ADVANCED MANUFACTURING

Providing end-to-end solutions for manufacturing and design problems using the extensive resources of Griffith University

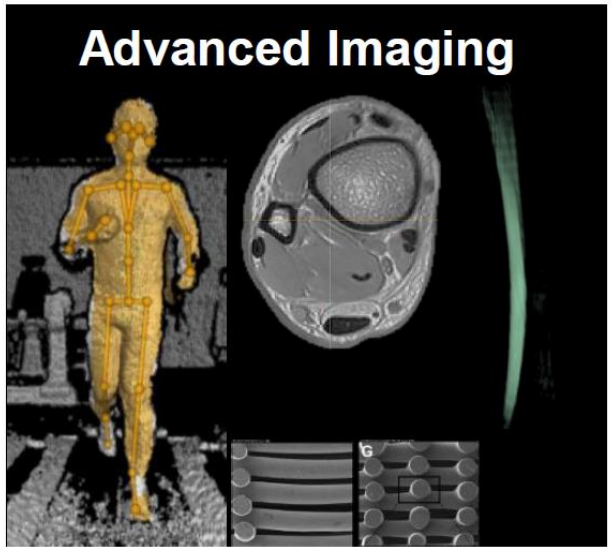
– **Troy Baverstock**
Design student, Bachelor of Digital Media

