

# Establish Your Experimentation as a Business Product

The Home Depot

**Damien Hopkins** Sr. Manager, Experimentation, Home Depot

**Ryan Tincknell** Sr. Enterprise Architect, Adobe Professional Services

# **Adobe Summit**



### Welcome



#### **Damien Hopkins** Sr. Manager, Experimentation



Experience spans industries & roles: Sales Vertical, Program Strategy & Execution, Inhouse Consultant, Product Management, more recently evolving teams from ad-hoc

**Experimentation Achievements:** 

services to full Product teams at scale.

- Evolve Experimentation Team from ad-hoc services to enterprise product
- Scale Data-Driven Testing from 60 days down to 21 days (with average 14 day testing cycle)
- Expand KPI-Focused Business Impact with 200+ metrics to use insights that inform decisions & document value tests create

**For fun:** Tech Geek | Remodeled half of my house from stud to complete | Avid Downhill Mountain Biker | have a passion for modifying almost anything I can



Ryan Tincknell Sr. Enterprise Architect



Adobe Professional Services leader with 20+ years experience creating value through solutions strategy, personalization, analytics and marketing research:

- Industry-specific experience across financial services, travel & hospitality, ecommerce, automotive, healthcare and B2B services/products
- Straddles the fence between technology and business to ensure solution visions he creates with client leadership get transposed to the right requirements and technical constructs with delivery teams.
- Has a heart and passion to do cool things with marketing technology and getting clients excited about the opportunity their data presents.

# Before we begin...

### Who is this session for?

- Experimentation program managers & company leadership looking to expand testing
- Customers struggling to scale their testing capabilities

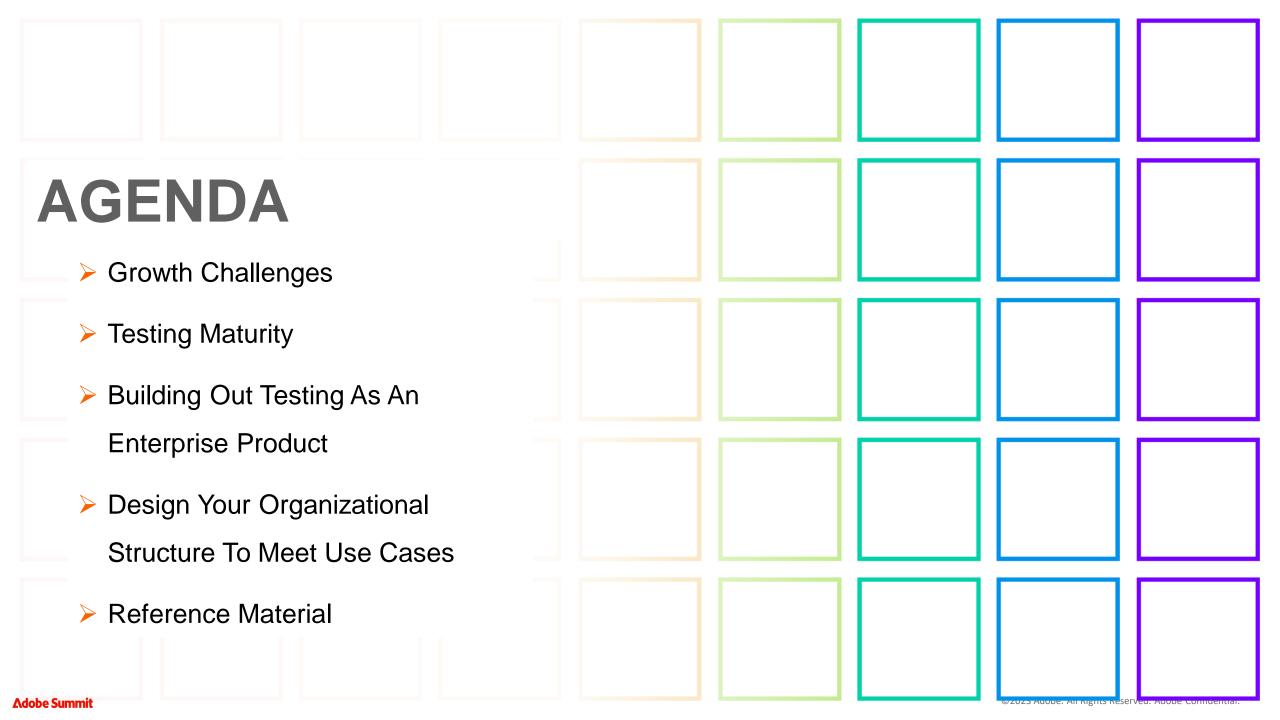
#### What is this session about?

