

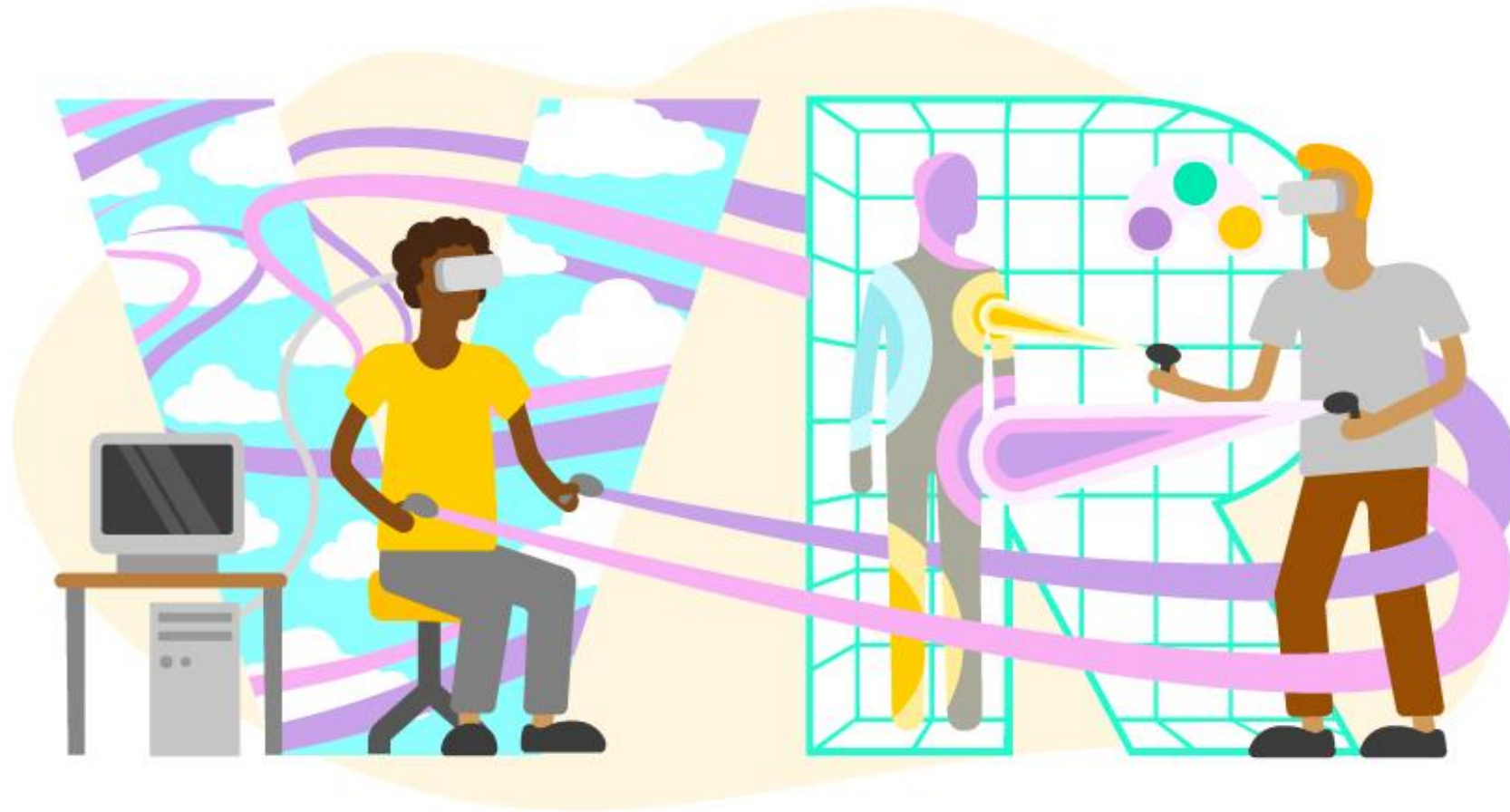
# CREATING A SUSTAINABLE FUTURE FOR XR HEALTHCARE IN THE UK



