



# Hardie Tankersley

### VP Visualization Solutions – Silverdraft

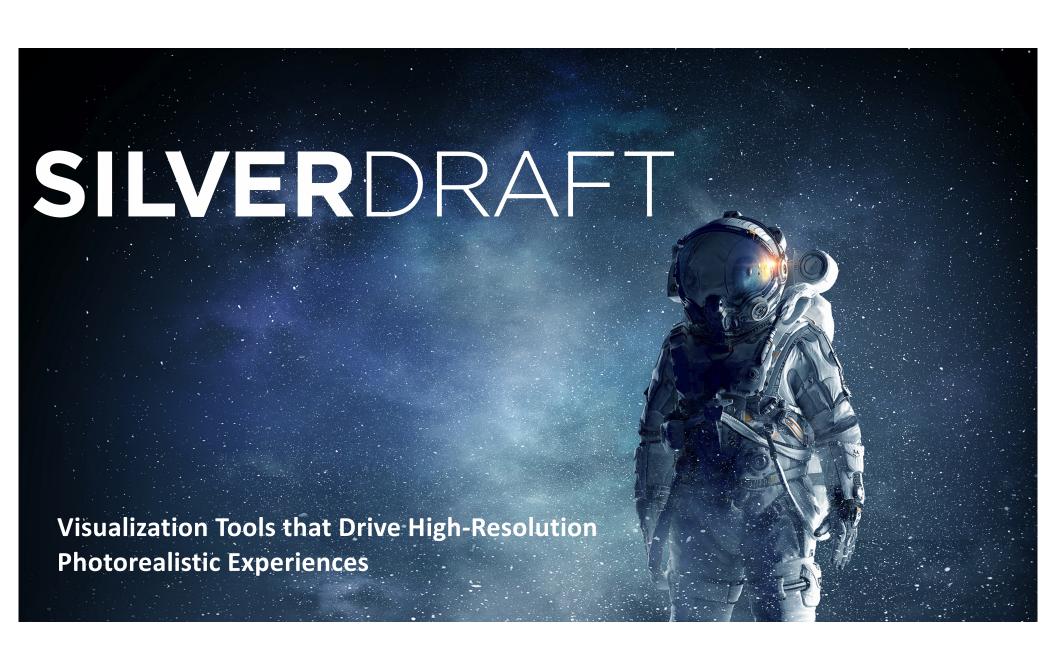
Hardie is a veteran builder of products at the intersection of entertainment and technology. Hardie has held previous roles as the Senior Vice President of Innovation at Fox and delivered new products around streaming and connectivity. He is currently on the forefront of developing high-quality immersive visualization solutions for design, marketing, and storytelling.



