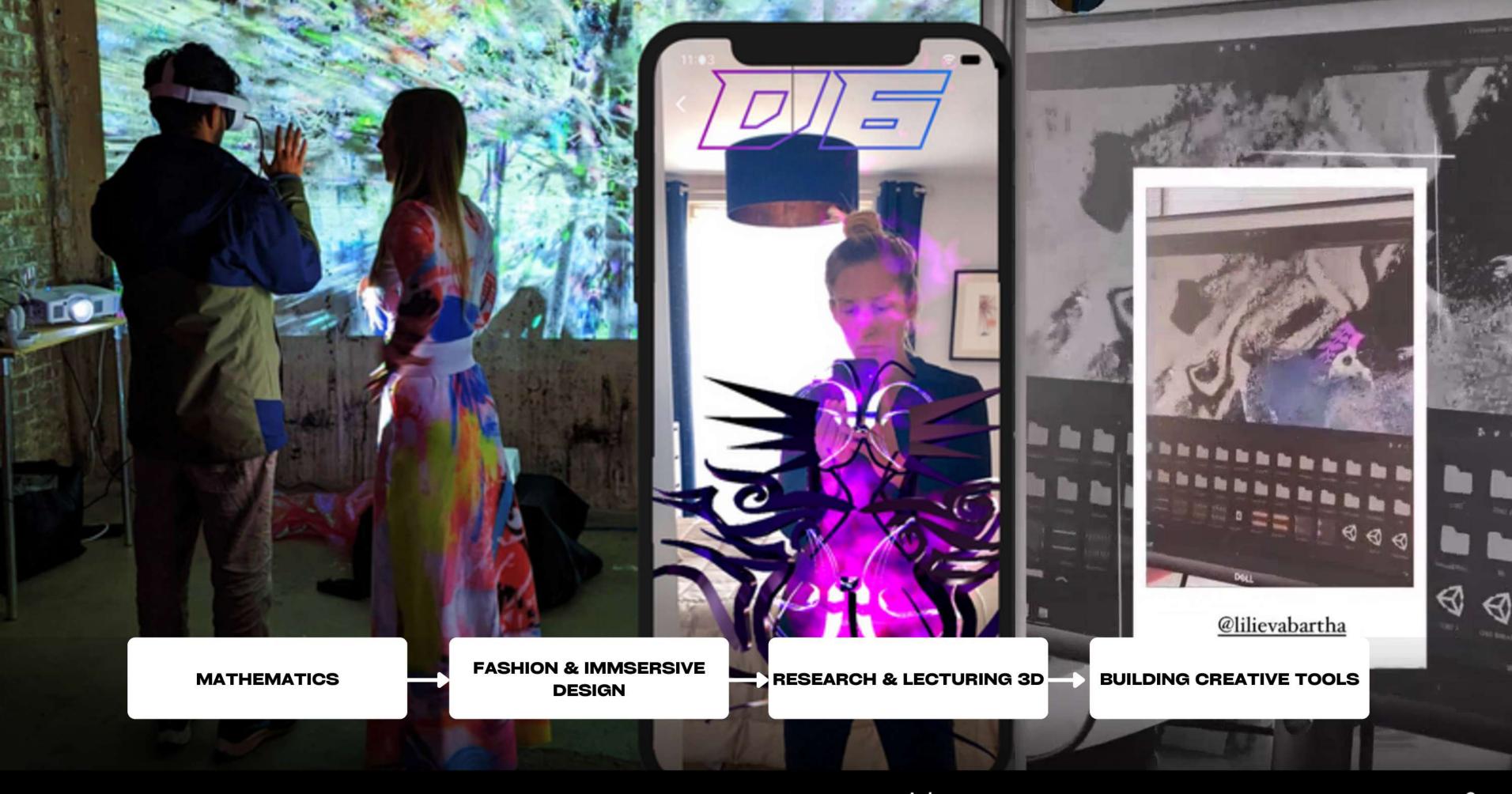


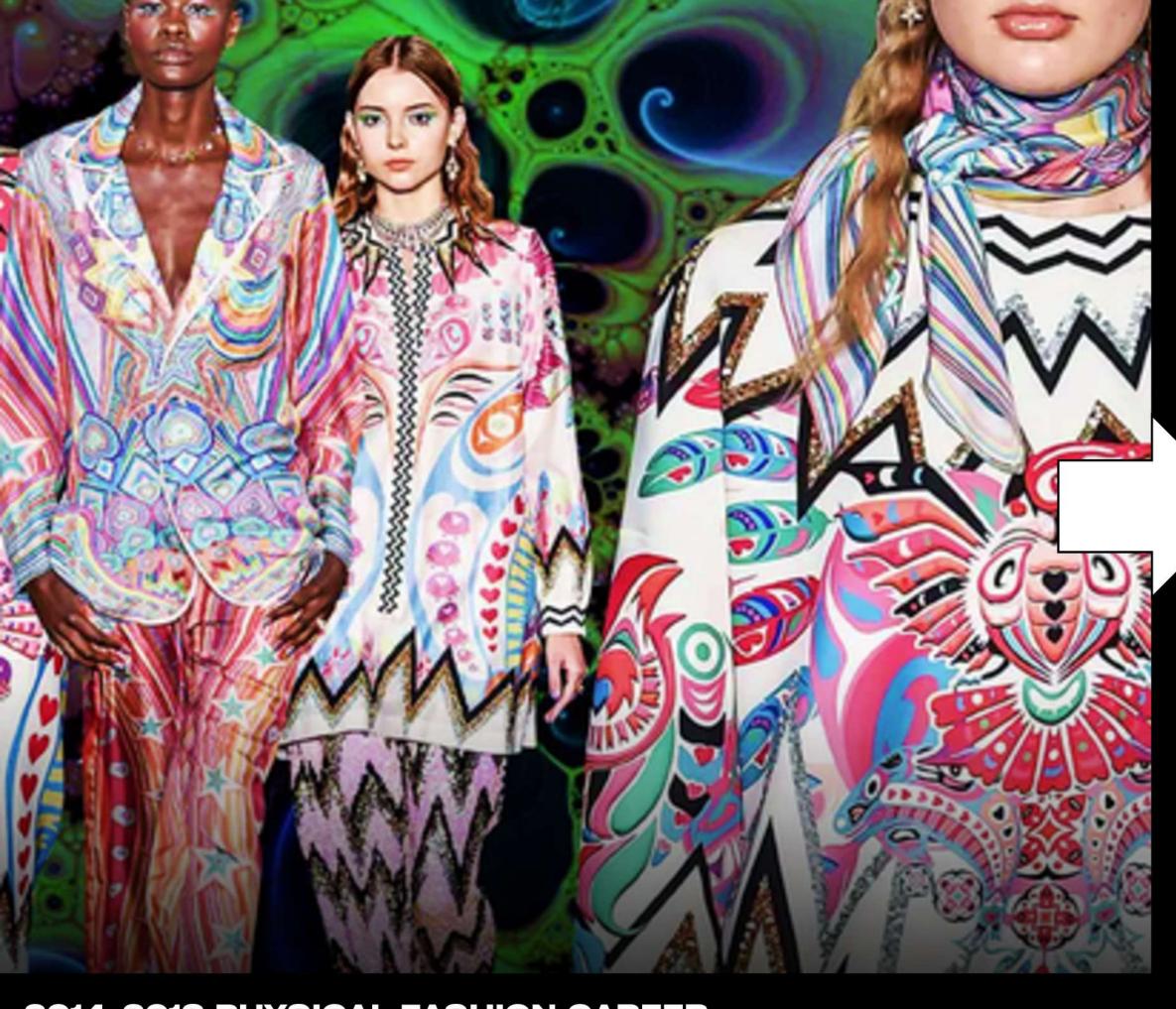
VIRTUAL SELF-EXPRESSION, CULTURAL TOOLING, AND GENERATIVE PIPELINES

LILI EVA BARTHA FOUNDER & CEO GENERA LABS



FROM DESIGNER TO BUILDER

WHAT DOES BY CREATORS FOR CREATORS REALLY MEAN?



