



data zoom™

•Using data to build-in Resiliency & Feedback to improve the business of video.

•Diane Strutner, CEO

•Datazoom - The Video Data Infrastructure Platform

•www.datazoom.io

www.theiabm.org

@THEIABM





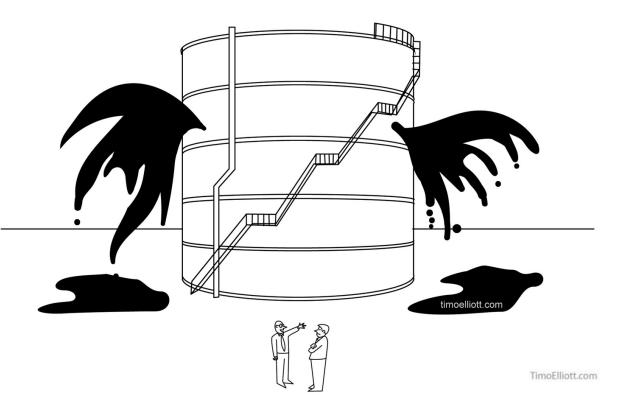
"Organisations struggle to corral data into useable and actionable intelligence. Without clean, relevant, and labeled data, organisations are stymied in their efforts to move aggressively on AI, which CEOs overwhelmingly 'agree' will have a significant impact on their business within the next five years."

PwC's 22nd Annual CEO Survey (1,378 CEOs in +90 territories)



Problem

Video Data isn't standardized, centralized, or organized. No easy way exists for streaming companies, or the vendors and internet infrastructure that support streaming, to analyze and make adjustments to improve video performance.



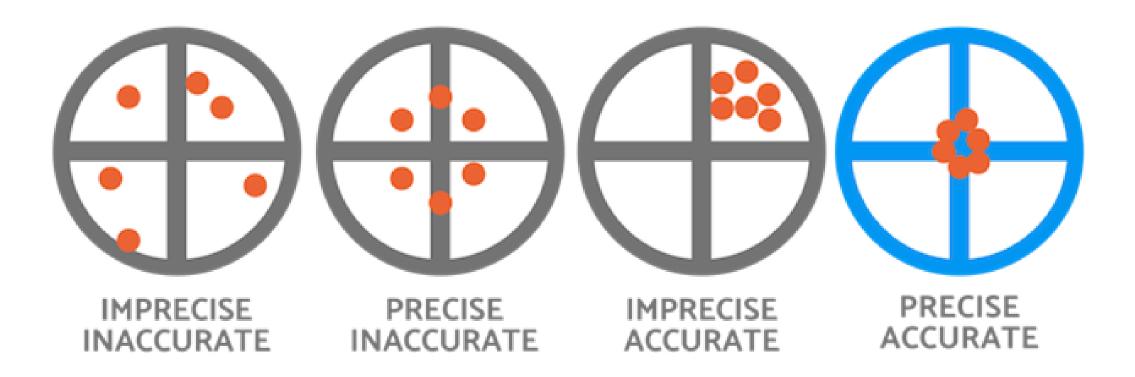
"Data is the new oil? Absolutely—toxic if mishandled!..."

What **data** do we have today? How good is it?





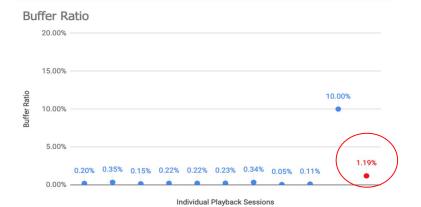
Data quality is measured by Accuracy & Precision





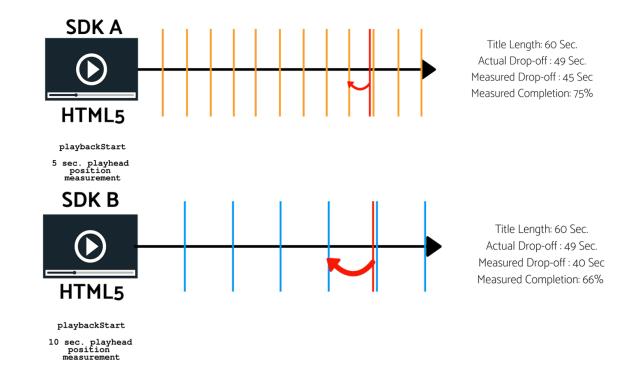
Metrics Obfuscate Accuracy & Precision

Different data calculations are used. Is buffer ratio 1.19% or .21%?





