

Streamlining E-Commerce: A Focused Approach on Communication, Testing, and Requirements in Agile SDLC




Tyler Granlund

Senior Product Manager
Adobe Commerce advocate



**Ask the
presenters a
question**




**Don't miss these
resources!**

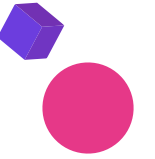
Extras!



**Chat with
other
attendees**



AGENDA



INTRODUCTION

AGILE SDLC OVERVIEW

A FOCUS ON COMMUNICATION, REQUIREMENTS, AND TESTING

APPLY AGILE SDLC PRACTICES TO YOUR ADOBE COMMERCE UPGRADE

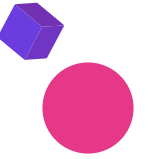
Q&A

Agile Methodology: Impact and Mission



By integrating agile methodologies into our development processes, we enhance our flexibility and responsiveness. Our strategic vision guides each step to align with our broader goals, contributing significantly to our sustained organizational success.

Significance of Efficient e-Commerce Development



1

Customer-Centric

Agile development fosters continuous customer feedback, leading to a more intuitive and tailored user experience.

2

Rapid Iterations

Quick release cycles enable faster incorporation of customer feedback, resulting in improved customer satisfaction.

3

Enhanced Usability

Incremental deliveries and regular testing contribute to higher-quality products that meet customer needs.

4

Alignment with Agile SDLC

Flexible architecture allows the system to handle growing demands and accommodate increased user activity.

5

Market Adaptability

Ability to quickly respond to market changes and adapt the product to meet evolving customer demands.



Significance of Efficient e-Commerce Development



1

Customer-Centric

Agile development fosters continuous customer feedback, leading to a more intuitive and tailored user experience.

2

Rapid Iterations

Quick release cycles enable faster incorporation of customer feedback, resulting in improved customer satisfaction.

3

Enhanced Usability

Incremental deliveries and regular testing contribute to higher-quality products that meet customer needs.

4

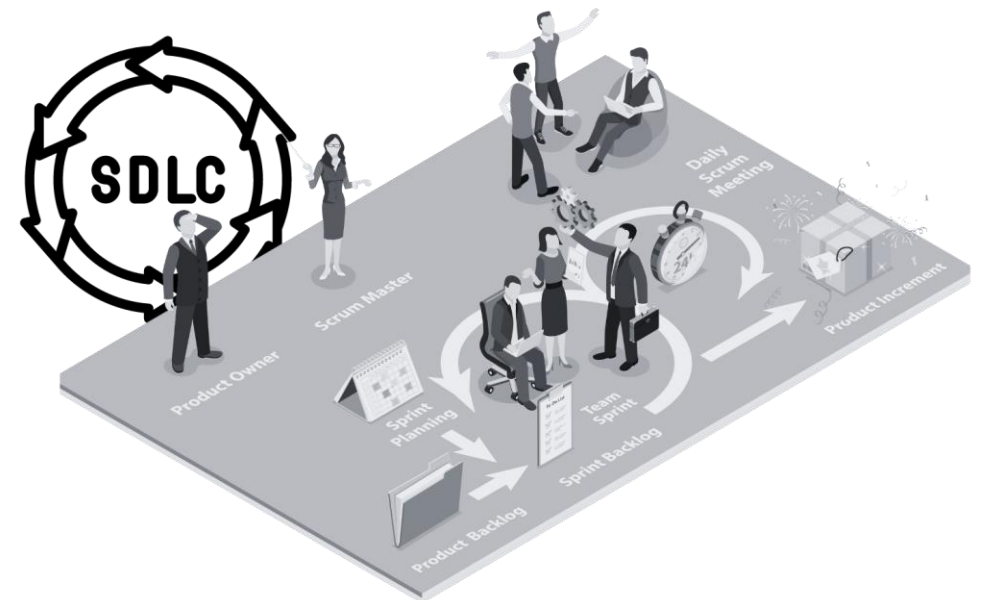
Alignment with Agile SDLC

Flexible architecture allows the system to handle growing demands and accommodate increased user activity.

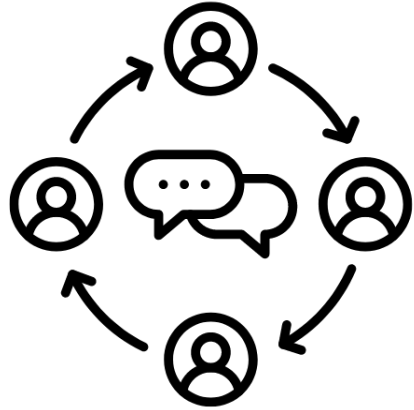
5

Market Adaptability

Ability to quickly respond to market changes and adapt the product to meet evolving customer demands.

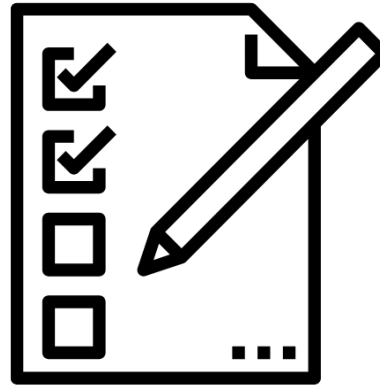


Alignment with Agile SDLC



Communication

Effective communication among team members is crucial in Agile SDLC. It facilitates collaboration, knowledge sharing, and ensures everyone is on the same page.



Planning & Requirements

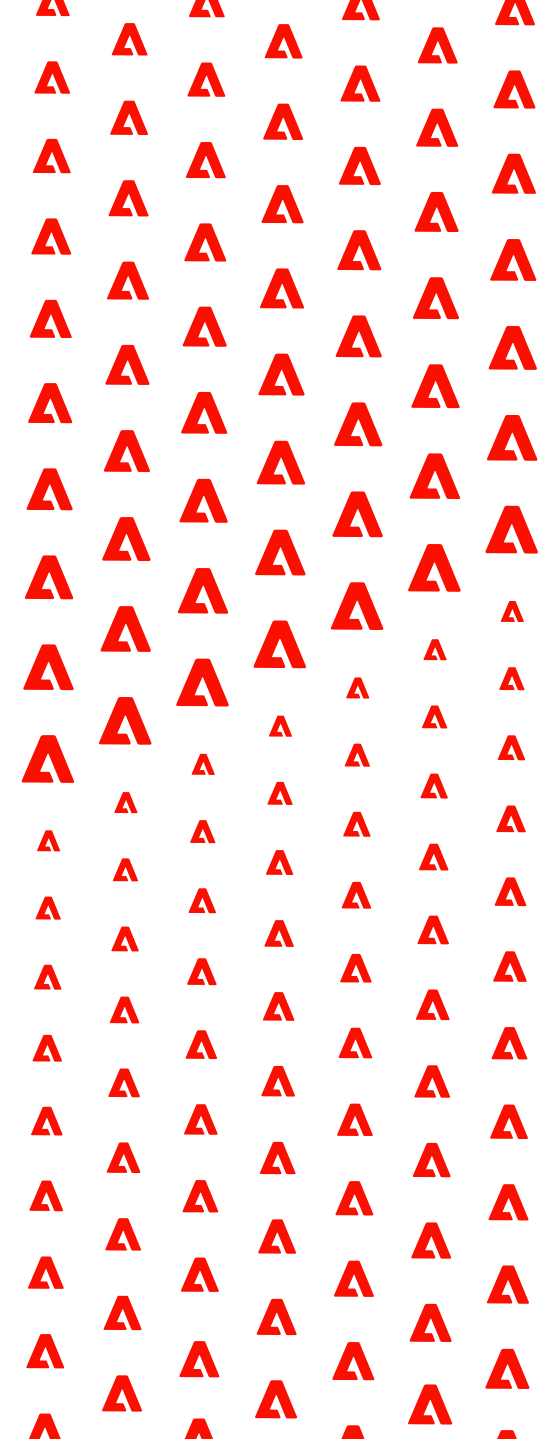
Thorough planning and clear requirements help define project goals, scope, and deliverables. It enables efficient resource allocation, risk mitigation, and ensures alignment with customer needs.



Testing

Testing plays a vital role in Agile SDLC to ensure the quality and reliability of the developed software. It helps identify and fix issues early, leading to improved customer satisfaction.

STAKEHOLDER & TEAM COMMUNICATION



Communication Best Practices



**Cross-Department
Collaboration**

**Clear Communication
Channels**

**Customer Feedback
Integrations**

Agile Methodology

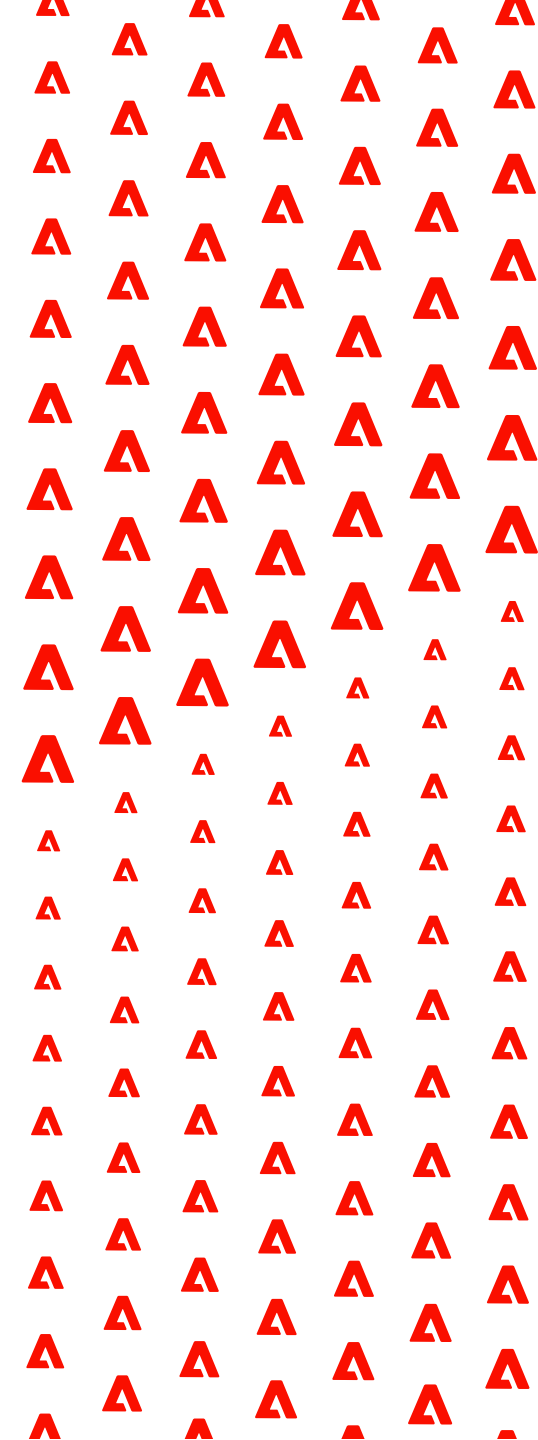
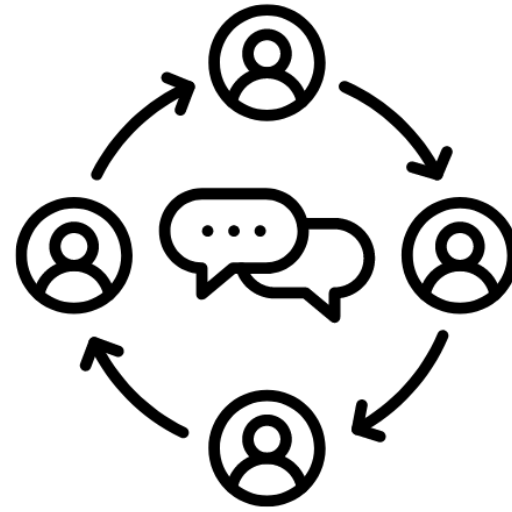
**Data-Driven Decision
Making**

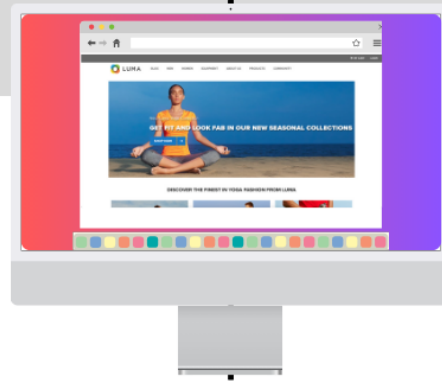
**Regular Review &
Adaption**

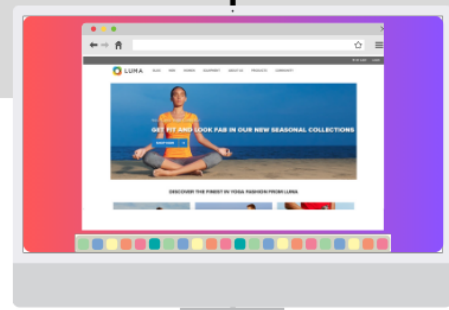
**Training &
Development**

COMMUNICATION

TYPICAL USECASE

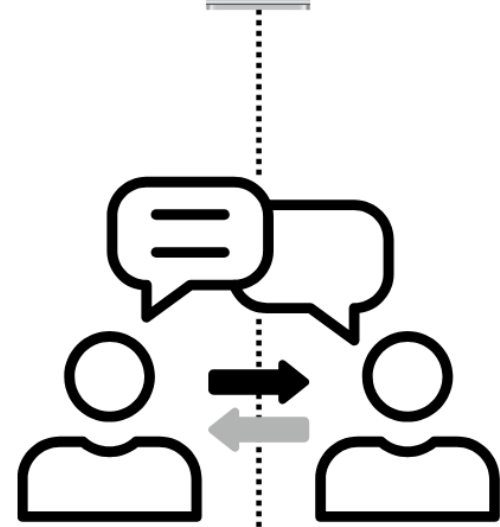
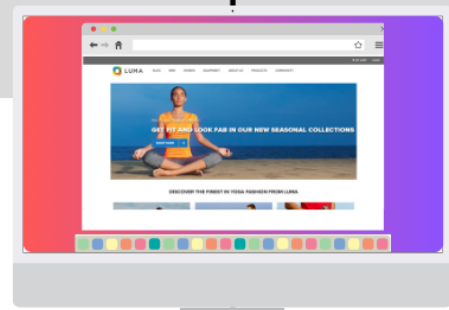






