Teen Girls Body Image and Social Comparison on Instagram— An Exploratory Study in the U.S.

This document from Facebook researchers, posted in early 2020 on an internal company site, examines teenage girls' experiences with appearance comparisons on social media and how that affected their body image and mental health. In the document, the names of Facebook employees whose names appear in the documents have been redacted, excepting only the most senior. Every named person has been contacted and given an opportunity to comment. Third-party images that aren't directly relevant to the research have been pixelated. And some title pages were modified to remove extraneous material.

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Teen Girls Body Image and Social Comparison on Instagram - An Exploratory Study in the US

We conducted focus groups and diary study in the US to better understand teen girls' experience with appearance comparison on social media and how this impacted their body image and overall mental health.

We found that:

- Body image comparisons are formed by a trifecta of factors: body standards, flawless skin, and fashion. Other social comparisons include influencer "money for nothing" lifestyles, relationships (family and romantic), travel, experiences, and talents.
- Social comparison journeys mimic the grief cycle. Pre-existing moods are a precursor to a downward emotional spiral, encompassing a range of emotions from jealousy to selfproclaimed dysmorphia.
- Confidence-building and inspiration are rooted in the combination of reality, accessibility, and attainable aspiration.
- Social comparison is worse on Instagram. It is perceived as real life, but based on celebrity standards. Explore and profile stalking enables never-ending rabbit holes.
 Celebrity content is more frequent but friends' content is more impactful in terms of social comparison.
- Other apps are shielded by fun filters. TikTok is grounded in dance, fun. Snapchat is sheltered by the element of fun that keeps focus on the face and not the body and sharing with close friends. At the other extreme, VSCO is a detached dream that is 100% edited.

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Low body image, self-esteem



Social Comparison Exploratory Research

, Product Research Marketing Insights

Objectives

Instagram's investment in teen well-being is expanding to encompass social comparison, focusing first on appearance-based social comparison and its negative impact on teen girls' body image

WE CONDUCTED RESEARCH TO:

- Obtain a more detailed and nuanced understanding of social comparison, especially appearance-based comparisons, on Instagram among female Instagram users and how it impacts their body image
- Understand how female Instagram users think the app affects their tendency to compare themselves to others
- Receive initial feedback on social comparison product ideas

IN ORDER TO:

- · Inform product teams how to best support teens in this space
- · Inform outreach teams on how we might build meaningful and impactful campaigns in this space

Methodology

	In-person qualitative	Online Diary Study	In Depth Interviews
Sample size	15	10	7
Markets	San Ramon, USA	US	US
Recruitment	Regionally representative third-party panels	Nationally representative third- party panels	Participants from online diary study
Tasks	2-hour in-person focus groups (5 per group)	5-day diary study	30-minute VC conversation
Qualifications	Monthly Instagram user Age 13-21 Low body image, self-esteem	Monthly Instagram user	
	Low body image, self-esteem		

Executive Summary

- Body image comparisons are formed by a trifecta of factors: body standards, flawless skin, and fashion. Other social comparisons include influencer "money for nothing" lifestyles, relationships (family and romantic), travel, experiences, and talents.
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Executive Summary

- We can help break the cycle of social comparison: celebrate small but meaningful accomplishments; show progress toward a goal; customize and personalize Instagram experience; personalized time-out mindfulness breaks that break the spiral; surface body inclusive influencers and flip the switch from envy to inspiration
- We have opportunities to engage at each step of the social comparison journey by creating targeted product interventions specific to surface, content type and graph
- Communications in the realm of social comparison need to be validating, realistic, and sympathetic. The source needs to be someone perceived as imperfect but accepting their own flaws rather than someone portraying a perfect image.



Background

Why start with appearance comparison and body images in teen girls?

Why? Frequent social comparison is a key driver of subjective well-being and teens say IG makes this problem worse.

