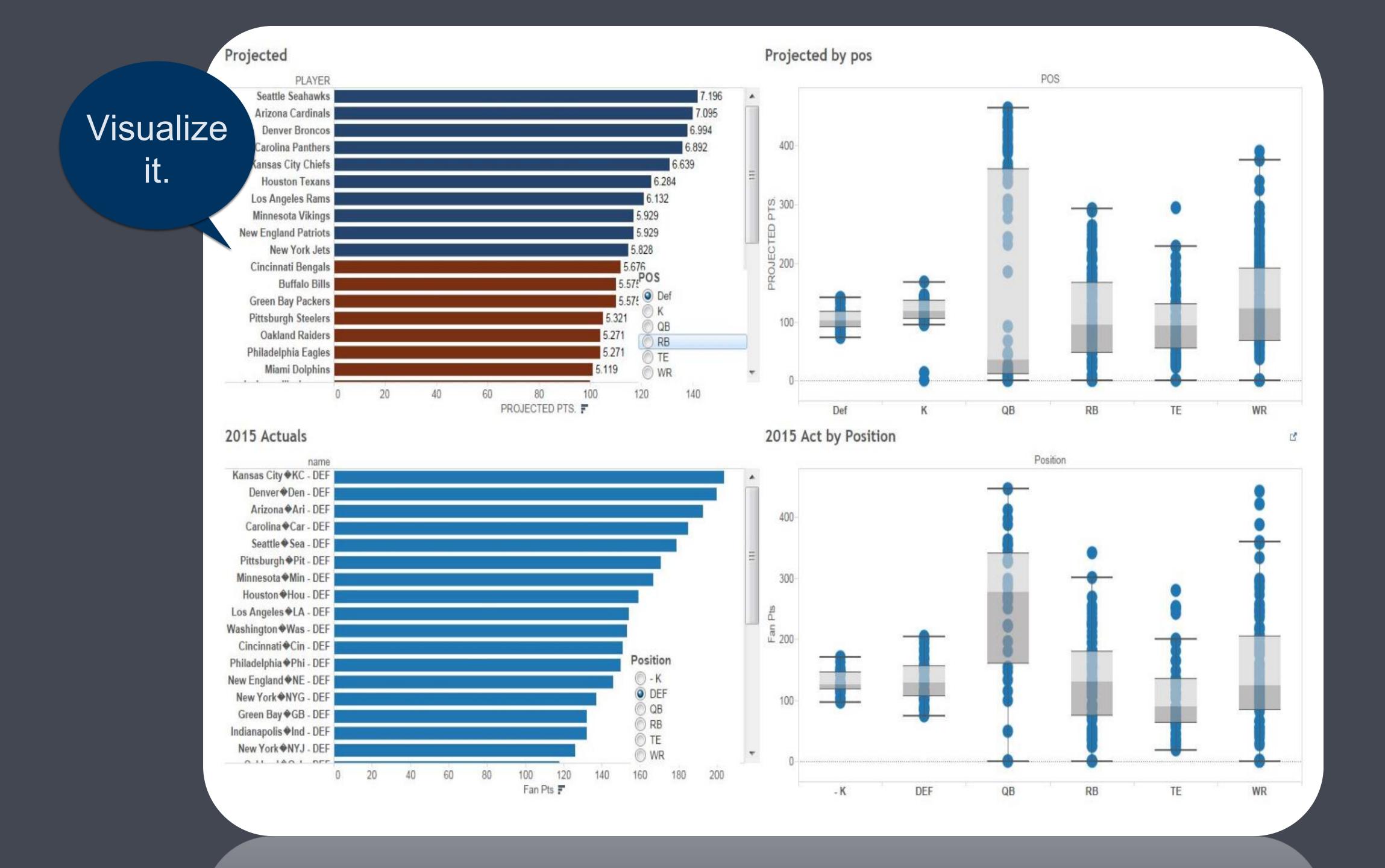
CASE STUDIES

"the guy with the most data wins"

-Tim O'Reilly, Silicon Valley "oracle"

alteryx





Standings	G	et				Current Standings ~		
Standings Sche	dule resu	ults.						
Rank Team		W-L-T	Pts For	Pts Agnst	Streak	Waiver	Moves	
*1 🍘 Frank	s Tanks	11-1-0	1732.38	1447.98	W-6	10	17	
*2	king Ball	9-3-0	1592.56	1445.52	W-2	9	3	
*3 Pack	Attack	8-4-0	1562.78	1377.08	W-5	8	3	
4 S Lucky	Louies	6-6-0	1592.66	1618.32	W-3	7	16	
5 🚱 Yanni	Football	6-6-0	1567.76	1560.88	W-1	6	7	
6 🚺 He Ha	ate Me	6-6-0	1544.92	1445.88	L-1	12	29	
7 S Mook	ie	6-6-0	1498.60	1392.42	L-1	5	15	
8 🌑 Starte	ed As TE Now WR	5-7-0	1483.30	1585.12	L-3	11	18	
9 🕴 Groot	GruxKing	4-8-0	1476.04	1513.32	L-4	4	19	
10 S Called	d Well	4-8-0	1423.14	1587.02	L-2	3	3	
11 The F	ighting Emus	4-8-0	1234.18	1482.58	W-1	2	14	
12 🚱 Rock	of the Marne	3-9-0	1203.38	1455.58	L-3	1	-	