Different data **measurement** is taken. Is completion rate 75% or 66%?



@THEIABM

Individual Playback Sessions





data zoom

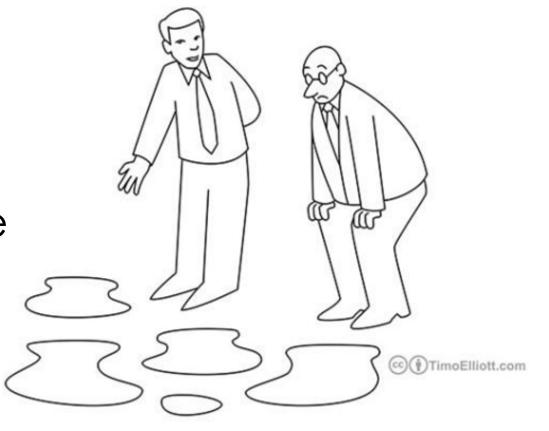
Singular datapoints and measurements don't tell the whole story.







Understanding datapoints and measurements require **context**.



"We call them our data puddles!"



data

zoom



Placing video data into context means enabling correlation

E.g. If we detect a **buffering** problem, looking at only one data source most often will not identify why it has occurred.

List of possible causes for buffering:

Break in Feed Encoding Error Transcoding Error Packaging Error Origin Upload Error CDN Asset Error CDN Congestion DNS Error DNS Congestion Transit Error Transit Congestion ISP Error ISP Congestion Last Mile Error Last Mile Congestion Device Error Application Error Video Player Error



Review of Current Data Challenges

Embedded Subjectivity

Can we consistently reproduce our results? Subjectivity is carried into all downstream analysis & functions.

Data Silos & Restricted Access

Do we have all relevant data in one place?

Lack of Data Standardization

Is data prepared to be used AI and ML systems to use it?

Slow Data

Do we have access to data in a relevant time-frame so that real-time Automation can have meaningful results?



Datazoom's Video Data Infrastructure Platform

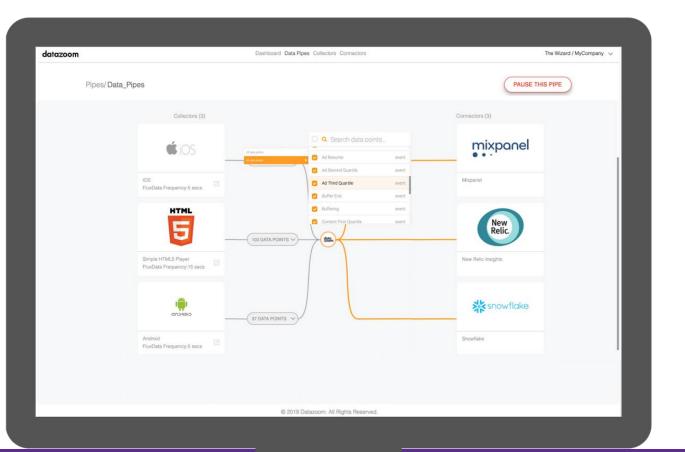
Capture. Specify data to collect raw data using our SDKs/Libraries, or via 3rd party Logs/APIs.

Classify. Normalize data according to our Data Dictionary.

Connect. Join disparate datasets and integrate data across the technology stack, with sub-second delay.

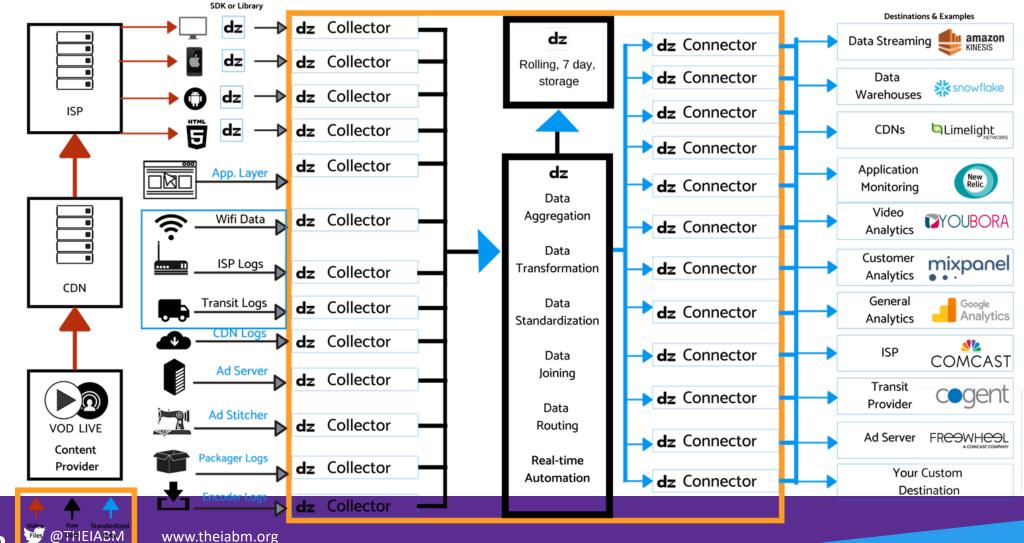
Automate. Rules engine to adjust and add resiliency for critical services