66%

52%

32%

of teen girls on IG experience negative social comparison (compared to 40% of teen boys) Of teen girls who experienced negative social comparison on Instagram, said it was caused by images related to beauty

of teen girls said that when they felt bad about their bodies, Instagram made them feel worse

Background - Appearance Comparison

(Negative) Social Comparison

- Definition: When someone feels bad about themselves after comparing themselves with others
- Includes: Triggers range from appearance (appearance comparison) to socioeconomic status

Body Image

- Definition: A person's perceptions or feelings about their body or physical appearance
- Includes: Body dissatisfaction, body dysmorphia and eating disorders. Can be triggered by appearance comparisons or health issues

This work examines the intersection of these two problems. Namely, how appearance comparisons on IG can worsen teen girls body image

Background - Appearance Comparison

(Positive) Social Comparison

- Definition: When someone feels inspired/ motivated after comparing themselves with others
- Includes: Similar to negative social comparison, there can be wide range of triggers



Triggers

What are the common triggers of social comparison for teen girls?
When do they feel bad about themselves vs. inspired or motivated as a result of these comparisons?

Teen girls say most comparisons are related to body or appearance OTHER COMPARISONS BODY, APPEARANCE **Fashion** Seemingly Lifestyle Lifestyle Attainable "Money for nothing "Money for nothing" Couples Seemingly Travel/Experiences Unattainable Skin FOMO Talent Body Friends + Family Religion Confidence Facial Features Hair (Snapchet exacerbates)

nvy can be triggered by any number of factors, from celebrities to feeling untalented



While inspiration is triggered by accessible celebrities, "real" life on Instagram, and feeling validated



Inspiration is triggered by confidence and motivation





What flips the switch?

When does content about body and appearance trigger envy/depression and when does it trigger inspiration?

Images related to body and appearance can trigger inspiration instead of envy

Envy/ Anger

What flips the switch?

Inspirational + Motivating

Certain kinds of content only trigger envy

1. Lack of context

- Not knowing how someone got to the point they did
- Focus on outcome instead of journey

2. Fixation on body or parts of body

 Focus on perfect body parts instead of value beyond it

3. Exclusionary and fixed standards

· Size 0 models, Diet tea ads

3. Dishonesty

Using hashtags like no-filter but actually using filters

Even if not like them, moment of relatability makes big difference

- 1. Attainability Seeing how far someone's come
 - They have worked hard.
 - They have been me (feel insecure, jealous).

2. Value beyond body, relatability, contextualization

- · Beautiful woman on a beach, sunny, happy, positive glasses
- Models working hard, passionate, successful beyond looks.
- Image informational, interesting.

3. Inclusive (curvy, bigger) beauty standards

- · Body positivity, made them feel seen/ appreciated
- 3. Vulnerability and sharing the journey
 - · Personal stories of vulnerability and sharing the journey
- 5. Fitness content that is informative

Images related to body and appearance can trigger inspiration instead of envy

Envy/ Jealousy

What flips the switch?

Inspirational +
Motivating

"What cuts deepest is no filter
filters, they are lying and
edited, they are lying and
pretending they have no blemishes
and saying I'm perfect"
- US 14 ye Female

"What changes things and inspires me is when people show their flaws, they're vulnerable, like their stretch marks or the stories about what they're dealing with because everyone's going through stuff—US 16 yo Female

"Envy turns to inspiration when I look at someone bettering themselves, like if there's a picture of a model but she's working hard and she has passion and that's what leads to her success" -US 14 yo Female

Mindfulness Breaks that prompt reflection can break the spiral

"Reflecting back, you realize that Instagram is not really real, it is meant to be creative and fun and not meant to make people sad" -US 16 yo Female

Reflection = Power/Control/Responsibility

- Learned helplessness is replaced with responsibility/control
- Awareness provides perspective.
 "I didn't realize it is a THING in my life", "Why do I care?"
- Turns external focus inward
 "Why not focus on myself and my confidence and being my best self", "I can change my thought patterns"
- Solidifies Instagram as Creative vs. Real life



User Journey

What happens emotionally when teen girls see content that triggers appearance comparison?

