



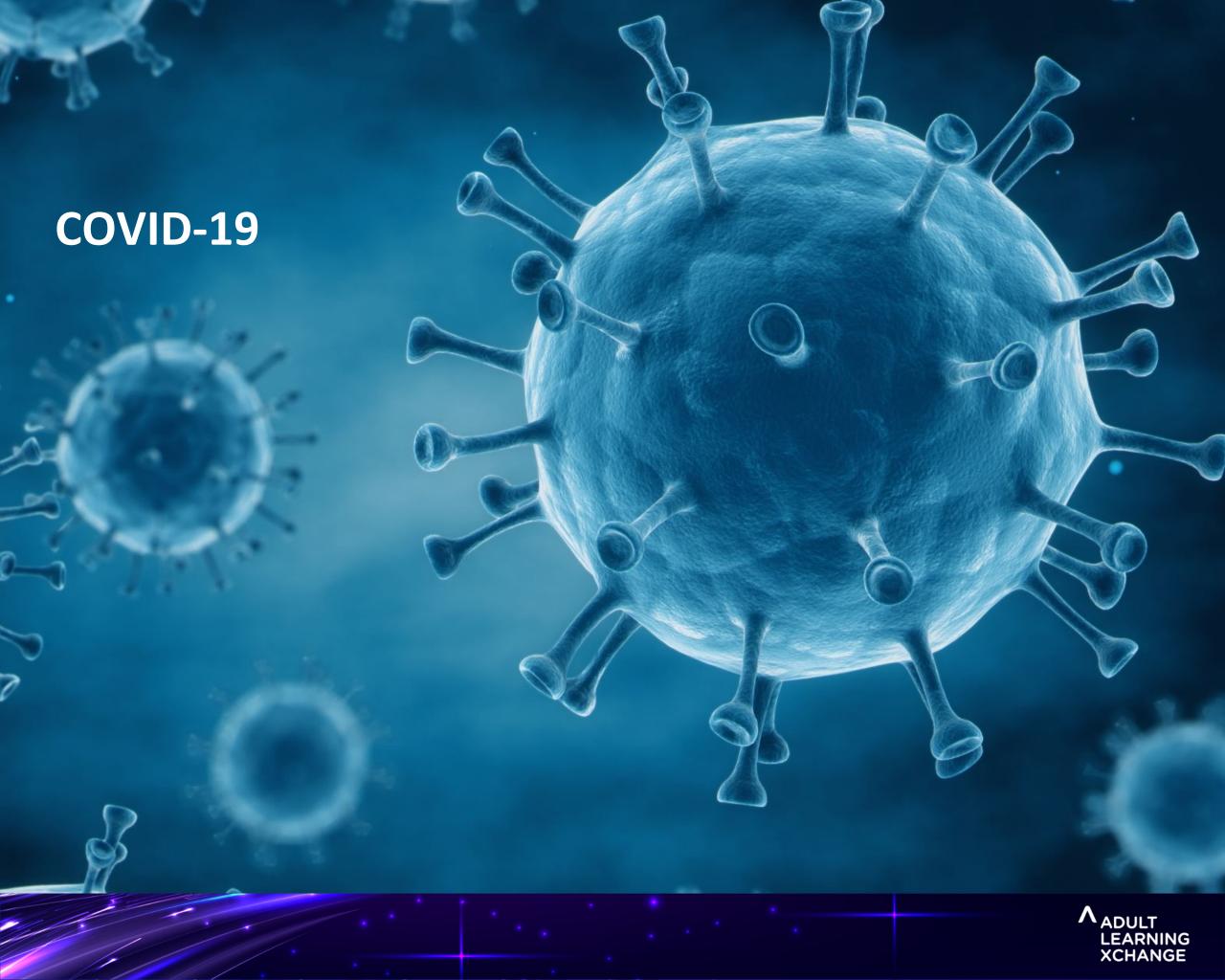
The Future of Learning in Healthcare: Nurturing the well-being of 1.5 million Residents



Mr Ronnie Yang
Deputy Executive Director
Centre for Healthcare Innovation
Tan Tock Seng Hospital















The 'Silver Tsunami'



Healthcare is Complex

"Do no harm"

Patient Service Areas

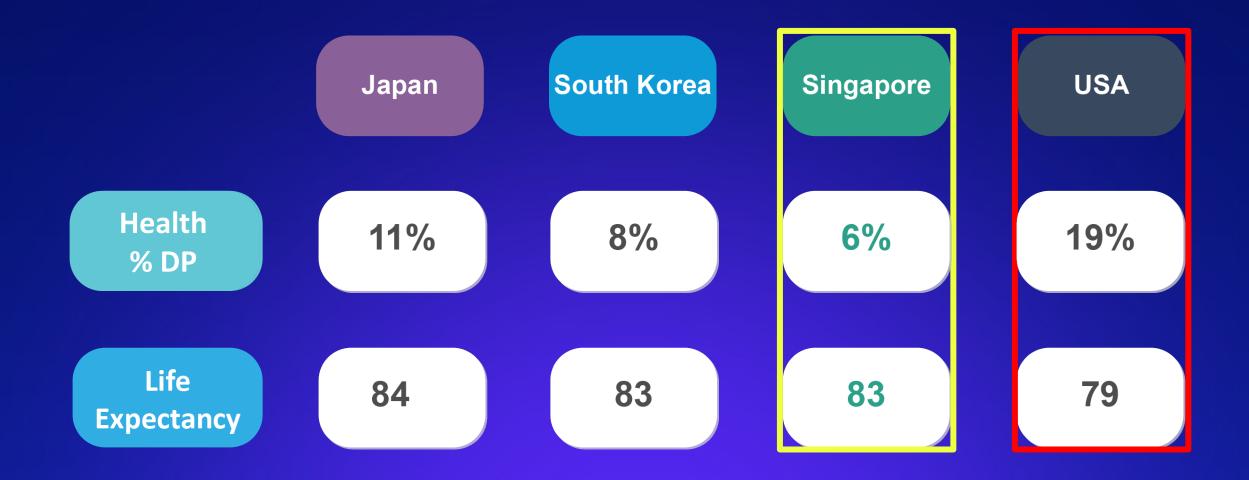
- Accident & Emergency
- Outpatient Clinic
- Rehabilitation Clinic
- Operating Theatre
- Intensive Care Unit
- High Dependency Unit
- General Ward



