

Qualcomm

New XR Technologies Overview

Ophir Paz

Senior Research Engineer
Qualcomm Technologies, Inc. (QTI)





2D





2D



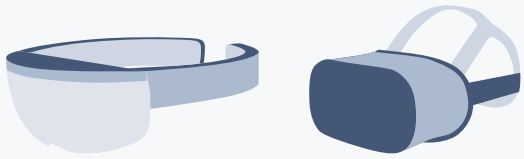
Spatial



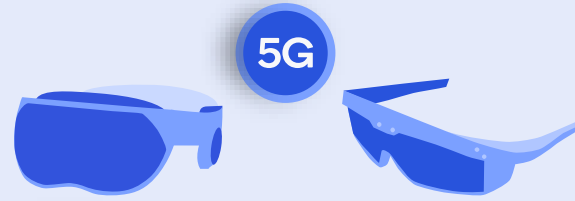
The screen disappears and the world becomes your home screen

XR devices evolution

Standalone
VR and AR



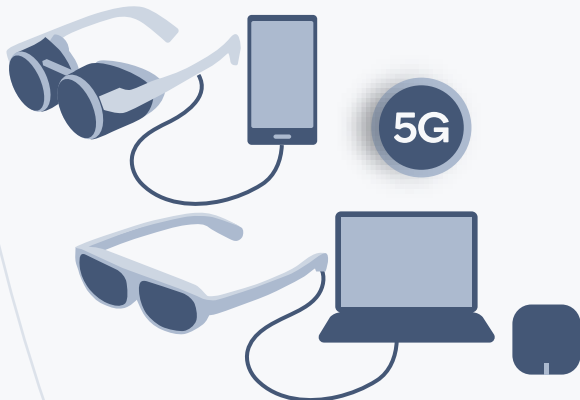
Standalone
VR and AR



○ Today

○ 1 - 3 years

Viewer
VR & AR
cabled



Viewer
VR & AR
wireless



5G



5 - 10 years

Leading wireless innovation for more than 35 years

