Government Field Inspection

Empowering Mixed Reality

John Mathieu
Director, Business Development
One Commercial Partner Organization

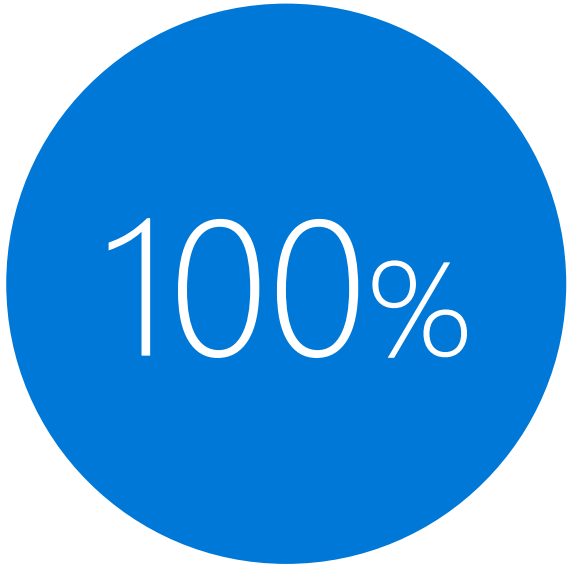
Microsoft

“Mixed Reality is one of the most magical technologies of these times.”

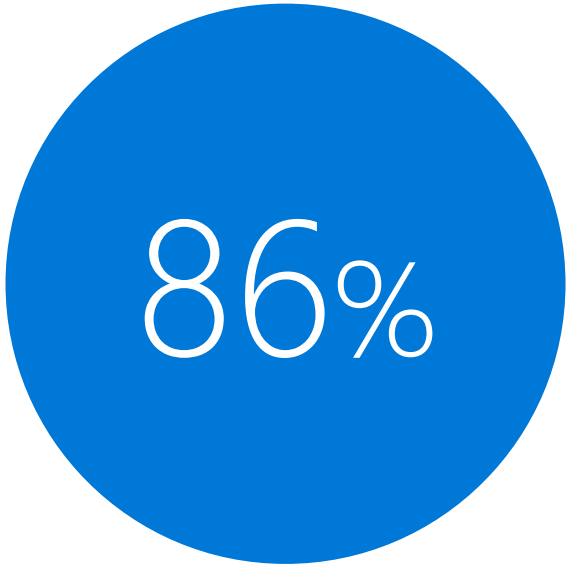
Satya Nadella – September, 2016

Digital transformation is happening, fast

Virtually every Forbes Global 2000 company is on some sort of digital transformation journey.



Of CEOs cite rapid pace of technological change as the top challenge facing their companies.*



Of executives anticipate that the pace of technology change will increase rapidly over the next three years.**

*Fortune 500 CEO survey
**Accenture Technology Vision 2016 Survey

The opportunity is now

New challenges and reality

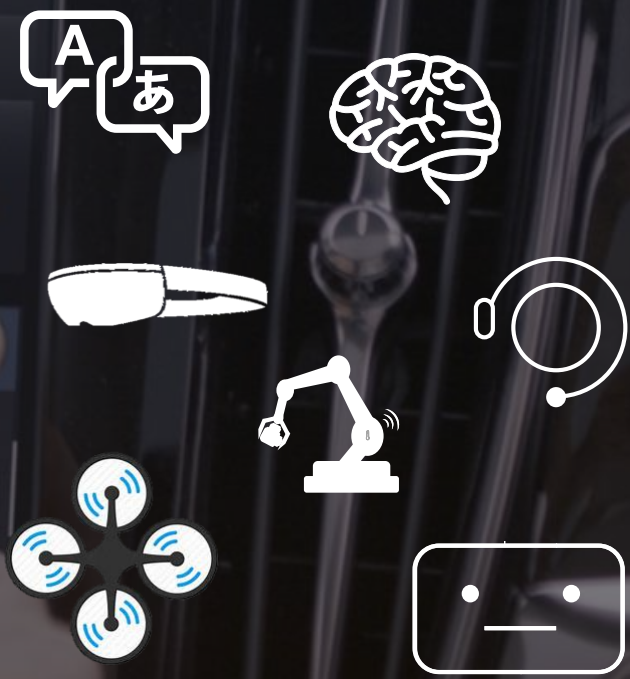
Closer collaboration with businesses for better service.

Recruiting and retaining next generation of government workers.

Digitizing labor intensive, paper-based processes.

Digital is transforming the nature of processes.

