



Driving Business Growth with Experimentation + Personalization



Pete Gray

SVP, Customer Growth Strategy

One Story: Two Data Sets

PG's Anecdotal Data

8 years building experimentation program @





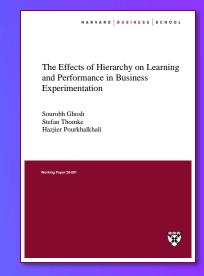
VP, Growth Product + Core Product Experimentation

2x Subscriber Base to 5M

Cultural Transformation

Optimizely Customer Data

2 Benchmarks:250K+ Experiments





How Does Experimentation Drive Growth?

Built-In Growth Drivers of Experimentation

Literally never make a mistake ever again.

Safely try risky stuff that you'd never try otherwise.

Drive cultural change with irrefutable data.

Why Can It Be Complicated?

Experimentation needs thoughtful integration with existing teams, operations, and culture.

Need thoughtful alignment:

Culture

Resources

Stakeholders

Operations

Org Structure

ROI Creation

ROI Communication

Technology



Is It Worth It?

HELL YES

2x+ subscription rate across all channels

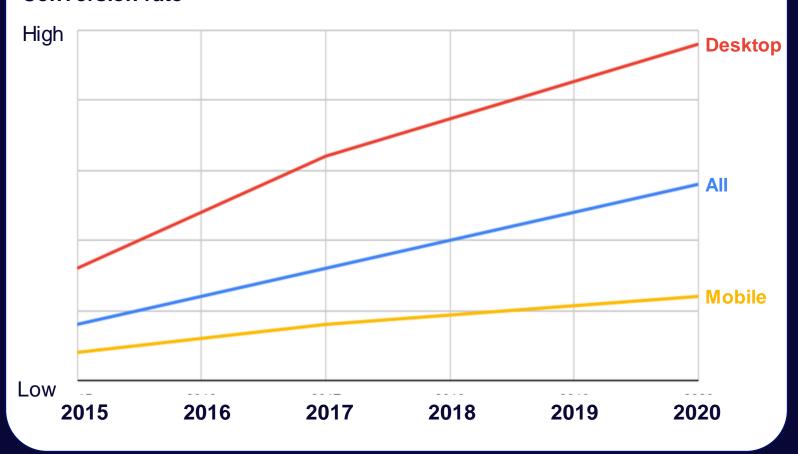
- +\$60.1M of incremental revenue from 2017 – 2019, (proven via back-testing)
- Over 400% improvement
 in the Save Rate for the digital cancellation flow

Subscription Rate Over Time

From "Shop Page" to Ordered



Conversion rate



Continuous experimentation is not enough.

Use data to design growth system to maximize ROI.

Building a Better Growth System











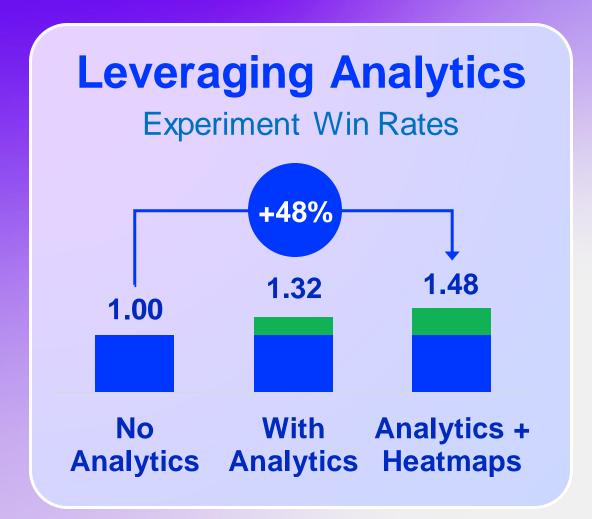
Know Your Customer Explore More Options

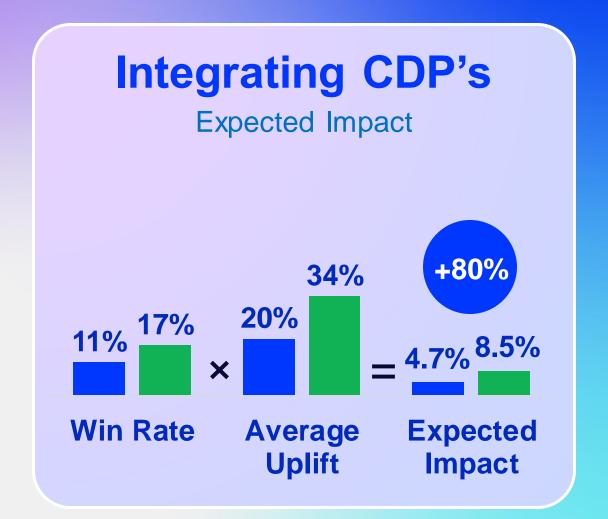
Take Bigger Risks Personalize Your Approach Build the Right Team



