NEXTWORKS
ENGINEERING FORWARD

FLAME

FACILITY FOR LARGE-SCALE ADAPTIVE MEDIA EXPERIMENTATION

# *Personalised Media Mobility Trial in FLAME Barcelona*

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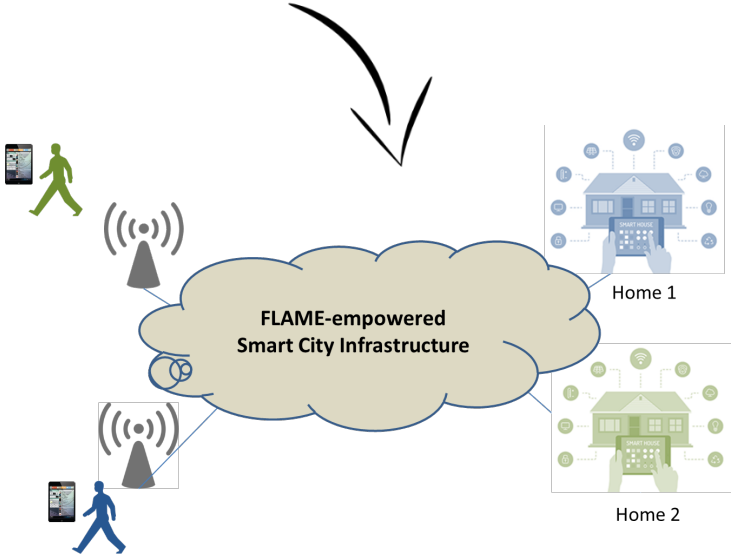
**"BRINGING MEDIA AND TELCO TOGETHER IN THE 5G VALUE CHAIN"**

*Virtual Event, 23 Sept. 2019*

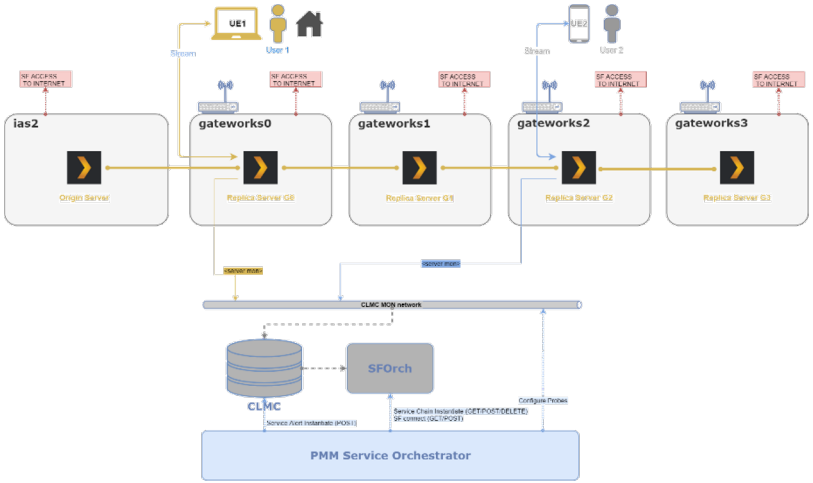
# Trialling a  new Media Experience in Smart Cities

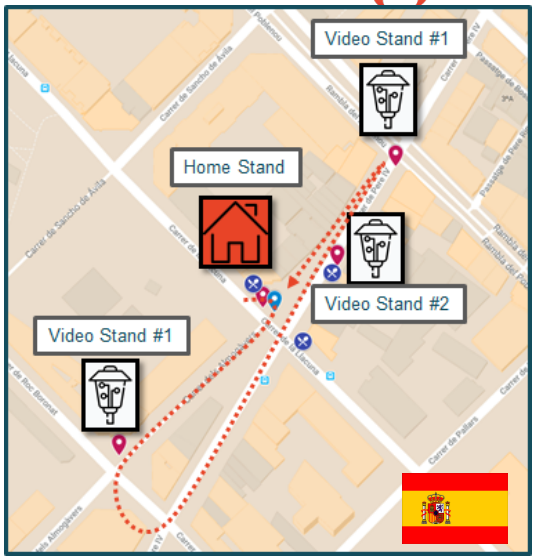
- There is a lack of solutions for users to access personal videos (digital content from home) *anytime, anywhere they want*
- “My screen follows me” **with FLAME Personalised Media Mobility in Urban Environments**
    - My screen follows me from home to my smart hand-held devices and media consumption continues while walking in the Smart City covered by FLAME