What does the journey from social comparison to negative outcomes (like stress, anxiety or depression) look like?

Higher standards decrease self-esteem, until they're recognized as being unattainable



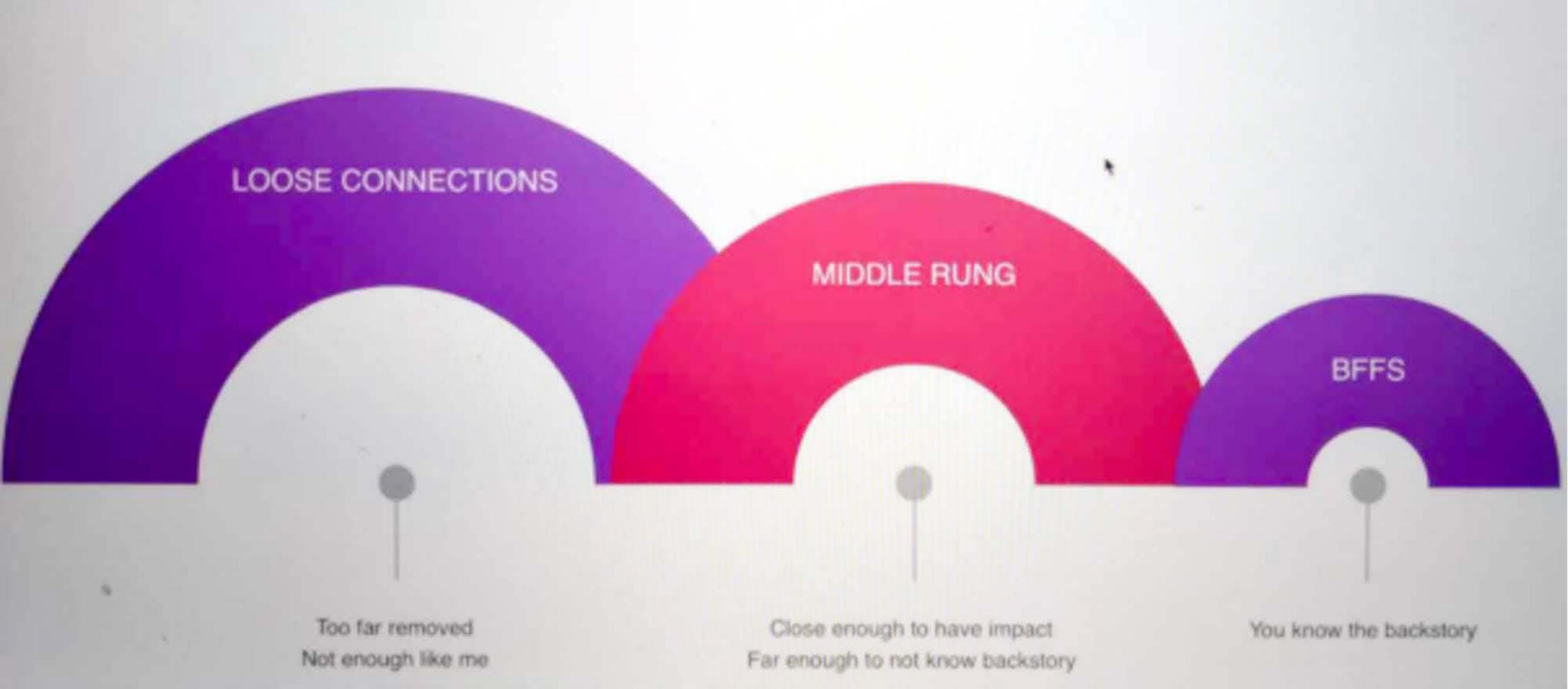
The impact of celebrity content is amplified by mimicry and frequency

- Each individual post or story from a celebrity or influencer has a small impact on users.
- However, users report seeing multiple pieces of content from many celebrities and influencers in each app session, amplifying their effect.
- In addition, their friends mimic celebrities' beauty and fashion standards, further compounding the effect of any one piece of content.