Know Your Customers

Become data-driven





Source: Analytics (Optimizely 2017, n = 103K tests from 1.1K companies),

CDP (Optimizely 2023, n = 127K tests from 1.1K companies), Expected Impact = Win Rate x Uplift



The Habit Project

The Work Before the Work

II	70	T
V		J

Category	Habit	Scale	Retention Benefit	
Platform Usage	Desktop Web	Medium	Medium	
	Mobile App	Low	High	
	Mobile Web	Low	Flat	
	Event	Very Low	High	
	Newsletter	High	Low	
News Content Types	Sports	Medium	High	
	Luxury Real Estate	Medium	High	
	Crossword Puzzles	Low	High	
	Opinion	High	High	
	Exclusive Longform	Medium	High	
	Cultural Reviews	Low	High	

The Habit Project: Crossword Adoption

THE WALL STREET JOURNAL. All The Right Angles By Michael Lieberman/Edited by Mike Shenk 10:06 0 0 G S Ε S Н 0 0 S o N E RNE URCO 0 G G Υ

Crossword Interventions:

- Added to most popular subs newsletter
- Follow alert created
- Follow alert added to new member onboarding
- Promoted on desktop homepage

Metric	2018	2023
New Sub Crossword Adoption	0.1%	7 %
Retention Benefit	+24%	+24%

Primary metrics Digital commerce





%

How much impact do we have?





<1% 0.1%



1%

2.3%



4% 1.2%



9%

2.0%

Source: Optimizely Benchmark 2023, n = 127K True Experiments by 1.1K companies run from 2018 - 2023

Scientific Study

Harvard Business School Studies the Highest Value Experiments Run on Optimizely

- Over 31K experiments analyzed over 3 years
- Corrected for company
 characteristics, experiment
 metrics, and seasonality

Source: Ghosh, Sourobh. 2021. Experimentation Approaches to Strategy and Innovation.

Doctoral dissertation, Harvard Business School

Corrected For

Measured per test

Organization FE

Month FE

Metric FE

Code Change[‡] Complex tests lead to more major wins (>99.9%)

Duration

Sample Size[‡]

Variant Count High variant tests lead to more major wins (>99.9%)

Metric Count

Development Time

Prior Experiments



Explore More Options

The effect of trying more variations Effect on primary metrics



Source: Optimizely Benchmark 2023, n = 127K True Experiments by 1.1K companies run from 2018 - 2023

5 Variations: What May Seem Obvious



Voted the most trusted name in news by the Pew Research Center every year since 1985

