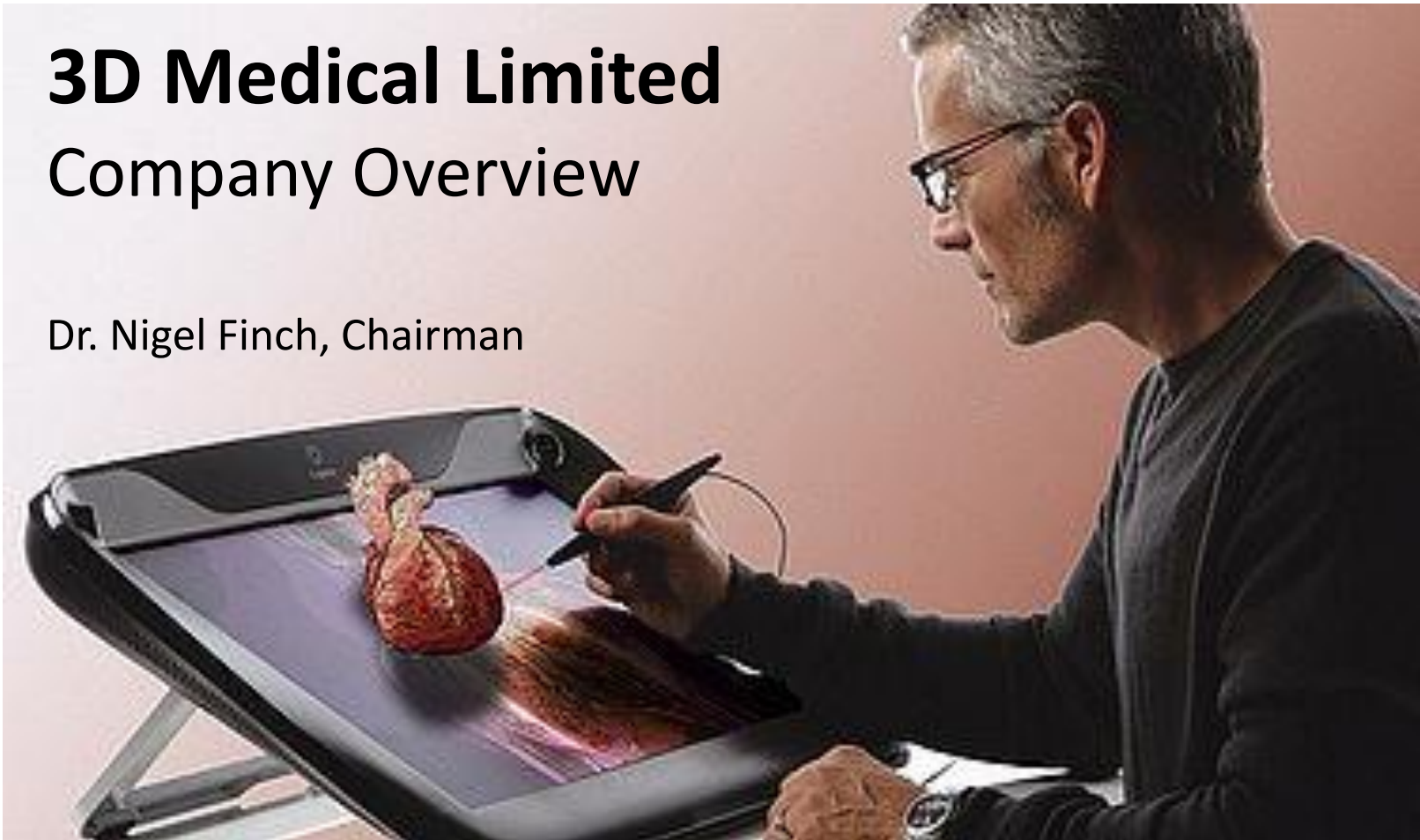


## 3D Medical Limited Company Overview

Dr. Nigel Finch, Chairman



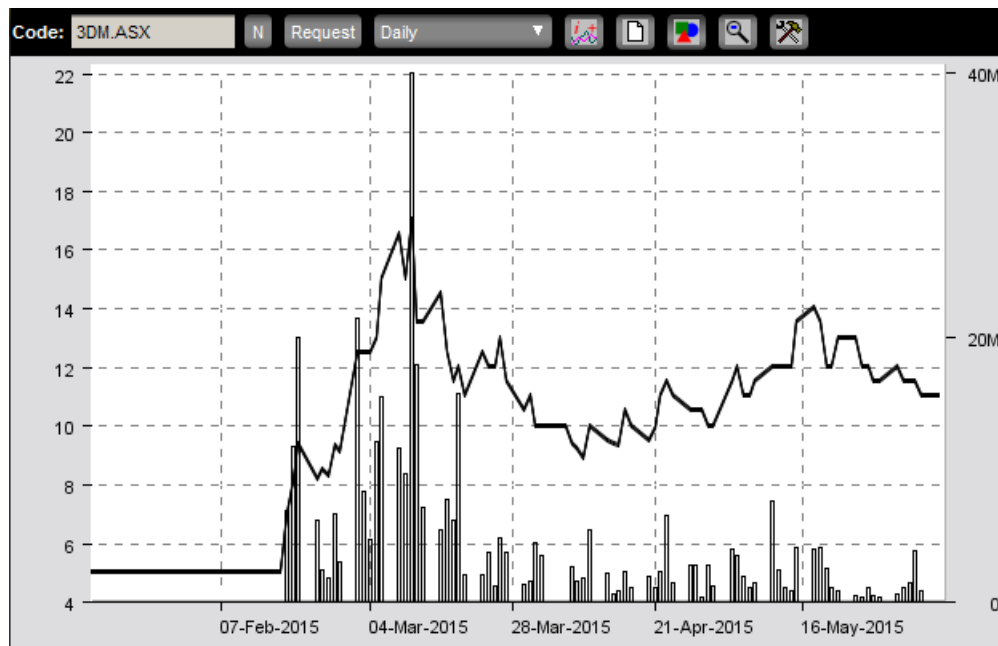


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# 3D MEDICAL LIMITED (ASX: 3DM)



***3DM's objective is to be the preferred partner for managing and utilising 3D imagery and data in the clinical setting***

- RTO of Safety Medical Products (ASX:SFP) completed Feb 2015
- Raised \$4.1 million under prospectus @ \$0.05 per share
- Shares on issue: 375 million
- Market capitalisation: ~\$40 million
- Cash position: \$3.5 million at March 2015



# 3D TECHNOLOGY AND HEALTHCARE

- Digital healthcare is now a reality
- **Personalised data** is increasingly being captured in high quality digital data sets through the use of CT and MRI machines, 3D Ultrasound and intraoral laser scanning
- Australian clinicians refer **an estimated 10 million 3D volumetric images** in Australia annually
- Australian medical providers are known to be early adopters of new medical technology & techniques
- The opportunity exists to pave the way for the use of 3D technologies in the Australian medical industry with the potential to **improve diagnosis, patient care and treatment**
- The benefits derived from adopting 3D technologies include:
  - Positive patient outcomes by enabling pre-surgery planning and preparation
  - Economic benefits by reducing the time and cost of surgery
  - Enhanced teaching techniques with pathway to excellence in surgical training
- The Australasian medical market opportunity for advanced 3D technologies is significant and growing, driven by an **increasing demand for both personalised medical solutions and diagnostic imaging services**

