

Cloud Contribution







Who Drove #43?







NASCAR LIBRARY

5000000

- 300 hours a week of new content
- 1% of new footage is used the week acquired

*For purposes of this presentation we are only discussing video. Should we include audio, our archive would surpass 760,000 hours of content



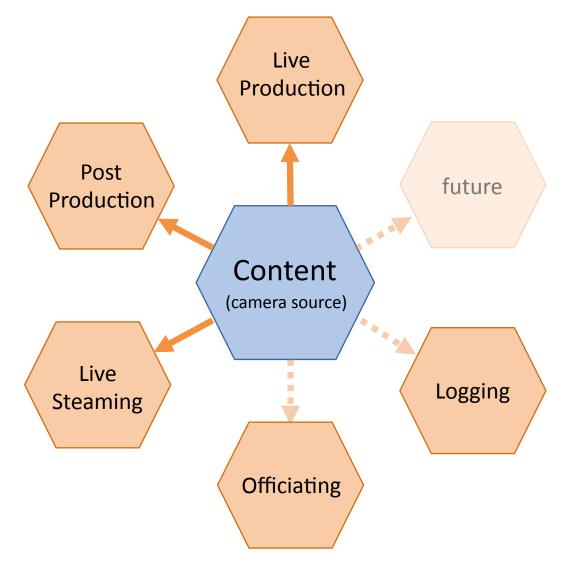


Should we move our entire library to the Cloud?





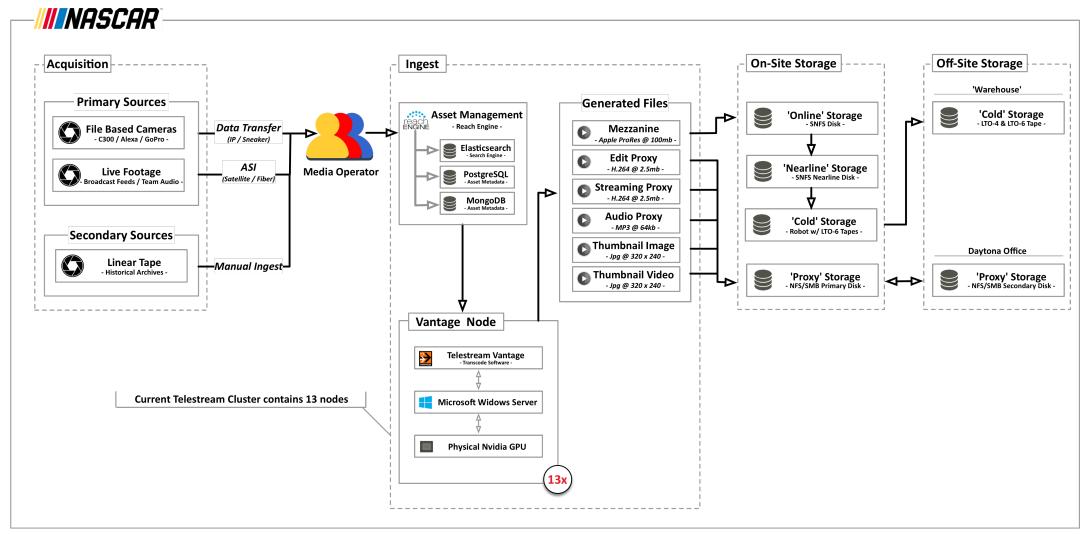
Where Do We Use Our Content?