Winner of 35 Pulitzer Prizes

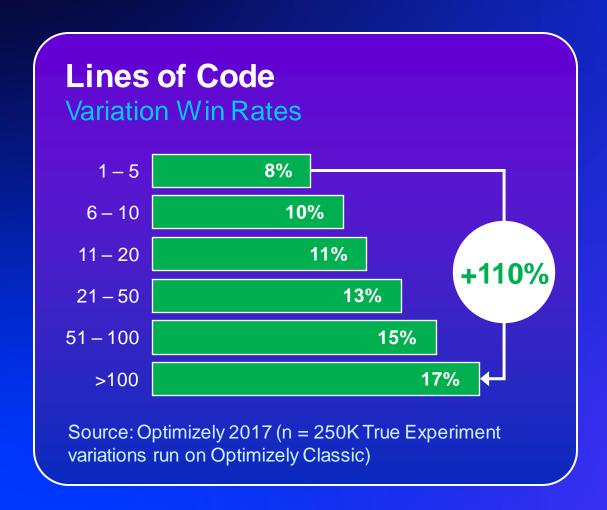
Trusted by over 3 million members

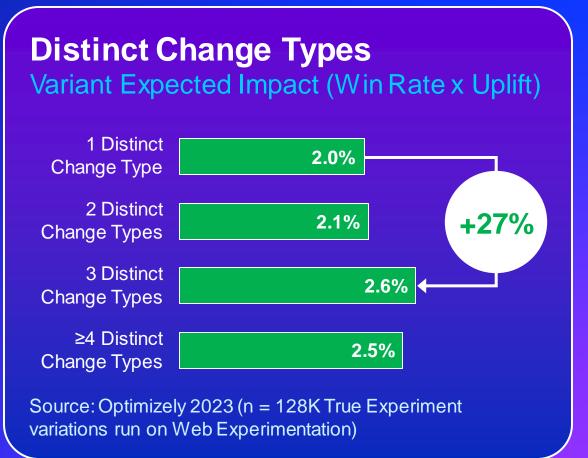
Continue reading your article with a WSJ membership

+37% Orders

Take Bigger Risks

Complex Variations Win More Often

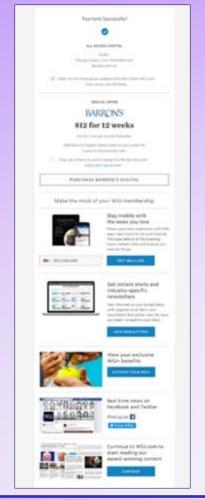






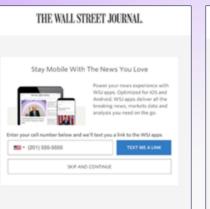
Bold Leaps: Splitting the Onboarding Flow

Original: Long Form



Variation: Four Steps

Step 1



Step 2



Step 3



Step 4



+150%
Mobile App
Downloads

+116%
Newsletter
Signups

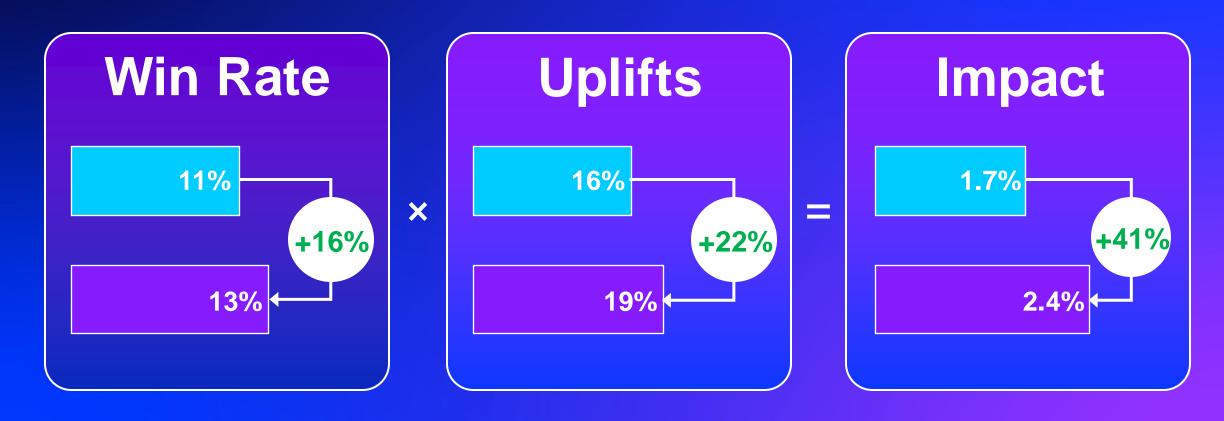
+91%
WSJ+
Sign-Ins

+281%
Social
Signups

Personalize Your Message

The Power of Personalization Effect on primary metrics

- **%** Untargeted
- **%** Personalized



Source: Optimizely Benchmark 2023, n = 127K True Experiments by 1.1K companies run from 2018 - 2023

Personalization: Obama 2012 Donor Flow



Employment

Federal law requires us to use our best efforts to collect and report the name, mailing address, occupation, and employer of individuals whose contributions exceed \$200 in an election cycle.



