

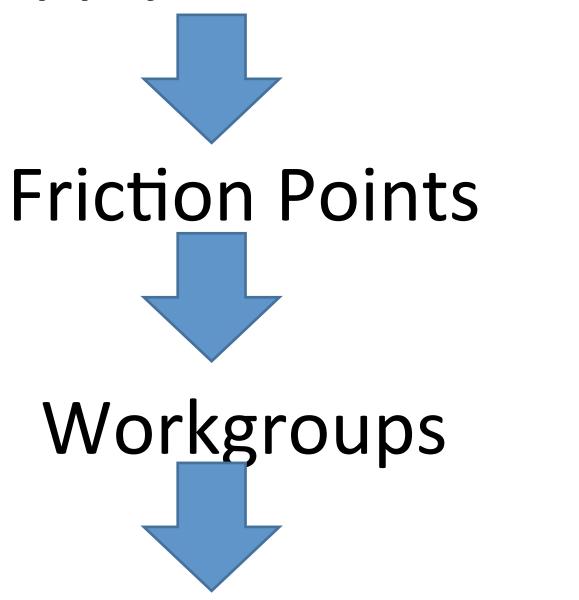
# EMA Digital Supply Chain Initiatives

Sean Bersell/EMA



## Digital Supply Chain Initiatives

Digital Supply Chain Committee



Standards, Specifications, Best Practices

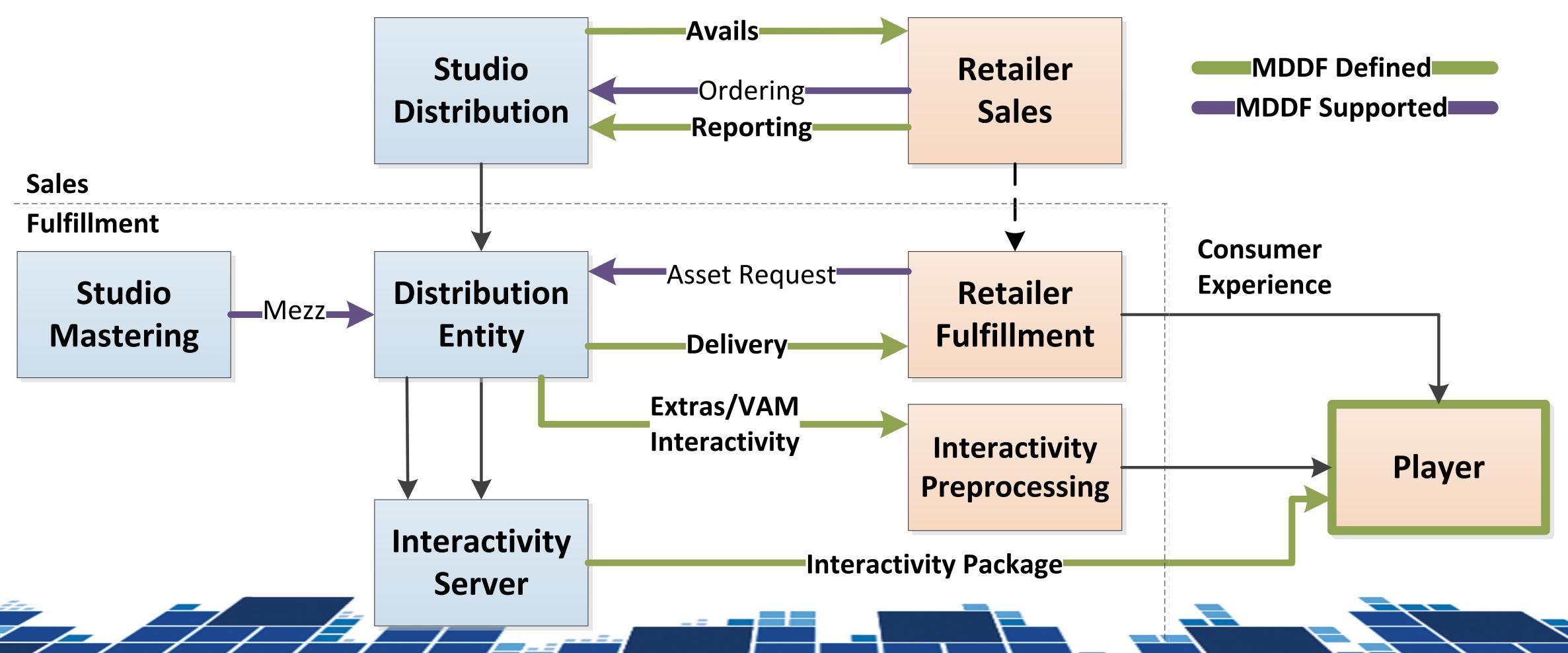


## Digital Supply Chain Initiatives

- Metadata
- Content Availability Metadata ("Avails")
- Entertainment Identifier Registry (EIDR)
- Media Manifest Specifications
- Mezzanine File Specifications
- Ratings
- Transactional Reporting
- Quality Control Nomenclature Standardization
- Closed Captioning Best Practices
- Image File Specifications and Best Practices



### Data Distribution Framework





# EMA Avails & Ratings

Jason Peña/Google Play



- Avails Workgroup Update
- Ratings Workgroup Update

### **Avails Workgroup Update**

#### **Mission**

• Standardize the communication of avails from content providers to digital retailers, and thus eliminate inconsistency and inaccuracy in avails information.

#### **Accomplishments**

- Released EMA Avails 1.7 (Excel) and 2.2 (XML) (<a href="http://www.movielabs.com/md/avails/">http://www.movielabs.com/md/avails/</a>)
  - New fields/terms, deprecated fields/terms, label changes, newly required, best practices, new support for Avails XML
  - Support for bundles, entitlements IDs, emerging technologies...and more
- Released 1.7 Validator (<a href="http://www.movielabs.com/md/avails/validator/">http://www.movielabs.com/md/avails/validator/</a>)
