



Outstanding innovation & technology
transforming patient-specific surgery and
health literacy.

Investor Presentation
June 2021

Singular Health Group Limited | ASX: SHG | ABN 58 639 242 765



www.singular.health

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3D Printing: Singular Health is a 25% stakeholder in what will be one of the largest dedicated medical 3D printing facilities in Australia.



Scalable: Singular Health is implementing a “Direct to Patient”, “Direct to Practitioner” model with recurring revenues and potential virality.



Enterprise: Integration of Virtual Surgical Planning (VSP) is underway with Lyka Smith to lead Australian distribution at \$300/month with 50 initial orders.



Governance and Funding: Strong Board with ASX Medical and Technology expertise. Well funded with clean capital structure and low burn rate.



Disruptive: Completely platform neutral architecture for 3D imaging and surgery planning with the potential to disrupt and gain market share from existing solutions.



Research and Development: Continued access to non-dilutive funding with strong strong research and development pipeline leveraging publicly funded research organisations including universities and CSIRO.

\$4.48 USD
BN

The Global Market¹ for Medical Software &
3D Printing

“

Accelerating the process of surgical planning and preparation through AI-driven segmentation and local additive manufacturing capabilities is key to creating significant value in this rapidly growing market of patient-specific surgery.

- Thomas Hanly, CEO

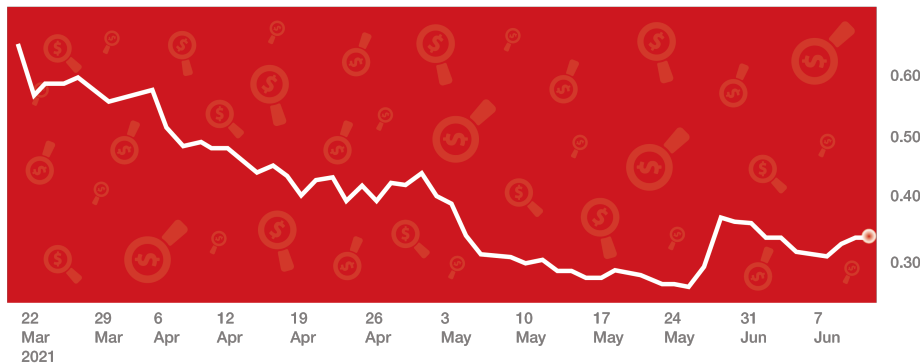
Company snapshot

Share on Issue	102,798,867
Share Price as at 14/06/2021	\$0.35
Market Cap	\$35,979,603
Cash at Bank	\$4.3M
% Escrowed	42.2%
Chairman	Howard Digby
CEO/MD	Thomas Hanly
Sector	Medical Technology

Founded in 2017, **Singular Health Group Ltd** is an Australian-based medical technology company with a proprietary volumetric rendering platform which leverages existing 2D radiological images to generate fully-immersive, patient-specific 3D/VR models.

Singular Health recently acquired 25% shareholding in a medical-grade 3D printing company in Melbourne and Virtual Surgical Planning software (VSP). These investments set in motion the **Scan to Surgery** initiative. A world first, vertically integrated Singular Health platform.

SHARE PRICE 22/03/2021 to 14/06/2021



LIQUIDITY

Free Float
57.6%



Escrowed
42.4%

Patients with low health literacy were

59%

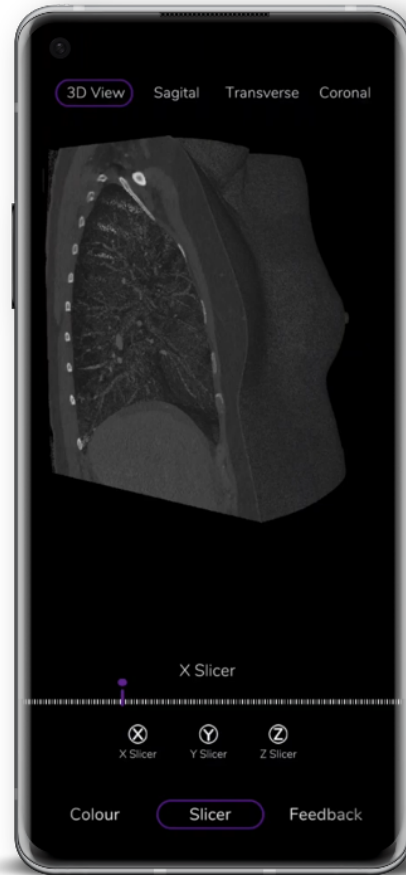
More likely to be readmitted after surgery²

and only...