DONATE NOW

By clicking on the "Donate now" button above you confirm that the following statements are true and accurate:

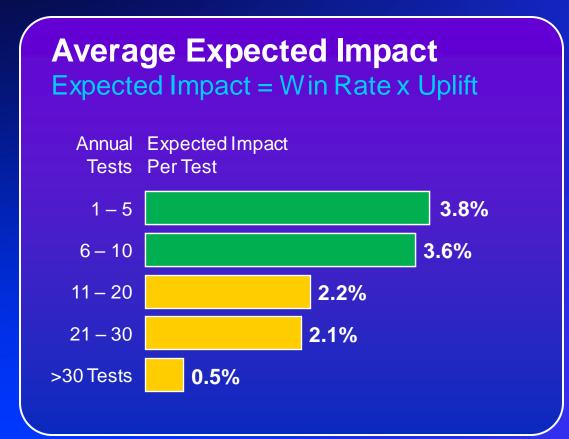
- I am a United States citizen or a lawfully admitted permanent resident of the United States.
- This contribution is not made from the general treasury funds of a corporation, labor organization or national bank.
- This contribution is not made from the treasury of an entity or person who is a federal contractor.
- This contribution is not made from the funds of a political action committee.
- This contribution is not made from the funds of an individual registered as a federal lobbyist or a foreign agent, or an entity that is a federally registered lobbying firm or foreign agent.
- I am not a minor under the age of 16.
- The funds I am donating are not being provided to me by another person or entity for the purpose of making this contribution.

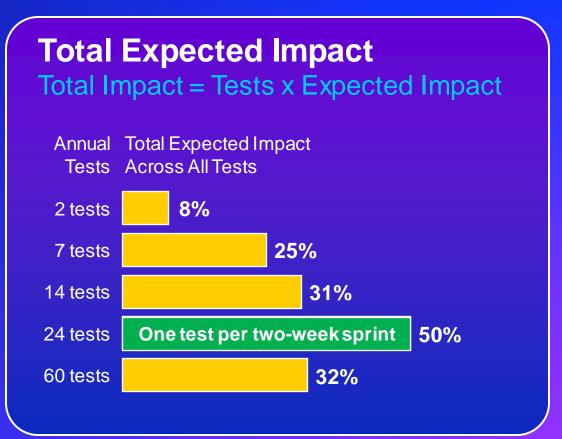
Personalization Simplified: Listening for Different Voices

	Unregistered Users	Registered Users	Returning Donors
DONATE NOW	0%	0.0%	0.0%
PLEASE DONATE	+2.3%	+27.8%	+16.3%
WHY DONATE?	-27.8%	N/A	N/A
DONATE AND GET A GIFT	+15.2%	-24.6%	+11.9%
CONTRIBUTE	+8.5%	+2.9%	+18.4%

Build theRight Team

Engineering productivity by workload True experiments per engineer per year







Resources and Scope Over Time



	2016	2017	2018	2019	2020	2021	2022	
Product Managers	1	3	5	8	8	8	8	
Other Hires	0	0	0	2	8	15	17	
External Resources	\$500K	\$1M	\$2M	\$2M	0	0	0	
Web Scope	+ Acquisition		+ On-boarding+ Home, articles+ Content recs		+ Cancellation			
App Scope			+ Acquisition		+ Onboarding+ Articles, home, recs+ Cancellation			
Brand Scope	+ WSJ		+ Barron's		+ Marketwatch			

Resources / Velocity WSJ Resourcing + Scope over time

Early: partners allow fractional FTEs and expertise

Mature: in-housed to support complex use cases and 2.0 cultural change

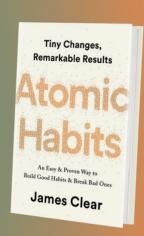
Expanded incrementally





You do not rise to the level of your goals.

You fall to the level of your systems.



Building a Better Growth System











Know Your Customer Explore More Options

Take Bigger Risks Personalize Your Approach Build the Right Team



Thank you!

