



# Research Vision: Data-driven Agents for Content Creation

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Adobe Research

# Agenda

Section

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Vision

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Why Adobe?

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Research Area Declaration

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# Vision

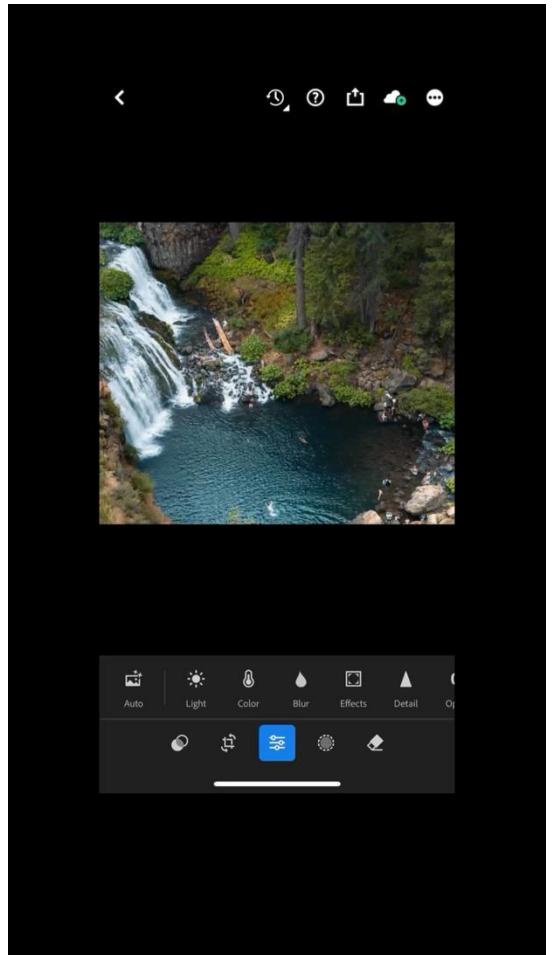


promotional informational

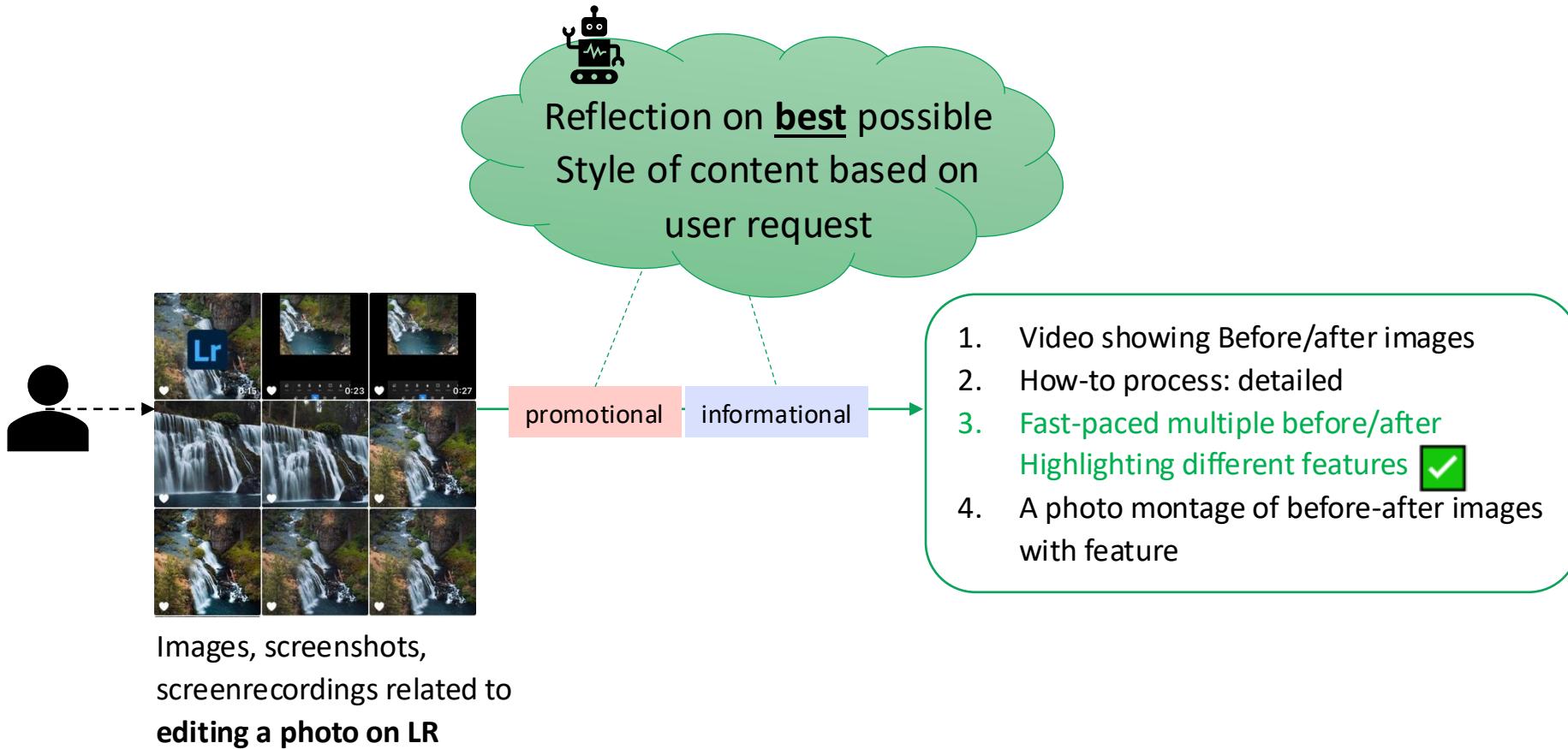
- 1. Video showing Before/after images
- 2. How-to process: detailed
- 3. Fast-paced multiple before/after  
Highlighting different features
- 4. A photo montage of before-after images  
with feature

Images, screenshots,  
screenrecordings related to  
**editing a photo on LR**

## Before



# Vision



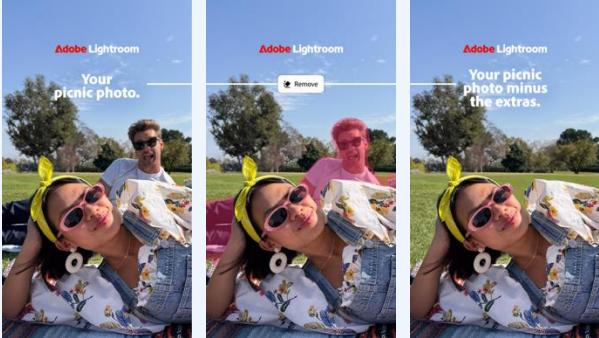
# After



# Vision: More examples

- Create variations for ***different creative types or styles*** that resonate better (*as per data*)

Carousel

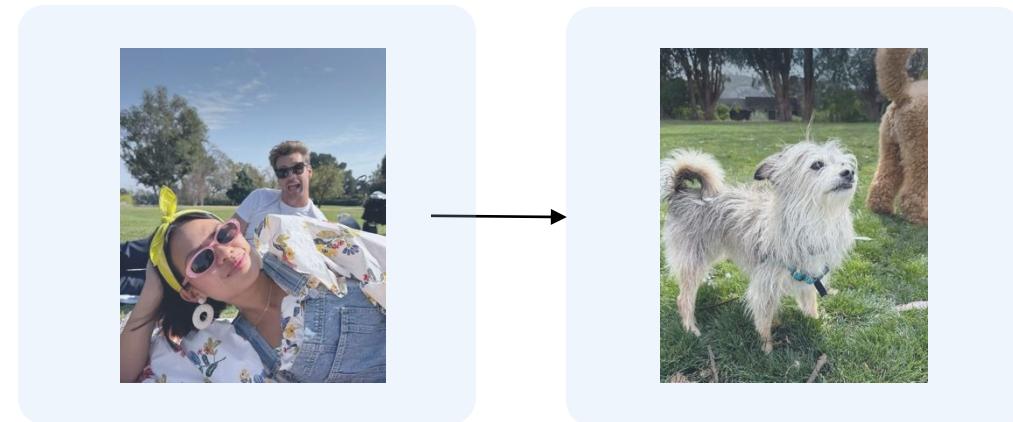


- ***Keeping style same, Create variations*** that resonate better (*as per data*)

Story



Video

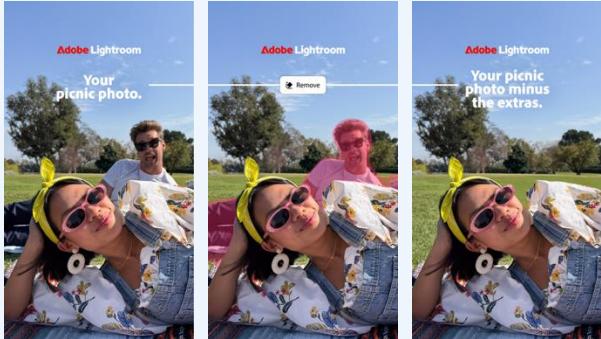


For example: If “pet content” is doing better, remake same ad featuring generative remove with pets.

# Vision: More examples

- Create variations for ***different creative types or styles*** that resonate better (*as per data*)

Carousel

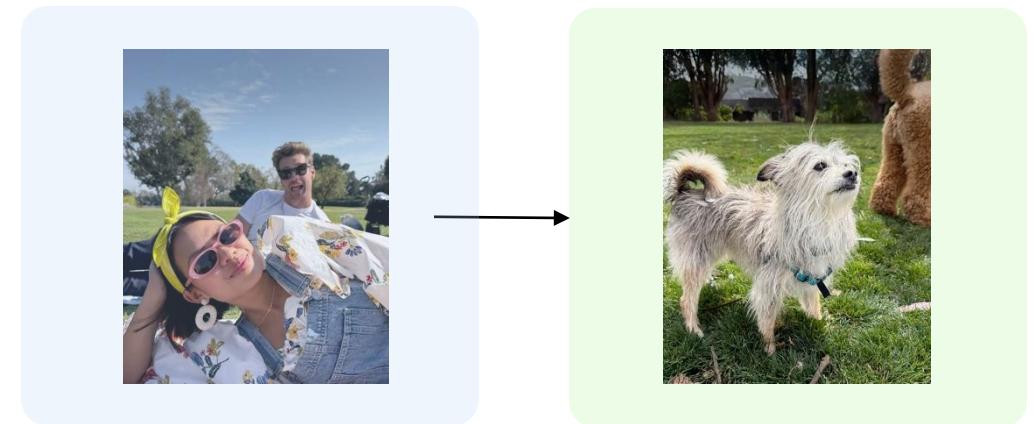


- ***Keeping style same, Create variations*** that resonate better (*as per data*)

Story



Video

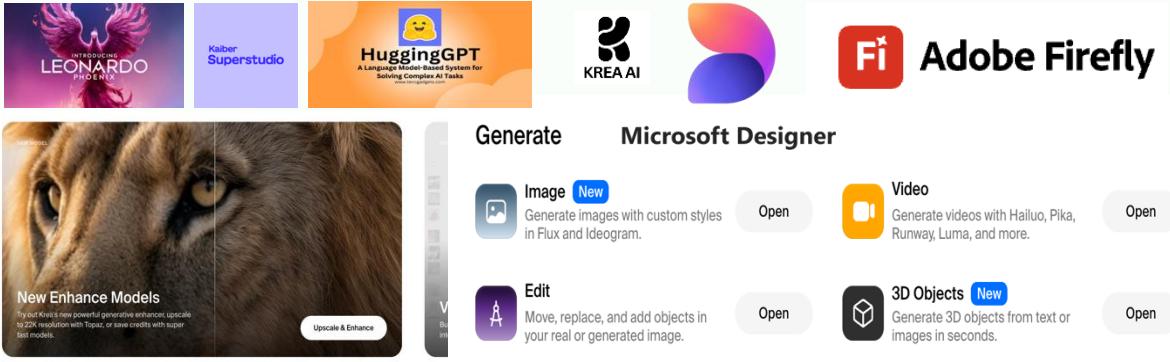


For example: If “pet content” is doing better, remake same ad featuring generative remove with pets.

