



 **ROYAL
AIR FORCE**

The Chief of the Air Staff's
Air Power Conference 2018

Building the Next Generation Air Force

Mr Jeremy Dalton

Head of Virtual Reality / Augmented Reality, PWC

The application of blended virtual reality and AI to military purposes

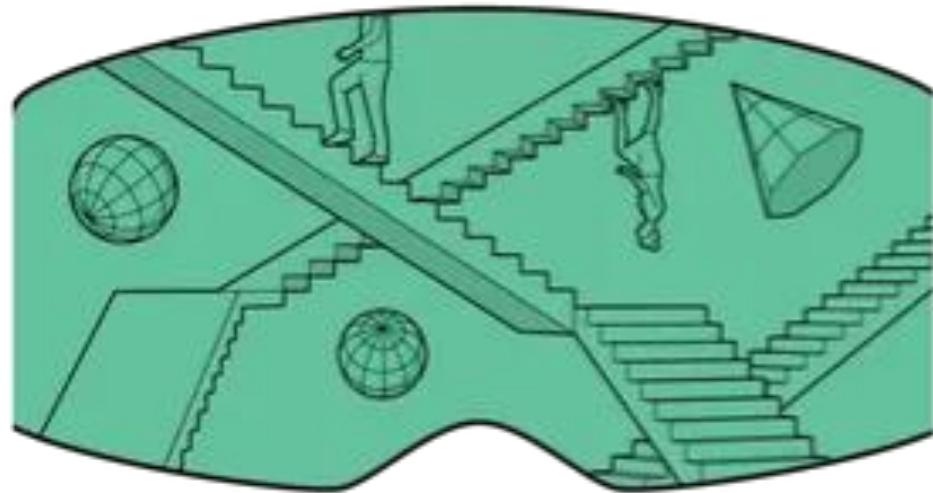
Air Power Conference 2018



@jeremydalton

VR and AR comprise the main immersive technologies

Virtual Reality

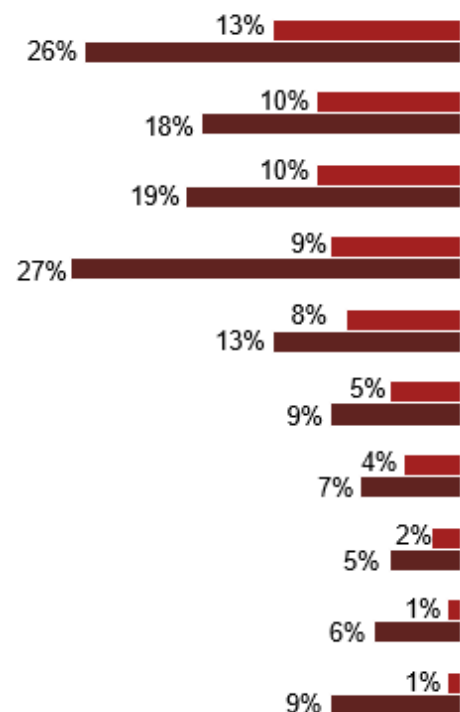


Augmented Reality

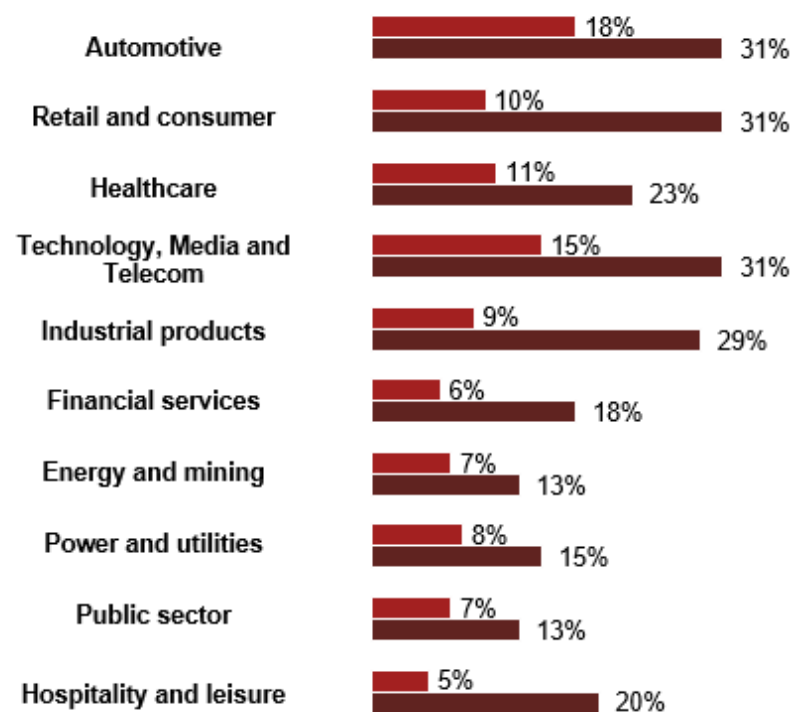


VR/AR investment is increasing across all sectors

Virtual reality investment by industry



Augmented reality investment by industry



■ Today ■ In 3 years

Source: PwC, 2017 Global Digital IQ Survey.

Bases: Automotive: 72, Energy and mining: 135, Financial services: 332, Healthcare: 237, Hospitality and leisure: 75, Industrial product: 375, Power and utilities: 131, Public sector: 156, Retail and consumer: 217, Technology, Media and Telecommunications: 433.