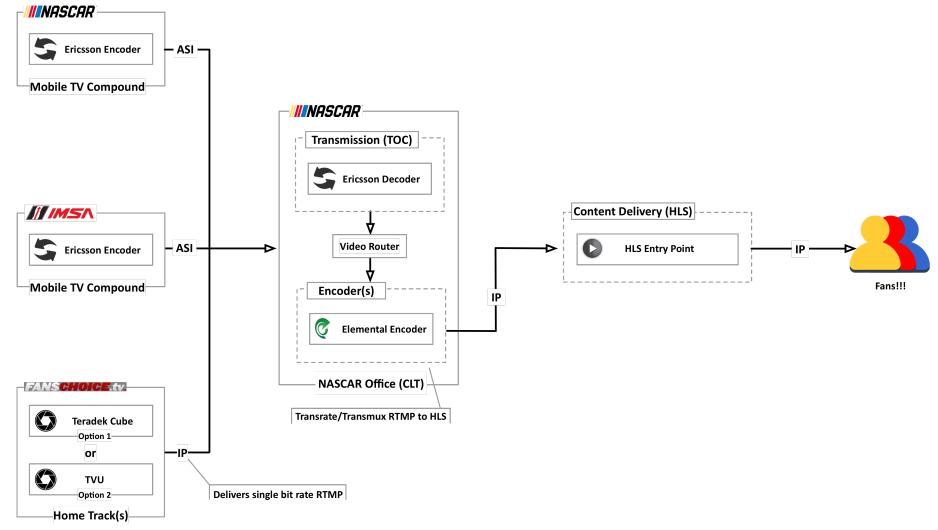
Current High Level Workflow - Library







Current High Level Workflow - Streaming





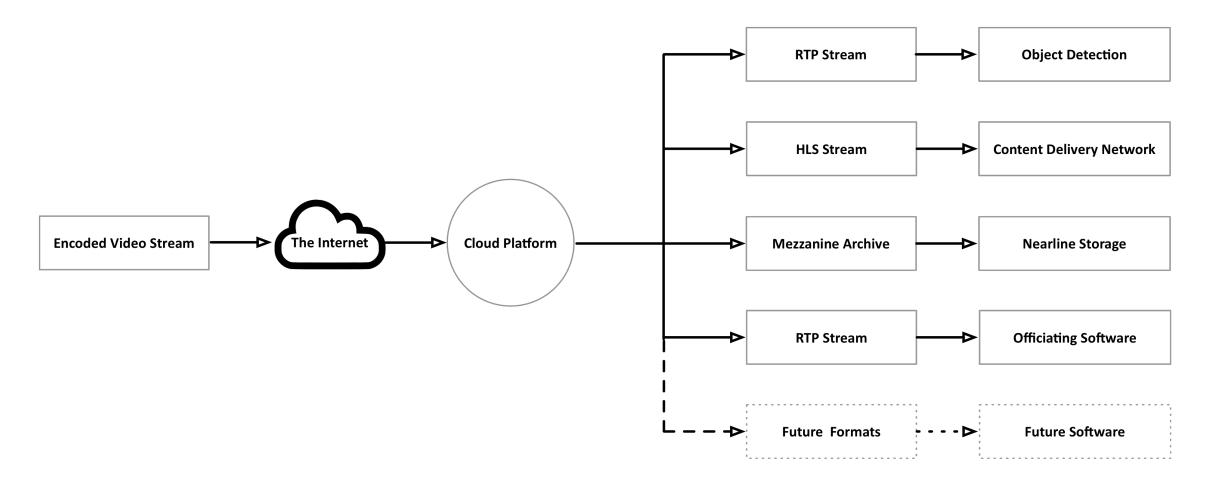


Can we be more efficient?





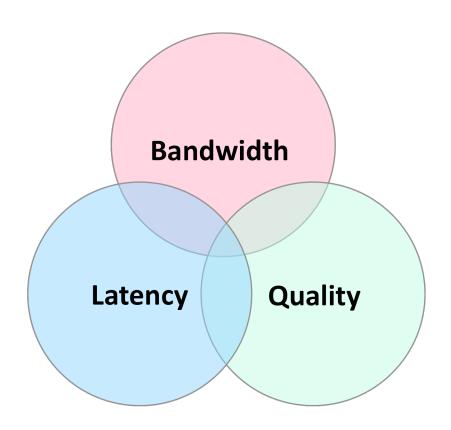
Cloud Contribution - High Level Workflow







