LESSONS ON DRIVING DATA SCIENCE AND ANALYTICS TRANSFORMATION

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MAY 23, 2019











A new style of IT emerging



Every 60 seconds



98,000+ tweets



695,000 status updates



11million instant messages



698,445 Google searches



168 million+ emails sent



1,820TB of data created



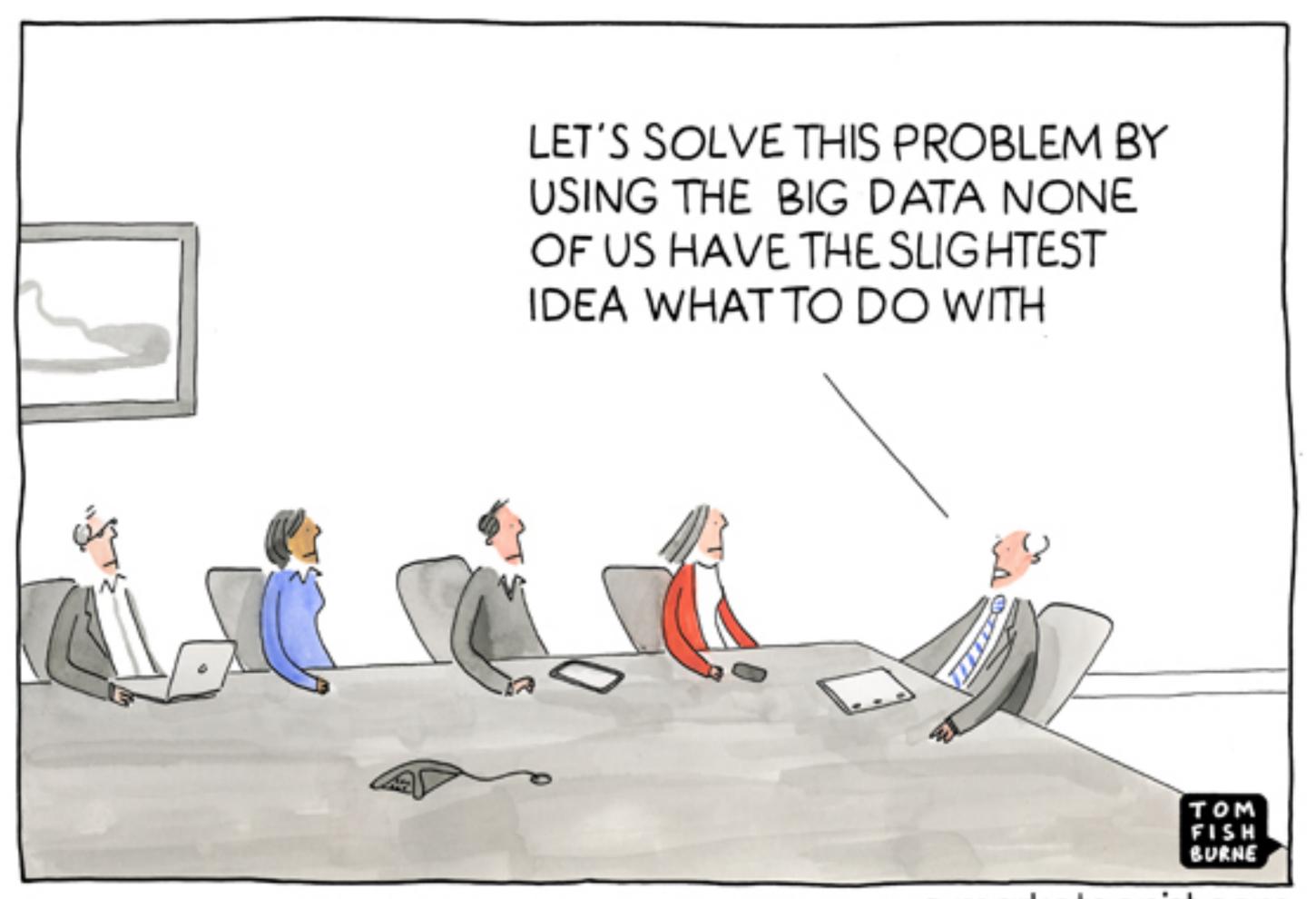
217 new mobile web users



217 new mobile web users

Source: HP Transforming IT Blog, August 2013

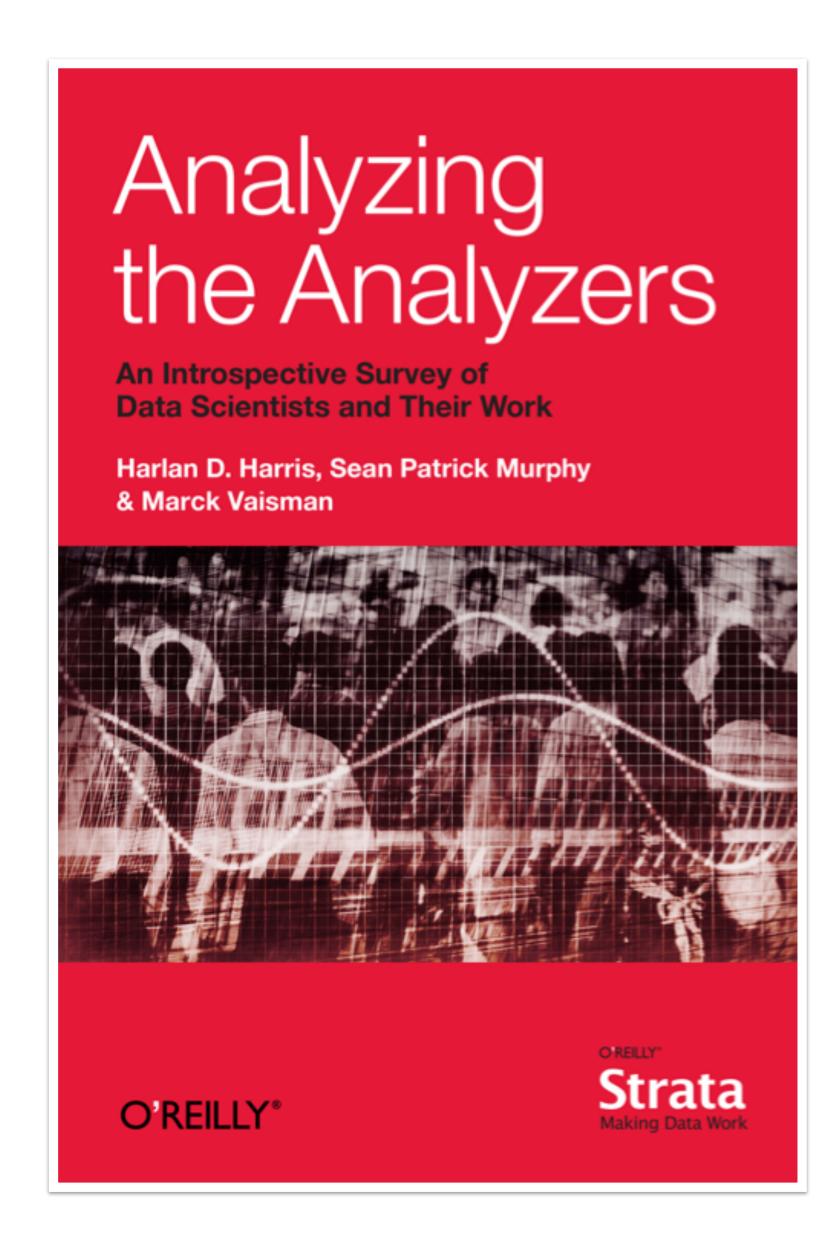
Amount of world's data analyzed



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Data Developer	Developer	Engineer	
Data Researcher	Researcher	Scientist	Statistician
Data Creative	Jack of All Trades	Artist	Hacker
Data Businessperson	Leader	Businessperson	Entrepeneur

Key Questions Addressed by Analytics

	Past	Present	Future
Information	What happened? (Reporting)	What is happening now? (Alerts)	What will happen? (Extrapolation)
Insight	How and why did it happen? (Modeling, experimental design)	What's the next best action? (Recommendation)	What's the best/worst that can happen? (Prediction, optimization, simulation)