40%

Australians have adequate health literacy³

Yet...



Demand is high

24%

&

12%

=

80 million

CT Scans⁴

&

40 million

MRI Scans⁴

Of **Americans** had a CT Scan in 2019⁴

Of **Americans** had an MRI⁴

Visualising better patient outcomes



Cross Platform



Affordable



Health Literacy
and Engagement



Improved
Treatment Plan
Adherence

How Singular Health is Developing Better Health Literacy

85% of patients want to see their scans – a recent American study finding 85% of patients wanted to see their radiological images⁵.

Using 3Dicom, practitioners can annotate, measure and even add video/voice recordings and share these files with patients to view in 3D on mobile, tablet, desktop, laptop, and even VR.



Scan to Surgery™ initiative

Patient Specific Implants provide:



Improved alignment⁶



Reduced intra-operative blood loss⁶

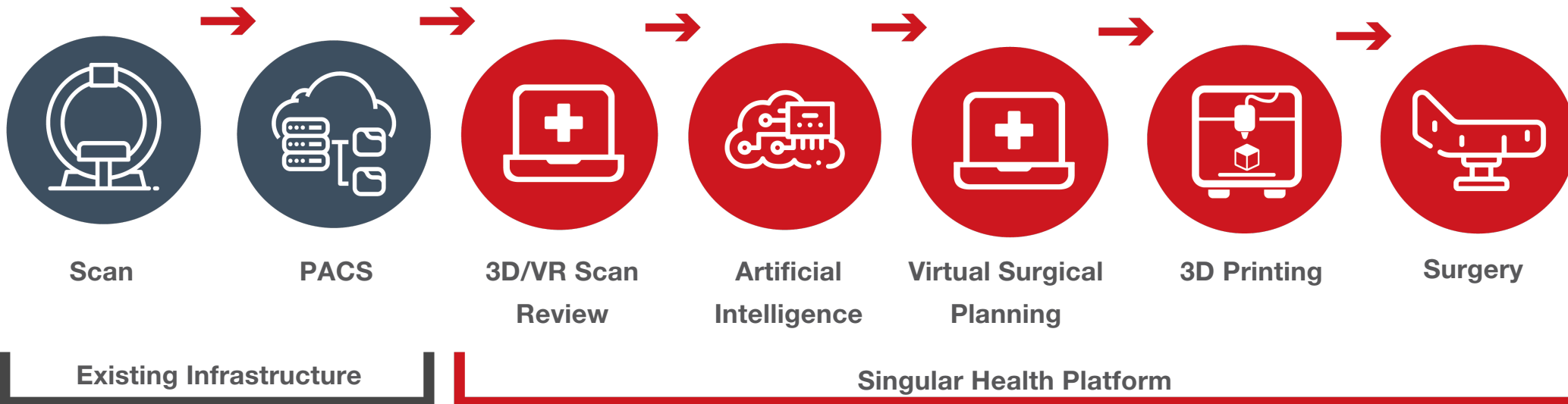


Reduced length of hospital stay⁶



Significant cost benefits⁶

Delivering benefits from the initial diagnostic stage right through to surgery.



Scan – leveraging existing infrastructure

Singular Health utilizes existing CT, MRI, & PET scanners which typically capture a series of images as multiple 2D 'slices' of the body.

Singular Health's platform reads and accurately interprets the DICOM meta-tags on each and every slice during the scan load.