Cloud Contribution – The Constraints

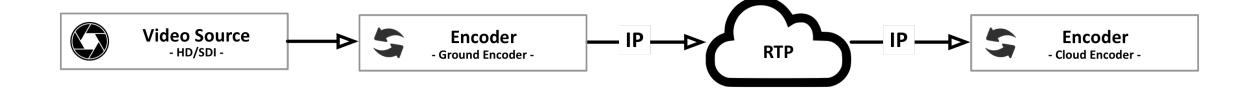






How it works – Option 1

- Encode as HEVC
- Deliver as RTP

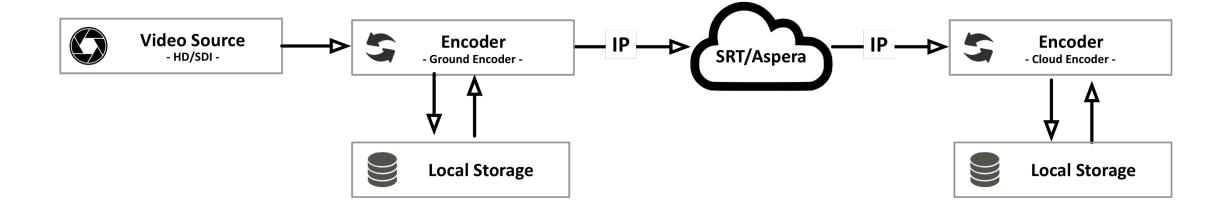






How it works – Option 2

- Encode as HEVC
- Deliver as TIFO







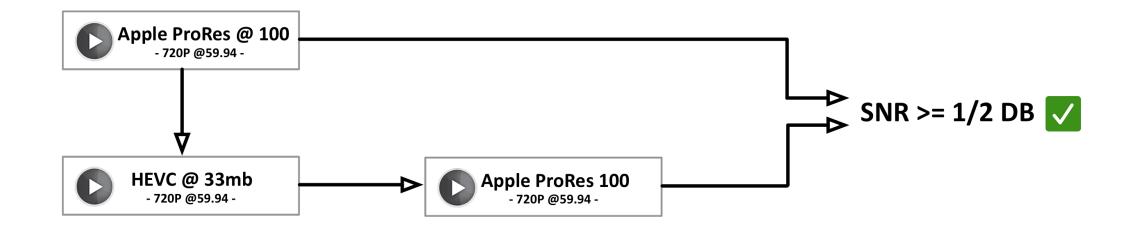
Quality - Signal To Noise Ratio

$$SNR = \frac{P_{signal}}{P_{noise}}$$





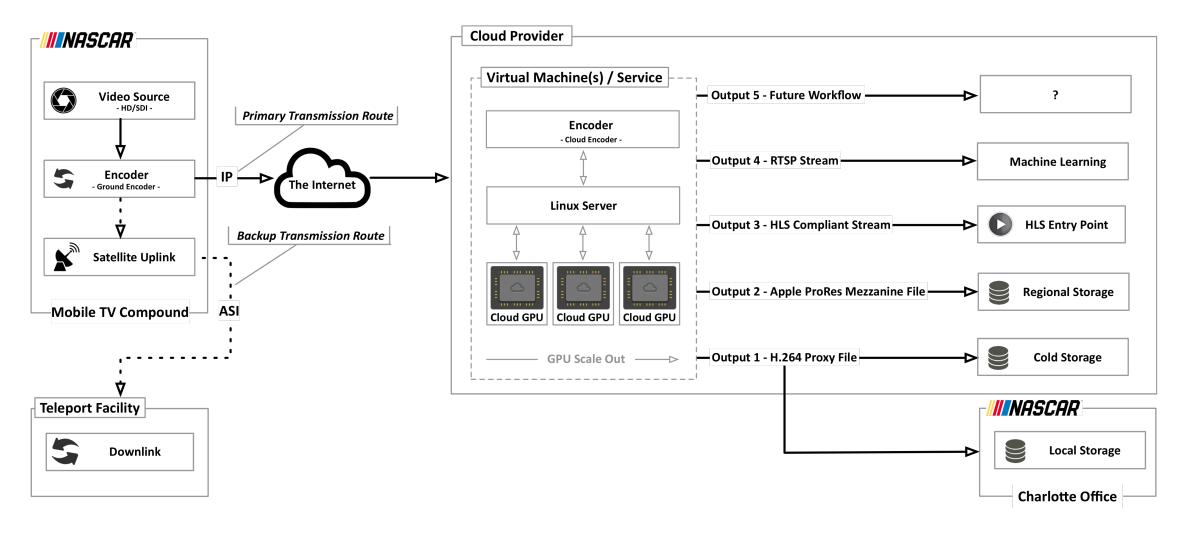
Quality - Signal To Noise Ratio







