

### Champions:

**Participants:** 













Associate sponsors:



Media partner:



# **S**RED5 **AMD**



# SINGULAR.LIVE







# **Aspirations**

Live, interactive sports streaming delivers additional revenue / ROI / market share through personalizing viewer engagement.

### **POC Objectives:**

- Create next generation interactive use cases like betting, watch party, fan wall, multi-view, gamification that can be monetized.
- Enable new revenue streams for content providers with expensive sports league licenses
- Be technically innovative leveraging each partner's strengths



# **Background Challenges**

Current streaming technology limitations don't allow for live interactivity due to latency and scalability problems

- real-time **video sync is difficult** with multiple angles
- hardware encoders are not optimized for real-time encode + streaming
- traditional protocols (HLS, DASH, CMAF, LL-HS) lack ultra low latency
- second tier leagues + women sports lack large budgets
- cellular networks in arenas don't provide consistent performance + bandwidth
- need a future interactive environment for AR, XR, etc. for mobile devices and headsets
- dynamic overlays are difficult to implement and not available on mobile

#### #IBC2023 #ACCELERATORS2023

treaming I**tency** 

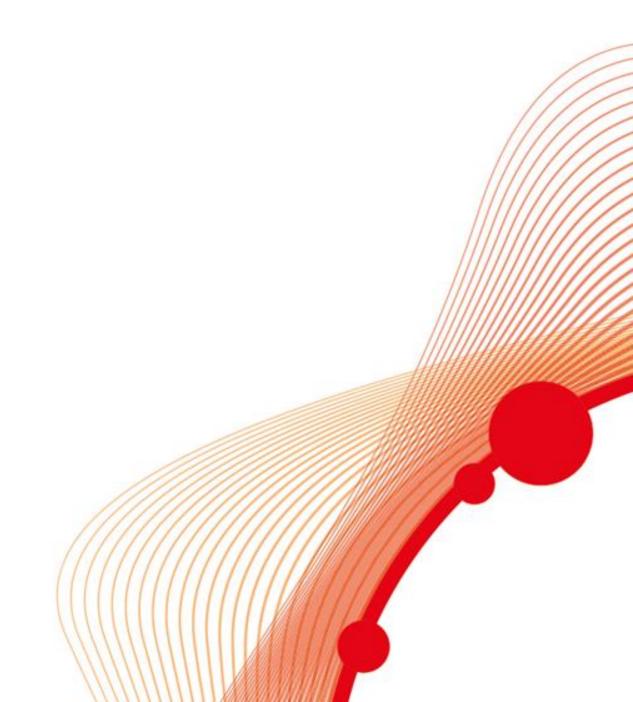
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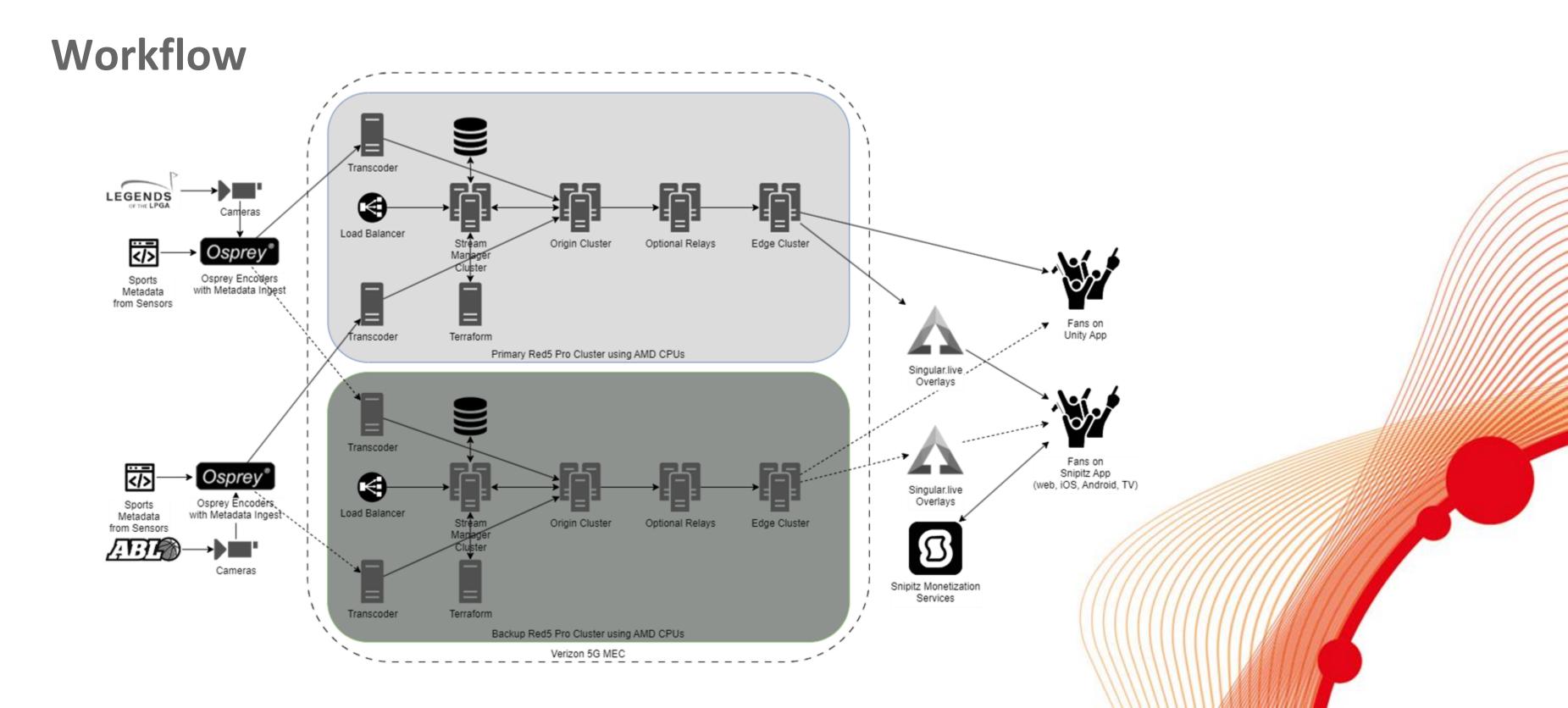
### **The Solution**