Numerous Touch-Points

- Admission
- Initial assessment
- Daily rounds
- Medical administration
- Meal services
- Nursing care
- Diagnostic tests
- Therapy sessions
- Patient education
- Family visits
- Social services
- Discharge processing
- Housekeeping
- Infection control

Healthcare Expenditure and Outcomes



ChannelNewsAsia, 10 May 2023

Singapore must ensure healthcare fiscal burden does not spiral out of control: Ong Ye Kung

[[]i] World Health Organization Global Health Expenditure Database

[[]ii] World Health Organization Global Health Observatory

Manpower Challenges

THE STRAITS TIMES

5 Oct 2022

24k more nurses, healthcare staff needed by 2030 as S'pore ages

THE STRAITS TIMES

4 Jul 2023

Singapore birth rates hit record low in 2022, along with highest number of yearly deaths since 1960

The Straits Times, 3 Aug 2022

Resignation rates of nurses in public hospitals at a five-year high in 2021

Diverse Workforce

Healthcare Professional Groups









5 Generations



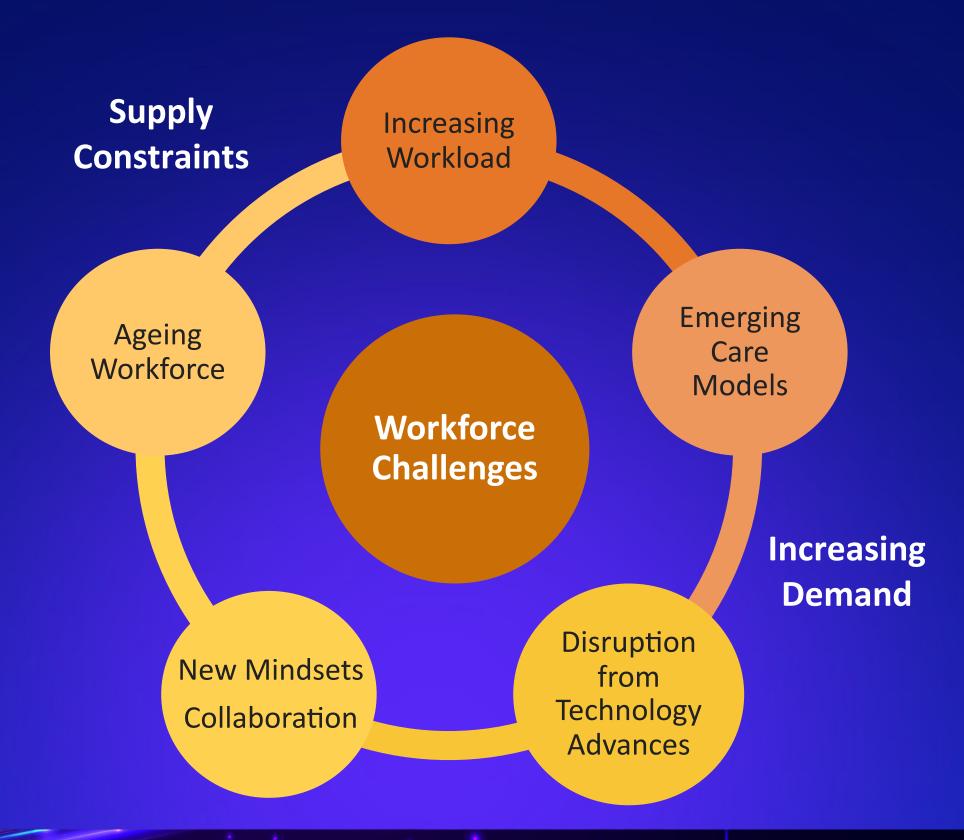








Workforce Challenges