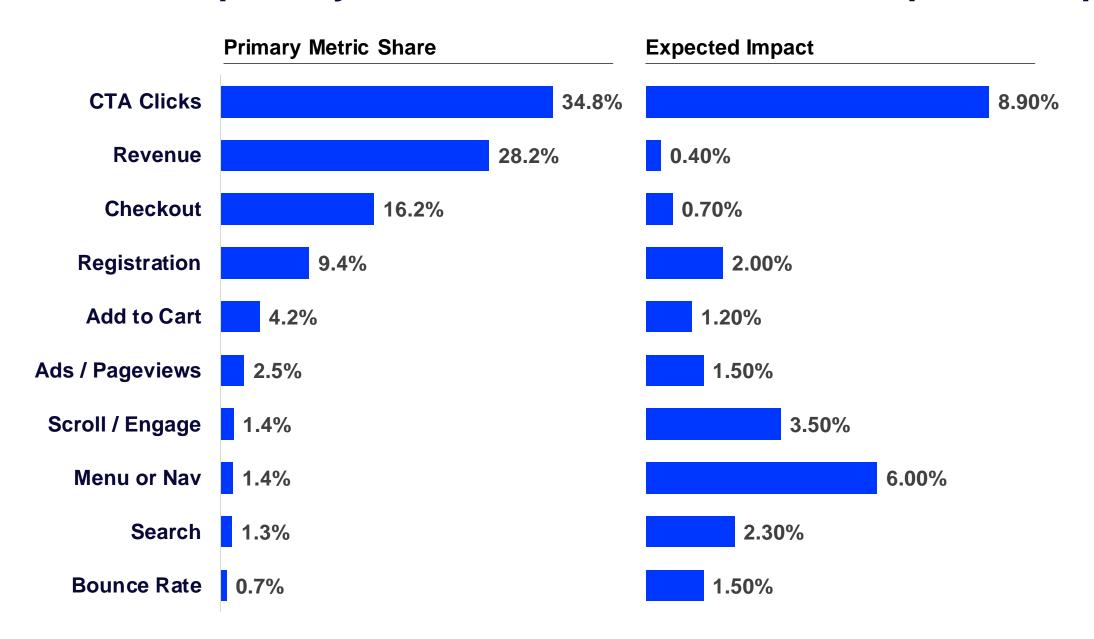


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Senior Vice President,
Customer Growth Strategy

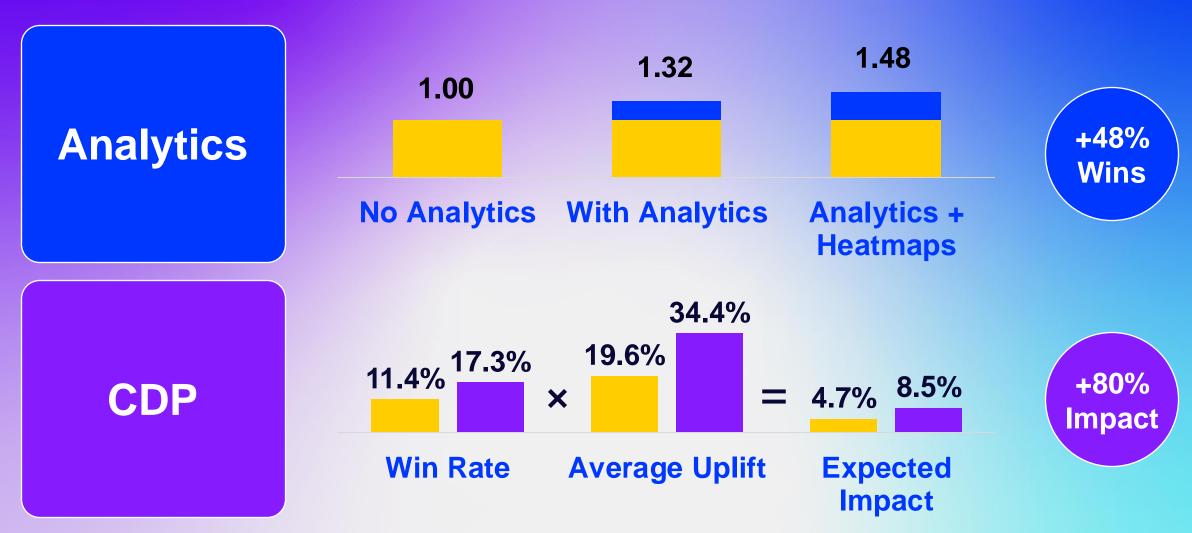


Appendix

How often primary metrics are selected versus expected impact



Become data-driven



Source: Analytics - Optimizely 2017, n = 103K tests from 1.1K companies CDP - Optimizely 2023, n = 127K tests from 1.1K companies