# 3D MEDICAL

# PROCESS



Capture conventional DICOM data



2D cross sections

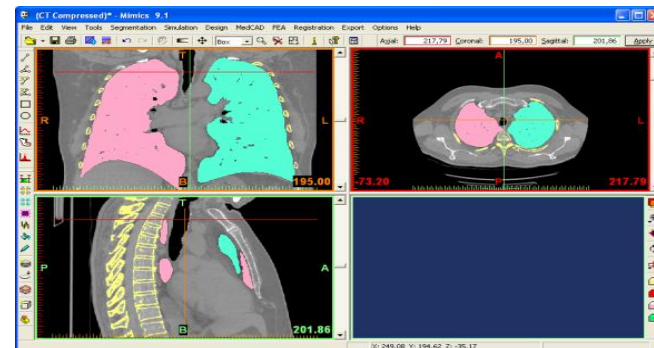
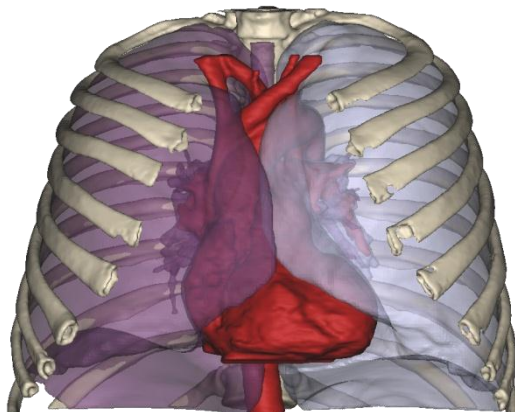


Image processing software

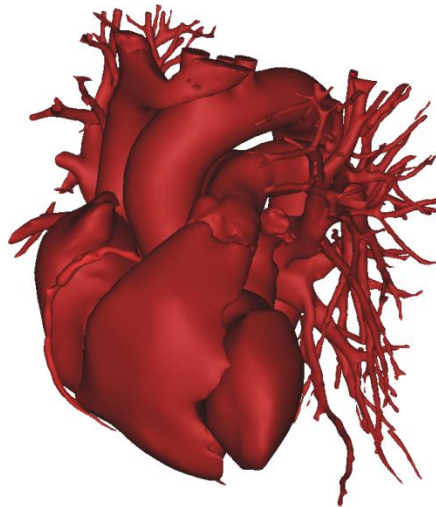


Anatomically correct 3D virtual reality model

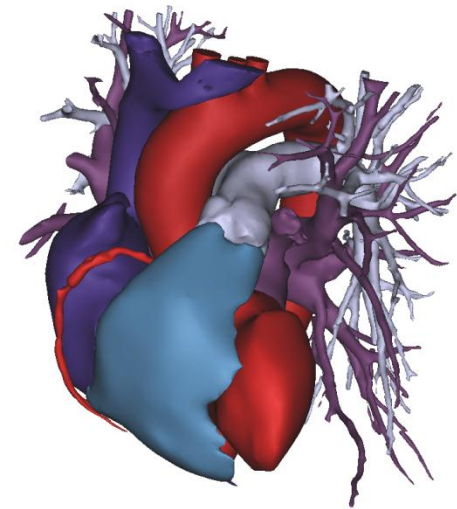
- Volume rendering for **diagnostic teams**
- 3D geometry for **clinical teams**



Volume rendering



Surface rendering





# 3D PRINTING MARKET APPLICATIONS



## Pre-Clinical

- Plan and practice early interventions
- Efficient physician communication
- Reduces cost



## Training/Education

- Understand the pathology
- Superior training
- Efficient communication



## Custom Implants

- Patient specific
- Faster procedures
- Decreased possibility of infection
- Better patient outcomes