# Vision

Imagine if **agents** could learn **what** makes these examples successful and ***automatically guide successful content creation.***

# Data-Driven Multimodal Agents for Creativity



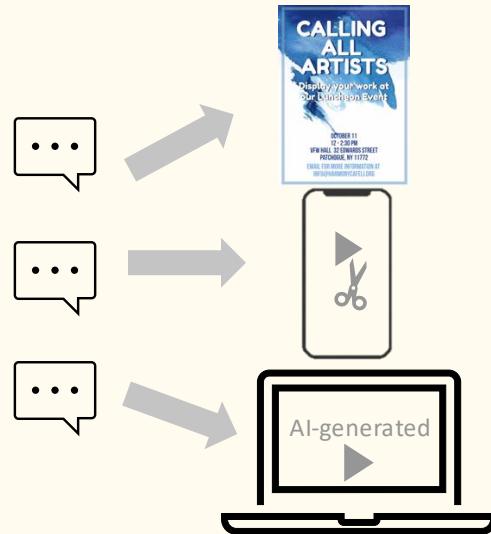
automate complex content creation

Missing:  
**Data-driven** models to create engaging content

Express Assistant

Silverscreen

Morpheus

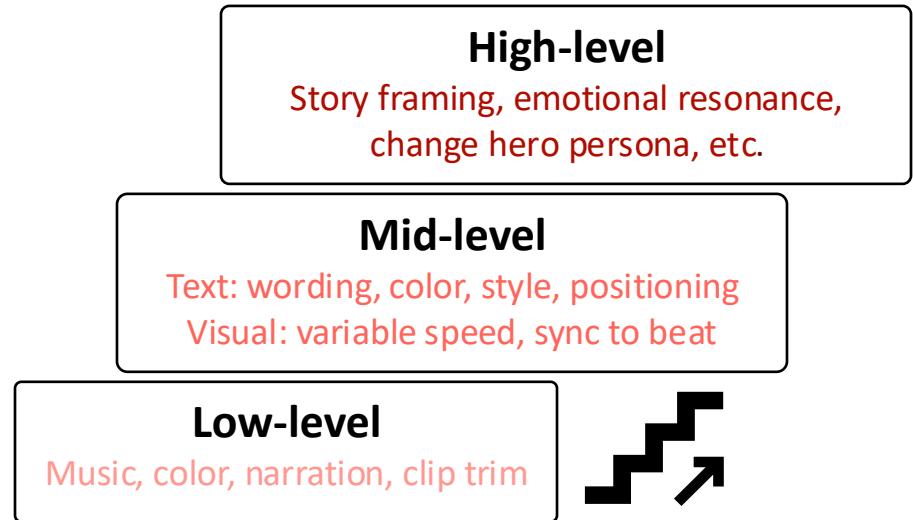


Agents + tool use enable these richer workflows

# The Space of Edits: Why This Problem Is Hard

**Current MLLMs/VLMs:** Can perform low and some mid-level edits via prompting.

**Challenge:** They can simulate reason and *intent*, but ***why a change might engage a particular audience*** or convey the right narrative needs to be grounded in ***real performance data***



## Why MLLM+data != data-driven



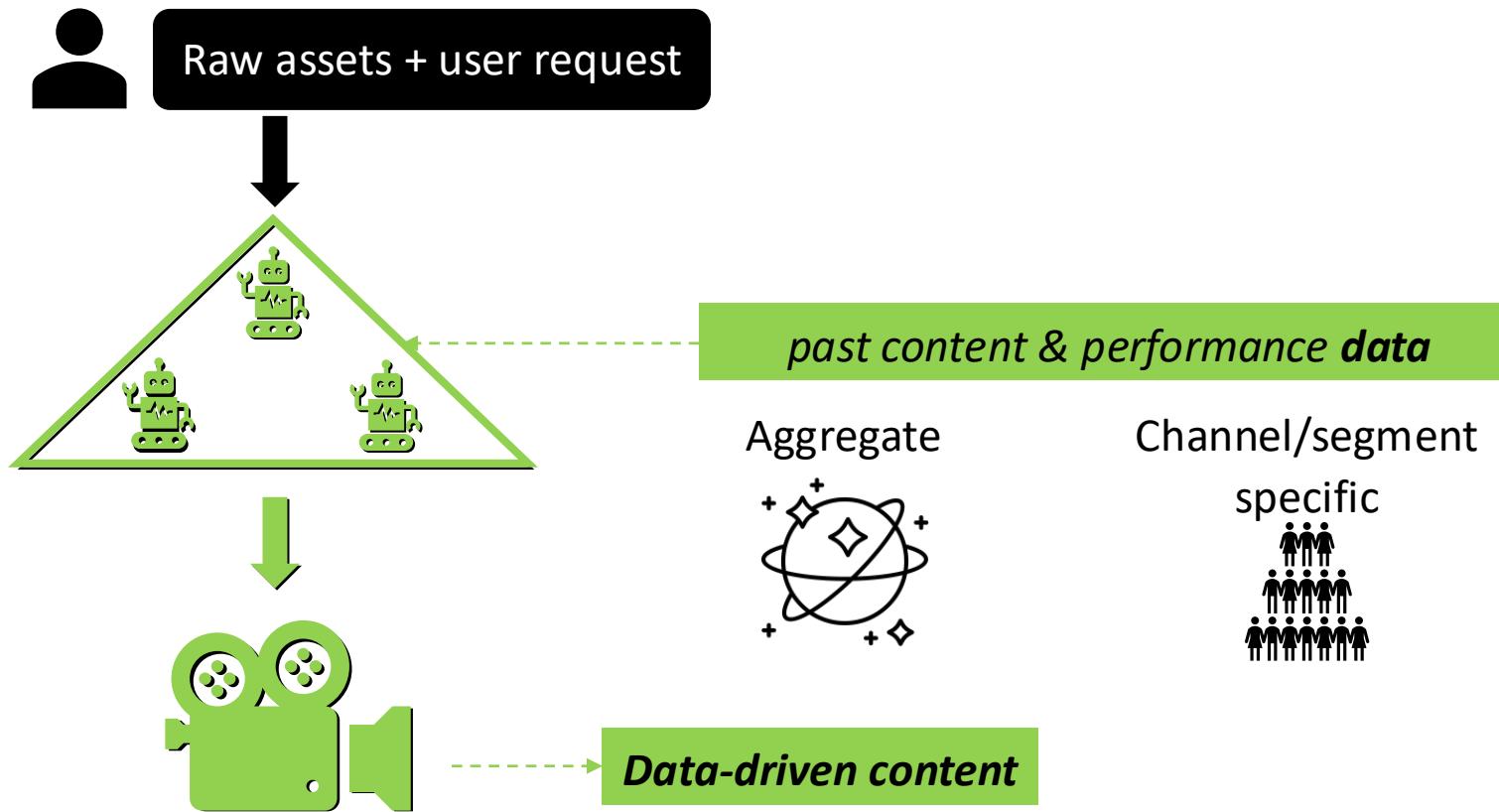
*Knowledge-based reasoning*  
vs.  
bias)



*Empirical grounding (correlation, causation, human*

# Data-Driven Multimodal Agents for Creativity

Can agents effectively understand & learn to generate ***data-driven*** content from past performance?  
that performs well across channels and audiences?



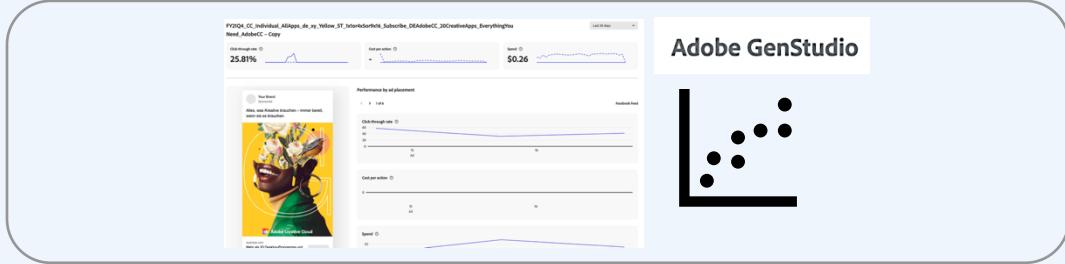
- ✓ **What** content is performing well?
- ✓ **Why** is it performing well?
- ✓ **Can we create** content that performs well?
  - ✓ Winning *Style*
  - ✓ Winning *Creative type*
  - ✓ Winning key *features*

# Why Adobe ?

Adobe's ecosystem uniquely connects content creation with its performance data — a closed loop few others can access.

## For marketers

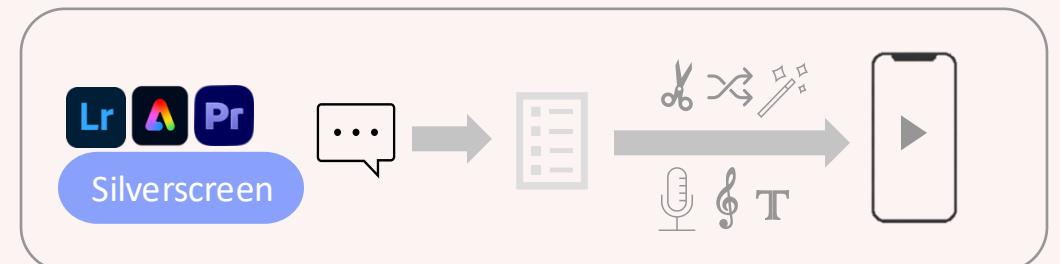
*To gain insights from engaging content*



- ✓ **What** content is performing well?
- ✓ **Why** is it performing well?
- ✓ **Can we generate marketing insights** from content that performs well to guide future campaigns?

## For content creators

*To create engaging content faster*



- ✓ **What** content is performing well?
- ✓ **Why** is it performing well?
- ✓ **Can we create content** that performs well?

# Why Adobe ? For marketers



*Insights from engaging content*

✓ **Helps** marketers, analysts and content creators **with future campaigns**

✓ **What** content is performing well?

PresetsDoodle Strongest CPC ad.

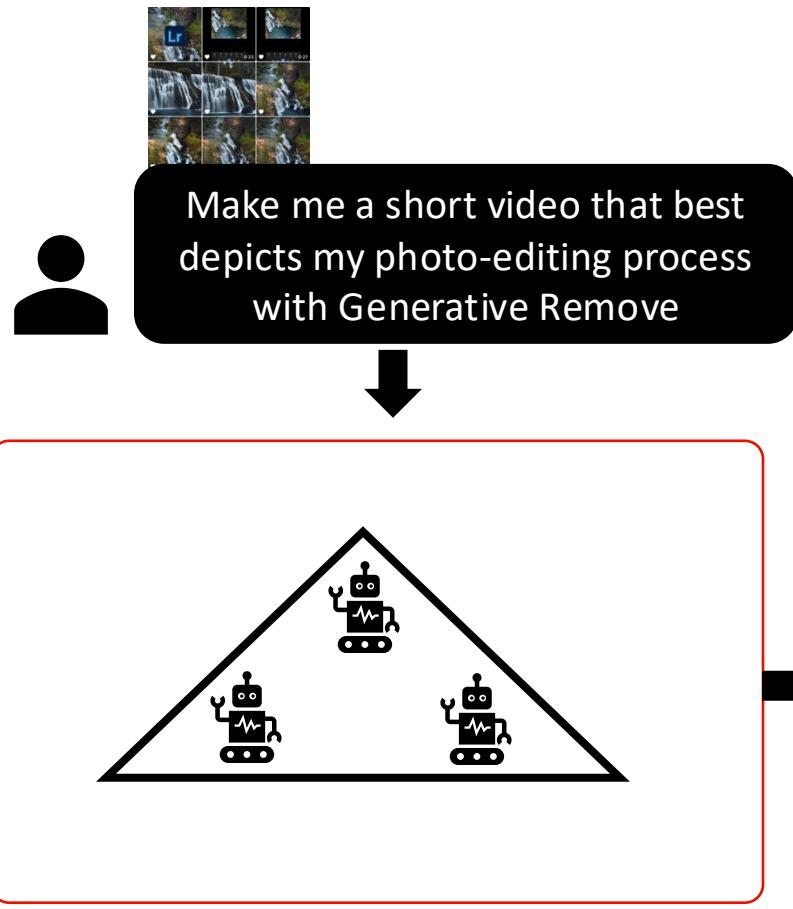
✓ **Why** is it performing well?