ENVIRONMENTAL IMPACT FASHION & TEXTILE INDUSTRY

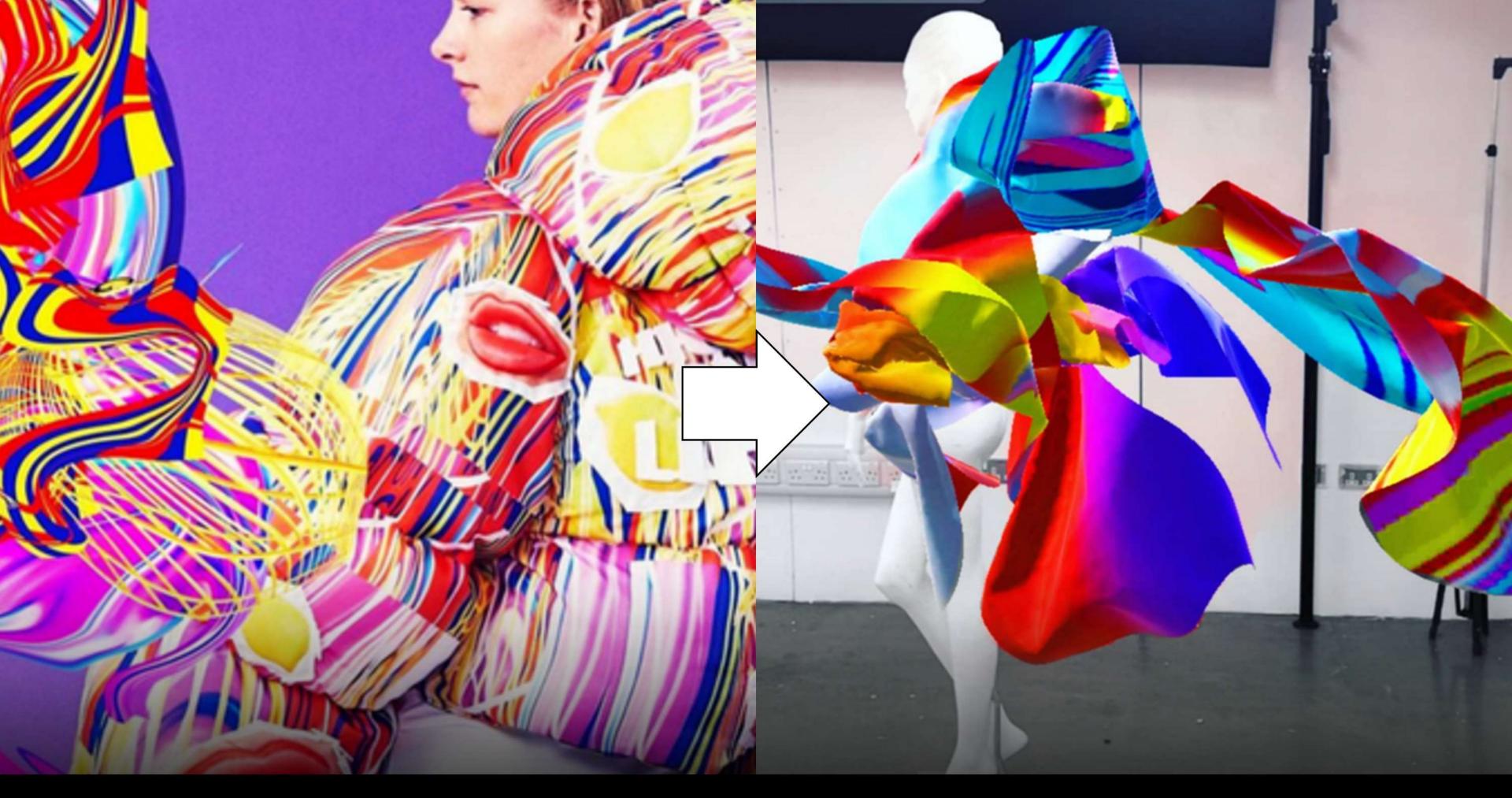
FASHION PRODUCTION
ACCOUNTS FOR 10% OF
TOTAL GLOBAL CARBON
EMISSIONS

10-40% OF THE 80BN - 150BN GARMENT MADE ARE **NOT SOLD** BUT END UP IN **LANDFILL**

9 PERCENT OF SHOPPERS
IN BRITAIN ADMITTED TO
BUYING CLOTHES ONLINE
FOR INSTAGRAM

MCKINSEY 2019, WGSN 2023, BARCLAYS SPEND REPORT 2022 WRAP 2023, VOX 2020

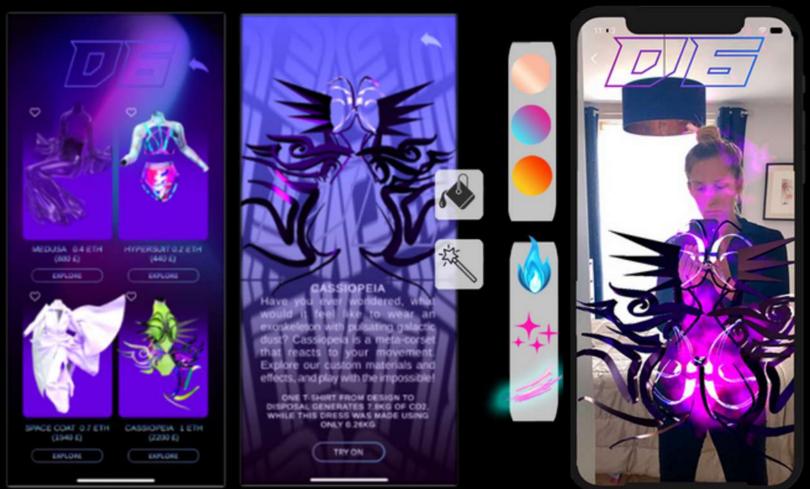
2014-2018 PHYSICAL FASHION CAREER



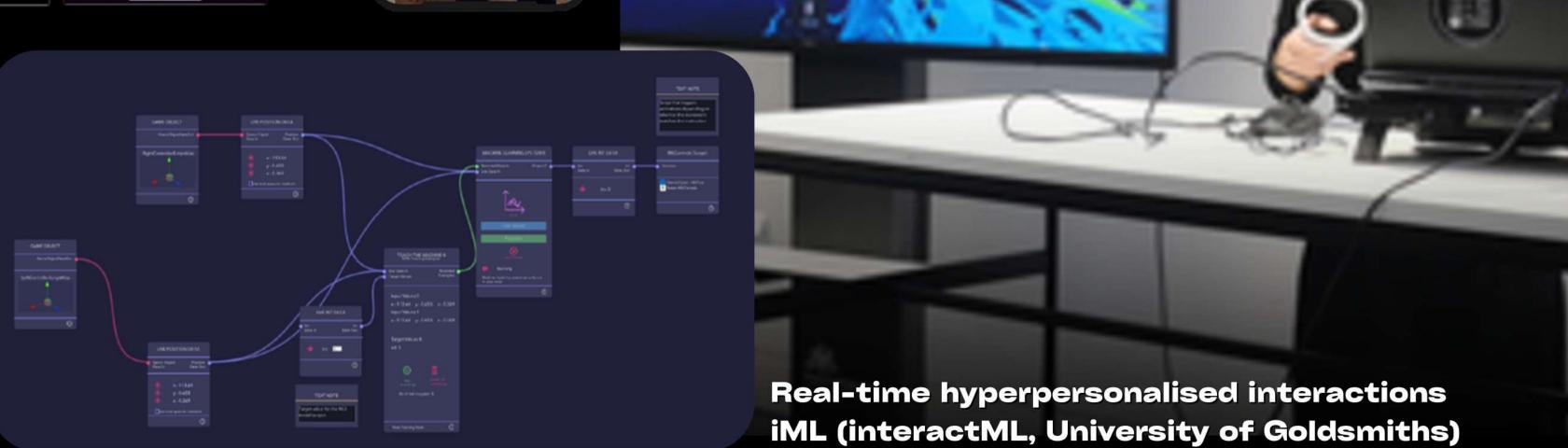
2018 ONWARDS - PHYSICAL TO DIGITAL FASHION (FIRST AR OUTFIT USING CLO3D AND VUFORIA)



2020-2021 - VR WORK CREATED AS ARTIST IN RESIDENCE - IDEATION STAGE FOR THE DFF SYSTEM



VR vs AR





2021 - FINAL OUTPUT: 6DOF VR PIECE PRESENTED AT MOZILLA FESTIVAL

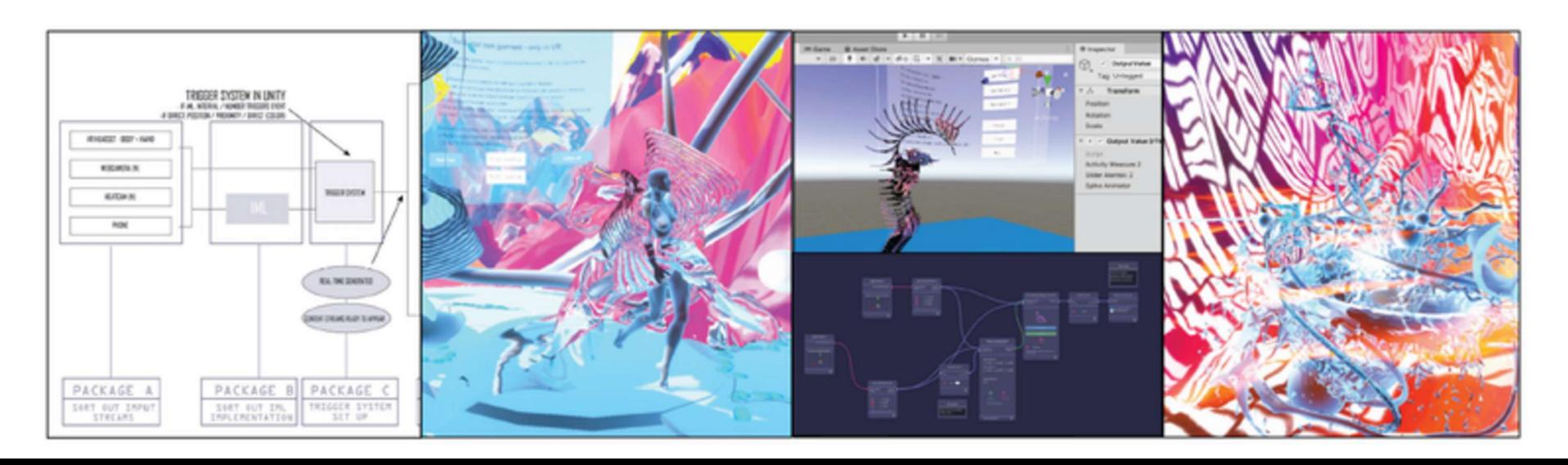
Beyond Vision: Designing a 'digital-self' through embodied creative interactions

TROY NACHTIGALL and LILI EVA BARTHA*, Amsterdam University of Applied Science, The Netherlands

LISETTE VONK, Amsterdam University of Applied Science, The Netherlands

DANIEL SOUTHWICK, Ryerson University, Canada

FRANK KRESIN, Amsterdam University of Applied Science, The Netherlands



KEY OBSERVATIONS

- User testing creative interactions in XR led to a surprising insight:
 - o Testers wanted tools that are immersive and intuitive, not just content
- Lecturing industry standard CAD, researching future software showed:
 - o Students struggled with existing 3D tools: CAD logic too rigid
- Current pipelines aren't built for future creators...
- Creative tools need rethinking:
 - What if creation was as intuitive as play?
- Design principles: accessible, intuitive, easy-to-use, enjoyable

How do we design tools that enable & empower, not overwhelm?