VR/AR provides value across different sectors through five main areas



Training



Design



***Smart
Information***



Telepresence



***Entertainment
& Marketing***

VR/AR provides value across different sectors through five main areas



Training



Design



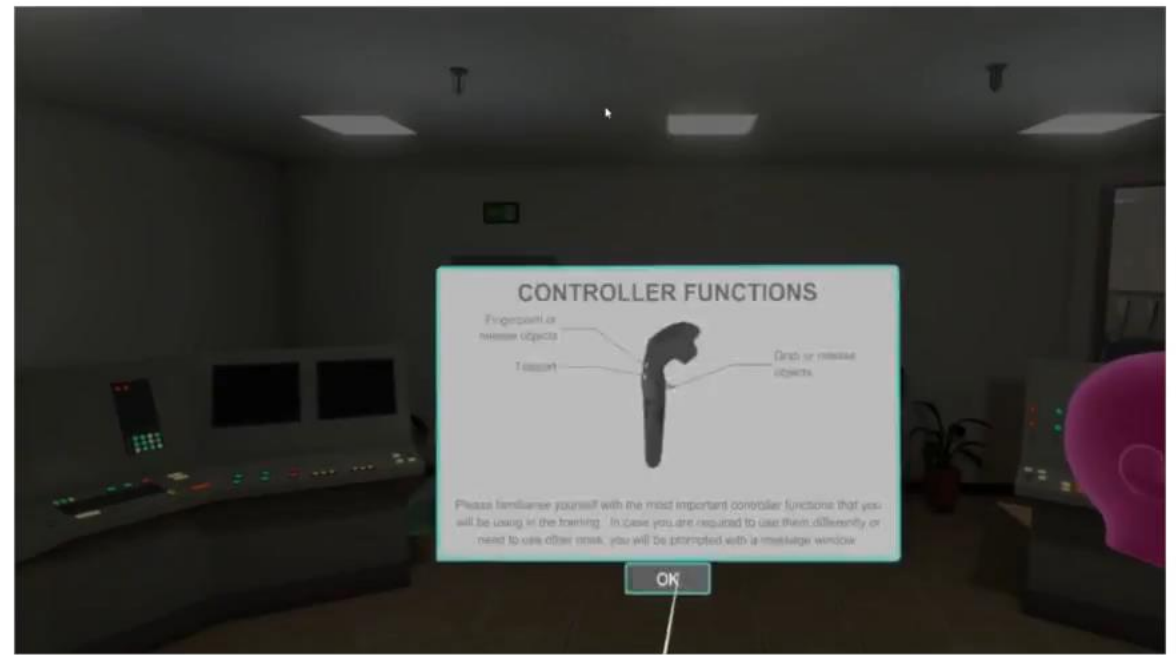
***Smart
Information***



Telepresence



***Entertainment
& Marketing***







Cabin crew training

American Airlines

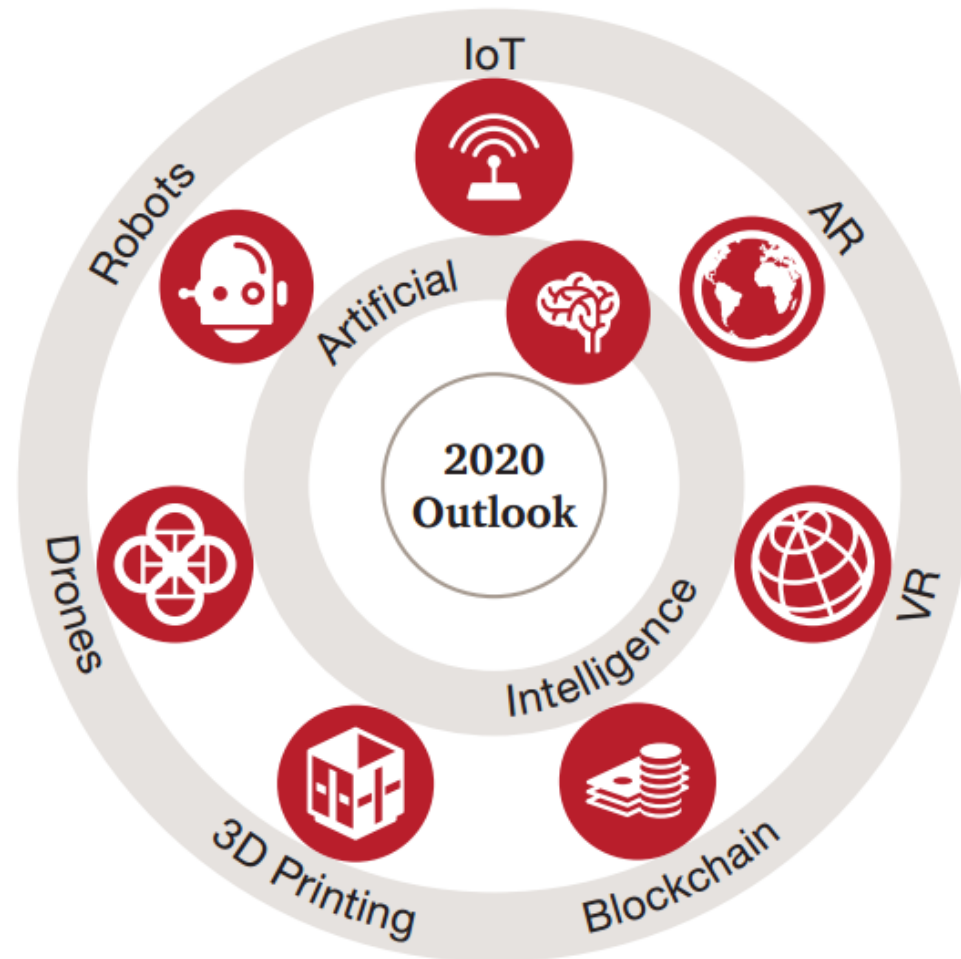
Image © Quantified Design Solutions

Multiple benefits to American Airlines of using VR for training

- 24% increase in first time pass rates
- Error free performance increase from 34% to 82%
- > 1,300 hours of simulator time saved per year



VR and AR are two of the “essential eight” emerging technologies



The convergence of emerging technologies can be powerful

VR + drones



VR + AI



AR + IoT



Thank you



Jeremy Dalton

Head of VR/AR, PwC UK

 jeremy.dalton@pwc.com

 [jeremydalton.info](https://www.linkedin.com/in/jeremydalton.info)

 [@jeremydalton](https://twitter.com/jeremydalton)

© 2017 PwC. All rights reserved. Not for further distribution without the permission of PwC. "PwC" refers to the network of member firms of PricewaterhouseCoopers International Limited (PwCIL), or, as the context requires, individual member firms of the PwC network. Each member firm is a separate legal entity and does not act as agent of PwCIL or any other member firm. PwCIL does not provide any services to clients. PwCIL is not responsible or liable for the acts or omissions of any of its member firms nor can it control the exercise of their professional judgment or bind them in any way. No member firm is responsible or liable for the acts or omissions of any other member firm nor can it control the exercise of another member firm's professional judgment or bind another member firm or PwCIL in any way.



 **ROYAL
AIR FORCE**

The Chief of the Air Staff's
Air Power Conference 2018

Building the Next Generation Air Force