

# **Finding Gold In Your Media Archives**

Leveraging AI for Content Monetization





# Speaking today.

**PATRICK MURPHY** M & E Custom Partner,

Quantiphi

### PAUL LASSERRE

AI/ ML Global Solutions Lead, AWS

### RAOUL COSPEN

Director of Product Strategy, News, Dalet

# A Year Off-Script

2020 - What changed for Media & Sports Industry



# 2020 Brings archival content into focus.

- Archival content for documentary & sports stories.
- Innovation in content repurposing
- Fodder for personalized marketing & continuous engagement.



# Audiences have changed too



Direct relationship with content.

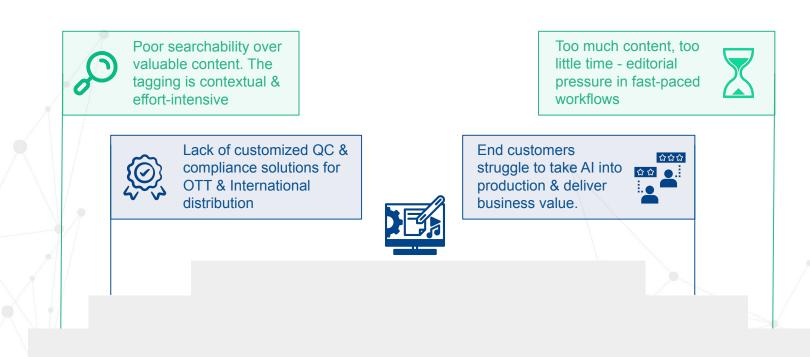


Global Content Preferences.



Fragmented & niche content genres.

What makes the monetization of existing content challenging?



# **AI** For Monetization

Building blocks of a Turn-key Solution



Al/ML capabilities in the cloud



Al-powered Media Asset Management



Custom-built Video Intelligence



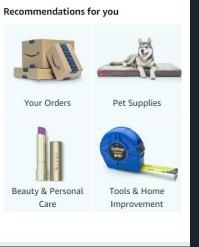
PAUL LASSERRE AI/ ML Global Solutions Lead, AWS

# **AI/ML** capabilities in the cloud





# Amazon's machine learning innovation at scale









4,000 products per minute sold on Amazon.com

### 1.6M packages every day

Billions of Alexa interactions each week First Prime Air Delivery on Dec. 7, 2016



# The AWS ML Stack

### Broadest and most complete set of machine learning capabilities



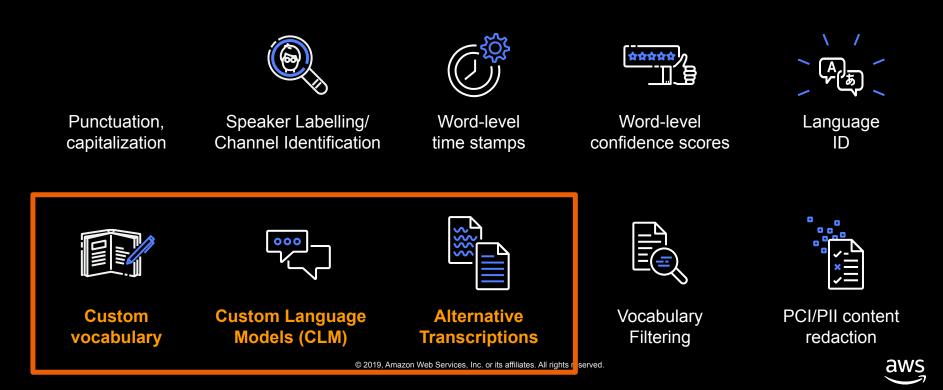
# Amazon Transcribe: Speech-to-Text AI service Produce transcripts that are easy to read and review



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aws

# Amazon Transcribe: Speech-to-Text AI service Customize transcripts to your domain and use case



# Amazon Transcribe: Speech-to-Text AI service Enables content filtering and privacy



Punctuation, capitalization

Speaker Labelling/ Channel Identification



Word-level time stamps



Word-level confidence scores



Language ID



Custom vocabulary



Custom Language

Models (CLM)