Workforce Transformation











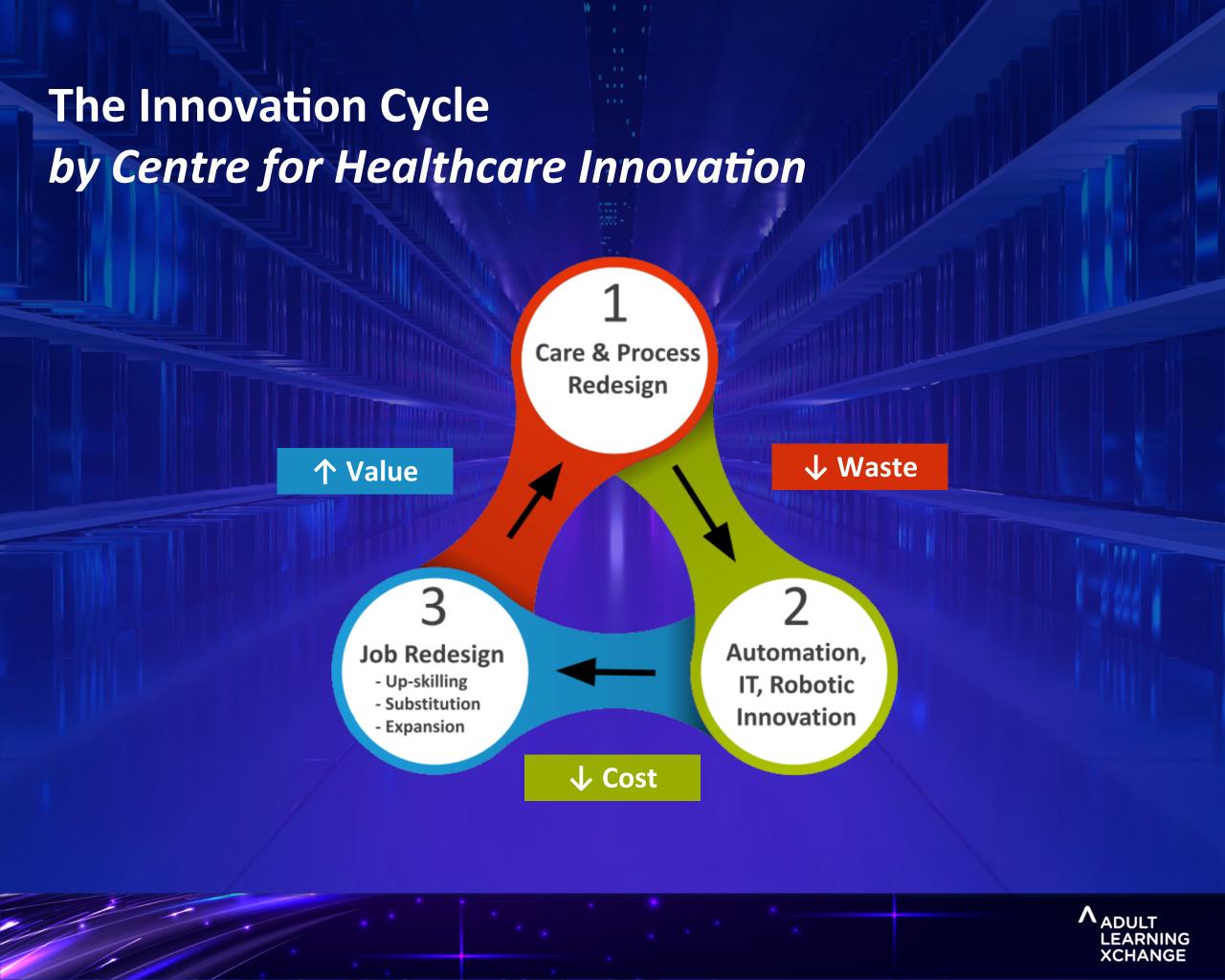


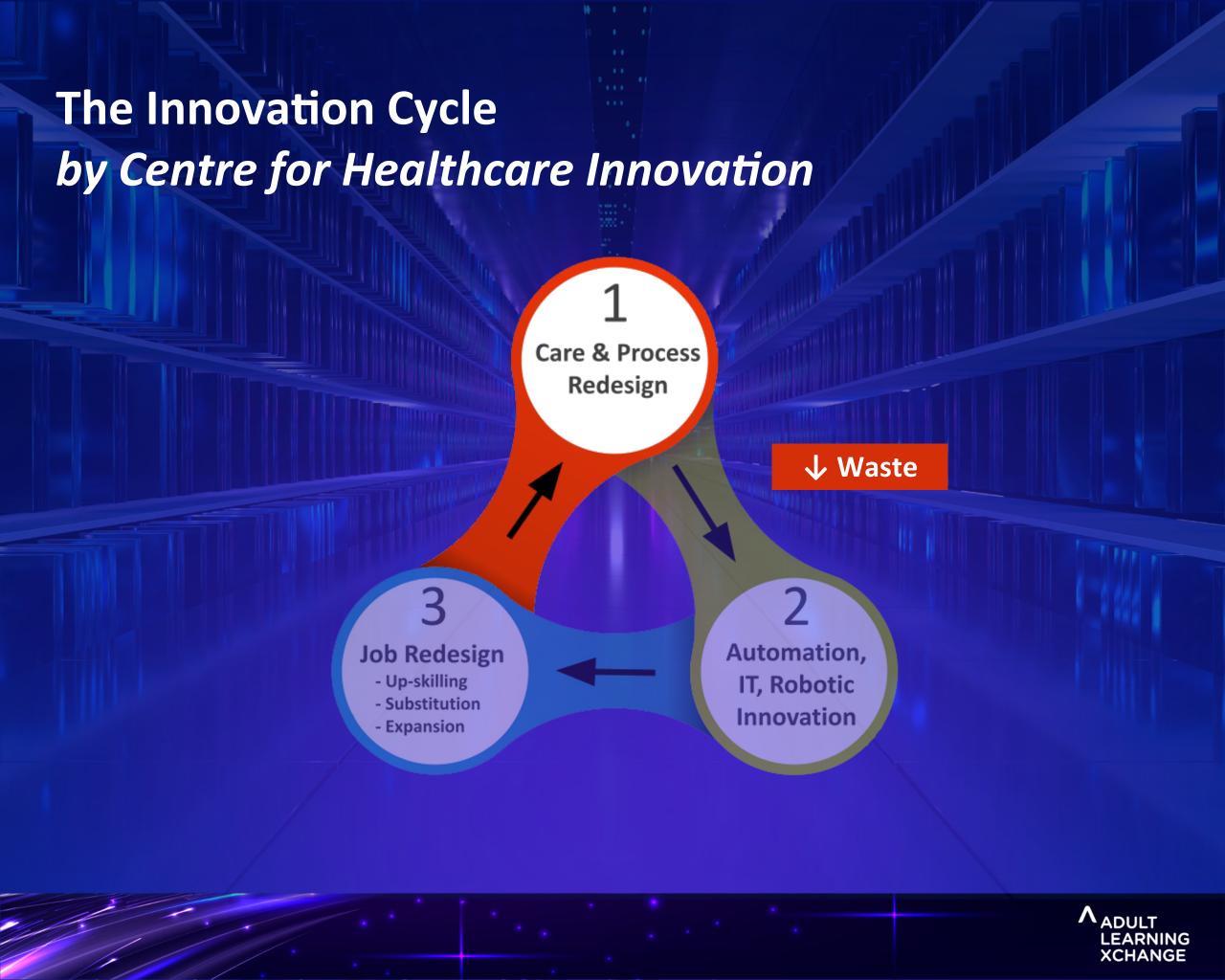


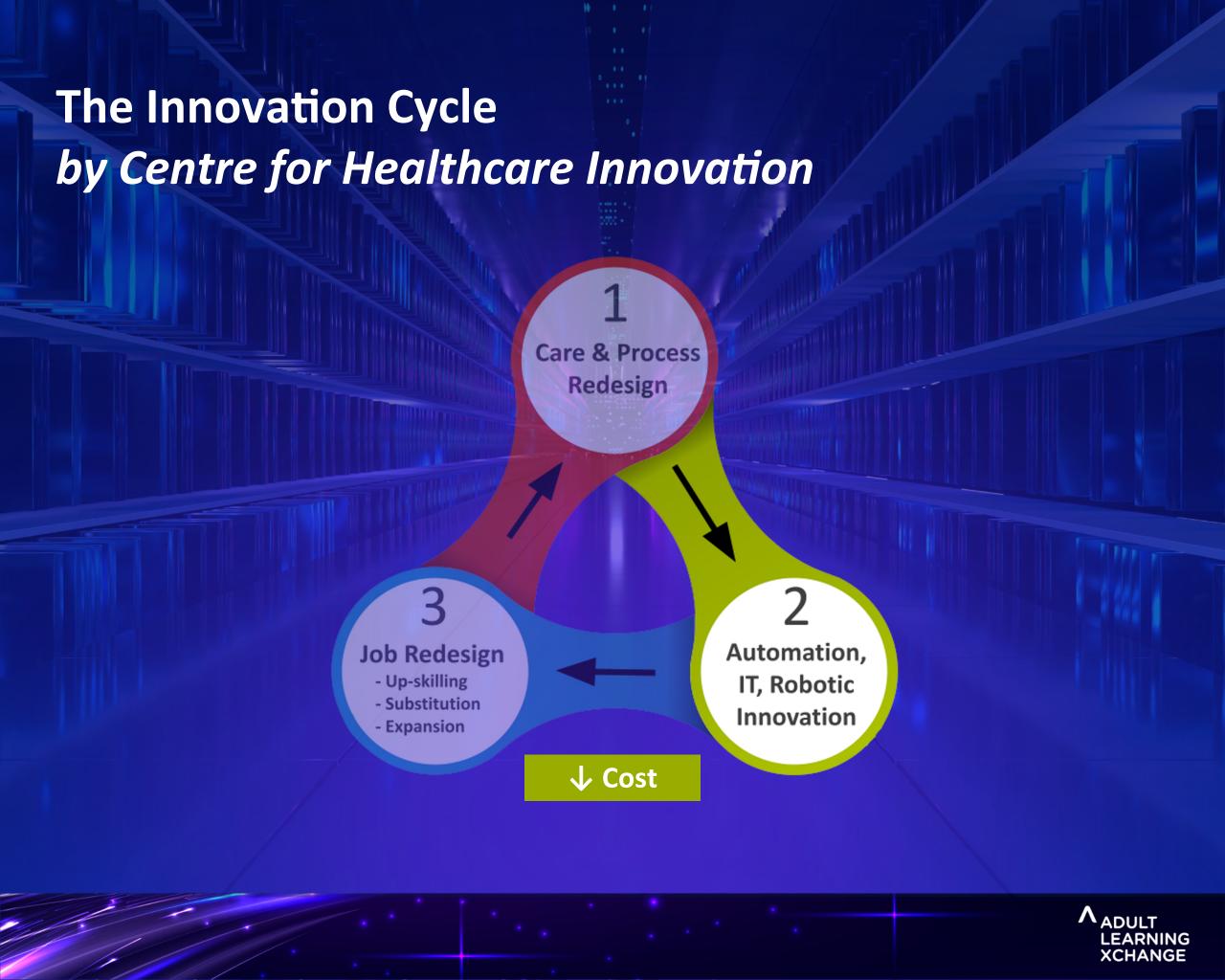


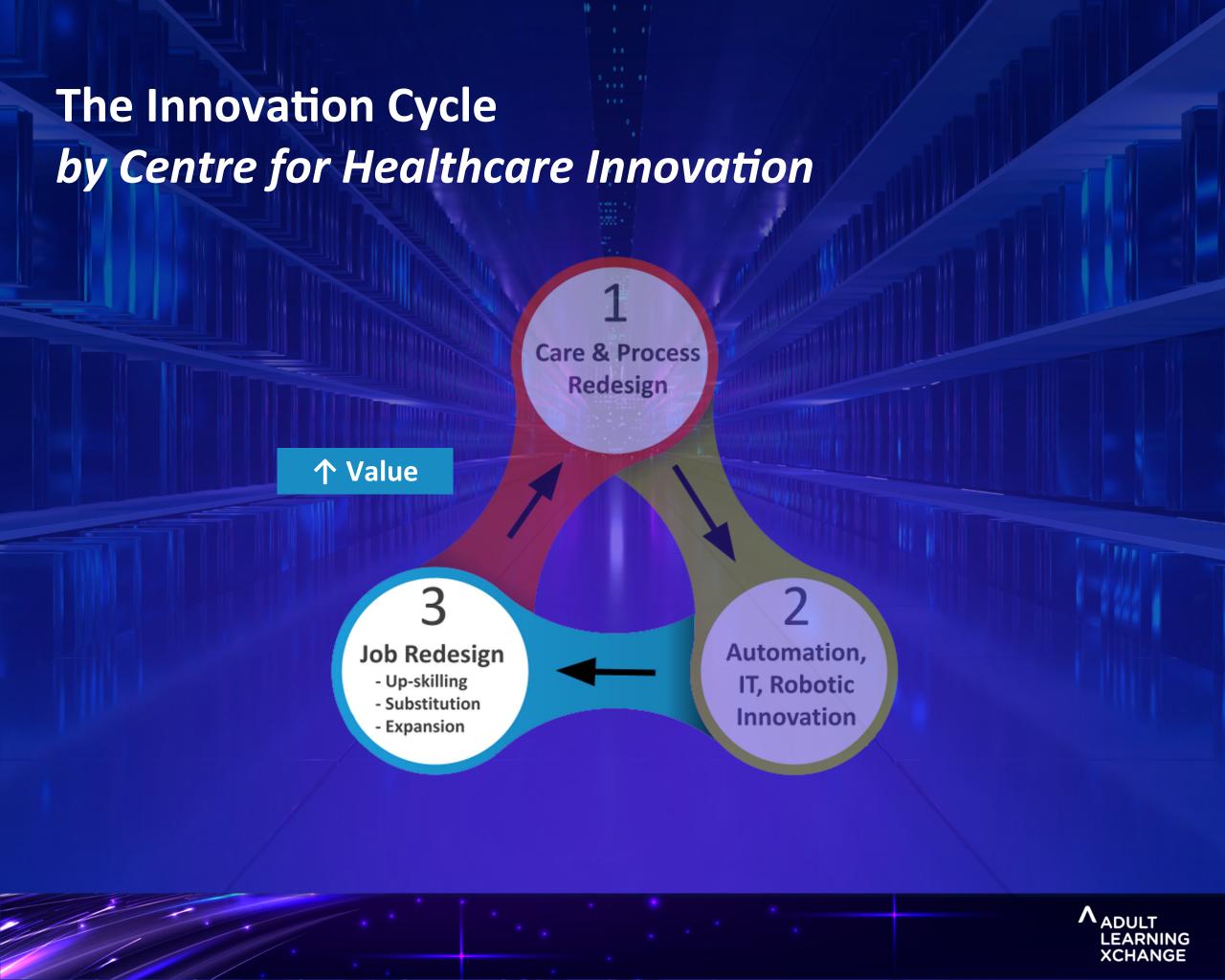
Training to be Innovative, Be Innovative in Training

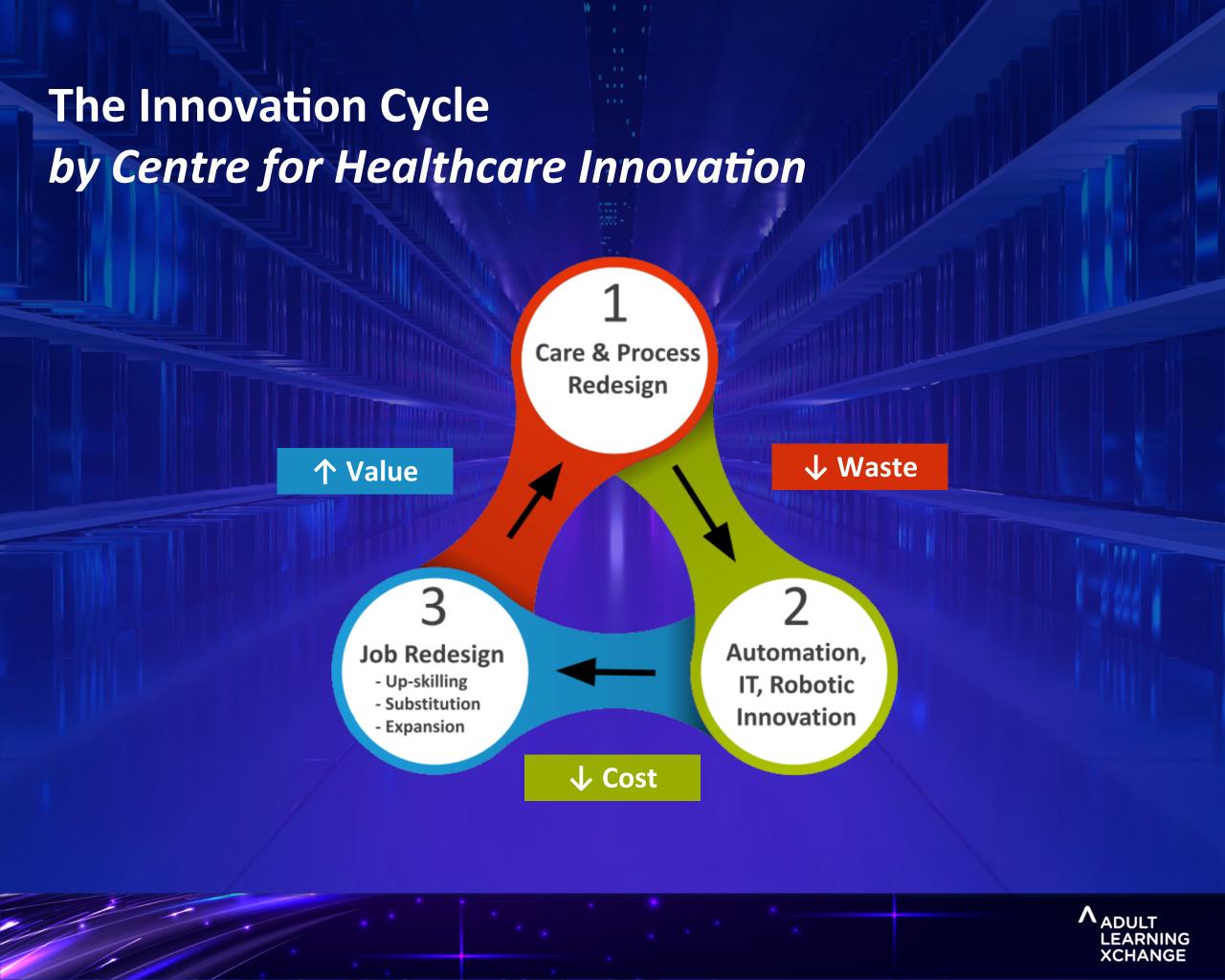
- Nurturing Innovation Mindsets
- Developing Technical & Soft Skills