## **Erik Weaver**

## Entertainment Technology Center @ USC

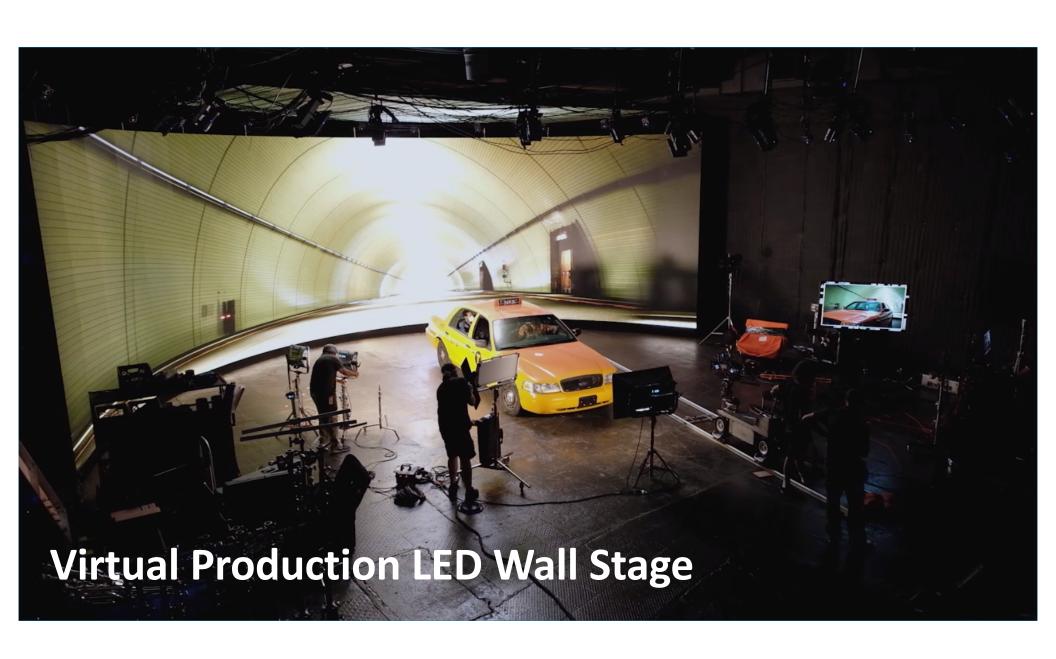
Erik Weaver is a specialist focused on the intersection of cloud and the M&E industry, and is currently running special projects for the Entertainment Technology Center @ the University of Southern California (ETC). Recently, he led Global M&E Strategy for Western Digital. Prior work at ETC includes spearheading the *Production in the Cloud* project, which encompassed many aspects of the cloud, including transport, security, metadata, long-term storage, and the creation of an agnostic framework that unites key vendors and studios. Mr. Weaver recently finished "Ripple Effect" a short leveraging Unreal engine and Larger LED volumes for production.











# Benefits

## **CREATIVITY**

Cast and crew can actually see what the audience will see

## **LIGHTING**

LED wall casts the correct light on the set and the performers eliminating the need to fix the green glow in post production and generating a more natural look.

## FINAL PIXEL

WSYWIG applied to filmmaking. You see what you are getting. Fewer fixes in post.



# **Virtual Production - Considerations**

#### **NEW PROCESS AND WORKFLOW**

Production process gets flipped. VFX comes first, physical production after. Requires team to learn new flow.

#### **TIMELINE**

Prep time takes longer. But physical production should be faster.

#### **CREATIVE CONSTRAINTS**

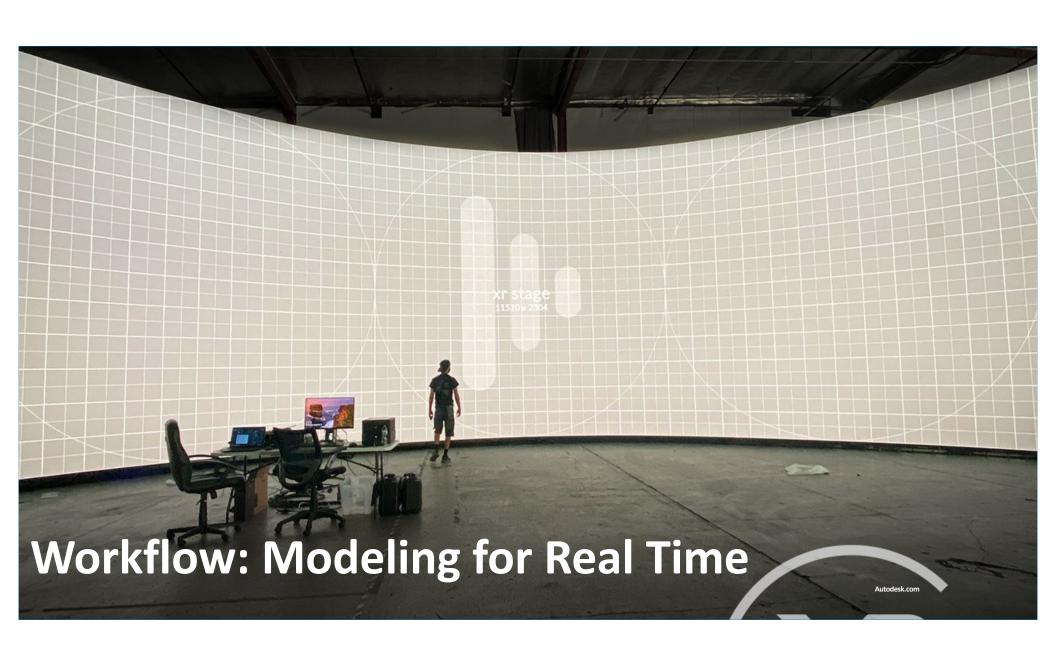
Physical constraints of stage size and LED density may limit camera placement, focal range, and depthof-field