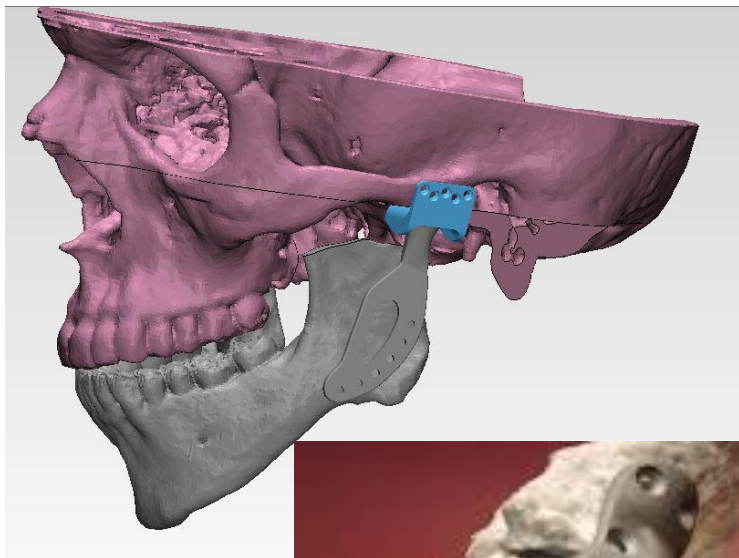
| Product                                                                                                                               | Description                    | Revenue                                                                                                                                                                     |
|---------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1.  TOUCH                                            | 3D printed models and implants | Sale of 3D printed models to surgeons for preoperative planning and education, patient communication, medical training and custom designed implants for surgical procedures |
| 2.  MACH7<br>TECHNOLOGIES<br>Unlock. Unleash. UnPAC. | Image management solutions     | Reseller of Mach7's image management solutions to hospitals and radiology clinics                                                                                           |
| 3.  VISUALIZE                                      | Holograms                      | Sale of EchoPixel Inc's holographic technology as a diagnostic aid and for preoperative planning                                                                            |
| 4.  GEST SURE                                      | In theatre image manipulation  | Sale of GestSure Inc.'s image viewing technology for maintaining a sterile environment in surgery                                                                           |

## ADVANCING MEDICINE WITH ADDITIVE MANUFACTURING



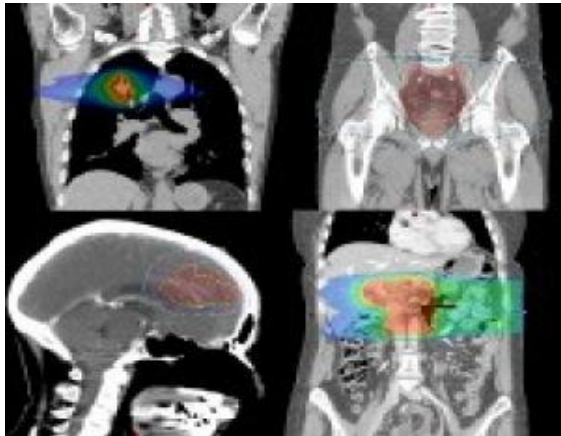
- Converts anatomical data obtained via CT or MRI scan into physical 3D models
- Works by systematically building up single layers of material to create tactile anatomical models that exactly replicate the data obtained by CT or MRI
- Colour printing highlights anatomical structures & pathologies
- Models can be cut, drilled, or used as visual aids in diagnosis, surgical planning or patient communication
- Can improve efficiency & accuracy in surgery – delivering better patient outcomes
- Supply chain secured via purchase and supply agreement for exclusivity in the medical sector to procure models from largest medical imaging provider in Australia

## ADVANCING MEDICINE WITH ADDITIVE MANUFACTURING



- Anatomical data obtained from conventional scans and capture joint detail and anatomical landmarks
- Medical implants can be created in virtual reality CAD environment by biomedical engineers
- Implant is completely customised to each clinical case using the best design and material composition to suit the unique pathology of the patient
- Implant can be printed in a few hours in a sterile environment and shipped to the hospital
- Disrupts the existing multi-billion dollar 'standard size' implant market and radically reduces surgery time in complex or unique cases
- Existing relationships with key hospitals, University's and surgical teams