- Experimentation maturity & how to grow
- Methods to expand form ad-hoc testing to establishing it as a business product

#### What will I walk away with?

- How to define my own experimentation roadmap
- Organizational blueprints & reference material
- People, process, technology components needed to scale

# Adobe Summit



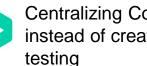
Home Depot encountered a variety of challenges after being tasked with expanding experimentation capabilities to scale value creation demonstrated through a series of initial wins with Adobe Professional Services, Thought Leadership & Technical Support

### **OPERATIONAL**

- Build more value, not just more tests



Expand test volume with flat, or fewer resources



Centralizing Content Management instead of creating a new one for



Data driven audience segmentation & experimentation prioritization



### **STRATEGIC**



Prioritize Experimentation Cross-Functionally driving the value it returns



Define a Revenue Proposition based on the impact tests have on audiences



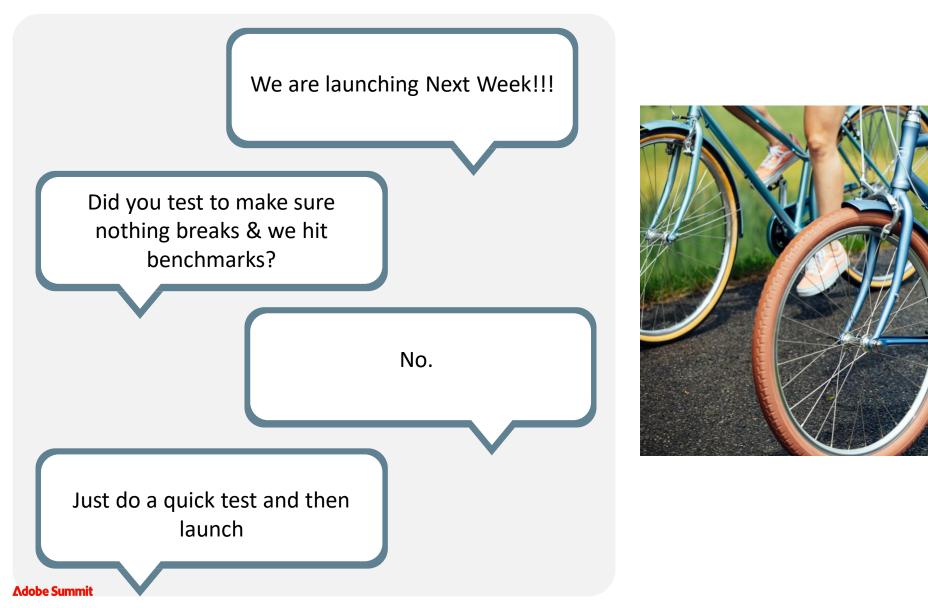
Evangelize Experimentation from .com to Enterprise



