#### Move Artificial Intelligence (AI) from Labs to practical applications for the professional Media Industry



#### **ABSTRACTION LAYERS and VALUE CREATION**



#### **DATA DRIVEN OPERATIONS**

BI - Business Intelligence AI - Artificial Intelligence Big Data

#### **ORCHESTRATION**

Manage the Flow of Program Elements throughout the media supply chain

#### **MEDIA ASSET MANAGEMENT**

Manage the Stock of Program Elements

#### **DIGITIZED Media Assets**

Dematerialize storage and transport

# Distribution of the securities market key players Changes in the activity of the Changes in the activity of the

# DATA DRIVEN OPERATIONS

Business Intelligence





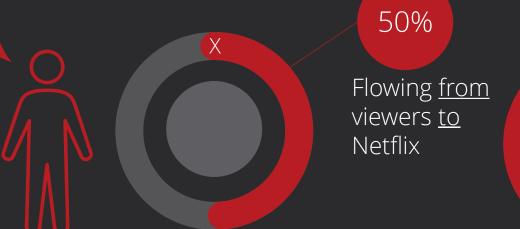


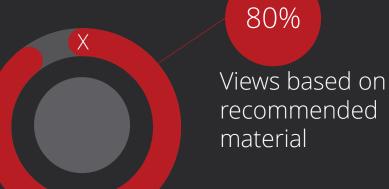
"Netflix is a **BIG DATA** and Telemetry company, that as a **by-product** delivers streaming **VIDEO** to it's audience..."