Alternative Transcriptions



Vocabulary Filtering



PCI/PII content redaction

aws

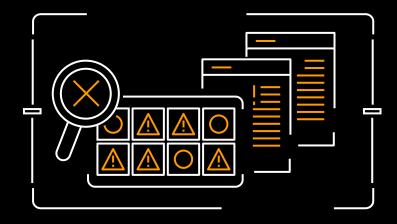
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# Amazon Rekognition image and video



# Opportunities for accelerating AI/ML projects

End customers struggle to get AI applications into production and deliver business value to stakeholders

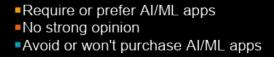


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# Our customers increasingly want ready-made AI/ML solutions

What is your AI/ML preference when it comes to evaluating cloudhosted/SaaS application providers? **65% require or prefer** cloud applications with AI



**IDC** attribution



# Hence the importance of AWS partners to deliver ML turnkey solutions



AWS Media Intelligence Solutions

Content Search and Discovery Subtitling and Localization Compliance and Moderation Content Monetization







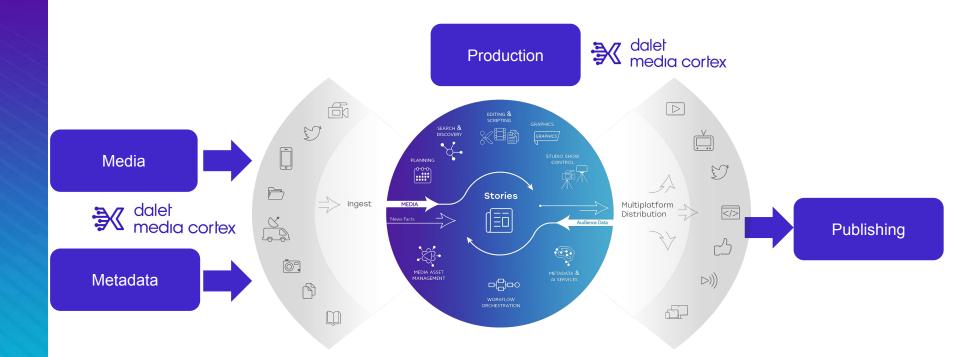
RAOUL COSPEN

Director of Product Strategy, News, Dalet



Al-powered production Asset Management

# Leverage AI in your Production Asset Management





# Al isn't just about collecting Metadata



# A Sport Case Study

# Samples of Editorial Needs



### **A News Journalist**

wants to find the close ups of the key players of the game during their best actions

### A Sports producer

needs the best actions of the season of a specific player

### **An Archivist**

needs to automate the production of the game melt

### A Sponsor

Needs to measure the screen-time of his logo

# 1. Collecting Metadata



Stadium

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# 1. Collecting Metadata

### From Traditional Metadata

### **Sports Statistics and Logs**

- Actions (soccer example: goals, yellow/red cards, injuries, ...)
- Manual logs (sequences, named players, action ratings, ...)

### To AI Based Metadata

### Speech-to-text

- Transcripts and captions of comments and interviews
- Speaker diarization



### Face / Player recognition

Jersey numbers Face recognition

# Logos / Objects Recognize logos

- Identify certain objects

### Sequences

- Slo motion sequences
- Close-ups
  - Wide plans
  - Stadium shots
  - Interviews



Stadium

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# 1. Collecting Metadata

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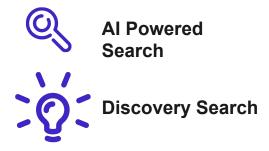
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### AI Powered Tools



Highlight production

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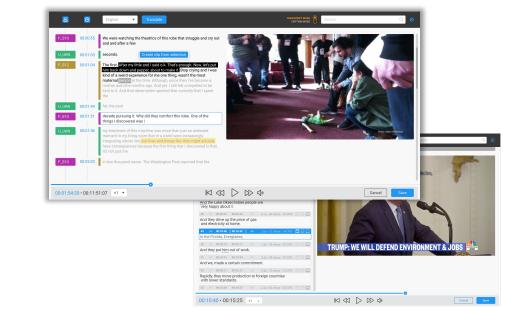


# Use Case 2 - A News Case Study

# Use Case 2: Productivity AI Powered Workflows

Cut content at the speed of light

Half your production time by using the transcript - no need to watch the entire video