Create Personalization via **Omni-channel Experiences** 

### Running Experimentation should be as easy as riding a bike, Right?

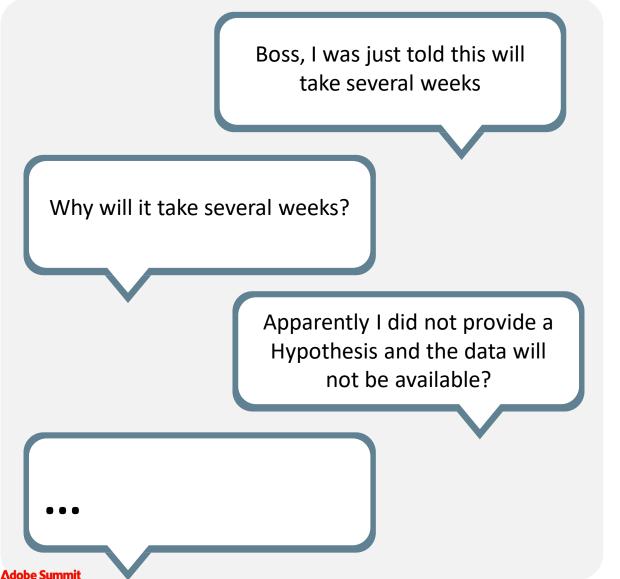




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## But is it really that easy...







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# Experimentation continuously gets more complex as the Experience continues to evolve



#### **BIKE VIEW**

#### Product

- Road bike
- BMX bike
- Mountain bike

#### Experience

- Flat Road
- Terrain/Skate Park
- Downhill or High Climb

#### Execution

- What will I like
- How long should I ride for
- What do I want to achieve
- Does it meet the expectations



### **EXPERIMENTATION VIEW**

#### Product

- Project Management Platform
- Testing Platform
- Analytics Platform

#### Experience

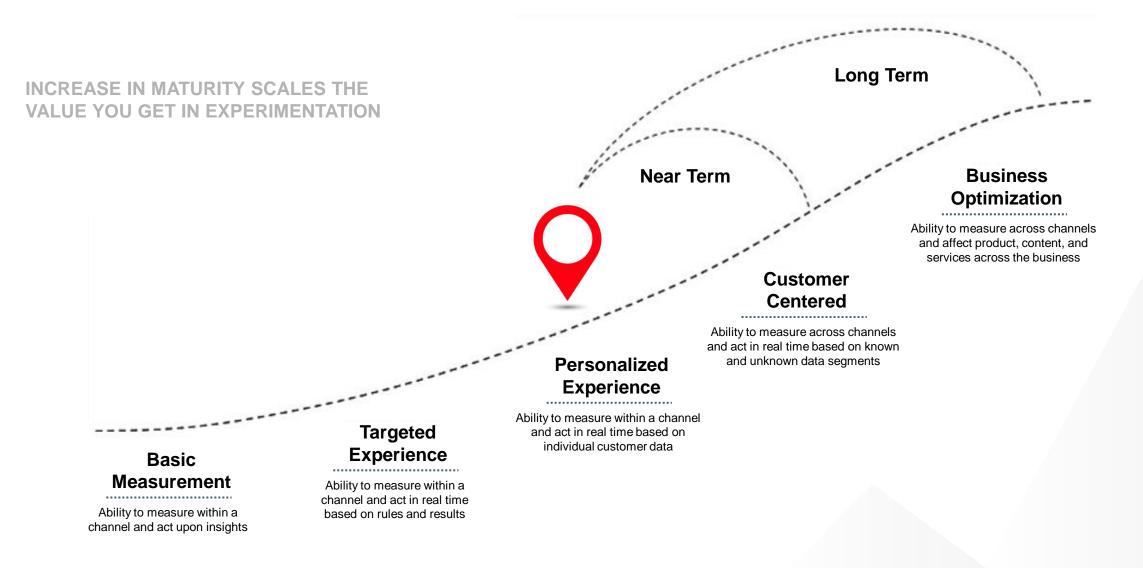
- A/B Test
- MAB (Multi-Armed Bandit)
- Personalization

