Co-Creation Stage: A Multiview Tool **Enhanced with Adaptive Multimedia Delivery to Enable Co-Creation of Opera Shows**



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TRACTION Project

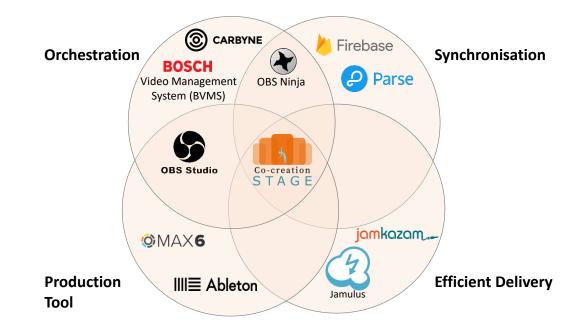


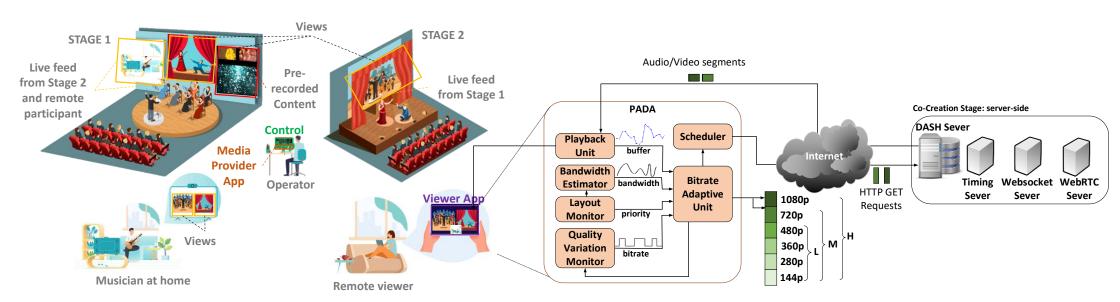
for a social transformation Market Study



- It promotes co-creation and participatory art to combat social exclusion
- How? By establish a collaborative and participatory production workflow for the cocreation and co-design of opera
- 3 communities involved: immigrants at the inner city of Barcelona, young inmates in Leiria's prison (Portugal), and residents of Inis Meáin (Ireland)

Co-Creation Stage Architecture





Adaptive Algorithm (PADA)

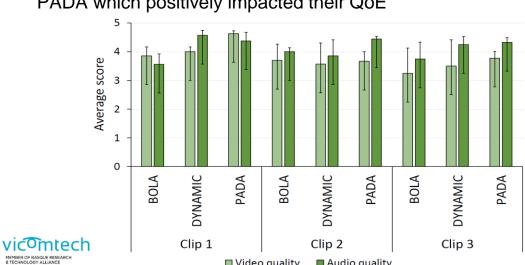
- It aims at reducing bitrate switches while averting playback interruptions
- It assigns priorities to streams based on their significance to the overall performance
- It selects the most suitable bitrate for each stream considering available bandwidth, playback time, and quality variation
- Unlike existing schemes, it gives precedence to sound over video as it is an integral part of opera shows

Collaborators

Mikel Zorrella, Stefano Masneri, and Iñigo Tamayo

Experimental Testing

- 33 participants, aged 20 to 70, from 11 countries, streamed three opera clips encoded in 5 video and 3 audio qualities
- Viewers assed video & audio qualities and level of enjoyment
- Participants enjoyed higher audio and video qualities using PADA which positively impacted their QoE



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