VIRTUAL WORLDS & VIRTUAL CLOTHING

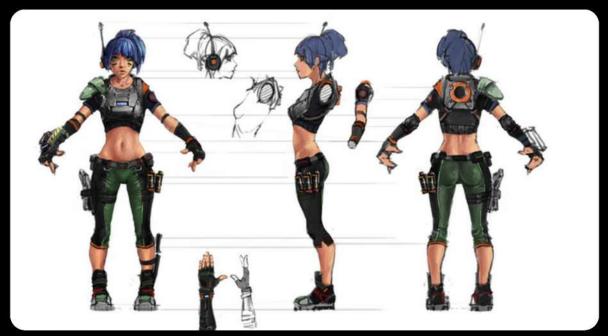
FASHION IN GAMES AND MMOS

INDUSTRY STANDARD AA/AAA GAME ASSET CONTENT PIPELINE

CONCEPT ART

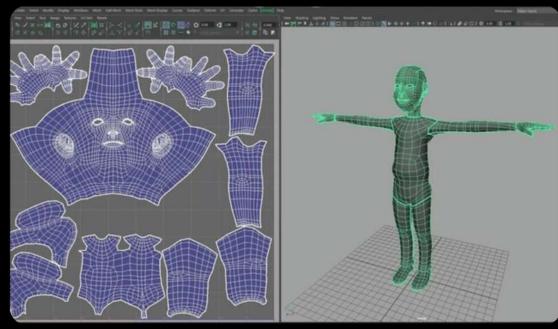
BLOCKOUT TO DETAILING

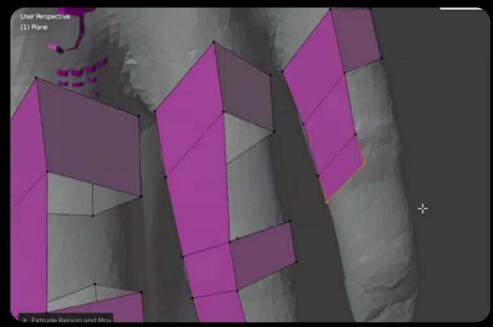
UV MAPPING



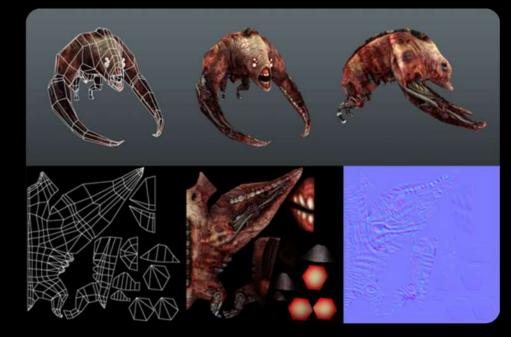












RETOPOLOGY

FLOW EXAMPLE

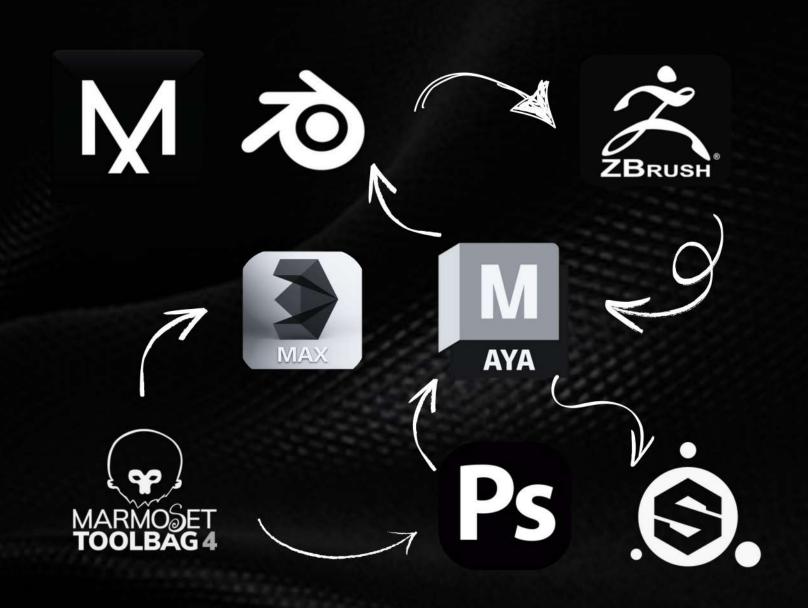
TEXTURING

CONCEPT ART MODELING TEXTURING RIGGING ANIMATION LIGHTING

TOOLS TOO COMPLEX, WORKFLOWS OUTDATED

- STEEP LEARNING CURVES
- COMPLICATED PIPELINES
- LICENSING COSTS ADD UP
- SLOWS DOWN ITERATION
- MARKETPLACE ASSETS CAN BE

UNRELIABLE



Outdated, industry-standard workflow for optimised 3D assets

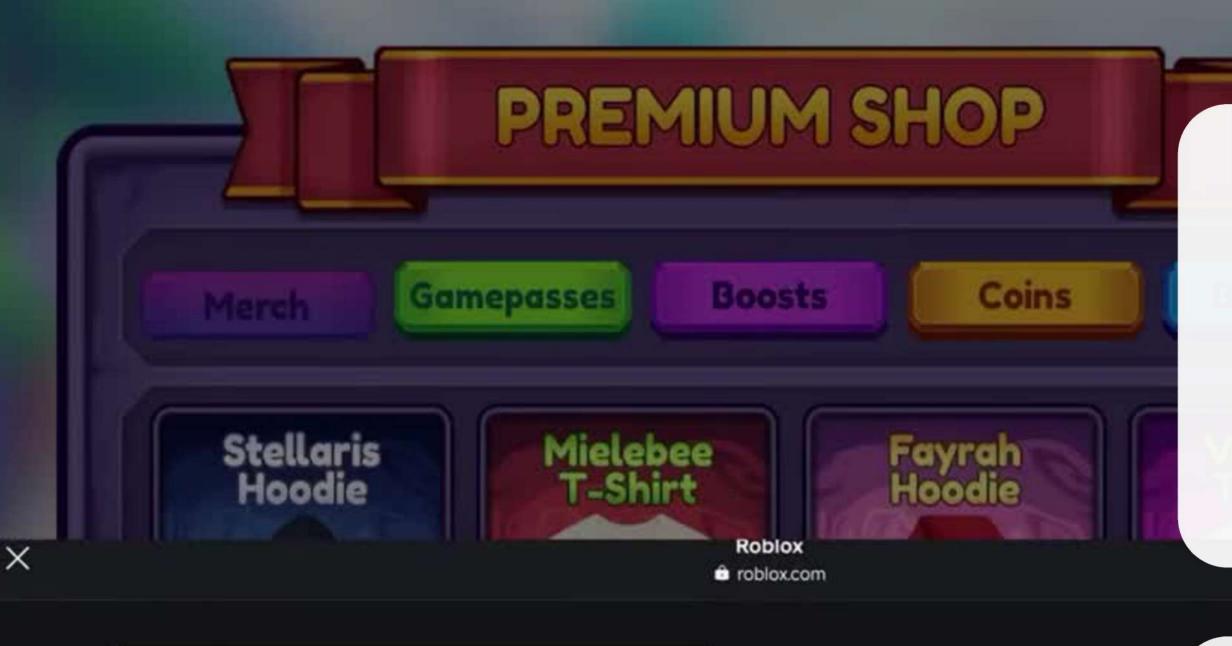




NOT JUST HYPE, BUT ACTUAL USER BEHAVIOR, ECONOMIC ACTIVITY, AND CULTURE.



GROW A GARDEN Grow a Garden was acquired from its original creator in Roblox, and then developed by Janzen Madsen from New Zealand and his team of 20 employees at Splitting Point **Studios** No brand behind it pure **UGC** success 9 billion visits since march 2025 Monetization via avatar items, Grow All experiences, upgrades CULTURAL RELEVANCE ISN'T ALWAYS BRAND-DRIVEN: THE CREATOR ECONOMY LEADS.



- Shopify integration allows ingame purchases of real-world goods
- In-game items can unlock physical rewards, and vice versa
- Digital storefronts for brands inside games
- Not just play: it's commerce infrastructure

A new model for omnichannel

retail, born in games.