- Released Java library to translate between Excel and XML (<a href="https://github.com/MovieLabs/availslib">https://github.com/MovieLabs/availslib</a>)

#### Goals for 2017

- Define EMA Avails 1.6 to 1.7 translator
- Define Adoption Roadmap

#### **Next Steps**

Joint Working Group scheduled for May 8<sup>th</sup> in NYC @ HBO

### Ratings Workgroup Update

#### Mission

- Identify the rating system and values for each territory
- Define best practices for territories with no formal rating system
- Investigate the feasibility of establishing a common repository for ratings by title in each territory

### **Accomplishments**

Released Ratings 2.3 (<a href="http://www.movielabs.com/md/ratings/v2.3/html/Summary.html">http://www.movielabs.com/md/ratings/v2.3/html/Summary.html</a>)

#### Goals for 2017

- Establish process for reviewing the ratings systems and values on a quarterly basis
- Identify best practices for handling territories with no rating system or multiple viable systems
- Establish a framework for content owners to obtain ratings, potentially through 3rd party

### **Next Steps**

Next Meeting Tuesday, January 17



## Metadata and Media Manifest

Craig Seidel/MovieLabs



# Spec Updates

- Features, improvements and fixes, such as:
  - VR/AR/MR/360 video, audio
  - Improved app and image descriptions
  - Supply and Interactivity-driven improvements
- Periodic update (every 12-18 months)

