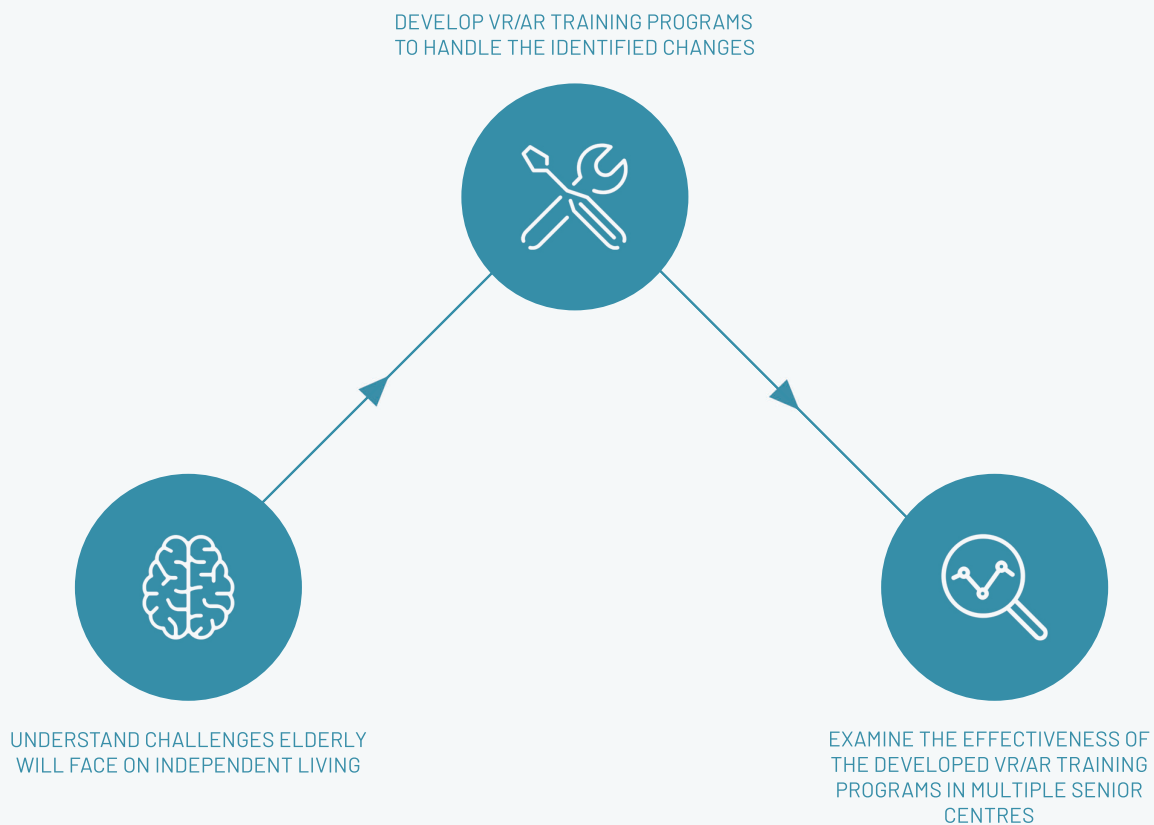# VIRTUAL AND AUGMENTED REALITY TRAINING SYSTEMS FOR THE ELDERLY IN SINGAPORE

Singapore will witness a significant increase in the elderly population within the next few years. This ageing society means that there will be an increasing shortage of young workers. Thus, mature and senior employees will become critical in helping our economy maintain its competitive edge, not to mention that working is a good remedy for active ageing. For this, the elderly needs to be retrained for age-suitable occupations, and one cost-effective method could be the use of virtual reality (VR) and augmented reality (AR) learning process. This study aims to develop VR/AR learning programs for daily technology use and vocational training for the elderly.

DEVELOP VR/AR TRAINING PROGRAMS
TO HANDLE THE IDENTIFIED CHANGES

UNDERSTAND CHALLENGES ELDERLY
WILL FACE ON INDEPENDENT LIVING

EXAMINE THE EFFECTIVENESS OF
THE DEVELOPED VR/AR TRAINING
PROGRAMS IN MULTIPLE SENIOR
CENTRES

PRINCIPAL INVESTIGATOR
Dr. Jung Younbo
Associate Professor
WKWSCI

CO-INVESTIGATORS
Dr. Theng Yen Ling
Director, ARISE
Professor, WKWSCI

Dr. Kenneth Lim Yang Teck
Research Scientist
National Institute of Education,
Office of Education Research,
Learning Sciences Lab

Dr. Marius Erdt
Deputy Director
Fraunhofer IDM@NTU

COLLABORATORS
Dr. Benjamin Li Junting
Assistant Professor
WKWSCI

Dr. You Bum-Jae
Director
Centre for Human-centered
Interaction for CoExistence

Dr. Matt Flynn
Director
Centre for Research into the Older Workforce,
Newcastle University