\$16 **USD**
Billion

Global medical imaging market⁸

27M

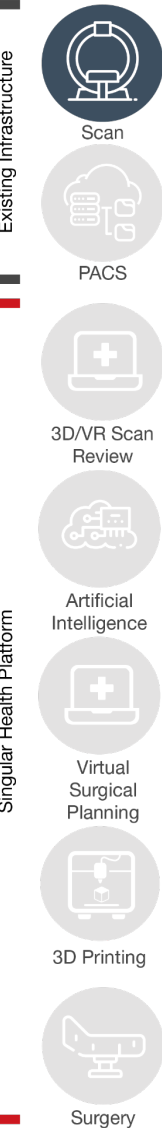
Diagnostic Images in
Australia 2017⁷

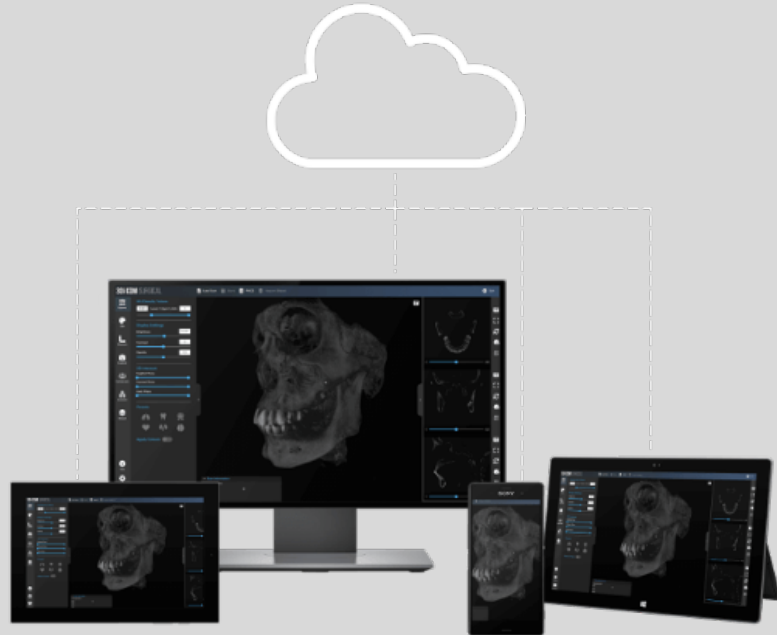
1000

CT Scanners in
Australia⁷

359

MRI scanners in
Australia 2017⁷





Estimated market value⁹

\$2.66 USD Billion

and CAGR **5%**

Global Picture Archiving & Communications Systems (PACS)

PACS is the infrastructure which medical images are stored and transferred between the scanner and the server.

Singular Health's medical software product **3Dicom**, integrates with the vast majority of PACS servers, allowing for the easy retrieval of DICOM files for viewing in fully-immersive 3D/VR.



3D/VR scan review

Global Medical Imaging estimated market value¹⁰

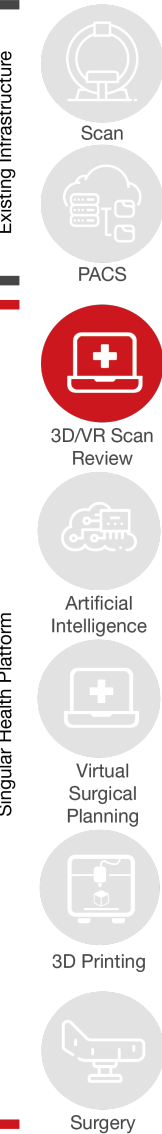
\$2.4 USD Billion

and CAGR **8.18%**

Interactive 3D models on desktop and has been technically proven to work on standalone VR headsets, tablets and mobile phones.



3Dicom aims to **diagnose, analyse, and provide patient education/informed consent** using the raw radiological images across a diverse range of medical specialties.



Artificial intelligence (AI)

Global Artificial Intelligence in Medicine estimated market value

\$1.5 USD Billion

and CAGR **30.4%**



Accelerated Semi-automated segmentation



Reduced manual process

Application of AI into Scan to Surgery

AI will enable pre-operative planning and intra-operative guidance thereby **saving time, reducing medical error** and **improving overall patient management** and outcome.