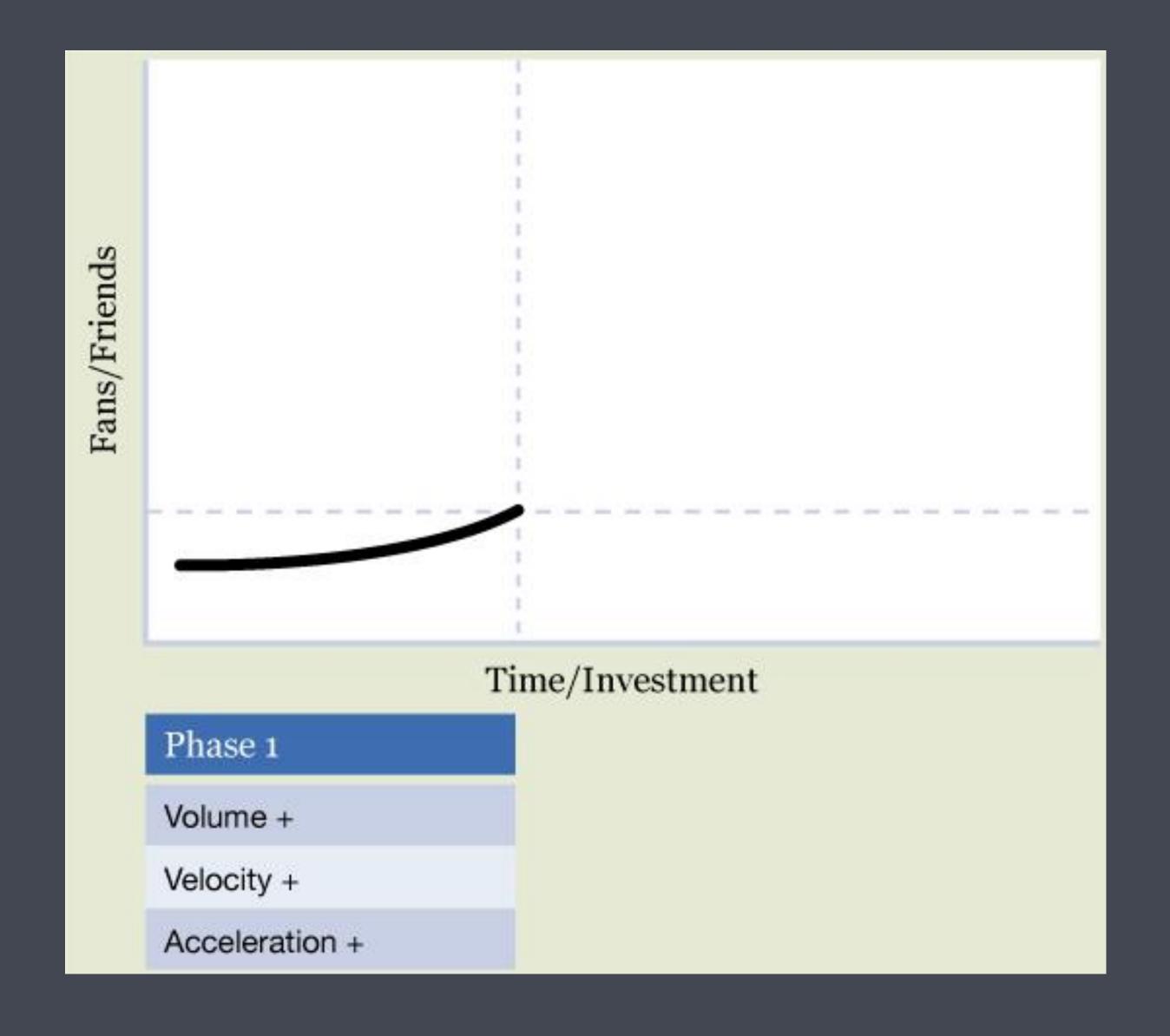
Playoffs locked 4 weeks out, first round bye locked 2 weeks out.

Highest point total (1,732), by over the weekly average point total... I've scored more points in 11 weeks, than most teams score in 13-14.

Last standings update: Wed Nov 30 04:12am EST* = clinched playoff spot

Brand Conversations

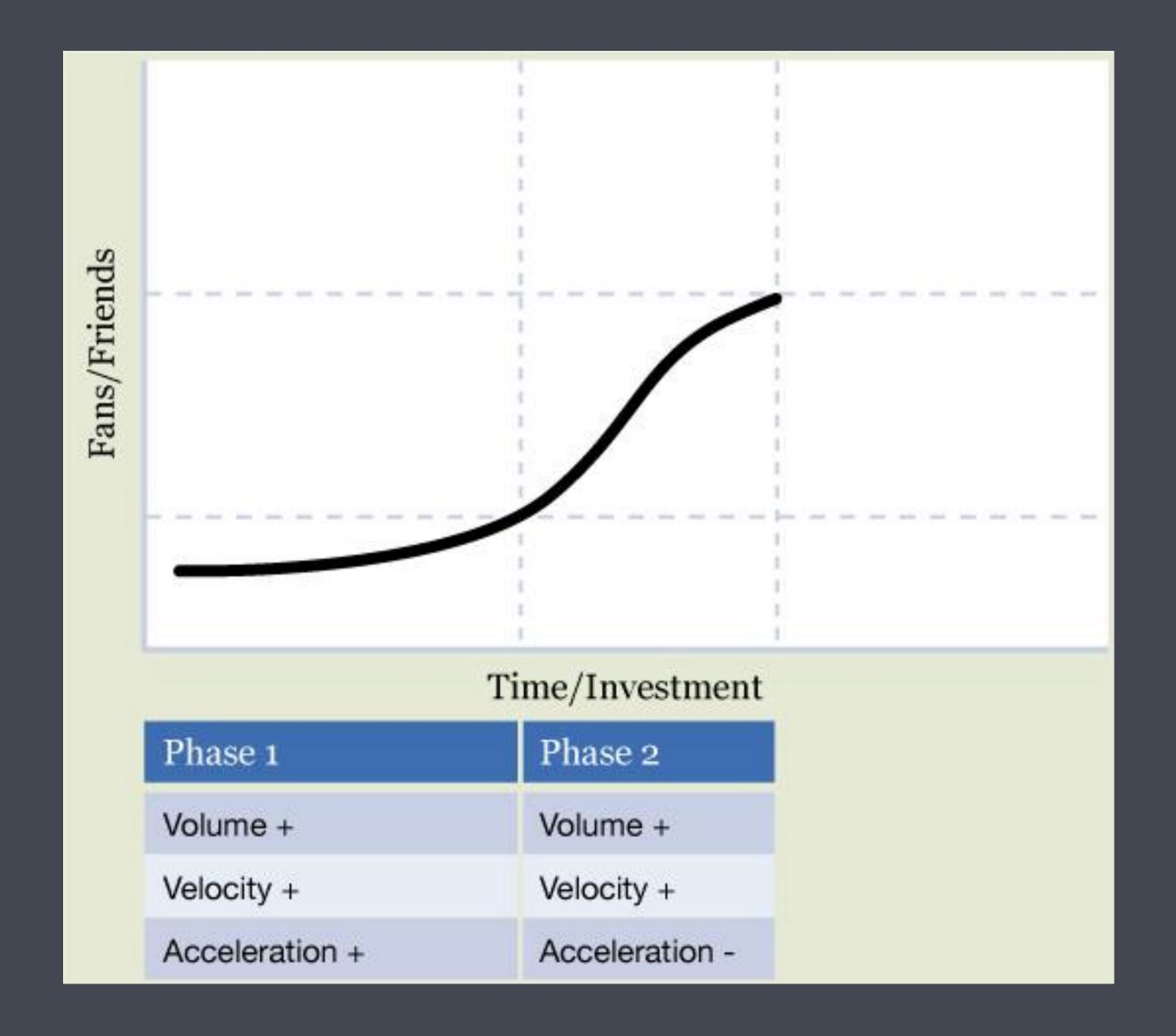
Velocity and Acceleration in Social Media