embedded at the end-point.



data zoom

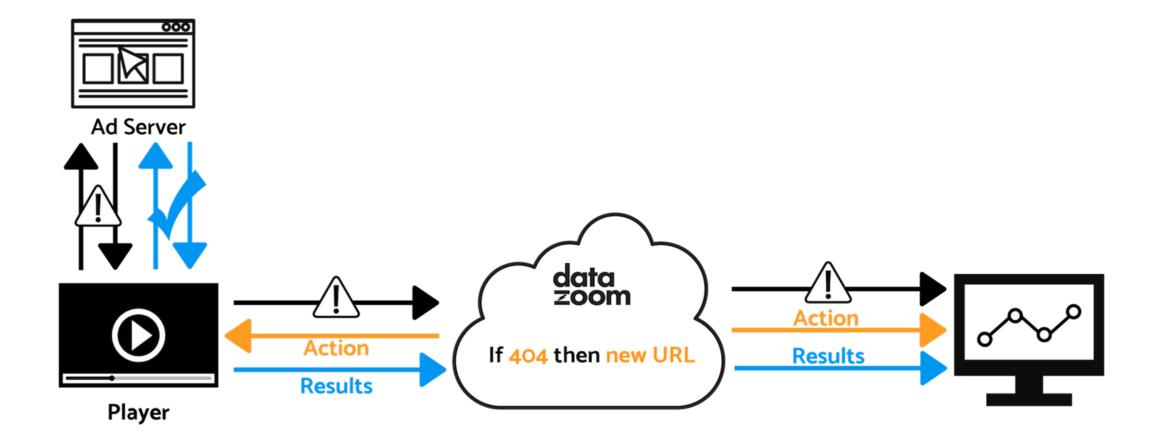
Goal: holistic 'datatecture' to enable intelligent automation in video



www.datazoom.io

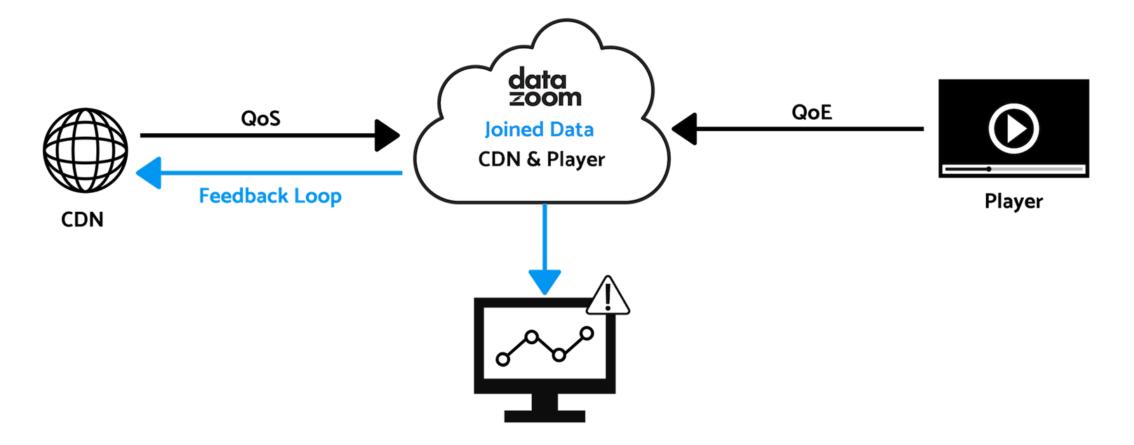
What things can we improve using *intelligent automation*?

Failure recovery to build-in **Resiliency** for the things we can control.





Data sharing to build-in **Feedback** for the things we can't control.









Want a copy? email: diane@datazoom.io