My Story at the Wall Street Journal

2015 - 2017 Team in Marketing

2018 - 2019Team in Marketing

2020 Team in Product

2021+ Insourcing & Beyond

Marketing: Experimentation as

Service

Marketing: Experimentation Embedded with Core **Product Management**

Marketing: Experimentation **Embedded with Core Product Management**

Membership: Experimentation **Embedded with Core Product Management**

Core Product:

Experimentation as Service

Core Product: Experimentation as **Embedded Service**

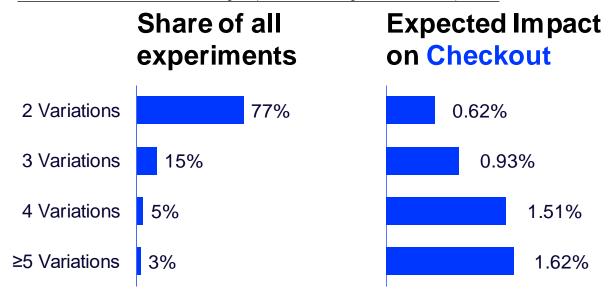
Core Product: Product Management (Experimentation fully embedded)

Experimentation Platform

Experimentation Platform

Companies overwhelmingly test A versus B, when the highest value is for multiple variants

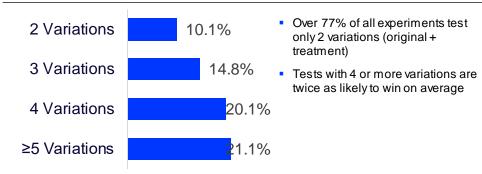
Experiments by variants versus expected impact on checkout n = 127K tests, variations includes original (2 Variations = Original + 1 Treatment)



Across primary metrics, higher variants outperform AB

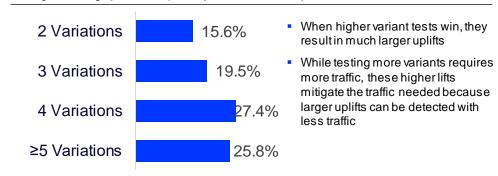
Experiment Win Rates by number of variations (including baseline)

Win rate on the primary metric for true experiments, n = 127k tests



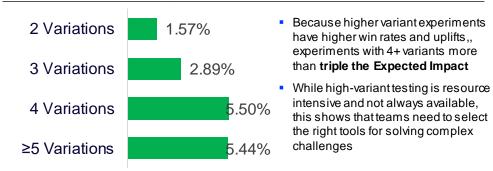
Average Uplift for Winning Experiments by variations (including baseline)

Average winning uplift on the primary metric for true experiments, n = 127k tests



Expected Impact by number of variations (including baseline)

Expected impact on the primary metric for true experiments, n = 127k tests



Senior leaders associate with more winning ideas, yet junior teams associate with greater breakthroughs

Scientific Study with Harvard Business School: Higher levels of seniority on testing teams associate with more winning experiments, yet smaller uplifts