The 'hot' zone represents that place in which we see the velocity for the increase in activity quickest; this then represents the area where our campaign must be most efficient.

Additionally, this curve will show us the impact that incremental changes in investment will make against the reach in a lower funnel effort.

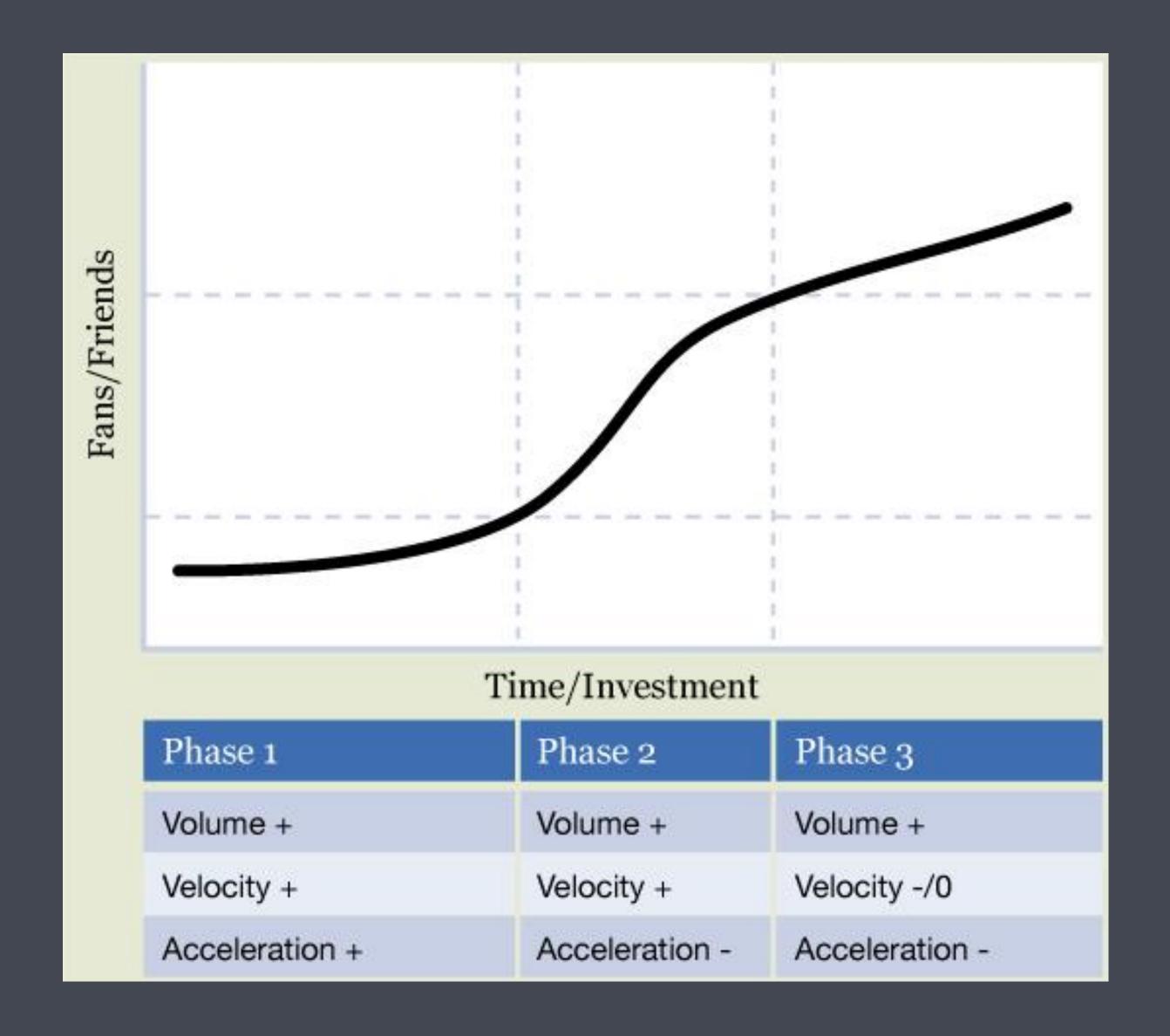
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Velocity and Acceleration in Social Media