PresetsDoodle Achieves highest CTR (1.8%) through universal emotional appeal (pet photography) + optimized 5-second pacing + clear before/after value demonstration, creating immediate connection.

✓ **Can we guide future campaigns?**



# Why Adobe ? For creators

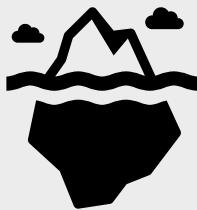


**MLLM AGENT**

*Create engaging content faster*

- ✓ **Helps** content creators **create engaging content faster.**
- ✓ **What** content is performing well?  
Fast-paced multiple before/after shots style short-video highlighting the feature in the past has worked well for similar video styles
- ✓ **Why** is it performing well?  
First 10s that quickly demonstrate the feature, with upbeat music, fast-fade cuts drive engagement in content that perform well
- ✓ **Can we create** content that performs well?

# Research Area Declaration



## PROBLEM

No structured way to use performance data for understanding, evaluating and automating content creation

How to enable data-driven decision making in agents towards content-creation?



## MOTIVATION

Enabling Adobe customers to produce high-quality content **faster** and **more** efficiently.



## GOAL

✓ **What** content is performing well and **Why**?

Interpretable & Actionable data-driven insights and recommendations

✓ **Can we create content** that performs well?

to enable multi-agentic systems to directly generate ***data-driven plans*** for *creating, evaluating and iteratively refining engaging content*

# Outline

Main Research  
Challenges &

Research  
Objectives

Existing  
Explorations

Future steps

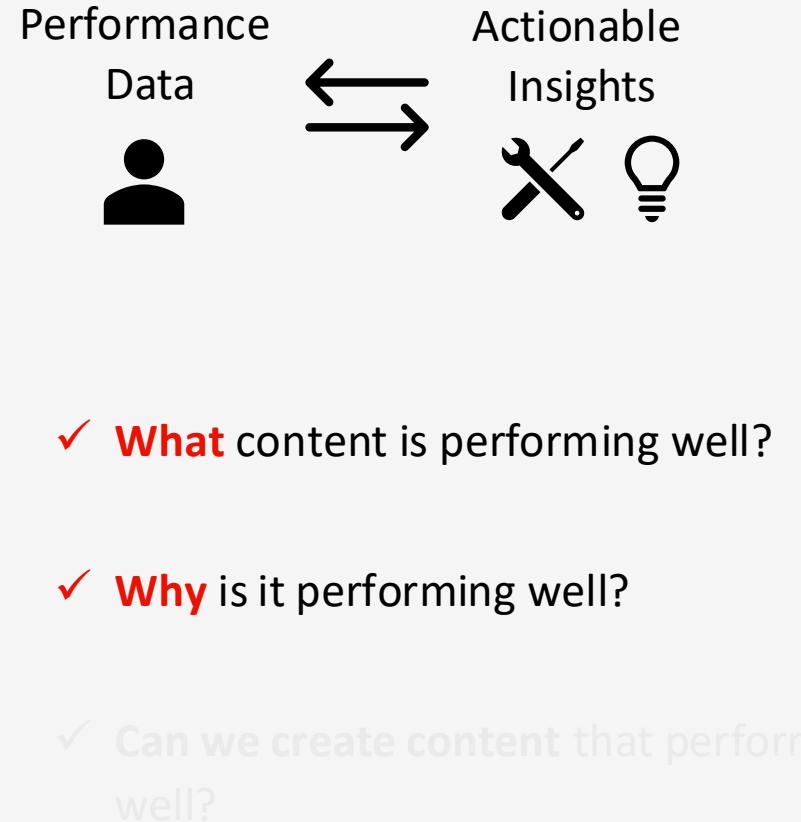
# Main Research Challenges

- ***What content is performing well and Why?***

Translating performance data (e.g., user engagement) into actionable insights and recommendations

- ***Can we create content that performs well?***

Lack of coordinated data-driven reasoning and planning towards task decomposition to directly create/generate high-performing content



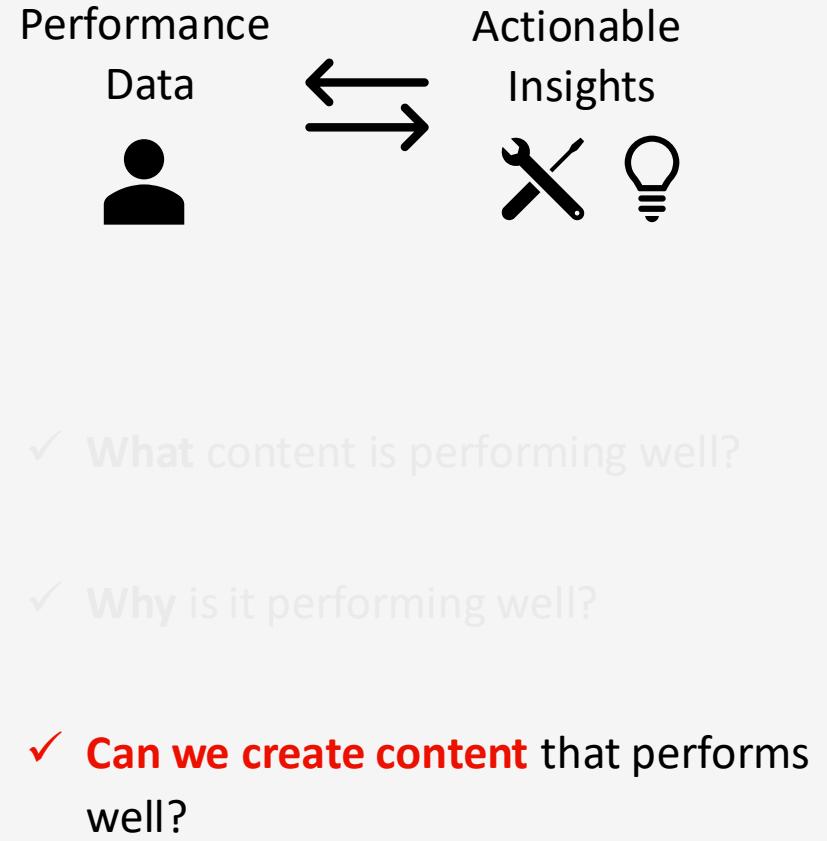
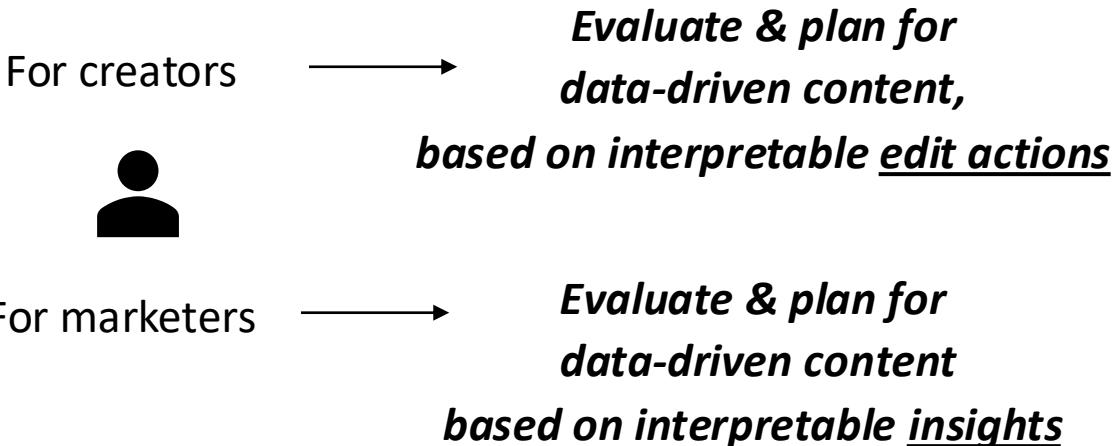
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# Research Objectives

**Challenge 1:** Translating performance data (e.g., user engagement) into actionable insights and recommendations

**Data-driven behavior understanding :**  
predicting engagement and insights from engagement

- a. Data-driven behavior prediction (For ex: engagement prediction)
- b. Explainable data-driven insights: Interpretable, actionable feature attribution

**Challenge 2:** Data-driven reasoning and planning towards task decomposition to directly create/generate high-performing content

**Data-driven Content modification\* :**  
Modeling and controlling user(s) behavior to guide data-driven content generation and modification.

*User Request*

Multi-agentic framework 

*Content*

Would the user <<*like*>> this content?

Which actions performed on the content guarantee <<*user likability*>>

# Research Objectives

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**Data-driven Content modification\* :**  
Modeling and controlling user(s) behavior to directly guide data-driven content generation and modification.

\* Partly explored

*User Request*



*Content*

Directly modify the content that satisfy <<*user behavior*>>

# Outline

Main Research  
Challenges &

Research  
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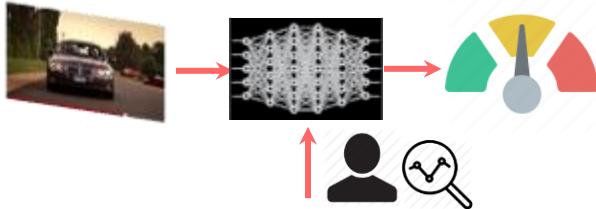
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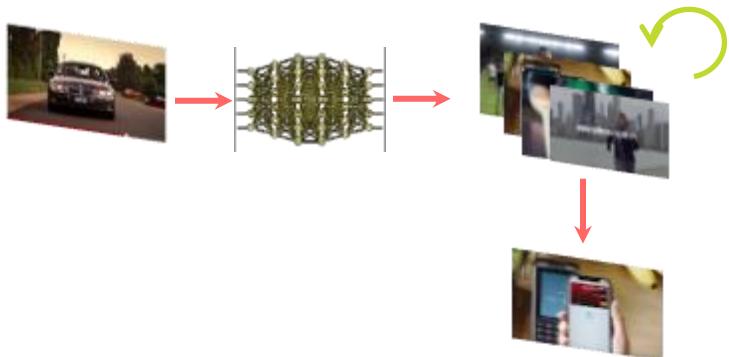
# Existing Explorations

## In-house models

Watchability: Performance Prediction



Closing the Loop: Auto Optimizing Content & Variants



## Differentiating factor

- Interpretable understanding of content performance
- Interpretability should be translatable to controlled actions users can take on Adobe tools to improve content

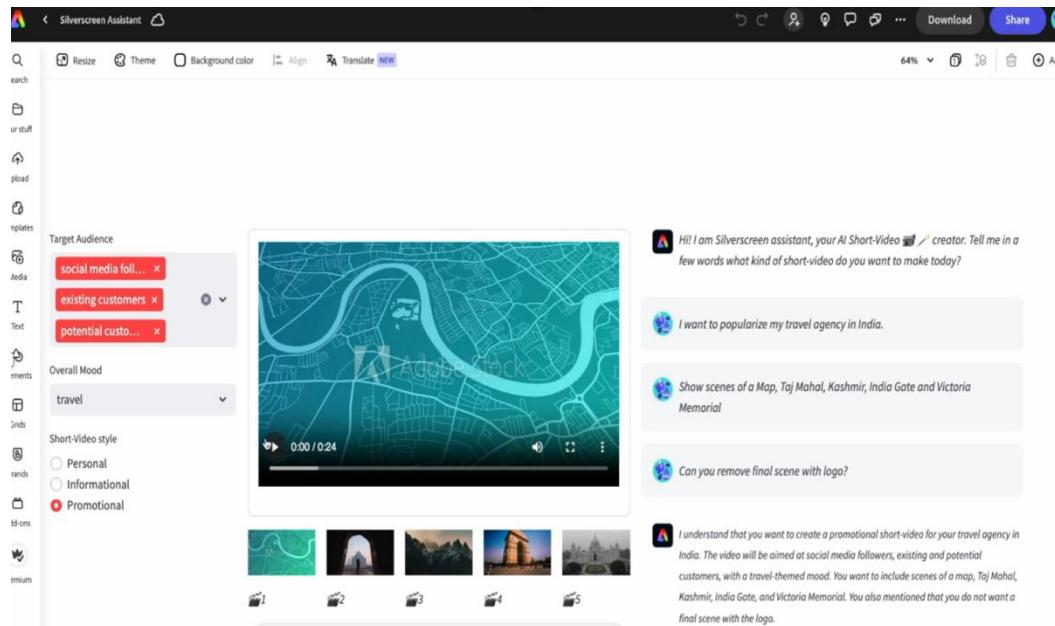
Newly available and collected performance data and SOTA MLLMs can map performance to interpretable and actionable suggestions on content