Accurate Diagnosis



Improved Analysis



Better Decision-making



Segmented spine

10 minutes SHG AI model



Up to 4-5 hours Manual processing



Existing Infrastructure



Scan



PACS



3D/VR Scan Review



Artificial Intelligence



Virtual Surgical Planning



3D Printing



Surgery

Singular Health Platform

Virtual surgical planning

Global Surgical Planning Software market estimated value ¹¹

\$84 USD Million

and CAGR **5.2%**

Global Surgical Simulation & Training market estimated value ¹²

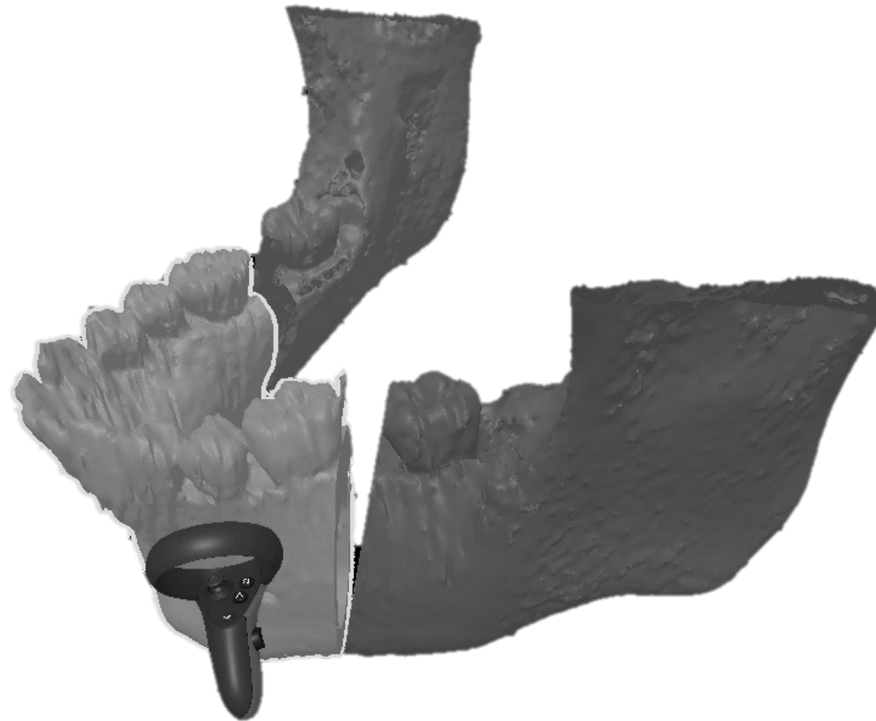
\$337 USD Million

and CAGR **16.4%**

How it works

Radiological scans are converted from 2D images into editable 3D computer aided design (CAD) files.

These are then used to design drill and cutting guides, splints and implants.



2D

converted to

3D

Existing Infrastructure



Scan



PACS



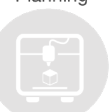
3D/VR Scan Review



Artificial Intelligence



Virtual Surgical Planning



3D Printing



Surgery

Singular Health Platform

3D printing

Singular Health has invested \$300,000 to build one of Australia's largest dedicated medical 3D printing facility which will accelerate typical surgical planning and reduce lead times for surgeries in Australia through local printing.