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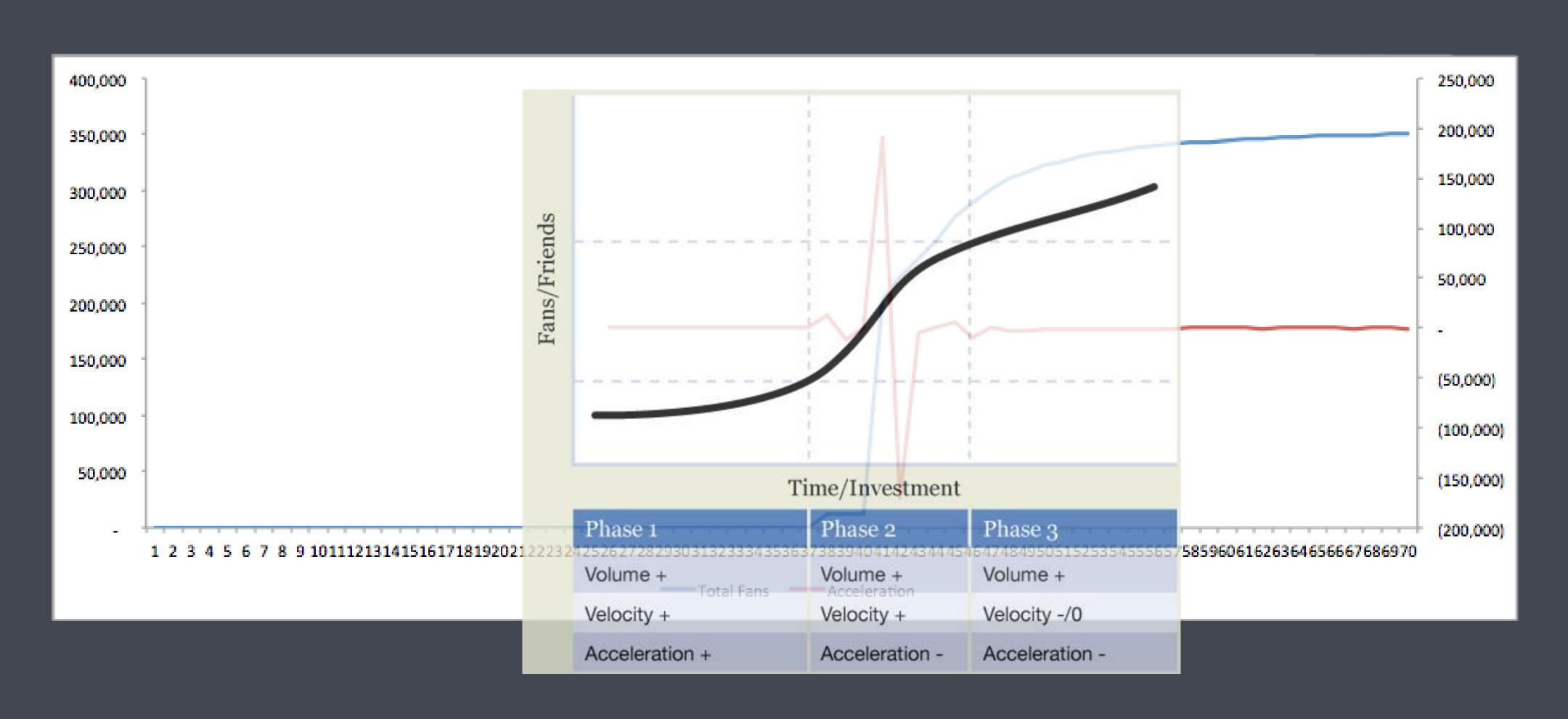
Additionally, this curve will show us the impact that incremental changes in investment will make against the reach in a lower funnel effort.

$$f\left(\frac{Baseline}{Acceleration}\right) = \frac{Baseline}{Ceiling}$$

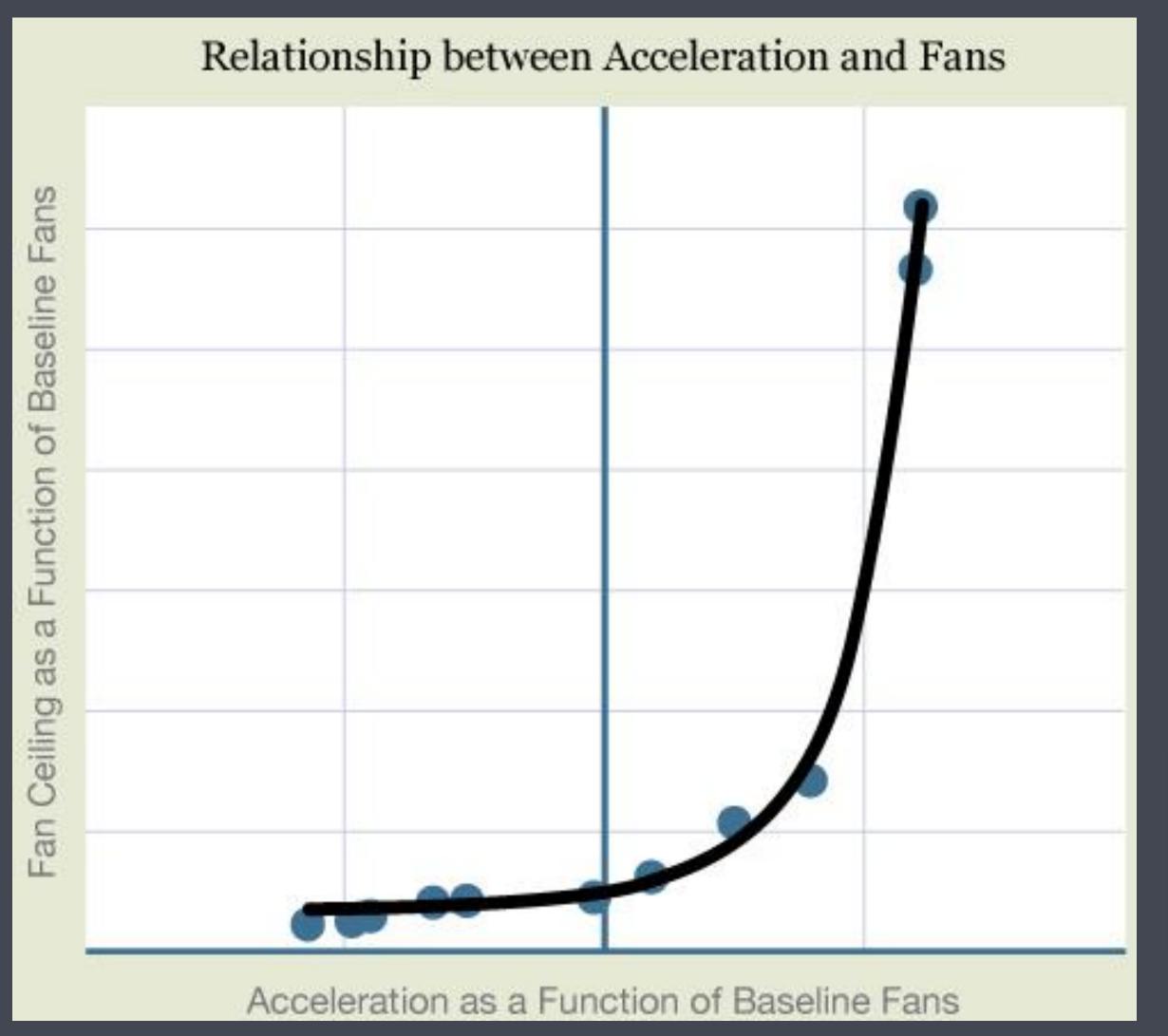
The ratio of the initial shift compared to the baseline is related to the ratio of the baseline to the ceiling.