Applications of Data Science and Analytics

Making Better Decisions

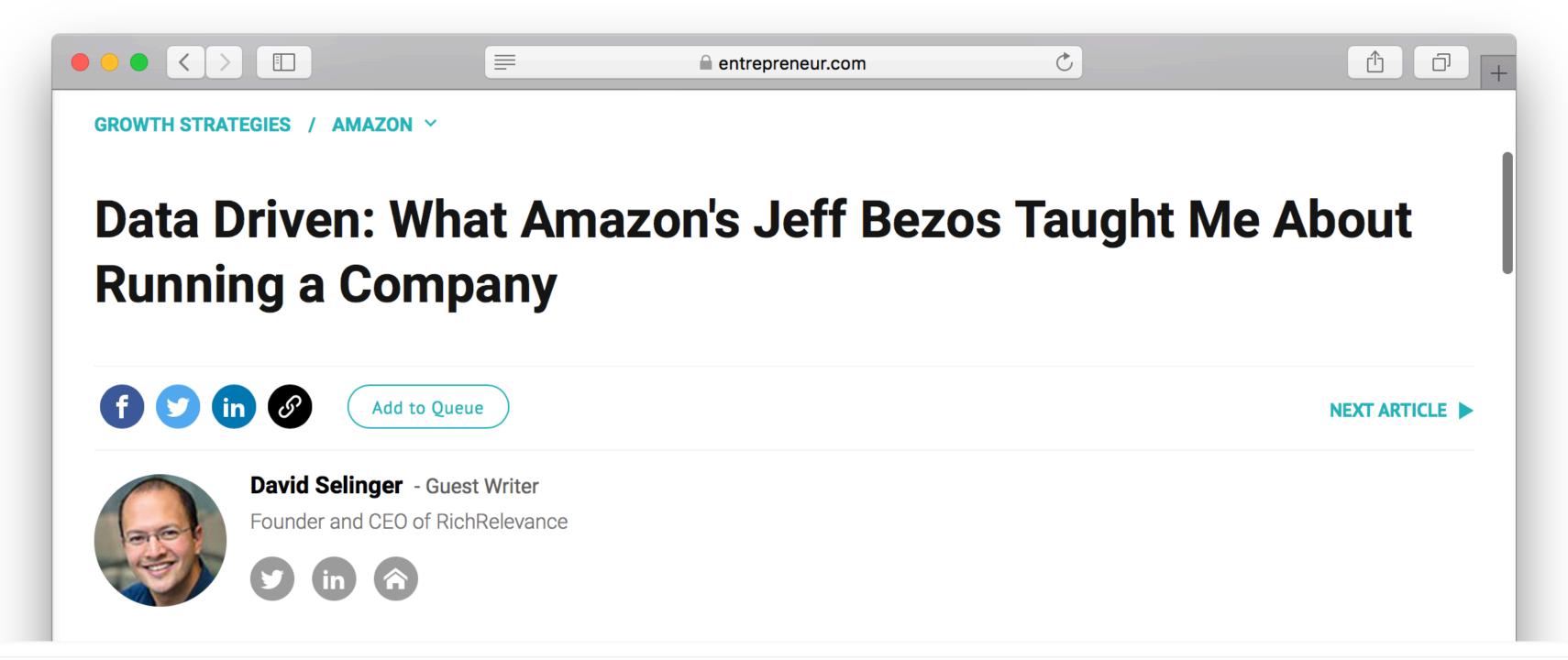
Measure, Experiment, Analyze

Powering Product Experiences

Design, Build

"The value of an idea lies in the using of it."

