



Will Kreth,
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# Advanced Supply-Chain



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Structured, Linked, Curated (SLC)

Smart Hollywood Summit



# Supply Chain Initiatives

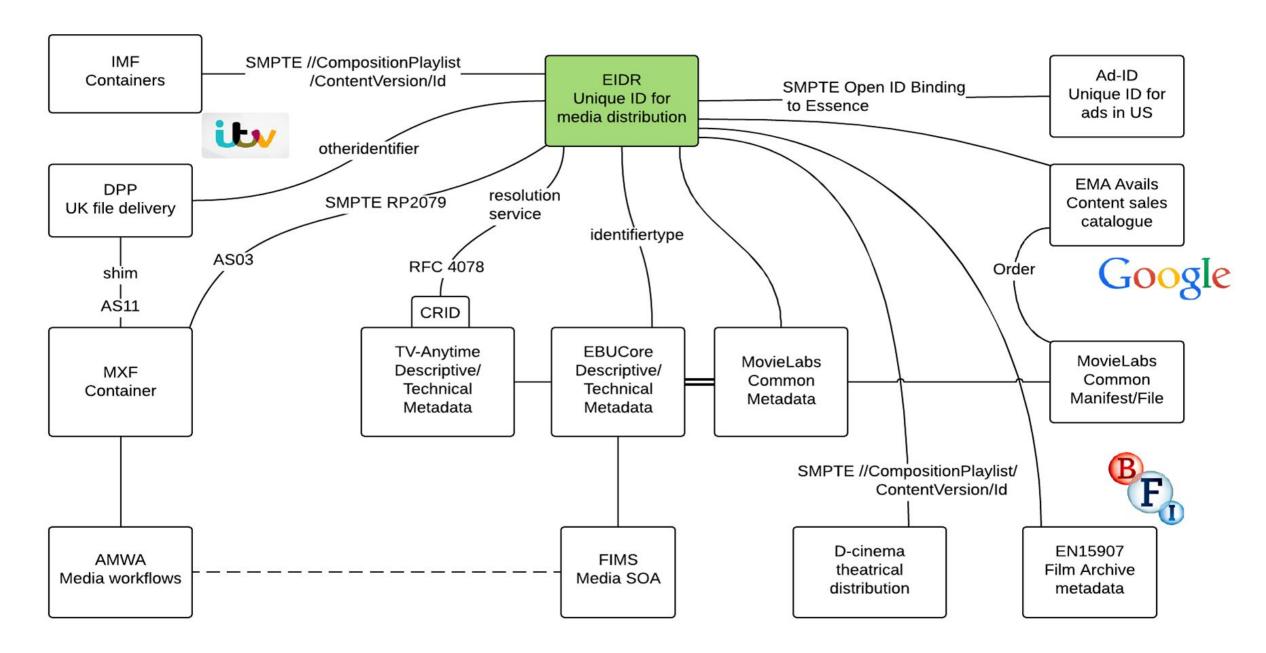
- IMF for Broadcast
  - With further implications for Digital Cinema and In-Flight Entertainment
- TAXI Complete SMPTE's OBID & OBID-TLC standards
- EMA Avails (for Digital Retail)
  - With further implications for Broadcast
- EIDR's Industry Adoption Recent Milestones



