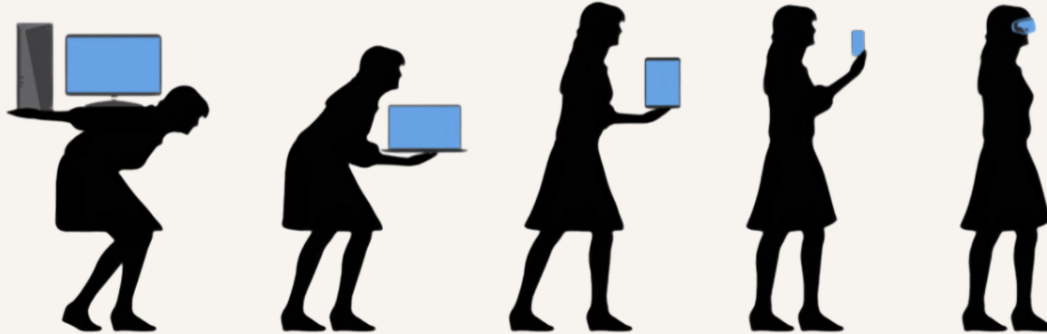


ALL3D ×



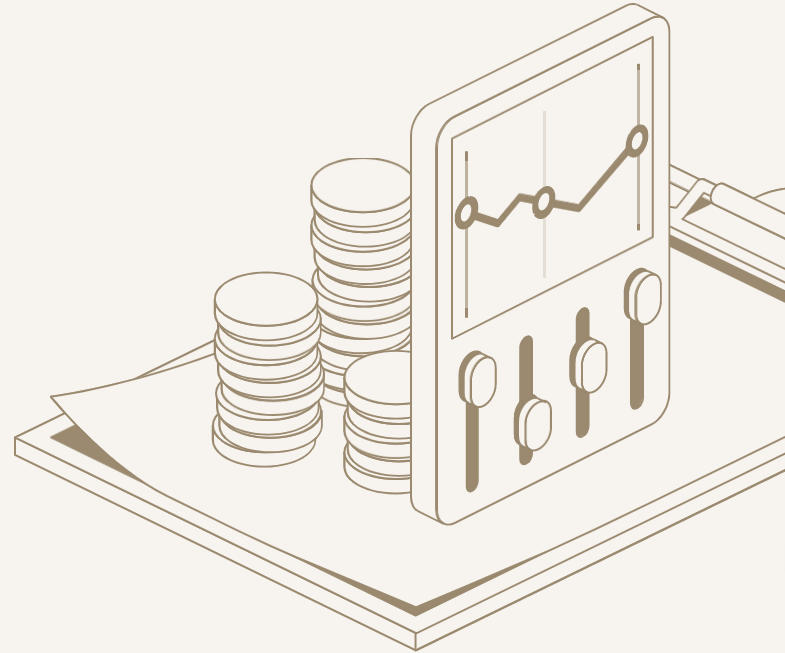
## AHFA Conference and CEO Meeting



A 3D & AI Visualization Company For Wholesalers and Retailers

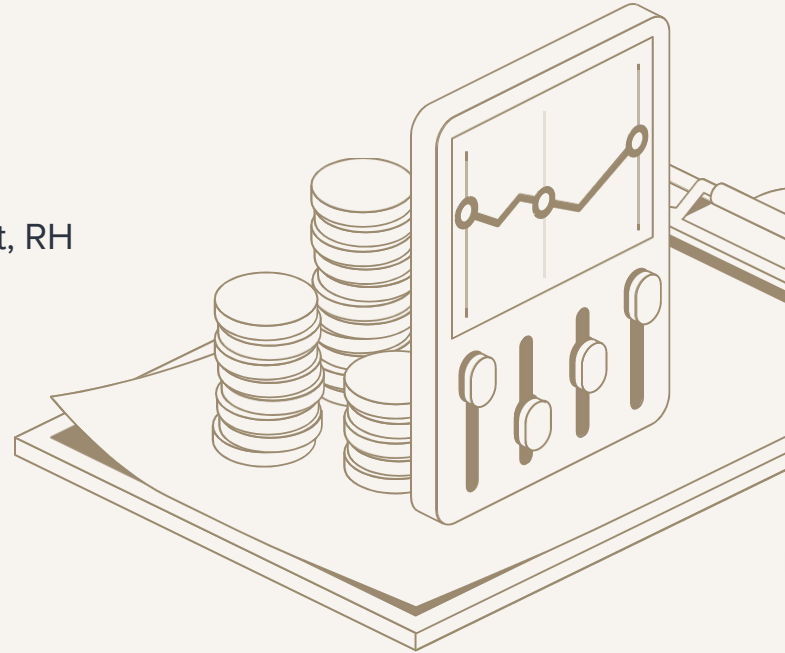
## Agenda

- What is AI3D?
- What are the Use Cases For AI3D?
- Evolution from 2D to 3D Ecommerce
- What are the problems and challenges with 3D?
- What is Generative AI?
- AI Disruption in the Home Furnishing Industry
- AI and ALL3D