Griffith UNIVERSITY
Queensland, Australia

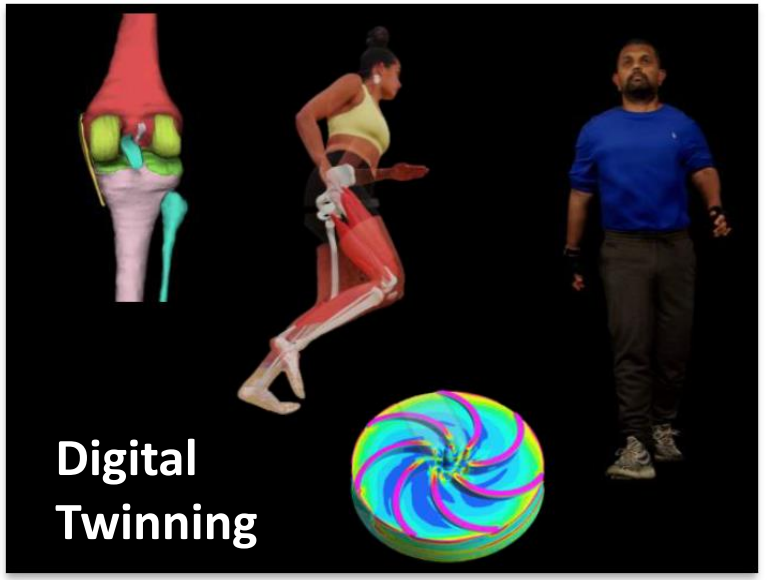
GRIFFITH UNIVERSITY

ADaPT CAPABILITIES

Advanced Imaging



Digital Twinning

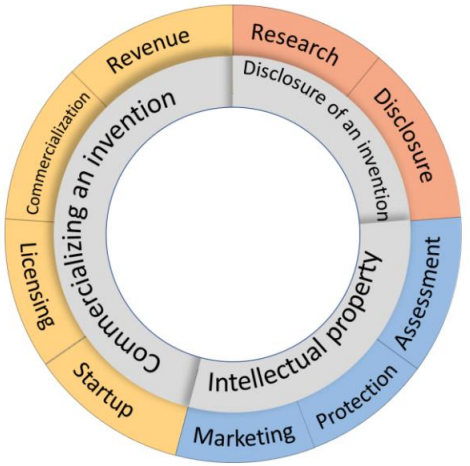


3D Printing

Data Analytics

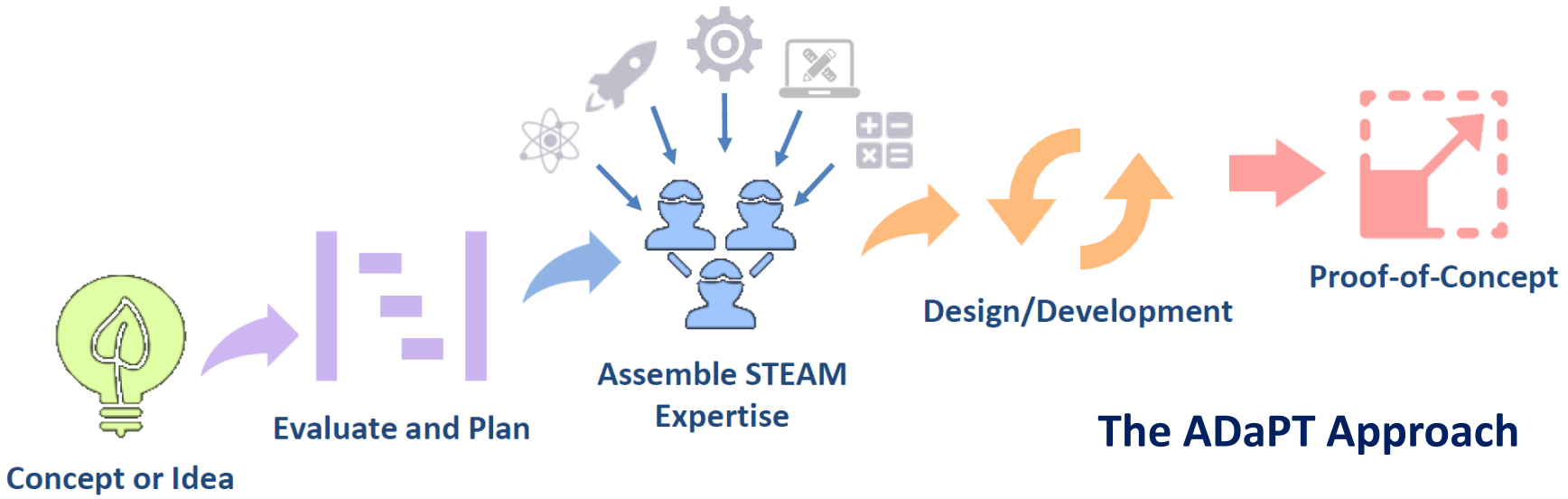
Advanced Design

Digital Business Innovation



EDUCATION AND TRAINING

- Disruptive technology impact
- Sustainability and strategic development
- Engineering for AM
- Digital manufacturing
- Industrial design
- Fabrication



RESEARCH EXPERTISE

Additive Manufacturing
- Prof Stefanie Feih; Prof Shoujin Sun

Micro- and nanotechnology
- Prof Nam-Trung Nguyen; Prof Dzung Dao; Prof Sima Dimitrijev

Materials Development
- A/Prof Wayne Hall ; A/Prof Hassan Karampour

AI; Machine learning; Data management
- Prof Alan Liew; Prof Yongsheng Gao; A/Prof Andrew Busch

Strategic digital business innovation; Organizational management
- Prof Jennifer Loy; Prof Paula Brough ; A/Prof Nagesh Shukla; A/Prof Luke Houghton

Education; Training; Specialist coursework
- Prof Rosalind Archer; Prof Sharyn Rundle-Thiele

Biomedical engineering; Biomechanical engineering
- Prof Yin Xiao; Prof David Lloyd; A/Prof David Saxby; A/Prof Michael Simmonds