Netflix Core Operations Manager

**Bandwidth of data between Netflix and the audience** 

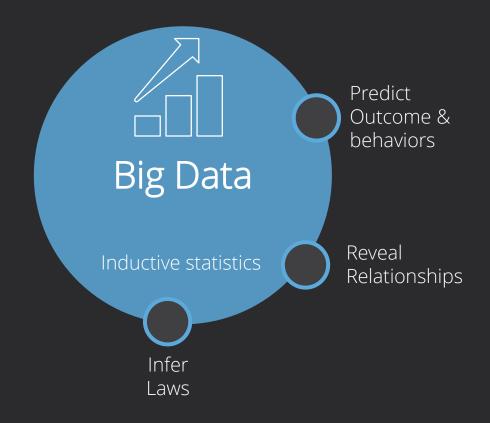
Views based on recommendation engine





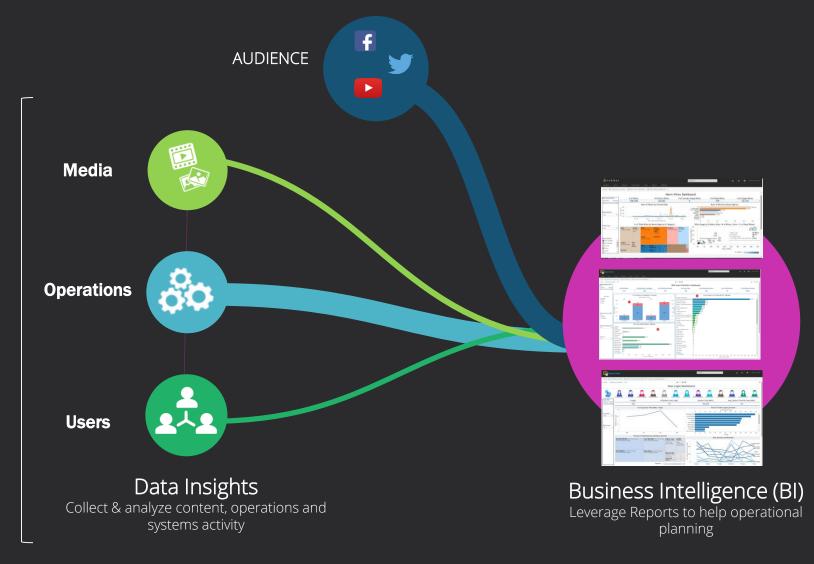
#### **TOOLS & TECHNOLOGY**

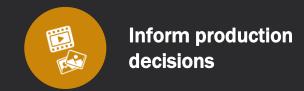










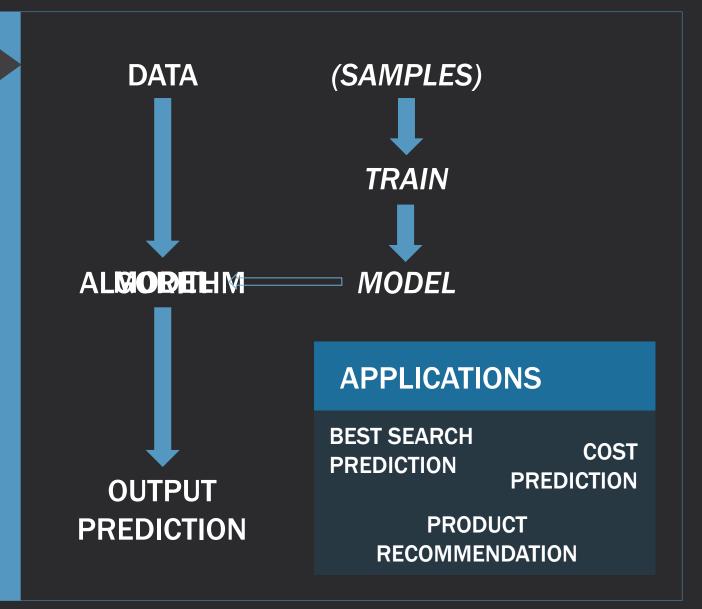




**Viewer Content Recommendation** 



# **EARNING** MACHINE





Artificial Intelligence

# **MACHINE LEARNING**

# DEEP LEARNING

#### 2010's - A REVOLUTION







Cortana

Siri

Alexa



#### **MEDIA APPLICATIONS ...**

**OCR, FACE & LANGUAGE RECOGNITION** 

SPEECH-TO-TEXT TEXT-TO-SPEECH

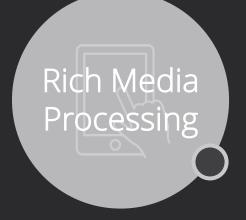
OBJECT DETECTION

COLORI-SATION



## PRACTICAL IMPLEMENTATIONS

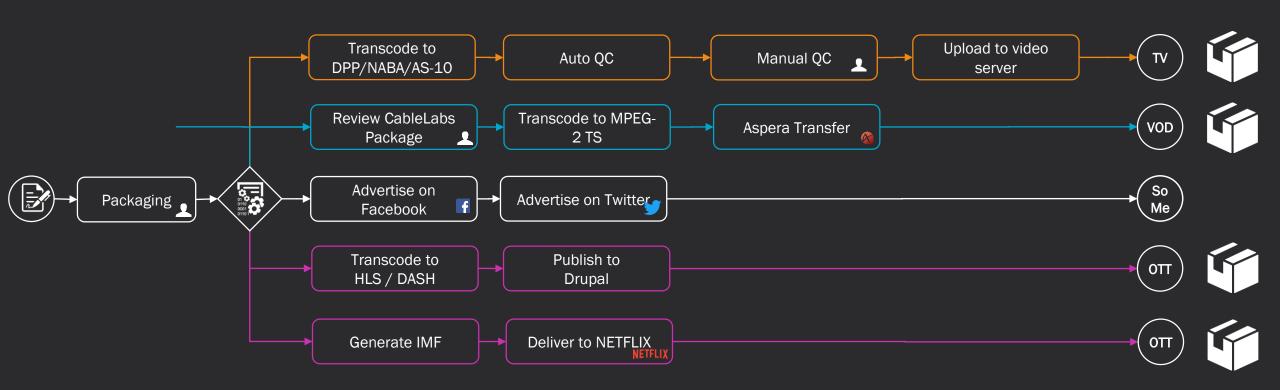
Media Supply Chain





#### **MULTIPLATFORM DISTRIBUTION**





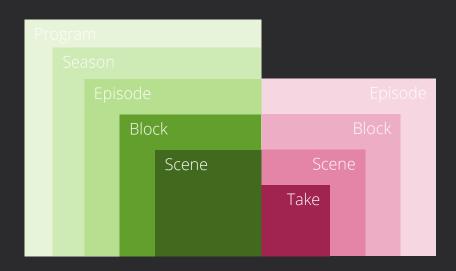


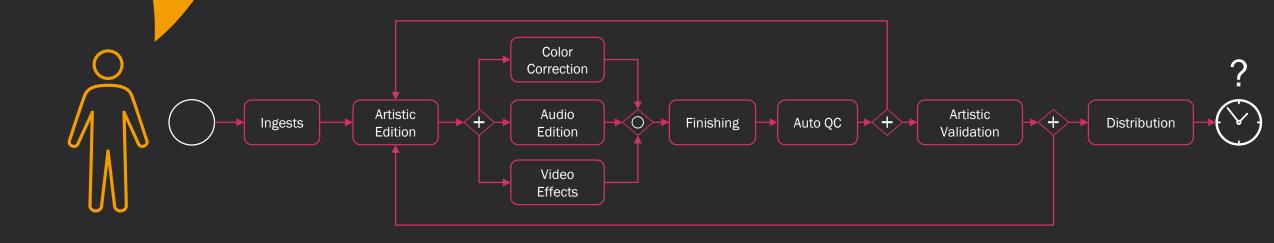
#### **MEDIA SUPPLY CHAIN**

"I produce a daily show.

I have a complicated production process and a tight deadline. How can I make sure my product will be ready on time?

What's the ETA?"