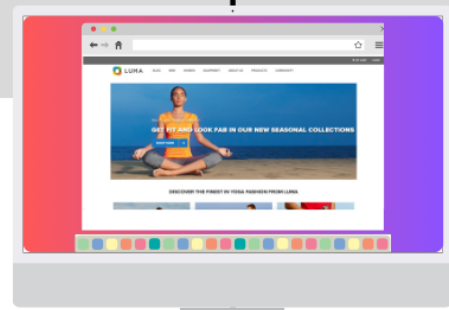
INTERNAL

EXTERNAL



INTERNAL

EXTERNAL



Adobe Commerce



PRODUCT



EXECS



UX/DESIGN



IT



DEV/ENG



OPS & FULF



HR & COMP



FIN & LEGAL



MKTG



CS



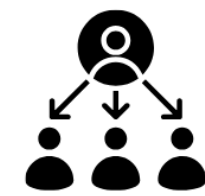
SALES



**CUSTOMERS
USERS**



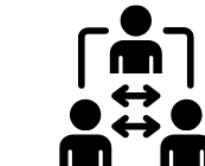
**REGULATORY
BODIES**



**SUPPLIERS
PARTNERS**



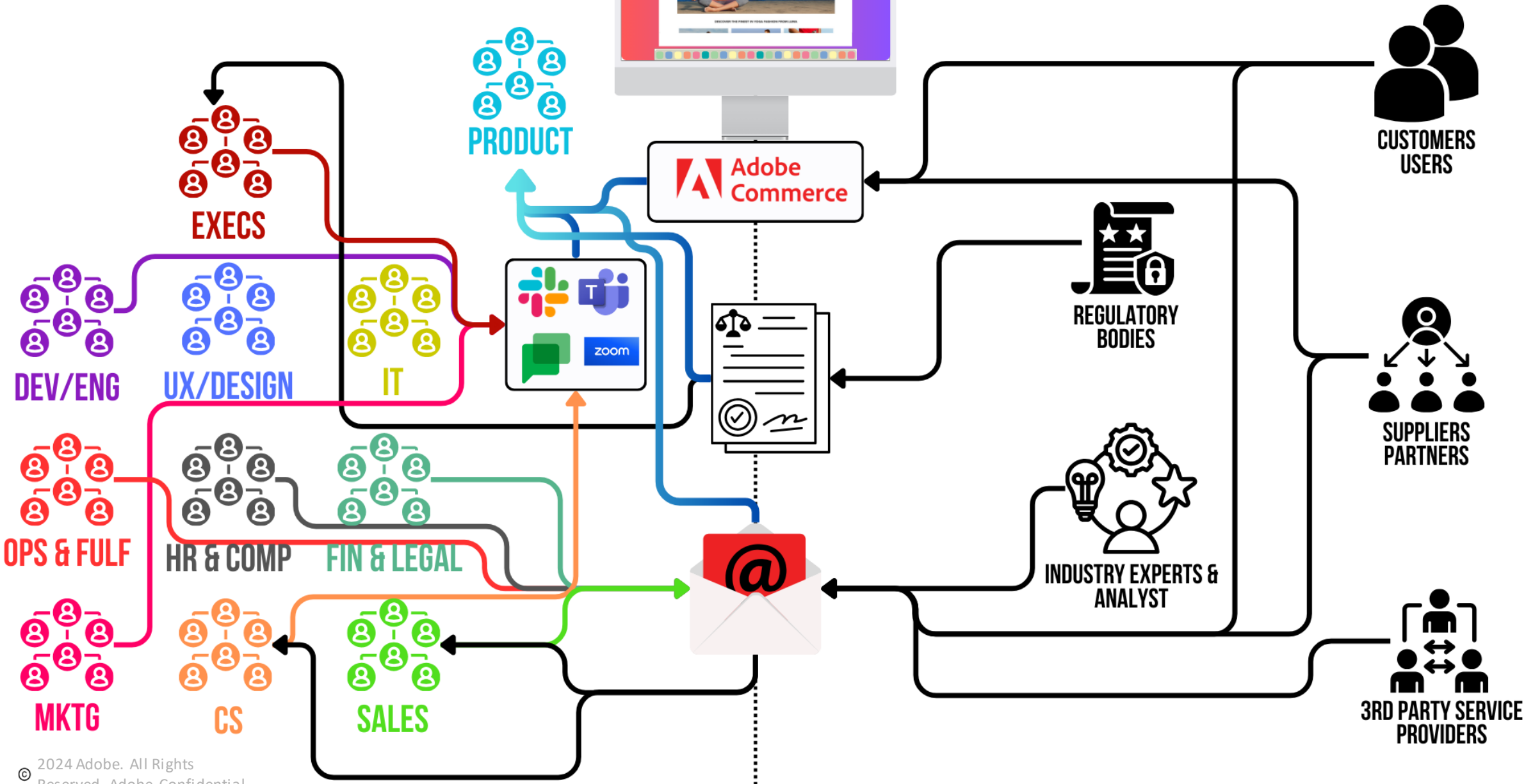
**INDUSTRY EXPERTS &
ANALYST**



**3RD PARTY SERVICE
PROVIDERS**

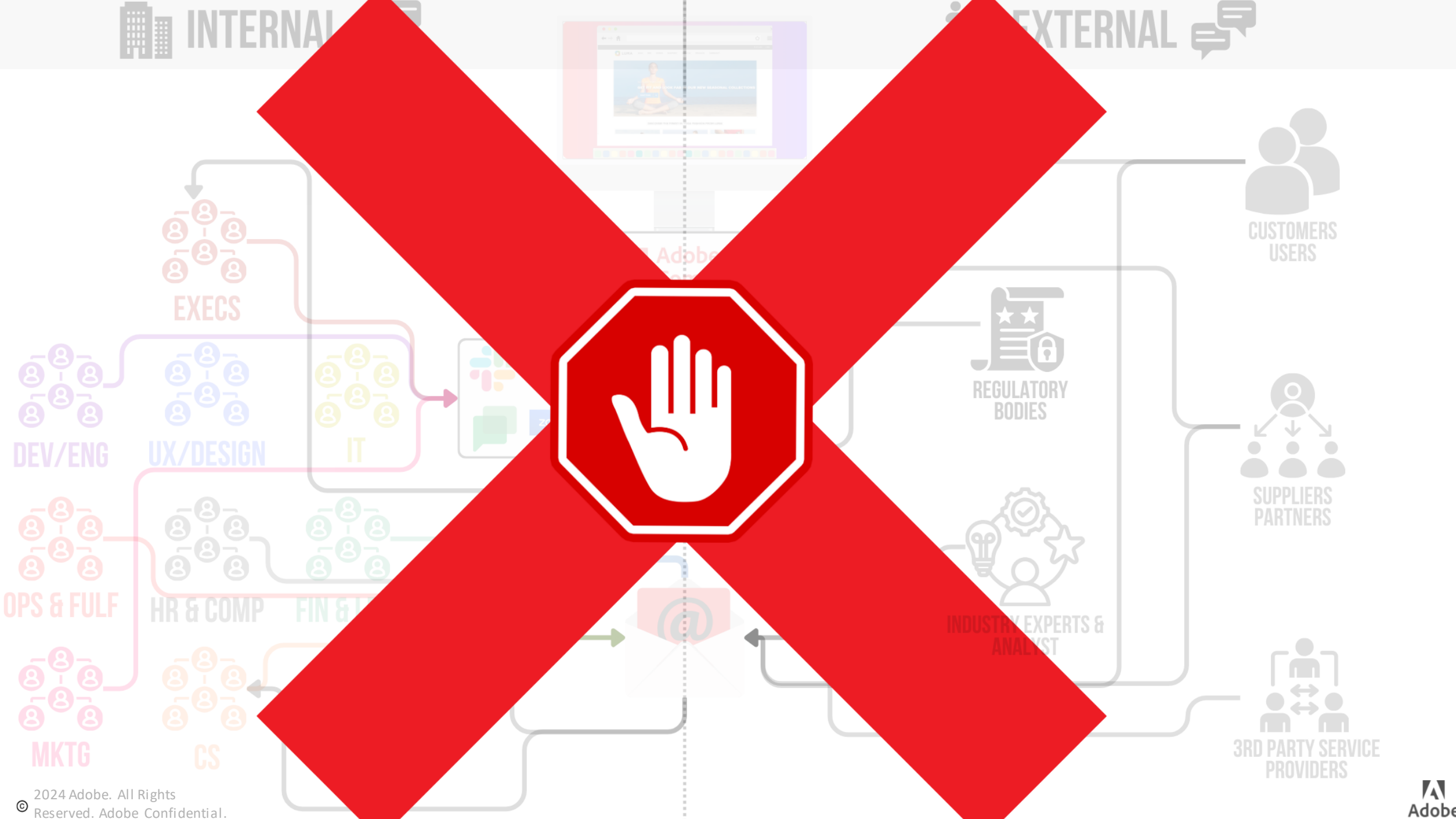
INTERNAL

EXTERNAL



INTERNAL

EXTERNAL



INTERNAL

EXTERNAL



IMPACT

- DELAYED TIME TO MARKET
- DECREASED PRODUCT QUALITY
- REDUCED TEAM MORALE AND PRODUCTIVITY
- COMPROMISED USER EXPERIENCE AND SATISFACTION

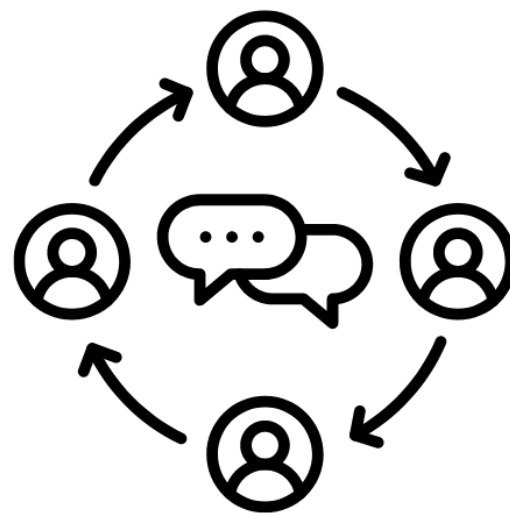


CUSTOMERS
USERS

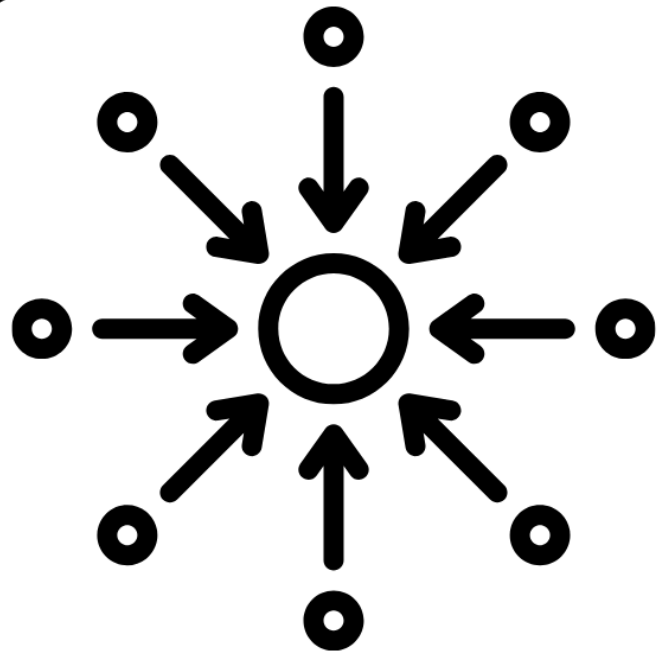
INDUSTRY EXPERTS &
ANALYST

3RD PARTY SERVICE
PROVIDERS

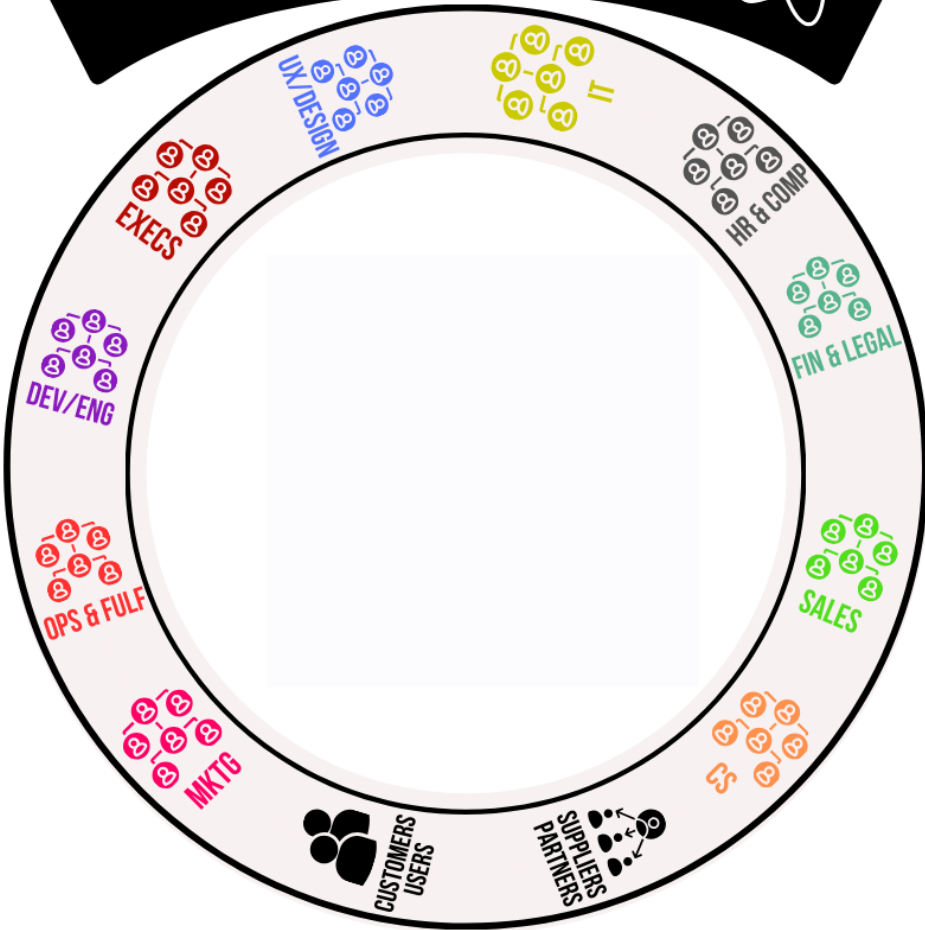
COMMUNICATION --- IMPLEMENTATION



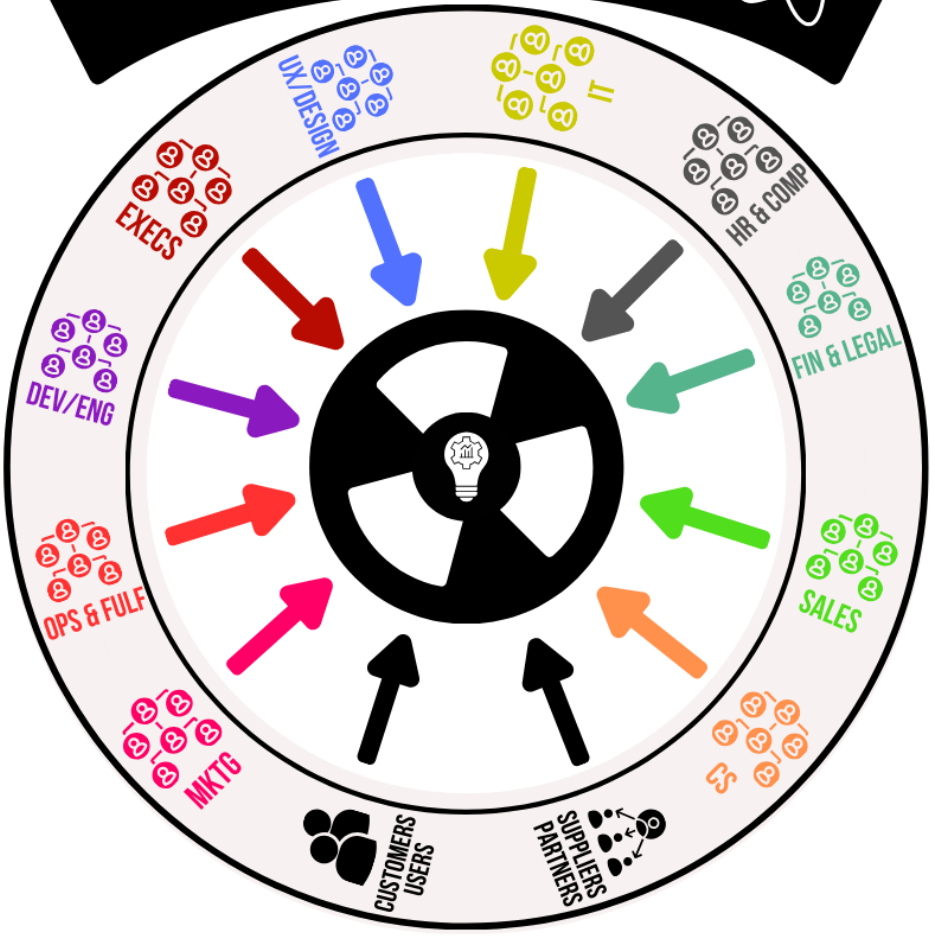
**INTERNAL + EXTERNAL
FEEDBACK CORE**



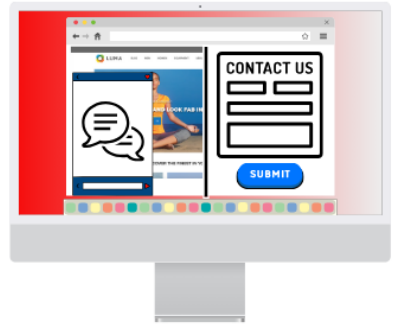
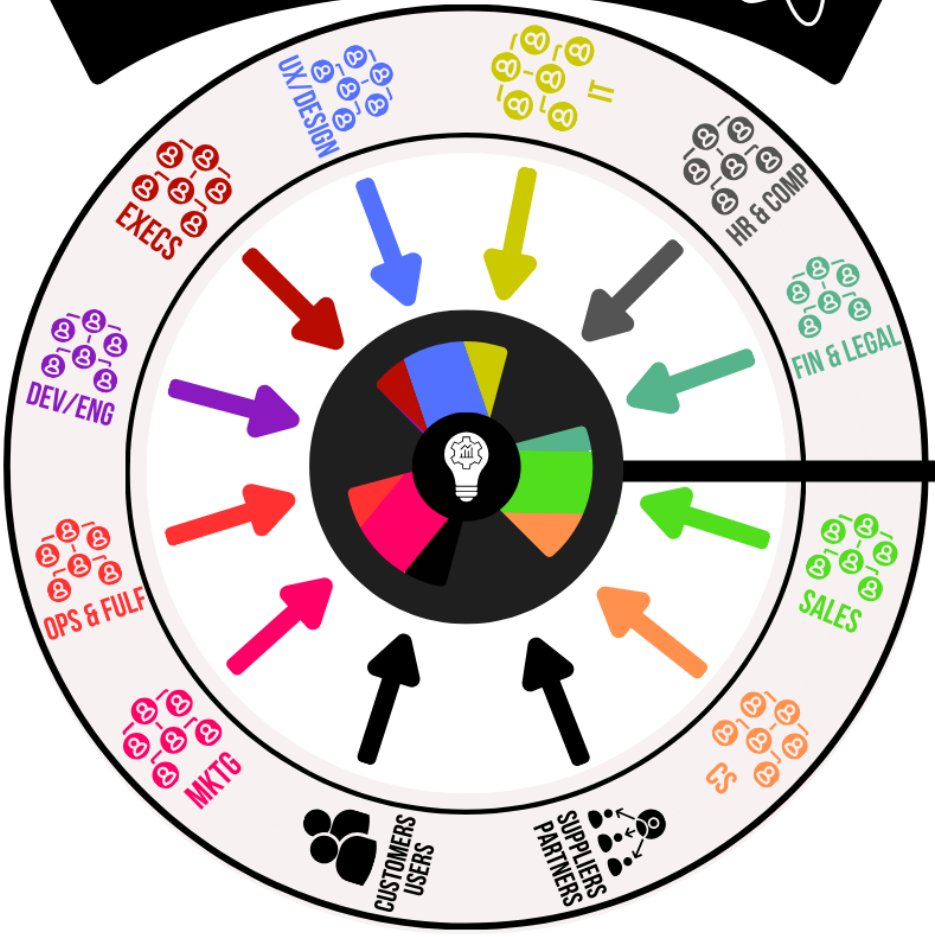
INTERNAL + EXTERNAL FEEDBACK CORE