## COMPANY OVERVIEW

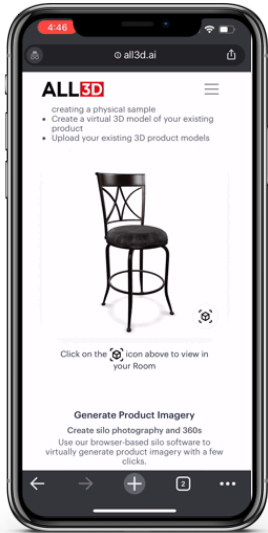
- San Francisco-based 3D software and AI company
- \$16 billion+ market opportunity
- Marquee brand customers; including Walmart, Home Depot, RH
- In-progress API Integration with Amazon
- In tests with Wayfair



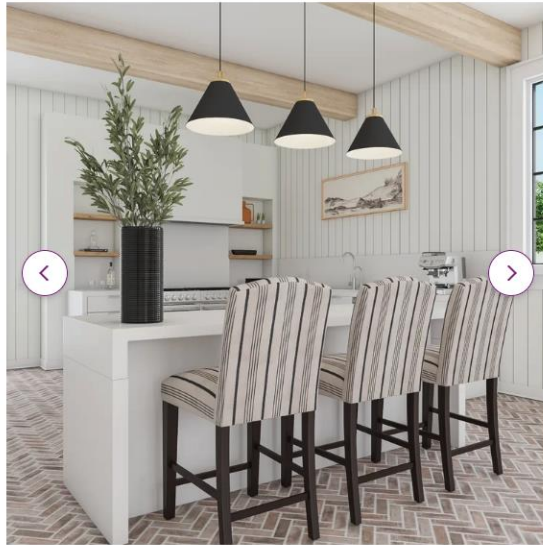
# ALL3D USE CASES

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# PRODUCT WEB PAGES



+ AUGMENTED REALITY



## Aeja 26" Counter Stool

See More by [Red Barrel Studio®](#)

★★★★☆ 4.0 [3 Reviews](#)

**\$349.99**

\$40 OFF your qualifying first order of \$250+<sup>1</sup> [with a Wayfair credit card](#)

Free shipping

Get it in **2-3 weeks** to [New York - 10003](#) ▾

Can't Decide? [Order Free Samples](#)



**Add to Cart**

### What We Offer

 **Professional Assembly for \$84.99**  
[How It Works](#)

 **3 Year Protection Plan for \$36.99**  
[What's Covered](#)

 **Quick-Ship Samples**  
Order a sample to see and feel the product before buying.



# RH

## Cloud Modular Sofa

### CONFIGURATION OF PRODUCTS

Preconfigured

Components



#### Colors



#### Dimensions

hidden inches centimeters

[RH Real-time Configurator:](#)

[Static Image Configurator](#)



