



## Virtual Reality / Augmented Reality in healthcare – May 25<sup>th</sup> 2019

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**UNITY STUDIOS**

# Who is Unity Studios?

## Introduction



 <p>VR, AR &amp; MR DEVELOPMENT &amp; CONSULTING</p>	 <p>OFFICE LOCATED IN AARHUS, DENMARK</p>	 <p>ALL SOLUTIONS BUILT IN UNITY 3D</p>	 <p>SUPPORT +35 PLATFORMS</p>	 <p>+125 SUCCESSFUL PROJECTS</p>	 <p>PROJECTS IN +20 COUNTRIES</p>
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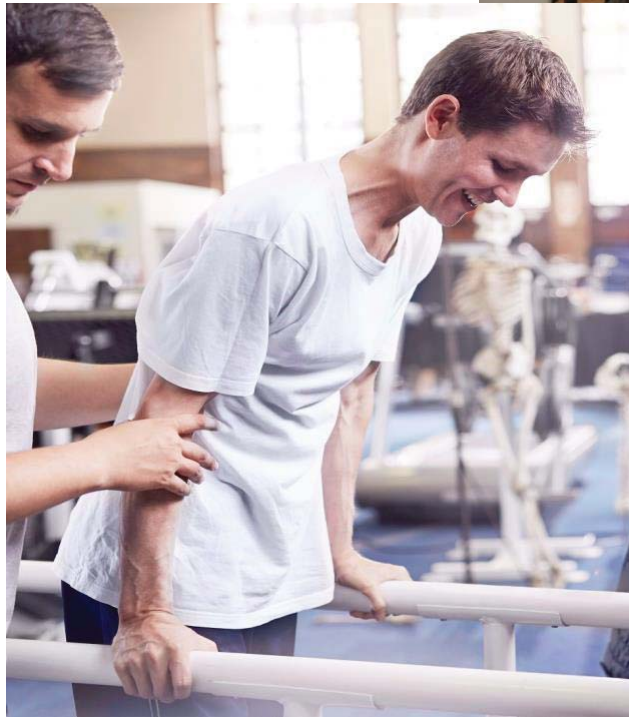


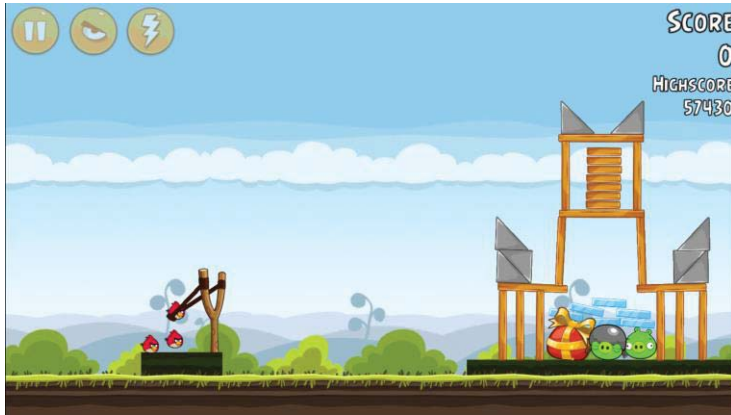
... and many more!