# But first, a metaphor!



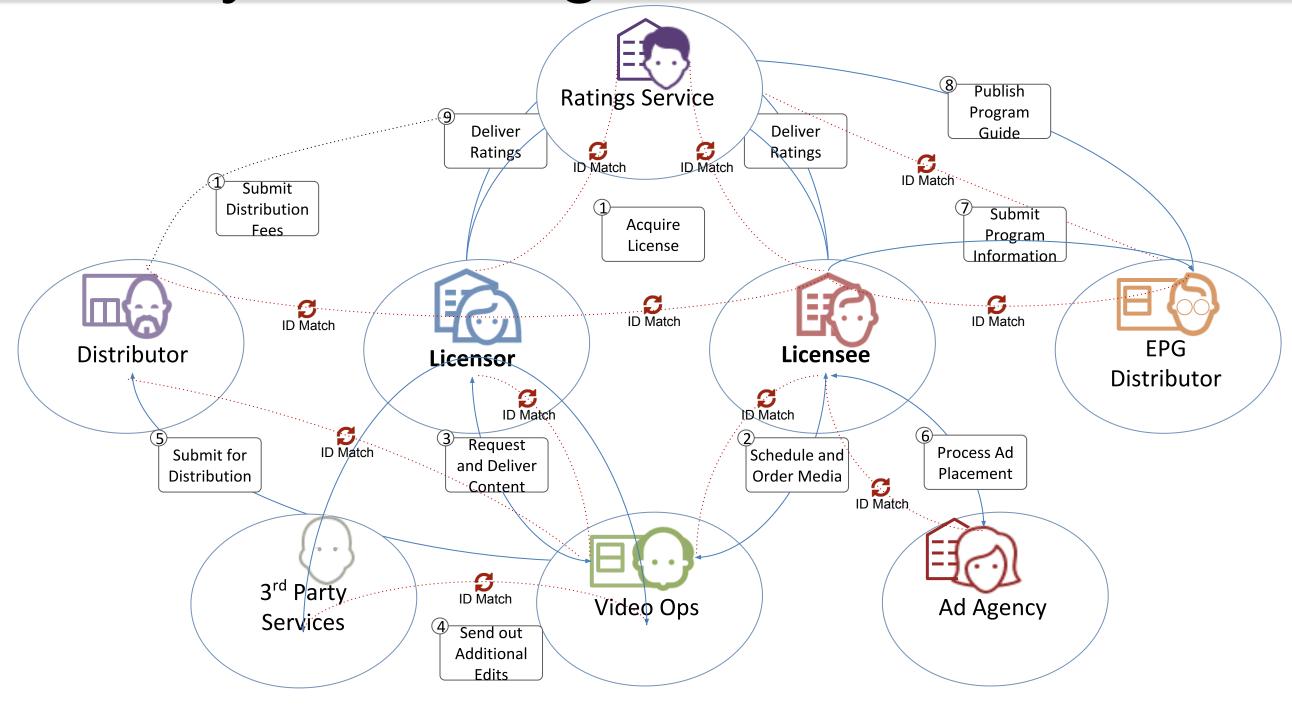
# EIDR in the Standards Ecosystem



Open, persistent, and globally unique EIDR IDs are the glue - the connective tissue between all of these.



