

Microsoft HoloLens

Wigner GPU Day





What is HoloLens?

Microsoft HoloLens is the **world's first** fully **self-contained** holographic **computer**.

Mixed reality

Both digital and physical information interact together in the same space.

Physical world



Digital world

Digital information is added to physical places and things.

Physical information is added to digital places and things.



Microsoft HoloLens

- Commercial only!
- Augmented Reality (see-through)
- Untethered

\$3000-5000



Windows Mixed Reality

- Mainly consumer
- Virtual Reality (opaque)
- Tethered

\$200-400





Demo



Advanced sensors



Transparent lenses



Holographic Processing Unit (HPU)



Spatial sound

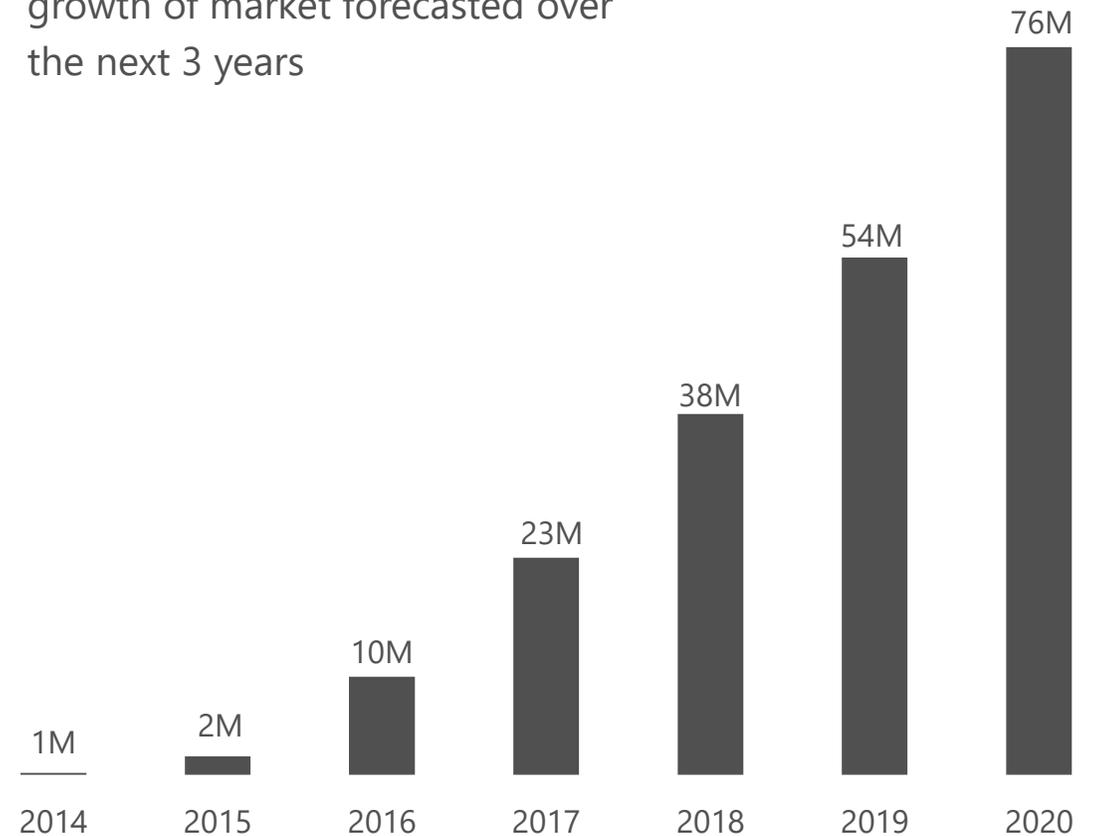
The next computing paradigm is here:

Consumers are increasingly using headsets and organizations are ramping up pilot programs to meet this fast approaching shift

7x

Source: IDC, Worldwide Quarterly Augmented and Virtual Reality Headset Tracker, 3Q16

growth of market forecasted over the next 3 years



HoloLens brings to life six key operational use cases that touch a broad range of activities for every organization



**Heads-up,
hands-free**



**Data
visualization**



**Spatial
mapping and
planning**



**Remote
collaboration
and assistance**



**3D modeling
and product
design**



**Simulation
training**





- “The partnership between ThyssenKrupp elevators and Microsoft will help empower our employees and customers to build the cities of tomorrow.”
- - Andres Schierenbeck, CEO



Heads-up, hands-free

The world around you is your screen; see your content in your environment, anywhere you want or need it



Work more safely and efficiently with your head up and hands free

Streamline your workflow by eliminating the distraction of toggling between handbooks, manuals, and handheld devices while you work



Add data, instructions, remote expertise, and more to your field of view, without disengaging from the task at hand