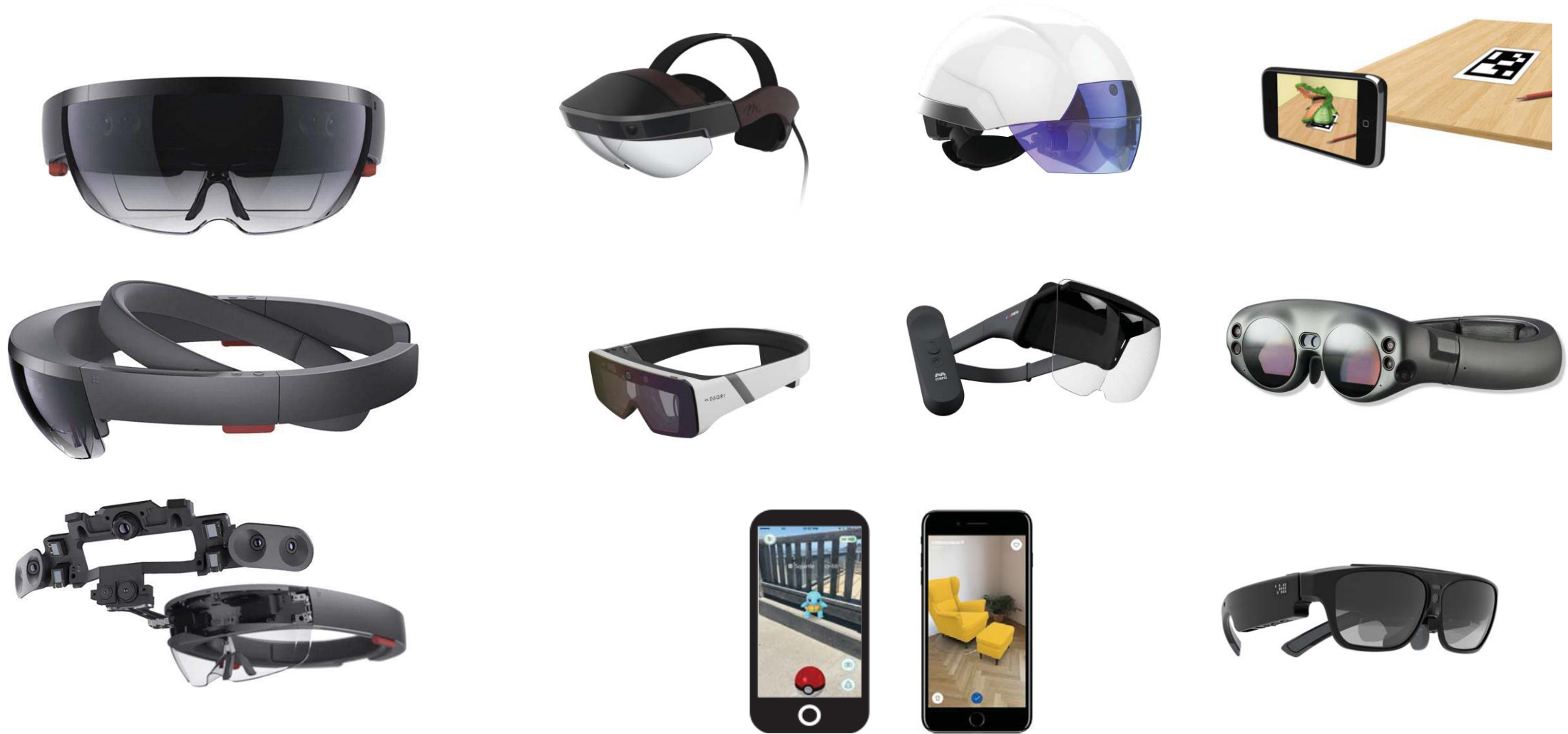















- 46 Haptic points
- Haptic Animations
- Real-time Simulations
- Weight Simulation

- User calibration profiles
- Capillary system
- Haptic Library
- Users can create custom animations with Haptic Editor application



# Remember!

The speed of technology today...

## 1 The accelerating pace of change ...



## 2 ... and exponential growth in computing power ...

Computer technology, shown here climbing dramatically by powers of 10, is now progressing more each hour than it did in its entire first 90 years

### COMPUTER RANKINGS

By calculations per second per \$1,000



**Analytical engine**  
Never fully built, Charles Babbage's invention was designed to solve computational and logical problems.