We looked at several fan pages' data with widely varying numbers of fans



Understanding the Relationship



Understanding this relationship allows Marketing Managers:

To accurately forecast whether fan page levels will reach their goals, and make adjustments accordingly if it is determined it will fall short

To monitor the online conversation for complaints and provides information as to which issues are big and which aren't

$$f\left(\frac{Baseline}{Acceleration}\right) = \frac{Baseline}{Ceiling}$$



Shake the Tree

Shine the Light

Give voice to women and KOTEX

Enable Dialog

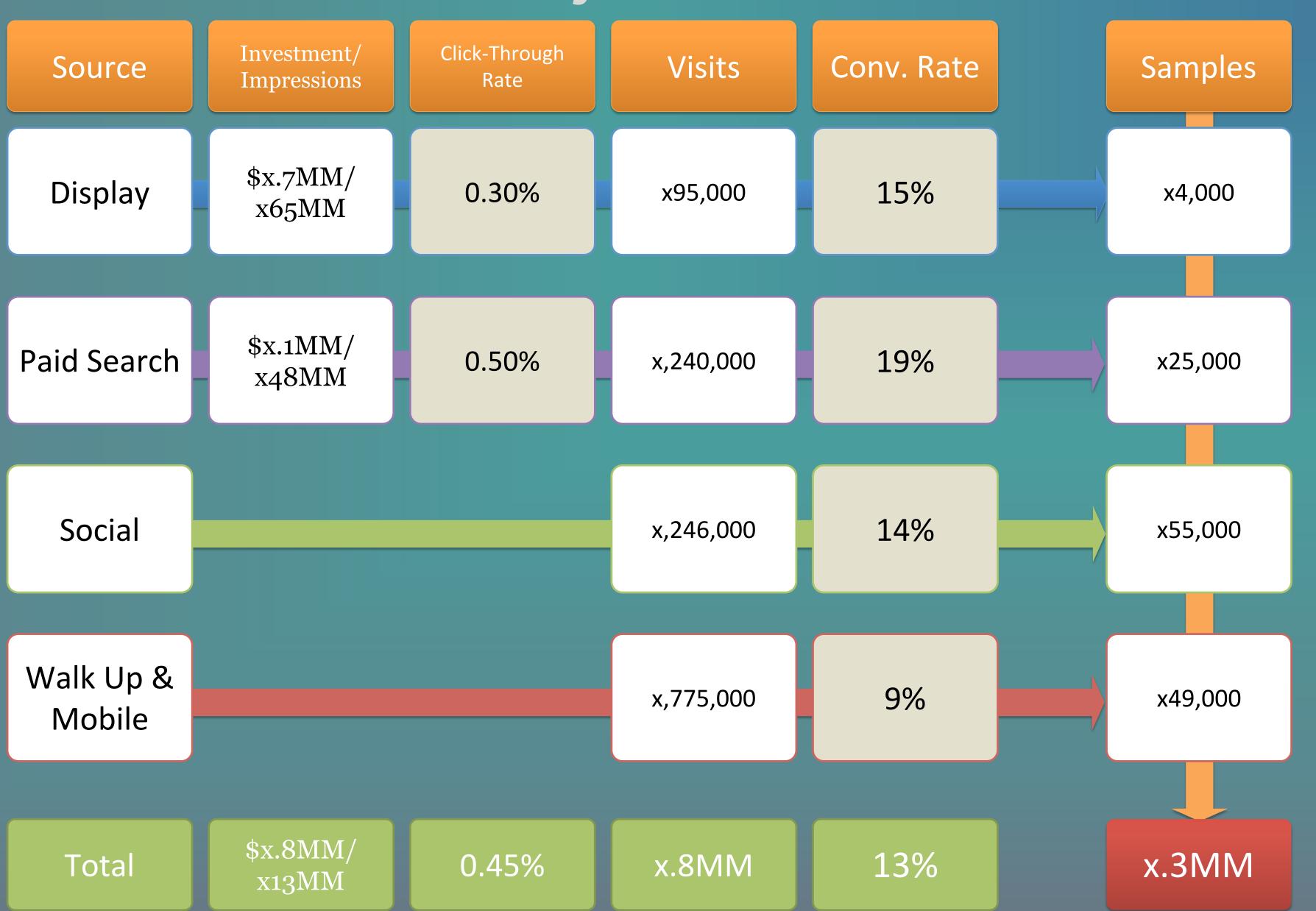
How are we going to make this happen?

What do we create?

Enable Connection to love and buy us Provide Reason to Change

What should we build?