Sarah Ticho & Ross O'Brien  
XR Health Alliance



# The Growing Value of XR in Healthcare in the United Kingdom



# OVER 20 APPLICATIONS OF XR IN HEALTHCARE

- Phobias and Post Traumatic Stress Disorder
- Stress Management and Relaxation
- Surgical Training and Planning
- Physical Rehabilitation
- Pain and Difficult Procedure Management
- Exercise
- Cognitive Rehabilitation
- Optical Rehabilitation
- Addiction
- Neuropsychological Assessments
- Cognitive Training Wellness
- Sports Medicine
- Disability Solutions
- Speech Therapy
- Autism Spectrum Disorder
- Mood Disorders
- Patient Education
- Preventative Health
- ADHD
- Elderly Care

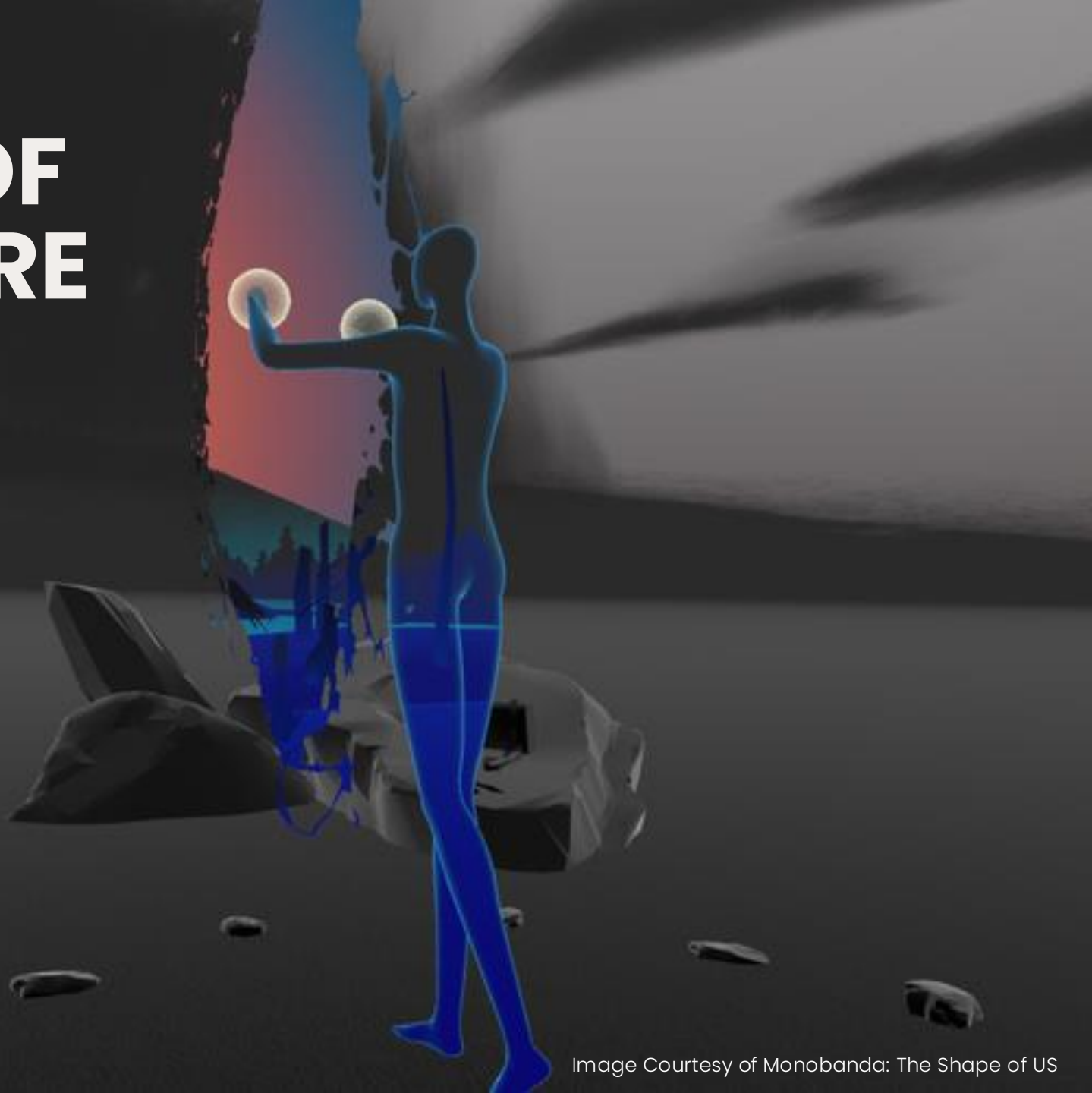


Image Courtesy of Monobanda: The Shape of US



University of  
**Nottingham**

UK | CHINA | MALAYSIA

**NIHR** | Mental Health  
MedTech Co-operative



HATSUMI

**NHS**

Health Education England

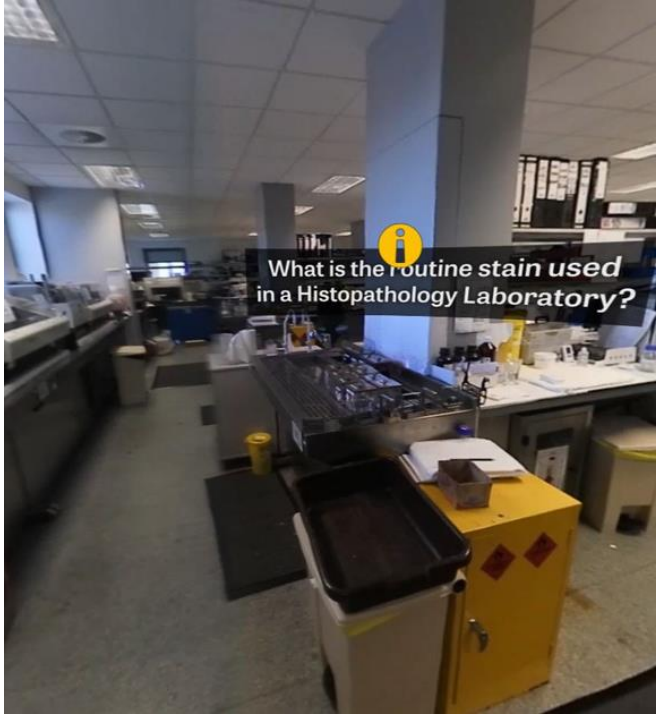
**NHS**

Central and  
North West London  
NHS Foundation Trust

**Sheffield  
Hallam  
University**

**IMPACT VR**

R E S E A R C H L A B



## Clinical Skills and Workforce Education

Richard Price and Abison Logeswaren - Health Education England and Fiona Kilkelly

- XR enables access to a range of risk-free environments and situations which improve and enhance the healthcare learning experiences at scale, with lower costs and increased accessibility and pace.



## Patient Education

Payal Ghatnekar and Nicholas Peres – Torbay and South Devon NHS Foundation Trust, with Dr Nigel Newbutt – University of the West of England

- VR can be a tool for capturing whole care environments and different patient perspectives, giving unique insight into activity, interactions and processes that enable people to step into the shoes of another for reflective learning.





## Clinical Mental Health

Dr. Michael Craven and Dr Aislinn Bergin - NIHR Mental Health MedTech Cooperative (MindTech) & The University of Nottingham.

- Clinical Mental Health VR has developed most notably in the treatment of Post-Traumatic Stress Disorder (PTSD), phobias and social anxiety disorder

# Mental Wellbeing

Sarah Ticho - XR Health Specialist

- Entertainment based XR experiences can be utilised to improve health and wellbeing in a range of environments and is a viable tool for Social Prescribing and Preventative Care.