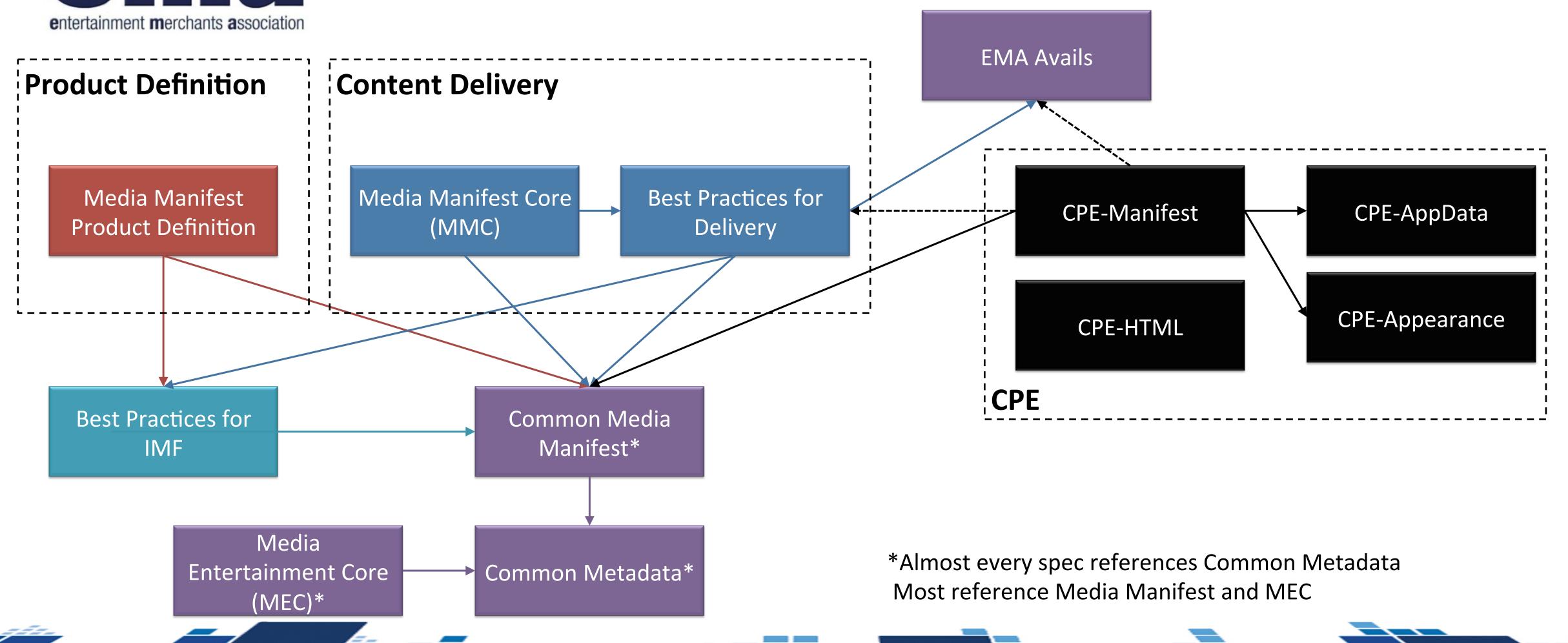


# Specs Published

- Core Specs
  - Common Metadata V2.5
  - Media Manifest V1.6
- Metadata
  - Media Entertainment Core (MEC) V2.5
  - Ratings V2.3
- Delivery
  - Media Manifest Core (MMC) based on MM 1.6
- Interactivity
  - Cross-Platform Extras (CPE) Manifest based on MM 1.6
  - CPE Application Data, v1.0
  - CPE Style, v1.0



# Specs Relationships





### Common Metadata & MEC v2.5

- Backwards compatible!
- VR/AR/MR (VARM) and 360 video and audio (e.g., Ambisonics)
- Better Application description (e.g., required accessories)
- Better image description (e.g., purpose)
- Video capture (e.g., animation)
- Better alternate/commentary track description
- Data to support supply chains
- Clarifications and corrections