Stellaris Hoodie

\$50.00

Sold by Twin Atlas Official Str

Color: Navy

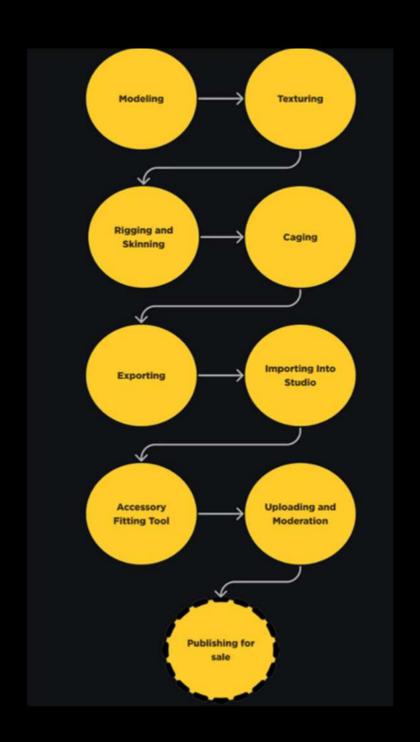
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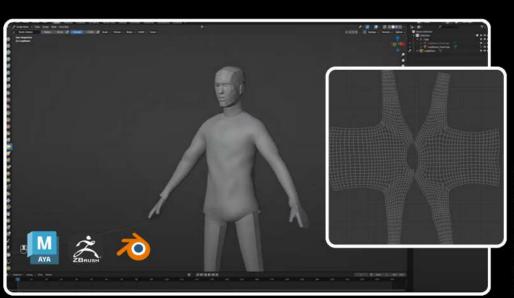
Twin Atlas reportedly generated six-figure revenue in weeks ~90% of orders were via ingame commerce, with many repeat customers.

3XL

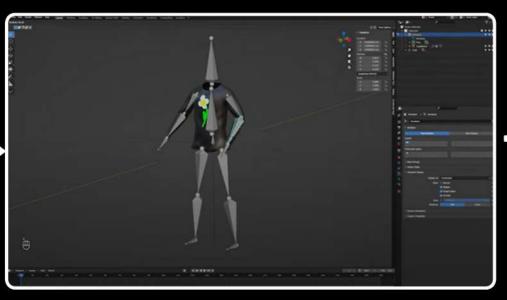
2XL

ROBLOX STUDIO STILL REQUIRES TECHNICAL FLUENCY





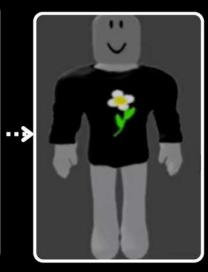
MODELING, UNWRAPPING







RIGGING



UPLOAD TO ROBLOX STUDIO

REFIT

THE NEW CREATOR: HYBRID, PLAYFUL, EMPOWERED

- The boundaries between players, builders, and designers are disappearing.
- Today's creators are:
 - o Thinkers: shaping digital identity and expression
 - o Players: creating inside the worlds they inhabit
 - Makers: using intuitive, real-time tools to build, test, and share
- Yet the tools they need remain complex, fragmented, and inaccessible.
- New creation tools must feel like play: yet deliver professional-grade output.

DEMOCRATIZING CREATION STARTS WITH REIMAGINING WHO THE CREATOR IS.



COAST UGC

HIGH-END

RTUAL STREETWEA

Forbes A Roblox Fashion Startup Now Sells Over A Million Items A Month

ON TOP OF TRENDS

TOPCAT IS ONE OF THE LARGEST SELLERS OF **USER-GENERATED** CONTENT (UGC) ON THE PLATFORM. IN JULY 2025 ALONE, THE THREE-PERSON TEAM SOLD **OVER A MILLION VIRTUAL CLOTHING ITEMS.**

THE BUSINESS HAS GROWN INTO A SEVEN-FIGURE ANNUAL ENTERPRISE, DRIVEN BY A CONSISTENT OUTPUT OF **NEW DESIGNS AND** TREND ANALYSIS.

NEW CREATORS ARE YOUNGER, SELF-TAUGHT

FROM PLAYING TO BUILDING

THE LOGIC OF BUILDING IS CHANGING

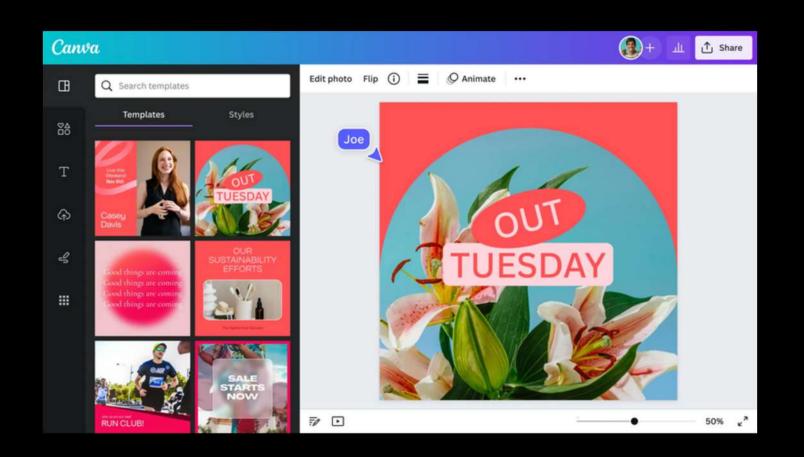
WHAT GOOD UX LOOKS LIKE NOW

WHAT ONCE TOOK STUDIOS, NOW TAKES ONE PERSON

- Fast onboarding
- Visual and instant feedback
- Playful interfaces fun, not fear
- A sense of agency from the first click