# Existing Explorations [yet to hide]

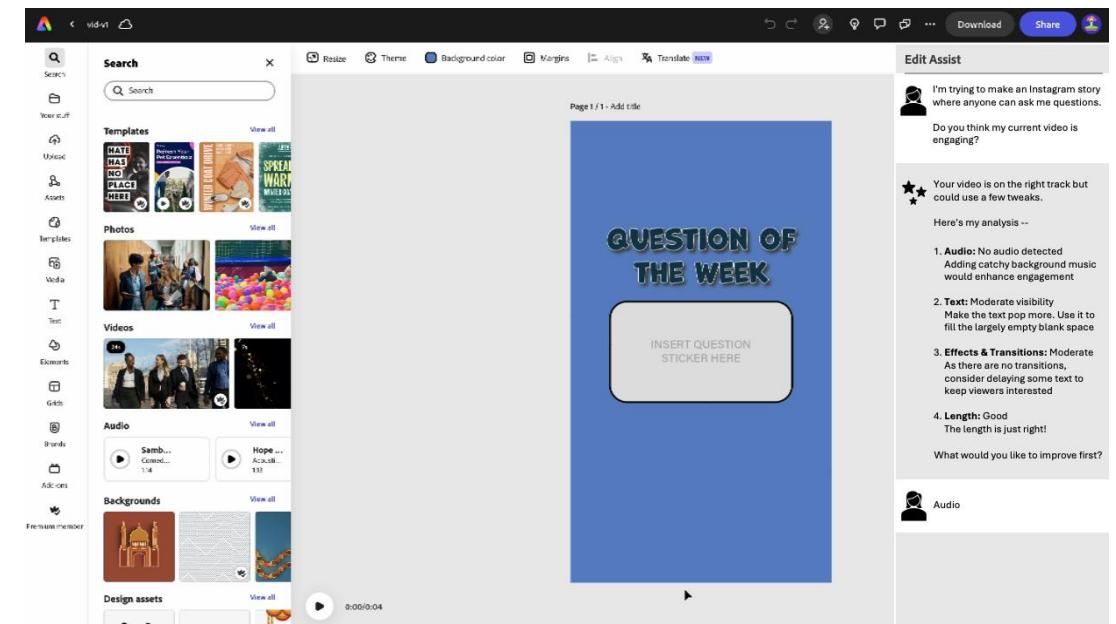
	Creator	Marketer
Challenge 1: Translating performance data (e.g., user engagement) into actionable insights and recommendations	Yes  Project Silverscreen, EditAssist	Ongoing
Challenge 2: Data-driven reasoning and planning towards task decomposition to directly create/generate high-performing content	Yes  Project Loopedit	Future Work

# 1. Data-driven Multi-agent frameworks for short-video creation

## *Silverscreen*: Agentic short-video creation

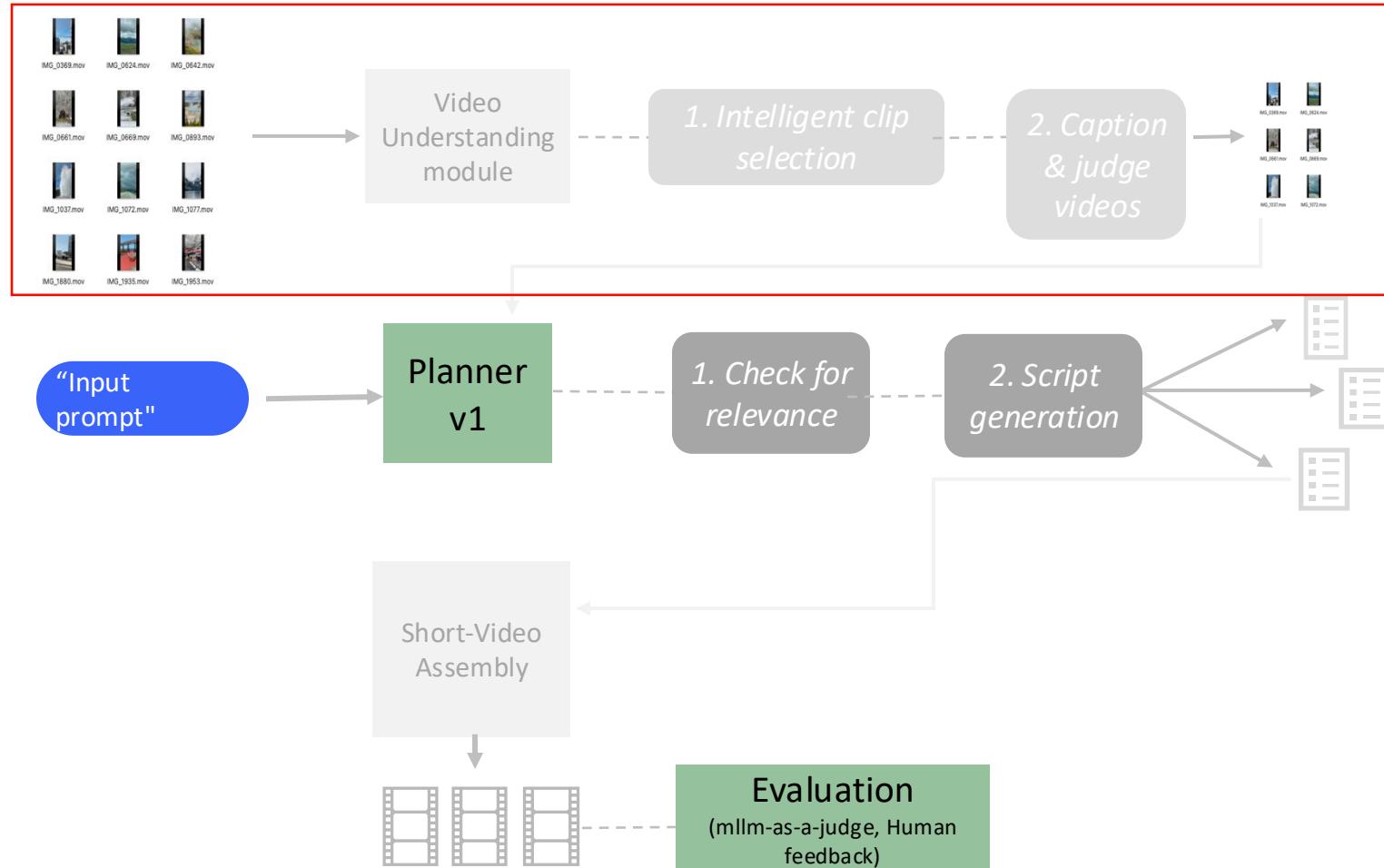


## *EditAssist*: Data driven short-video engagement understanding & improvement

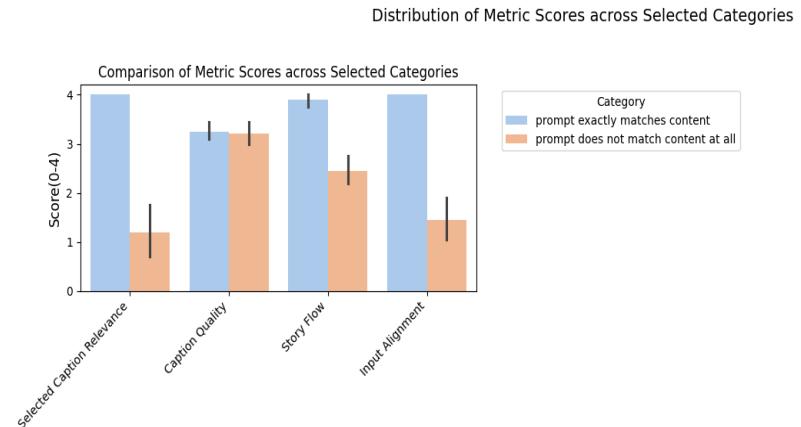


For this presentation, **content** is generally **video** & **content editing** is generally **video editing**.

# A) Agentic short-video creation



## Quantitative Assessment



## Qualitative Assessment



*"wow the outputs are so cool! Wren and I just looked through the ones it gave me. This is awesome! I can't wait to make a finished video off what it gave me"*

## B) Data driven short-video engagement prediction & improvement

How to optimize content?



Create



?

As opposed to Platform-dependent metrics (*watch-time, likes, shares, etc.*), can content engagement be predicted based on content characteristics?

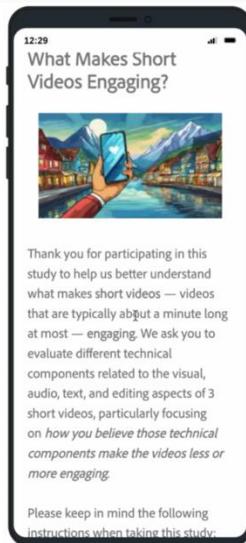
- ✓ Automated content refinement based on content's inherent characteristics
- ✓ Help creators with “actionable insights” to modify and improve content before publishing content

VidES  
Dataset  
+  
EditAssist

# VIDes Dataset (Rate video engagement and reason why)



- Edit signals
- Engagement based on edit signals used



visual-3

What did you think of the visual variety

- Appropriate, considering the content
- Not enough visual variety/not enough scenes
- Too much visual variety/too many scenes
- Did not care

□ audio-7

Did the music used in the video help its engagement?

- Yes - music present and it is satisfactory
- Yes - music absent and any music would have been distracting
- No - music present and it is distracting
- No - music absent and some music would have been useful
- Did not care



650+ short-videos (< 1 min)