Workforce Transformation Strategies

Job Redesign

Individual

Team

Trans-disciplinary

Digitally-enabled

Individual Job Redesign



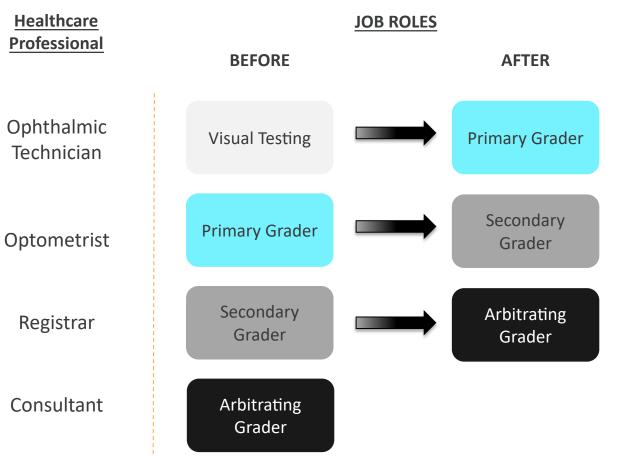
Patient Service Associates are upskilled to perform higher value roles

- + Administrative
- + Training
- + Support

Team-based Job Redesign

Diabetic Eye Screening

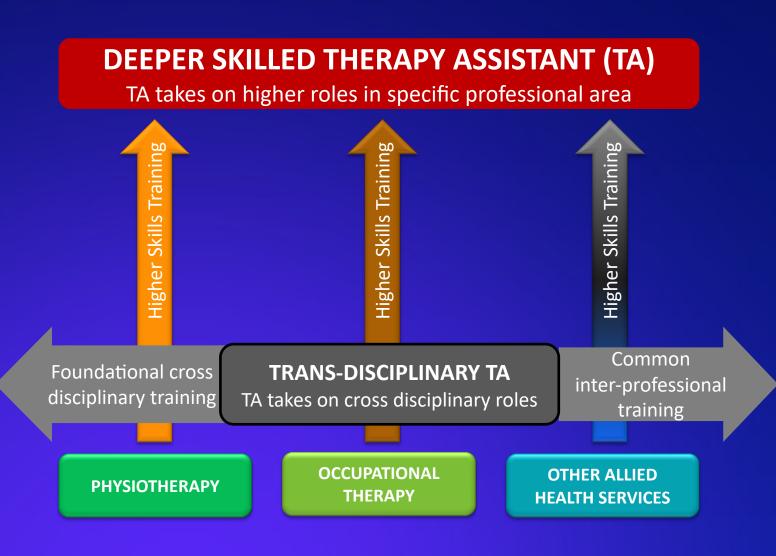




Trans-disciplinary Job Redesign



Therapy Assistant (TA)