- Web-native workflows
- Asset libraries
- Modular templates
- Open learning





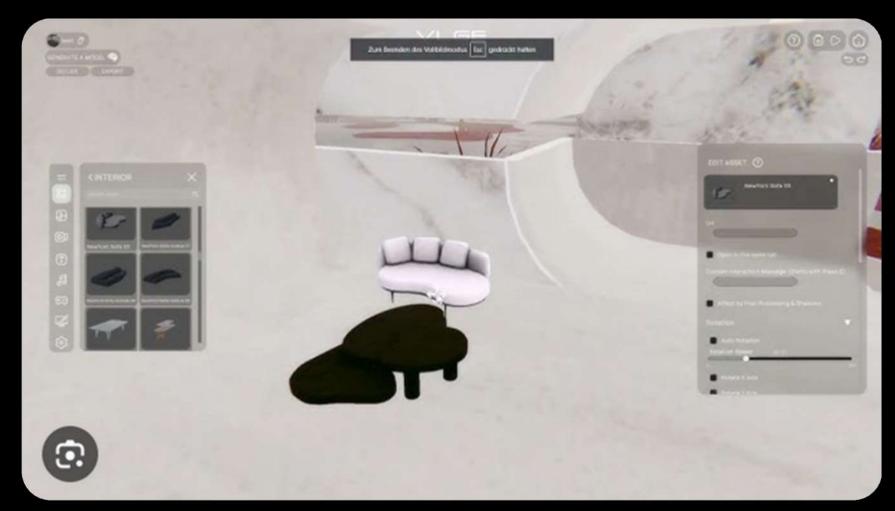
SPLINE DESIGN

CANVA

GAME-INSPIRED INTERFACES

CREATORS DON'T WANT CONTROL PANELS

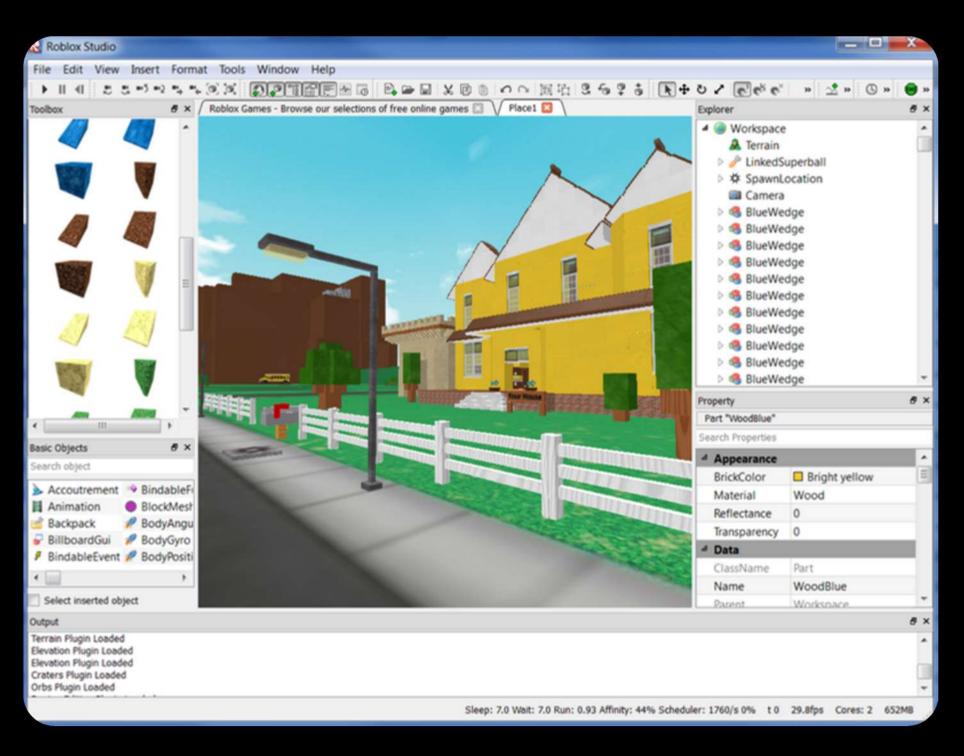




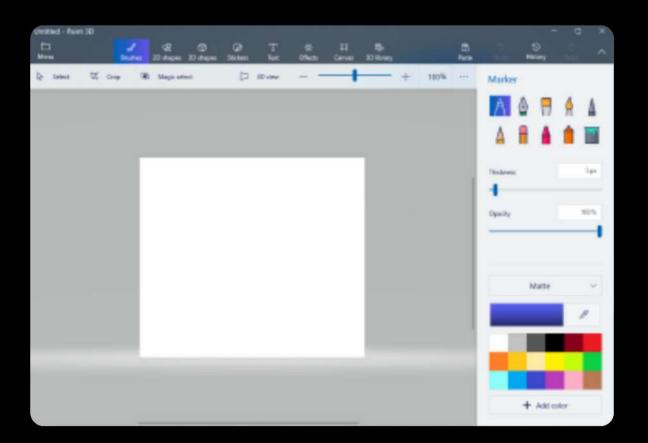
Games: teach through doing

Design patterns from games = instant familiarity

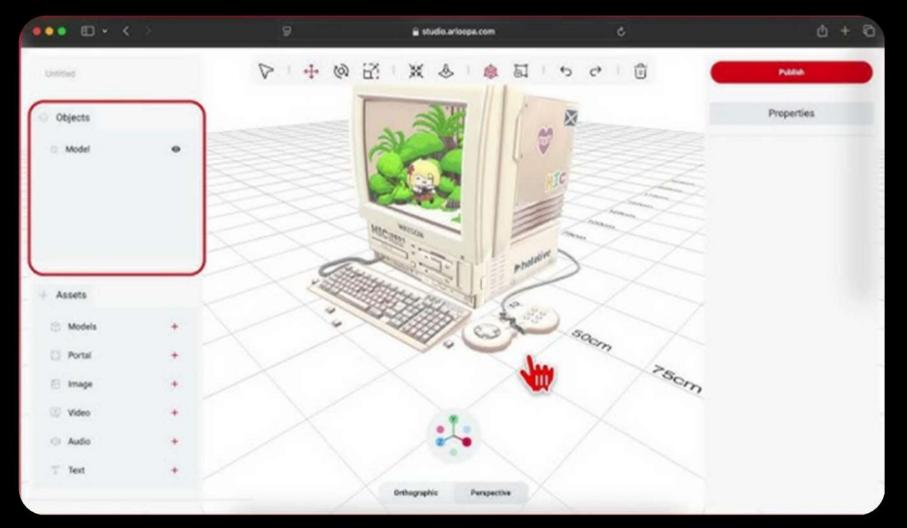
Limitless options, choice = an inclusive and diverse creation experience



