
AWS
re:Invent
NOV. 28 – DEC. 2, 2022 | LAS VEGAS, NV

HYB002

Experience high-end VR content on any device with AWS Local Zones

Robert Belson

Developer Advocate
AWS

© 2022, Amazon Web Services, Inc. or its affiliates. All rights reserved.

Region and number of Availability Zones (AZs)



Announced Regions: **5** Regions and 15 more AZs in Australia, Canada, Israel, Australia, Switzerland, and Thailand

© 2022, Amazon Web Services, Inc. or its affiliates.

Why Local Zones?

© 2022, Amazon Web Services, Inc. or its affiliates. All rights reserved.

Unique challenges for some customers

Challenges



Low-latency workloads



Modernization initiatives



Data residency

Solutions today



Self-managed

Complex

Costly

Customer feedback

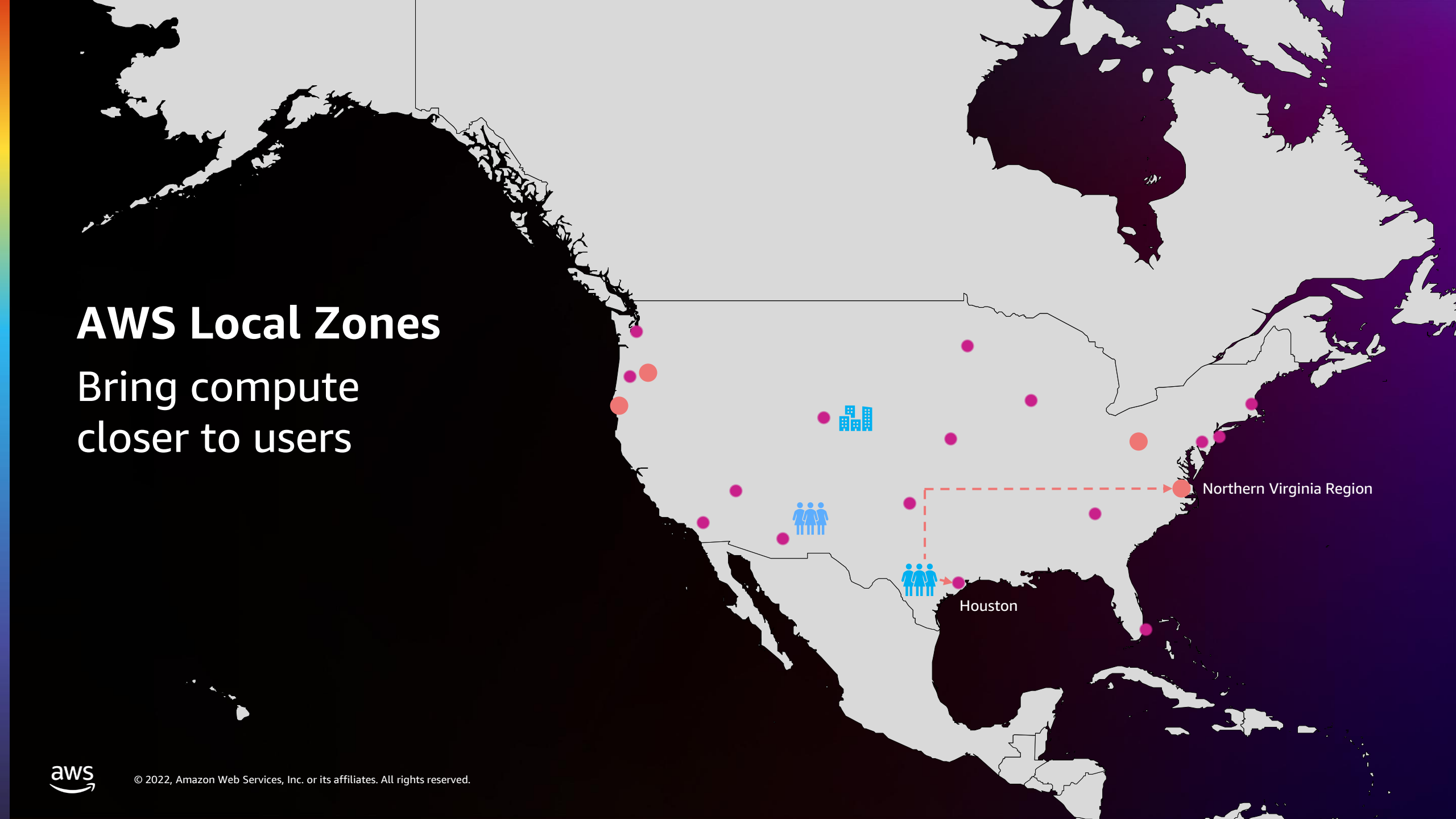


AWS services even closer to end users or data sources

© 2022, Amazon Web Services, Inc. or its affiliates. All rights reserved.