Digitized mobile communications



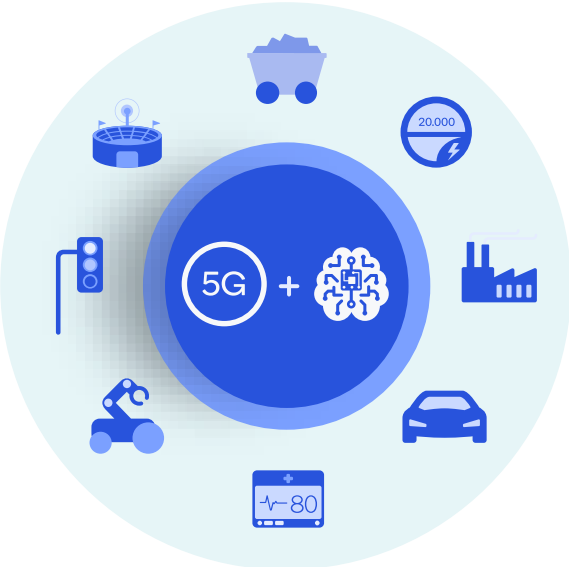
Analog to digital

Redefined computing



Desktop to smartphones

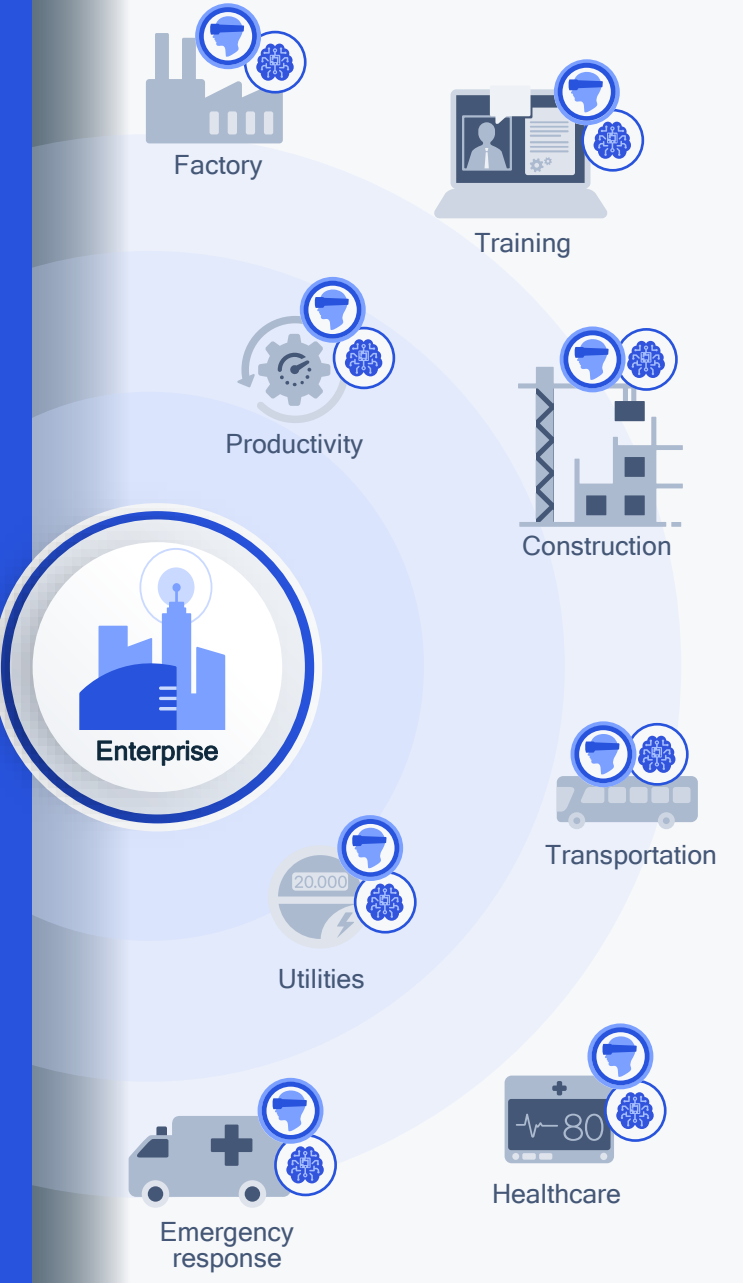
Transforming industries



Connecting virtually everything



The age of 5G, AI and XR



Qualcomm