Business Objectives



GET REAL

REAL ANSWERS

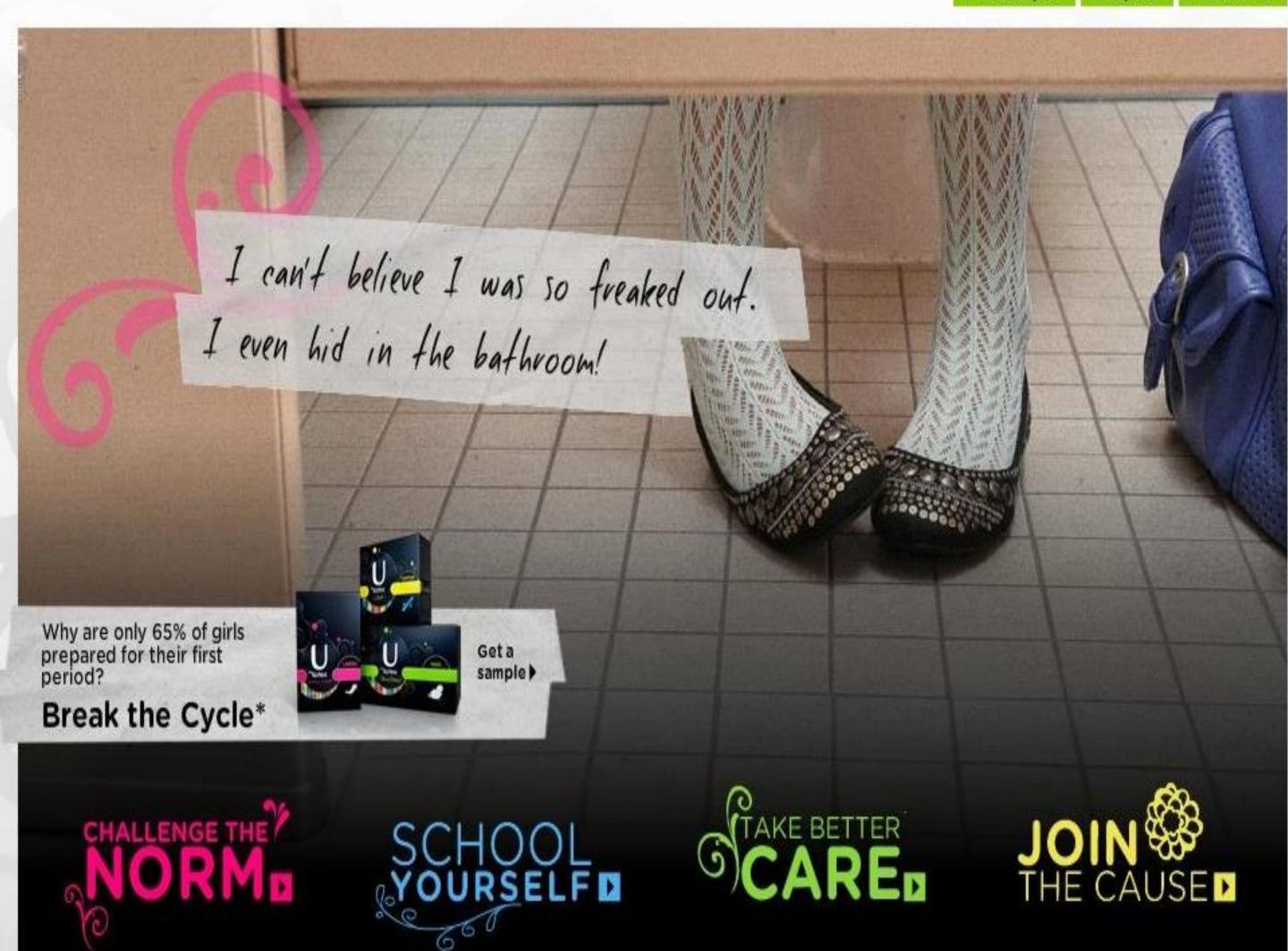
PRODUCTS

THE MISSION



SEARCH

Free Samples Coupons Find Stores





SEARCH

Free Samples

Coupons

Find Stores

Sign up and get these U by Kotex* freebies:

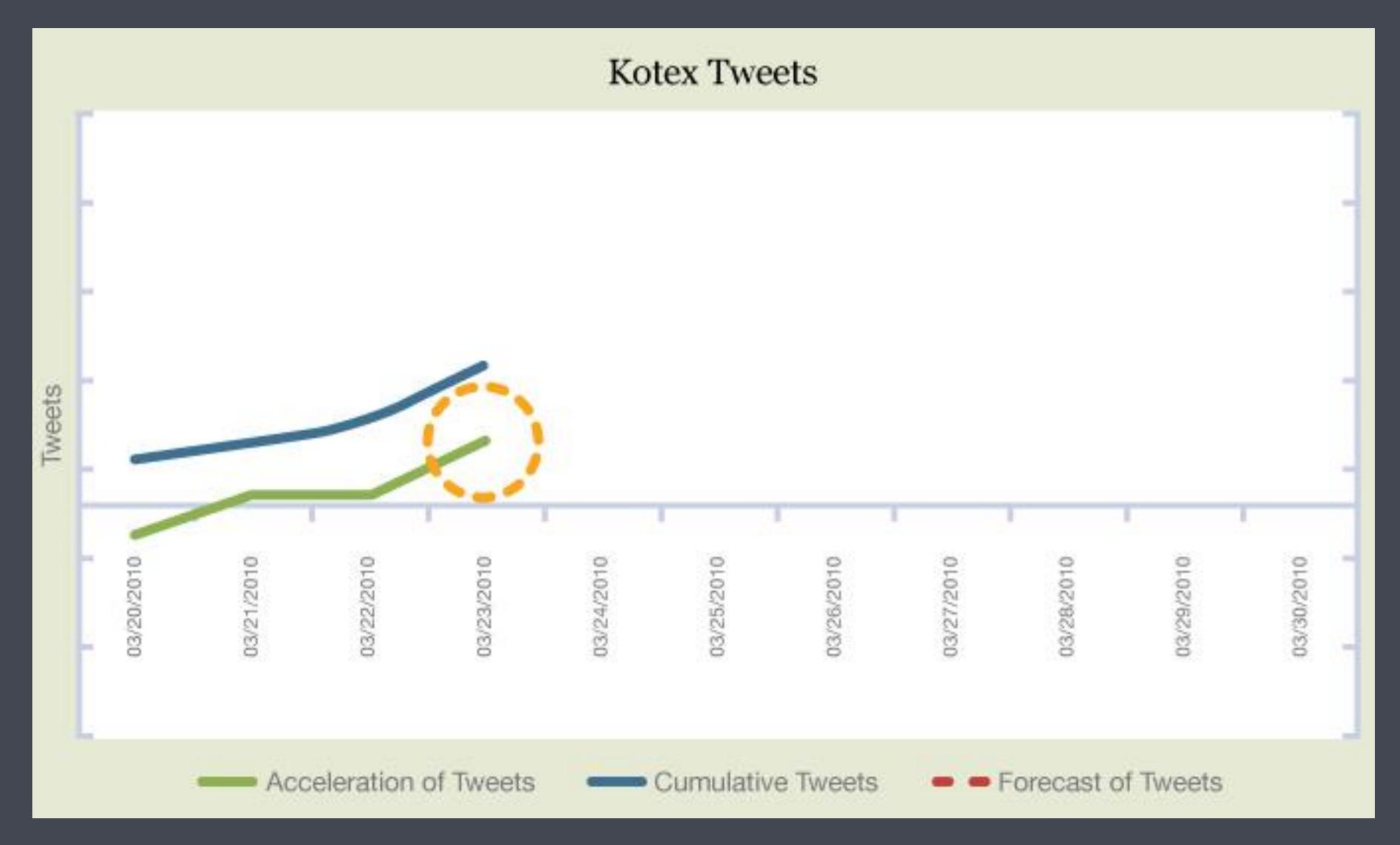


Your sample package will include:

