

# 1. VR / AR Market



#### 5G as a Driver of AR / VR

High coverage and latency are critical for AR and VR applications

The carrier serviceable addressable market (SAM) opportunity in AR/VR by 2025 is expected to reach more than \$93 billion, 30% of the total value of AR & VR opportunities.

Content and platform revenue depend greatly on service launches, content agreements, and activity within the space – some mobile operators have begun activity across both the content and platform segments for VR and AR.

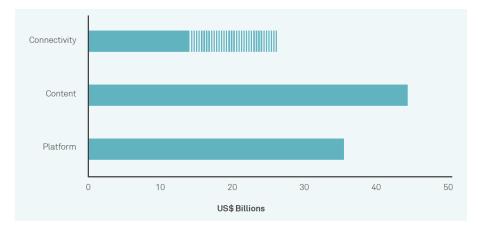


Chart 5: Carrier Addressable Opportunity in AR/VR World Market, 2025 (Source: Wireless X Labs, ABI Research)

5G potentially offers a number attractive features, particularly high reliability and stability along with greater security in connectivity

# 2. AR/VR Perspectives



## 5G

#### Emergence and Rise of Cloud XR

Cloud XR (AR/VR/MR) is the key for immersive businesses:

<u>Processing Power will be transferred in the Cloud instead of hardware computers or headsets</u> = <u>smaller and cheaper headsets</u>

Hardware prices and technology will not be a hurdle anymore: MOBILE EDGE COMPUTING



To reach its full market potential several key milestones must be satisfied:

5G is one such key enabler, enabling Cloud AR/VR to help solve device and cost constraints pressuring AR & VR

# 3. Orange VR Experience



## Orange VR Experience

Paving the way for VR portal content











Premium Live 360° events







Objective : offer premium VR content in streaming from big studios and independent rising talents























#### Orange 2D TV services

Objective: Promote TV services, be ready for mass market VR usages

- Test of different features:
- → Social interactions in the Cinema room
- → Advertising in a VR environment





## A New Partnership: Iconic Engine

Expand the scope of possibilities

Since January 2019, OVRXP has changed its "back office" platform partner, already chosen by Telcos



#### Streaming of the contents:

Heavy downloads and weight curbed the growth of the application.

With Iconic Engine all the 360 experiences are now streamed

#### Augmented Reality:

Our new platform is now AR compatible. AR is essential and will take a big part of the market.

We will be able to implement AR Contents on the platform

# 4. Orange VR Experience Evolution



# Concert Hyphen Hyphen 360

#### CONCERT LIVE VR

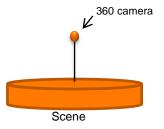
On January 23th, Orange Content organized a concert live in VR.
The band Hyphen Hyphen made a 30 min private show case.
It was live on the app Orange VR Experience and in 9 Orange Stores in France
The live was made for VR with a

the experience is now available on IOS, Android and Oculus during 1 year.

camera 360° in the middle of the

scene.





### OVRXP possible evolutions

#### Develop an Orange VR Experience Magic Leap version?

- AR contents
- TV 2D



- Be on the top of techno
- Be ready for AR revolution

# Develop long term new services?

- Add a 2D TV live (TV d'Orange) in the app to complete the access of TV 2D replay
- add social interaction between users of the app



- Expand 2D TV services
- Build stronger relation with the users

# Live VR streaming event?





#### Focus on "Immersive Live Event" use case

Sport / Concert events



#### Product development strategy





**CMS** Encoding

FoV\*

CDN

Social

4K/8K Streaming over 5G

Orange customers to enjoy a premium experience



- At specific locations (shops, fan zone...) or at home
- On VR headset and smartphone/tablets
- Live or replay on-demand



Orange

VR experience









App