Content from the middle rung of friendships engender the most social comparison

Middle rung friends aren't BFFs but are more than just classmates



Comparisons on Instagram can change how young women view and describe themselves



The effect of any piece of content is a combination of four key factors



Once on a spiral, teens work through a series of emotions that in many ways mimic stages of grief



Bargaining

Questioning what I don't have Wondering what I need to do to get Judgment about other people. Analysis of current habits

Self-described dysmorphia

Mirror, see myself "wrongly", pick out insecurities. See issues through magnifying glass. Obsess over small things

Paralysis

Bully with school/work. Put off changes to later

Insecurity

Feeling "less than" Small Alone Misrepresented

Anger

Mad Edgy Short-tempered

Withdrawal

Give up Stay home Distractions

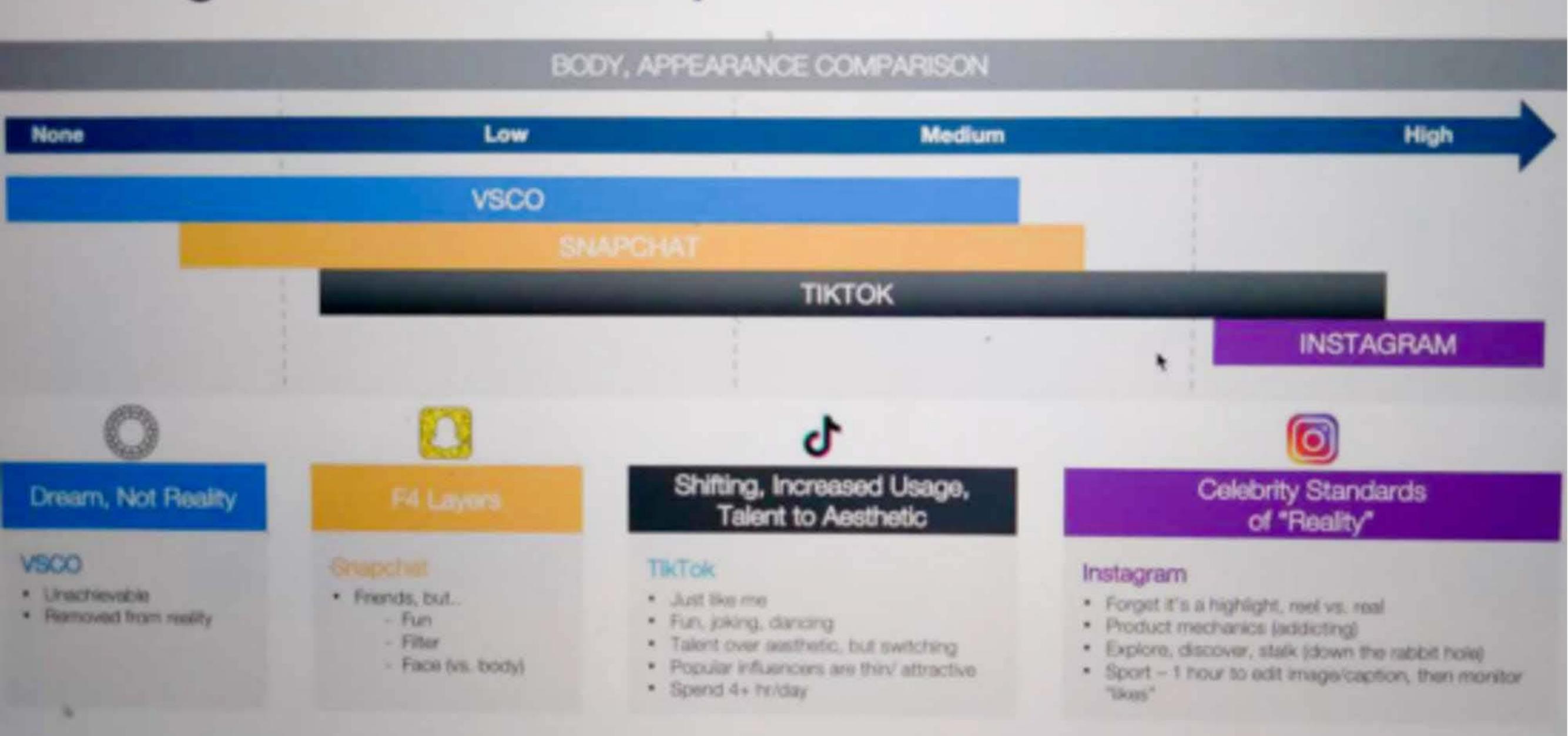


Role of Social Media

What role does Instagram play in this journey?
What role do our competitors play?

Is Instagram better/worse than Snap, Twitter or Tiktok? Why, Why not?

Instagram is seen as having the highest impact, although TikTok and Snapchat aren't far behind



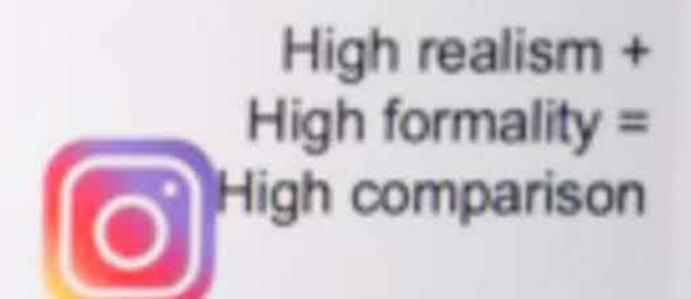
Apps' contributions to social comparison lie on two axes -- perceived reality and formality