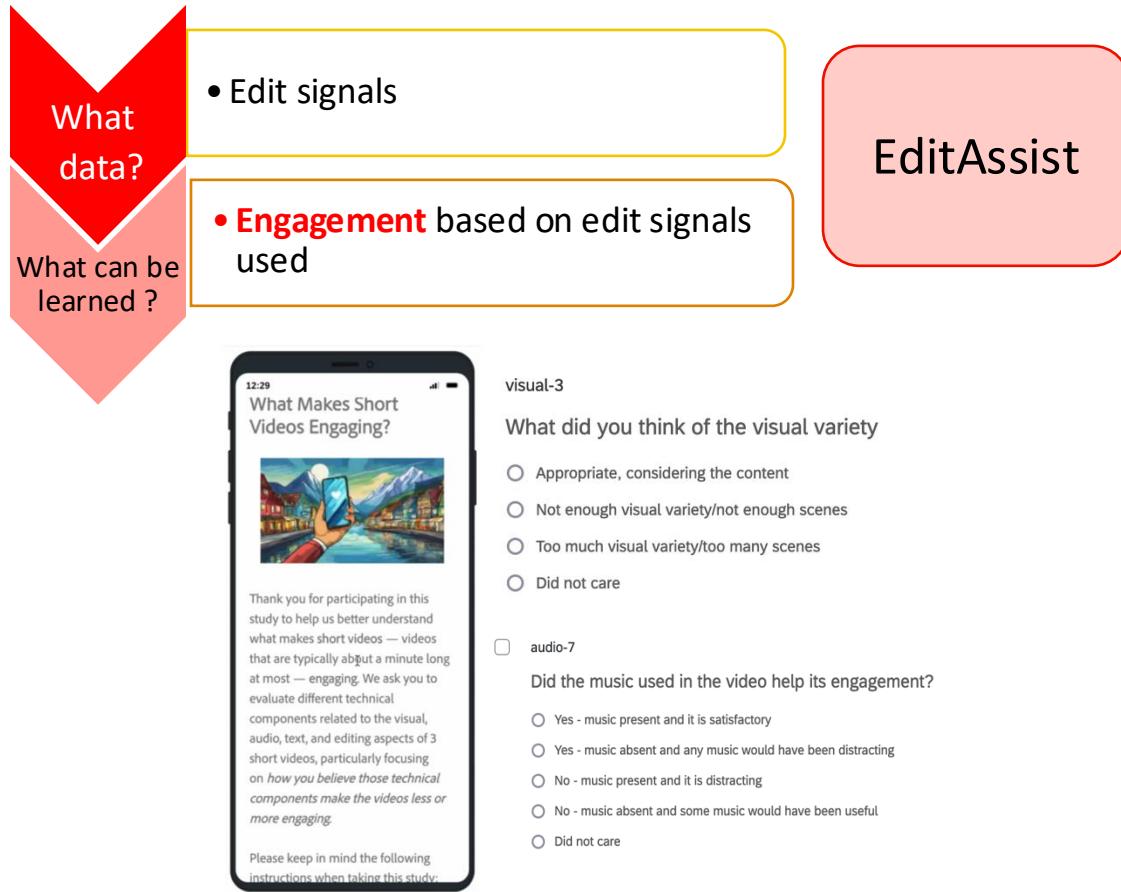
~2900 users with  
video editing skills



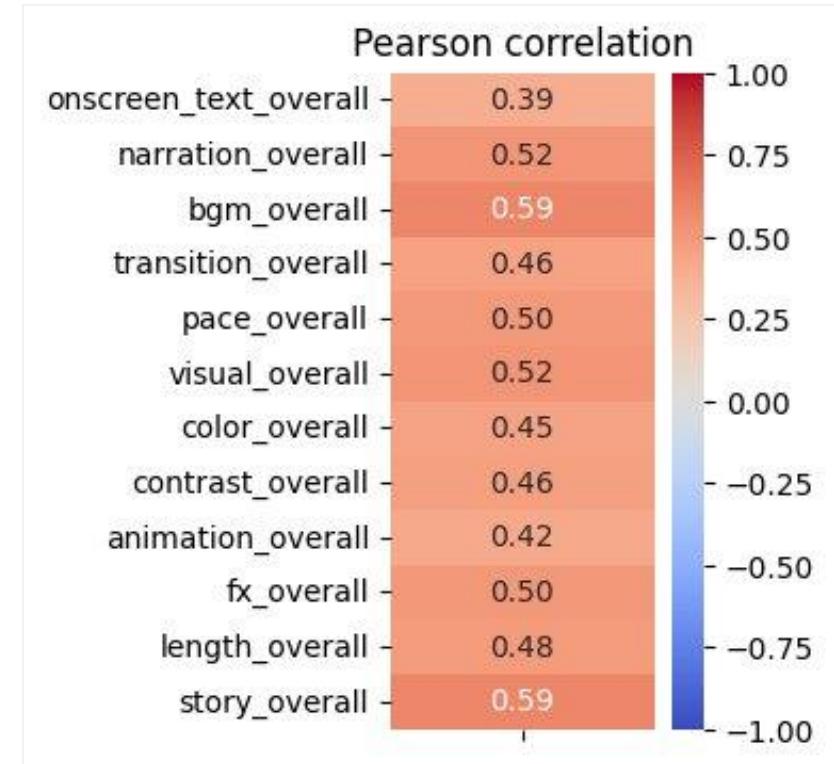
Overall engagement  
Score [1-5]

- Also asked about *individual edit signals*
  - 48 questions on each video about Text, Audio, Visuals, Storytelling, Scene transitions, etc.
  - Only asked about edit signals Actionable in Express
  - Scale further with 1000+ videos across different styles and categories of short-videos

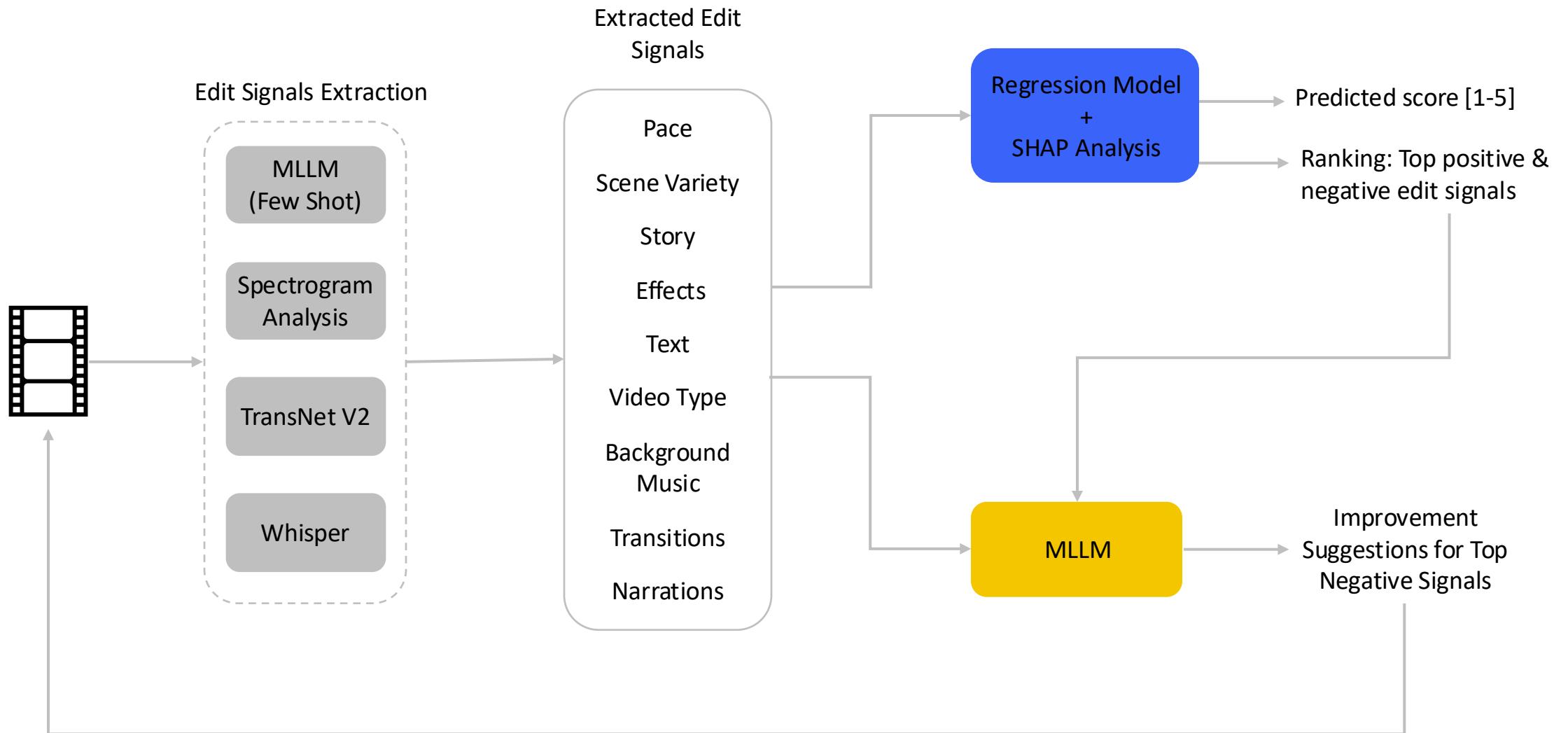
# VIDes Dataset (Rate video engagement and reason why)



- Correlation analysis between **edit signals & engagement**



# EditAssist framework



# Quantitative Results

## Performance on Engagement Prediction & Improvement Feedback

Method	ES Decomp.	Engagement Prediction			Improvement Feedback	
		MAE	RMSE	Classification Accuracy	Accuracy	F1
Random model	No	1.45	1.77	0.21	0.27	0.43
Q-Align [20]	No	0.79	0.97	0.39	N/A	N/A
GPT-4o (Zero-shot)	No	1.19	1.39	0.13	0.36	0.54
GPT-4o (Few-shot)	No	1.02	1.23	0.28	0.41	0.57
GPT-4o (Few-shot)	Yes	0.75	0.88	0.38	0.45	0.61
SmartEdit	Yes	<b>0.64</b>	<b>0.84</b>	<b>0.49</b>	<b>0.51</b>	<b>0.67</b>

Testing different backbones

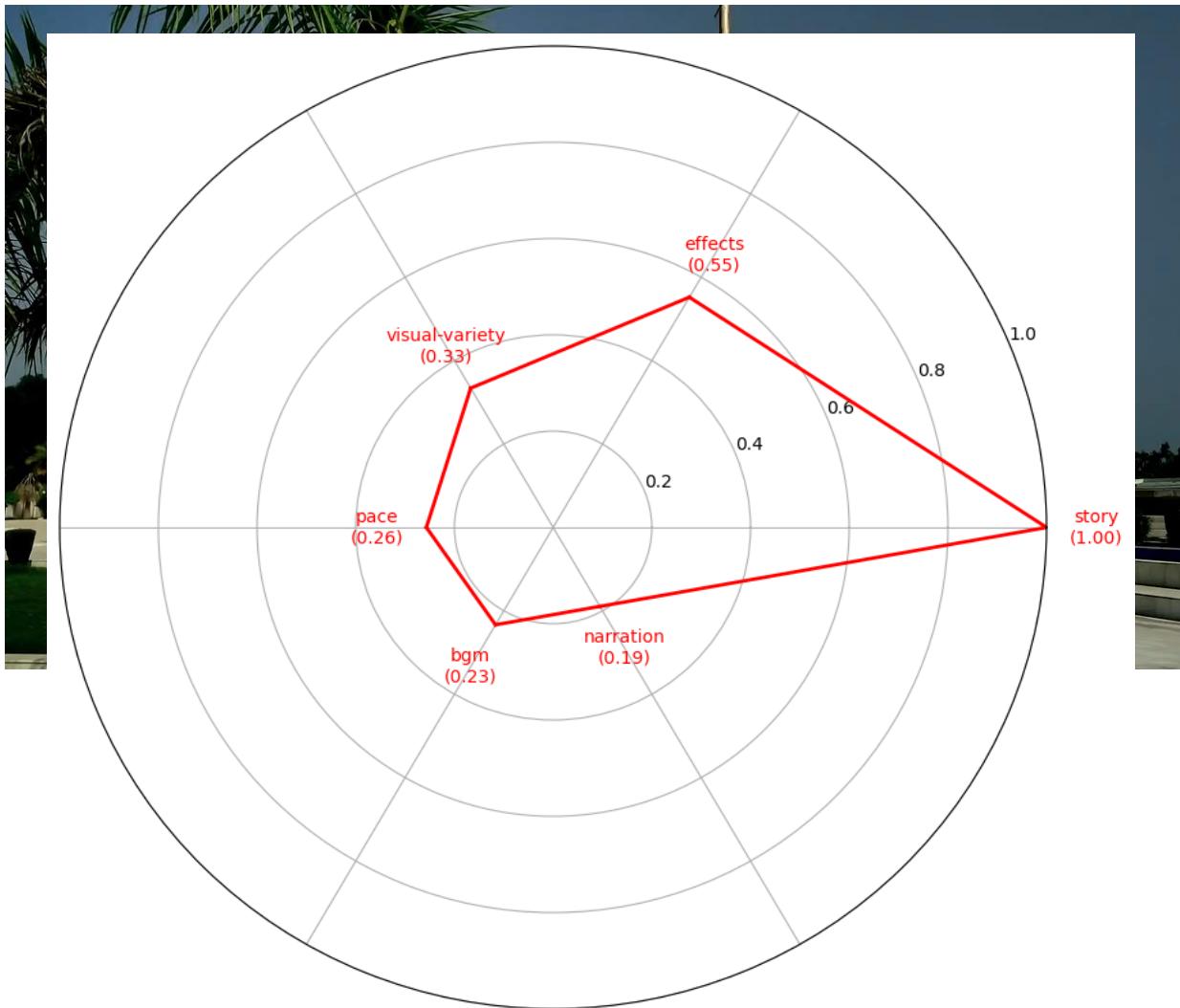
Regression Model	MAE	RMSE	clfAcc
XGBoost	1.15	1.33	0.28
Multi-Layer Perceptron (MLP)	0.91	1.18	0.37
Random Forest Regressor	<b>0.64</b>	<b>0.84</b>	<b>0.49</b>