#### Execution

- Hypothesis
- Power Analysis
- Measurable Data
- Insights & Recommendations



# As maturity of Personalization & Customer Journey continues to evolve, so does Experimentation capabilities



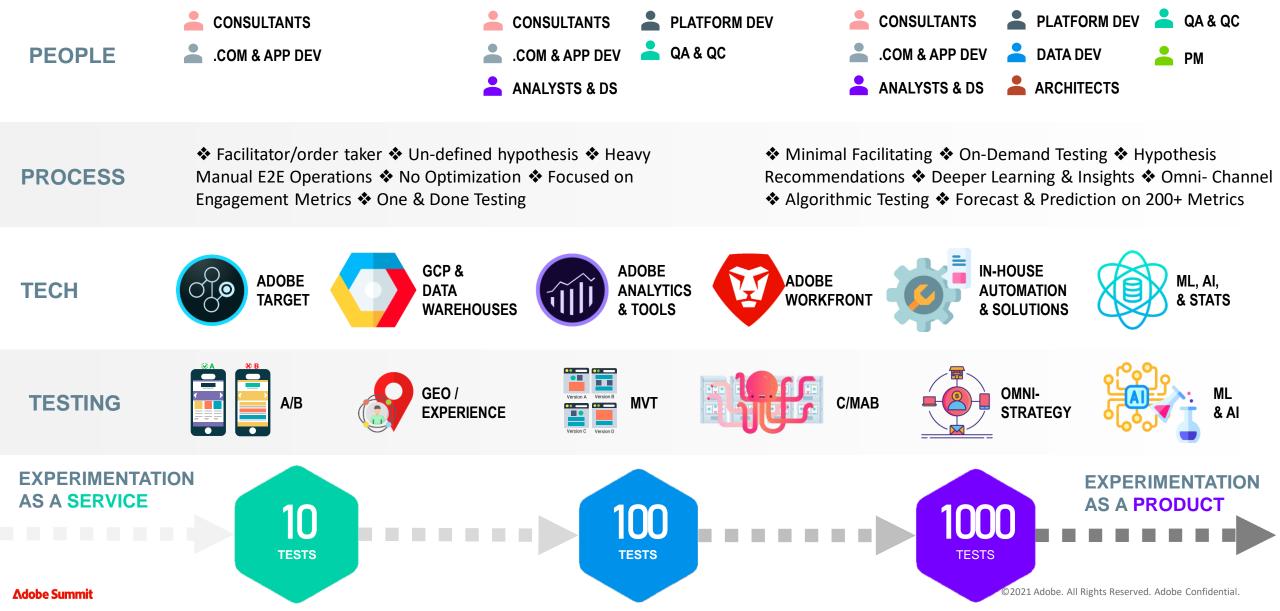
KADDE E Experimentation

Evolution in anything, Product, Marketing, Data, you name it...

Experimentation has challenges too in how to it needs to think about its maturity

AVOID PITFALLS WITH PROGRAM GROWTH	Center of Exc Product Management	Opportunity Prediction Forecasti	Development Optimization <b>Agile M</b>	Artificial Intelligence	Customer Journey Review Machine	Modeling
	Governance 👷		Autor	commendation mations Prog orm Mana	<b>A</b>	Data
EXPERIMENTATION AS A SERVICE	10 TESTS		DODESTS		OOO TESTS	EXPERIMENTATION AS A PRODUCT

# As maturity evolves, so do People, Process, and Tech as well as the Experimentation Types & Execution



Experimentation

Scale, Culture, Innovation



As we continue to elevate EaaP, true scale has to have thought

### **Operational Advancements**



Data Science



Auto-test creation via API



Semi-Automated reporting



AI & ML – natural language generation, anomaly detection

# H

Experimentation – centralization vs decentralization vs CoE

**Org Structure & Expansion** 



Experimentation best practices & cross-business application



Team & Organization Design – defining skillsets and people needs



Tools & Technology that enable the expansion of Experimentation



# **NEXT STEPS & TAKE AWAYS**

## **Experimentation as a Product (EaaP)**

Converting Experimentation from a Ad-hoc Service to an Enterprise product, enabling stakeholders, business unit, and the organization to activate:



Empower Key Business Decisions before releasing Feature, Products, and Services



Activate Omni-Channel Personalization & how to incrementally increase customer satisfaction & revenue



Continuously Advance Experimentation enabling Data Driven Testing & Culture of Experimentation