Omnipresent technology

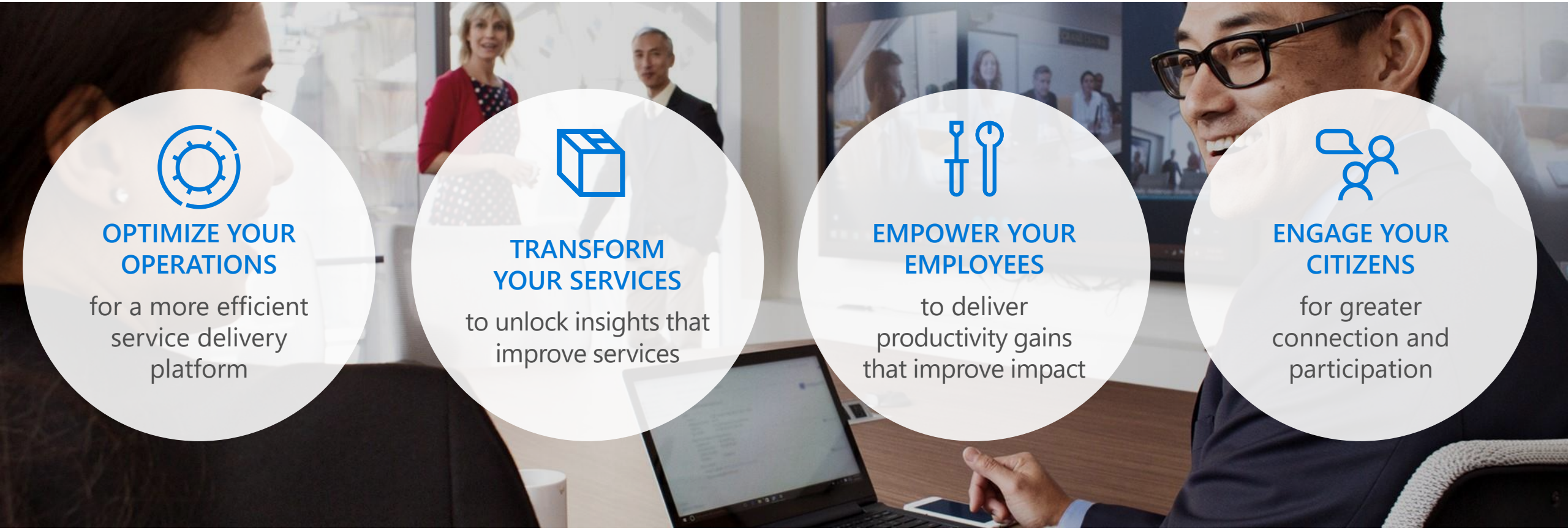


Technology is shaping business and society on a global scale.

"To be efficient and effective in today's complex, interlinked and fast-changing environment, governments need to redesign their structures and processes to capitalize on a new set of actors and tools,"

World Economic Forum
Future of Government Report

Digital transformation is essential to advance the mission of government



OPTIMIZE YOUR OPERATIONS

for a more efficient service delivery platform

TRANSFORM YOUR SERVICES

to unlock insights that improve services

EMPOWER YOUR EMPLOYEES

to deliver productivity gains that improve impact

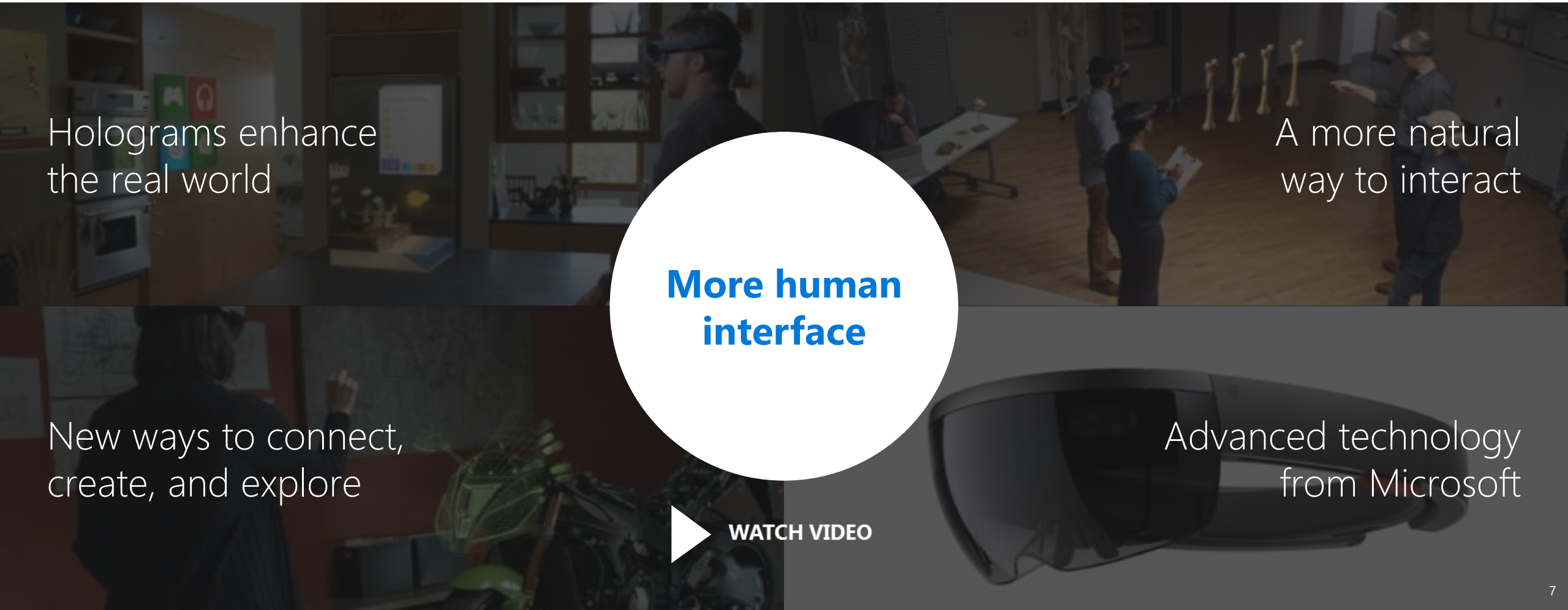
ENGAGE YOUR CITIZENS

for greater connection and participation

Mixed reality offers unique advantages. Across all 4.

What is HoloLens?

Microsoft HoloLens is the first, fully self-contained holographic computer that redefines personal computing and empowers employees and organizations in new ways.