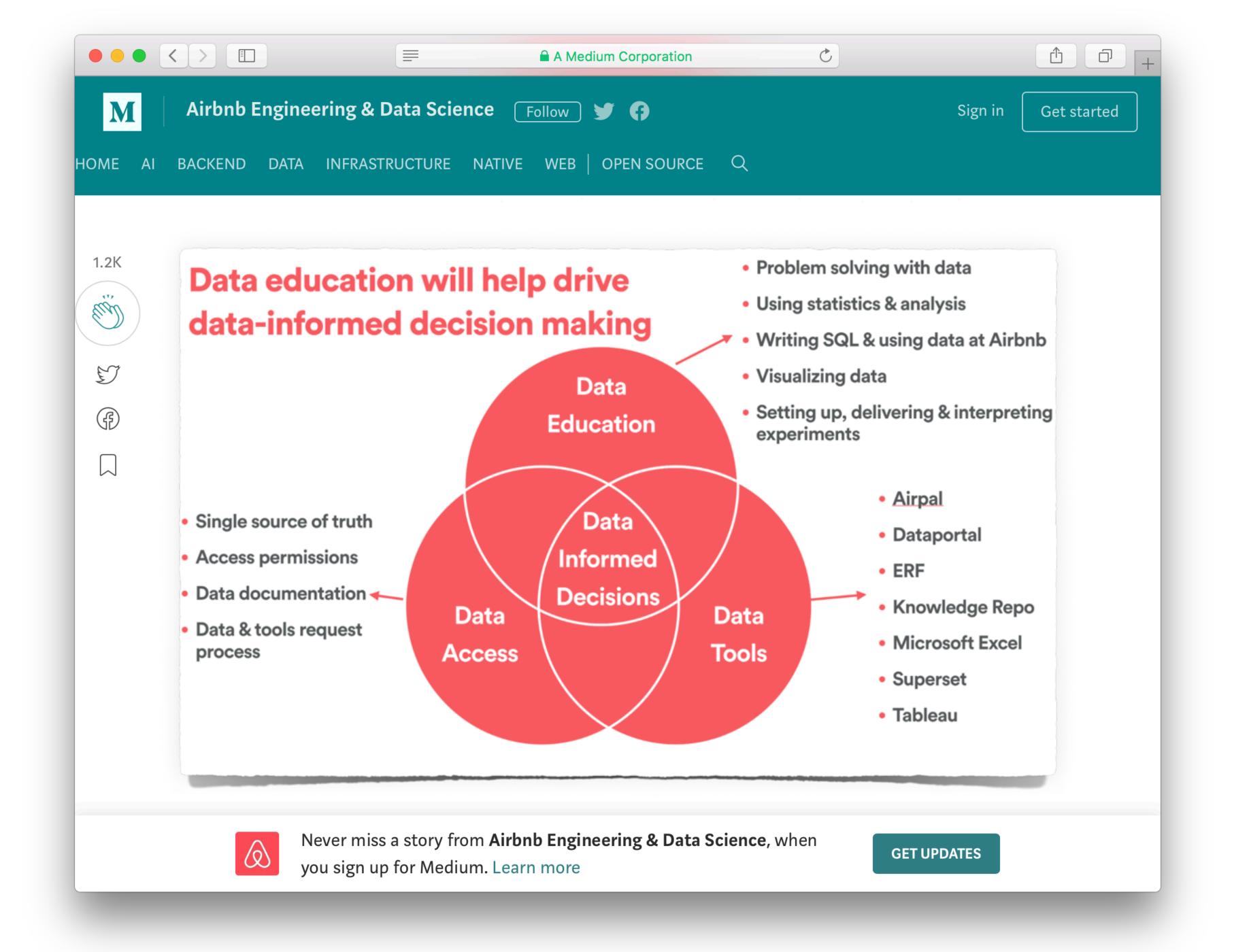
- Thomas Edison



2. Listening to data starts at the top. A data-driven culture is meaningless without the support of the CEO and executive team -- and their own willingness to challenge assumptions that they hold dear. A top-down approach is the only way to break the tyranny of the "HiPPOs" (Highest Paid Person's Opinions).

directly with Bezos himself.

Bezos tasked me with digging into Amazon's data to unearth new ways to grow the business. My team responded with three new data-driven systems that delivered a