Beyond just measuring engagement & how business decisions are made, its about transparency, extensive data, & recommendations



Overview of maturity of Experimentation as a Product & how EaaP can be thought of in your world

2,4-1

#### **Blueprints**

High level process maps on what, where, & how to think about EaaP orchestrations & implementation



Enabling thought leadership on elements that are often missed when mastering EaaP and its journey

# **Blueprint** High level process maps on what,



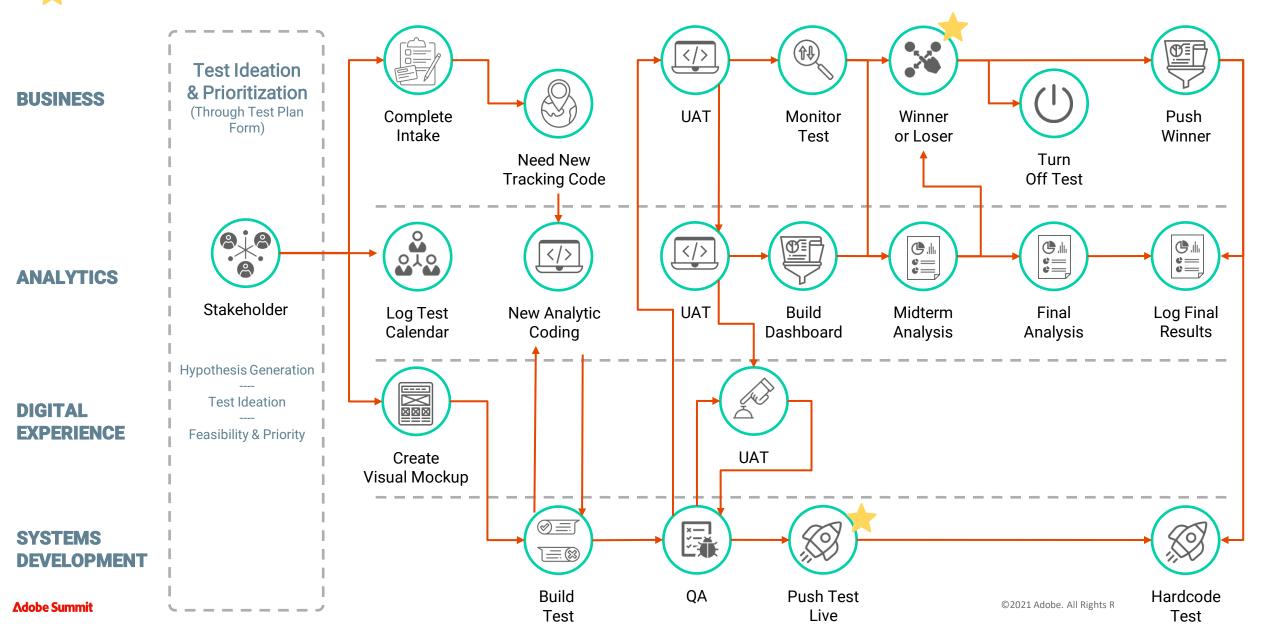
where, & how to think about EaaP orchestrations & implementation