### Today: The Negative Network Effect





#### IMF for Broadcast

# The future for Broadcast, Online, Digital Cinema, and In-Flight Entertainment



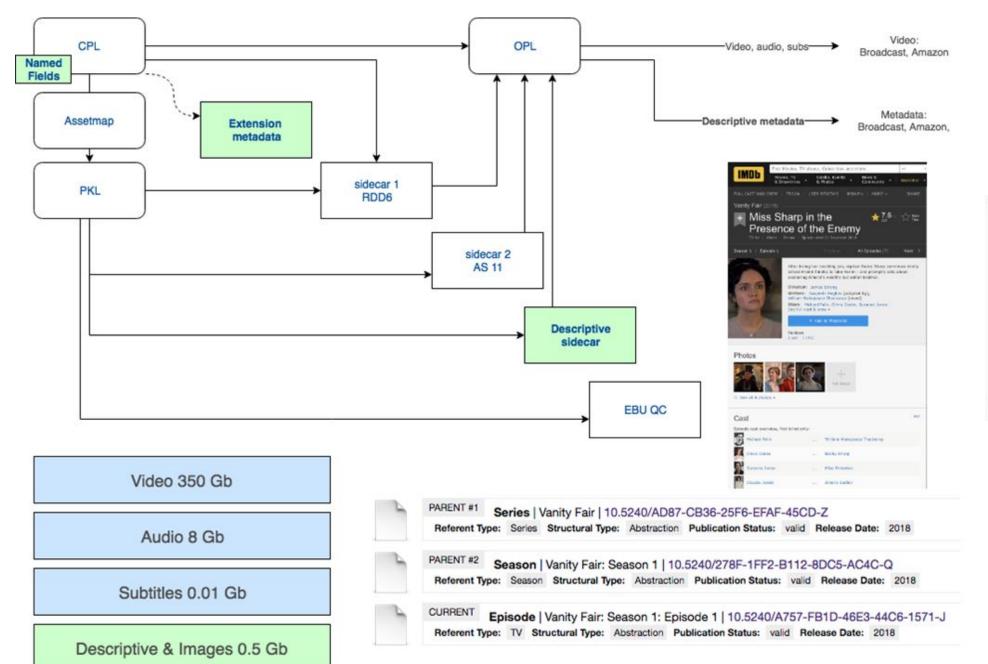




#### **IMF** for Broadcast

- Developed by the Digital Production Partnership (DPP) and North American Broadcasters Association (NABA)
- Extends Interoperable Master Format (IMF) to support broadcast workflows and ProRes
- Standardized as SMPTE TSP-2121 Application DPP

#### **DPP - IMF for Broadcast & Online**





## Extending DPP's IMF Efforts

- Equally applicable for broadcast and online supply chains
- Also (still) applicable to digital cinema workflows
- Currently being adapted for in-flight entertainment



# TAXI Complete

#### SMPTE OBID/OBID-TLC







#### CIMM TAXI / SMPTE OBID

- CIMM (Coalition for Innovative Media Measurement)
  - TAXI: Trackable Asset Cross-Platform Identification
- SMPTE (Society of Motion Picture & Television Engineers)
  - OBID: Open Binding of IDs (ST 2112-10)
    - EIDR Content IDs for programs
    - Ad-IDs for commercials
  - OBID-TLC: OBID-Time Labels to Content (ST 2112-20)
    - EIDR Video Service IDs for delivery channels



# Participating Organizations

KANTAR MEDIA









#### **CIMM Members**













































## Layering OBID Watermarks

- For the same piece of content...
  - Producers can add an EIDR Abstraction ID
  - Distributors can add their EIDR Edit ID
  - Broadcasters/Retailers can add their EIDR
     Manifestation ID plus EIDR Video Service ID
- . All four EIDR IDs can be detected at playout
- Detection at device-level or acoustically
- Acoustic detection verified for ATSC 3.0

#### What is Possible with TAXI/OBID?

An open standard for ID-to-asset binding can enable a wide variety of capabilities:

in

Increased speed, transparency and accountability video content and advertising measurement

Improved media workflow automation within and between M&F entities

Fewer barriers to deploying cross-platform dynamic ad insertion

anti-piracy and copyright protection tools and methods for video and music

Triggering surveys, quizzes or coupons on mobile devices

Standardize tracking assets and audience measurement across media platforms

Accelerated digital content locker adoption and complete long-tail content monetization

Improved automated content recognition and detection

Better **second-screen integration** and improved **multi-screen content discovery** 

On-the-fly media asset assembly

Reduced asset storage and transmission costs

Simplified and less-costly media reconciliation



#### **EMA Avails**

#### Digital Retail Today, **Broadcast Tomorrow**









# EMA Avails, Working Today

- Standardized spreadsheet and XML metadata
- Drives automation of TVOD in the digital supply chain
  - Major digital retailer reports 93% of its movies arrive with EIDR
     IDs (100% from 5 of 6 US major studios)
  - Resulting in 42% reduction in manual tasks and 46% reduction in cycle time
- Essential to any multi-platform distribution strategy
- EIDR ID adoption increasing annually