Ablation Study

Effect of example types on feedback improvement

Good Examples	Bad Examples	Reasoning	Accuracy	F1
0	4	No	0.44	0.59
0	4	Yes	0.47	0.63
2	2	No	0.45	0.62
2	2	Yes	0.51	0.67

# Results: Qualitative (Poorly edited video)



## Top signals affecting engagement (+/-)

	Human	Our model
Story flow	✓	✓
Effects	✓	✓
Variety of scenes	✓	✓
Pace	✓	✓
Music	✓	✓
Narration	✓	✓

## Ground Truth

0.4

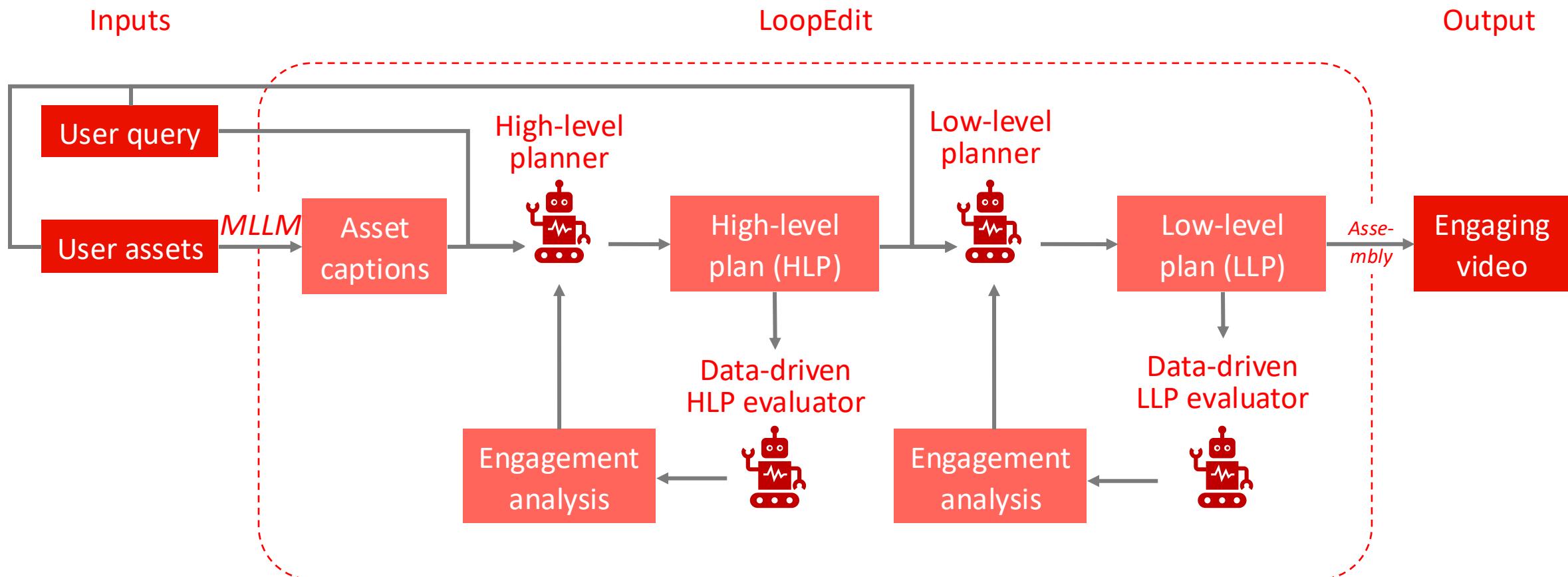
## Predicted

1.1

### Engagement score scale:

- 0 = not at all engaging
- 1 = slightly engaging, needs many improvements
- 2 = somewhat engaging, needs a few improvements
- 3 = engaging, but can be improved
- 4 = very engaging, no improvements needed

## C) Bringing it all together: Loopedit (Data-driven planner)



Demo: [demo\\_max25.mp4](#)

# What does a plan look like?

## Hierarchical

- **HLP**
  - Overview
  - Scenes
- **LLP**
  - Clips

## Overview

**Pace:** Normal  
**Mood:** Calm  
**Category:** How-to

**Narration:** None  
**Bgm:** Soft jazz  
**Duration:** 15 sec

### Scene 1

### Scene 2

### Scene 3

### Scene 4

**Summary:** Demonstrate pouring grounds & preparing base  
**Purpose:** Build anticipation  
**Approx duration:** 3 sec  
**Keywords:** dripper, hot water

Clip 1

Clip 2

Clip 3

Clip 4

Clip 5

Clip 6

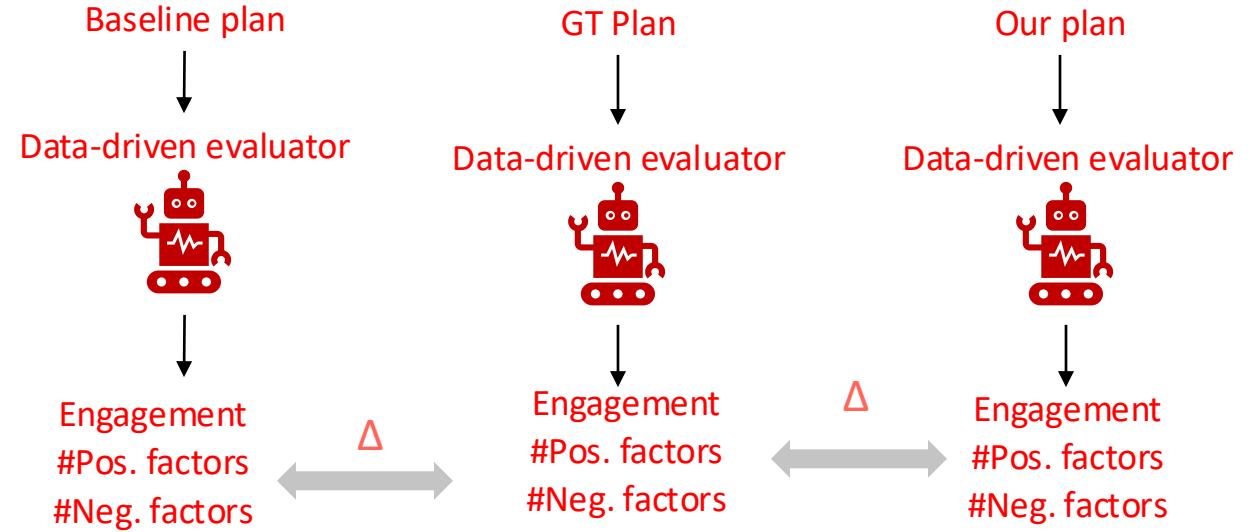
Clip 7

Clip 8

**Source:** CB\_916.mp4  
**Duration:** 2.3 sec  
**Text overlay:** Step 1.  
Grind your beans  
**Effect:** Zoom in



# Quantitative results: Planning & Evaluator agents



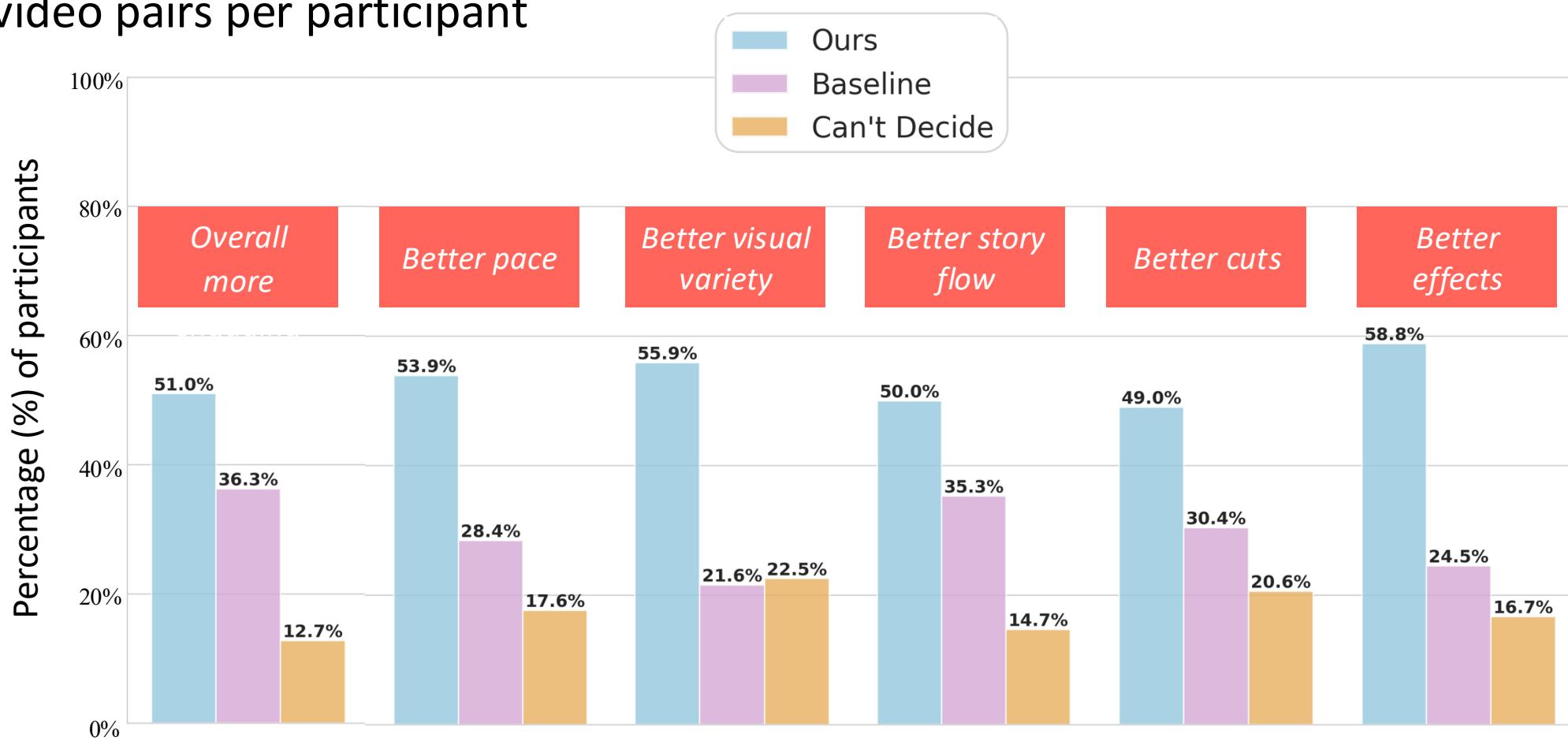
Evaluator model	Pearson Correlation ↑	Mean Absolute Error (MAE) ↓
HLP evaluator	0.776	0.65
LLP evaluator	0.759	0.90

Plan	Method	Avg. delta ( $\Delta$ ) in engagement score ↑	Avg. delta ( $\Delta$ ) in #positive factors ↑	Avg. delta ( $\Delta$ ) in #negative factors ↓
HLP	Baseline	0.357	1.450	-0.800
	Ours	<b>1.143</b>	<b>1.895</b>	<b>-1.222</b>
LLP	Baseline	0.375	0.563	-0.500
	Ours	<b>0.750</b>	<b>0.950</b>	<b>-0.882</b>

# Quantitative results: User study

Take the survey here~  
[\[Survey link\]](#)

- 17 participants
- 6 video pairs per participant



# Data-Driven Insights for Marketers

**~1800 campaigns ~40,000 videos**

Genstudio lets customers associate their content with performance via dashboards and insights, but can we make the insights more

- Contextual?
- Actionable?