ROBLOX STUDIO



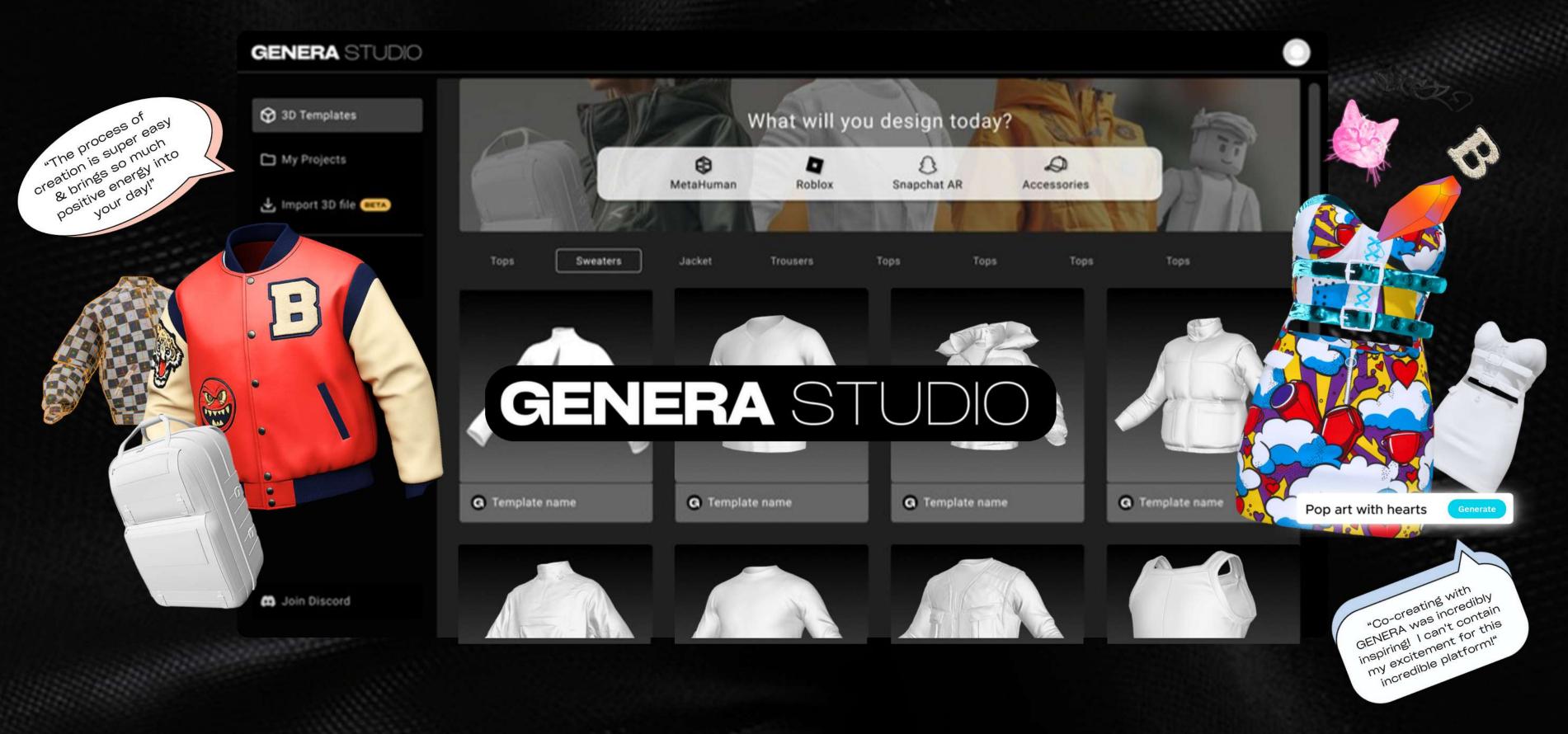
PAINT3D



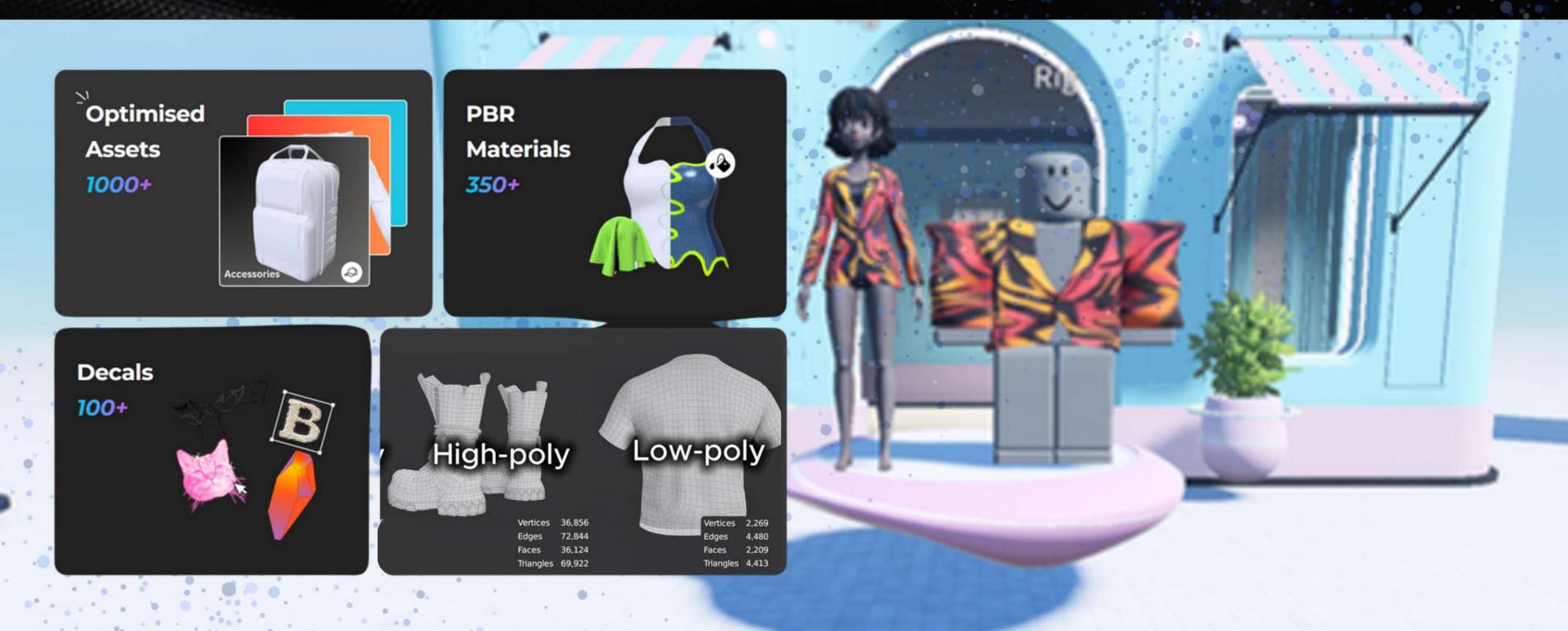
ARLOOPA AR STUDIO



CHARACTER CLOTHING IN MINUTES



CANVA FOR METAHUMANS (1) AND ROBLOX (2)

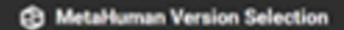






The latest version of Metal-luman Creator is only available as part of Unreal Engine. Please follow the link below to install Unreal Engine and start creating your MetaHumans.

Get Unreal



Version Unreal Engine 5.5 V



A You have selected a legacy version

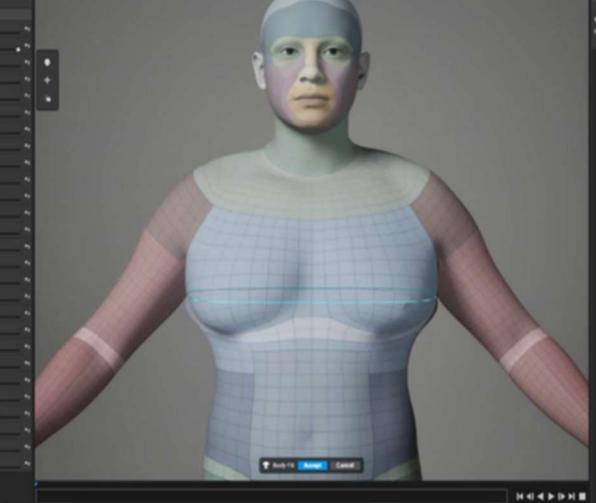
- . New features will not be available in this
- · Generates Metai-lumans compatible with the selected UE version.
- Metal-lumans created with this version will. need to be migrated to MetaHuman Creator in Unreal Engine in order to use them with newer versions of Unreal Engine.