AWS Local Zones

Bring compute
closer to users



© 2022, Amazon Web Services, Inc. or its affiliates. All rights reserved.

AWS Local Zones



Meet latency, local data processing, and data residency* requirements in more locations, without deploying self-managed infrastructure

AWS deployed and operated infrastructure in large metro centers

Elastic, on-demand resources, with pay-as-you-go pricing

Same AWS core services and developer experience

Integrated with Region services through the AWS backbone

© 2022, Amazon Web Services, Inc. or its affiliates. All rights reserved.

Where are Local Zones?

© 2022, Amazon Web Services, Inc. or its affiliates. All rights reserved.

34 New Local Zones generally available starting 2022

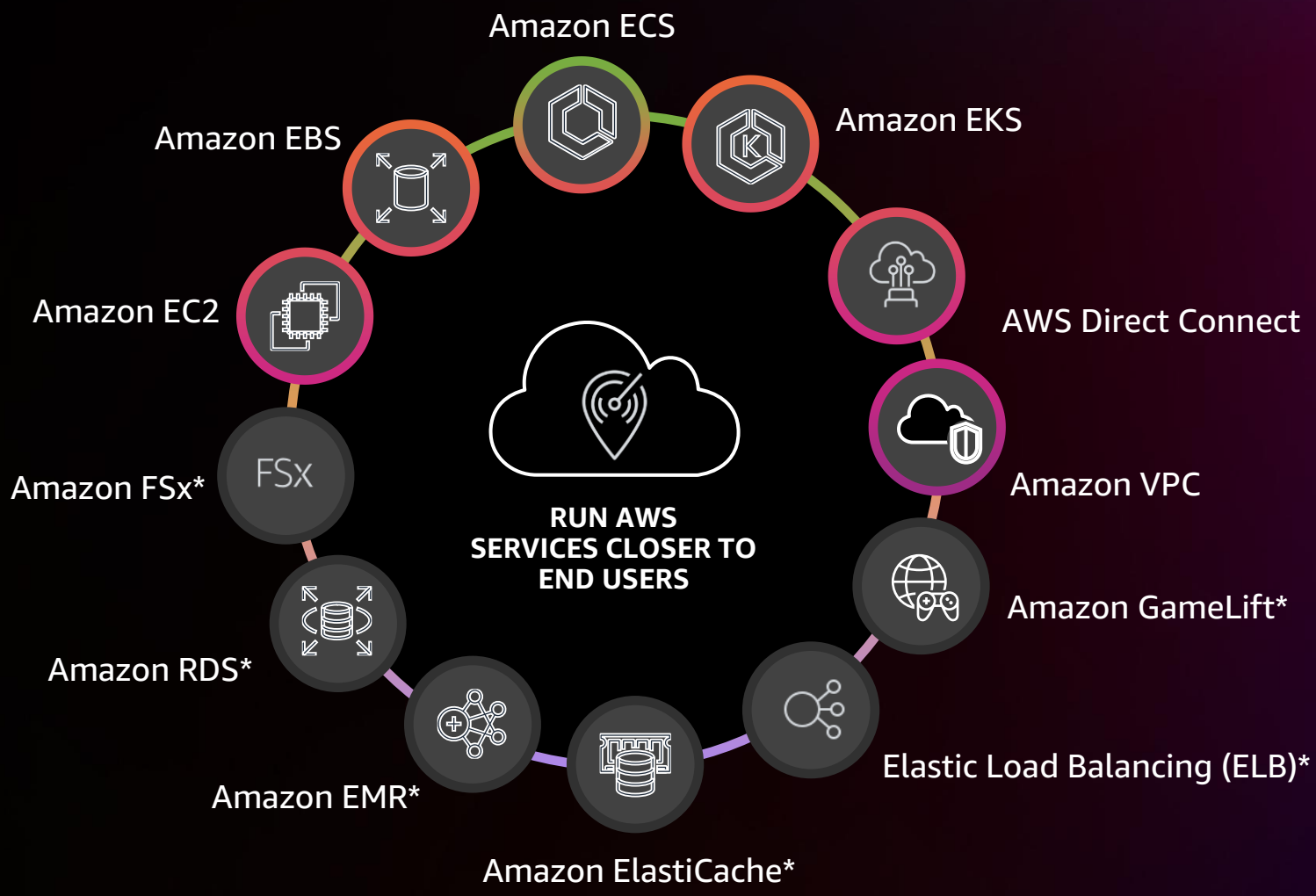


© 2022, Amazon Web Services, Inc. or its affiliates.