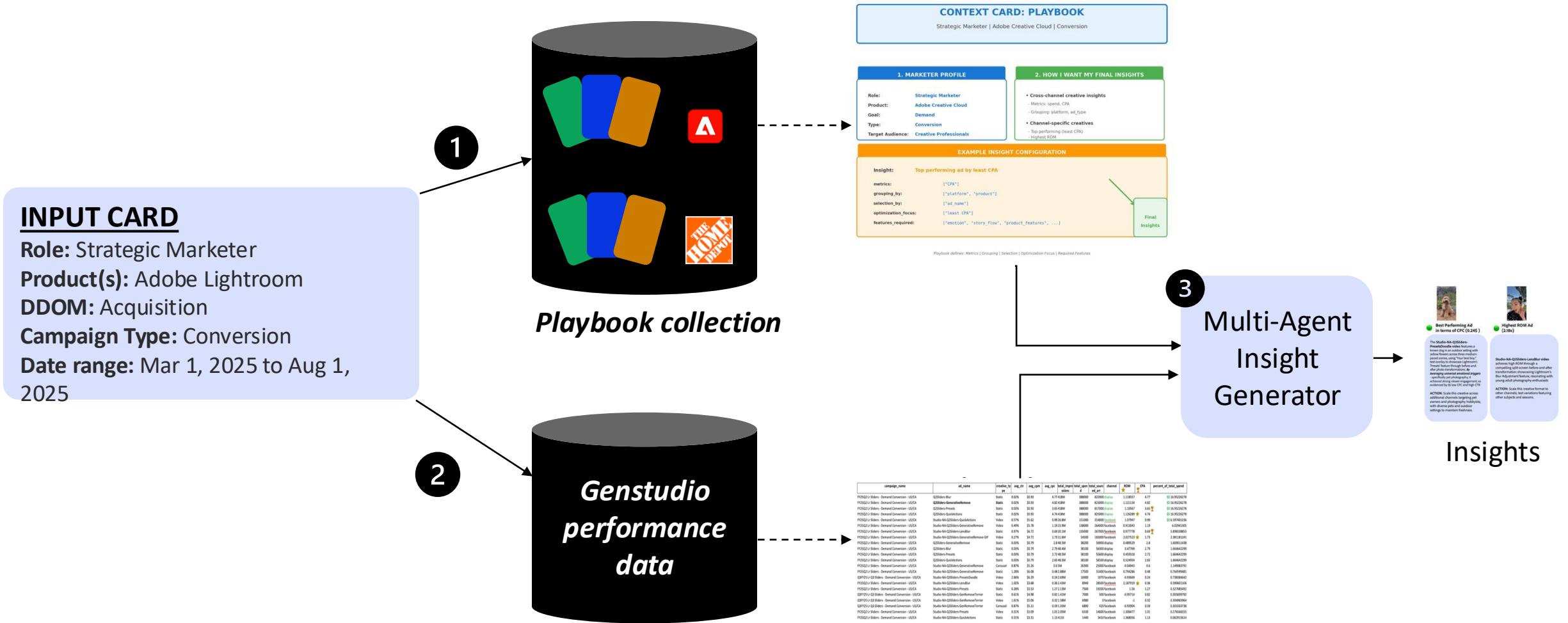


**Opportunity:** Unifying *all metrics across a group of campaigns based on user query* and translating them into *consistent, contextual insights*, we can:

- Reveal **which ads drives ROI** across channels and **why**.
- **Which ads are slow drivers** or negative drivers that should be recalibrated
- **What creative variants** could drive or improve ROI

**Goal:** Enable faster budget and creative decisions by enabling analysis guided by **explainable insights**.

# Workflow



**Role:** Strategic Marketer  
**Product(s):** Adobe Lightroom  
**DDOM:** Acquisition  
**Campaign Type:** Conversion  
**Date range:** Mar 1, 2025 **to** Aug 1, 2025.

*Who are you & what kind  
of campaigns do you want  
to analyze?*

## Dataset extracted to generate Insights on

campaign_name	ad_name	creative_type	avg_ctr	avg_cpm	avg_cpc	total_impressions	total_spended	total_sourced_arr	channel	ROM	CPA	percent_of_total_spend
FY25 Q2 Lr Sliders - Demand Conversion - US/CA	Q2Sliders-Blur	Static	0.02%	\$0.93	4.77	418M	388000	822000 display	1.118557	4.77	\$ 16.95226278	
FY25 Q2 Lr Sliders - Demand Conversion - US/CA	<b>Q2Sliders-GenerativeRemove</b>	<b>Static</b>	0.02%	\$0.93	4.82	418M	388000	823000 display	1.121134	4.82	\$ 16.95226278	
FY25 Q2 Lr Sliders - Demand Conversion - US/CA	Q2Sliders-Presets	Static	0.03%	\$0.93	3.65	418M	388000	817000 display	1.10567	3.65	\$ 16.95226278	
FY25 Q2 Lr Sliders - Demand Conversion - US/CA	Q2Sliders-QuickActions	Static	0.02%	\$0.93	4.74	418M	388000	825000 display	1.126289	4.74	\$ 16.95226278	
FY25 Q2 Lr Sliders - Demand Conversion - US/CA	Studio-NA-Q2Sliders-QuickActions	Video	0.57%	\$5.62	0.99	26.8M	151000	314000 facebook	1.07947	0.99	\$ 6.597401236	
FY25 Q2 Lr Sliders - Demand Conversion - US/CA	Studio-NA-Q2Sliders-GenerativeRemove	Video	0.49%	\$5.78	1.19	23.9M	138000	264000 facebook	0.913043	1.19	6.02941305	
FY25 Q2 Lr Sliders - Demand Conversion - US/CA	Studio-NA-Q2Sliders-LensBlur	Static	0.97%	\$6.72	0.69	20.1M	135000	267000 facebook	0.977778	0.69	5.898338853	
FY25 Q2 Lr Sliders - Demand Conversion - US/CA	Studio-NA-Q2Sliders-GenerativeRemove-GIF	Video	0.27%	\$4.71	1.73	11.6M	54500	165000 facebook	2.027523	1.73	2.381181241	
FY25 Q2 Lr Sliders - Demand Conversion - US/CA	Q2Sliders-GenerativeRemove	Static	0.03%	\$0.79	2.8	48.5M	38200	56900 display	0.489529	2.8	1.669011438	
FY25 Q2 Lr Sliders - Demand Conversion - US/CA	Q2Sliders-Blur	Static	0.03%	\$0.79	2.79	48.4M	38100	56300 display	0.47769	2.79	1.664642299	
FY25 Q2 Lr Sliders - Demand Conversion - US/CA	Q2Sliders-Presets	Static	0.03%	\$0.79	2.72	48.5M	38100	55600 display	0.459318	2.72	1.664642299	
FY25 Q2 Lr Sliders - Demand Conversion - US/CA	Q2Sliders-QuickActions	Static	0.03%	\$0.79	2.65	48.5M	38100	58100 display	0.524934	2.65	1.664642299	
FY25 Q2 Lr Sliders - Demand Conversion - US/CA	Studio-NA-Q2Sliders-GenerativeRemove	Carousel	0.87%	\$5.26	0.65	M	26300	25000 facebook	-0.04943	0.6	1.149083791	
FY25 Q2 Lr Sliders - Demand Conversion - US/CA	Studio-NA-Q2Sliders-GenerativeRemove	Static	1.28%	\$6.08	0.48	2.88M	17500	31400 facebook	0.794286	0.48	0.764599481	
Q3FY25 Lr Q3 Sliders - Demand Conversion - US/CA	Studio-NA-Q3Sliders-PresetsDoodle	Video	2.66%	\$6.29	0.24	2.69M	16900	1070 facebook	-0.93669	0.24	0.738384642	
FY25 Q2 Lr Sliders - Demand Conversion - US/CA	Studio-NA-Q2Sliders-LensBlur	Video	1.02%	\$3.68	0.36	2.43M	8940	28500 facebook	2.187919	0.36	0.390601106	
FY25 Q2 Lr Sliders - Demand Conversion - US/CA	Studio-NA-Q2Sliders-Presets	Static	0.28%	\$3.53	1.27	2.13M	7500	19200 facebook	1.56	1.27	0.327685492	
Q3FY25 Lr Q3 Sliders - Demand Conversion - US/CA	Studio-NA-Q3Sliders-GenRemoveTerrier	Static	0.61%	\$4.98	0.82	1.41M	7000	300 facebook	-0.95714	0.82	0.305839792	
Q3FY25 Lr Q3 Sliders - Demand Conversion - US/CA	Studio-NA-Q3Sliders-GenRemoveTerrier	Video	1.61%	\$5.06	0.32	1.38M	6980	0 facebook	-1	0.32	0.304965964	
Q3FY25 Lr Q3 Sliders - Demand Conversion - US/CA	Studio-NA-Q3Sliders-GenRemoveTerrier	Carousel	0.87%	\$5.11	0.59	1.35M	6890	420 facebook	-0.93904	0.59	0.301033738	
FY25 Q2 Lr Sliders - Demand Conversion - US/CA	Studio-NA-Q2Sliders-Presets	Video	0.31%	\$3.09	1.01	2.05M	6330	14600 facebook	1.306477	1.01	0.276566555	
FY25 Q2 Lr Sliders - Demand Conversion - US/CA	Studio-NA-Q2Sliders-QuickActions	Static	0.31%	\$3.51	1.13	411K	1440	3410 facebook	1.368056	1.13	0.062915614	

\* Note: CPA values are imagined for analysis purposes. ROM = (ARR - Spend) ÷ Spend

# ACTION: STRATEGIC RECOMMENDATIONS

## 🚫 Poor Performers: Pause or Investigate

1. **GenRemoveTerrier — Pause:** This **video** ad on **Facebook** is reporting negative returns (-1.0 ROM) with narrow use case (pet background removal)

**Action:** Pause immediately and reallocate budget to LensBlur. Investigate narrow audience targeting.

2. **Presets — Investigate:** This **static** ad on **display** with highest budget Spend (\$388K)

reports low ROM (0.459) despite significant spend

**Action:** Conduct conversion funnel audit and A/B test broader editing messaging.

Reduce spend, reallocate to LensBlur while optimizing targeting.



Make your perfect moment pop with Presets.

Learn more

Adobe Lightroom

An advertisement for Adobe Lightroom. It features a photo of a couple kissing. To the right of the photo is the text "Make your perfect moment pop with Presets." Below that is a "Learn more" button and the "Adobe Lightroom" logo.

## 🚀 Untapped Potential: Boost

1. **LensBlur — Scale :** This **static** ad on **Facebook** reported highest ROM (2.18) with 8.9k\$ budget spend which is 0.39% of the total budget as

opposed to highest budget spent on an ad being 16%

**Action:** Increase budget slightly to test efficiency ceiling. Scale across additional platforms and enhance CTA to drive conversions.



## ✓ Good Performers: Maintain & Optimize

1. **QuickActions — Maintain & Optimize:** Good ROM (1.079 and 1.12) on both static **display** and **facebook** video creatives -- trusted brand appeal for selfie enhancement

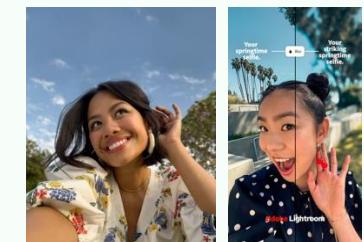
**Action:** Maintain spend and optimize targeting to improve CPA. Refine CTA and test creative variations for incremental improvements.

2. **LensBlur — Maintain & Optimize:** This **static** ad on **Facebook** reported good ROM (1.12), low CPA with high investment (135k) - Keep the ad active while introducing minor creative updates to keep it fresh.

Instantly get better selfies with Quick Actions.

Learn more

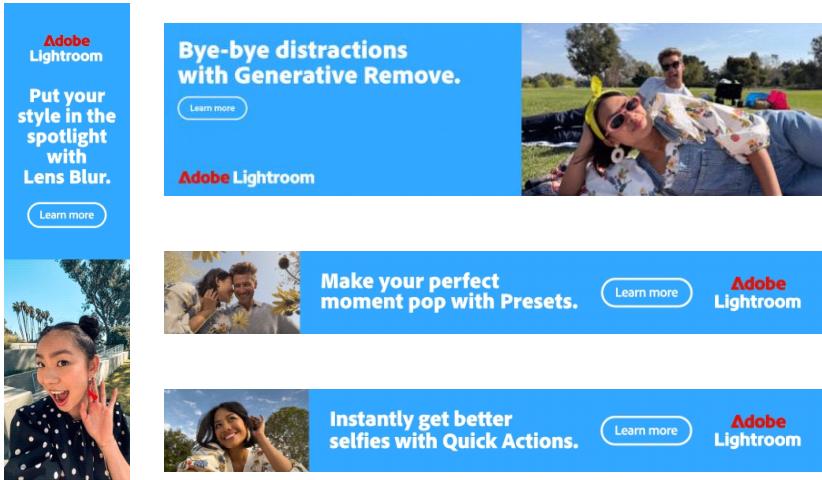
Adobe Lightroom

An advertisement for Adobe Lightroom. It features a woman taking a selfie. To the right of the photo is the text "Instantly get better selfies with Quick Actions." Below that is a "Learn more" button and the "Adobe Lightroom" logo.