### Live Synced and Real-time for in-venue and at home











# **Solved Together**

Proposed workflow requires new high-performance hardware + software



Video sync and server-side mixing over WebRTC Live 720p encoding per frame at 60 fps WebRTC streaming at scale in 5G MEC 5G provides consistent performance and bandwidth Combines streaming tech to put interactivity in the fans hands Game engine adds XR capabilities Dynamic overlays add interactivity



## Achievements

Successfully tested at professional venues, both large and small scale for at home and in-venue. Worked with our partners to deliver a POC, which will evolve into live fan experiences in 2024, both in-venue and the home.



"I had firsthand experience with this project at a live professional event. The crack of the bat and the video on my phone perfectly synced. The experience was completely seamless, and having multiple views right from my seat was a game changer."

Brandon Costa, SVG





# **The Future**

Through interactive streaming, find new, innovative ways to personalize and monetize sports / branded media content.



Launch productions with major US Sports League in 2024

### Video

AR, VR, 3D video, live overlays, sync KLV data

### Audio

influencers in sports, personalized color commentary, real time language translations, in-venue music experience

### Monetization

betting, advertising, watch parties



# Appendix

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The Post

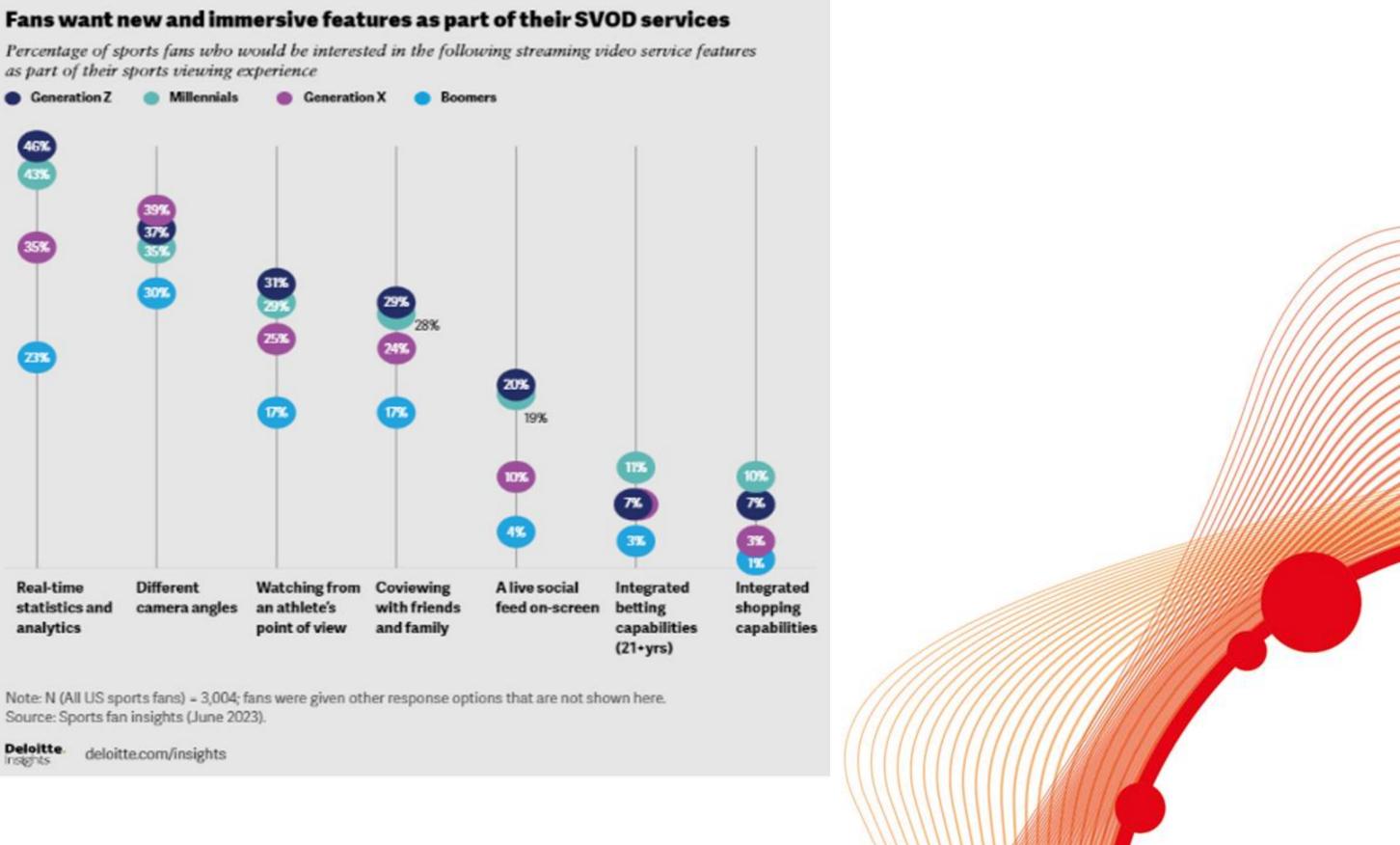
LONG JUN



# Many fans, especially younger ones, are multi-tasking while watching sports at home Percentage of sports fans who do the following activities while watching live sporting events from home 8 34% 18% 19% 15% 6% 4% 5% 2% Note: N (US sports fans who watched live sporting event from home) = 2,980. Source: Sports fan insights (June 2023). Deloitte. deloitte.com/insights

Look up player or team statistics	Total 44%	Cemeration 2	49%.	66 Generation X
Use social media to read comments and opinions from others	36%	51%	46%	39%
Use social media or a messaging service to interact with others	34%	44%	47%	35%
Watch another game on a separate device	22%	21%	30%	23%
Bet on a website or mobile app (21+ yrs)	1596	22%	24%	16%
Play fantasy sports	15%	17%	25%	18%
Purchase sports merchandise or memorabilia	13%	17%	20%	14%
Play a game related to the event	11%	22%	18%	7%







Real Time Interactive Streaming Personalises Live Experiences

Monday 18th September 12:15-13:15

CHRIS	AL	LE	N
CEO			
RED5			

**JOHN CANNING** Director, Developer Relations AMD

**ANDREW LOMBARDI** Chief Production Office **SNIPITZ** 

SVG

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