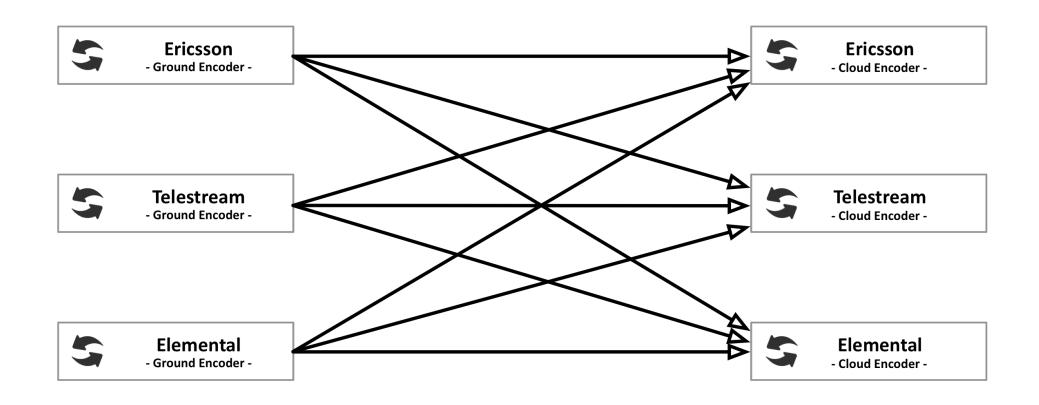
Detailed Workflow







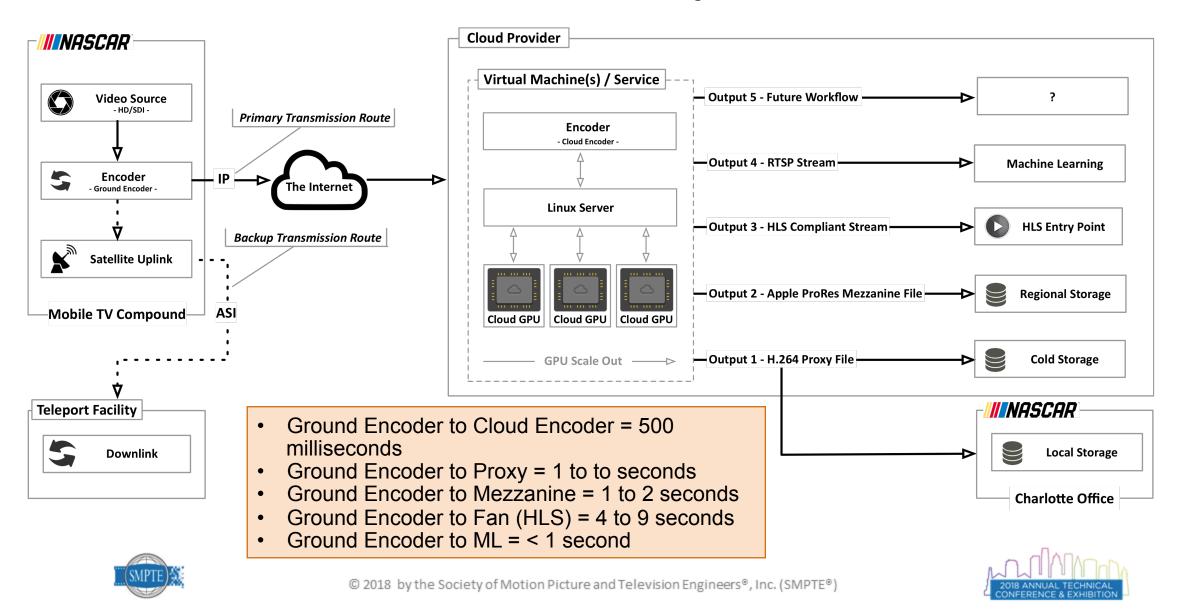
Open Architecture







Detailed Workflow – Delivery Times



Advantages of Cloud Contribution

- More efficient use of bandwidth from event (track)
- Trigger multiple workflows from one source
 - Reduce staff?
 - Reduce ability for mistakes ?
- Reduce CapEx
- Allow future workflows/deliverables by harnessing the Cloud





Questions?