INTERNAL + EXTERNAL FEEDBACK CORE

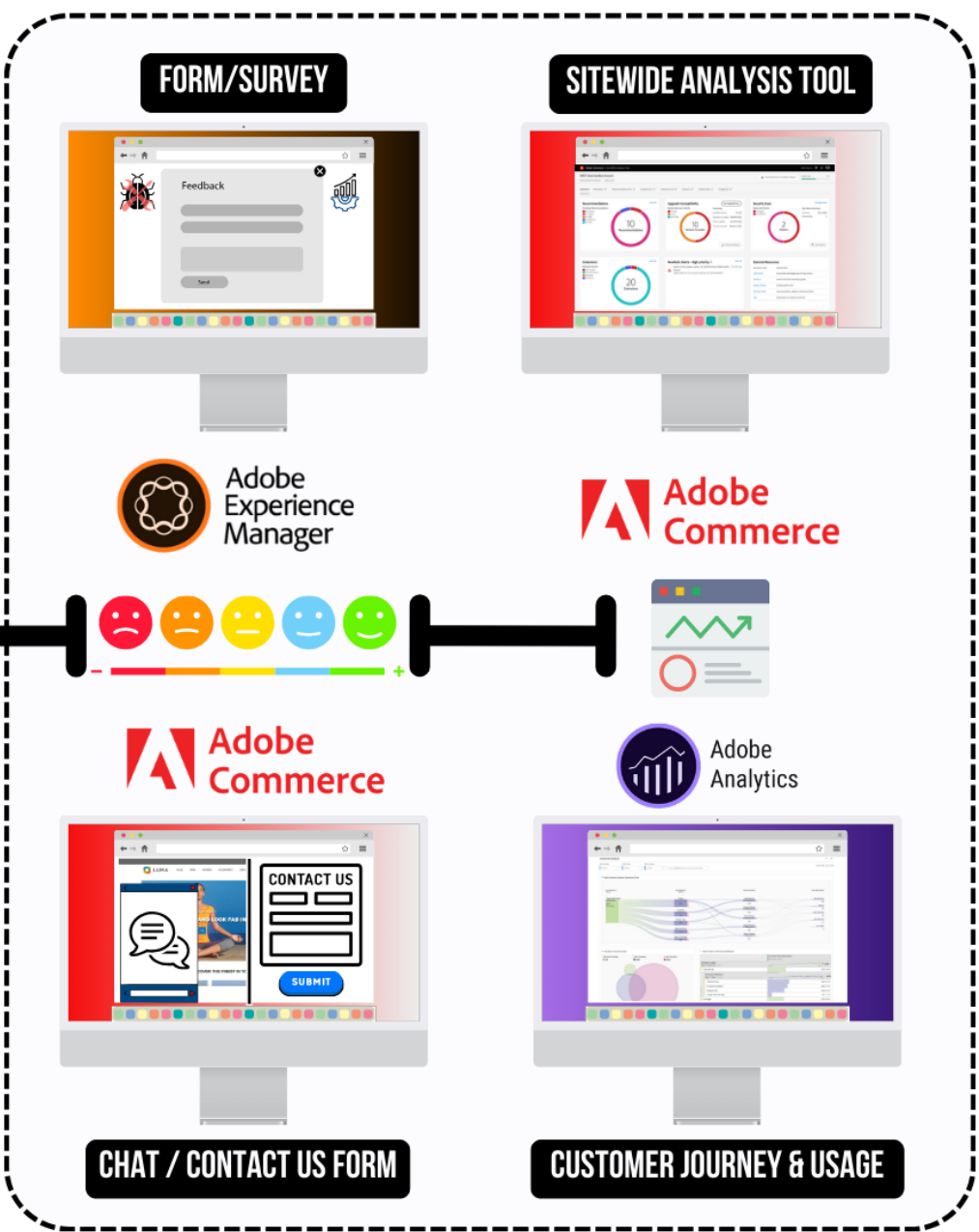
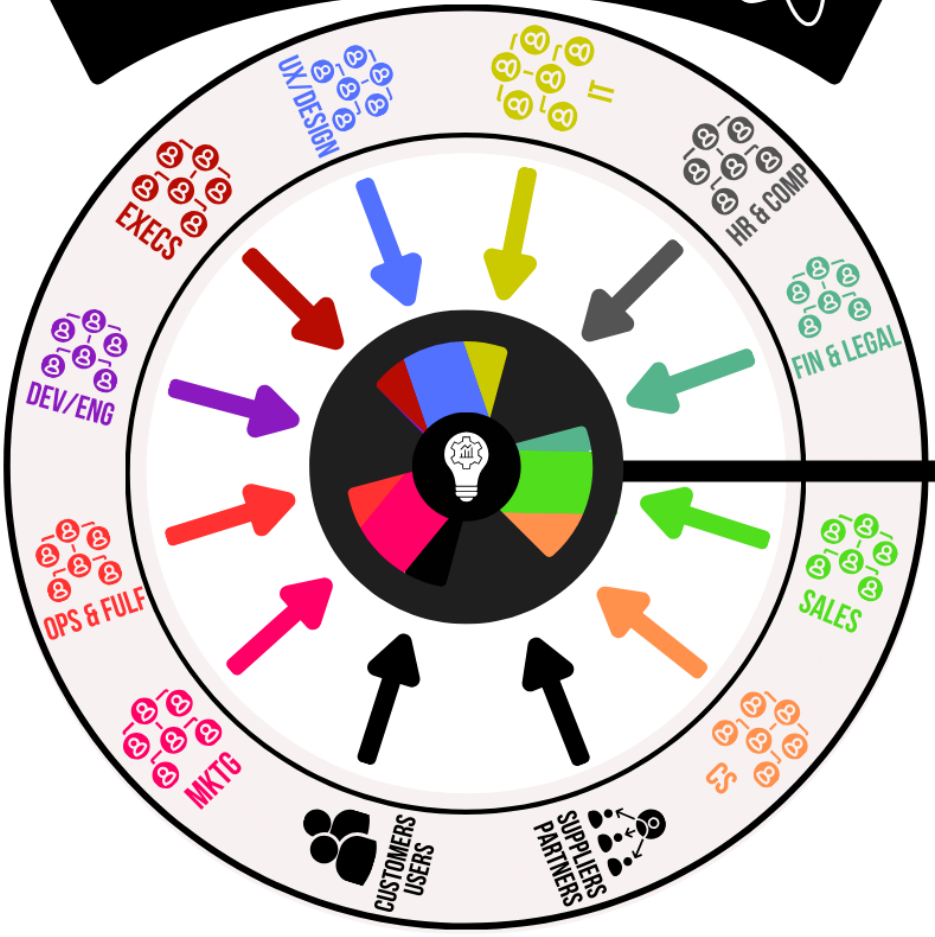


INTERNAL + EXTERNAL FEEDBACK CORE



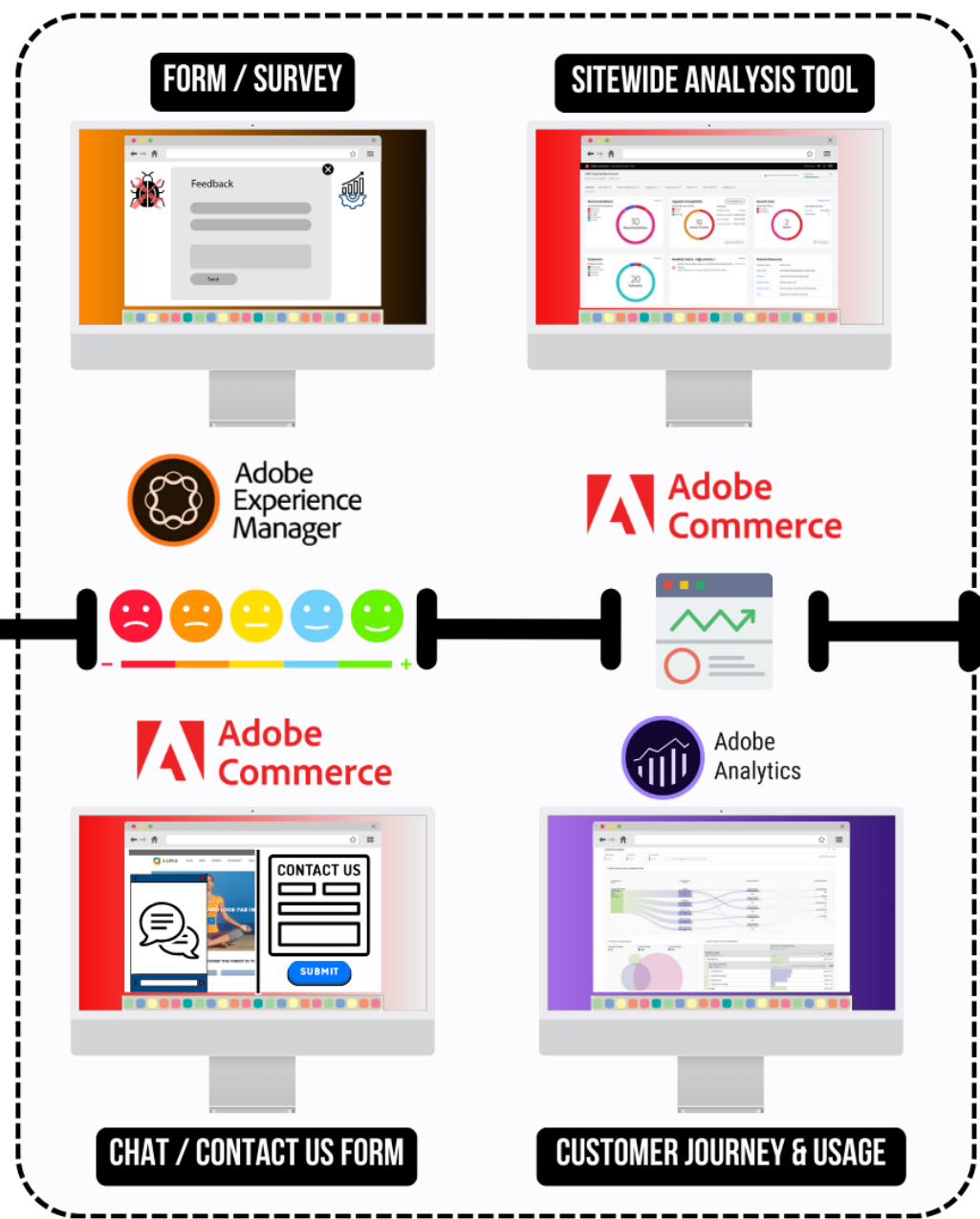
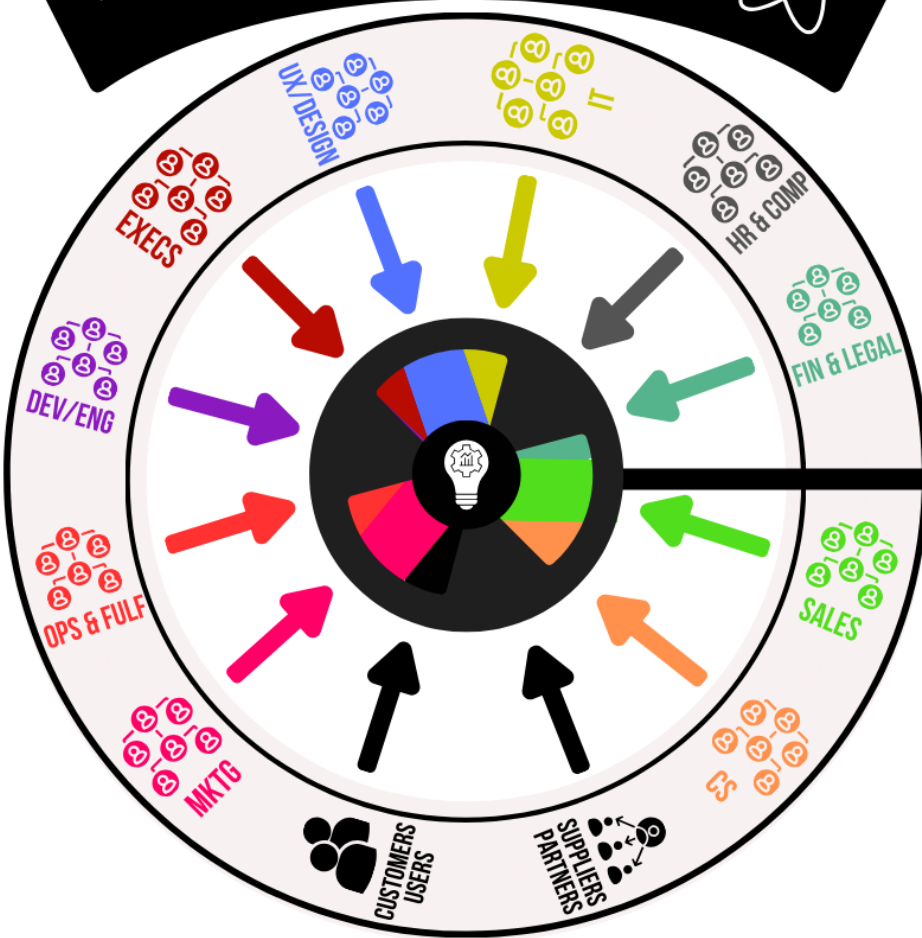
CHAT / CONTACT US FORM

INTERNAL + EXTERNAL FEEDBACK CORE



BACKLOG INFLUENCE

INTERNAL + EXTERNAL FEEDBACK CORE



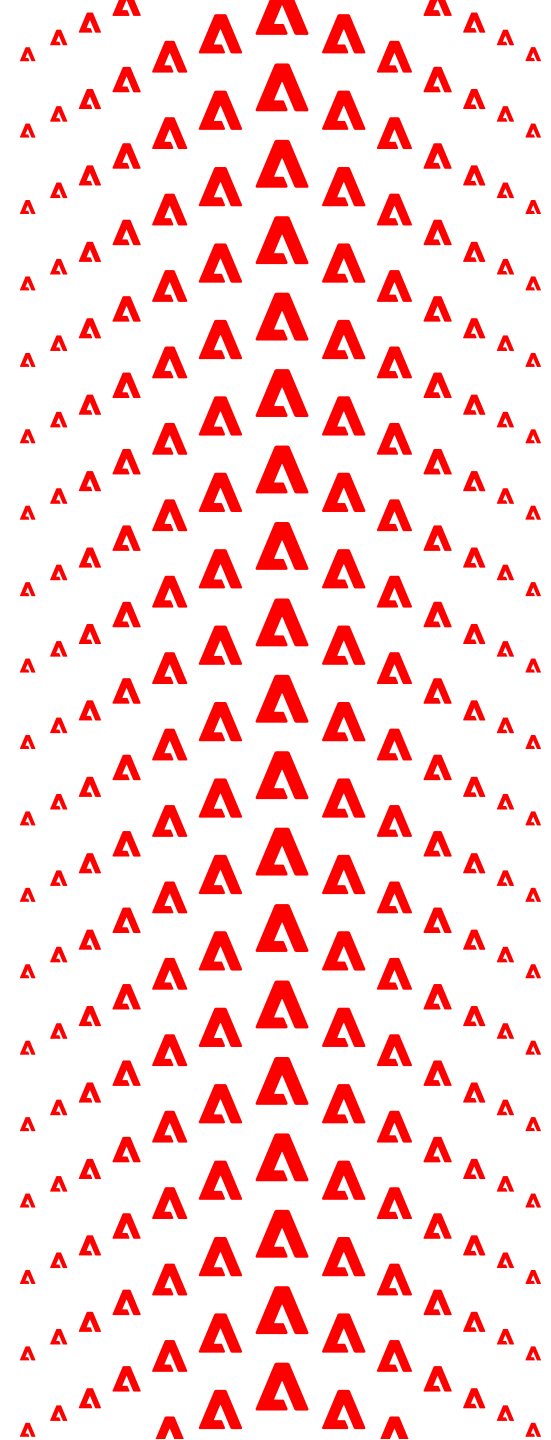
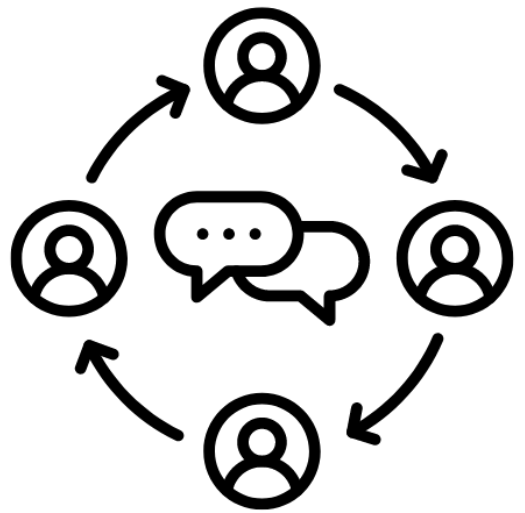
MANAGED BACKLOG



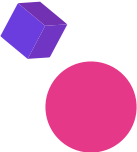
BACKLOG INFLUENCE

COMMUNICATION

IMPLEMENTING TRANSPARENCY



DEMO SCENARIO | INTERNAL ORGANIZATION TRANSPARENCY



The dashboard is titled "E-COMMERCE PRODUCT DEVELOPMENT DASHBOARD" and includes the Adobe Commerce logo. It features several key sections:

- PRIORITY LEVEL CLASSIFICATIONS:** A table with columns for "LEVEL" and "SLA".
- BUG & FEATURE REQUEST:** A section with a submit button.
- WEB CONTENT CHANGES:** A section with a submit button.
- RELEASE NOTES:** A section with a "View more" link.
- TEAM:** A list of team members: Lily Greenfield, Jasmine Solaris, and Rowan Leafwood.
- SPRINT TIMELINE:** A section showing a timer for the current sprint.
- BACKLOG and CURRENTLY IN DEVELOPMENT:** Two columns at the bottom for task tracking.