## EIDR EMA Avails, Expanding Tomorrow

- Ubiquitous IDs enable Universal Search across platforms and providers
- . EIDR IDs in Avails allows EIDR IDs in reporting
  - (royalties/residuals use-cases now in development)
- Content acquisition optimization gains for digital retail can apply directly to Broadcast
  - Avails and ID standardization lead to improved efficiencies and reduced costs (including error remediation)



#### Who supports the EMA Avails Standard?

#### **Content Providers**



#### Retailers



Source: DSCA



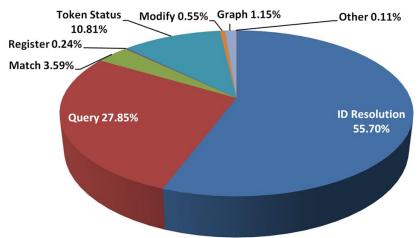
# Measuring Industry Adoption

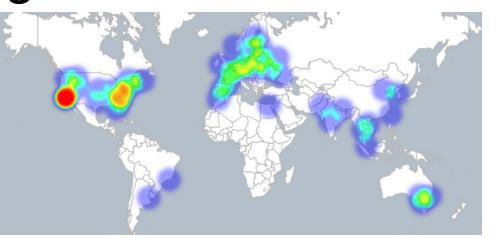
**EIDR Milestones** 

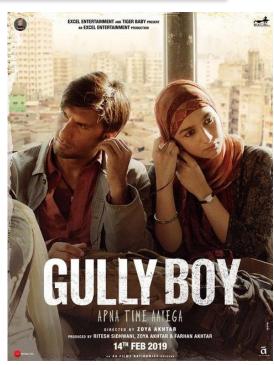


## Measuring Industry Adoption

- . 2 million Registry records (Dec. 2018)
- . 4 million Alternate Identifiers (Jan. 2019)
- . 215 million Registry API calls (2018)
  - <sub>o</sub> 120 million EIDR ID resolutions
  - <sub>o</sub> 60 million query pages returned
  - <sub>o</sub> 8 million match/register calls



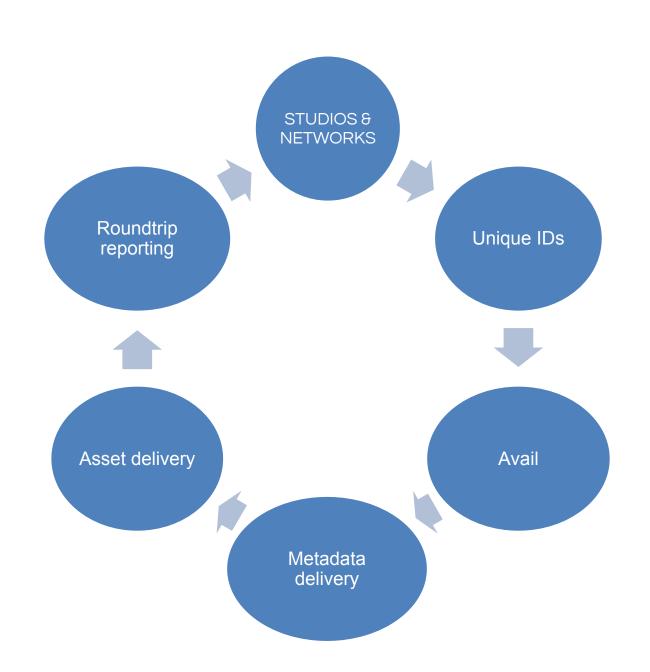








#### 2019 - Next-Gen Supply Chain for Next-Gen Content



- Combined efforts of studios, retailers, service providers, standards bodies, industry advocacy groups
- Supported by DEG, EMA, EIDR, MovieLabs, SMPTE, DPP
- Covering global platforms and regional partners
- Long-term vision
- Near-term key results that deliver value this year



#### We all win when we keep the fire burning!





# EIDR: Providing Structured, Linked, Curated Identification



Will Kreth, Executive Director

Useful Today, Increasingly Valuable Tomorrow



Richard W. Kroon
Director of Engineering