SYNTHETIC IMAGE

3D TOURS



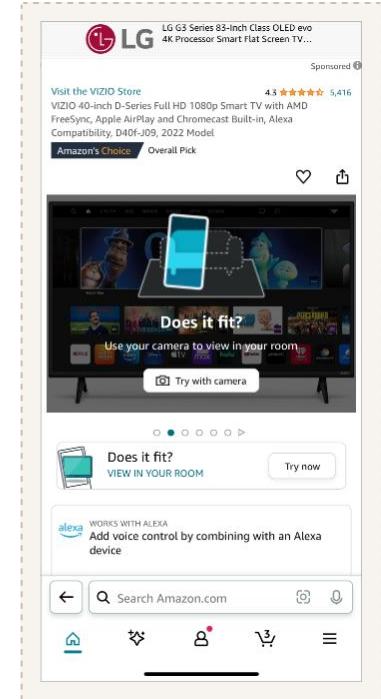


# EVOLUTION FROM 2D TO 3D

## ECOMMERCE

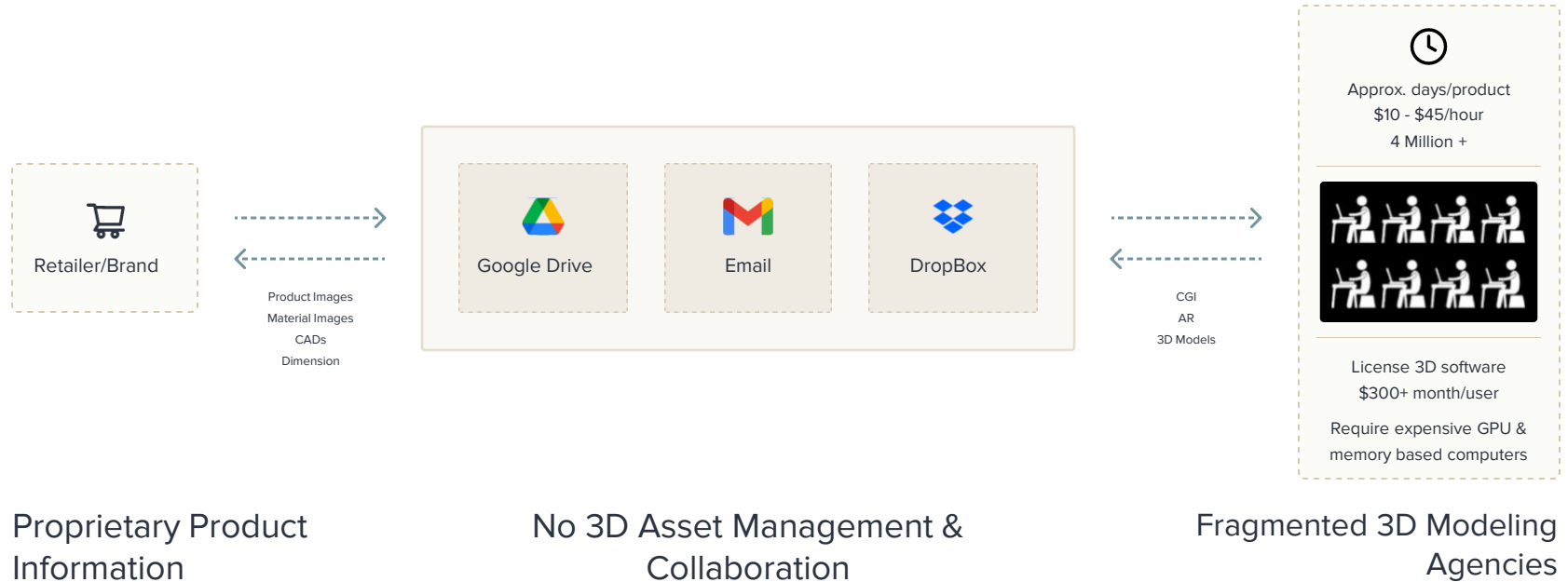
Every sellable product on the web needs a 3D model

- 200 billion product images on Amazon.com
- 1 billion new product images are uploaded on Shopify every year



# PROBLEMS WITH 3D

Currently, 3D is too difficult, manual, expensive, and unscalable



# ALL3D BROWSER & CLOUD BASED PLATFORM

## UPLOAD

- Information for 3D model creation
- Ingesting existing 3D assets

## WEB-BASED TOOLS

- Product CGI
- 360s, 3D Tours
- Configuration and SKUs
- Augmented Reality

## 3D DAM



Collaboration



Sharing



Reusability

Distribution

Archiving & Storage

## CLOUD AUTOMATION

VRay Rendering

Model Conversion

Mesh & Texture Optimization

Automated QA

Image Processing

## 3D MODEL CREATION

On-Demand Job Desk

Vetted 3D Artists & Agencies

Admin QA, coaches and testers



Approx. hours

# What is Generative AI

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Generative AI is a type of artificial intelligence that creates new content from large amount of data. Generative AI models synthesize entirely new data that resembles human-created content

- Text,
- Images,
- Animation,
- Sounds,
- 3D models and more

How it works:

Neural Networks identify patterns in existing data and use them to fuse together fresh and unique content



# What are the AI Tools you've heard about?

## Here are a few of the common ones:

- Open AI - Chat GPT
- Open AI - Dall-E2, text to images
- Google LaMDA and BARD chatbot
- Stability AI- Stable Diffusion - image to image
- Midjourney Inc.- Midjourney text to image
- Artists

### Stable Diffusion

- Image-to-image generation
- Creating graphics, artwork, and logos
- Image editing and retouching
- Video creation
- Inpainting
- Outpainting

### DALL-E-2

- Create photorealistic images
- Produce images with specific artistic styles
- Produce variation the same salient features
- Modify existing images



### GPT

#### Large language model (LLM)

- Gived AI apps the ability to generate text
- One of the largest neural networks, with hundreds of billions of parameters

VS



### ChatGPT

#### Chatbot app powered by GPT

- Relies on a set of GPT's parameters
- Optimized for dialogue
- Has content filters

# AI Disruption in the Home Furnishing Industry

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## AI disruption

- Changing product design from an art to data & science
- Marketing from mass to personalizing on each individual preferences
- Interior design - leveraging million of home designs photos to create personalized designs for consumers based on preference and styles in a few minutes

## Benefits of AI

- Efficiency: automating repetitive tasks and iterations
- Cost Savings
- Improved Customer Satisfaction: low return rates
- Personalization
- User Experience Enhancement to iterate and refine your products for more user centric

**Enhancing creativity  
and design**

When it comes to architecture or product design, generative AI can produce multiple design variations in minutes according to project needs. This means designers can quickly iterate and refine ideas, cutting down the time traditionally required in the design phase.

# AI & ALL3D

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## AI

- Today tens of 1,000 3D models created via ALL3D are being used as training dataset
- Start collecting & organizing dataset into easy to use data pipelines to enable future AI training
- Create simple assets that can be the starting point for artists to build on

## Technologies

- Neural Radiance Fields (NeRF) transform 2D images into 3D scenes.
- 2D Diffusion models (e.g. Dall-e, Stable Diffusion) transform text into 2D images.
- unCLIP models allow for text and image based editing of a 2D image.
- 3D Diffusion models (e.g. Point-e, DreamFusion) transform text into 3D models.
- **Missing piece:** text and image based editing of 3D models.



THANK YOU!

**ALL** **3D**

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[www.all3d.ai](http://www.all3d.ai)