## ADVANCING MEDICINE WITH ADDITIVE MANUFACTURING



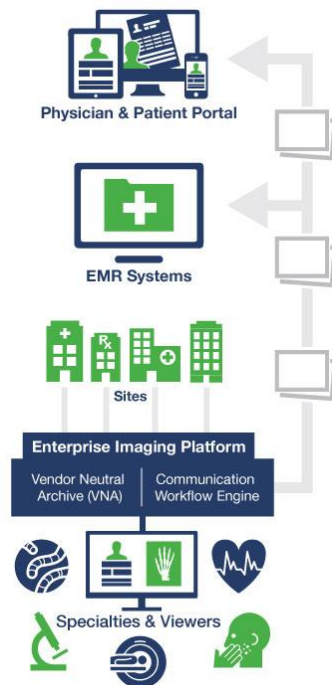
- Customised healthcare through the design of surgical consumables
- Existing medial image scans are used to personalise single-use items in surgical and clinical treatment contexts
- Highly specialised patient-specific tools can be designed and manufactured for use in surgery
- Electron beam radiation shields can be to target radiotherapy treatments and protect unaffected areas
- Bespoke surgical consumables lower the inventory cost for hospital, decrease the time for surgical and clinical treatments and improve patient outcomes





# IMAGE MANAGEMENT SOLUTIONS

## MACH7



- 3DM have secured Australasian rights to distribute and resell Mach7's image management solutions
- Providing healthcare businesses with whole of enterprise image management systems and services that allow them to easily identify, connect and share diagnostic images and patient care intelligence where and when it is needed
- Mach7's Vendor Neutral Archive allows consolidation of image storage irrespective of the disparate legacy systems the healthcare business is running
- It simplifies access, increases data integrity and heightens security over images and data
- Reseller Agreement with Telstra Health will generate toll-based fee for data packages that travel across Telstra's cloud-based system



# HOLOGRAPHIC PROJECTION

Brand name 'Visualize'

**POWERFUL IMAGING TECHNOLOGY WITH THE POTENTIAL TO SIGNIFICANTLY ALTER THE PRACTICE OF MEDICINE**



- Highly sophisticated viewing technology that converts a CT or MRI image into a 3D hologram of the anatomical part, suspended in open air
- Key partnership in place with Silicon Valley based Echopixel Inc.
- Clinicians can interact with the hologram as if it were a real physical object. Possible to manipulate, crop, dissect or segment using a hand-directed stylus
- Improve practitioner efficacy & workflow, provide greater insight into patient anatomy & pathology, & accelerate the pathway to excellence in medical education and training
- FDA approved diagnostic tool



# IN THEATRE IMAGE MANIPULATION

Product name 'GestSure'

## ACCESSING DIGITAL PATIENT DATA IN THEATRE USING SIMPLE HAND GESTURES



- Sensor technology developed allows surgeons to manipulate diagnostic images through hand gestures increasing efficiencies and eliminating the need to scrub in and out of surgery
- Exclusive distribution and marketing rights for Australia & New Zealand
- Fast and sterile way to access patient information in the operating theatre that reduces risk of surgical site infection
- Potential to reduce operating times, costs & improve workflow
- Seamless integration into computer. No software or driver installation required
- Requires minimal IT support and compatible with all medical viewers



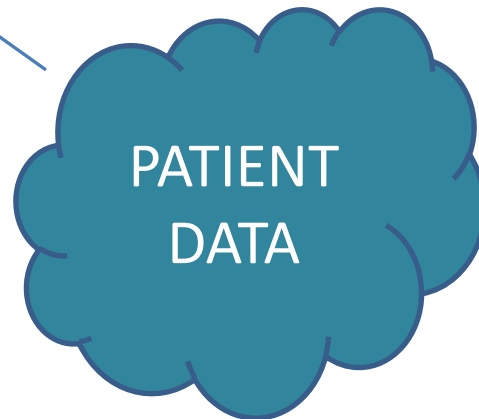
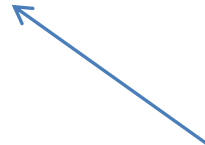
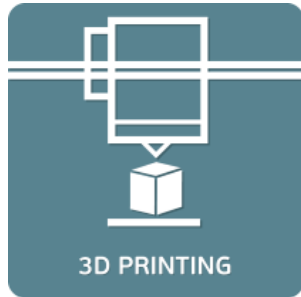
# DIRECTORS AND MANAGEMENT