Global Medical 3D printing market estimated value¹³

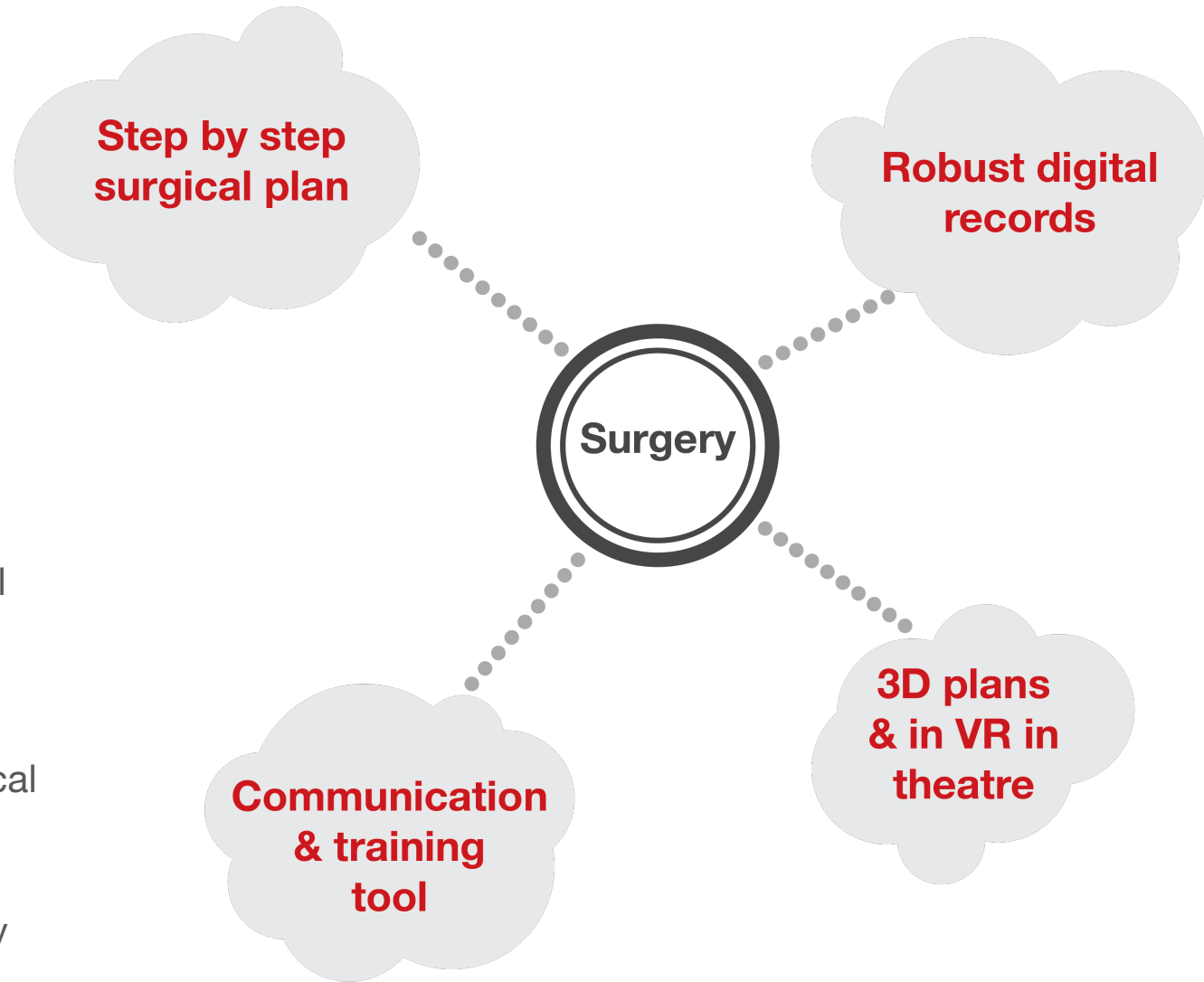
\$2.4 USD **BILLION**

and CAGR

16.3%



- ✓ Will enable surgeons to view an interactive step-by-step surgical plan with all of their notes from their pre-surgical planning session.
- ✓ Medico-legal; records steps taken. Checklists will create a digital record of surgeries for the surgical staff, and 'medical precedents'.
- ✓ Use as communications/training tool for briefing all members of surgical team prior to complex surgeries.
- ✓ Preoperative & intra-operative surgical plans will be available via 3Dicom Surgical & 3DicomVSP for review on tablet in theatre and in Virtual Reality prior to surgery.



Existing Infrastructure

- Scan
- PACS

Singular Health Platform

- 3D/VR Scan Review
- Artificial Intelligence
- Virtual Surgical Planning
- 3D Printing
- Surgery

Regulatory pathway

- ✓ Singular Health has commenced the development of a Quality Management System (QMS) to proceed with **ISO13485** Certification.
- ✓ MedVR currently registered on **Australian Register of Therapeutic Goods** (ARTG) as Class I Medical Device
- ✓ Singular Health will continue to pursue AI applications through its strong research and innovation program with leading institutions.
- ✓ Singular Health anticipates application for **TGA Class II** registration by Q4 CY2021 and **FDA510(k)** clearance for 3Dicom Surgical & 3DicomVSP in Q1 CY2022
- ✓ **AI models** require clearance, through the **FDA510(k)** process using predicate devices for most models with an anticipated processing evaluation period of 6-7 months from application.

The pathway to
enterprise sales



Board and senior management



Howard Digby

Non-Executive Chairman

Over 25 years' experience managing technology-related businesses in the Asia Pacific region. Howard is Currently a Non-Executive Director of 4DS Memory, Elsight, Cirralto, Vortiv and previously ImeHXS.



Thomas Hanly

Managing Director & Chief Executive Officer

A seasoned executive having held various board positions with a number of privately held companies in Australia and Singapore.. Holding a Bachelor degree in Resource and Environmental Economics.



James Hill

Chief Operating Officer

An experienced professional in the commercial technology sector, having held directorships with a number of private companies. James graduated from UWA with a Bachelor of Commerce (Marketing and Management).



Andrew Just

Non-Executive Director

Over 25 years of global senior executive experience in the healthcare industry. With a Bachelors degree in economics & business law from Macquarie University, a diploma in health economics from Monash University, and an MBA from AGSM University of Sydney.



Denning Chong

Non-Executive Director

One of the founders of Singular Health, Denning has been the principal of James Chong lawyers since 2004. Denning has held various directorship positions working with companies across the medical technology, property and financial sectors.



Thomas Morrell

Chief Technology Officer

Graduating from Staffordshire University with First Class Honours in CGI & Digital Effects, Thomas has worked for a number of well-known companies developing photogrammetry, 360 media and mixed reality applications.



Prof. Kwang Guan Tay

Executive Director of Research & Innovation

Holding a PhD from the Centre for Molecular Immunology and Instrumentation from UWA, an MBA and Bachelor of Science (Biotechnology and Biological Sciences Double Major) with Honours (BSc(Hons)) from Murdoch University.



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