Start at the top but build from the masses



EXPANDING PARTNERSHIPS























TRUE FIT











prolific interactive









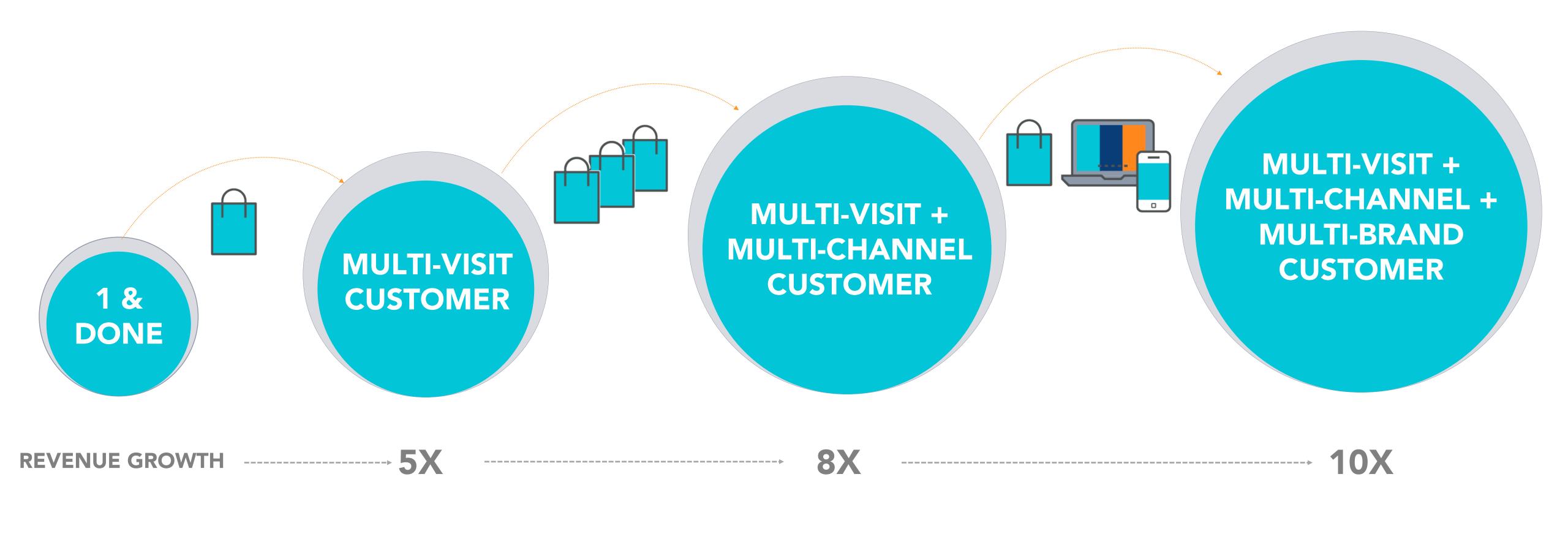
CUSTOMER 360

KNOWING OUR
CUSTOMERS BETTER
THAN THEY KNOW
THEMSELVES



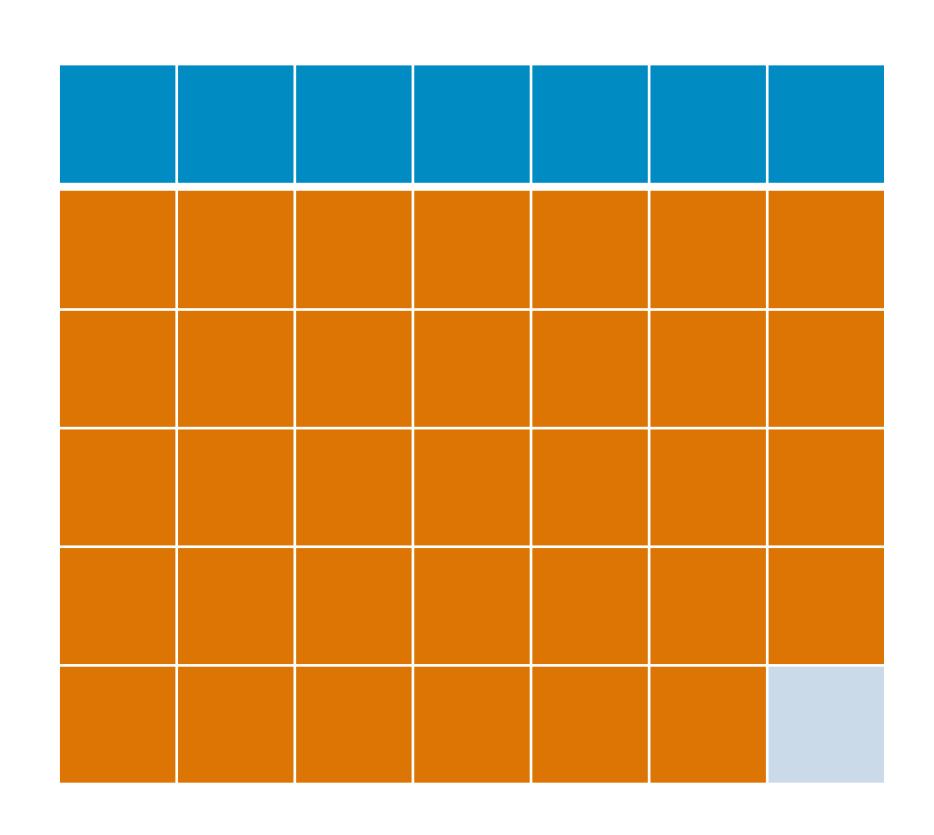
Leverage partners along the way

UNDERSTAND WHAT DRIVES ENGAGEMENT



INCREASED REVENUE + ENGAGEMENT

UNDERSTAND THEIR HABITS

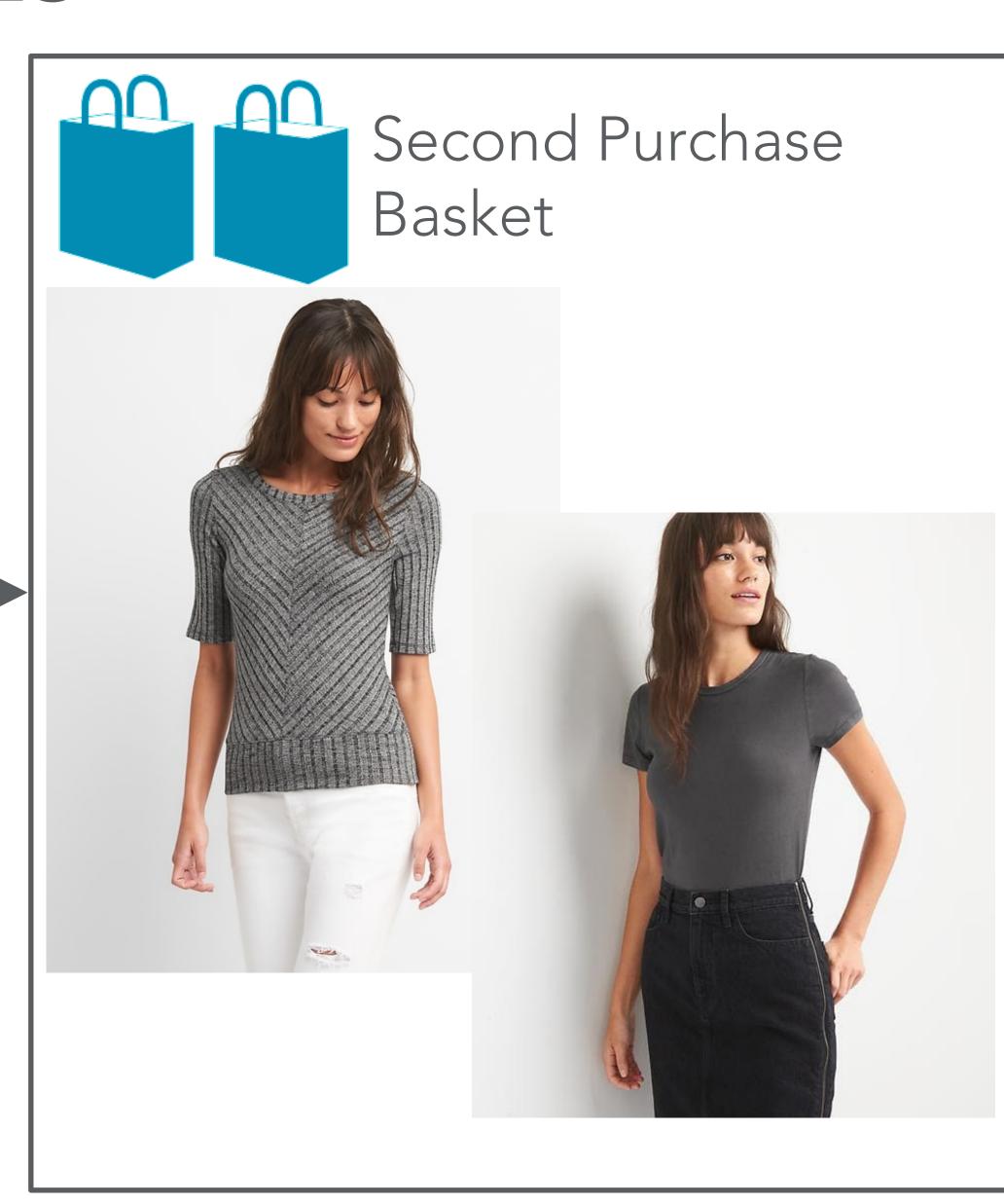