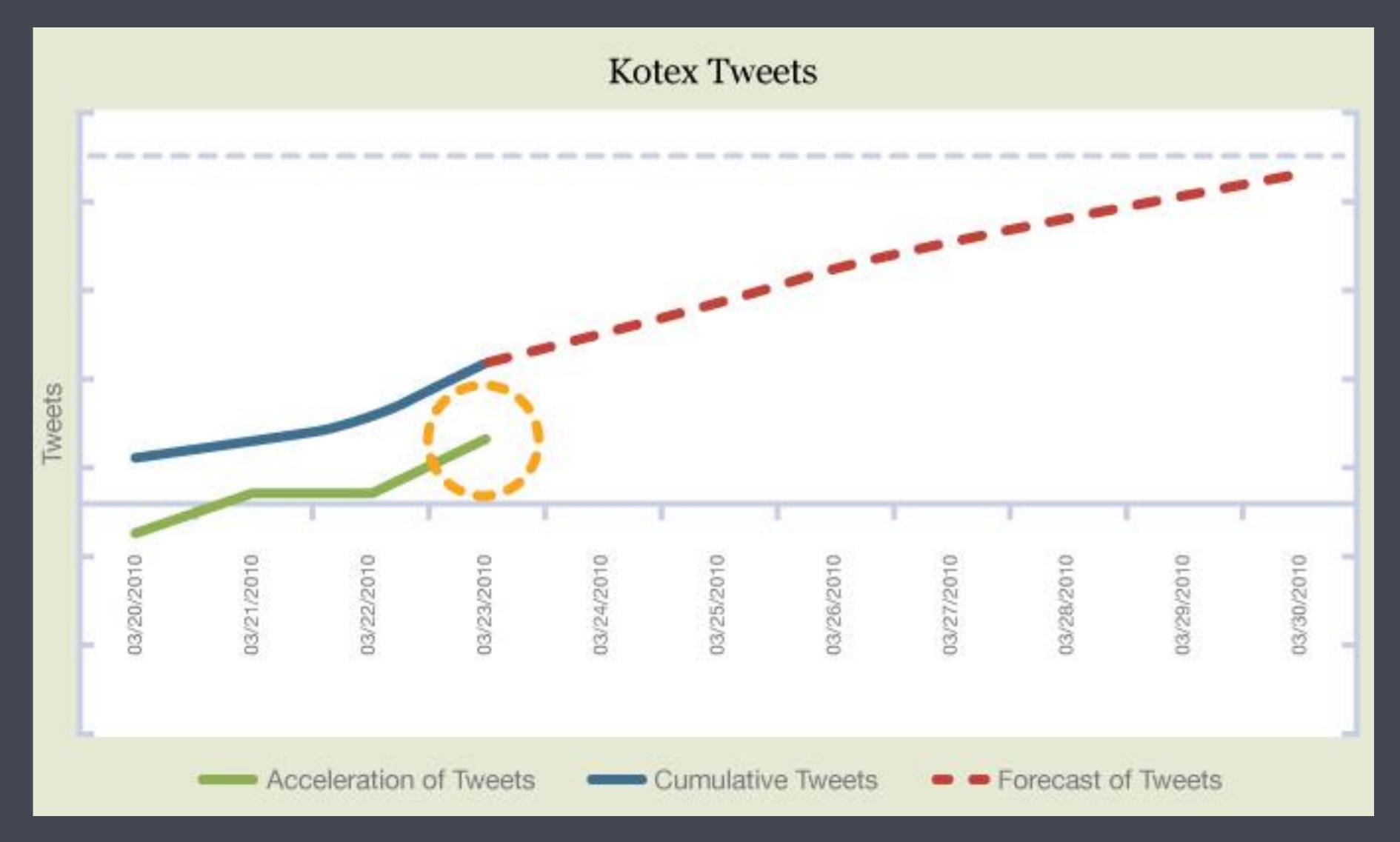
- (1) U by Kotex* CleanWear* Regular Pad
- (1) U by Kotex barely there* Liner
- (2) U by Kotex Click* Regular Tampons