# Pain Management

Ross O'Brien - CNWL NHS

- VR lowers the perception of pain for the patient distracting the patient from acute and chronic primary pain symptoms

**"MAKE A DIFFERENCE NOW, LET'S USE THE TECHNOLOGY FOR YOUR PATIENTS' TODAY, NOT THEIR TOMORROWS, BECAUSE SOME OF US DO NOT HAVE TOMORROW."**

**- KAY SMITH, MOTHER, DAUGHTER, PATIENT AND PATIENT ADVOCATE**



Forest of Serenity - Prospect Hospice + David

# Physiotherapy & Rehabilitation

Ivan Phelan and Dr Alicia Carrion-Plaza – Sheffield Hallam University

- VR systems can improve patient participation and enjoyment. Patients can receive support sooner by undertaking VR therapies at home, increase adherence and avoid the exacerbation of conditions, whilst cutting costs in comparison to traditional therapies.



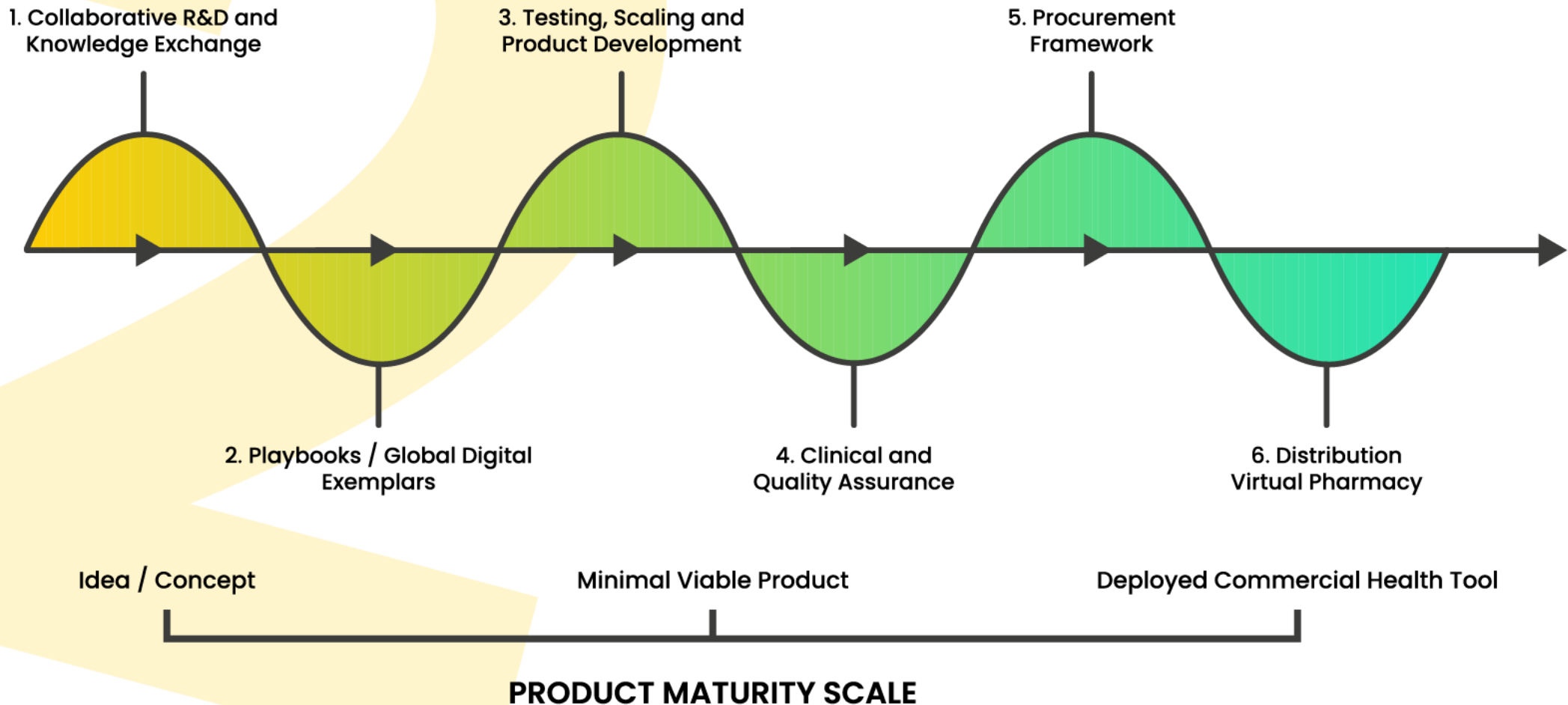


# Landscape mapping of the UK XR in the Healthcare Sector

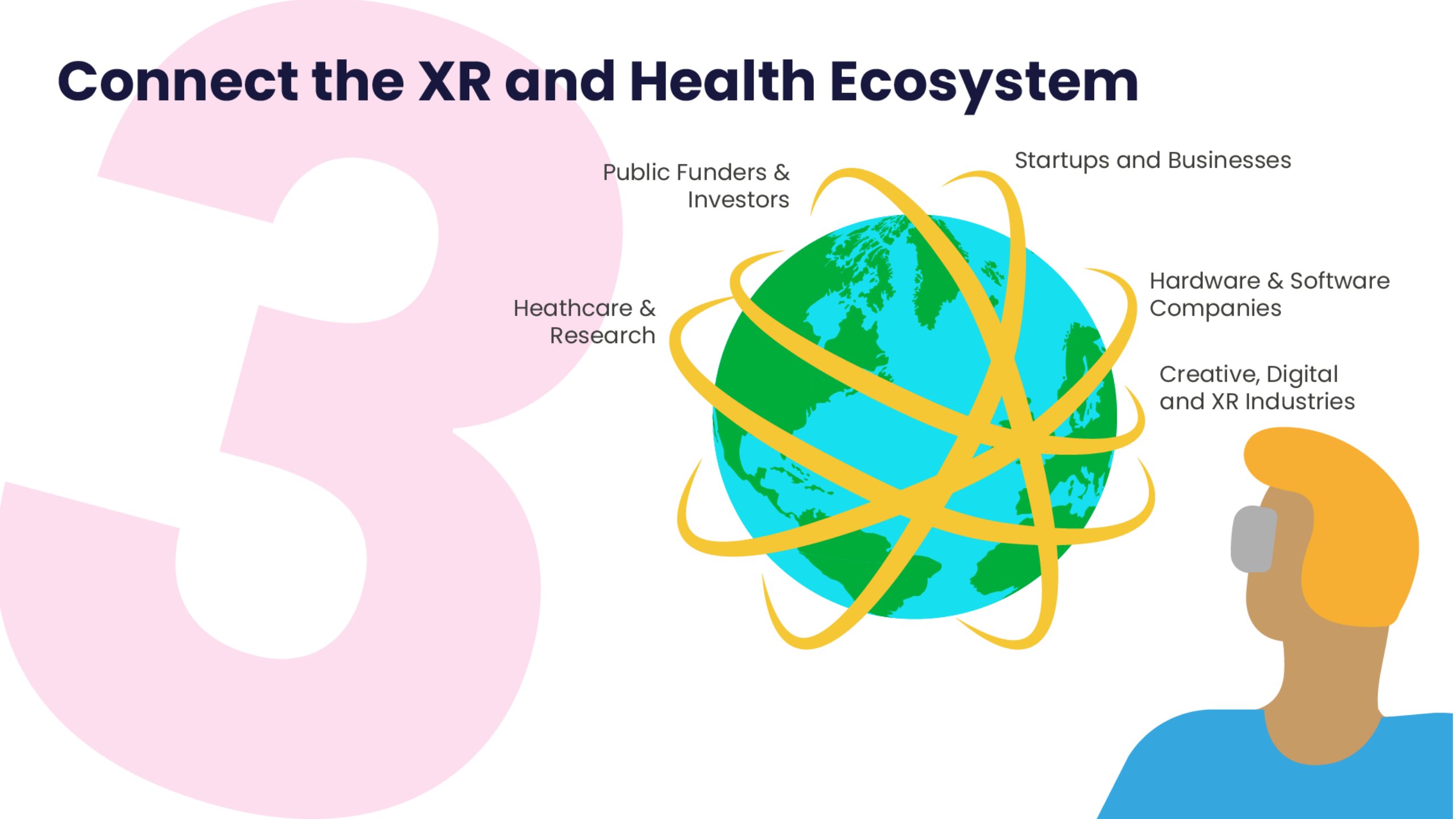


# Scaling UK XR Systematically

Focusing on XR in healthcare, to support an end to end development pipeline that enables a clear pathway from concept to investment and scaling to market.