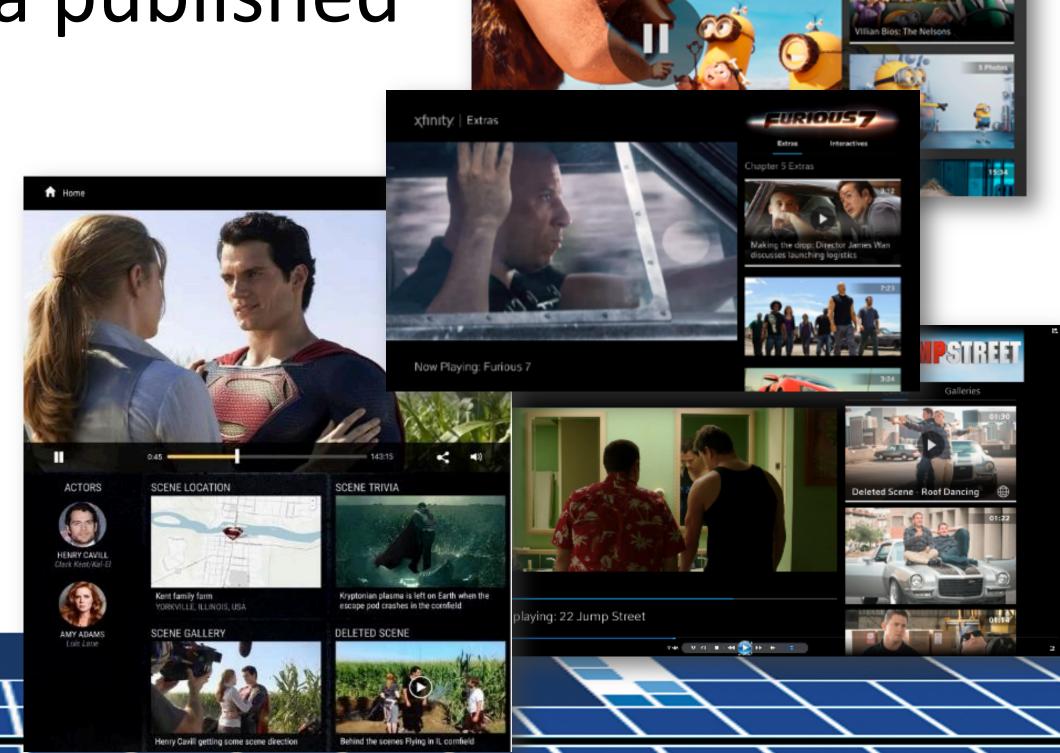
### Media Manifest v1.6

- Backwards compatible!
- Media Manifest
  - Incorporates Common Metadata 2.5 changes
  - Additional support for VARM/360 video/audio
  - Better support for: preorder, image delivery, text objects
  - And more...
- MMC (delivery) and CPE-Manifest inherit Media Manifest improvements
  - Same schema
  - Includes Validator