LEVEL	SLA
URGENT:	< 1 HR
HIGH:	< 24 HRS
LOW:	1-3 DAYS

BACKLOG	CURRENTLY IN DEVELOPMENT

SPRINT TIMELINE

00:01

CURRENT SPRINT



E-COMMERCE PRODUCT DEVELOPMENT DASHBOARD | Adobe Commerce

PRIORITY LEVEL CLASSIFICATIONS

LEVEL	SLA
URGENT: <i>[Handwritten signature]</i>	< 1 HR
HIGH: <i>[Handwritten signature]</i>	< 24 HRS
LOW: <i>[Handwritten signature]</i>	1-3 DAYS

BUG & FEATURE REQUEST

[SUBMIT](#)

WEB CONTENT CHANGES

[SUBMIT](#)

RELEASE NOTES

[View more](#)

TEAM

- LILY GREENFIELD
- JASMINE SOLARIS
- ROWAN LEAFWOOD

SPRINT TIMELINE

CURRENT SPRINT

BACKLOG

Item

CURRENTLY IN DEVELOPMENT

Item



E-COMMERCE PRODUCT DEVELOPMENT DASHBOARD | Adobe Commerce

PRIORITY LEVEL CLASSIFICATIONS

LEVEL	SLA
URGENT:	< 1 HR
HIGH:	< 24 HRS
LOW:	1-3 DAYS

BUG & FEATURE REQUEST | **WEB CONTENT CHANGES** | **RELEASE NOTES**

SUBMIT | **SUBMIT** | [View more](#)

TEAM

- LILY GREENFIELD
- JASMINE SOLARIS
- ROWAN LEAFWOOD

SPRINT TIMELINE

CURRENT SPRINT

BACKLOG

Item

CURRENTLY IN DEVELOPMENT

Item



E-COMMERCE PRODUCT DEVELOPMENT DASHBOARD | Adobe Commerce

PRIORITY LEVEL CLASSIFICATIONS

LEVEL	SLA
URGENT:	< 1 HR
HIGH:	< 24 HRS
LOW:	1-3 DAYS

BUG & FEATURE REQUEST | **WEB CONTENT CHANGES** | **RELEASE NOTES**

| | [View more](#)

TEAM

- LILY GREENFIELD
- JASMINE SOLARIS
- ROWAN LEAFWOOD

BACKLOG | **CURRENTLY IN DEVELOPMENT**

BACKLOG	CURRENTLY IN DEVELOPMENT

SPRINT TIMELINE

CURRENT SPRINT



E-COMMERCE PRODUCT DEVELOPMENT DASHBOARD | Adobe Commerce

PRIORITY LEVEL CLASSIFICATIONS

LEVEL	SLA
URGENT:	< 1 HR
HIGH:	< 24 HRS
LOW:	1-3 DAYS

BUG & FEATURE REQUEST | **WEB CONTENT CHANGES** | **RELEASE NOTES**

| | [View more](#)

TEAM

- LILY GREENFIELD
- JASMINE SOLARIS
- ROWAN LEAFWOOD

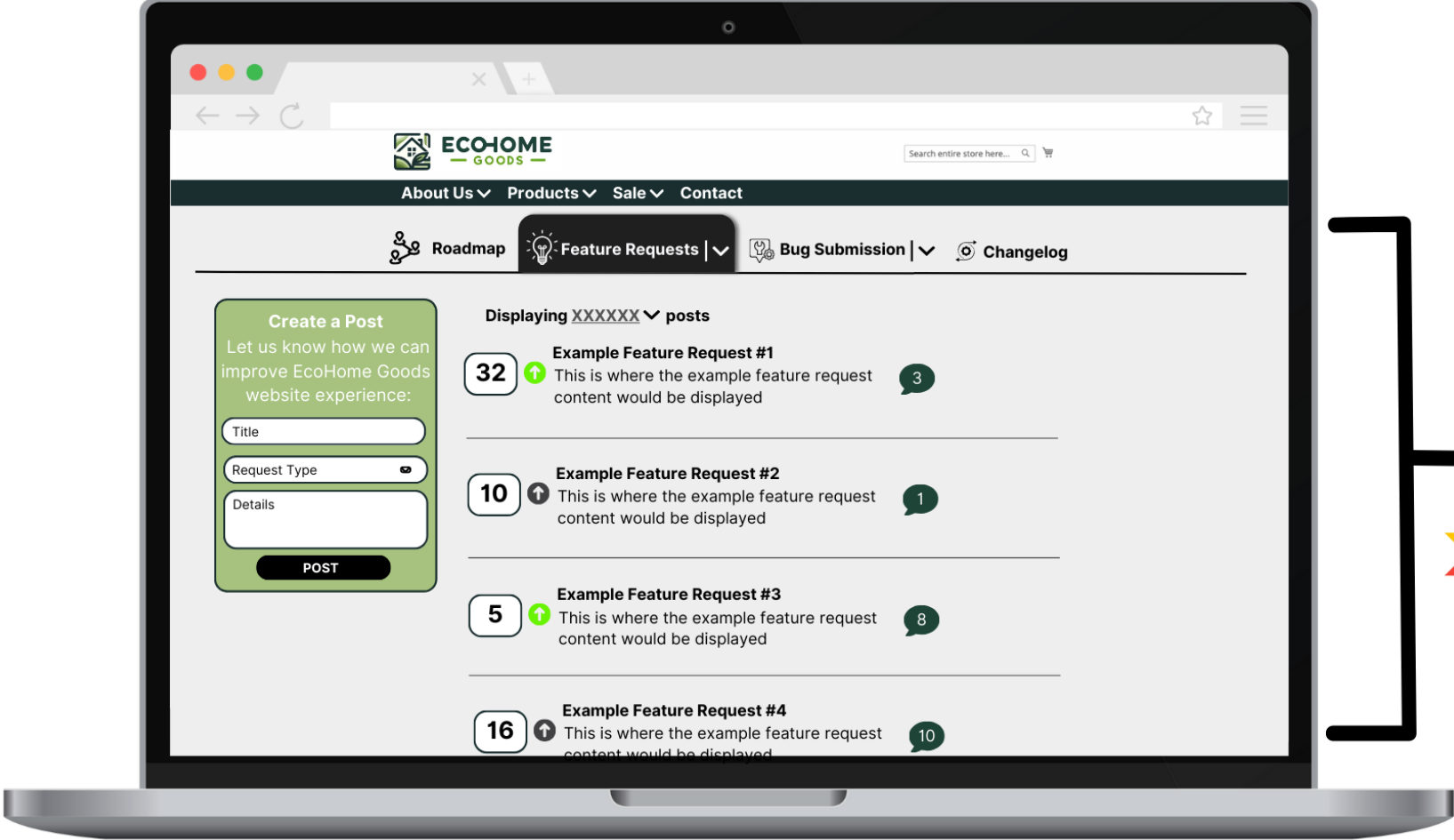
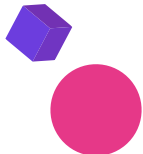
BACKLOG | **CURRENTLY IN DEVELOPMENT**

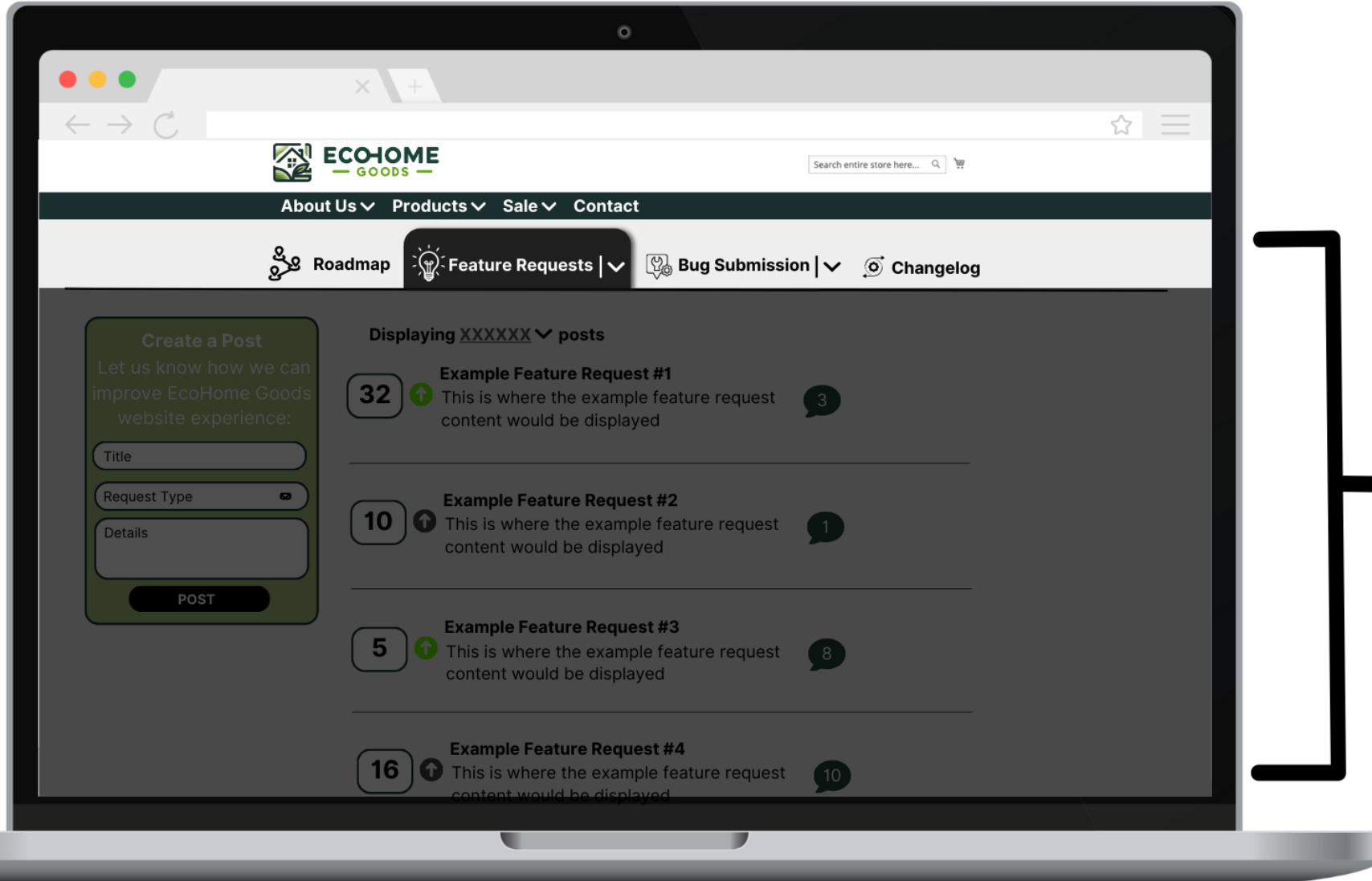
BACKLOG	CURRENTLY IN DEVELOPMENT

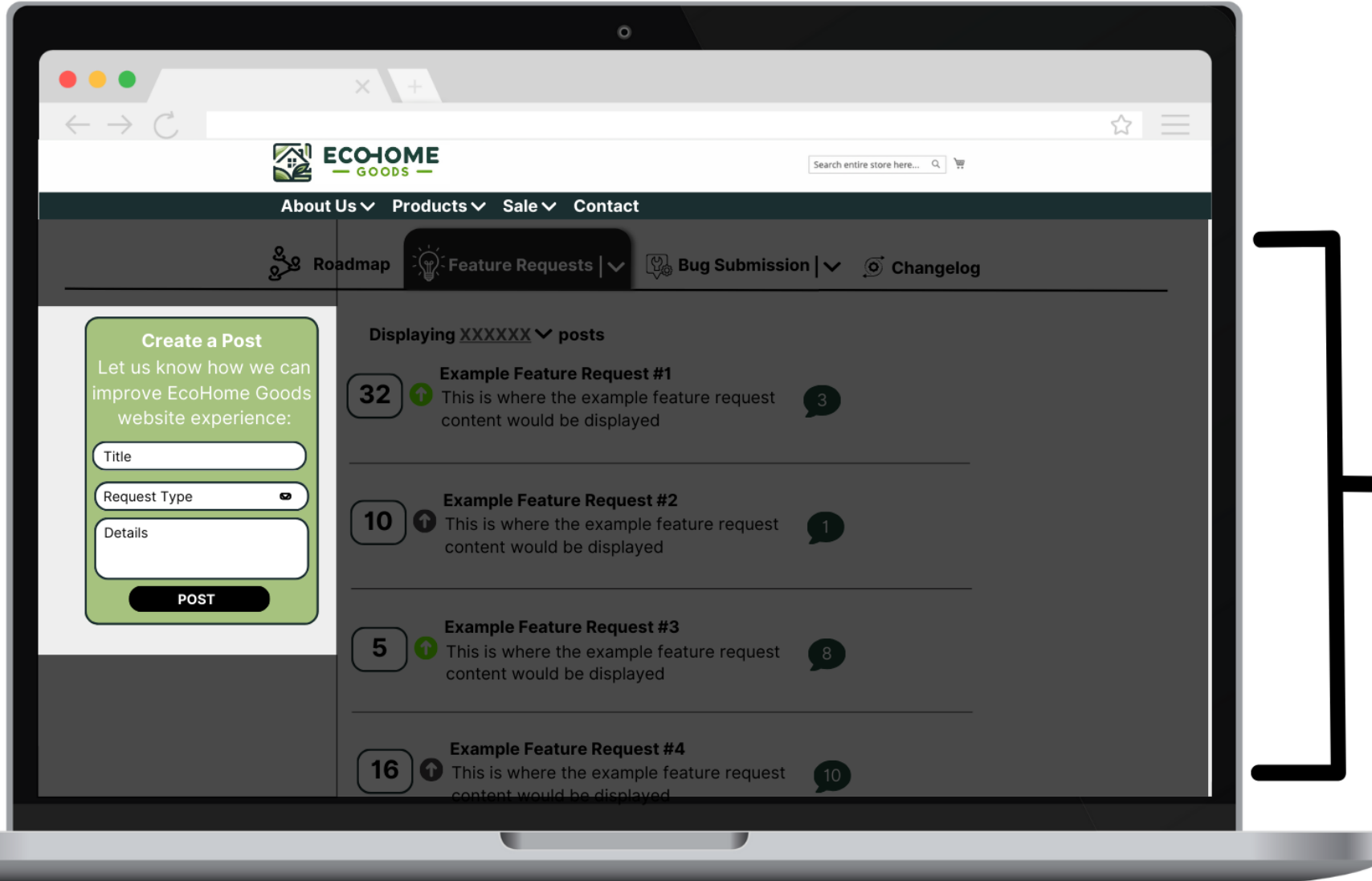
SPRINT TIMELINE

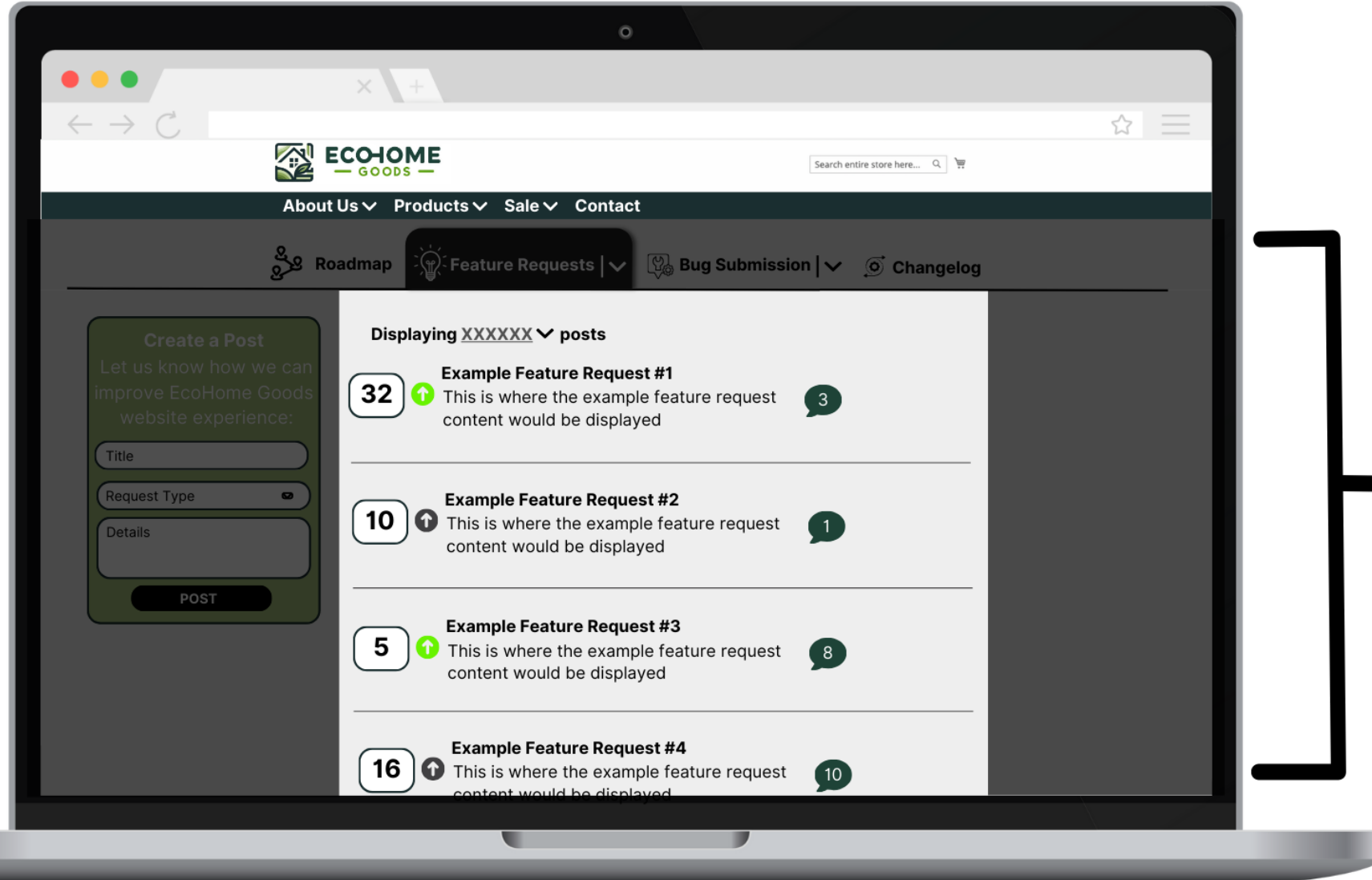
00:04
CURRENT SPRINT









DEMO SCENARIO | EXTERNAL ORGANIZATION TRANSPARENCY



 canny pendo productboard



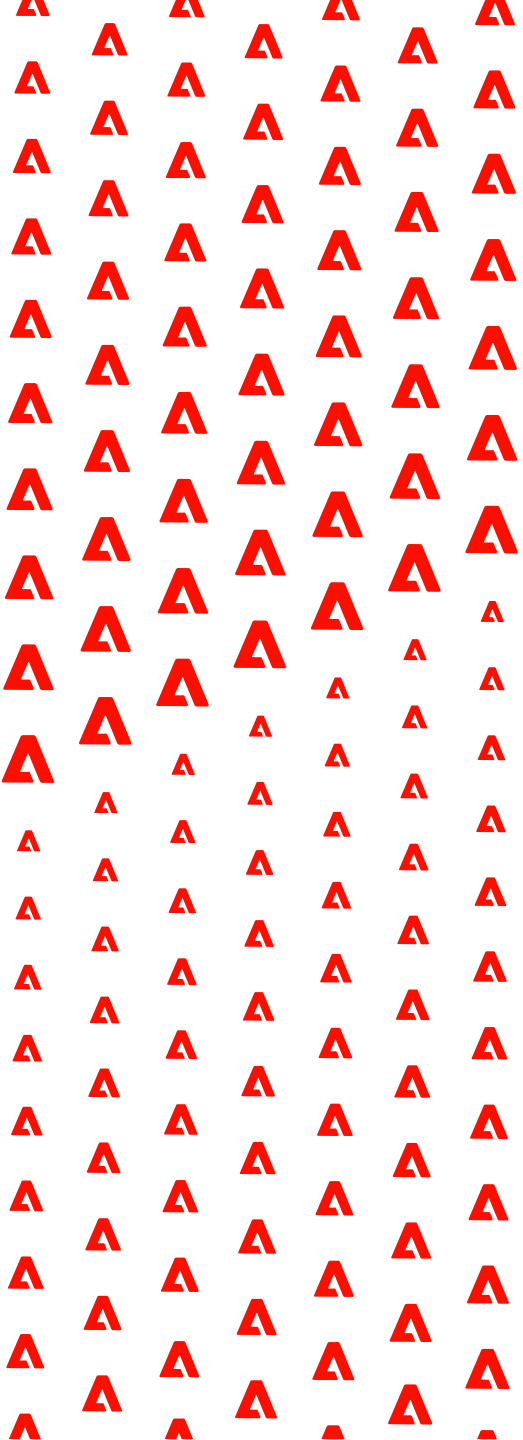
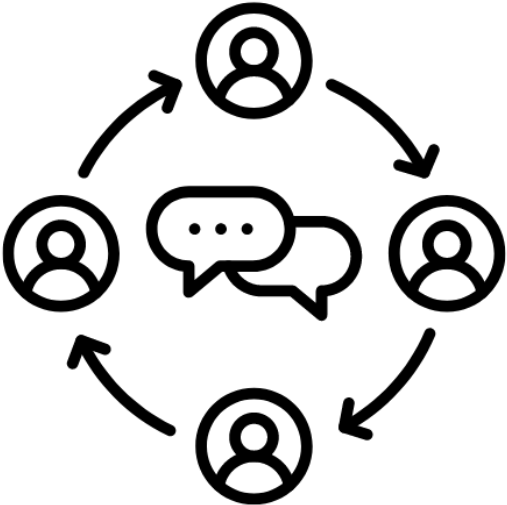