34 days

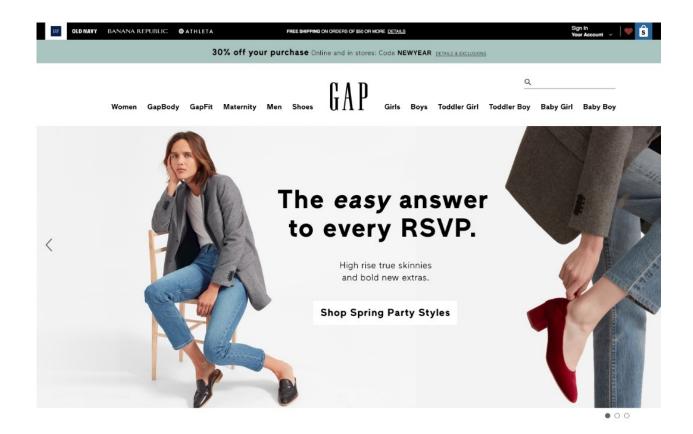
median time between 1X→2X

ANALYZE THEIR PURCHASES





TEST NEW COMBINATIONS

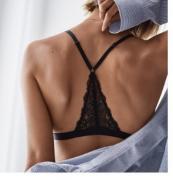








New Superdenim Our softest, stretchiest blues yet.

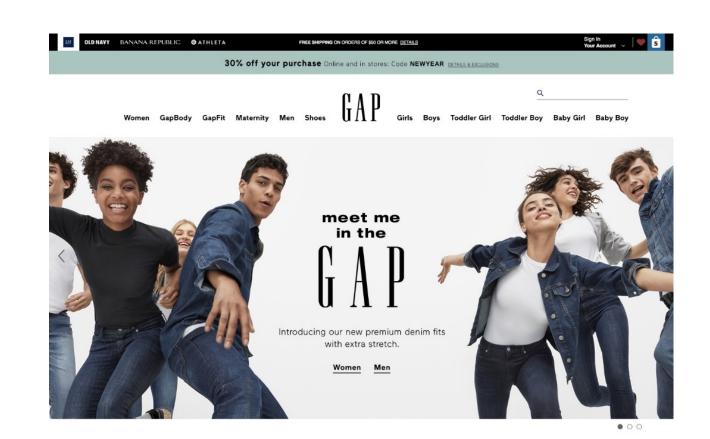


Love by GapBody It's time to fall in love with your first layer. Shop the Collection



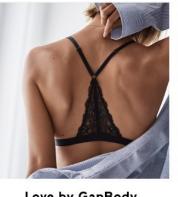
How we're improving factory working