#### **COMPUTE PERFORMANCE**

Latency between motion capture and wall display may limit camera movement

#### **PHYSICAL - DIGITAL**

Matching color between LED characteristics, virtual elements (like lights), and physical elements can be challenging



# **Cinematic Twin**

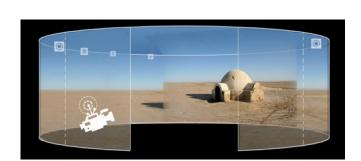
Art Department

Modeling

Location Capture

Sets & Props Capture





Cinematic Twin

**Physical Production** 

Safety

Creative

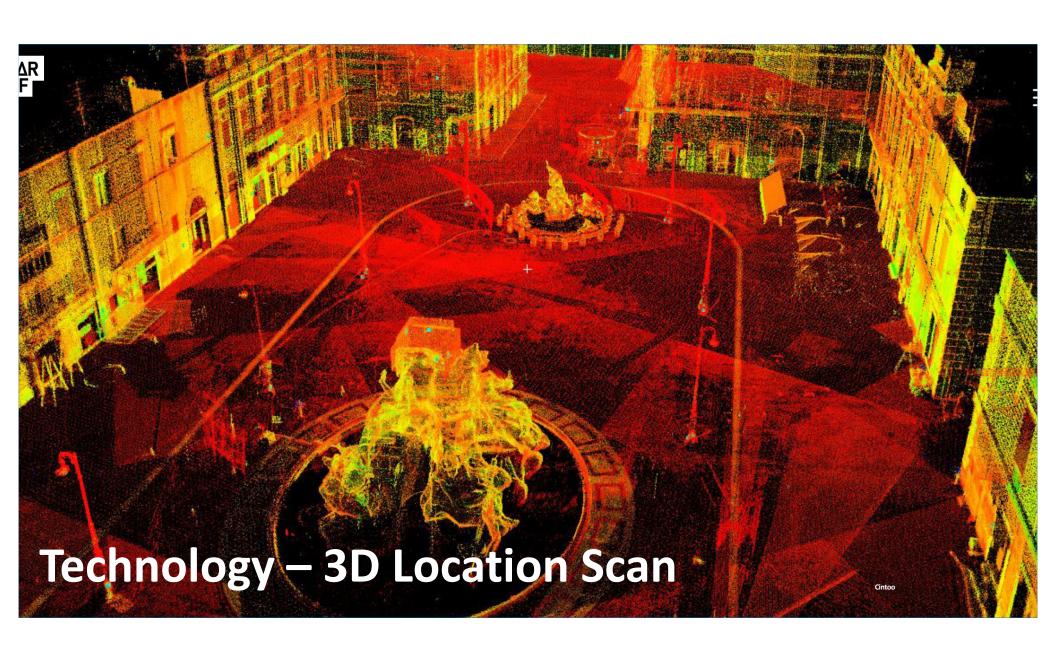


"Whether it's innovating based on new production techniques we're developing or innovating based on technology associated with new platforms of distribution, there is a way for filmmaking and technology to continue the dance that they've been in for 100 years that's created breakthroughs for both."