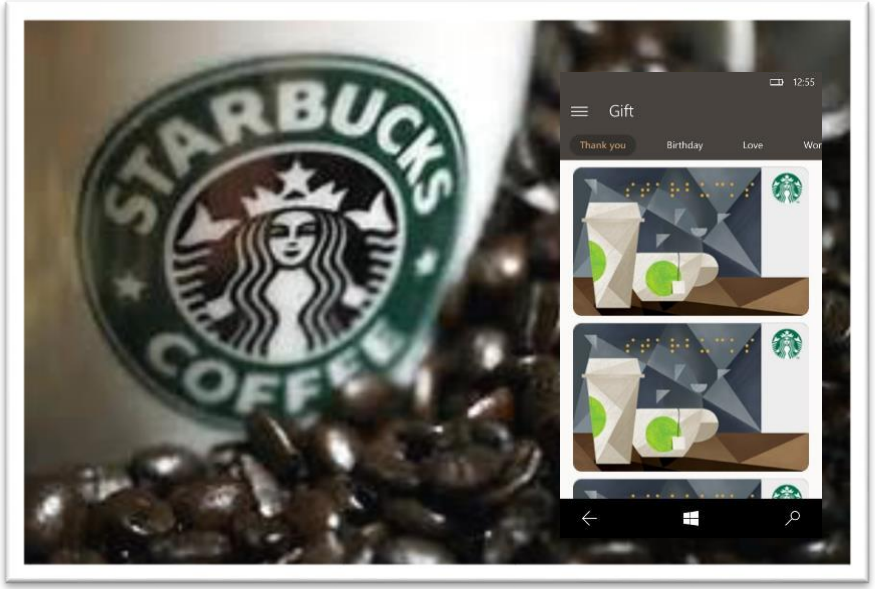
taq
tile

AGENDA

- TAQTILE INTRODUCTION
- HOLOLENS & WINDOWS HOLOGRAPHIC
- TAQTILE HOLOLENS SOLUTIONS FOR GOVERNMENT
- DEMOS + Q&A

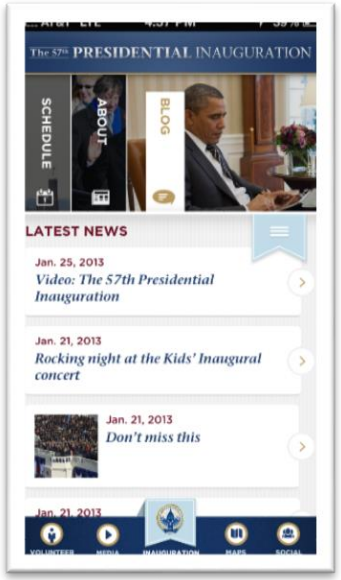
WHAT'S TAQTILE

MOBILE APPS



WHAT WE DO

MOBILE APPS



LOCATION BASED SOLUTIONS

MOBILE APPS

LOCATION BASED SOLUTIONS

MIXED & VIRTUAL REALITY

MIXED & VIRTUAL REALITY

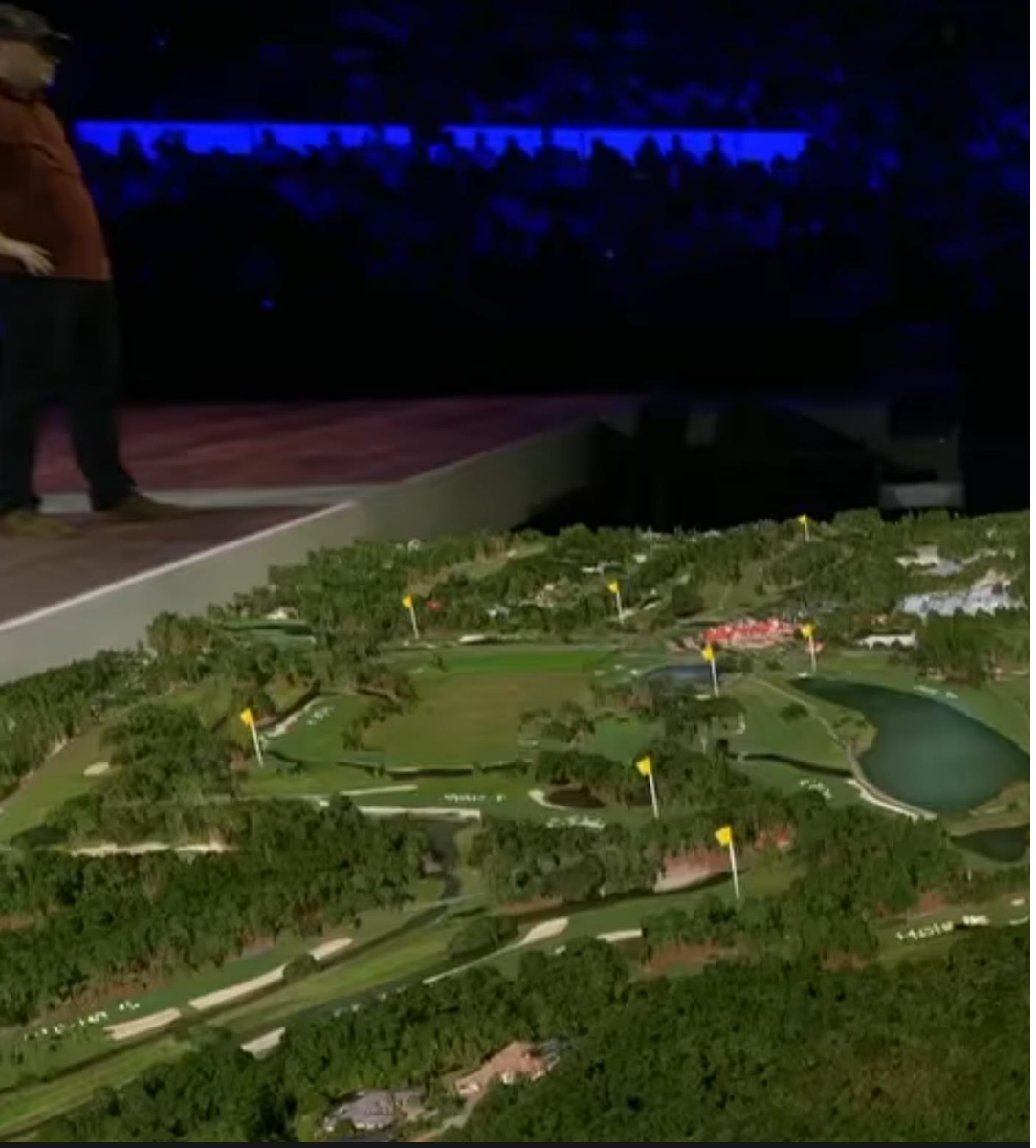
MARKET SEGMENTS

RETAIL / E-TAIL

SPORTS + VENUES

PUBLIC SECTOR + DEFENSE

ENTERPRISE SOLUTIONS



MIXED-REALITY PROJECT EXAMPLES

- HOLOMAPS
- CYLANCE IT SECURITY
- PGA TOUR – TPC SAWGRASS
- MICROSOFT + PGA – PUTTING SIM
- REAL MADRID – CLASSICO
- COMING SOON - MANIFEST

WHAT IS HOLOLENS?