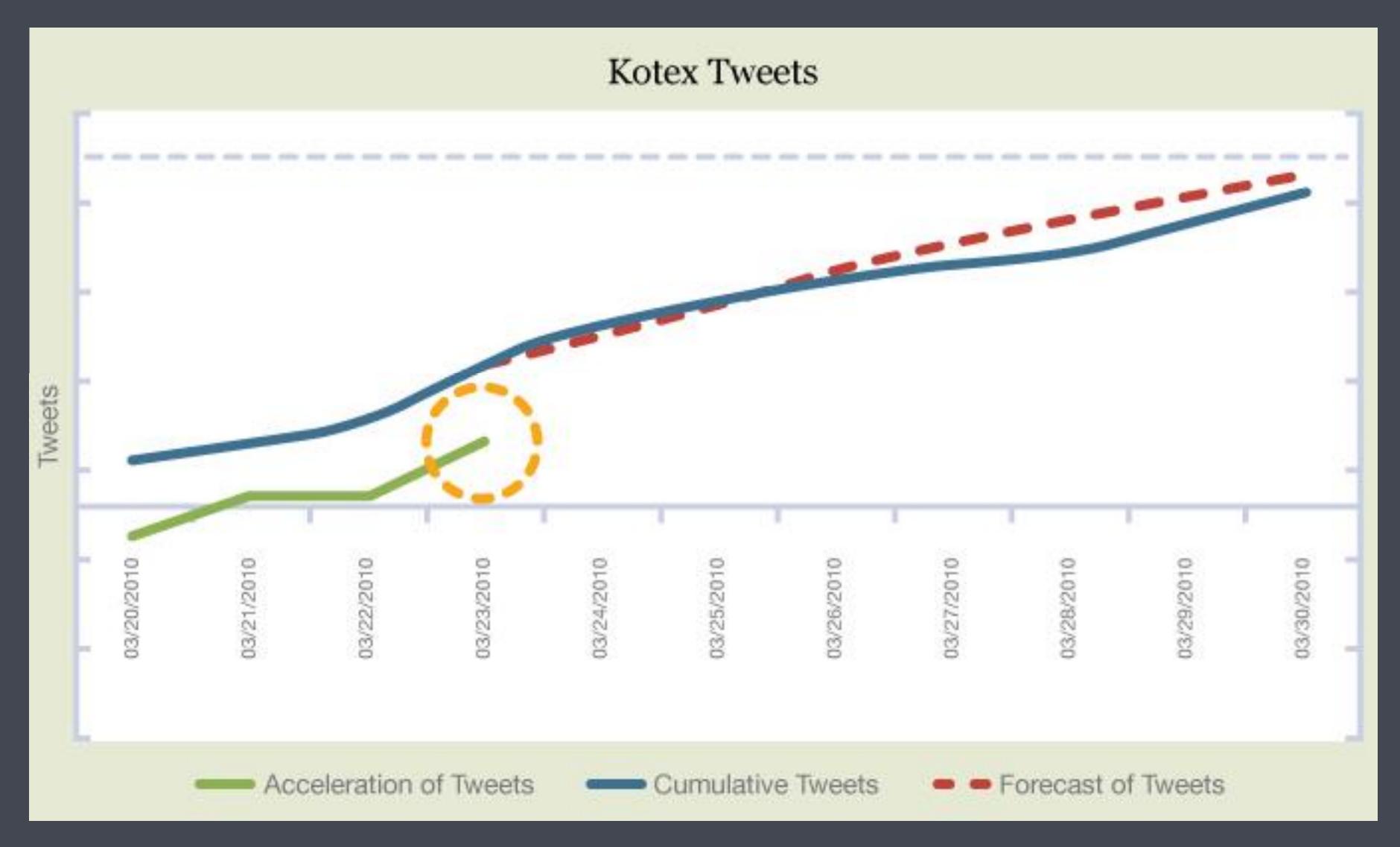
Canadian residents: English | Résidents du Canada: Français YOUR INFORMATION **First Name Last Name** Address Apt, Suite, Unit, etc. City Zip Click to Select State E-mail Address Female Male Gender Date of Birth Month 💠 Year 💠 Day PRIVACY POLICY Submit > *Required While supplies last. Please allow 10 weeks for delivery. Available to U.S. residents only in continental U.S. You must be 13 or older to receive this sample. Limit two samples per household. Your privacy is important to us. Please click here to view the Kotex® Privacy Policy.

UbK's Acceleration



Forecasting Tweets Based On Acceleration





"The model helped Kimberly Clark Optimize its media spending,

product placement and website features **in real time**, in an effort to reach its ambitious goal. 'Organic's Velocity and Acceleration model helped us project the plateau level of tweets following the U by Kotex launch,' says Aida Flick, the Kotex brand director at Kimberly-Clark. 'From there, we were able to tie in the relationship between the tweets and the sample requests.'"

MIT Technology Review
"A New Model for Predicting Social-Media Impact"
Wednesday, October 20, 2010









thank you.

jason harper | jason@rxa.io



www.rxa.io



learn@rxa.io



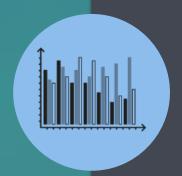
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appendix





Churn Prevention
Customer Life Time Value
Customer Segmentation



Cross-Sell and Up-Sell
Next Best Action
Product Propensity Models



Take advantage of the new and expanding world of digital data to understand your business like never before. Uncover patterns and discover relationships to make better and faster decisions. Learn what it means to win by failing fast and optimizing your system to propel you past your competition.



Utilization Modeling Risk Analysis Quality Assurance

Churn Prevention Customer Life Time Value Customer Segmentation

Customer Analytics

Predict which customers are at high risk of defecting, and those that are high value.

Identify customer issues and understand the most efficient ways to address them.

Happy customers are less likely to churn and more likely to increase their spending.

Implementing targeted satisfaction and retention programs is a very cost effective way to impact revenue.



Cross-Sell and Up-Sell Next Best Action Product Propensity Models

Marketing Analytics

Get the right products with the right offer in front of the right customer at the right time.

Your customers are happy when you give them what they want.

Increase your share of their wallet, satisfaction and loyalty by giving them what they want.

Drive efficient growth in your business.



Utilization Modeling Risk Analysis Quality Assurance

Efficiency Analytics

Understand the factors that drive utilization of your fixed resources.

Identify areas of opportunity and predict the impact of taking action.

Identify quality issues early, and address them before they become an issue.

Predict threats to your business and pro-actively take measures to avoid financial losses.

Predict price movements and economic developments that affect your business and may weaken your position in the market.





Single source of truth and single location to look. During the data collection process, business rules are applied and the data is tested for quality and integrity. Ensuring the organization is working together with the same, trusted, information.



Cross-Platform objectives, and holistic thinking reduce time spent gathering, and increase time spent analyzing. By having all your key information in a single reporting solution, systemic bias and human errors are greatly reduced.



Cross-Platform Business Intelligence



When all the relevant performance information is collected in one location, managers can spend their time where they should...optimizing the business.

Cloud Reporting Systems are designed to visualize the data you have brought together; to optimize the system, not just the parts.

Reporting systems are at their best when there is one, single source of truth. There is only one view of success, and everyone can access it.





Cloud Based Reporting

Your business is unique, and your reporting will be as well. It is driven by the choices you have made. Your objectives, your customers, your systems and providers.

What is not unique, is the need for it to be accurate and available to your managers when they are trying to make decisions.