Services available in Local Zones

© 2022, Amazon Web Services, Inc. or its affiliates. All rights reserved.

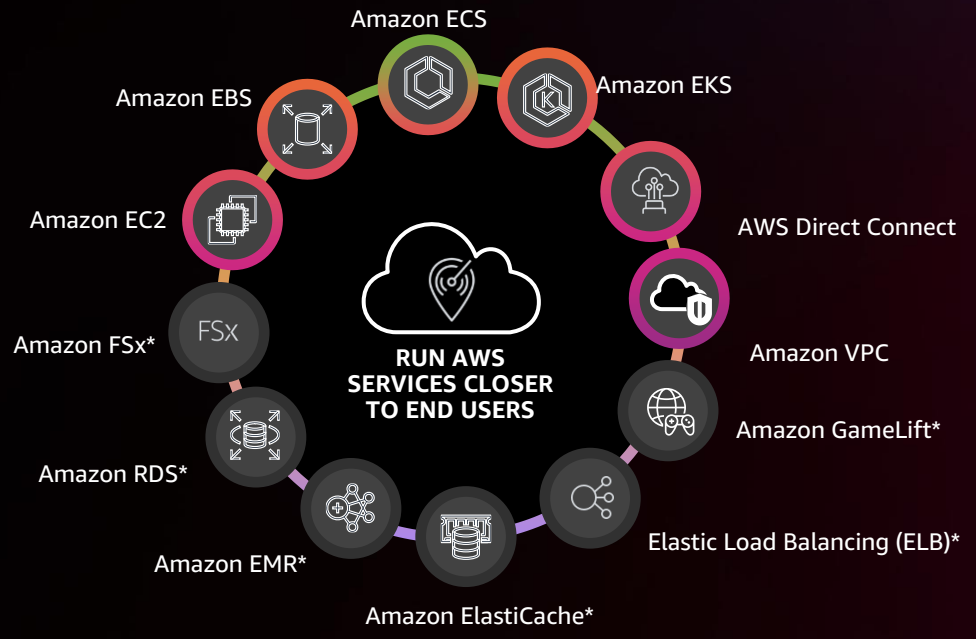
Services available in Local Zones



© 2022, Amazon Web Services, Inc. or its affiliates. All rights reserved.

* Some services only available in select Local Zones

Regional services fully integrated



AWS CloudTrail

AWS CloudFormation

Amazon EC2 Auto Scaling

Amazon CloudWatch

Amazon S3

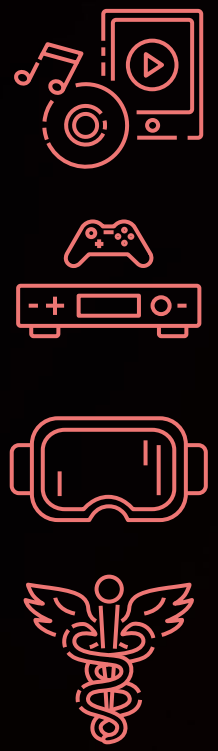
Amazon DynamoDB

© 2022, Amazon Web Services, Inc. or its affiliates. All rights reserved.

Use cases

© 2022, Amazon Web Services, Inc. or its affiliates. All rights reserved.

Use cases



Latency-based

Improved performance for end users

- Gaming
- Social media
- Telecommunications

Location-based

Data residency

- Financial services
- Public sector

Enterprise migration and modernization

- Hybrid cloud migrations
- Modernization and innovation initiatives

aws

© 2022, Amazon Web Services, Inc. or its affiliates. All rights reserved.

Use case: Streaming 8K video on Local Zones

© 2022, Amazon Web Services, Inc. or its affiliates. All rights reserved.