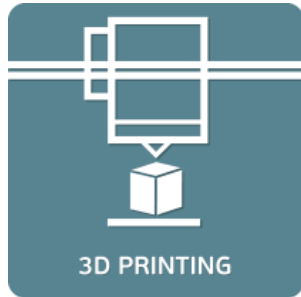
- **Dr Nigel Finch** **Chairman**  
**MCom, LL.M, MBA, Ph.D, CA, CTA, FCPA, F Fin, FTIA, FAICD**  
Principal at Saki Partners Transaction Advisers. Non Executive Director ASX: SKB  
Formerly CFO, investment manager, executive director and Associate Dean at the University of Sydney. Management and advisory experience with start up and early stage growth firms.
- **Frank Pertile** **Non Executive Director**  
**Grad Dip App Fin, F.FIN**  
Director of a privately held investment company that holds investments across property, listed and unlisted companies. He is Managing Director 333D, an emerging 3D printing business.
- **Stephen Hewitt-Dutton** **Non Executive Director**  
**CA, B.Bus., SA Fin**  
Associate Director Trident Capital. Non Executive Director ASX: RCM and ASX: FXR  
20 years corporate refinance experience and an experienced public company director.
- **Max Ghobrial** **Chief Executive Officer**  
**BSc (Genetics and Biochemistry)**  
Eight years at Siemens where he held account responsibility for some of Australia's leading healthcare institutions. He previously held senior roles at Tyco Healthcare and Singtel Optus.



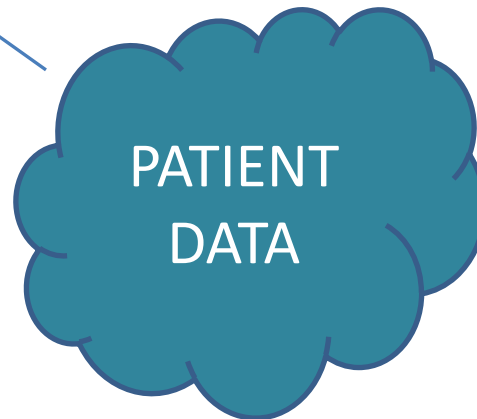
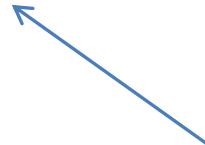
FOCUS ON DATA

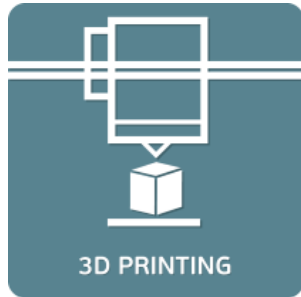






**ANATOMICAL MODELS**  
patient communication,  
surgical planning





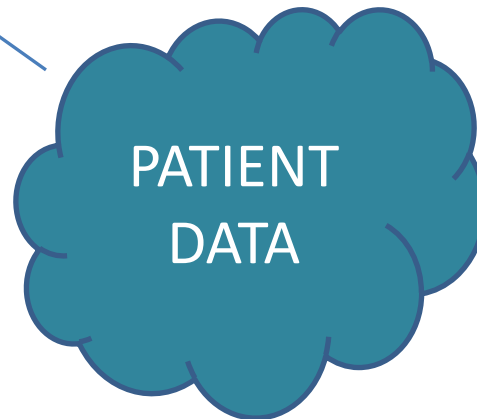
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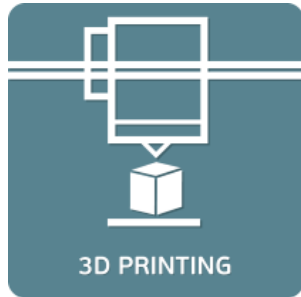
patient communication,  
surgical planning