- Displaying XXXXXX posts
- 32**  **Example Feature Request #1**
This is where the example feature request content would be displayed 
 - 10**  **Example Feature Request #2**
This is where the example feature request content would be displayed 
 - 5**  **Example Feature Request #3**
This is where the example feature request content would be displayed 
 - 16**  **Example Feature Request #4**
This is where the example feature request content would be displayed 



COMMUNICATION

PRACTICAL EXAMPLE



ENHANCING PRODUCT DETAIL PAGES

Cross-Functional Insights:

Sales highlight queries on eco-friendliness, customer support on sustainability certifications, and development notes high bounce rates on product detail pages.

Communication Tools:

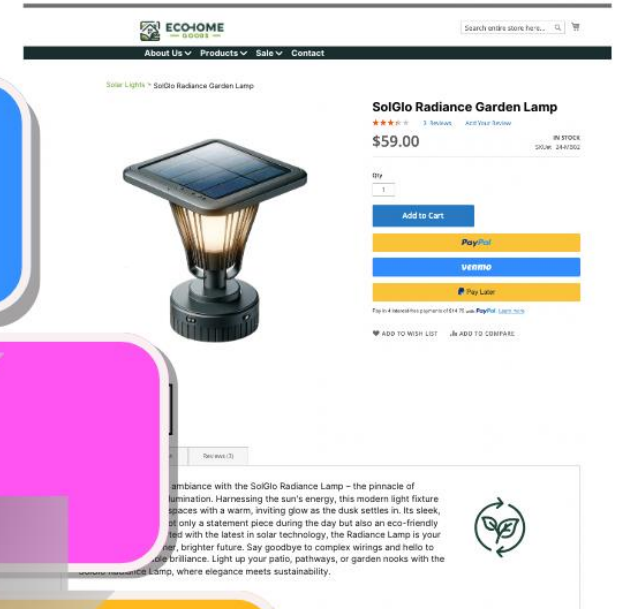
Utilizing product development dashboard for request transparency, Workfront for task management, and creating a prioritized list focusing on material transparency and environmental impact.

Customer-Driven Enhancements:

Customer feedback, gathered through targeted email surveys and an interactive section on the website, reveals a strong interest in understanding the environmental impact of their purchases. Customers would like more information on how products contribute to a sustainable lifestyle

Prioritization Strategy:

Analysis of website traffic and engagement metrics indicates that pages featuring detailed eco-certifications and engaging stories about product origin and environmental impact see significantly higher engagement and conversion rates.



TEST CASES



Solar Lights > SolGlo Radiance Garden Lamp



SolGlo Radiance Garden Lamp

★★★★☆ 3 Reviews Add Your Review

\$59.00

IN STOCK
SKU#: 24-MB02

Qty

1

Add to Cart

PayPal

venmo

Pay Later

Pay in 4 interest-free payments of \$14.75 with [PayPal](#). [Learn more](#)

ADD TO WISH LIST ADD TO COMPARE



Details More Information Reviews (3)

Elevate your garden's ambiance with the SolGlo Radiance Lamp – the pinnacle of sustainable outdoor illumination. Harnessing the sun's energy, this modern light fixture imbues your outdoor spaces with a warm, inviting glow as the dusk settles in. Its sleek, geometric design is not only a statement piece during the day but also an eco-friendly beacon by night. Crafted with the latest in solar technology, the Radiance Lamp is your step towards a greener, brighter future. Say goodbye to complex wirings and hello to effortless, renewable brilliance. Light up your patio, pathways, or garden nooks with the SolGlo Radiance Lamp, where elegance meets sustainability.



Air Purifiers > GreenBreathe EcoPurifier



GreenBreathe EcoPurifier

★★★★★ 40 reviews Add Your Review

\$89.00

IN STOCK
SKU#: 24-MB02

Qty

1

Add to Cart

PayPal

venmo

Pay Later

Pay in 4 interest-free payments of \$14.75 with [PayPal](#). [Learn more](#)

ADD TO WISH LIST ADD TO COMPARE



GreenBreathe EcoPurifier: Breathe Naturally, Live Sustainably

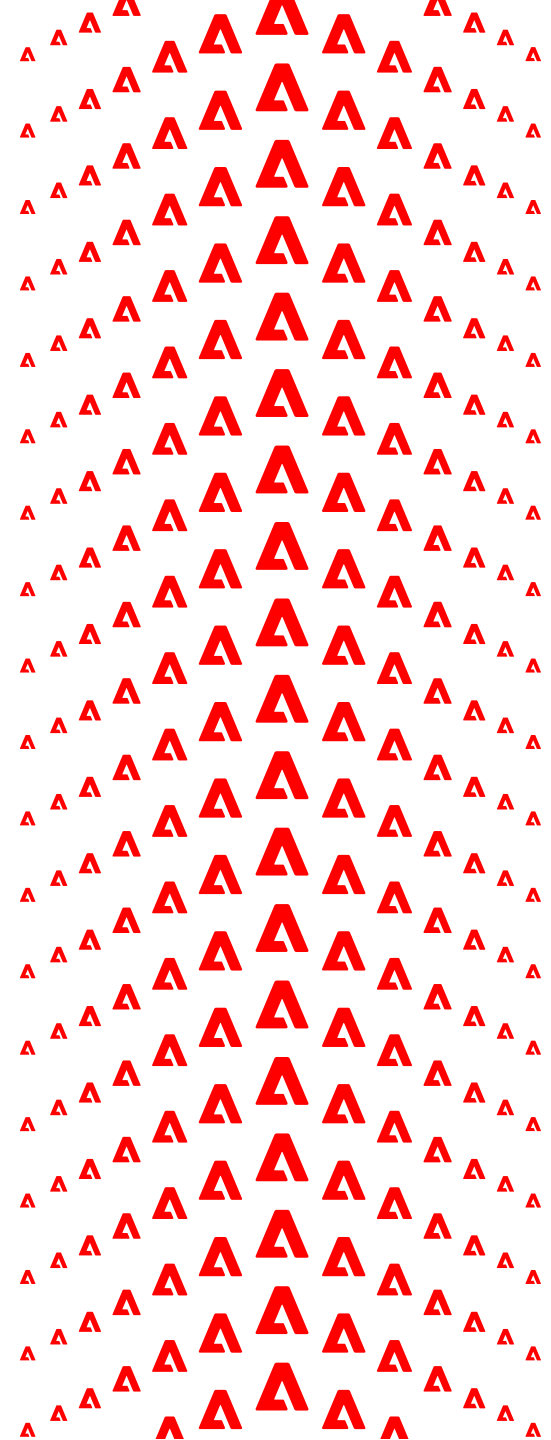
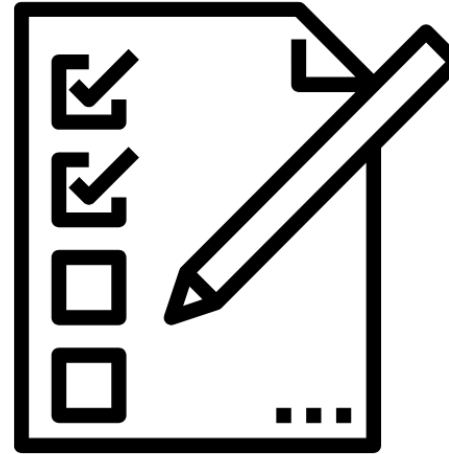
Discover the purity of nature with every breath you take, thanks to the GreenBreathe EcoPurifier. Certified by the Global Eco-Environmental Standards (GEES), this innovative air purifier is a testament to sustainable design and responsible innovation.

Crafted from biodegradable materials sourced from responsibly-managed forests, the EcoPurifier's journey begins in the lush greenery of the Amazon. Local artisans, committed to traditional practices that honor the earth's resources, skillfully shape each purifier. This not only provides you with a product steeped in heritage but also supports the livelihoods of indigenous communities.

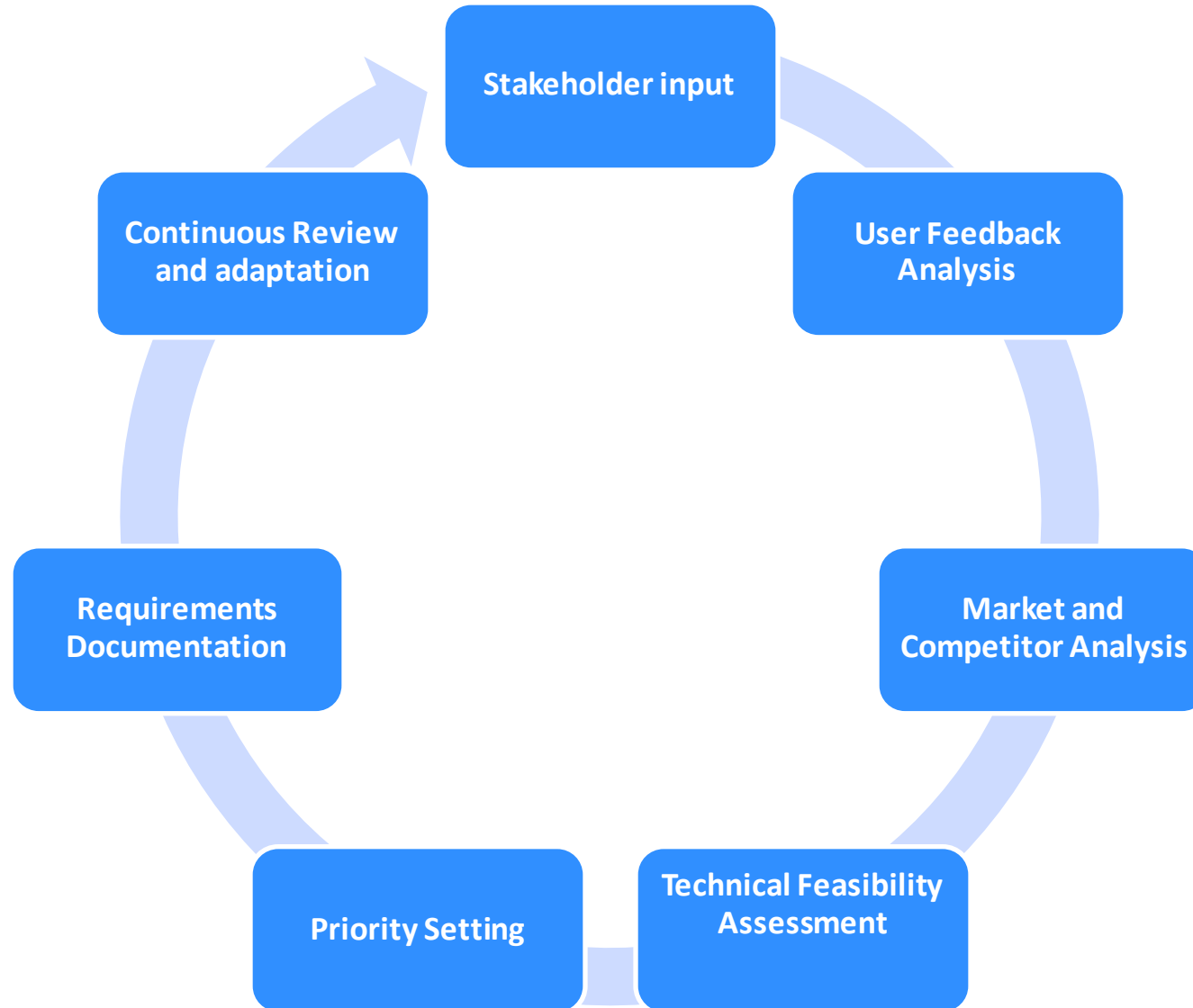
Our patented **PlantSync™** technology integrates living plants into the filtration process, transforming harmful pollutants into clean air, just as nature intended. By harnessing the phytoremediation power of plants, the EcoPurifier doesn't just filter your air; it revitalizes it, contributing to a healthier planet by reducing indoor air pollutants known to impact climate change.

The EcoPurifier's impact resonates beyond its immediate surroundings. For every unit sold, we pledge to plant a tree, reinforcing our commitment to reforestation efforts and CO2 reduction. Embrace the GreenBreathe EcoPurifier, and join us on a journey towards a cleaner, greener, and more sustainable future.