# Connect the XR and Health Ecosystem



# Fast forward to now, how are we doing?



1990



2000



2010



2020

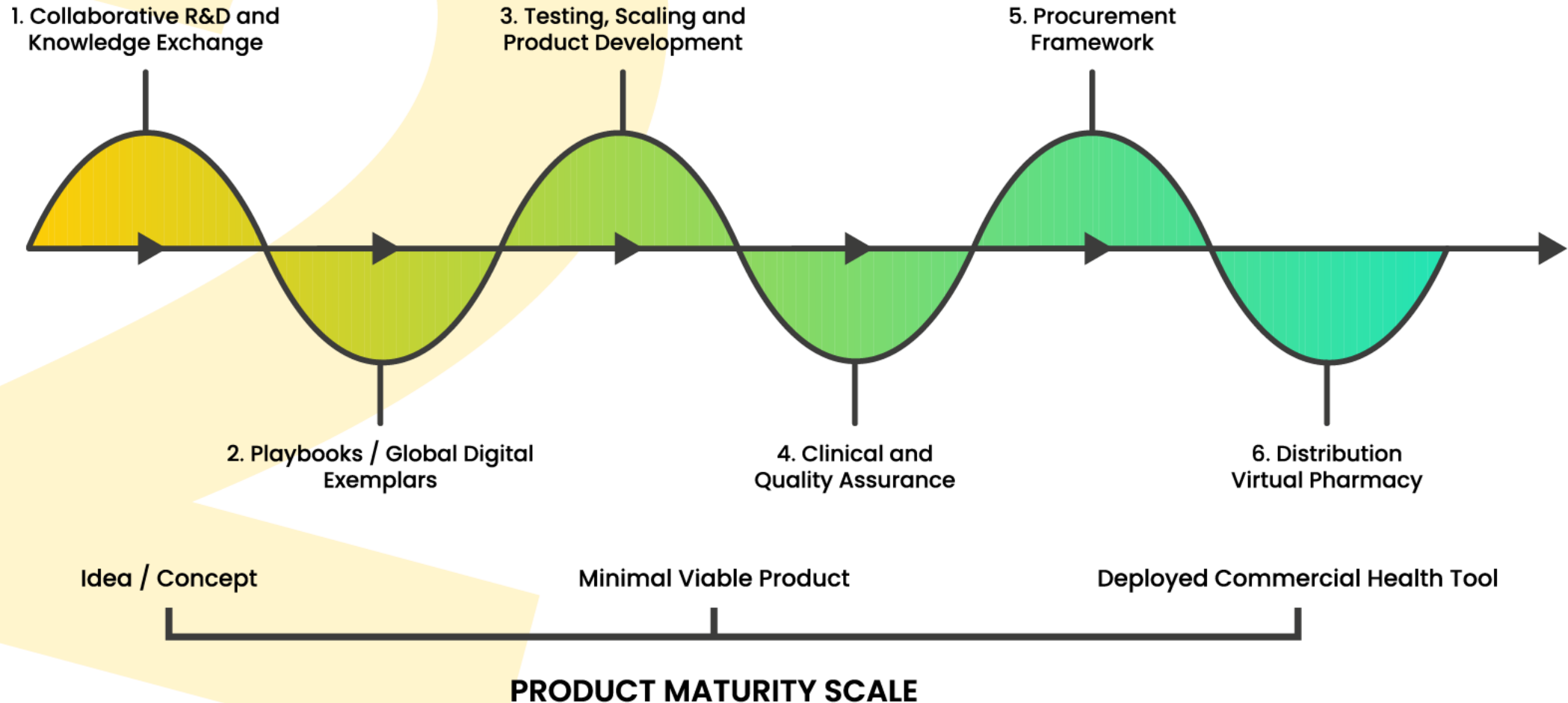
## Mindset-XR Innovation Support Programme