Digitally-Enabled Job Redesign

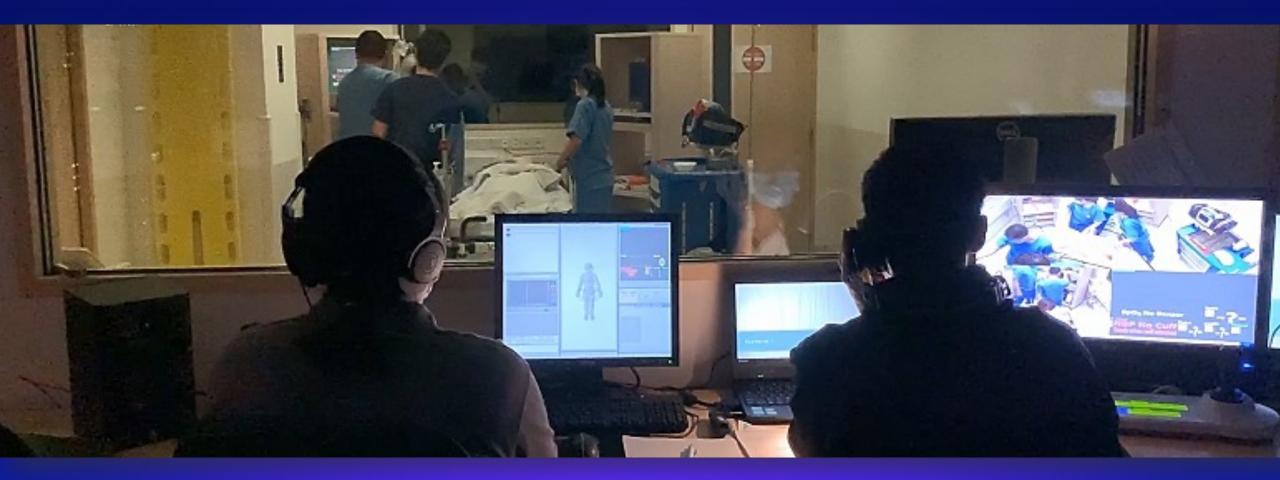
Ward Without Walls



Nurse-led Intravitreal Injections



Simulation-based Technical Training





Safe and Controlled Environment

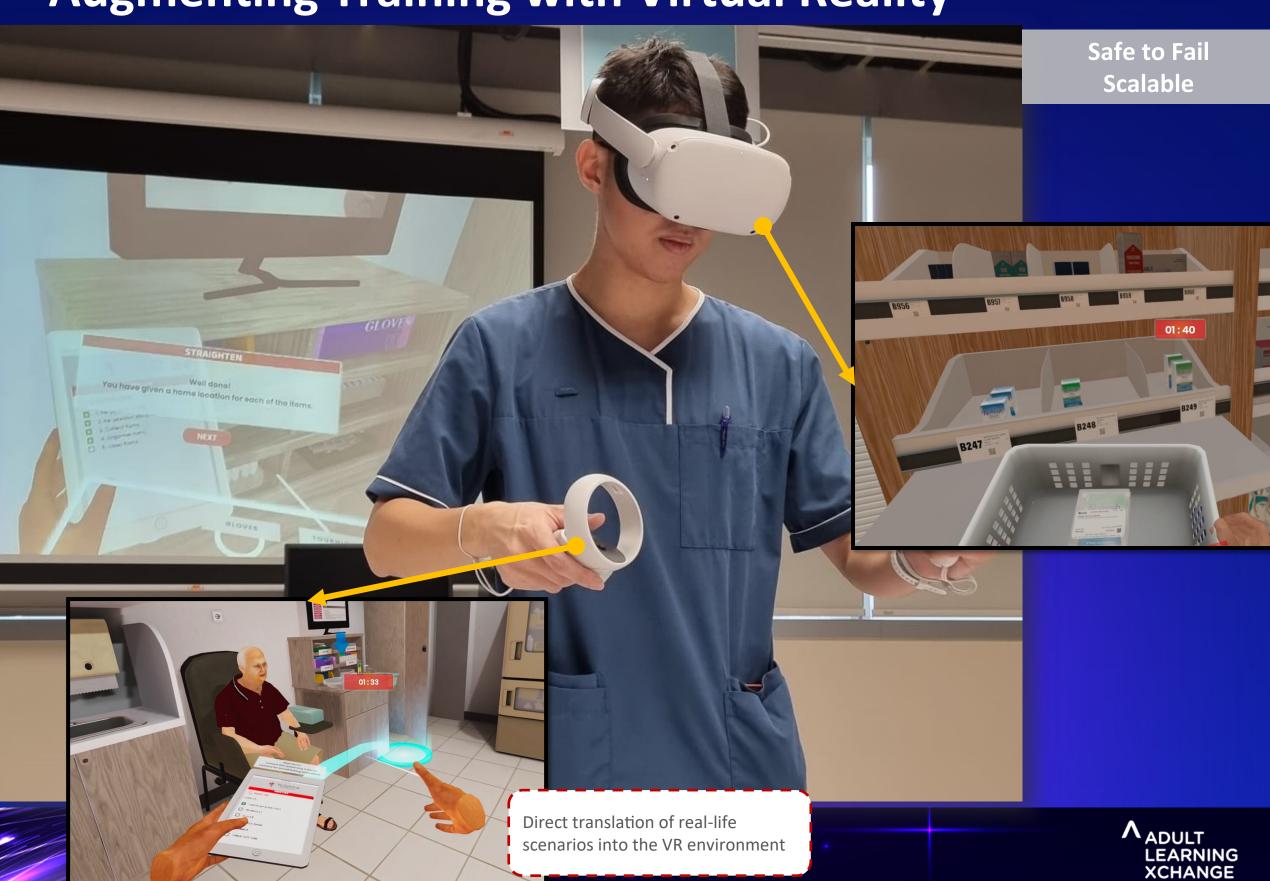


Immersive and adaptive educational experience

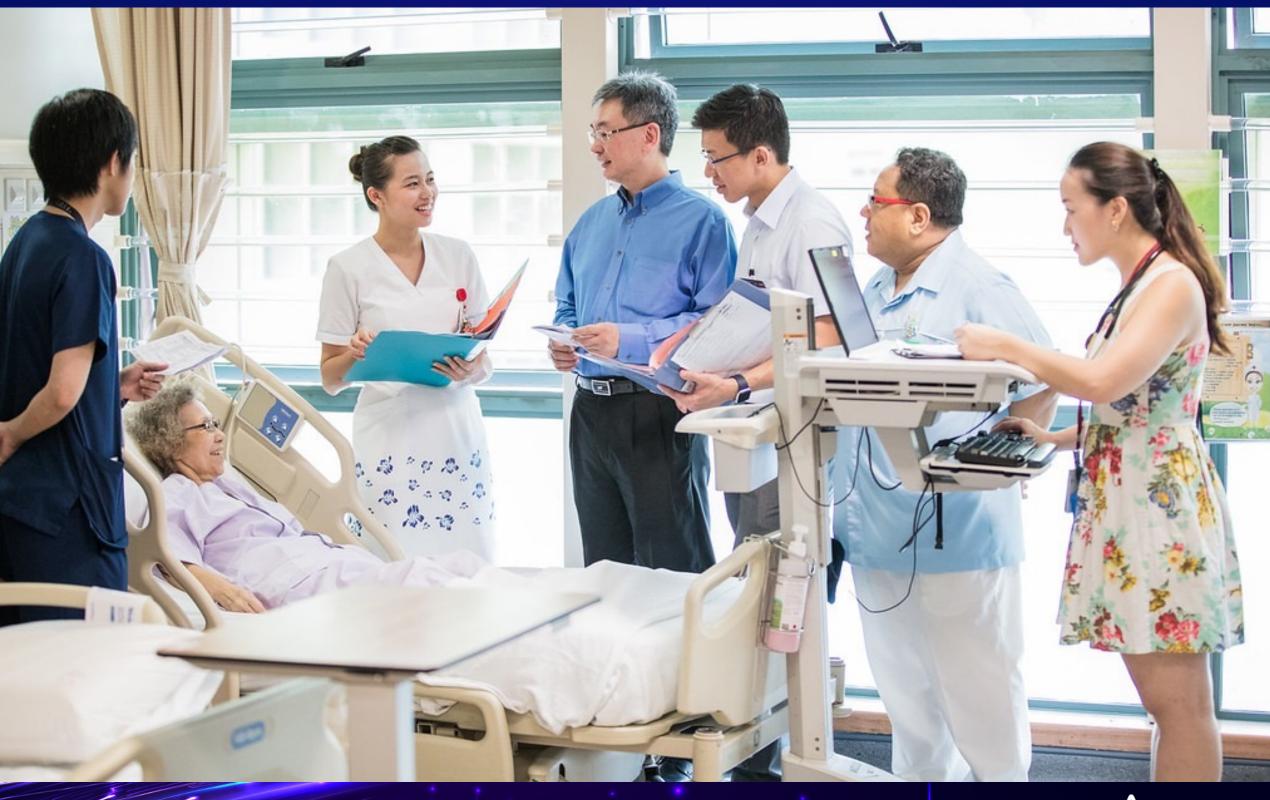


Improve practical and decision-making abilities

Augmenting Training with Virtual Reality