NOTHING can replace
your eyes



Data visualization

Visualize contextual data while collaborating, annotating, and updating in real time

Collaborate in immersive, data-contextual MR environments

Integrate multiple data and visual sources into one single mixed reality view

Anchor images, 3D charts, and more in your world







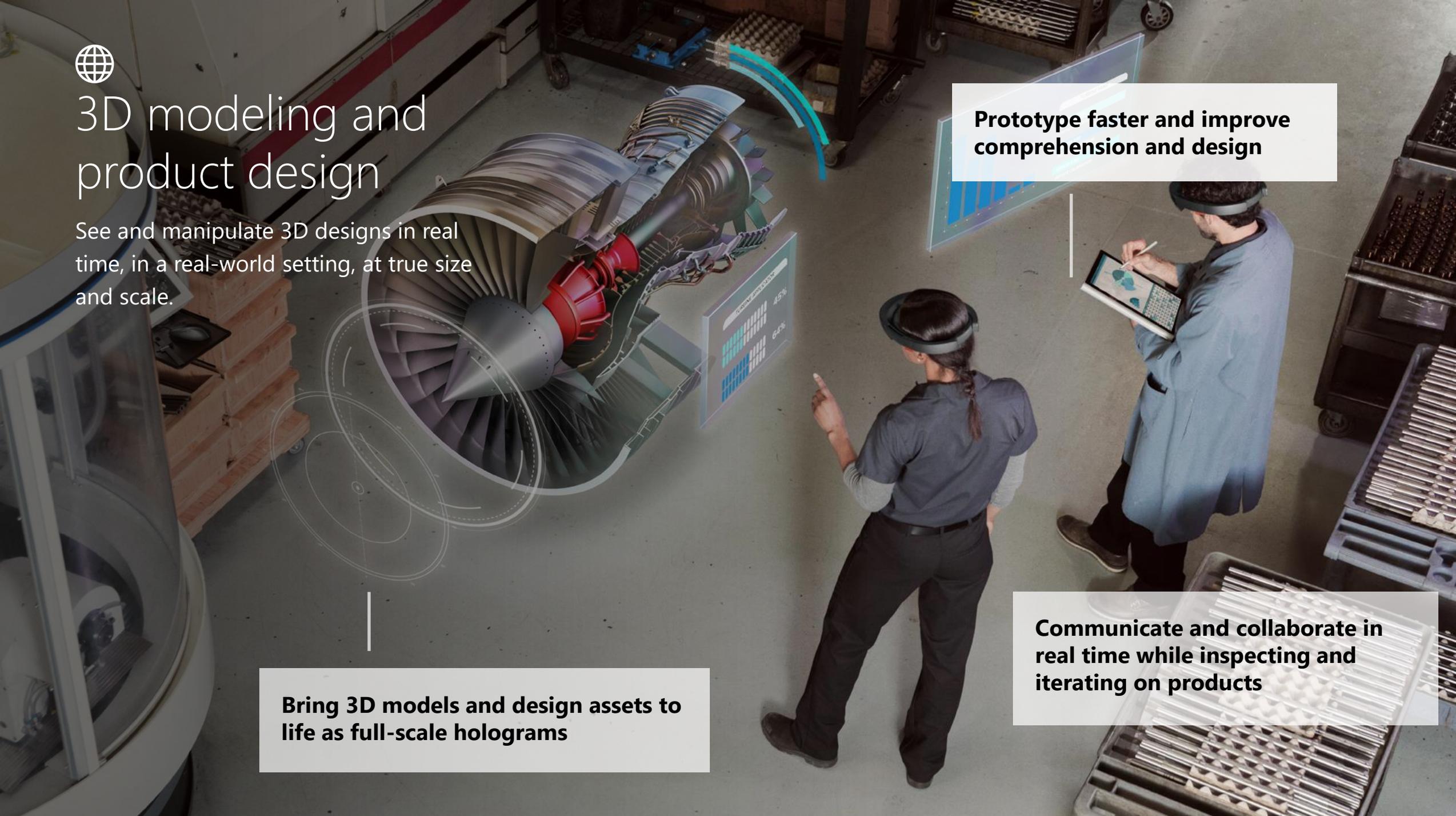
3D modeling and product design

See and manipulate 3D designs in real time, in a real-world setting, at true size and scale.

Bring 3D models and design assets to life as full-scale holograms

Prototype faster and improve comprehension and design

Communicate and collaborate in real time while inspecting and iterating on products





Simulation training

Create interactive learning experiences.

Interact safely with the environment in immersive training scenarios

Increase learning and understanding by 25 percent with HoloLens (Forrester)

Experience training materials in an exciting and interactive way





Mixed
Reality



• Elevation
25,643'

• Temperature
-22°C

Artificial
Intelligence



Quantum
Computing