Microsoft HoloLens is the first, fully untethered holographic computer that redefines personal computing and empowers you in new ways.

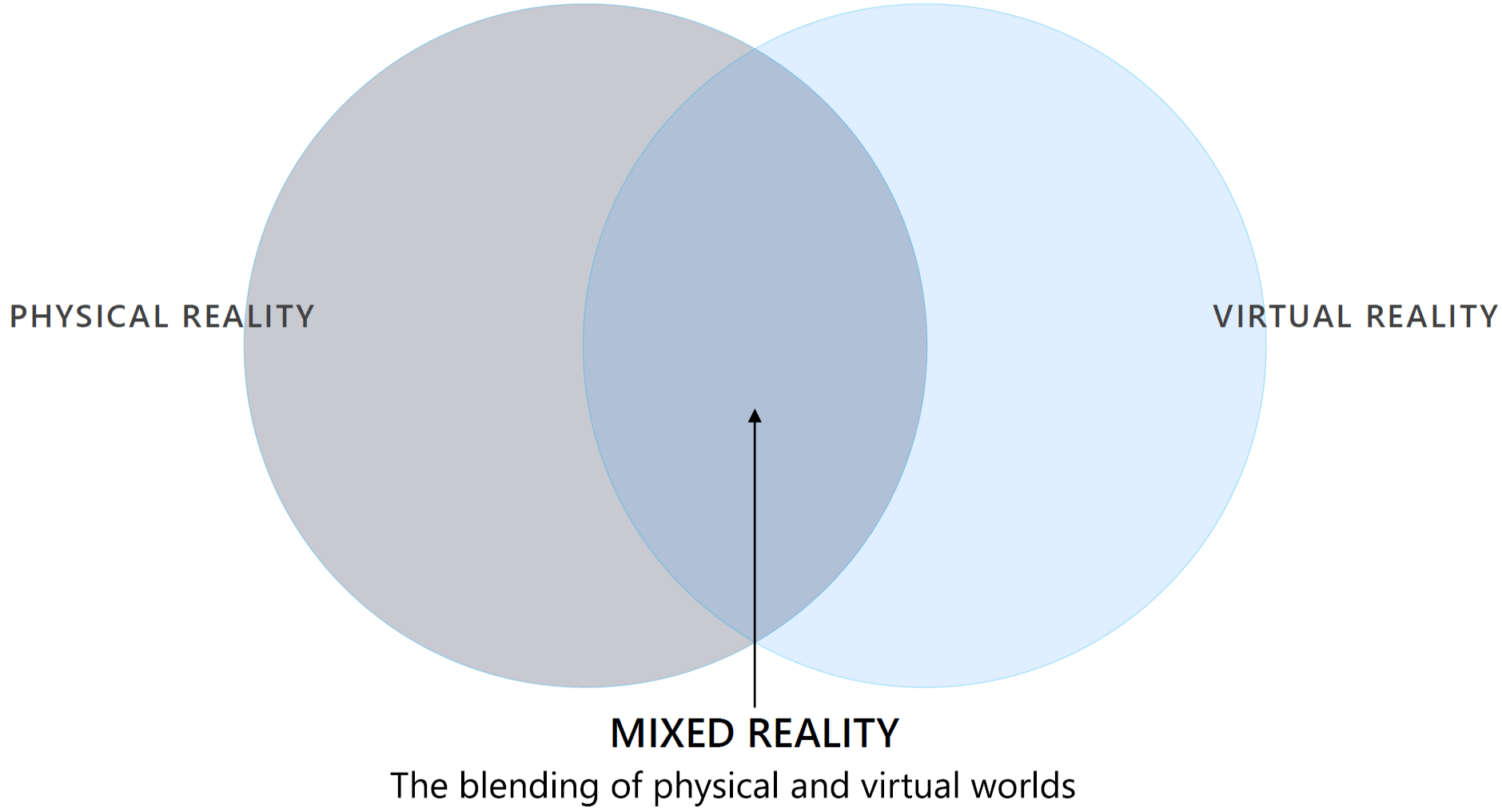
REASONS TO BELIEVE

Holograms enhance the real world

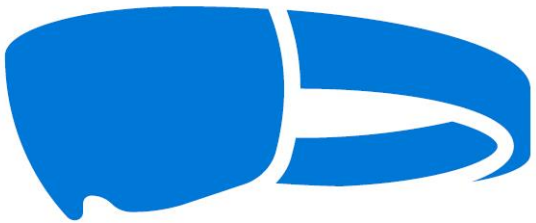
A more natural way to interact

New ways to connect, create, and explore

Advanced technology from Microsoft


PHYSICAL REALITY
VIRTUAL REALITY
MIXED REALITY
The blending of physical and virtual worlds

PHYSICAL REALITY



SEE-THROUGH

MOBILE PERFORMANCE

PORTABLE

DESKTOP PERFORMANCE

TETHERED

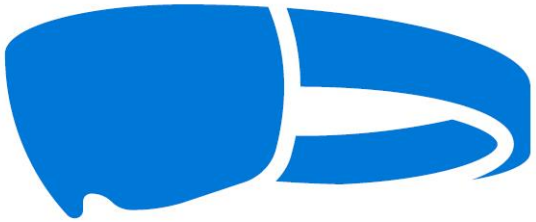
OPAQUE

VIRTUAL REALITY

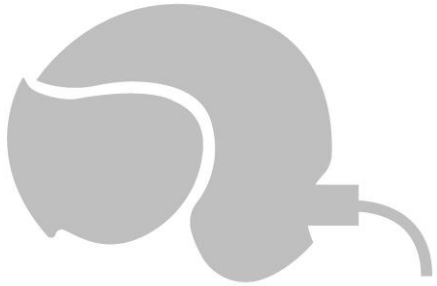
MICROSOFT HOLOLENS SPANS REALITIES

	Augmented Reality	Mixed Reality	Virtual Reality
Augments the real world with helpful information	✓	✓	
Blends holograms with your real world		✓	
Can transport you to a virtual world		✓	✓
Replaces the real world			✓