	ln(Max Lift + 1)	Positive Statsig	
	(2-1)	(2-2)	
Max Seniority	-0.009**	0.010**	
,	(0.004)	(0.005)	
	[0.016]	[0.047]	
	~~~/	()	
Duration	0.002	0.005***	
	(0.001)	(0.001)	
	[0.165]	[0.0002]	
Traffic	0.00000	0.00003*	
	(0.00000)	(0.00002)	
	[0.364]	[0.076]	
Firm Age	0.0002*	0.0005**	
	(0.0001)	(0.0002)	
	[0.068]	[0.019]	
Employee Count	0.00000	-0.00000	
	(0.00000)	(0.00000)	
	[0.236]	[0.506]	
Technological Integrations	0.0004	0.001	
	(0.001)	(0.001)	
	[0.634]	[0.269]	
Industry Fixed Effects	Yes	Yes	
Week Fixed Effects	Yes	Yes	
$R^2$	0.0113	0.017	
Observations	6375	6375	

As the highest level of seniority found on a testing team rises...

- Experiments appear to win more often
- Yet experiment uplifts are smaller than those of more junior teams

This suggests that senior leaders have experience they can rely on to improve the status quote. However, their known experience may close them off to more modern methods that can result in larger breakthroughs. Junior teams appear to take more risk, with fewer wins but greater uplifts.

Source: Ghosh, Sourobh, Stefan Thomke, and Hazjier Pourkhalkhali. "The Effects of Hierarchy on Learning and Performance in Business Experimentation." Harvard Business School Working Paper, No. 20-081, February 2020.



#### Prof. Stefan Thomke

William Clay Harding Professor of Business Administration at Harvard Business School and author of "Experimentation Works"

Great leaders balance exploitation and exploration.

They push teams to leverage and optimize business models that have worked in the past. But they also empower people to explore and discover new ways to create and capture value. Business experimentation is the engine that drives both endeavors.

#### Instructions and resources

- Please hide slides 1, 2, and 3 for your final presentation.
- Stick to using the template slides as much as possible.
- Reference the example slides below for more detailed instructions on how to use each slide.
  Do not delete the example slides until your presentation is final so that you do not lose
  valuable instructions. We recommend duplicating the examples and adding in your content
  from there for ease of use.
- Ensure that your slides are readable from a distance: Refrain from creating text heavy slides and ensure your text is a minimum of 16pt.
- Speakers are limited to 20 slides max per presentation.
- Speakers may not alter the presentation theme.

#### **Ensure your text is visually accessible:**

	Black copy goes on yellow	Black copy goes on green	Black copy goes on light blue	White copy goes on Optimizely blue	White copy goes on purple
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#### **Numbers**

## 010203040506070809

Pills for sub-headers / flowcharts



**Arrows for Flow / Points** 

**Quote marks** 



Framing box

#### High-quality customer logos – scale as needed







VISA

Uber























GAP







#### **Discovery**



Filippa K

Scotts Miracle Gro



#### Agenda

- 1. Introduction
- 2. Our mission
- 3. How it works
- 4. Success stories
- 5. Moving forward

# Short header or statement can go right here

#### Optional sub header goes here: Arial bold 18pt

Then go into your details below: arial regular 16pt. Because of the complex pattern below, use this slide for very short content. Bullet points or short body paragraphs are encouraged—breaking up your info will help your audience scan the content from a distance quickly.





Introduction

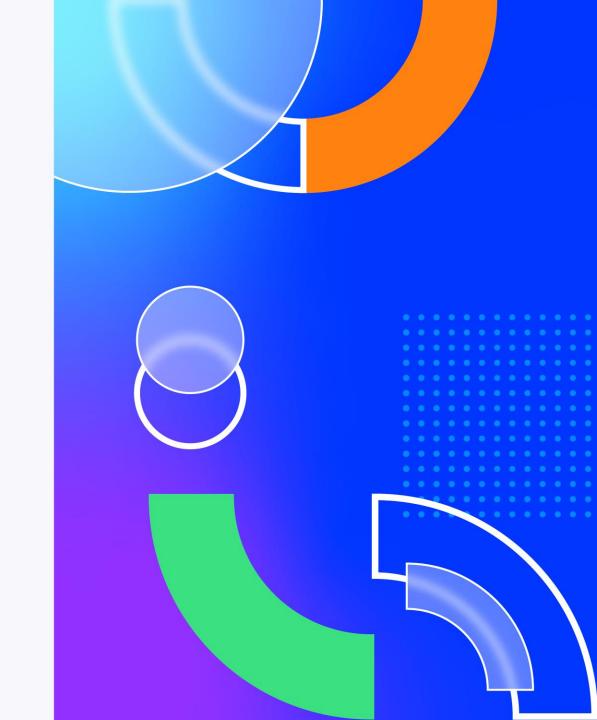
Insert description: Arial 44pt. Three lines max.