John Favreau







# **Case Study: The Lion King**

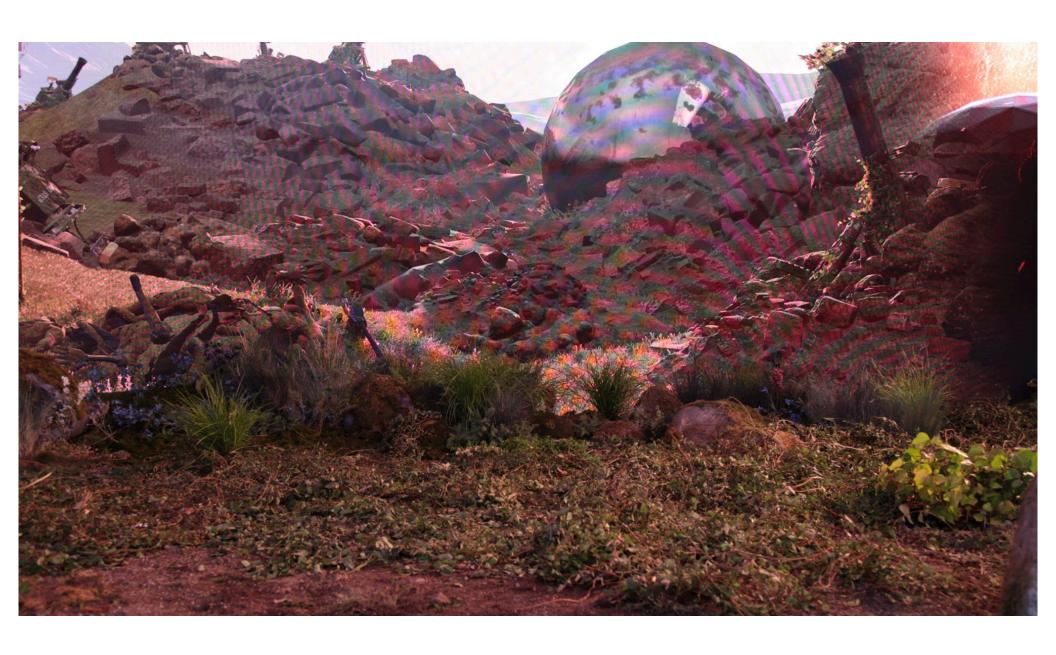




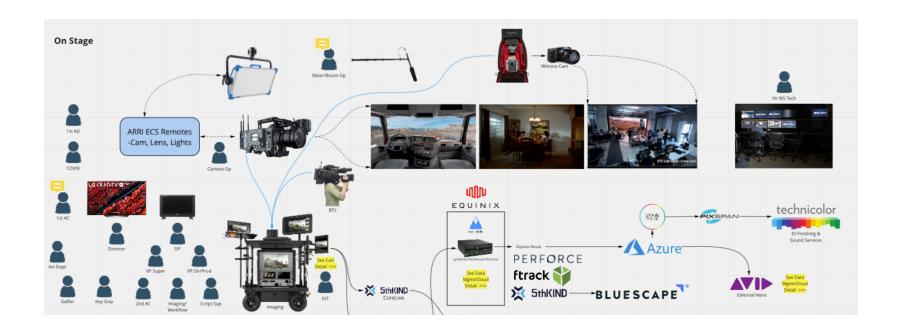








# Dynamic Workflow



# Remote Participation & Cloud Workflows

#### LIVE FEEDS FROM SHOOTING STAGE

Remote crew can monitor shooting and stage activities live.

#### **CLOUD-BASED ASSET LIBRARIES**

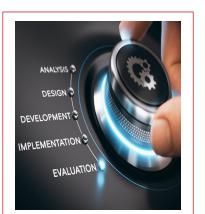
Full production data is available everywhere to everyone. Shared real-time access enables quick review and decision-making.

#### **CLOUD EDITING AND POST PRODUCTION**

Large data and images are quickly available to the whole team wherever they are.



**R&D Services** 



Hardware



**Software** 



**Visual Displays** 



**Complete End-to-End Workflow Solutions** 



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