PHYSICAL REALITY



SEE-THROUGH



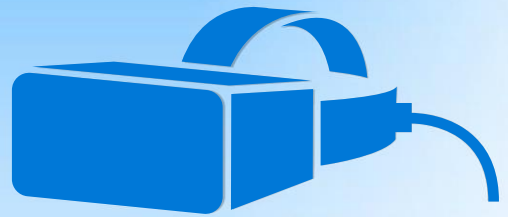
MOBILE PERFORMANCE

PORTABLE

DESKTOP PERFORMANCE

TETHERED

OPAQUE

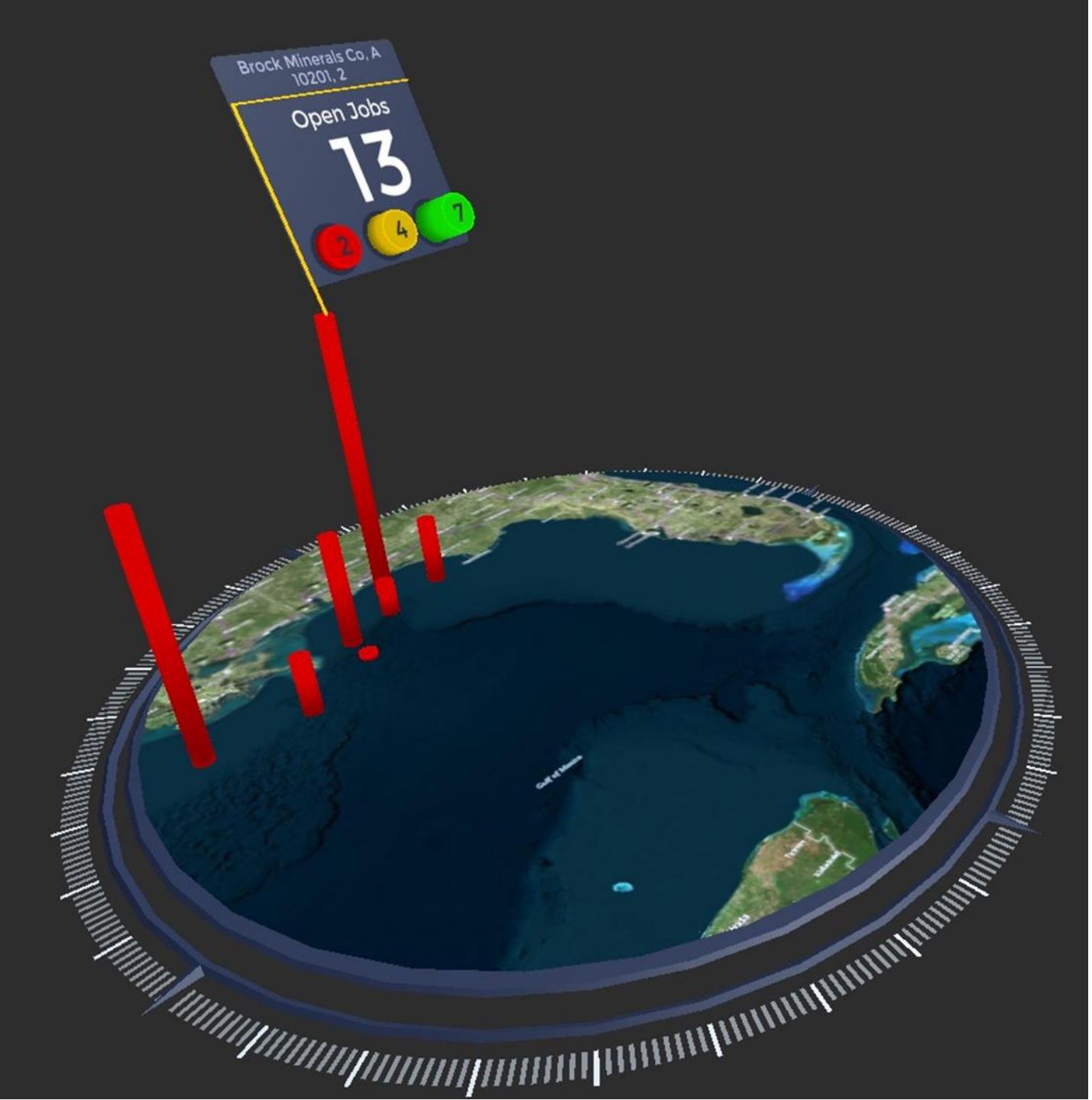


VIRTUAL REALITY

Windows 10
hp
DELL
Lenovo
ASUS
acer

taqtile

MANIFEST



CORE FUNCTIONS OF MANIFEST

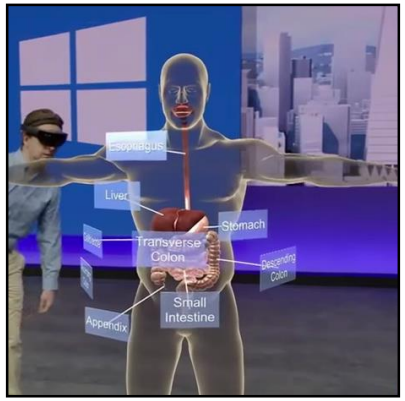
- Field Service Ops, Training and Inspection
- Hands-free Authoring of Content
- 3D Placement of Steps to Complete a Task
- Task / Job Management for Ops
- Full-cycle Inspection /Resolution Workflow
- Management Views on 3D maps
- Flexible Integration Layer (CGI + Dynamics)