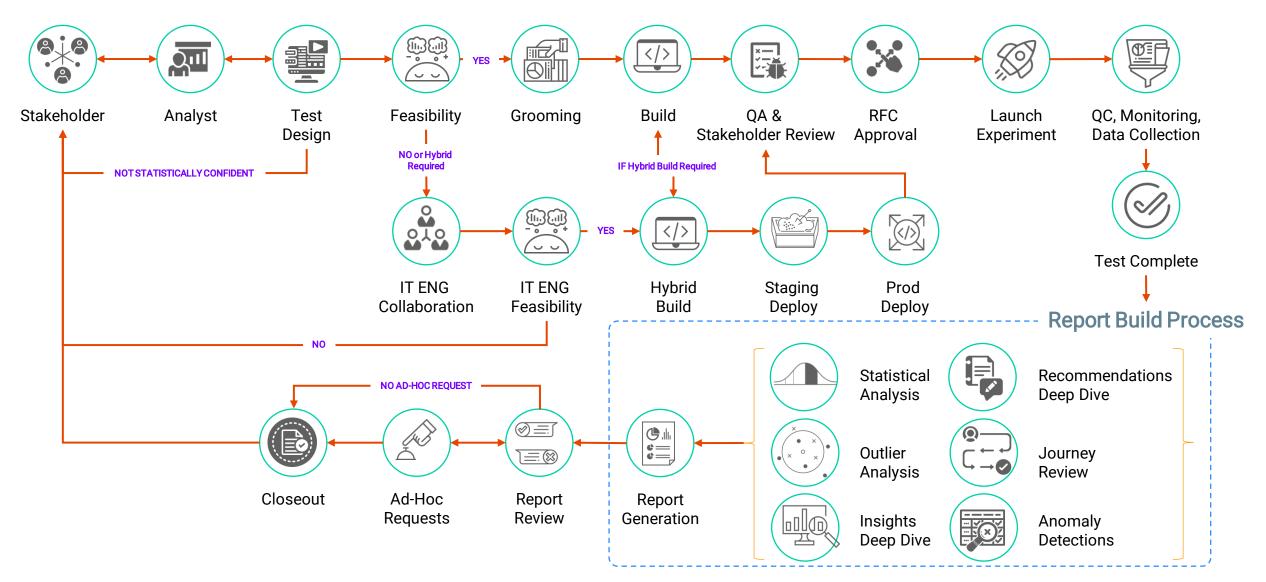


### **Targeted Experience Maturity Blueprint | Scale Test Creation**

Check for data aggregation & validation of Experience



# Personalized Experience Maturity Blueprint | Reduce Effort & Establish Experimentation as a Product (EaaP)

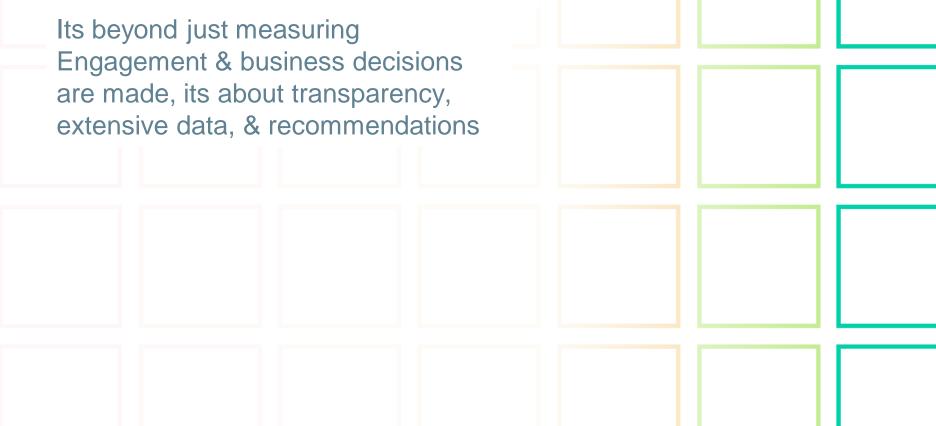


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**Experimentation** 

Scale. Culture. Innovation

# **Slide vs Chart**





## <Test Name> | Test Setup, Report Criteria & Sources

Units Per Transactions

Cart adds from PIP

Revenue

Exit Rate on PIP

pothesis
policaia

<Hypothesis Statement>

#### **Test Setup**

<Control Experience> Control

<Test Experience> Test

- PIP Page : The shipping experience on page will show a reduced ETA for shipping Delivery Date by XX day
- Shopping Cart : The shipping experience on page will show a reduced ETA for shipping Delivery Date by XX day
- Checkout Page : The shipping experience on page will show a reduced ETA for shipping Delivery Date by XX day on the right rail for shipping products

#### Traffic

- This is an even-split A/B test
- Each test group has 1/2 of production traffic assigned
- B2C has 100% of total traffic assigned to this test ٠
- B2B has 100% of total traffic assigned to this test