High realism +
Low formality =
Medium comparison
You This



Low realism +
Low formality =

Low comparison





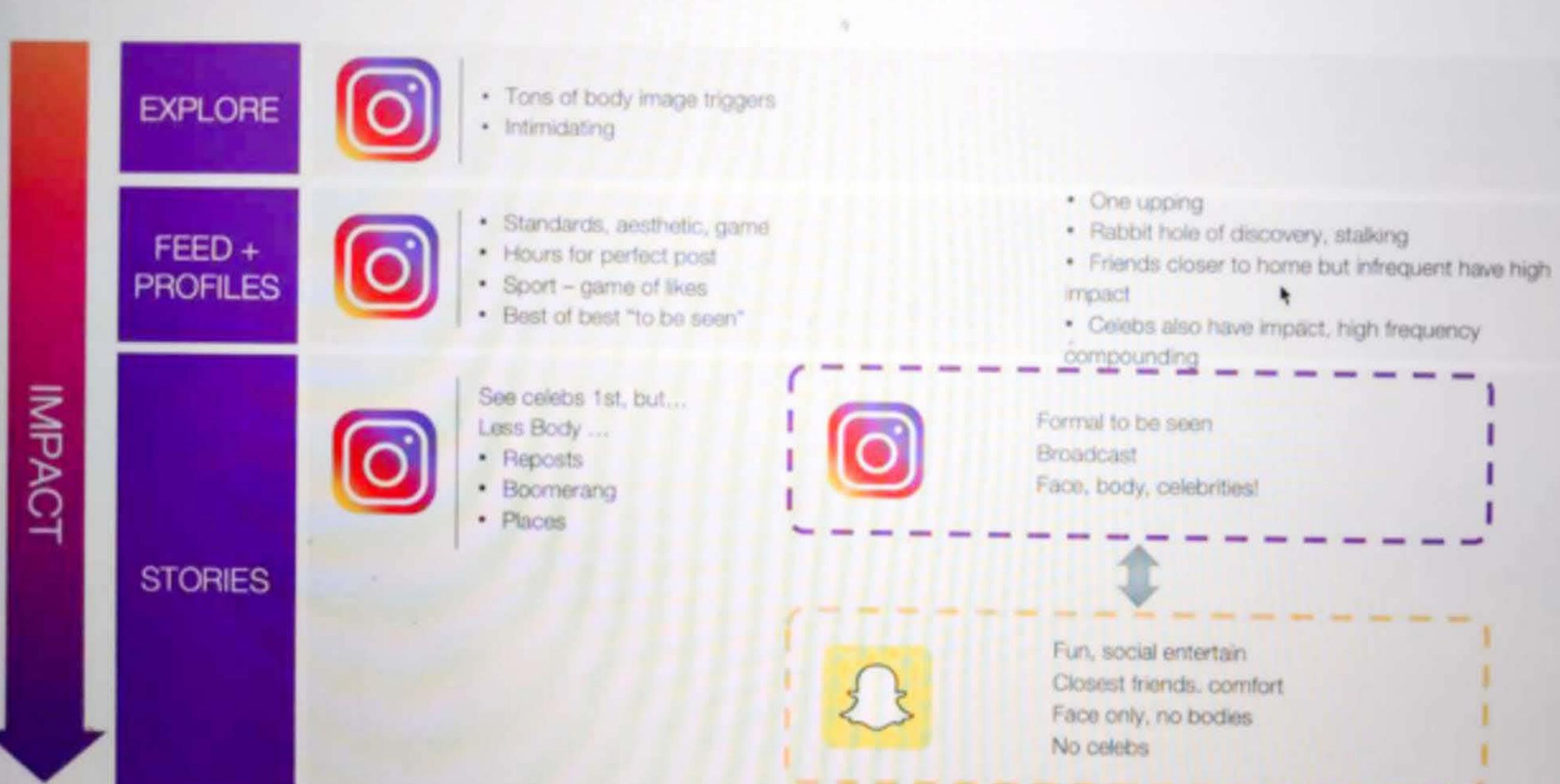
vsco

Low realism +

High formality = Medium comparison

Perceived formality

On Instagram, Explore, Feed, and Stories contribute to social comparison but in different ways



Users experience of downward spiral is exacerbated by our platform



Aspects of Instagram exacerbate each other to create a perfect storm



Hate to love

Mental health outcomes related to this can be severe

Eating Disorders

"I keep looking at these images (spiralling). (After getting off IG) I don't know, sometimes I just don't eat or try to eat less."

Body Dysmorphia

"I wish I had the money to get my nose/(other body parts) fixed."

Body Dissatisfaction

"(when I keep looking at these pictures) I feel like I am too big and not pretty enough"
"It makes me feel insecure about my body even though I know I am skinny."

Depression

"The constant judgement and jealousy can take you to a dark place."

"Some times (after spiralling) I just close my phone and lie on the bed."

Loneliness

"I feel like maybe (because I look like this) I don't have a boyfnend," "I saw this kid with acne and he had friends! I didn't realize that was possible."

External factors impact whether users go down healthy or unhealthy path

HEALTHY

Work on internal confidence (self talk)