MANIFEST USE CASES FOR GOVERNMENT

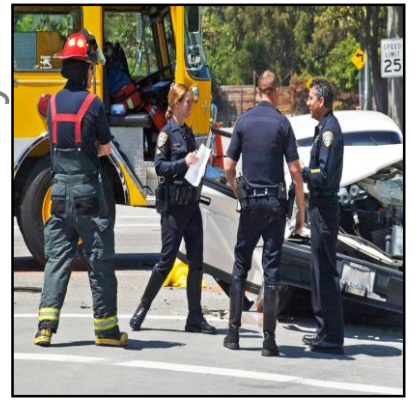
Inspection

Training & Ed

Healthcare



Public Safety



Maintenance

Infrastructure

Construction

Operations

Peace & Justice

INSPECTOR

- SEARCH EQUIPMENT
- PIN LOCATION RELATIVE TO TAG
- ADD NOTES
- ADD REGULATORY REFERENCE (CGI)

AUTHOR

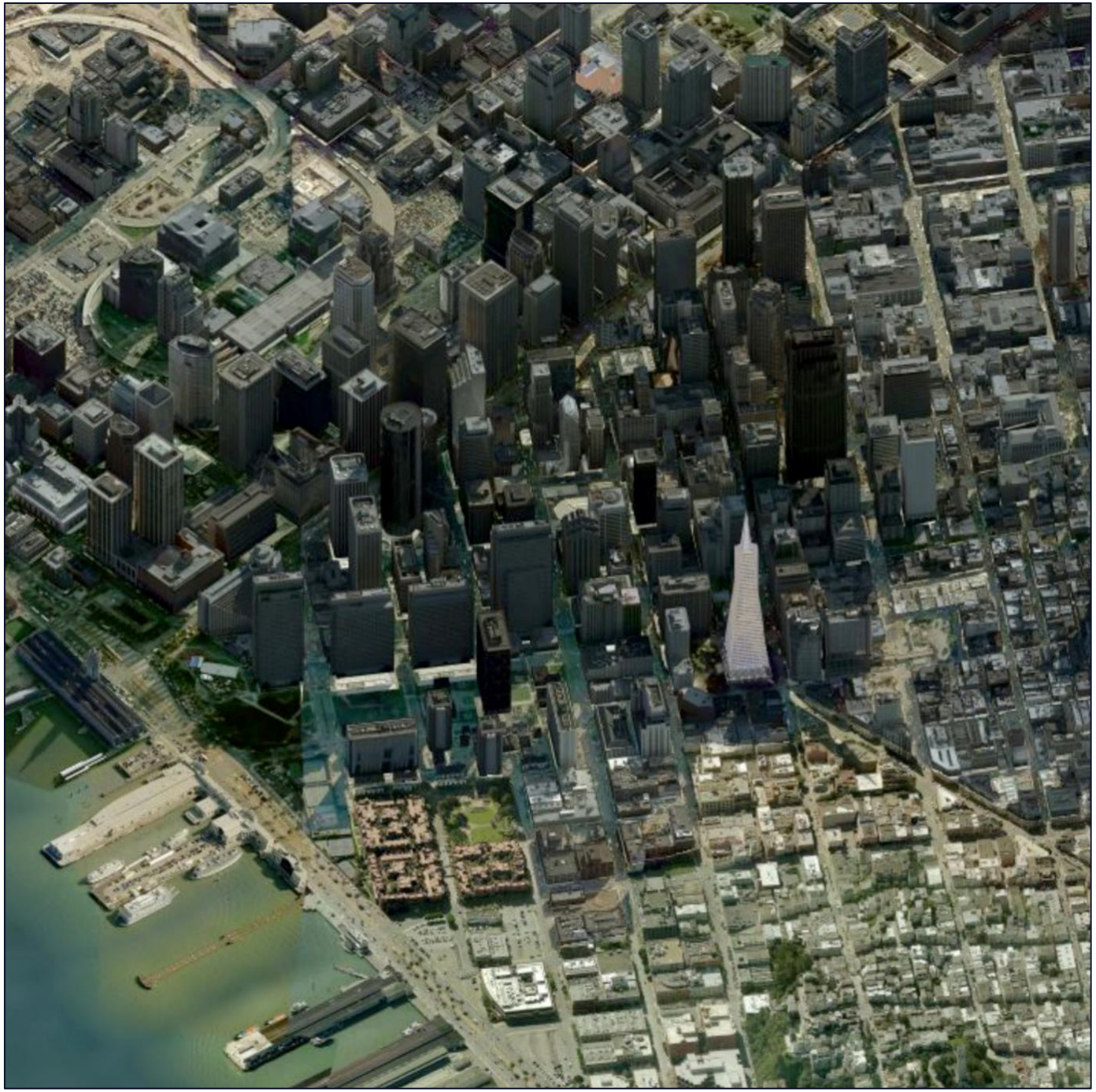
- SEARCH EQUIPMENT
- CREATE A JOB TEMPLATE FOR ASSET CLASS
- TAG STEPS BY TAGGING AREAS ON THE 3D MODEL OR THE PHYSICAL OBJECT

OPERATOR

- VIEW JOB BOARD
- ACCEPT JOBS
- REVIEW EQUIPMENT DATA, HISTORY, TUTORIALS, MODELS
- CREATE JOB FROM EXISTING TEMPLATE

MANAGER

- VIEW DASHBOARD
- VIEW DATA OVERLAYS ON TOP OF MAP VIEW



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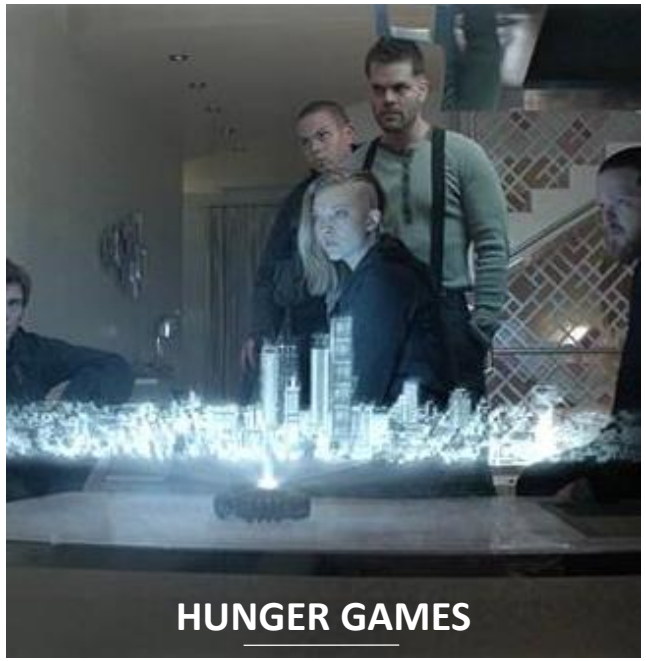
HOLOMAPS