REQUIREMENTS ANALYSIS & PLANNING

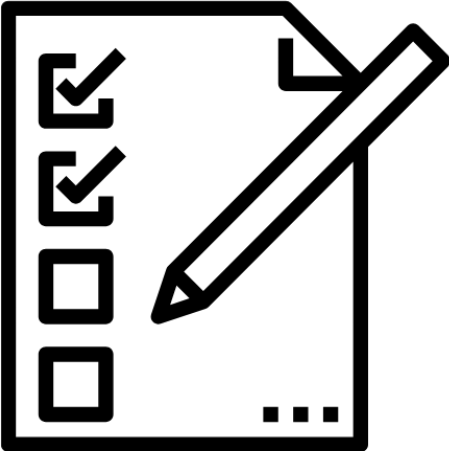


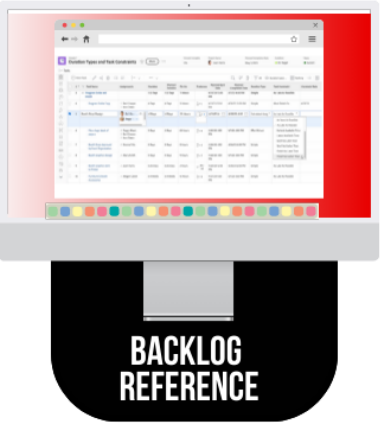
Requirements Process

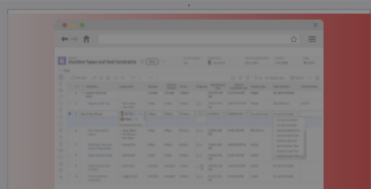


REQUIREMENTS

IMPLEMENTATION



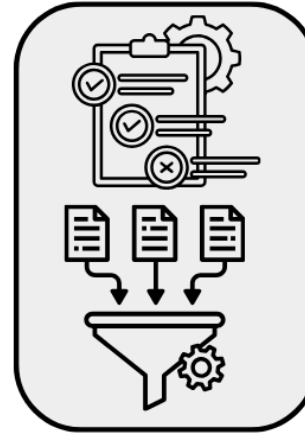


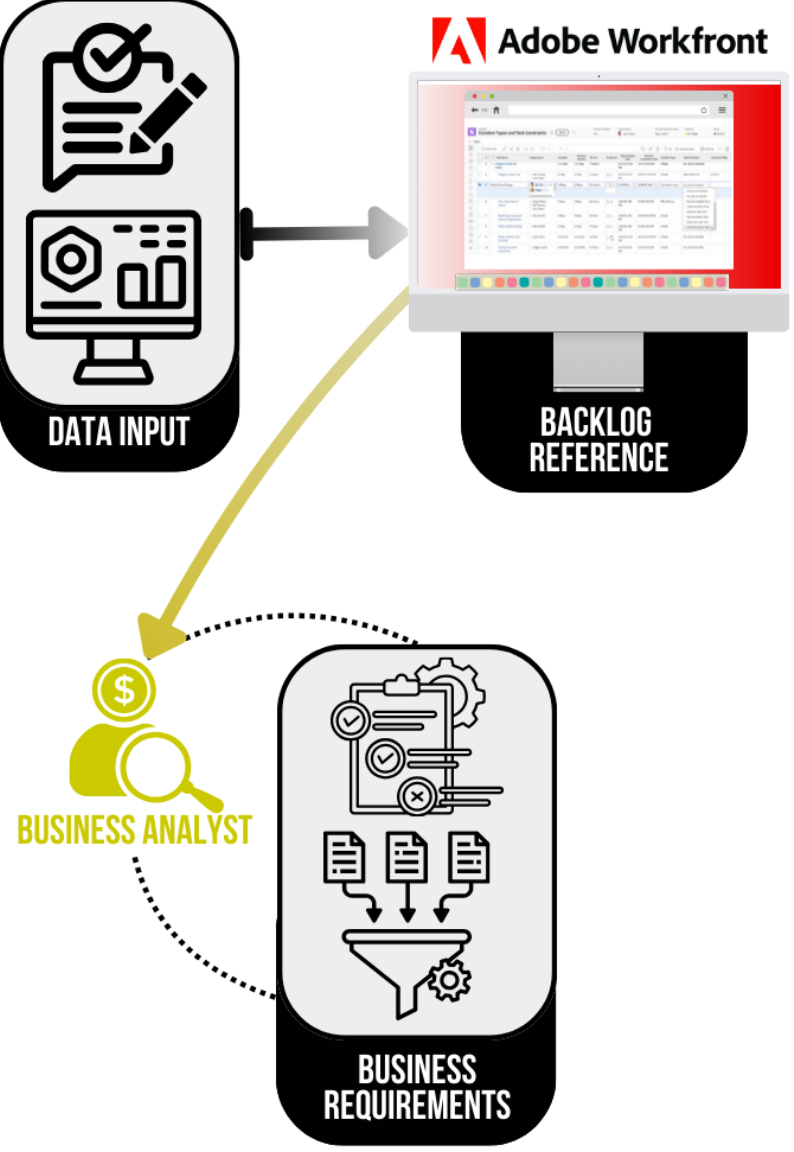


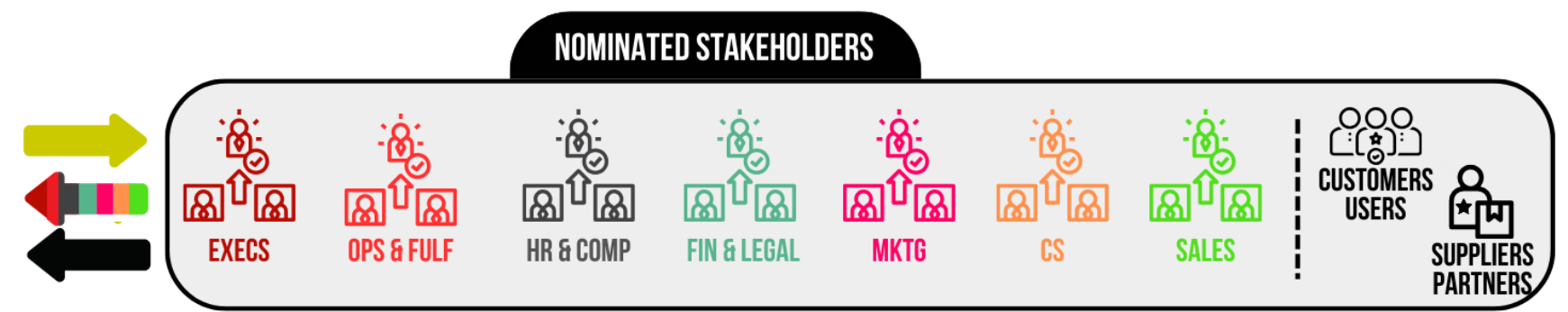
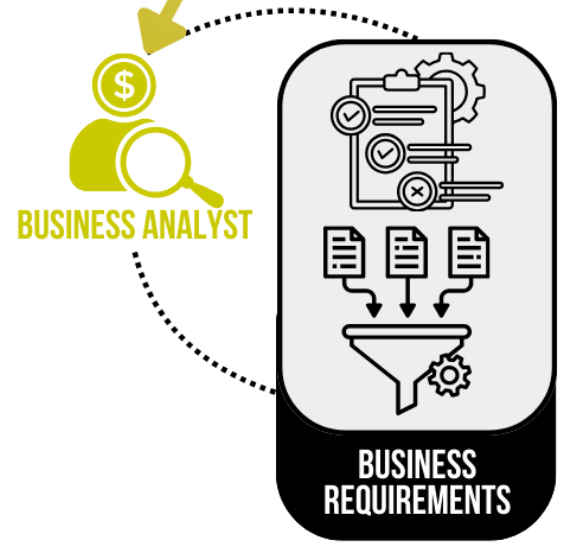
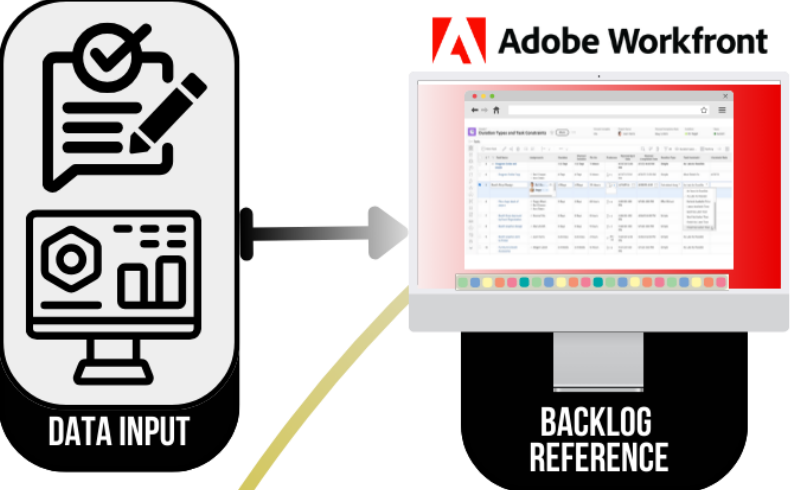
ROLE RESPONSIBILITIES

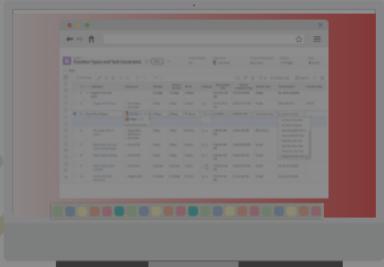


1. ANALYZE REQUESTS
2. GATHER REQUIREMENTS
3. PRIORITIZE NEEDS
4. DOCUMENT SPECIFICATIONS
5. FACILITATE COMMUNICATION

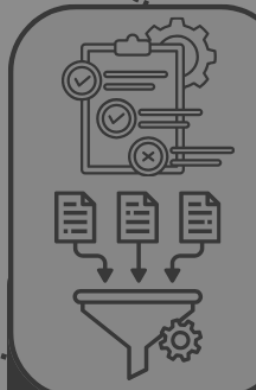








BUSINESS ANALYST



BUSINESS REQUIREMENTS

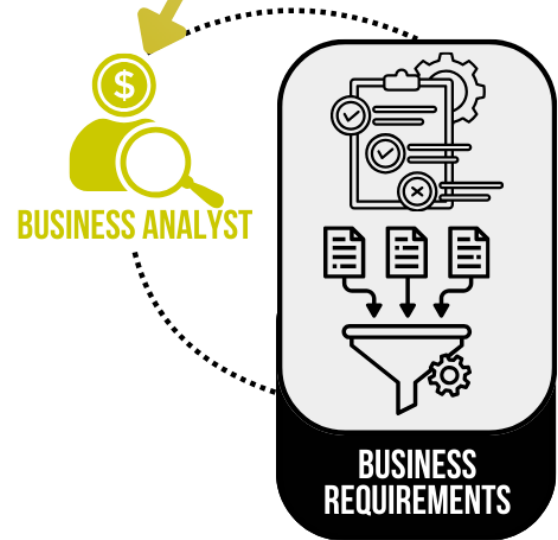
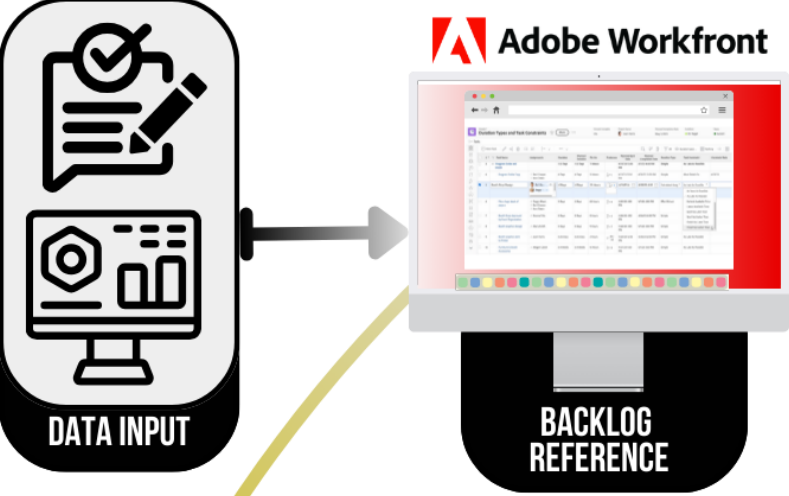
ROLE RESPONSIBILITIES



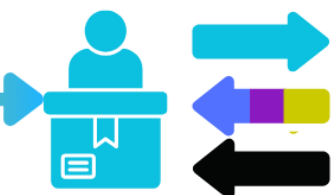
PRODUCT OWNER

1. REVIEW AND REFINE
2. BACKLOG PRIORITIZATION
3. DEFINE SPRINT GOALS
4. COLLABORATE WITH THE TEAM
5. STAKEHOLDER COMMUNICATION