### Caption Workflows

Save up to 80% time spent creating captions

# Discovery search

Discovery can contextually surface content amongst millions of assets in less than a second



# **Tangible Benefits**

# How Artificial Intelligence Can Help my Media Workflows?

## Some Benefits:

- Reduce by 90% the need for manual indexing
- 80% time saved to create captions
- Cut content 2x faster
- · Search across millions of assets in less than a second



### **Increase Productivity**

Innovative Production Tools leveraging AI data :ଡୁ:

## **Improve Quality**

Surface relevant Content to create more compelling Stories



### Automate Time Consuming Tasks

Cognitive Services to help Indexing, Captioning, Editing and more



PATRICK MURPHY M & E Custom Partner, Quantiphi



Custom-built Video Intelligence



# Custom-built Video Intelligence

# Not all metadata is relevant.

Generated metadata must justify its business utility & meaningfully describe the content.



### Time-based Information

- Scene level Information.
- Camera cuts/ transition

### Characters & People

- Face/Characters
- Emotions
- Story Arcs

### Background & Production Elements

- Objects/ Set Locale /Camera Angles.
- Overall Ambience/ Screen graphics

# Customized AI for your content



### Features

Character Identification



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**Emotion Detection** 

Object Detection & Tracking

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Pose Detection & Estimation

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Camera Angle Classification

### **Business Impact**



Enable deep search and retrieval of monetizable micro moments

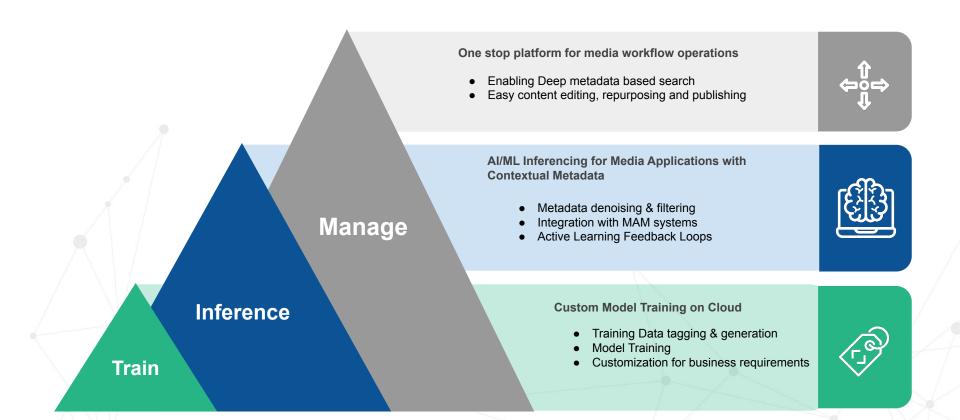


Repurpose archived content for mashups, promos, highlights & documentaries

ADS Enable

Enable contextual ad placement on OTT

# Making Your Content Smarter



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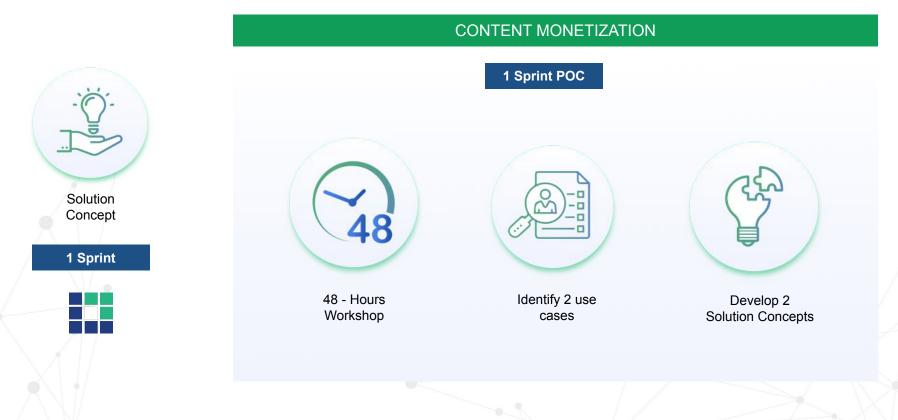
# The Art of Start

Implementing AI for Monetization



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# **Engagement Offer**



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# Questions



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THANK-YOU