Introducing Odience: 8K Streaming at-scale

Industry trends

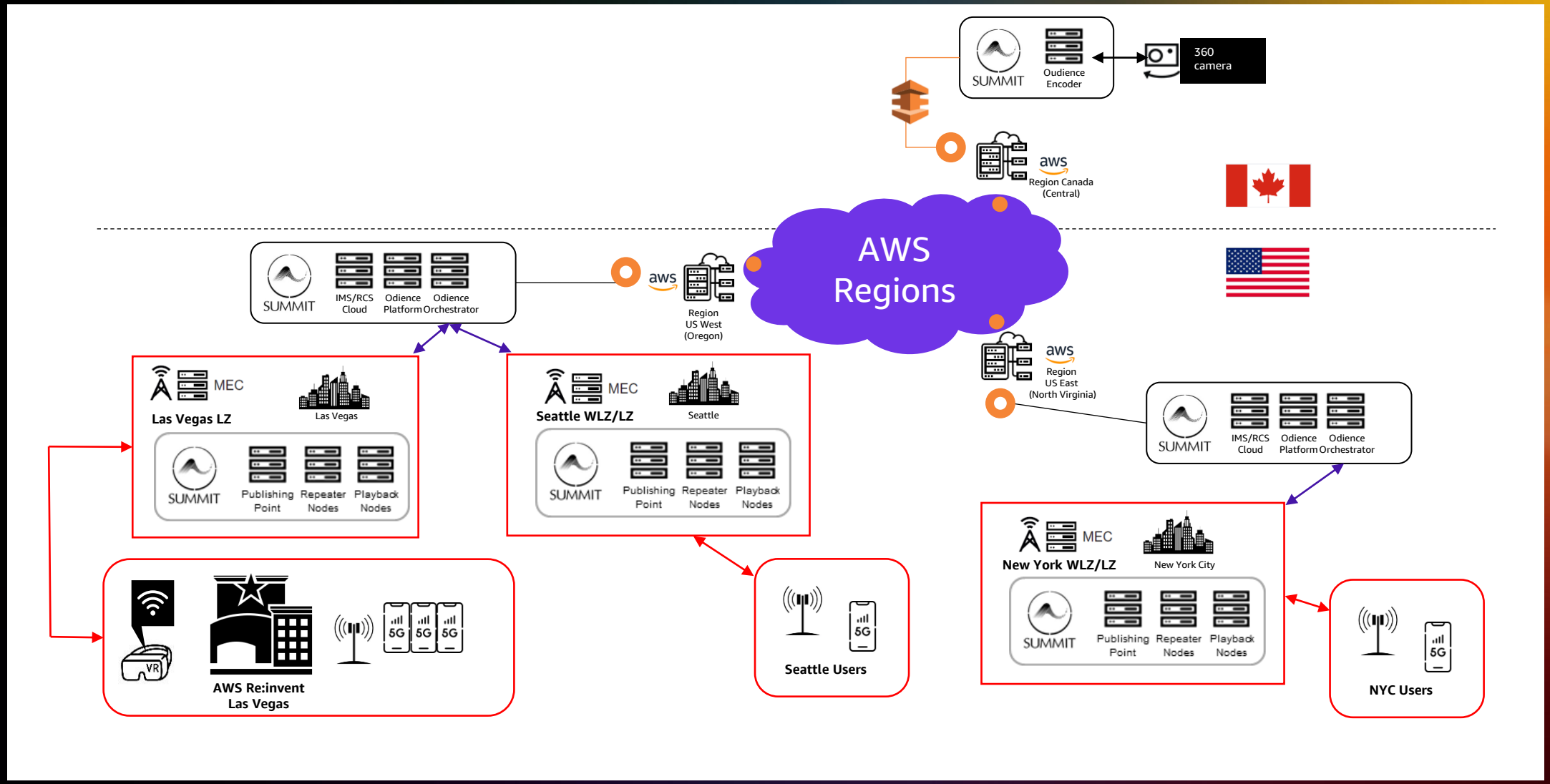
- Users demand more immersive and personalized content streaming experiences
- WFH has further normalized virtual experiences
- Low-latency, jitter-less experiences is a must

What if?

- **For Content Creators:** frictionless, cost-effective 8K streaming platform to reach and monetize broader audience
- **For Streamers:** Experience the “front-row” of event from comfort of home (or on-the-go)

aws
© 2022, Amazon Web Services, Inc. or its affiliates. All rights reserved.

AWS Regions and Local Zones



© 2022, Amazon Web Services, Inc. or its affiliates. All rights reserved.

Odience: Built for Edge Computing

Cloud-based immersive streaming with ultra-low-latency and bandwidth reduction of up to 80% for live 8K 360 video streams.