# Personalized Media Mobility Trial in FLAME

- Trial with 12 external users moving around the FLAME Barcelona replica
- The deployment automatically scales geographically with demand

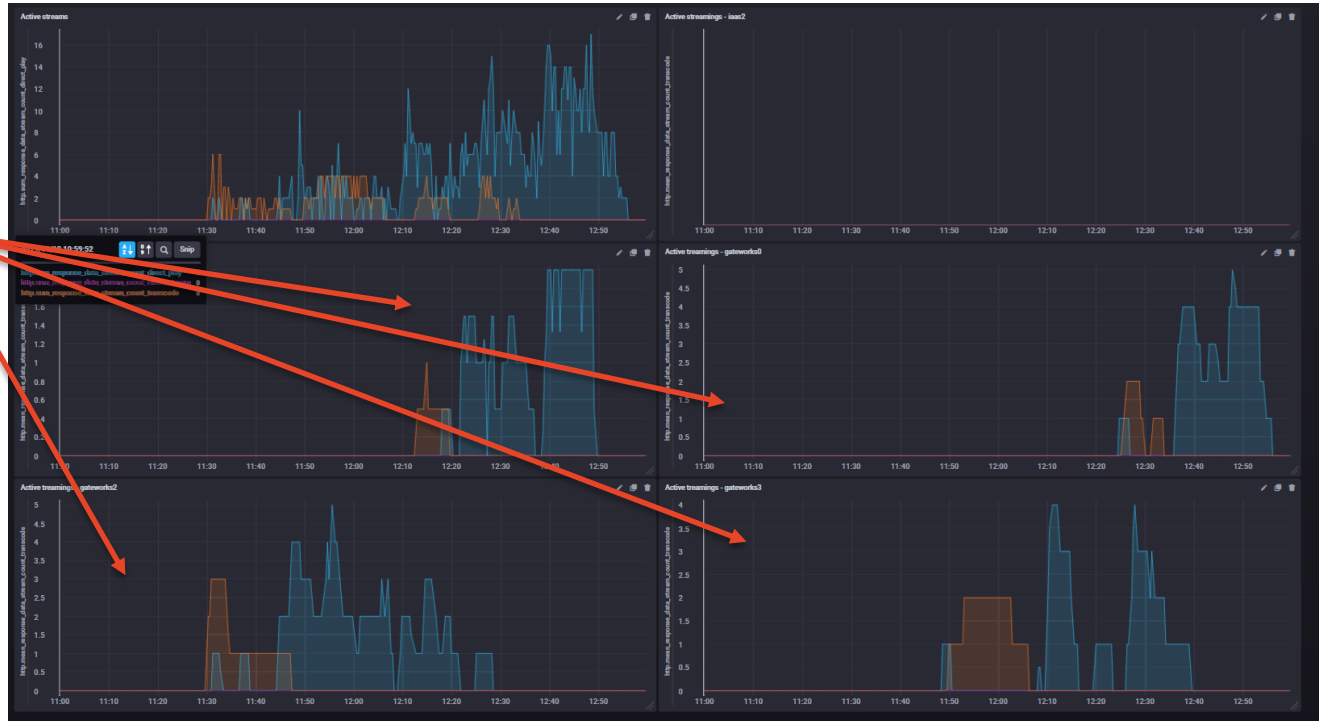



- Measure QoE parameters for video quality as recorded on the UEs

# Personalized Media Mobility Trial: Results

Replica server

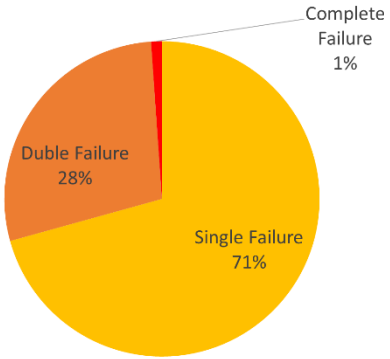



- Various streams activated on the different replica serves with direct streaming (blue lines) and transcoding (orange lines)

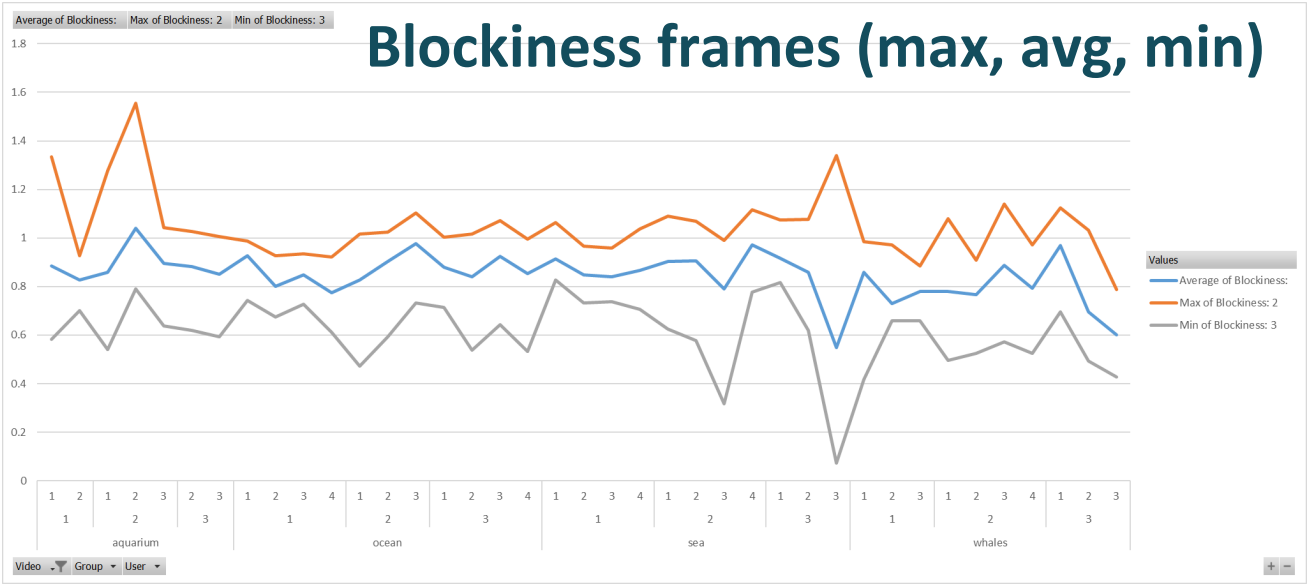
# Personalized Media Mobility Trial: Results (2)

- QoE analysis of the captured videos

## Corrupted frames




## Blockiness frames (max, avg, min)



# Personalized Media Mobility Trial: Insights

- ☺ FLAME offers an easy and intuitive mechanisms for designing and deploying **service function chains**
- ☺ **Policies and alerts** are intuitive and it is clear that they could extend to a city-wide context
- ☺ FLAME trial allowed to find some **actual dimensioning data for media servers** to be adopted for a PMM service

- ☹ Limited evaluation *of experiment scalability* to the entire Smart City due to limited available computing resources in the trial
- ☹ Delivered *QoE was not good* enough for consumer acceptance. This resulted from the small sized resources at the edge

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# THANK YOU

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