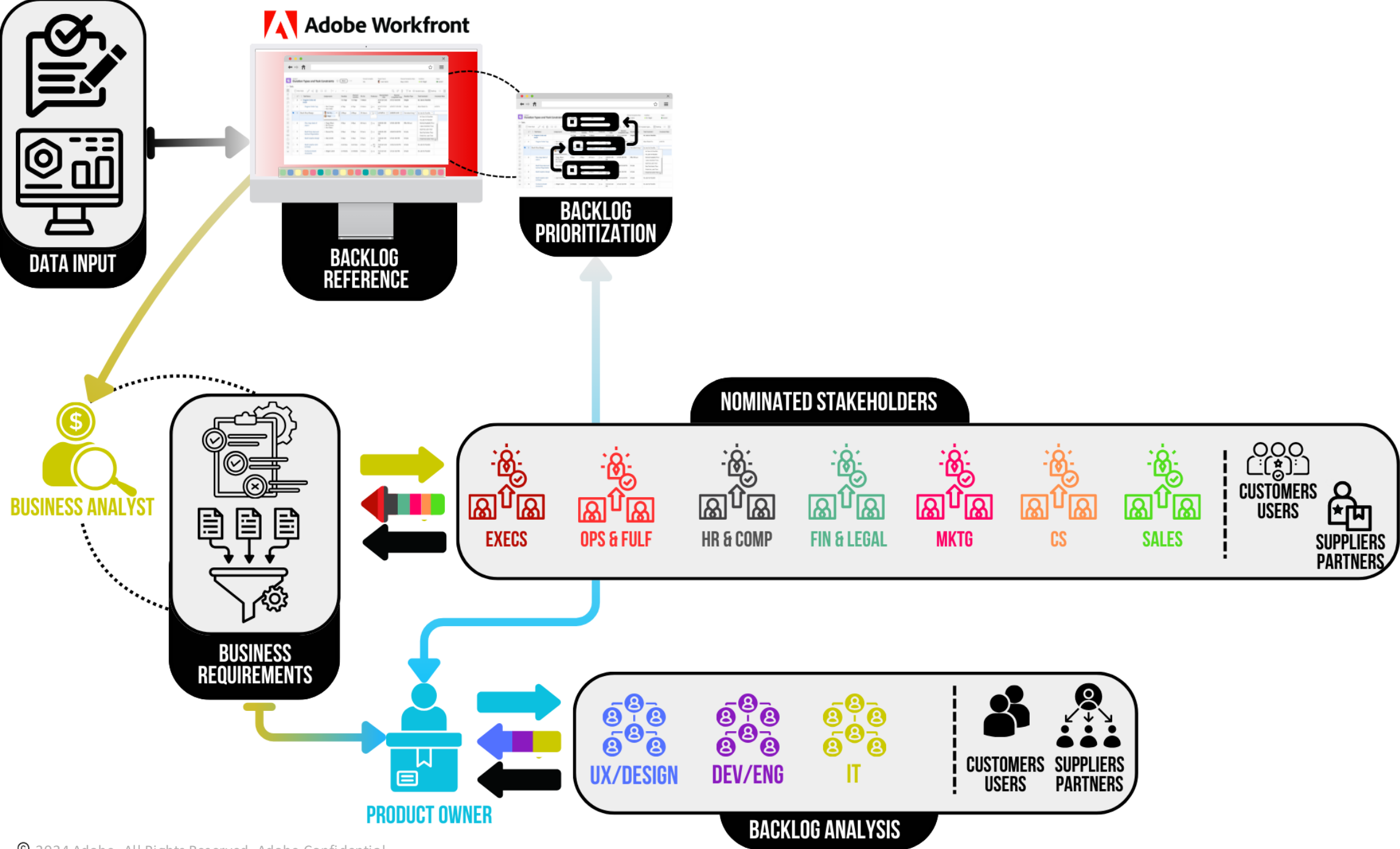


NOMINATED STAKEHOLDERS

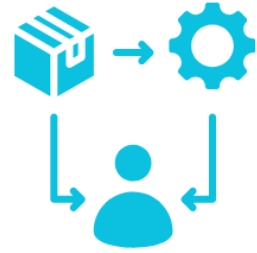


BACKLOG ANALYSIS



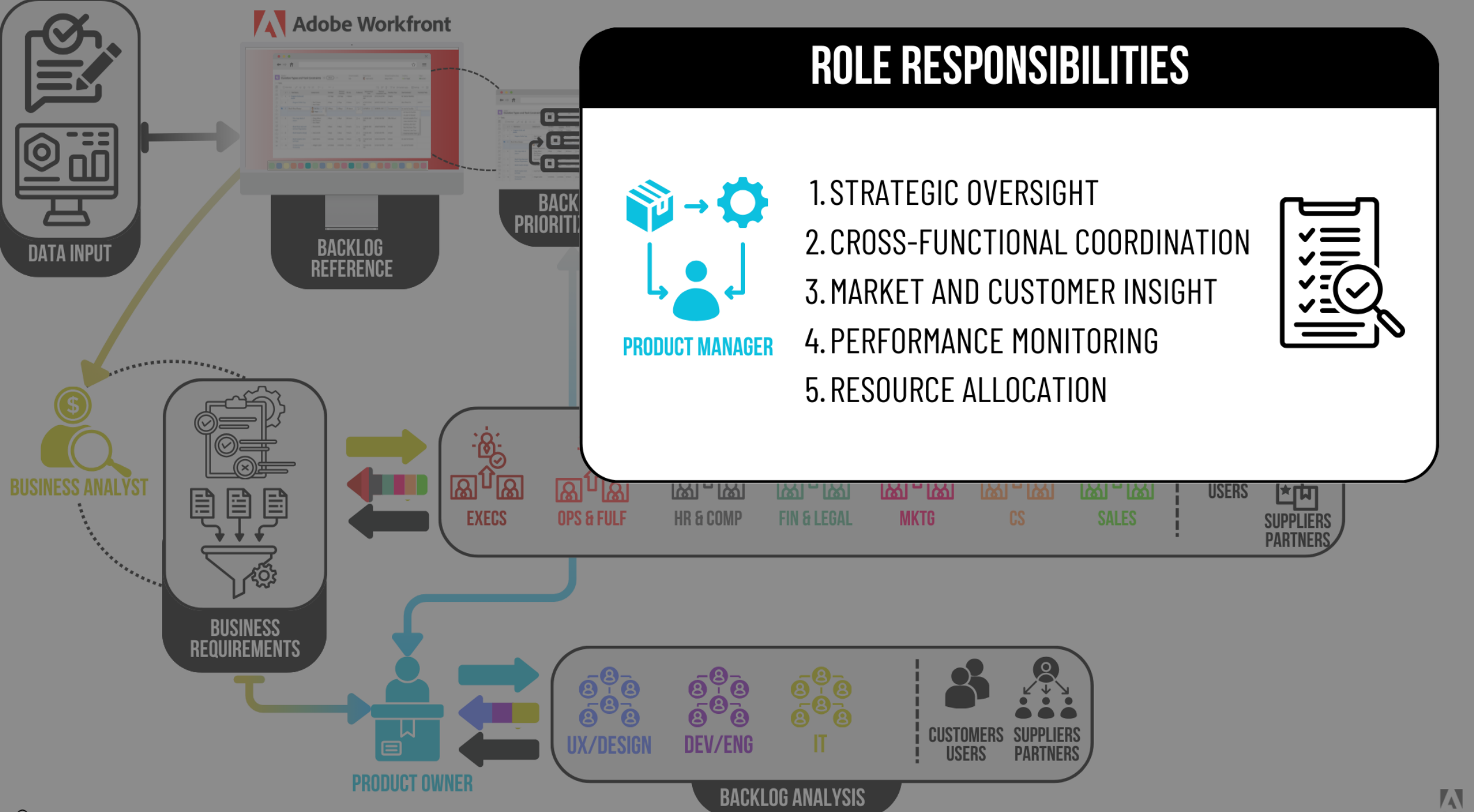


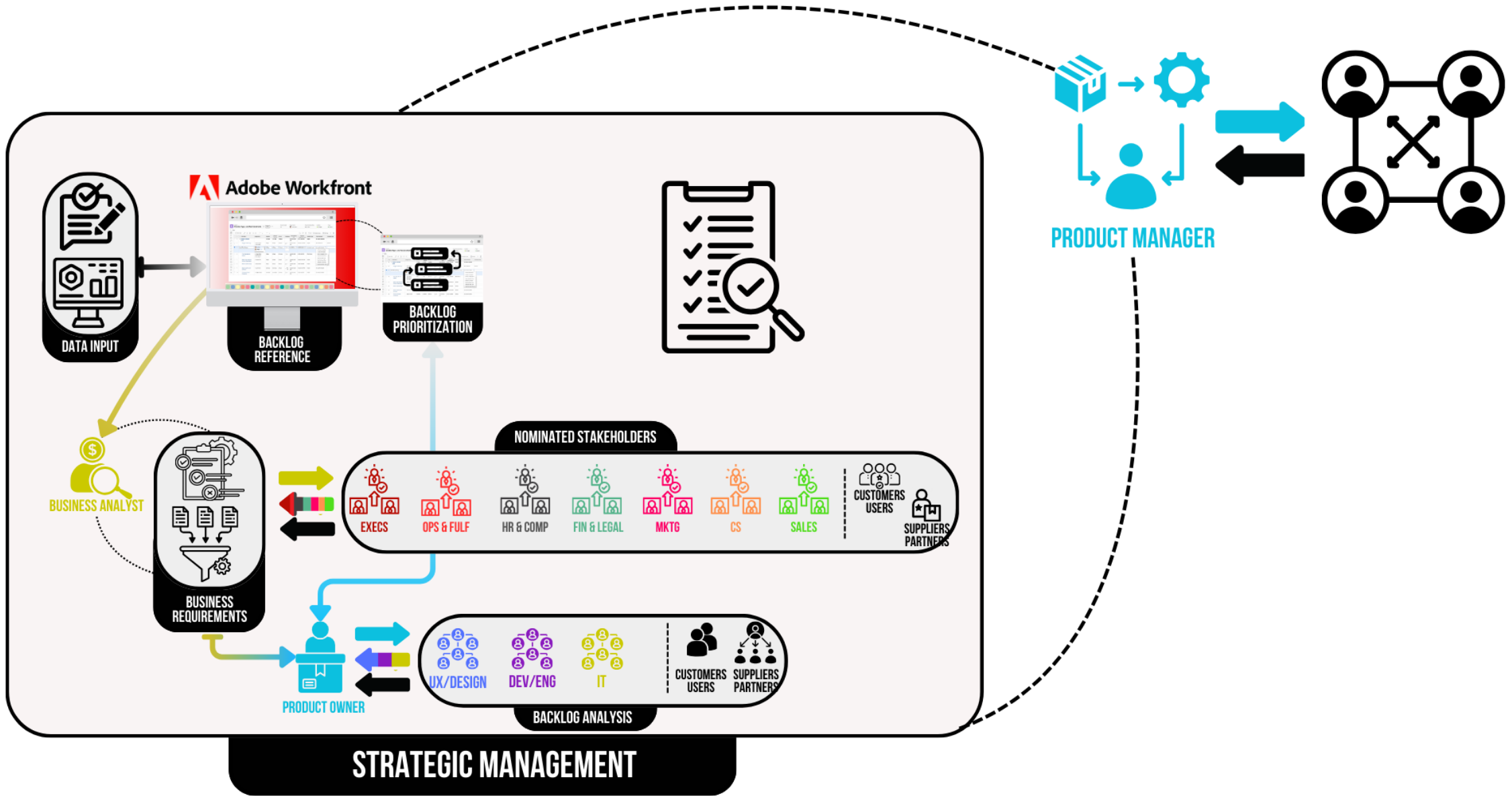
ROLE RESPONSIBILITIES



PRODUCT MANAGER

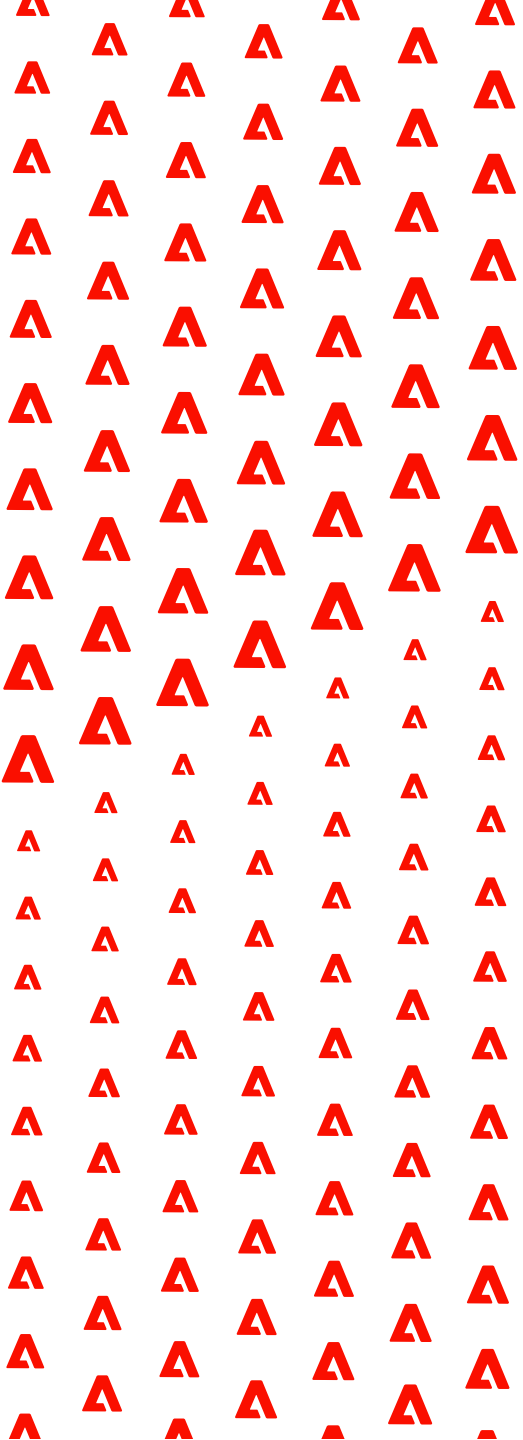
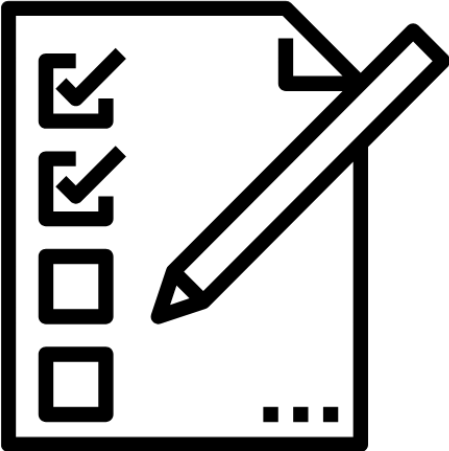
1. STRATEGIC OVERSIGHT
2. CROSS-FUNCTIONAL COORDINATION
3. MARKET AND CUSTOMER INSIGHT
4. PERFORMANCE MONITORING
5. RESOURCE ALLOCATION





REQUIREMENTS

PRACTICAL EXAMPLE



ENHANCING PRODUCT DETAIL PAGES REQUIREMENTS & PLANNING

Stakeholder Engagement:

Business Analyst organized workshops with the product team, marketing experts, and external stakeholders, including suppliers and eco-certification agencies. The intention was to understand the nuances of what our customers valued in eco-friendly products.

Requirements Gathering:

Based on these discussions, the team compiled a Business Requirements Document that captured the essence of what they needed to change. It included technical specifications for displaying certifications and an interactive module for customers to see the product's journey from raw material to final product.

User Story Development:

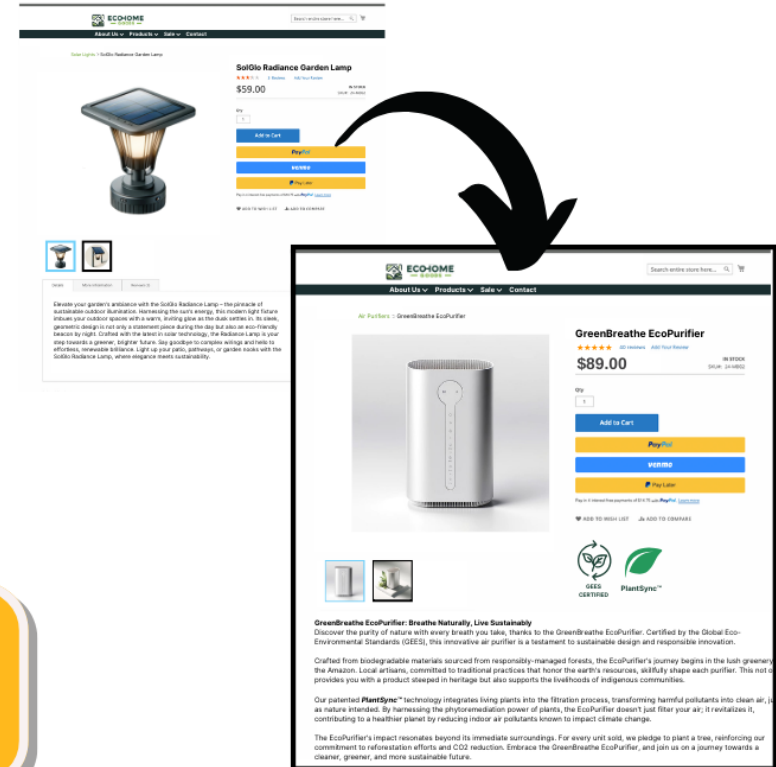
Transitioning from the BRD, the team crafted user stories with clear acceptance criteria. One such story was for customers to view a "product journey" timeline, providing transparency into the product's environmental impact from creation to delivery.

Collaboration with the Product Owner:

I worked closely with our Product Owner to refine these user stories and prioritize them for the next development sprint. We ensured each story aligned with our strategic goal of enhancing customer trust through transparency.

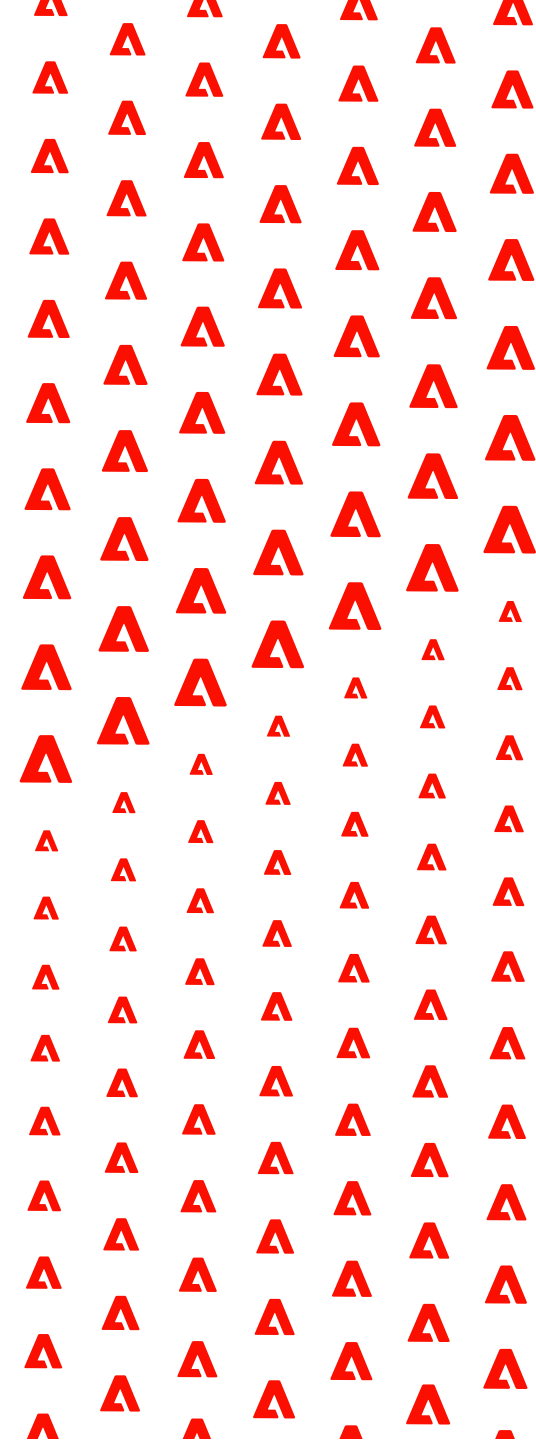
Expected Outcome:

The revamped product detail pages lead to a notable decrease in customer inquiries regarding sustainability, a reduction in page bounce rates, and a significant increase in conversions, affirming the effectiveness of a communication-centric approach in meeting both customer expectations and business objectives.

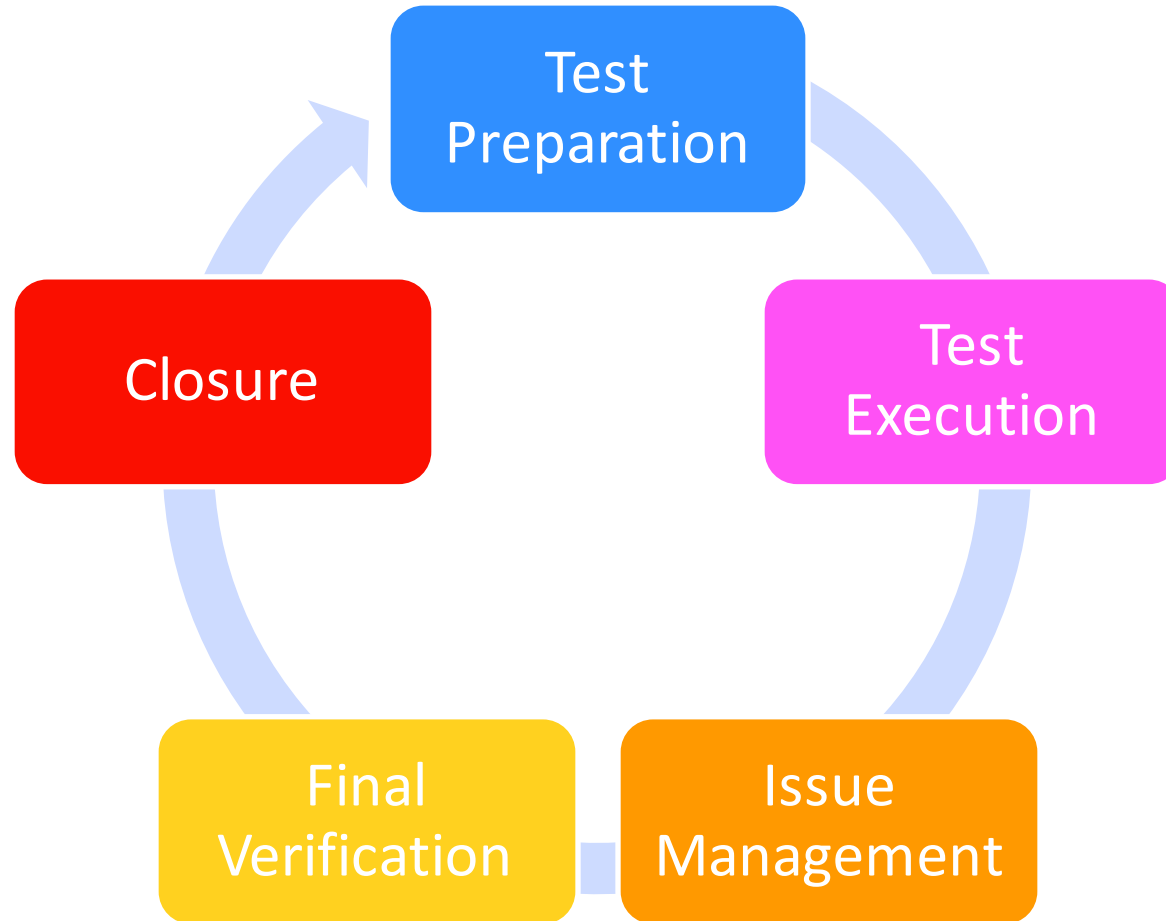


TESTING

EXCELLENCE



Testing in Agile SDLC



TESTING --- IMPLEMENTATION





1

REVIEW USER STORIES
& ACCEPTANCE CRITERIA



2

PREPARE
TEST CASES



3

SET UP TESTING
ENVIRONMENT



4

AUTOMATE
TESTING SETUP



5

EXECUTE
TEST CASES



6

LOG
DEFECTS



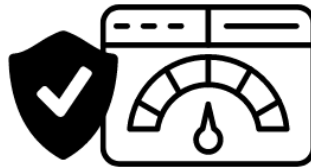
7

VERIFY
FIXES



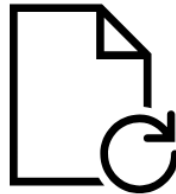
8

REGRESSION
TESTING



9

PERFORMANCE
& SECURITY TESTING



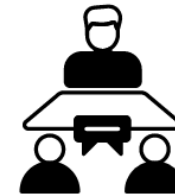
10

UPDATE TEST
DOCUMENTATION



11

STAKEHOLDER
FEEDBACK



12

RETROSPECTIVE
& IMPROVEMENT

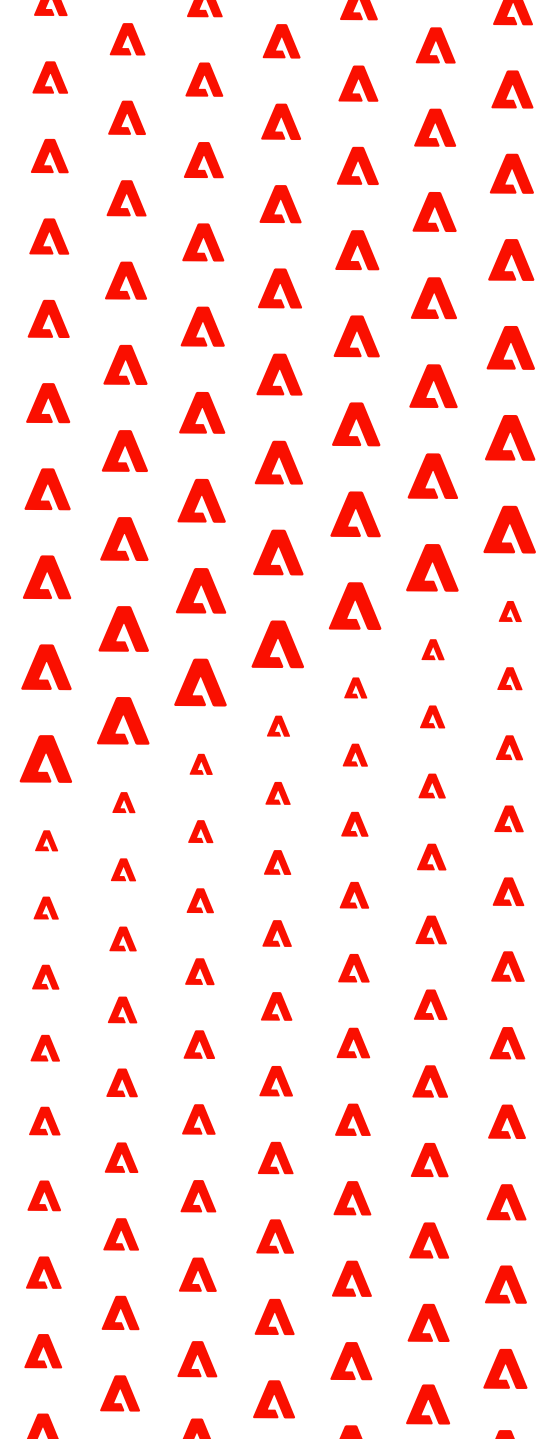


13

SIGN-OFF

TESTING

PRACTICAL EXAMPLE





REVISIT USER STORIES TO UNDERSTAND THE ENHANCEMENTS' EXPECTED USER EXPERIENCE REGARDING ECO-INFORMATION AND CERTIFICATIONS.