### **ONCOLOGY**

patient-specific  
consumables





### **ANATOMICAL MODELS**

patient communication,  
surgical planning

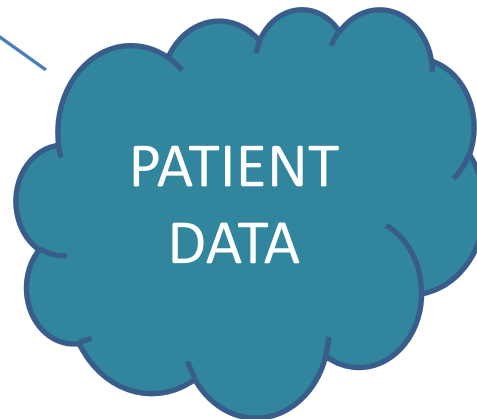


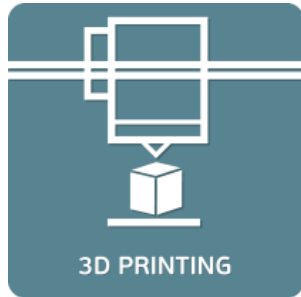
### **ONCOLOGY**

patient-specific  
consumables

### **SURGICAL IMPLANTS**

customised healthcare,  
advanced materials and  
medical-grade titanium



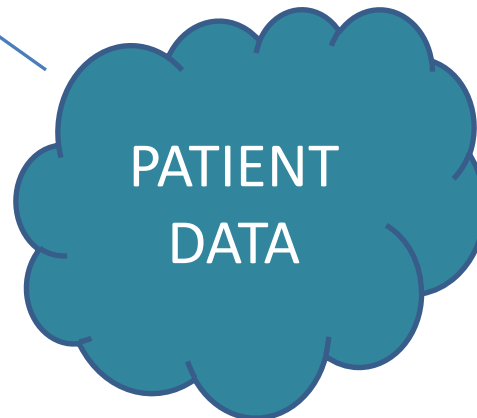


**ANATOMICAL MODELS**  
patient communication,  
surgical planning

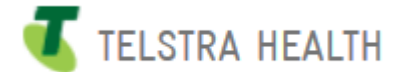


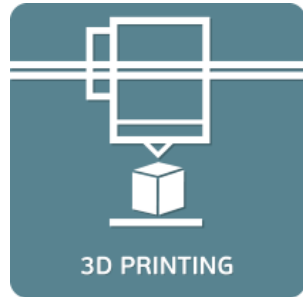
**ONCOLOGY**  
patient-specific  
consumables

**SURGICAL IMPLANTS**  
customised healthcare,  
advanced materials and  
medical-grade titanium



**MACH7**  
Vendor Neutral  
Archive (VNA)



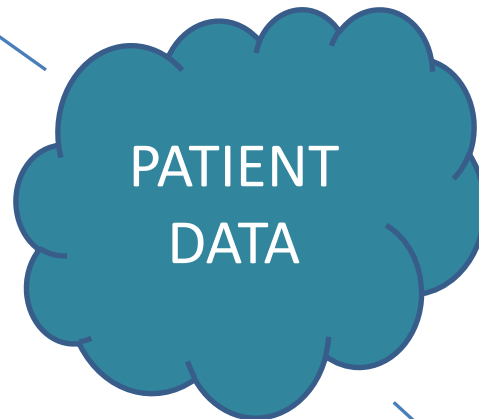


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patient communication,  
surgical planning