 I am good enough, focus on what makes you valued and unique

Companionship

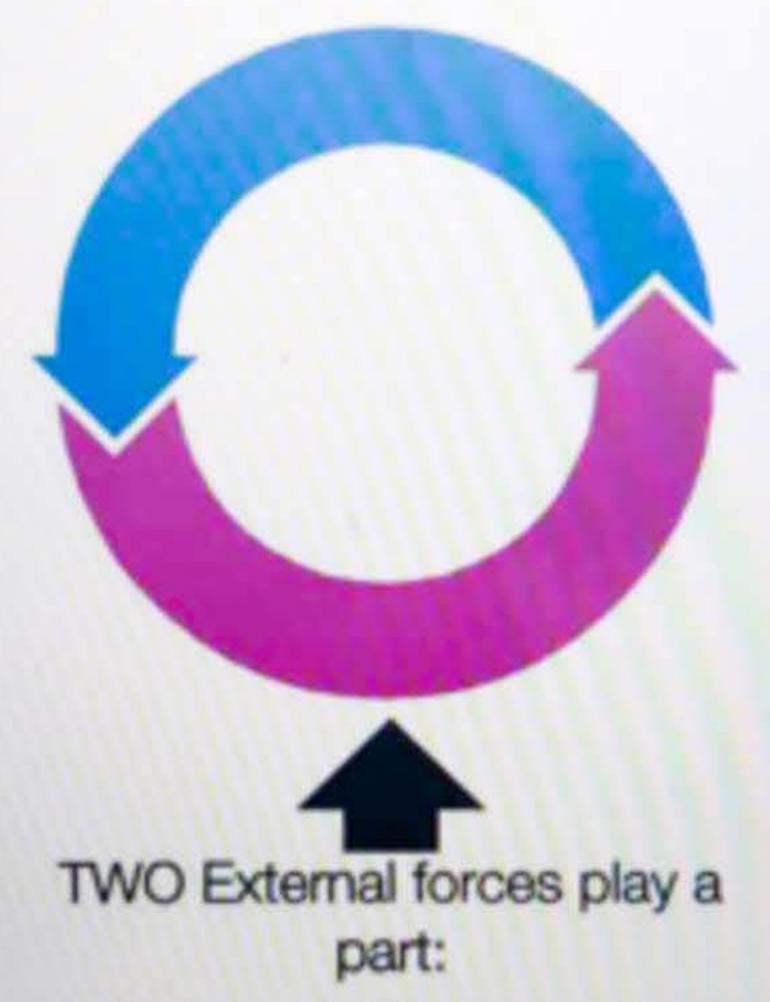
· Be with friends who love me

Inspirational Quotes

- Away from what we don't have and toward what we have
- "Comparison is the thief of joy"

Get off phone

Walk, bike, be with family and friends



#1 Bad mood - life events, physical and mental health

#2 Maturity = perspective + confidence

UNHEALTHY

Dysmorphia

Pick out bad things in mirror

Emotional isolation

- Comparison and loneliness go hand-in-hand
 - Acne = people don't want to be around me
 - Body image = not worthy of a boyfriend/girlfriend

Emotional exhaustion

Stay home, sleep

Anger, irritability followed by feeling BAD not MAD

Coordinated product and outreach efforts can help flip the switch from negative to positive social comparison





Conclusion

Key take-aways and what this means for product development

Conclusion

- Body image comparisons are formed by a trifecta of factors: body standards, flawless skin, and fashion. Other social comparisons include influencer "money for nothing" lifestyles, relationships (family and romantic), travel, experiences, and talents.
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 extreme, VSCO is a detached dream that is 100% edited.

Targeted Interventions

- · Celebrate small but meaningful accomplishments to show users their lives are moving forward.
- Show progress toward a goal showing the journey rather than just the destination highlights the work in progress that is life.
- Customize and personalize Instagram experience: allow users to easily show dislike for types of content
 to customize the algorithm on Explore. Allow for easier graph trimming, both for who they follow and who
 follows them.
- · Personalized time-out mindfulness breaks help people remember that Instagram isn't real life.
- · Surface body inclusive influencers to make teens feel validated and included.
- Flip the switch from envy to inspiration through concerted effort to change norms around sharing and surfacing highlights that are inspiring but not triggering.
- · Surface "fun" filters rather than filters designed around beautification.

Targeted interventions

- Lean into current time spent tools to remind teens to take a break from Instagram.
- Communications should be empathetic but realistic; often it's as simple as validating the experience of teens and telling them it's OK.
- Showcase body inclusive influencers in campaigns to help teens feel included and validated. Celebrities
 that accept and poke fun at themselves have most positive impact than influencers who present ideal
 lifestyles.
- Highlight transformation journeys, especially those with realistic starting points, rather than celebrating end points.

Relevant Research

- Social Comparison on Instagram
- Defining Body Image Issues
- What we know about Body image
- Authenticity and Self Expression on Instagram

OTHER

- Teen Mental Health Deep Dive
- Hard Life Moments Subjective Well-being on Instagram
- Upward Social Comparison Treatment Approaches
- Defining a vision and strategy for Social Comparison