snapdragon

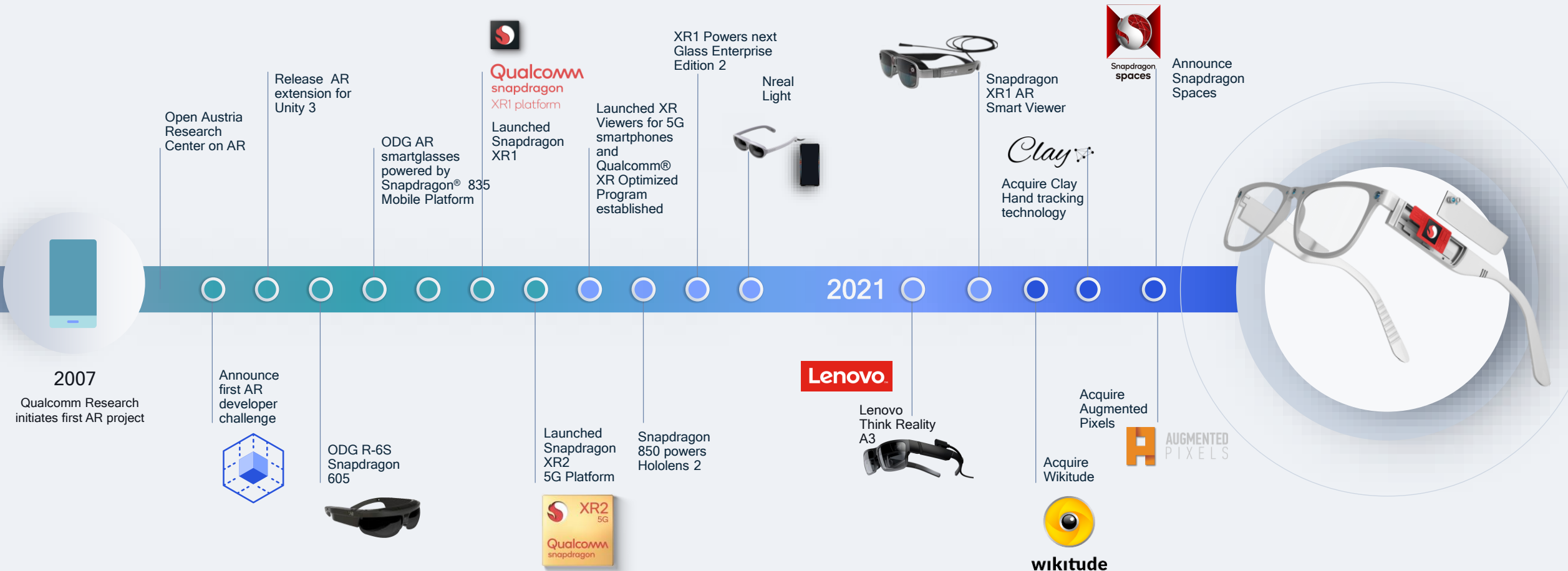


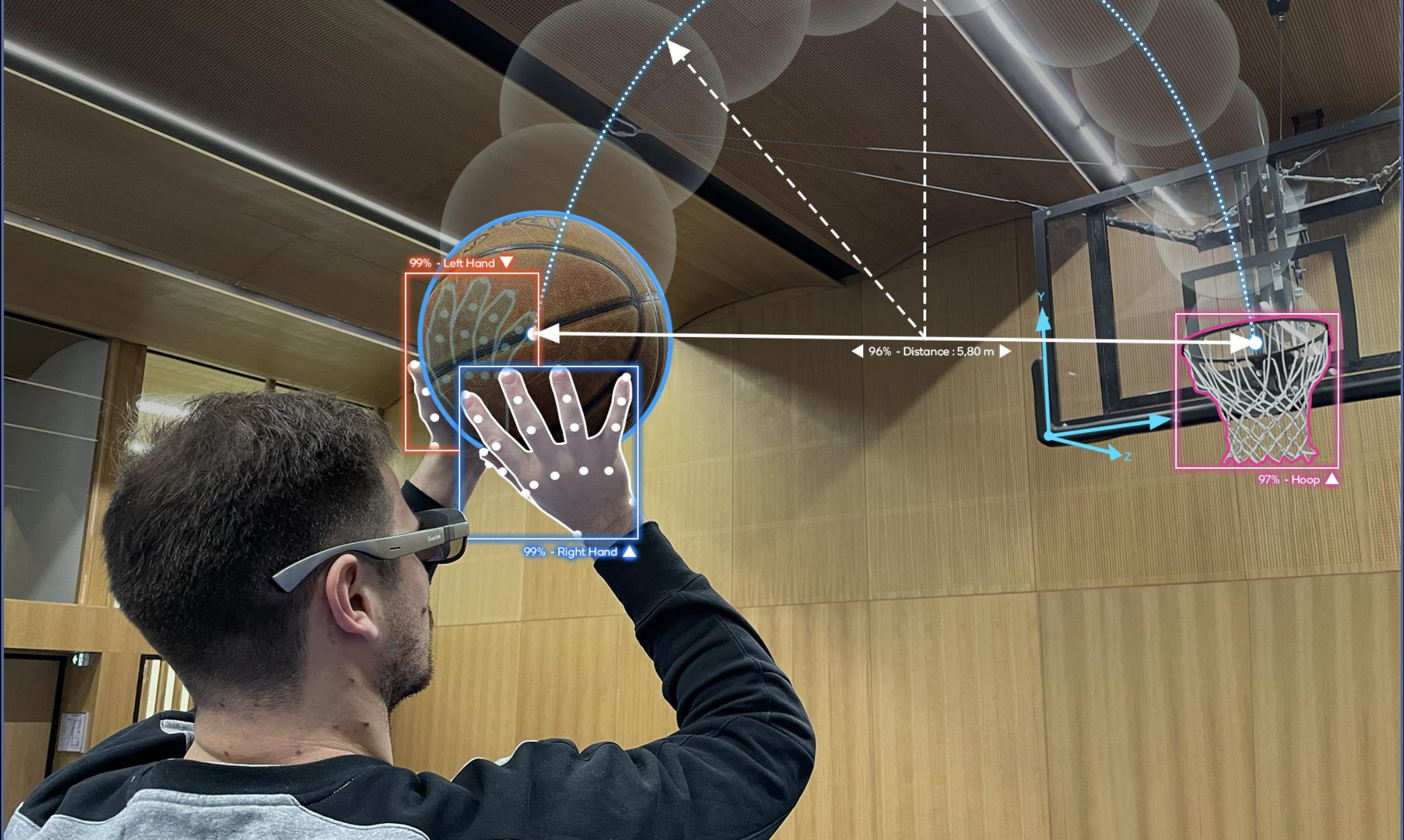
Connecting virtually everything

Driving smarter experiences

Powering an XR world

A decade of cutting-edge XR R&D

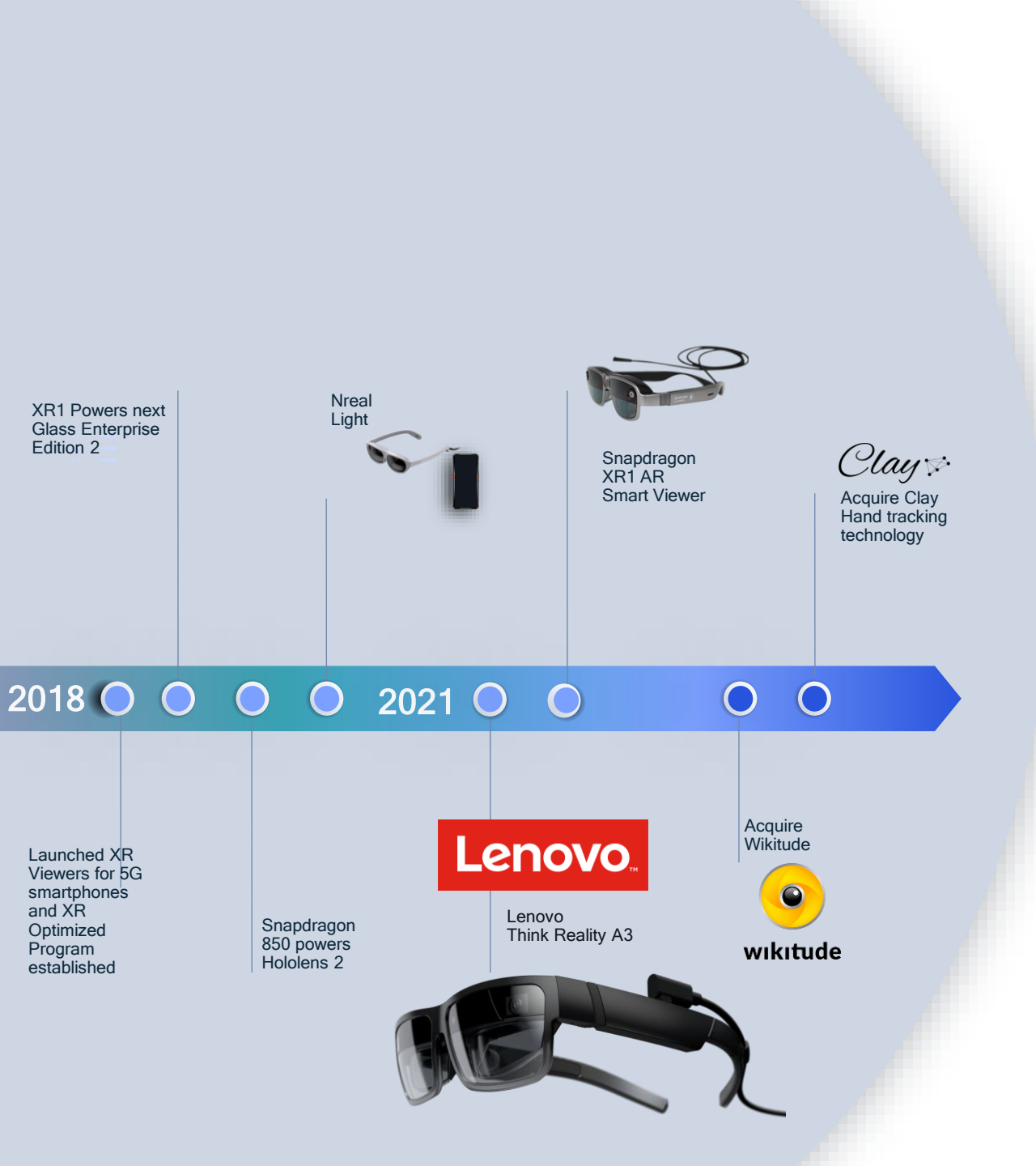




New tech as...