**Colossus**  
The electronic computer, with 1,500 vacuum tubes, helped the British crack German codes during WW II



**UNIVAC I**  
The first commercially marketed computer, used to tabulate the U.S. Census, occupied 943 cu. ft.

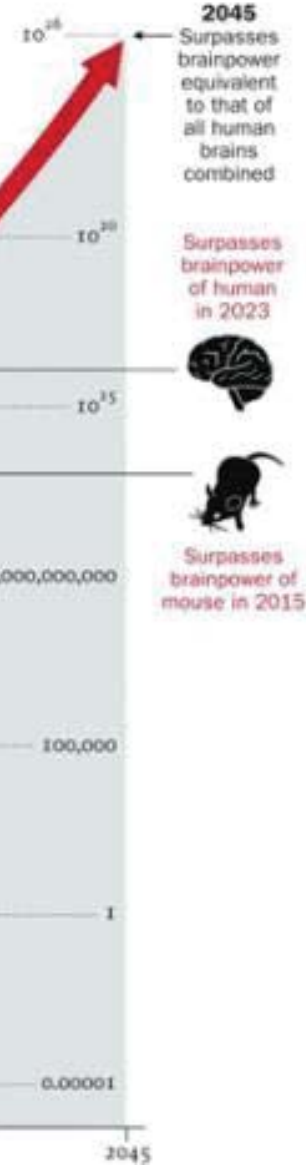


**Apple II**  
At a price of \$1,298, the compact machine was one of the first massively popular personal computers



**Power Mac G4**  
The first personal computer to deliver more than 1 billion floating-point operations per second

## 3 ... will lead to the Singularity



What can VR?







**GRUNDFOS** 





# Use of VR today in rehabilitation

## Eksempler





# Use of VR today in rehabilitation

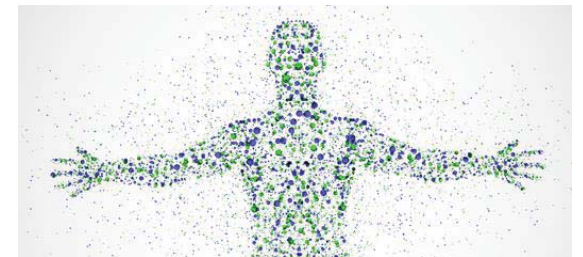
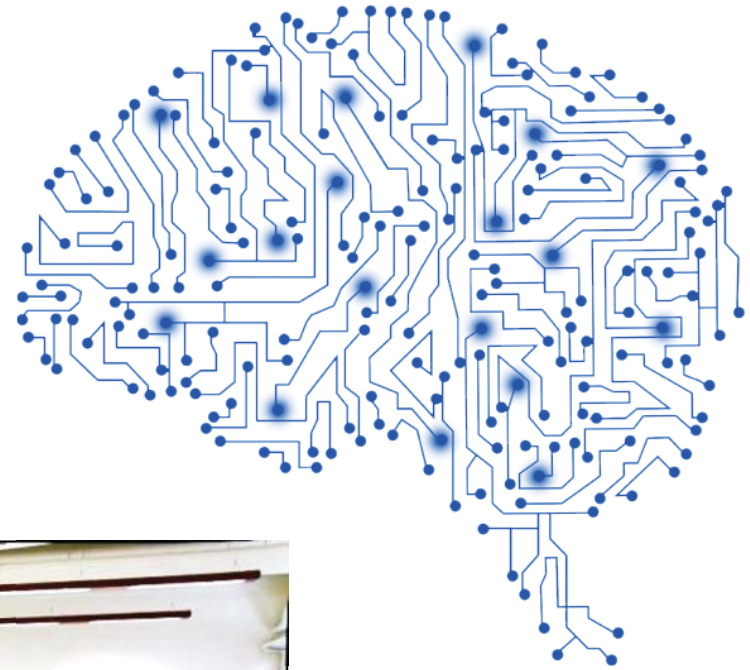
## Examples





The next 3 years...





# Availability

Experiences – social, entertaining and distance



# Empowerment

Søren Steen Nielsen is one of the Grundfos employees taking the lead in investigating new technologies in relation to our production.



## EMPOWER EMPLOYEES TO DRIVE BUSINESS GOALS

*"The digital workplace offers innovative technology that employees love, empowering them to communicate, collaborate, and produce with agility."*



5 -10 years...



# UNITY STUDIOS

3D EXPERIENCES

Thank you for your attention!



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