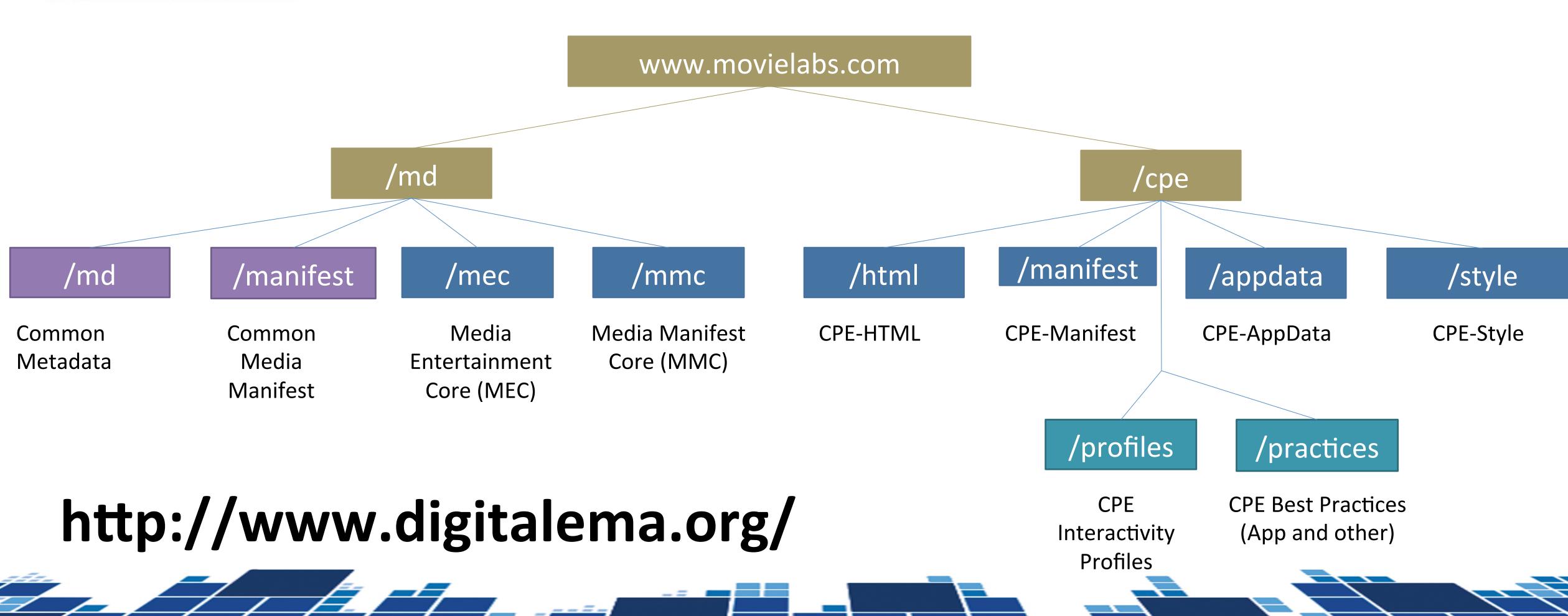
# Cross-Platform Extras

- CPE Manifest takes advantage of CM 2.5 and MM 1.6
- Validator tool and library provided
- CPE Style and CPE Application Data published
- Check out
  - Comcast Enhanced Extras
  - Suicide Squad on Vudu app
  - WB Movies All Access app