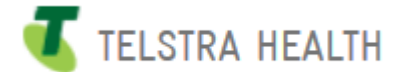


**ONCOLOGY**  
patient-specific  
consumables

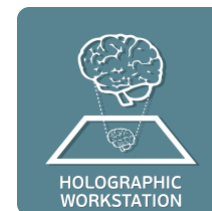
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customised healthcare,  
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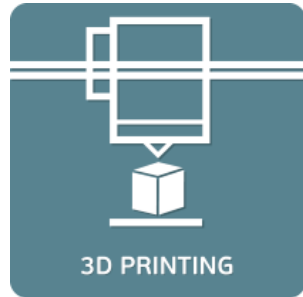


**MACH7**  
Vendor Neutral  
Archive (VNA)



**ECHOPIXEL**  
clinical efficacy  
and workflow



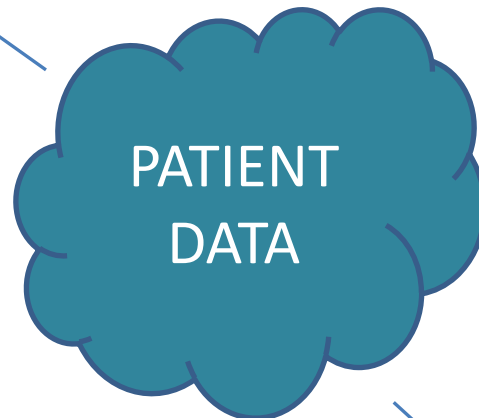


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surgical planning

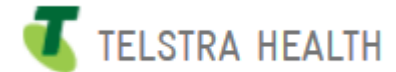


**ONCOLOGY**  
patient-specific  
consumables

**SURGICAL IMPLANTS**  
customised healthcare,  
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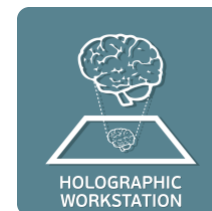
**MACH7**  
Vendor Neutral  
Archive (VNA)



**GESTURE**  
theatre image  
management



**ECHOPIXEL**  
clinical efficacy  
and workflow





## RECENT ANNOUNCEMENTS

| ASX ANNOUNCEMENT | 3DM BUSINESS IMPACT |
|------------------|---------------------|
|                  |                     |
|                  |                     |
|                  |                     |
|                  |                     |
|                  |                     |



## RECENT ANNOUNCEMENTS

| ASX ANNOUNCEMENT                                               | 3DM BUSINESS IMPACT                                                                                                             |
|----------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|
| <b>Exclusive supply agreement to Capital Health (ASX: CAJ)</b> | <b>Leading radiology group</b> in Australia. Foundation customer delivering more than one million medical image scans per annum |
|                                                                |                                                                                                                                 |
|                                                                |                                                                                                                                 |
|                                                                |                                                                                                                                 |
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|                                                                |                                                                                                                                 |
|                                                                |                                                                                                                                 |
|                                                                |                                                                                                                                 |



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| <b>3D printed metal jaw implant</b>                            | <b>Validates our model</b> to design and deliver implants and work with the spectrum of healthcare stakeholders (including insurers, hospitals, radiology and surgical teams) |
|                                                                |                                                                                                                                                                               |
|                                                                |                                                                                                                                                                               |



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|                                                                |                                                                                                                                                                               |



## RECENT ANNOUNCEMENTS

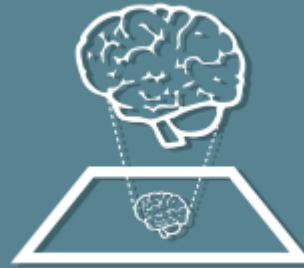
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| <b>Genesis CancerCare research collaboration agreement</b>     | <b>Largest oncology group</b> in Australia delivering 320,000 radiotherapy treatments per annum                                                                               |



3D PRINTING



THEATRE  
MOTION CONTROL



HOLOGRAPHIC  
WORKSTATION



ENTERPRISE  
IMAGING PLATFORM



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Chairman, 3D Medical Limited

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[www.3Dmedical.com.au](http://www.3Dmedical.com.au)