- **Edge Features:**
  - Low Latency for sub 30 ms Motion Photon delay
  - Local Zone capable, including application mobility between zones
  - Live 8K/4K Streaming from portable consumer-grade cameras
- **Odience Advantages:**
  - Cloud edge processing enables hyper-personalized streams with interactivity and AI
  - Reduced content distribution costs compared to traditional methods
  - Real-time interaction: 8K Live Streaming with sub-1.1 second glass-to-glass latency (4K sub-400ms)
  - Up to 80% savings in bandwidth efficiency for equivalent quality, reducing network load and users' mobile data usage
  - Gives content creators access to instant on-demand scale from 1 user to 100 million users
  - Significant improvements in device battery life

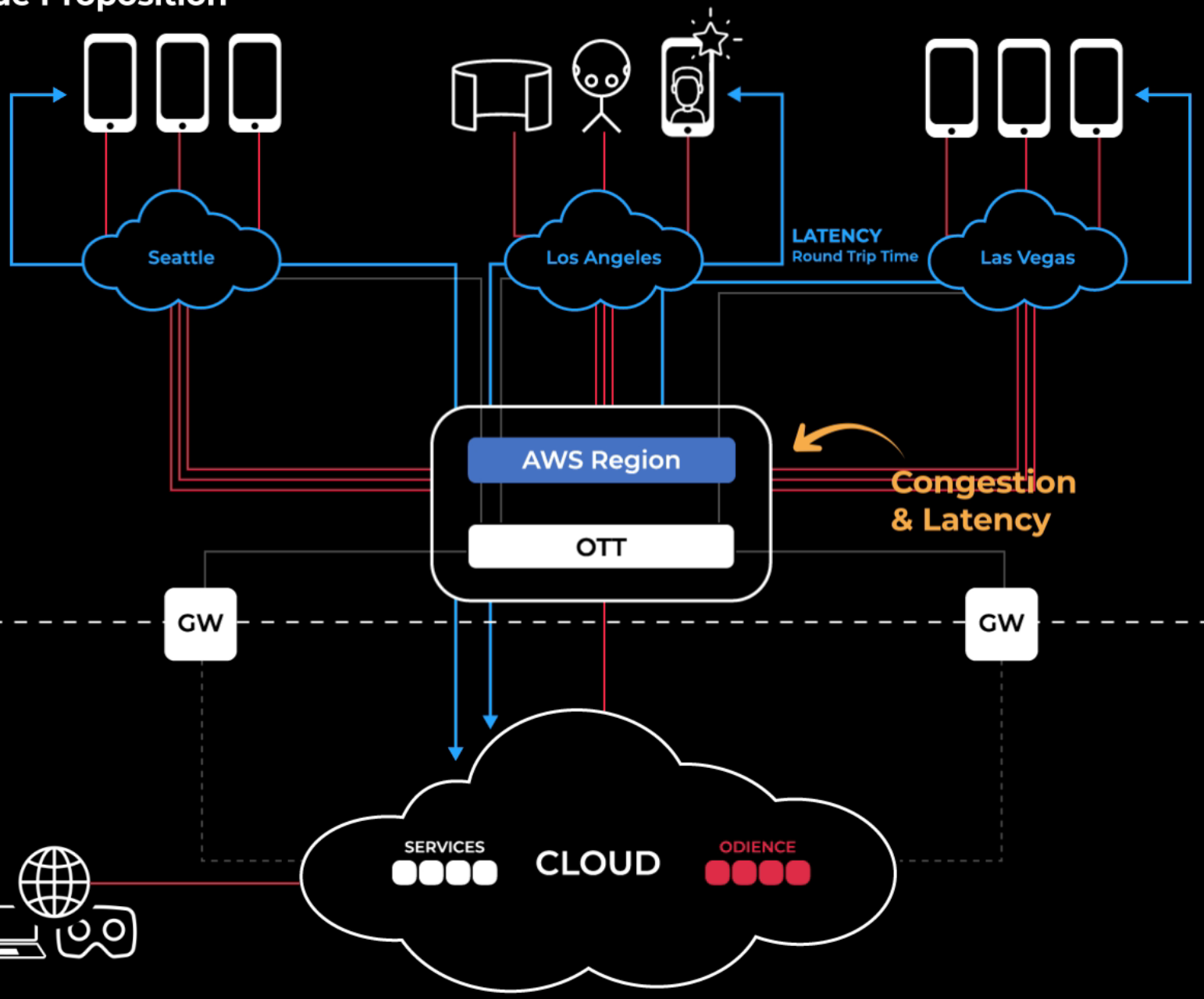
© 2022, Amazon Web Services, Inc. or its affiliates. All rights reserved.

Odience MEC Value Proposition

Without Local Zones

SUMMIT

© Summit Tech - Confidential and Proprietary



ODIENCE
www.odience.com

Odience Platform on Local Zones

© 2022, Amazon Web Services, Inc. or its affiliates. All rights reserved.

Thank you!

Robert Belson
rbelson@amazon.com



Please complete the session survey in the **mobile app**

© 2022, Amazon Web Services, Inc. or its affiliates. All rights reserved.