Sculpt Denim Shop Sculpt Denim

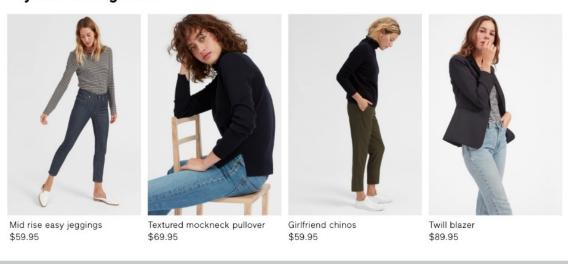


Love by GapBody It's time to fall in love with your first layer. Shop the Collection



Gap for Good Becuase we care about everything that goes into our denim. Learn More

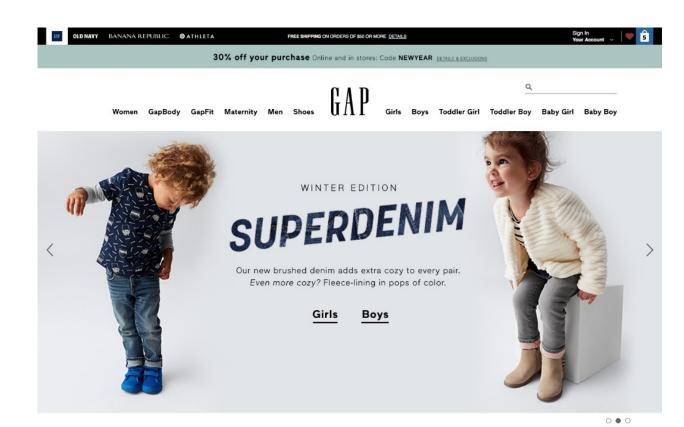
Try something new.





Gap Silver The most rewarding Gap experience.

Earn 5,000 points in a calendar year and enjoy Gap Silver status.