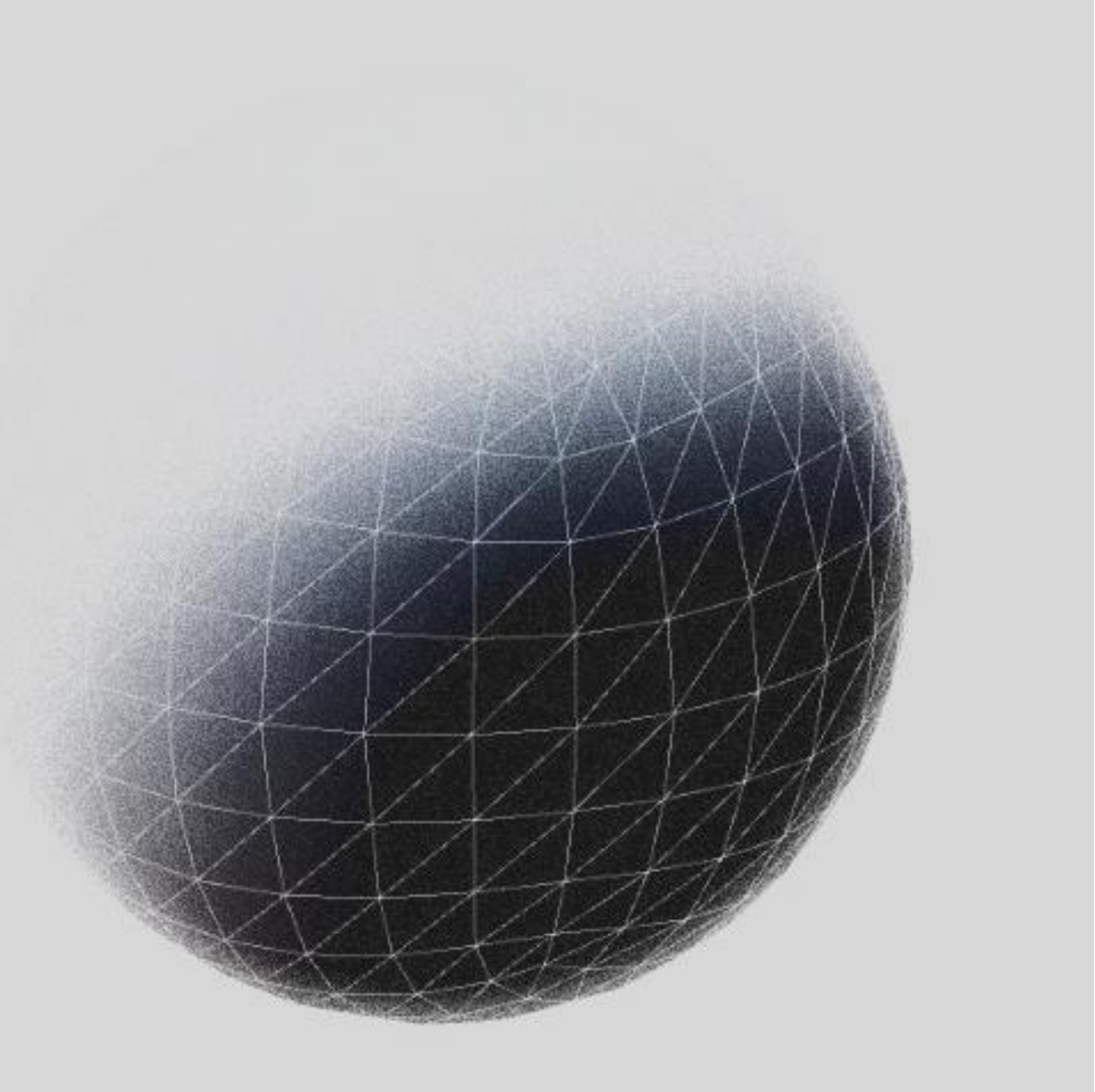
WE'VE ALL SEEN THEM IN MOVIES



HUNGER GAMES

PROMETHEUS

IRON MAN



CORE FUNCTIONS OF HOLOMAPS

- Intuitive User Interface
- Dynamically Load 3D Maps & Models
- Apply Data Overlays
- Display Area-based Info & Media Display
- Collaboration