Mental Health



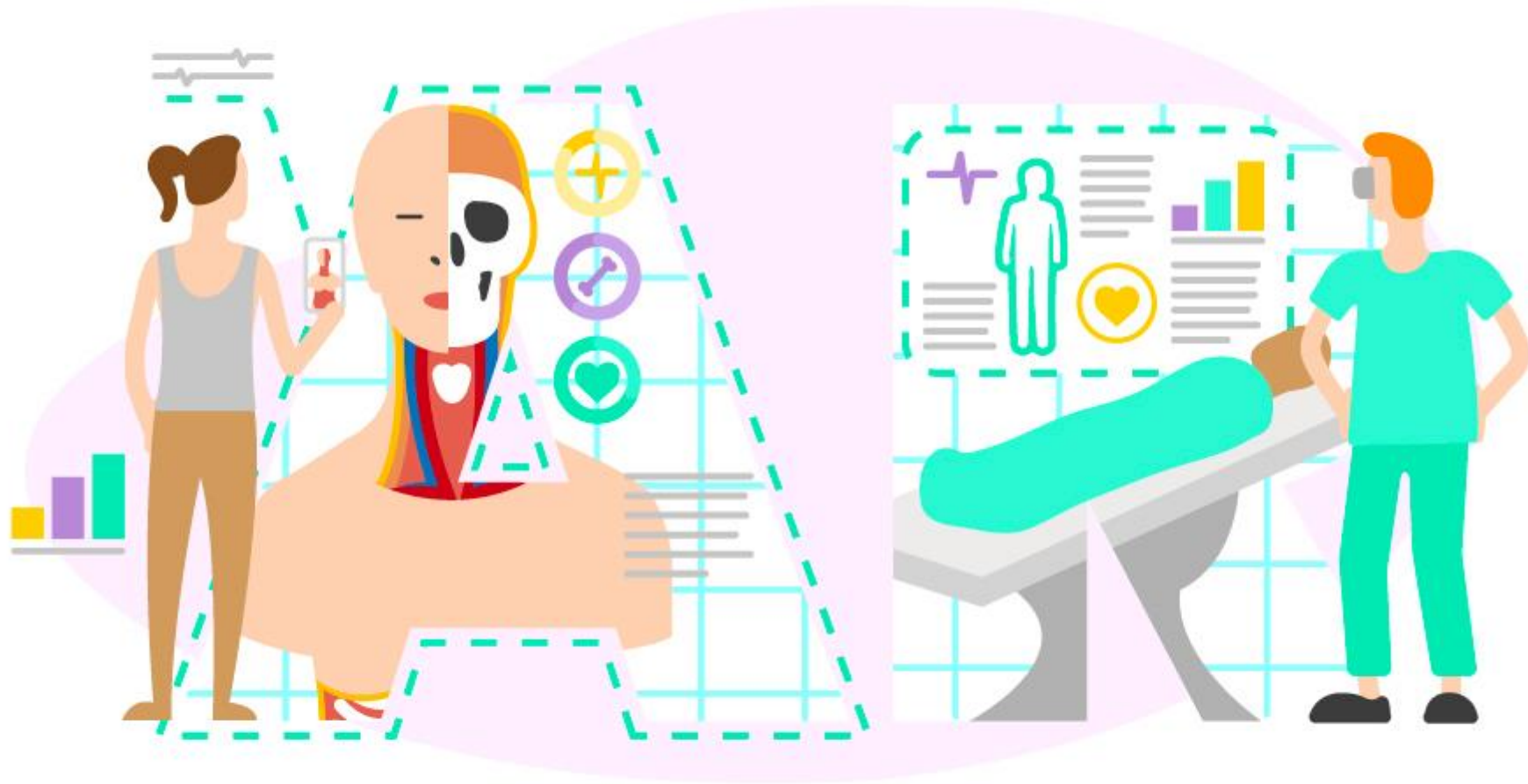
# Great Progress in Mental Health!

Focusing on XR in healthcare, to support an end to end development pipeline that enables a clear pathway from concept to investment and scaling to market.





## 4. Clinical and Quality Assurance – Regulation



## 6. Distribution Virtual Pharmacy



# Thank You



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