Just Arrived You deserve something new. Shop New Arrivals

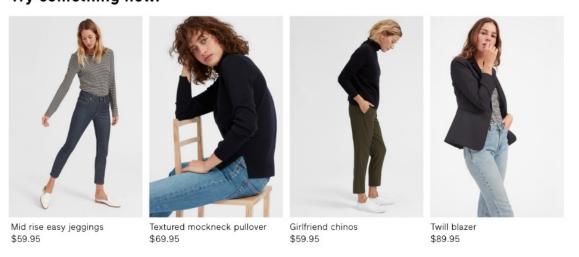


Love by GapBody It's time to fall in love with your first layer. Shop the Collection



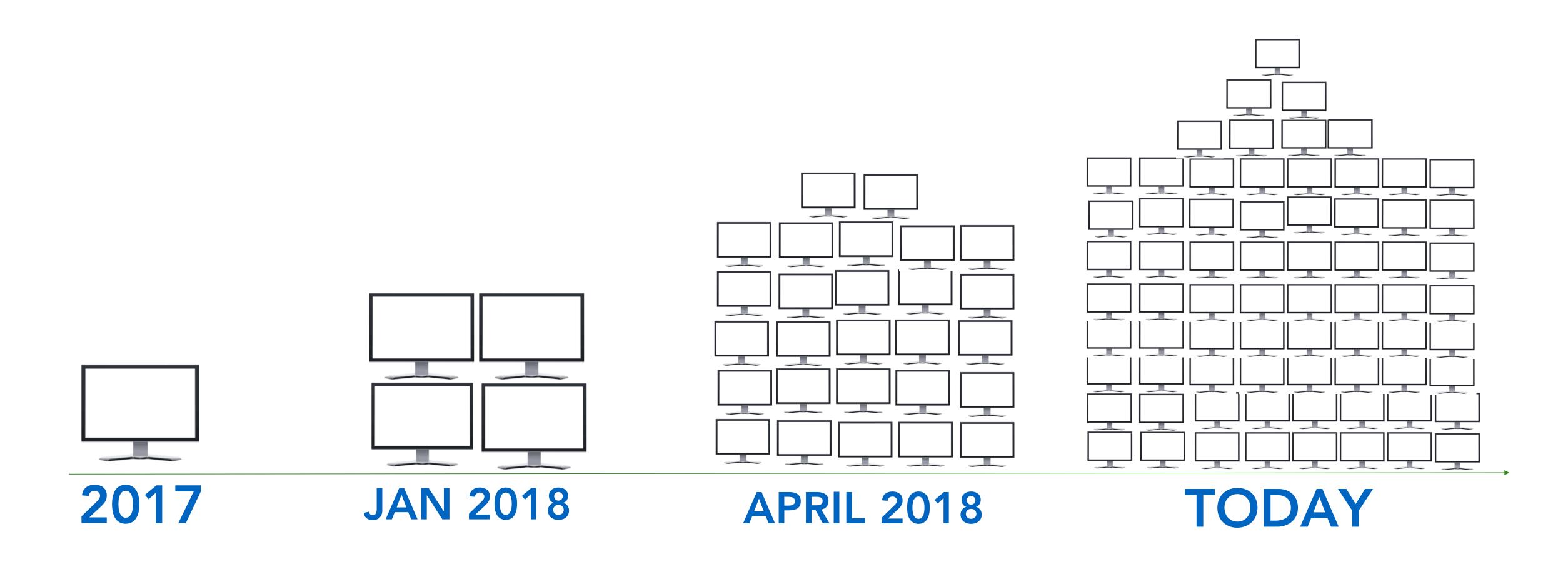
International Women's Day P.A.C.E. helps female garment workers advance in the workplace by providing technical skills and training.

Try something new.





PROGRESS WITH PERSONALIZATION



One Experience

4 Segments

27 Segments

87 Segments

8 Keep it simple

(at least at the beginning)

DATA SCIENCE AND ANALYTICS ORGANIZATION

KEY FUNCTIONAL GROUPS (EXAMPLE)

Decision Support and Analytics

scope: discover insights that deliver stakeholder outcomes / data-driven

solutions

Advanced Analytics and Data Science

scope: understand complex relationships / models /

foundational analytics and tools

Informatics and Governance

scope: deliver data stewardship / analytics tools

/ instrumentation / visualization



4 Embed data entrepreneurs to drive value





5

Power new product experiences with data

- Start at the top but build from the masses
- 2 Leverage partners along the way
- Keep it simple (at least at the beginning)
- 4 Embed data entrepreneurs to drive value
- Power new product experiences with data



BANANA REPUBLIC

THANKYOU



ATHLETA

INTERMIX

Gap Inc.