HW SW Features





Accelerating Head worn AR

1. Introduced AR viewers as an accessory to phone
2. Introduced AR smart-viewers category
3. Need to go beyond enabling hardware



**Snapdragon
spaces**

A platform for
developers to create
headworn AR
experiences that adapt
to the spaces around us



Hand Tracking



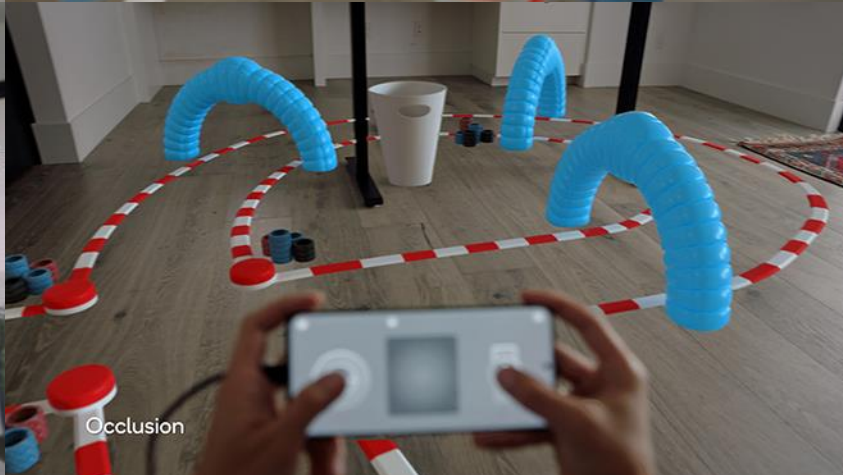
Object Recognition and Tracking



Positional Tracking



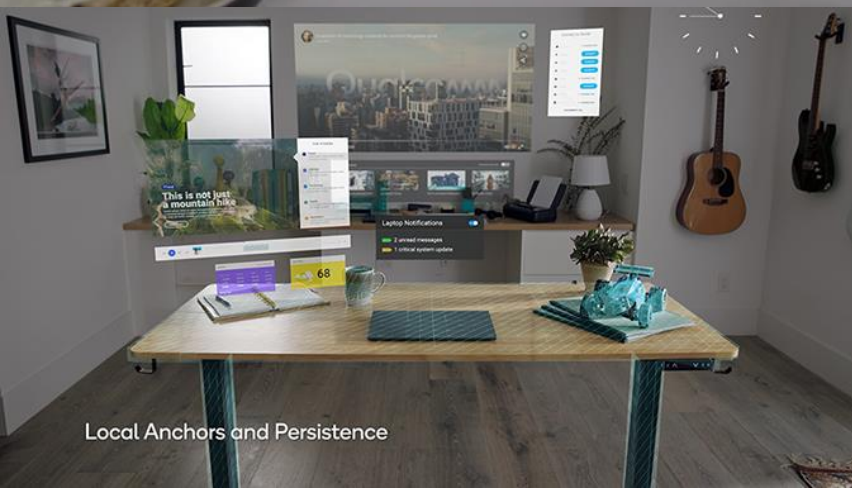
Image Recognition and Tracking



Occlusion



Scene Understanding



Local Anchors and Persistence



Plane Detection



Spatial Mapping and Meshing



Snapdragon
spaces



Positional
Tracking



Local Anchors
& Persistence



Image Recognition
& Tracking



Object Recognition
& Tracking

Technology and Innovation



Plane
Detection



Hand
tracking



Spatial Mapping
& Meshing



Occlusion



Scene
Understanding



Open, cross-device
AR ecosystem



Pathfinder

Developer-first
Platform



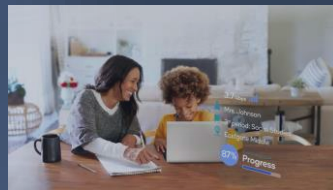


Snapdragon
spaces



Our technologies are the ticket to the metaverse

Optimized high-performance,
low-power hardware, perception algorithms
and software platforms



Thank you

Qualcomm

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