### Headline here: Arial bold 44pt

#### Optional sub header goes here: arial bold 18pt

Then go into your details below: arial regular 16pt. Bullet points or short body paragraphs are encouraged—breaking up your info will help your audience scan the content from a distance quickly.

Please be clear and straight to the point. Folks won't enjoy having to squint at the screen in order to read a super text-heavy slide. Three bullet points max. Or, alternatively, two short body paragraphs max.



# Important stats slide: Arial bold 44pt

**78%** 

Supporting text right here: arial 16pt Lorem ipsum dolor sit amet, adipiscing elit.

\$2.2M

Supporting text right here: arial 16pt Lorem ipsum dolor sit amet, adipiscing elit.

34%

Supporting text right here: arial 16pt Lorem ipsum dolor sit amet, adipiscing elit.

10X

Supporting text right here: arial 16pt Lorem ipsum dolor sit amet, adipiscing elit.



### Headline here: Arial bold 44pt

Optional sub header goes here: arial bold 18pt

Then go into your details below: arial regular 16pt. Bullet points or short body paragraphs are encouraged—breaking up your info will help your audience scan the content from a distance quickly.

Please be clear and straight to the point. Folks won't enjoy having to squint at the screen in order to read a super text-heavy slide. Three bullet points max. Or, alternatively, two short body paragraphs max.



Our mission

Insert description: Arial 44pt. Three lines max.



Impactful quote here: Arial Bold 28pt. Lorem ipsum dolor sit amet, consectetuer adipiscing elit, sed diam nonummy nibh euismod tincidunt ut laoreet. Duis velit.

Full name: Arial bold 18pt

Job title and place of work: Arial reg 16pt



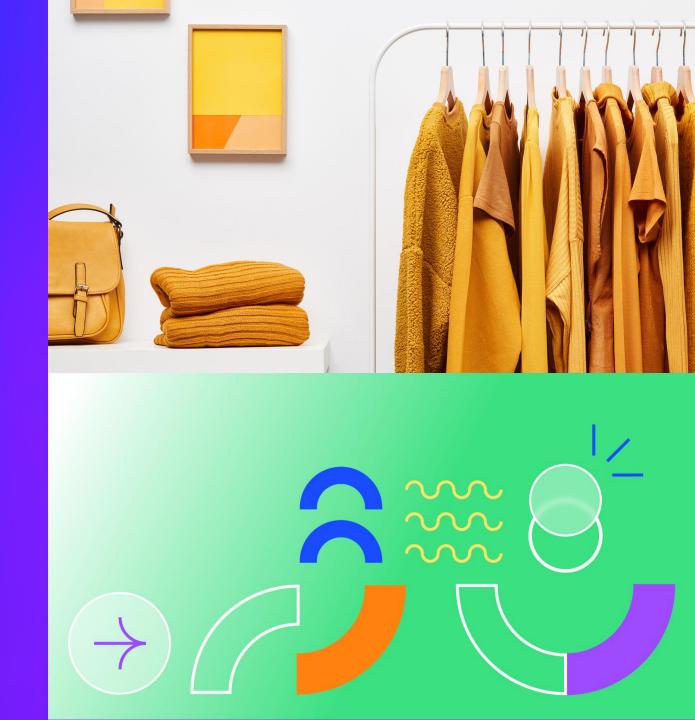


### Headline here: Arial bold 44pt

**Optional sub header here: Arial bold 18pt** 

Then go into your details below: Arial regular 16pt. Bullet points or short body paragraphs are encouraged—breaking up your info will help your audience scan the content from a distance quickly.

Please be clear and straight to the point. Folks won't enjoy having to squint at the screen in order to read a super text-heavy slide. Three bullet points max. Or, alternatively, two short body paragraphs max.



# Two column slide: Arial bold 44pt

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Please be clear and straight to the point. Only use this slide if you absolutely must show multiple body paragraphs. Lorem ipsum dolor consectetur adipiscing elit, sed do eiusmod tempor incididunt ut wed beat

Duis aute irure dolor in reprehenderit in voluptate velit esse cillum dolore eu fugiat nulla pariatur. Excepteur sint occaecat cupidatat non proident, sunt in culpa qui officia deserunt mollit anim id est.

Placerat orci nulla pellentesque dignissim enim sit amet. Nibh venenatis cras sed felis eget velit aliquet sagittis id. A erat nam at lectus. Lorem ipsum dolor consectetur adipiscing elit, sed do eiusmod tempor.

How it works

Insert description: Arial 44pt. Three lines max.

# Step-by-step or key points slide



First main point goes right here: Arial bold 18pt

And optional supporting text: Arial reg 16pt



Second main point goes right here:
Arial bold 18pt

And optional supporting text: Arial reg 16pt



Third main point goes right here: Arial bold 18pt

And optional supporting text: Arial reg 16pt



Fourth main point goes right here:
Arial bold 18pt

And optional supporting text: Arial reg 16pt

# Thank you!



Pete Gray
Senior Vice President,
Customer Growth Strategy



Hazjier Pourkhalkhali Global Vice President, Strategy & Value