## Where to find...





## EIDR

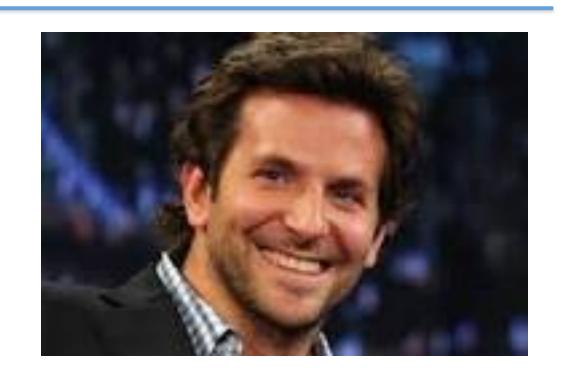
Kip Welch/MovieLabs



## EDR Update – Digital EMA Forum

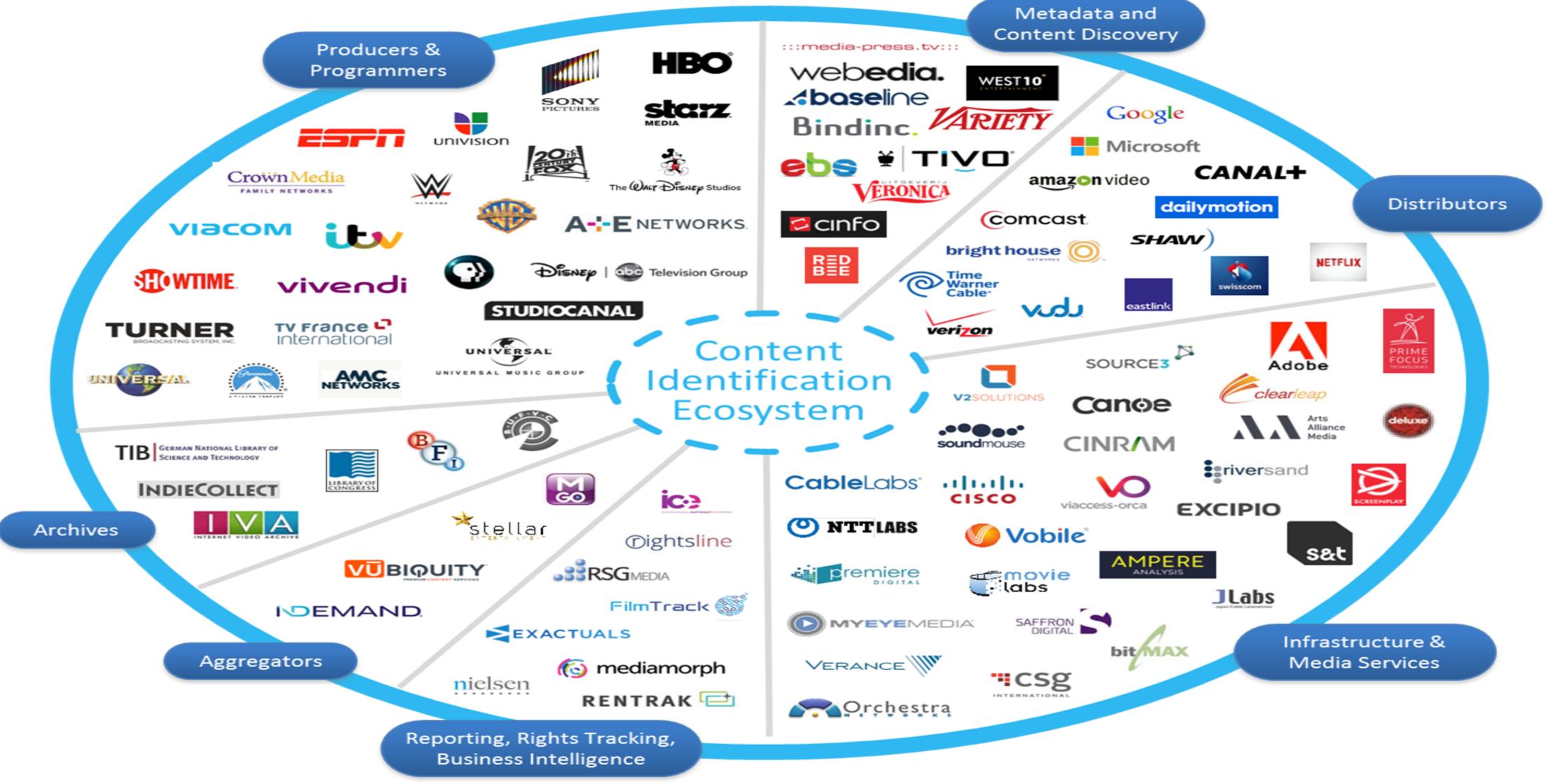
- Registry 1.1 million records
- Membership
  - Europe now 20% of membership
  - Japan and China in discussions
- Use Cases in Place
  - Digital Supply Chain: Google Round Trip from Avails to Financial Reporting
  - MVPD/Broadcast: EIDR Video Service ID showing up in SCTE 35 message
- Use Cases in Development
  - Measurement
  - Business Intelligence







### Membership Ecosystem





## DEG Tech & Ops Committee Priorities

Mark Sgriccia/Lionsgate

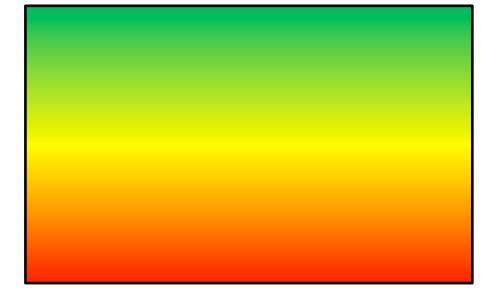
Christopher Stefanidis/Disney



### DEG Prioritized Initiatives

RANK	TOPIC	PRIORITY
1	EMA Avail Spec - Movies	
2	EMA Avail Spec - TV	
3	Localization	
4	EIDR	
5	Common Metadata/MEC	
6	Common Media Manifest	
7	Ratings	
8	EMA Repository	
9	Reporting Standardization & Adoption	
10	Mezzanine File Specification/IMF	
11	SVOD	
12	Artwork/ Image File Standardization	
13	3rd Party Data Aggregator/Storefront Management	
14	Cross-Platform Extras	
15	QC Nomenclature	

Strong correlation w/ EMA



Weak correlation w/ EMA