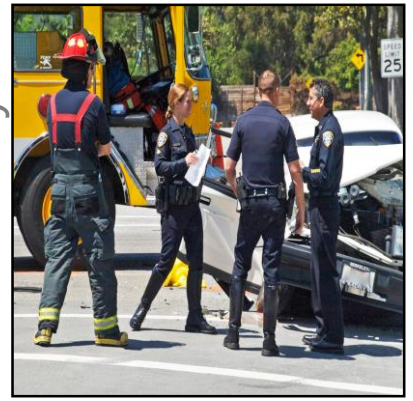
HOLOMAPS USE CASES FOR CITY GOVERNMENT

Real-Estate Dev

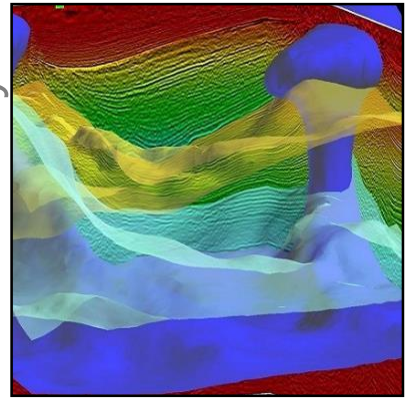
City Planning

Public Utilities

Public Safety



Seismic Analysis

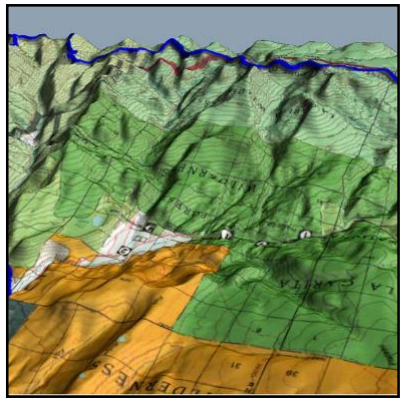


Design Review

Construction

Emergency Ops

Land Use



kelly@taqtile.com

TRANSFORM YOUR SERVICES

"Microsoft HoloLens and Trimble's SketchUp Viewer have completely revolutionized the way I work. It actually changes the way you think about design and is an absolutely new way to experience architecture in a mode not previously possible."

Greg Lynn | Architect | Trimble Dimensions

EMPOWER YOUR EMPLOYEES

"We believe that HoloLens can contribute to the safety of our business, which is the most important criteria for airlines."

Koji Hayamizu | Senior Director, Planning Group, Products & Service Administration Department | JAL

OPTIMIZE YOUR OPERATIONS

"We need to enable our people to use the latest technology possible. HoloLens is a device that has potential to serve our customers better. One of the most important capabilities we see with HoloLens is that we can trigger a remote call to a subject matter expert."

Thomas Felis | VP RIC Atlanta | thyssenkrupp Elevator

Public Links

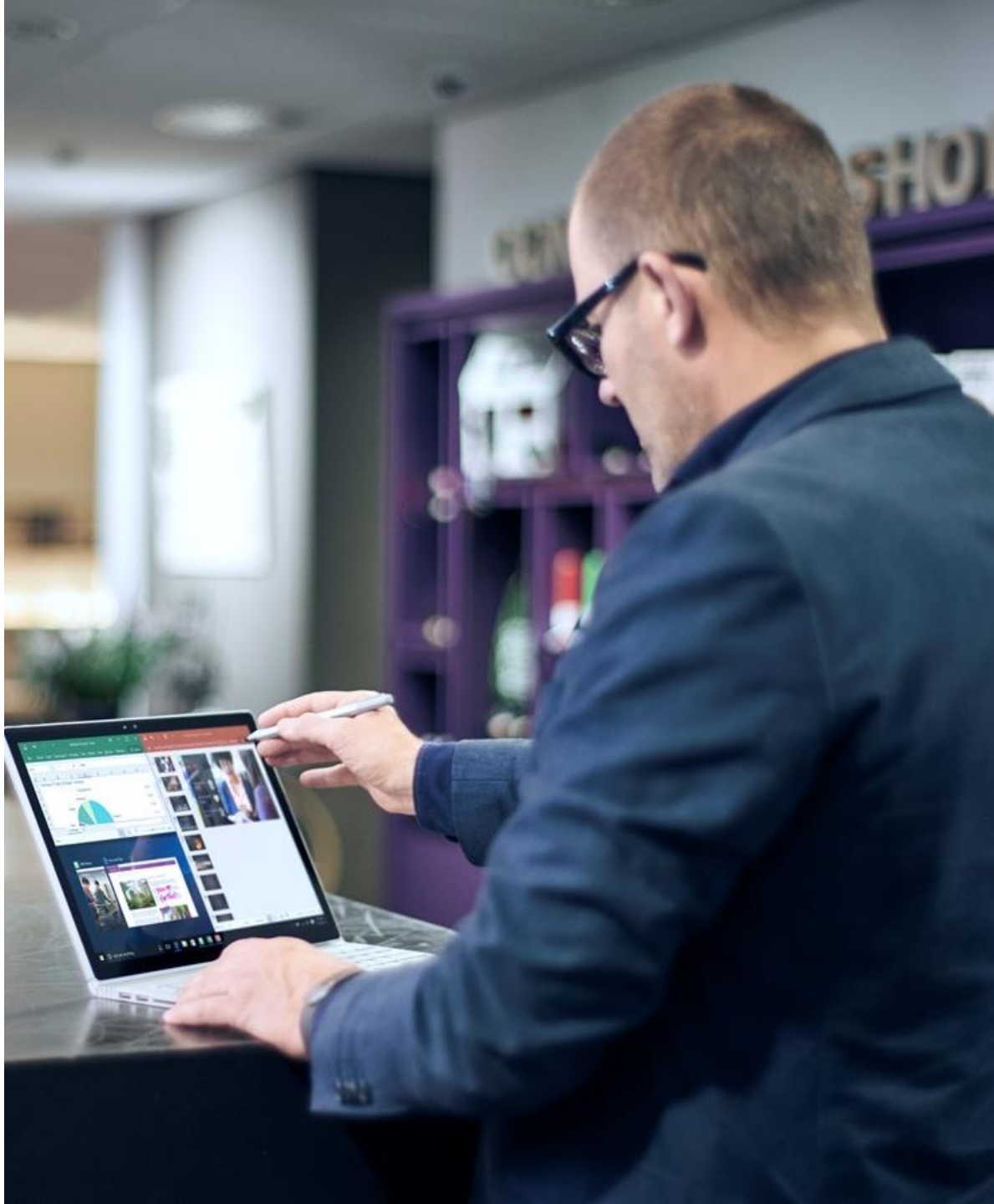
http://www.microsoft.com/hololens

Microsoft HoloLens on YouTube

More case studies

Microsoft HoloLens and Autodesk Fusion 360: Collaboration that could create radical change

Microsoft HoloLens enables thyssenkrupp to transform the global elevator industry

Legendary partners with Microsoft HoloLens to connect fans with their favorite characters

Microsoft HoloLens and Lowe's, working to redefine your next home renovation