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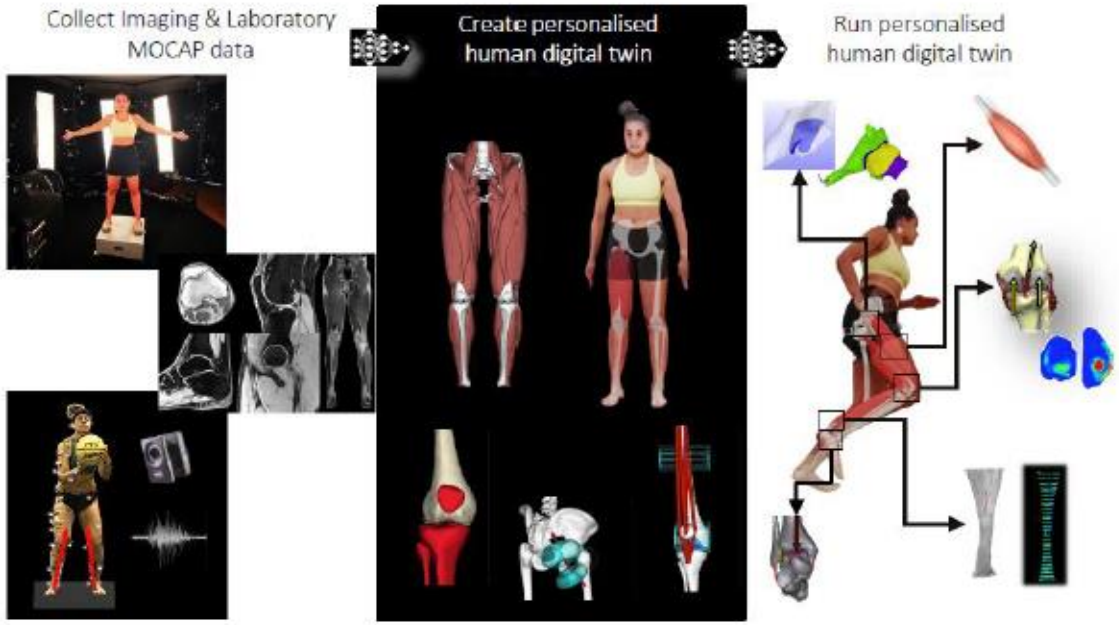
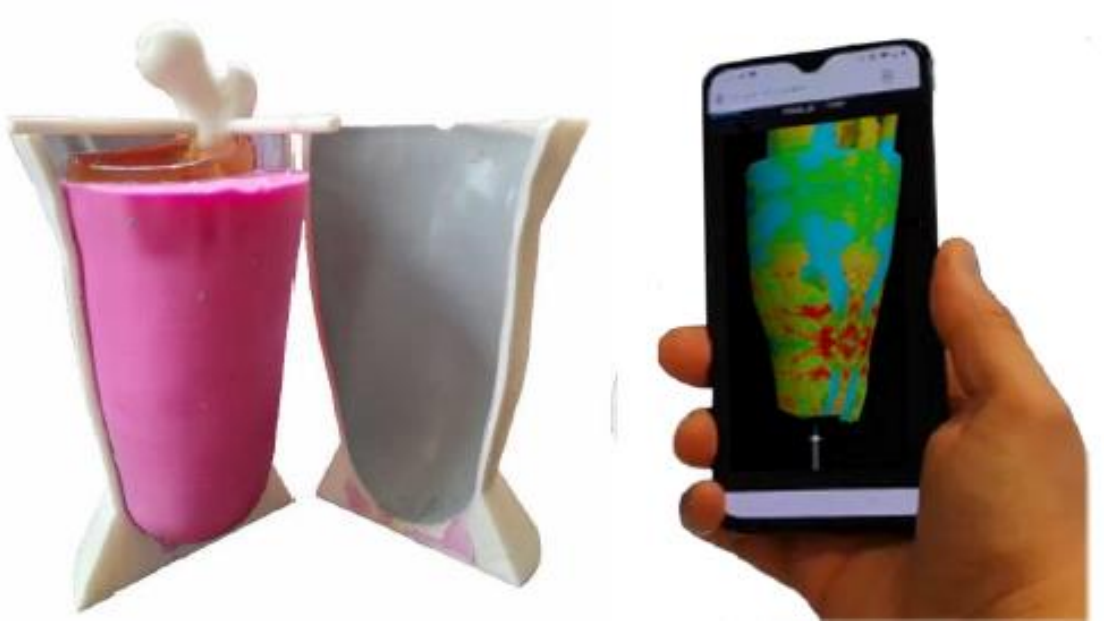
DIGITAL TWINNING



- Image collection
- Model creation
- Model analysis
- Projects funded by various sources (NHMRC grants, ARC grants, Motor Accident Insurance Commision, etc.)

MATERIALS DEVELOPMENT



- Materials development & testing
- Physical twin prototype design
- Research funded by NHMRC, US Department of Defense

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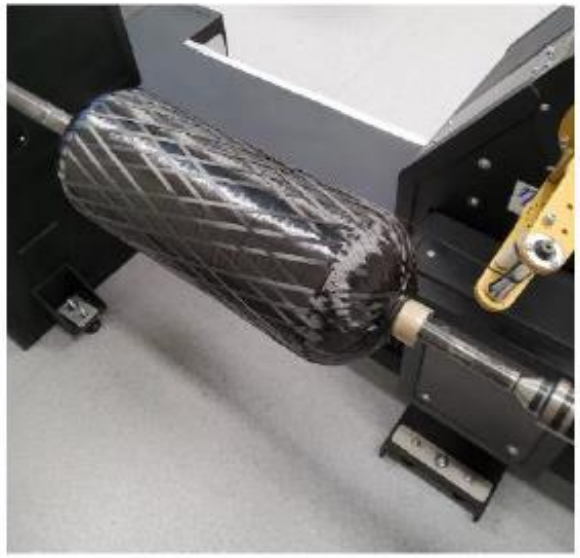
INDUSTRY ENGAGEMENT
GILMOUR SPACE TECHNOLOGIES



- Carbon fibre filament winding
- Cryogenic material characterization
- Prototype delivery and testing
- Project funded by CRC-P grant

GILMOUR SPACE

INDUSTRY ENGAGEMENT
QUEENSLAND HEALTH

- Image segmentation & model creation
- Virtual planning & optimisation
- Additive manufacturing
- >35 surgeries completed

Gold Coast University Hospital

Children's Health Queensland Hospital and Health Service

mater

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