Campaign ID					
PC & MW		123456			
Control Test	<b>234567:0:0</b> 234567:1:0				
Metrics					
• CR		Exit rate on Shopping cart			
• AOV		• Exit Rate on Checkout Page			
• RpV		Orders by Fulfillment Type			
Cart Add Visits		<ul> <li>Cart add visits on PIP by</li> </ul>			

rev doc: Excel

Fulfillment type

• Payment Types

Fulfillment Types

CR for fulfillment types

#### Segments

- Desktop
- Mobile Web
- B2C
- B2B
- Department
- Exclusion
- Excluding Tablet, IE, Firefox
- Excluding Beta Traffic
- Excluding Tablet Devices
- APP

#### Analysis

- Statistical Analysis (Stat Sig 2 of 3 Gross Sales)
- Outlier Analysis (.XX% removal)
- Insights & Recommendations (Complete)
- Anomaly Detection (Complete)
- Journey Review (N/A)

#### **Data Sources**

- Production environment customer analytics <data tables>
- Business environment testing analytics <data tables>
- Business environment business analytics <data tables>
- Production environment financial metrics <data tables>
- Production environment shipping and customer metrics <data tables>

= Site-wise Negative Annual Incremental

**Incremental Revenue Calculation** 

\* Last 52 Full Weeks Test page Visits

\* Last 52 Full Weeks AOV

\* Seasonality Adjust Parameter

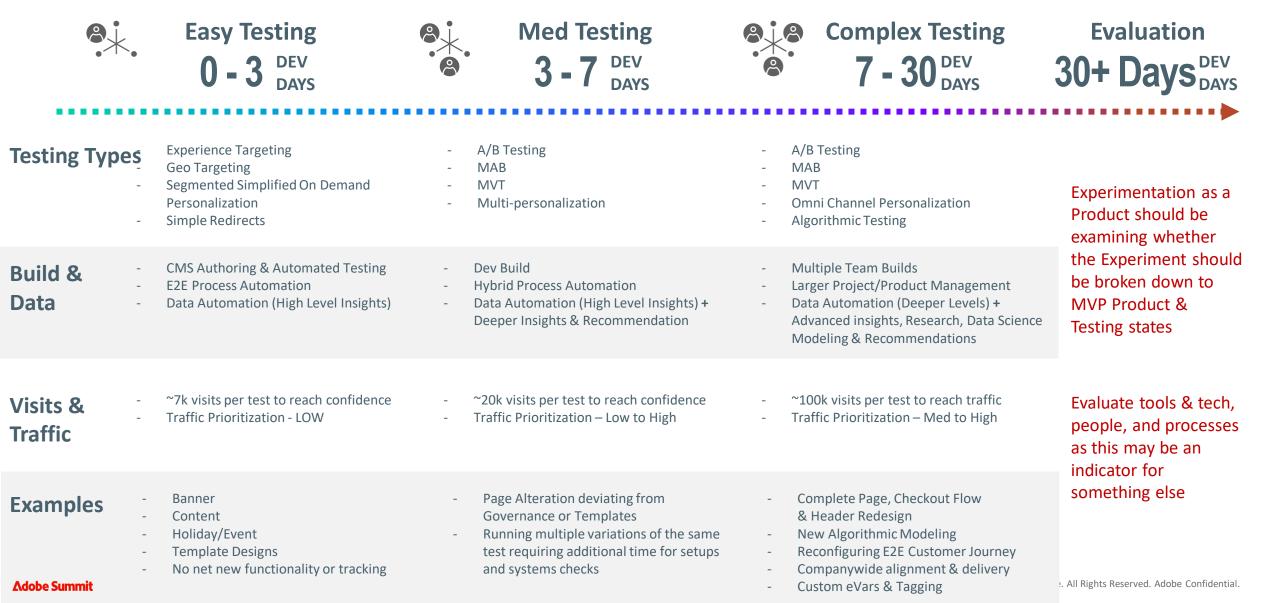
Conversion bps loss from Test Experience