# MACHINE LEARNING

### MEDIA SUPPLY CHAIN OPTIMIZED





Predict ETA
On-demand



Alert on risk of missing deadline
Contingency can be activated

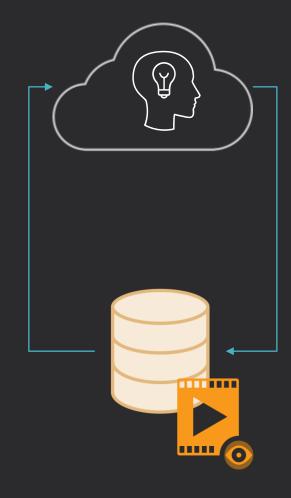


Predictive capacity scaling
Auto scale infrastructure & book new resources

#### RICH MEDIA PROCESSING



Call Media Analytics Service



Get Analytics Results back









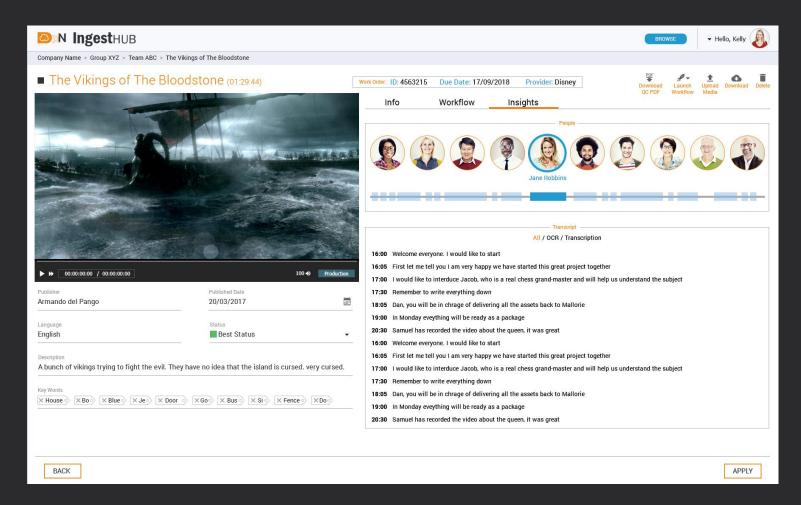


ENRICH YOUR MEDIA

#### **INGEST HUB**



#### **CENTRALIZED INGEST IN THE CLOUD**



Prepare files for downstream processes:

- Cleaned
- Enriched

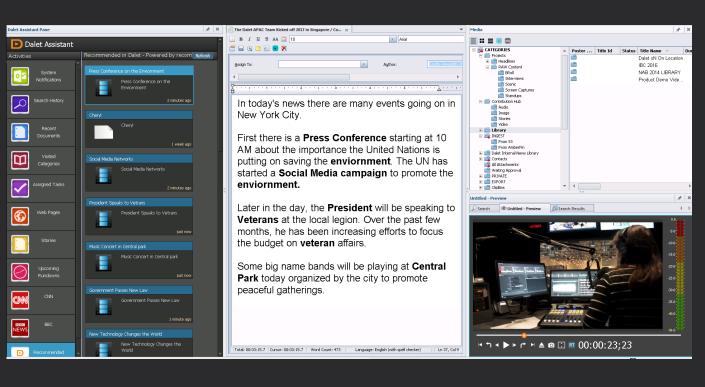
Leverage Microsoft Azure Video Indexer for content enrichment:

- Keywords
- Speech-to-text
- OCR



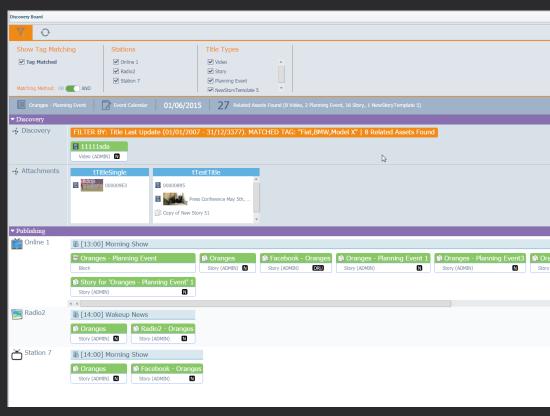




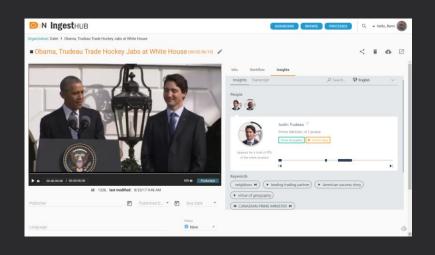


Recommendation engine to suggest meaningful content to journalists, based on:

- User actions and preferences
- Auto-generated metadata
- Asset links









Based on data analysis (Face recognition, Speech to text, etc) the system is capable to create automatically the graphics overlays (CG).









#### ARTIFICAL INTELLIGENCE OPERATIONS

A FOUNDATION FOR FUTURE MEDIA OPERATIONS



#### THE FOUNDATION

MAM & ORCHESTRATION combined



#### REMAINING CHALLENGES

DATASET, QUALITY

## THANK YOU