Launch Metal-luman Creator

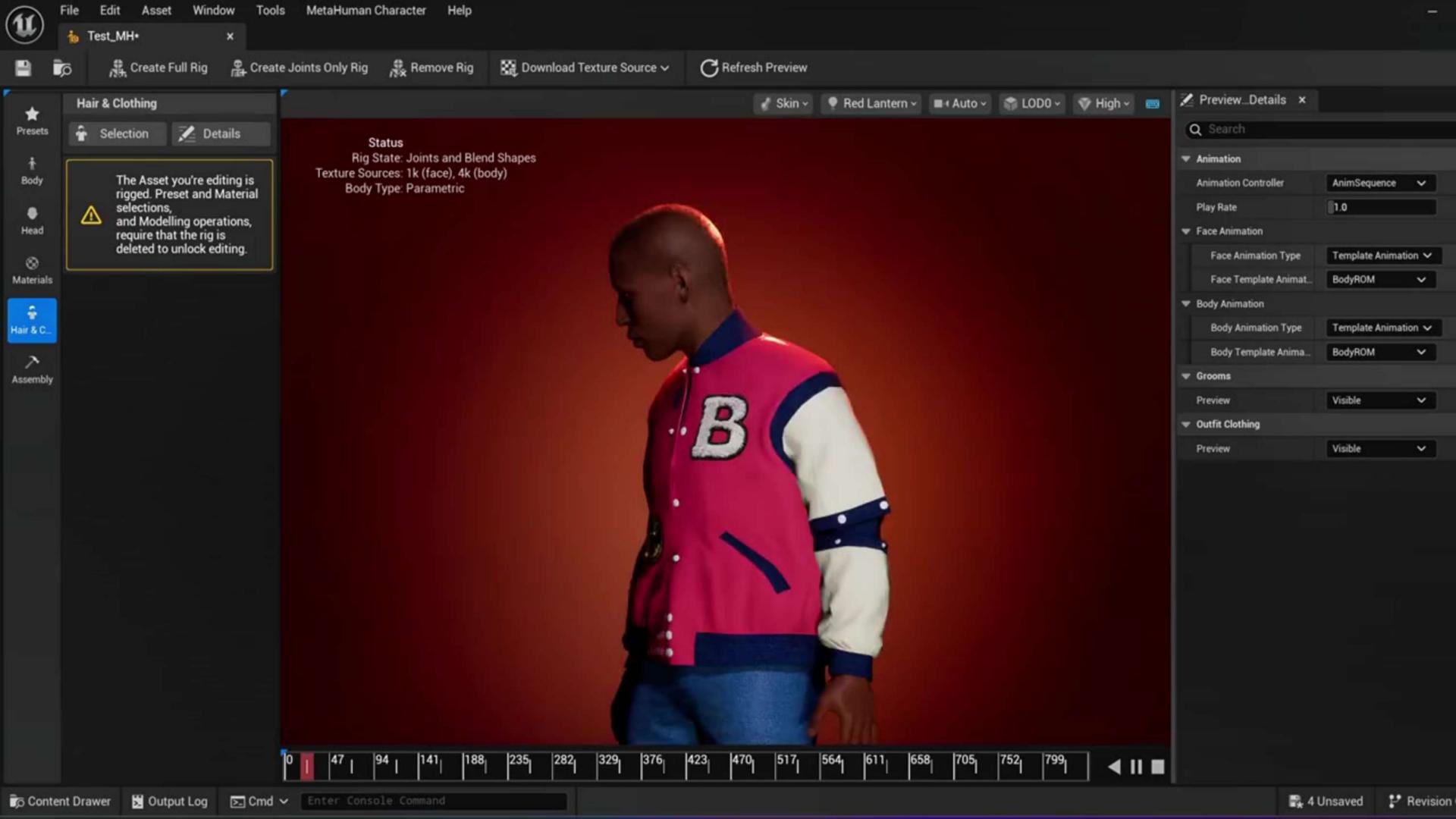








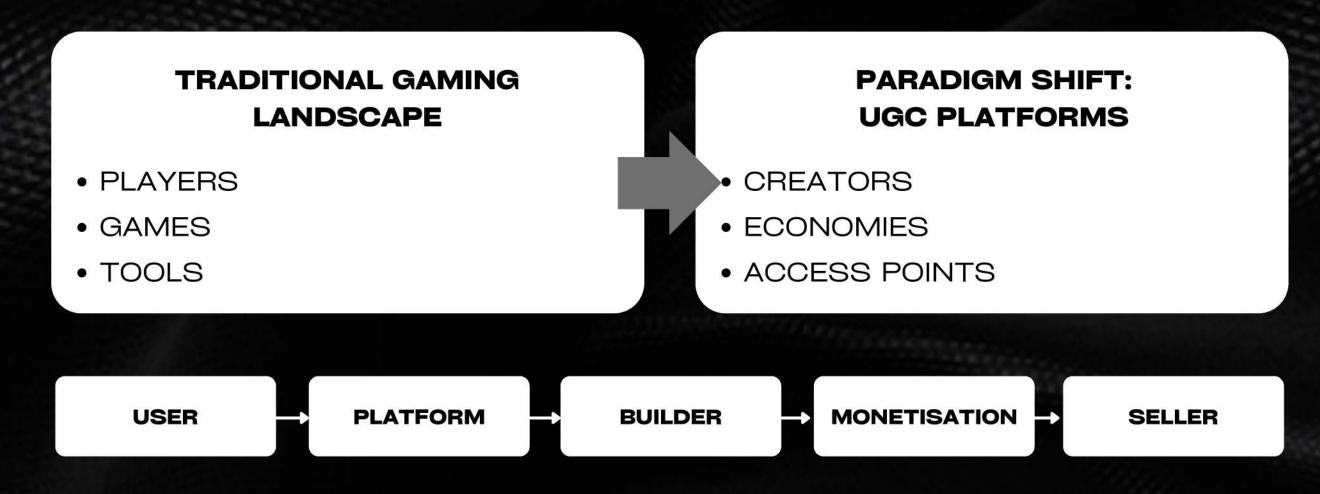






REDEFINING CRAFT, DESIGN & AUTHORSHIP

- Designers are builders of systems
- Users are becoming performers, distributors, co-authors
- Cultural production is no longer linear or hierarchical
- Building the right tools = shaping who gets to participate.



PLATFORMS OFFER BUILT-IN DISTRIBUTION + MONETIZATION

WHAT KIND OF FUTURE ARE WE BUILDING?

- THE CHALLENGE IS NOT JUST BUILDING FOR VIRTUAL WORLDS, IT'S DESIGNING AGENCY, INCLUSION, AND INFRASTRUCTURE
- TOOLS ARE THE NEW CULTURAL INSTITUTIONS
- LET'S BUILD SYSTEMS THAT EMPOWER MODULAR, CO-AUTHORED FUTURES
- WHAT HAPPENS WHEN EVERY USER BECOMES A CREATOR?"



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As seen in...