# EaaP Overview



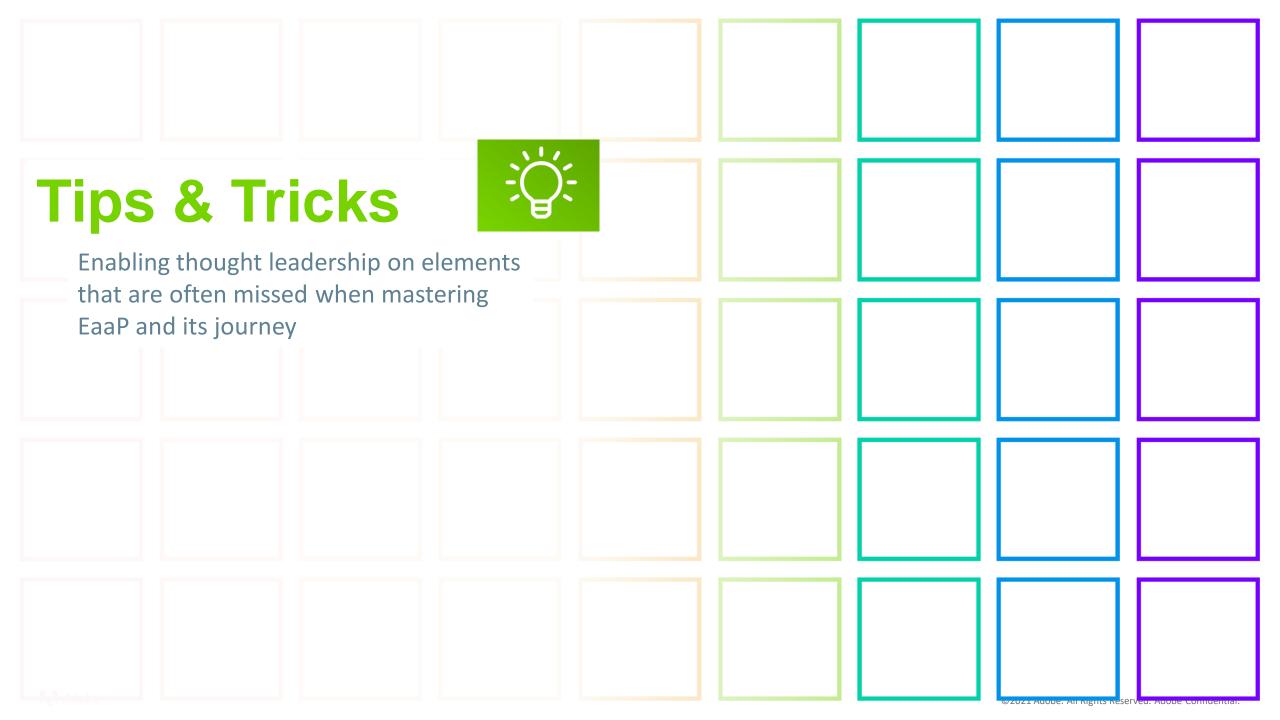
Overview of maturity of Experimentation as a Product & how EaaP can be thought of in your world

# Example of speed to Experimentation and how to segment requirements to achieve results



Experimentation

Scale, Culture, Innovation



# **TIPS & TRICKS TO** MASTER EXPERIMENTATION VIA EXPERIMENTATION AS A PRODUCT



#### Map the Team & Work -



Standardize Roles, Responsibilities & Define relevant Performance Goals



Evaluate short/long-term maturity goals & Take Action

**Identify Infrastructure** 

Implementation & Elevate



Change Management & Process Enablement Plans



Map steps to complete & identify critical juncture points



Centralize Activity Management & Handoffs via Project Management Tools



Map Data, Platform & Integration Requirements



Data-Handling & Insights Driving Iterative Opportunities

Evangelize Testing & Operationalize Test Workflows



Operational Delivery via critical thought & actionable insights