# A. CROSS-CHANNEL CREATIVE OVERVIEW

## 1. Highest Spend by Channel

### Display



### Facebook



- On the Display platform, the "**FY25Q2 Lr Sliders - Demand Conversion - US/CA**" campaign allocated an equal budget of **\$388,000** across four ads: **Q2Sliders-Blur**, **Q2Sliders-GenerativeRemove**, **Q2Sliders-Presets**, and **Q2Sliders-QuickActions**, each commanding **16.95%** of overall spend.

- Studio-NA-Q2Sliders-QuickActions:** This ad commanded highest total spend of **\$151,000** on Facebook, representing **6.6%** of the total spend.
- The video showcases a person outdoors in a floral dress with text overlay "Your beautiful smile," highlighting different Quick Actions UI to enhance subject, sky with a more vibrant after transformation shown.

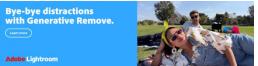
# A. CROSS-CHANNEL CREATIVE OVERVIEW

## 2. Highest CPA by creative type



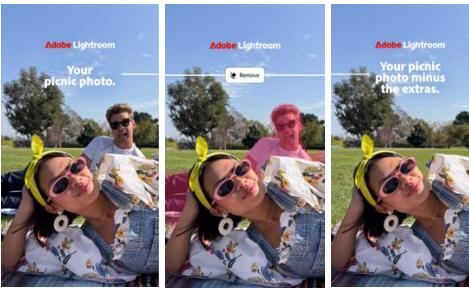
### Static

Q2Sliders-  
GenerativeRemove  
**Channel:** Display  
**CPA:** 4.82\$



### Carousel

Studio-NA-Q2Sliders-GenerativeRemove  
**Channel:** Facebook **CPA:** 0.6\$



### Video

**CPA:** 1.19\$



## 3. Top spending + most efficient CPA creatives



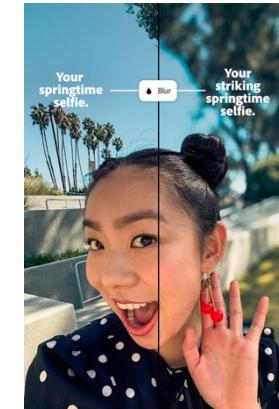
### Display

Q2Sliders-Presets **Spend:** 388k **CPA:** 3.65\$



### Facebook

Studio-NA-Q2Sliders-  
LensBlur  
**Spend:** 135k **CPA:** 0.69\$



- On **Display & Facebook** channels, the ad commanded the highest CPA in **static** and **video** formats, featuring a sequence of images depicting Adobe Lightroom's Generative Remove tool used to remove background person.
- The high CPA indicates inefficiencies, possibly due to **targeting or messaging misalignment**.

**ACTION:** Re-evaluate audience targeting to ensure the ads are reaching potential high-intent users who value professional-quality edits. Conduct testing with different variations to identify what resonates best with the target audience and reduces CPA.

- On **display** channels, the ad with highest budget allocation **\$388,000 and efficient CPC (3.65\$ CPC)** showcases Adobe Lightroom's Presets featuring a couple surrounded by flowers . Meanwhile, on **Facebook**, the top spending efficient ad (**\$135,000 ,0.69\$ CPC**) utilizes a split-screen to demonstrate Lightroom's Blur editing feature, effectively showcasing a before-and-after transformation of a young girl wearing polka dots.
- The relatively lower CPC of the **LensBlur** ad on Facebook suggests it might be capturing a more cost-effective audience.

**ACTION:** Bolster the Facebook campaign, leveraging its lower CPC for broader reach. Investigate potential overspending or underperformance in display channels, ensuring campaign is meeting conversion goals.

## B. CHANNEL-SPECIFIC CREATIVE INSIGHTS

Display

### Q2Sliders-QuickActions



Instantly get better  
selfies with Quick Actions.

Learn more

Adobe  
Lightroom

Best Performing Ad  
in terms of CPC (2.65\$)

Highest ROM Ad  
(1.13x)

Highest budget share with ROM  
(16.95% of total spend, 1.12x ROM)

- This **Q2Sliders-QuickActions** gif ad features a young woman outdoors taking a selfie, featuring multiple Quick Actions Lightroom leading to better selfies with a clear CTA "Learn more" button.
- By addressing the common need for enhanced selfies, the ad leverages Adobe Lightroom's Quick Actions feature as a straightforward solution for photo editing enthusiasts seeking immediate results achieving a satisfactory ROM of 1.13\*

**ACTION:** To maintain and expand the success of this ad, test scaling and creating variations that highlight other Quick Actions features and settings, such as indoor photography or group photos, to broaden appeal. Consider implementing A/B testing to refine messaging and visual elements, with an expected impact of increased CTR and ROM.

### Q2Sliders-Presets



Make your perfect  
moment pop with Presets.

Learn more

Adobe  
Lightroom

Underperforming Ad in  
terms of ROM (0.46x)

- This ad features **Adobe Lightroom's Presets** with couples appearing in a vibrant before/after gif transition surrounded by sky and flowers. The ad employs a professional color scheme with balanced, diverse hues to maintain a polished aesthetic, appealing to aspiring photographers.

**ACTION:** To address the underperformance in ROM, Consider testing with different versions and landing pages specifically tailored to niche audience groups

\* Showing shortened creative summary & reasoning

## B. CHANNEL-SPECIFIC CREATIVE INSIGHTS

Facebook



### Best Performing Ad in terms of CPC (0.24\$ )

The **Studio-NA-Q3Sliders-PresetsDoodle** video features a brown dog in an outdoor setting with yellow flowers across three medium-paced scenes, using "Your best boy." text overlay to showcase Lightroom's 'Presets' feature through before-and-after photo transformations. **By leveraging universal emotional triggers** - specifically pet photography, it achieved strong viewer engagement, as evidenced by its low CPC and high CTR.

**ACTION:** Scale this creative across additional channels targeting pet owners and photography hobbyists; with diverse pets and outdoor settings to maintain freshness.



### Highest ROM Ad (2.18x)

**Studio-NA-Q2Sliders-LensBlur** video achieves high ROM through a compelling split-screen before-and-after transformation showcasing Lightroom's Blur Adjustment feature, resonating with young adult photography enthusiasts.

**ACTION:** Scale this creative format to other channels; test variations featuring other subjects and seasons.



### Highest budget share with ROM (6.59% of total spend, 1.079x ROM)

**Studio-NA-Q2Sliders-QuickActions** effectively showcases multiple "Quick Actions" with slow pacing ensuring clarity. It opens with a pleasant scene with young woman in floral dress against blue skies, featuring text overlay and strategically placed UI elements ("Quick Actions," "Auto" buttons) demonstrating quick photo edits.

**ACTION:** Scale campaign to similar demographics in additional regions/platforms; increase spend allocation given positive ROM to maximize acquisition.



### Underperforming Ad in terms of ROM (-0.96x)

**Studio-NA-Q3Sliders-GenRemoveTerrier** ad underperformed (ROM: -1.0) despite emotionally engaging dog content due to slow pacing, limited visual variety, and limited call-to-action ("try now/get started").

**Action:** Pause ad and analyze conversion path; re-evaluate messaging alignment with stronger, direct call-to-action.

# Next

## Data-driven content modification

Based on past data and insights, modify existing content to create variants ***that will perform better***

# Outline

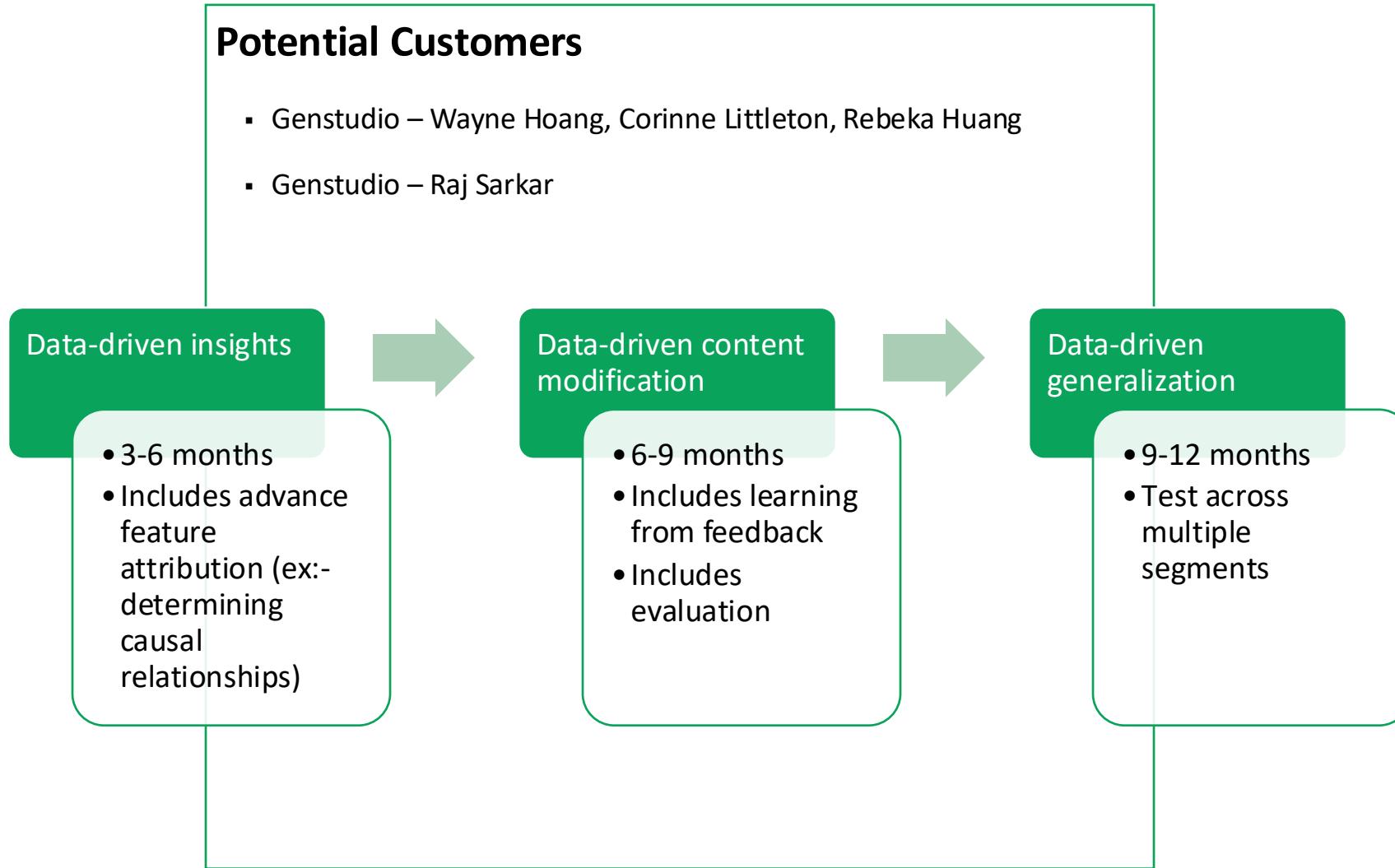
Main Research  
Challenges

Research  
Objectives

Existing  
Explorations

Future  
steps

# Next Steps



# Parallel collaborations

- Evaluation of short-videos

- Uttaran, Digbalay, Ananya Sai – Evaluation metrics to evaluate quality of intermediate and final assets  
Learnings from: Project Silverscreen, Doc2Video, Slides2Video

- Short-video efficient tool-calling

- Mira, Valentina, Bryan, Fabian – Project [X]  
Learnings from: Project Roughcut, Project Storybuilder

