MOVIELABS
Supporting Cloud Workflows
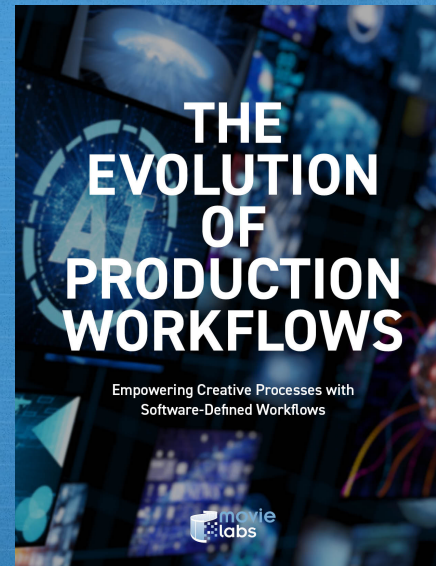*Groundwork for Improved Communication & Security*

InterSDO, October 2021

Jim Helman

MovieLabs

STUDIO TECHNOLOGY JOINT VENTURE

THE EVOLUTION OF MEDIA CREATION

A 10-Year Vision for the Future of Media Production, Post and Creative Technologies

THE EVOLUTION OF PRODUCTION SECURITY

Securing the 10-Year Vision for the Future of Media Production, Post and Creative Technologies

THE EVOLUTION OF PRODUCTION WORKFLOWS

Empowering Creative Processes with Software-Defined Workflows

Paper series advancing:

- A software and cloud vision for the future of production
- A new security architecture
- Automation through software-defined workflows

Now making it happen

MOVIELABS VISUAL LANGUAGE

VISUAL COMMUNICATION

A visual language is a system of communication using visual elements.

CONSISTENT COMMUNICATION

MovieLabs having a visual language will allow it to communicate concepts of the 2030 vision in a consistent manner.
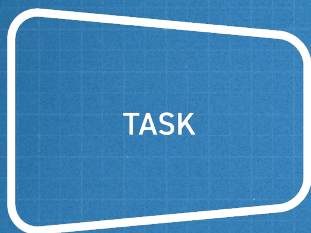
OPEN TOOLSET FOR THE INDUSTRY

The industry having an open toolset based on the language will allow it to build common presentations, documentation, dashboards, and apps.
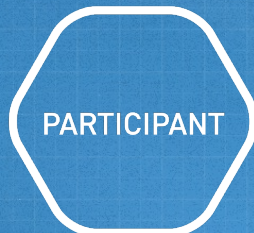
Published v1.0 September 2021: https://movielabs.com/visual-language-specifications-resources/
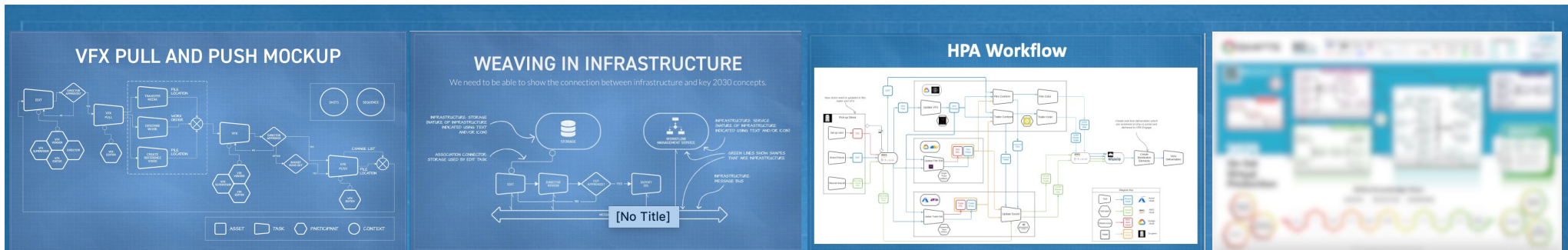
ONTOLOGY FOR MEDIA CREATION v1.0

Published v1.0 September 2021: https://movielabs.com/ontology-for-media-creation/

TASK	PARTICIPANT	ASSET	CONTEXT	RELATIONSHIP
Write Script	**WHAT THEY ARE:**	**WHAT THEY ARE:**	**NARRATIVE:**	**Produced By** *asset to task*
Previsualize	Person	Image, Video, Audio,	Scene, Location,	
Create Set	Organization	Data, Physical Thing	Character, Prop	**Performed By** *task to participant*
Shoot	Service	**WHAT THEY DO:**	**PRODUCTION:**	
Create Editorial Dailies	**WHAT THEY DO:**	EDL, Dailies,	Scene, Location, Prop	**Portrayed By** *character to participant*
Create VFX	Director, Actor	Concept Art, CG texture	Depiction	
	Art Department	Storyboard, Prop	Slate, Shot	**Depicted By** *prop to asset*

CONSISTENT & RELIABLE COMMUNICATIONS, GROUNDED IN COMMON LANGUAGE

HUMAN + VISUAL + MACHINE

Common Security Architecture for Production

Published CSAP Parts 1-3 January 2021: https://movielabs.com/production-security-specification-resources/

Workflow management controls security authorizations

Components specific to production

Existing cloud provider services

WORKFLOW MANAGEMENT
- SOFTWARE DEFINED WORKFLOW
- ASSET MANAGEMENT

CORE SECURITY COMPONENTS
- AUTHORIZATION SERVICE
  - WHO
  - WHAT
  - WHEN
- AUTHENTICATION SERVICE
  - USERS
  - DEVICES
  - APPLICATIONS
- ASSET PROTECTION SERVICE
  - KEY MANAGEMENT
  - ACCESS MANAGEMENT
- POLICY SERVICE
  - POLICY MANAGER
  - POLICY ENGINE

SUPPORTING SECURITY COMPONENTS
- INDENTITY MANAGEMENT
- TRUST INFERENCE
- CONTINUOUS TRUST VALIDATION
- CERTIFICATE SERVICE
- CONTINUOUS MONITORING & SECURITY OPS
- THREAT ANALYSIS & INTELLIGENCE

POLICY ENFORCEMENT POINTS

ASSET ENCRYPTION KEYS, ACL UPDATES,...

PEP

DYNAMIC SECURITY POLICIES

Policy Enforcement Points are where CSAP acts on the workflow components