Collective Leadership



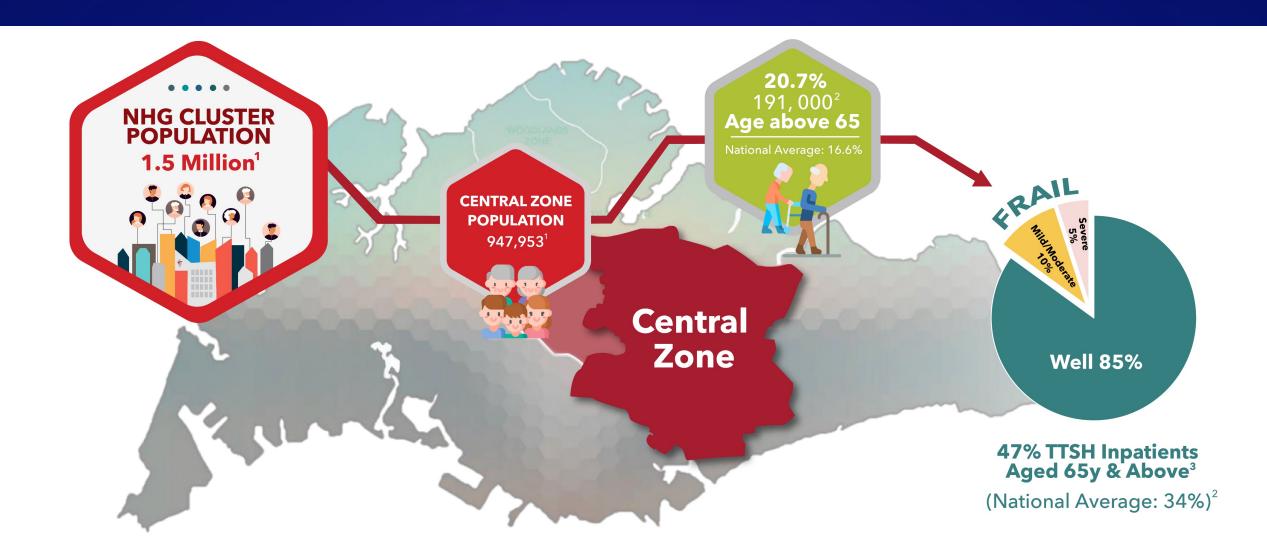
Building Communities of Practice – CHILD



Vision of CHILD

A national **Knowledge Management platform** for healthcare innovators to connect and to share knowledge related to **healthcare productivity, innovation** and **improvement**





¹NHG CRM, Sep 2023

² MOH 2020 Statistics

³TTSH QMIS Annual Report 2020





Thank You