REVIEW USER STORIES & ACCEPTANCE CRITERIA



DRAFT TEST CASES THAT SPECIFICALLY ADDRESS THE NEW ECO-FRIENDLY ATTRIBUTES AND CUSTOMER ENGAGEMENT FEATURES ON THE PRODUCT PAGES.

PREPARE TEST CASES



MIRROR THE PRODUCTION ENVIRONMENT, ENSURING THE TEST ENVIRONMENT INCLUDES THE SAME ECO-FRIENDLY THEMES AND FEATURES.

SET UP TESTING ENVIRONMENT



UPDATE AUTOMATED TESTS TO INCLUDE CHECKS FOR NEW SUSTAINABILITY INFORMATION, USER GUIDES, AND CUSTOMER TESTIMONIALS.

AUTOMATE TESTING SETUP



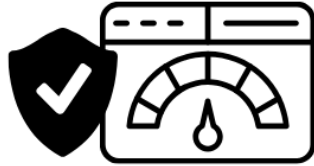
PERFORM MANUAL TESTING FOR NEW CONTENT AND AUTOMATED REGRESSION TESTS TO CONFIRM OVERALL SITE FUNCTIONALITY.

MANUAL & AUTOMATED EXECUTION



TRACK AND DOCUMENT ANY ISSUES FOUND, RETESTING TO CONFIRM RESOLUTIONS MEET THE UPDATED ECO-FRIENDLY CRITERIA.

**DEFECT LOGGING
& VERIFICATION**



TEST THAT PAGES WITH NEW ECO-CERTIFICATIONS LOAD EFFICIENTLY AND SECURE USER DATA, MAINTAINING SITE PERFORMANCE AND TRUST

**PERFORMANCE
METRICS**



PRESENT SPRINT DELIVERABLES TO STAKEHOLDERS, GATHERING FEEDBACK AND DISCUSSING IMPROVEMENTS IN THE RETROSPECTIVE.

**FEEDBACK &
RETROSPECTIVE**



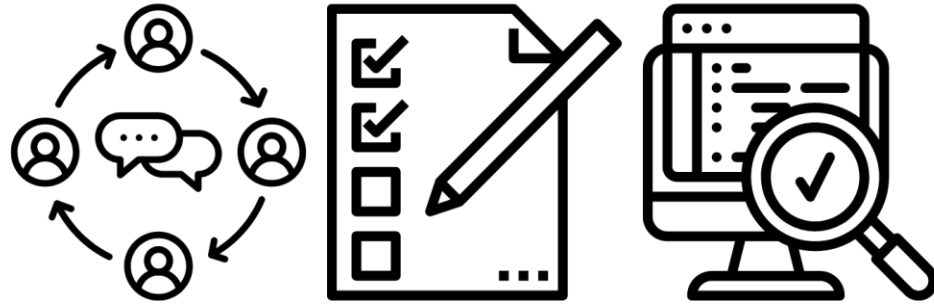
SECURE APPROVAL FROM THE TESTING TEAM, STAKEHOLDERS, AND THE SUSTAINABILITY CONSULTANT TO CONFIRM READINESS FOR PRODUCTION.

SIGN-OFF



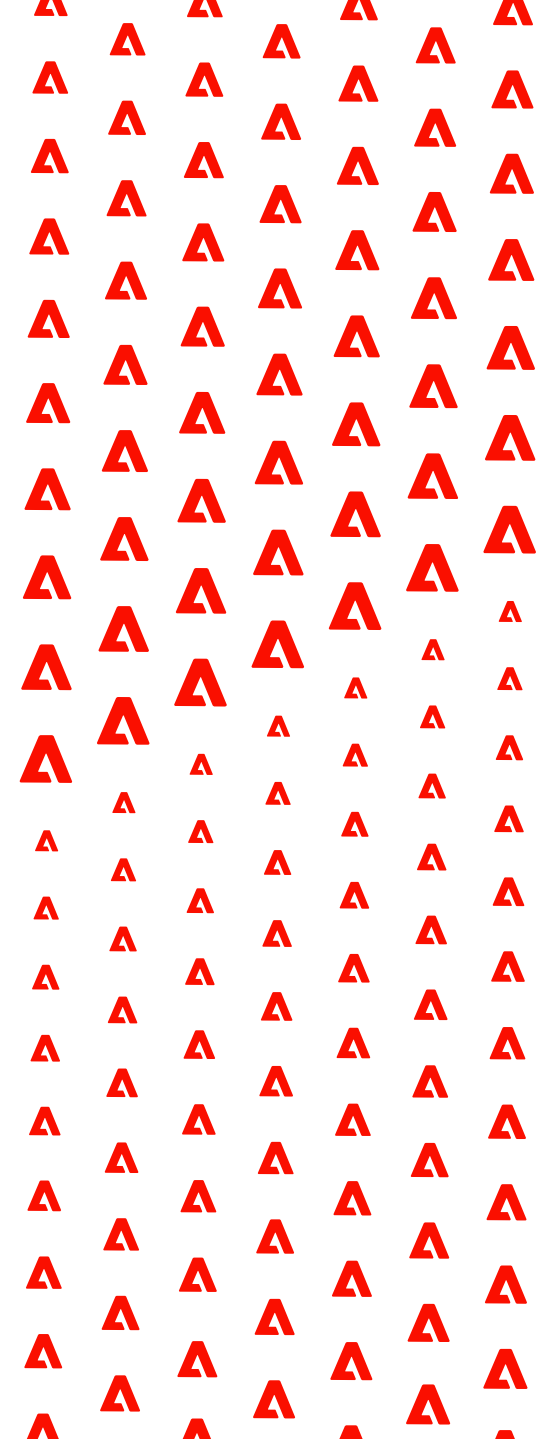
POST-IMPLEMENTATION, WE SAW A 25% INCREASE IN CUSTOMER ENGAGEMENT ON THE PRODUCT DETAIL PAGES, A 15% REDUCTION IN QUERIES RELATED TO PRODUCT SUSTAINABILITY, AND A NOTICEABLE INCREASE IN THE CONVERSION RATE FOR PRODUCTS WITH DETAILED ECO-CERTIFICATIONS AND JOURNEY TIMELINES.

**FINAL
RESULTS**



UNIFYING PROCEDURES

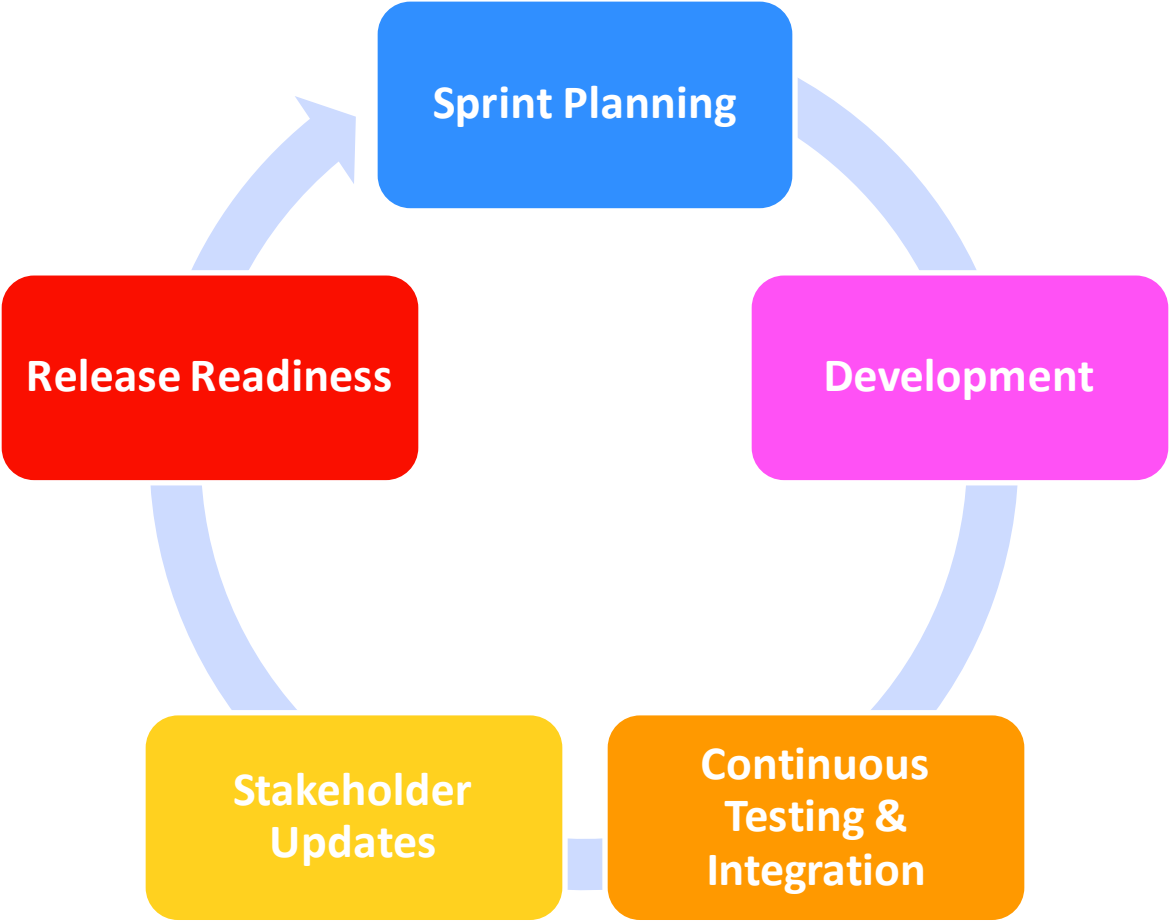
MANAGING DUAL-SCALE PROJECT STREAMS



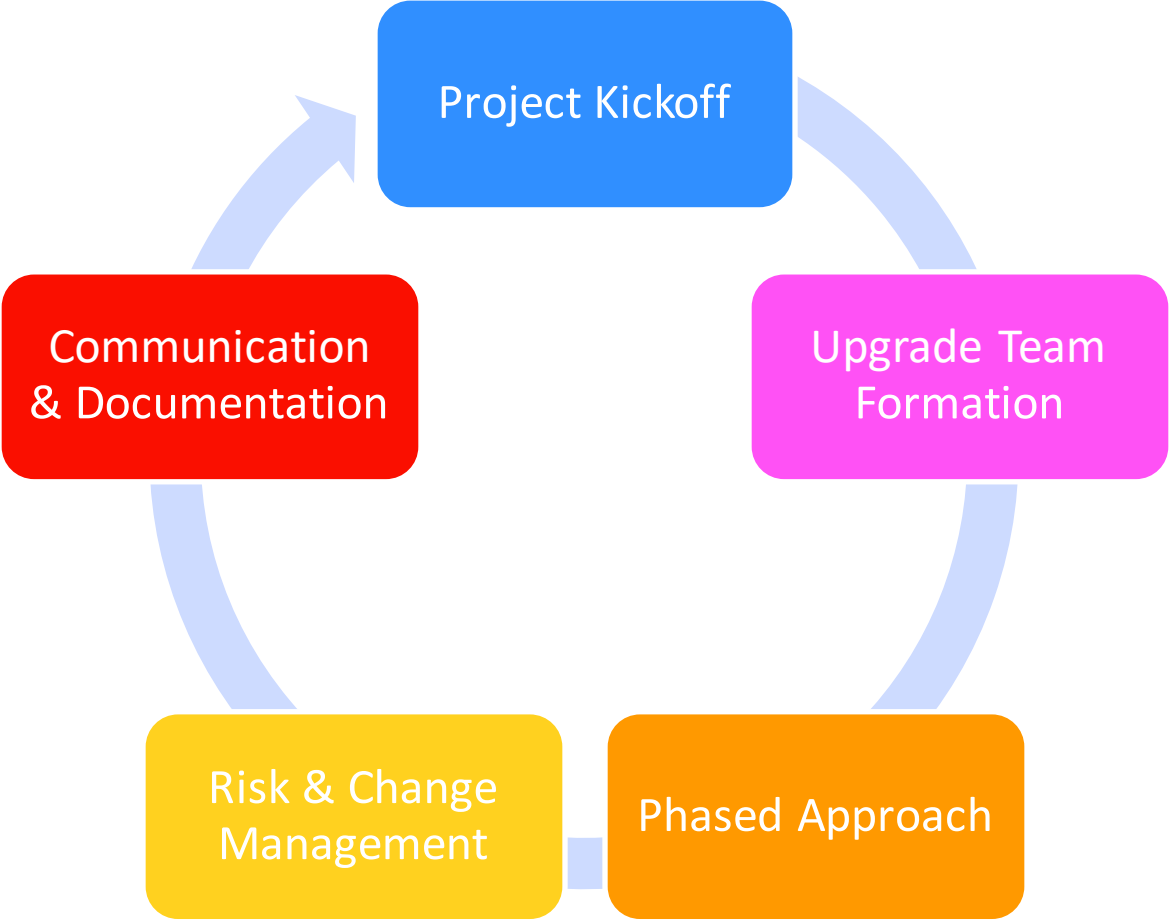
Optimizations for Dual-Scale Project Streams



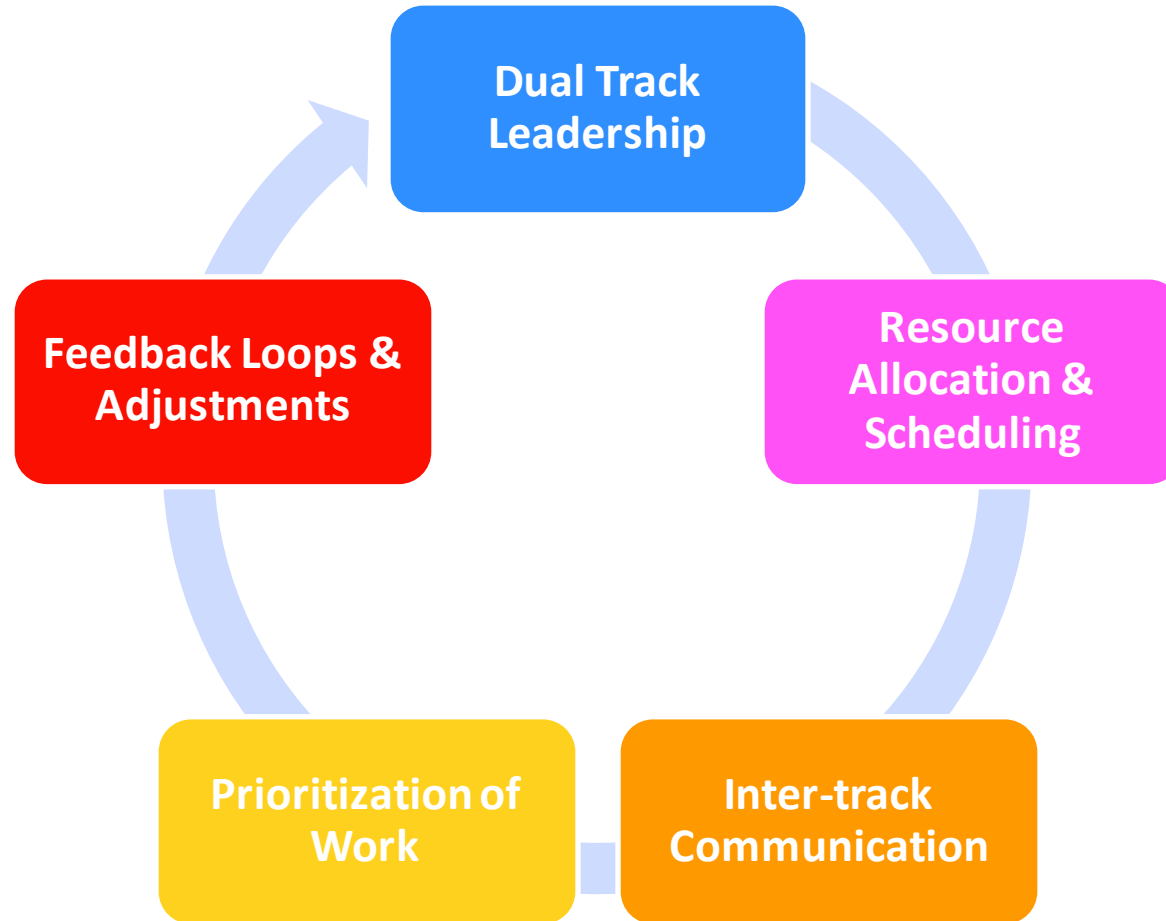
Small-Scale Implementations: Regular Sprint Release Cycles



Large-Scale Implementations: Adobe Commerce Engine Upgrade



Synchronizing Both Tracks



Importance of Traceability Matrix During Upgrades



Requirement ID	User Story	Acceptance Criteria	Frontend Test Cases	Backend Test Cases	Integration Test Cases	Defects Logged	Status
REQ-101	As a user, I want the product pages to load faster so that I can quickly view items.	Product pages shall load within 2 seconds.	F-TC-101: Verify product page load time.	B-TC-101: Test database query optimizations.	I-TC-101: Test CDN performance.	DEF-101	Passed
REQ-102	As an admin, I need to manage inventory seamlessly post-upgrade.	Inventory management shall be compatible with the new engine.	N/A	B-TC-102: Test inventory update functionality.	I-TC-102: Test integration with third-party logistics.	DEF-102	In Progress
REQ-103	As a customer, I want to use a one-click purchase option for a quicker checkout experience.	One-click purchase shall reduce checkout steps.	F-TC-103: Test one-click purchase flow.	B-TC-103: Test order processing with one-click.	I-TC-103: Test payment gateway integration.	DEF-103	Resolved



Adobe