



ASX Announcement

31 October 2019

Optiscan Presentation at AusBiotech Conference

Optiscan Limited (ASX: OIL, Optiscan) provides the attached investor presentation which will be presented today at the AusBiotech Conference.

The Company also advises that a link to a recent interview carried out by Proactive Investors Australia with Chairman, Darren Lurie, has been placed on the Company's website at the following link: <https://www.optiscan.com/investors-media/news/>.

For and on behalf of Optiscan Imaging Limited:

Darren Lurie
Executive Chairman

About Optiscan

Optiscan is an Australian company that has developed and patented miniaturised confocal microscopes and is a global leader in the development and application of microscopic imaging and related technologies for medical and research markets.

Phone (61 3) 9538 3333

Website www.optiscan.com

PO Box 1066, Mt Waverley MDC VIC 3149 Australia



Optiscan Imaging Ltd (ASX:OIL)

Enabling “Real-time Virtual Biopsy” for
Human Cancer Screening and Surgical
Margin Detection

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Corporate Snapshot

Board

Darren Lurie – Executive Chairman

B.LLB (Hons) and B.COM (Hons)

Former Group CFO and Head of Corporate Development for EduCo International (an investee company of Baring Private Equity Asia). Darren is a former chair and non-executive director of ASX listed Farm Pride Foods Ltd (ASX:FRM).

Dr Philip Currie – Non Executive Director

MBBS (Hons), FRACP, MBA

Dr Currie is a leading cardiologist with more than 35 years experience in medical research, clinical cardiology and business. He completed his cardiology fellowship at the prestigious Mayo Clinic, staff cardiologist at both Mayo Clinic and Cleveland Clinic and was the Director of Echocardiography at Michigan Heart and Vascular Institute.

Graeme Mutton – Non Executive Director

CPA

Graeme is a long-standing shareholder in Optiscan and has a deep understanding of Optiscan's technology and applications. He is a former manager of an accounting practice and successful business owner and operator.

Total Securities on Issue

- 470,178,800 Ordinary Shares
- 2,600,000 Performance Rights
- 25,600,000 unlisted options

Market Capitalisation: ~\$19million @4.0c



From Laboratory Benchtop to Operating Theatre



Desktop Confocal Microscope

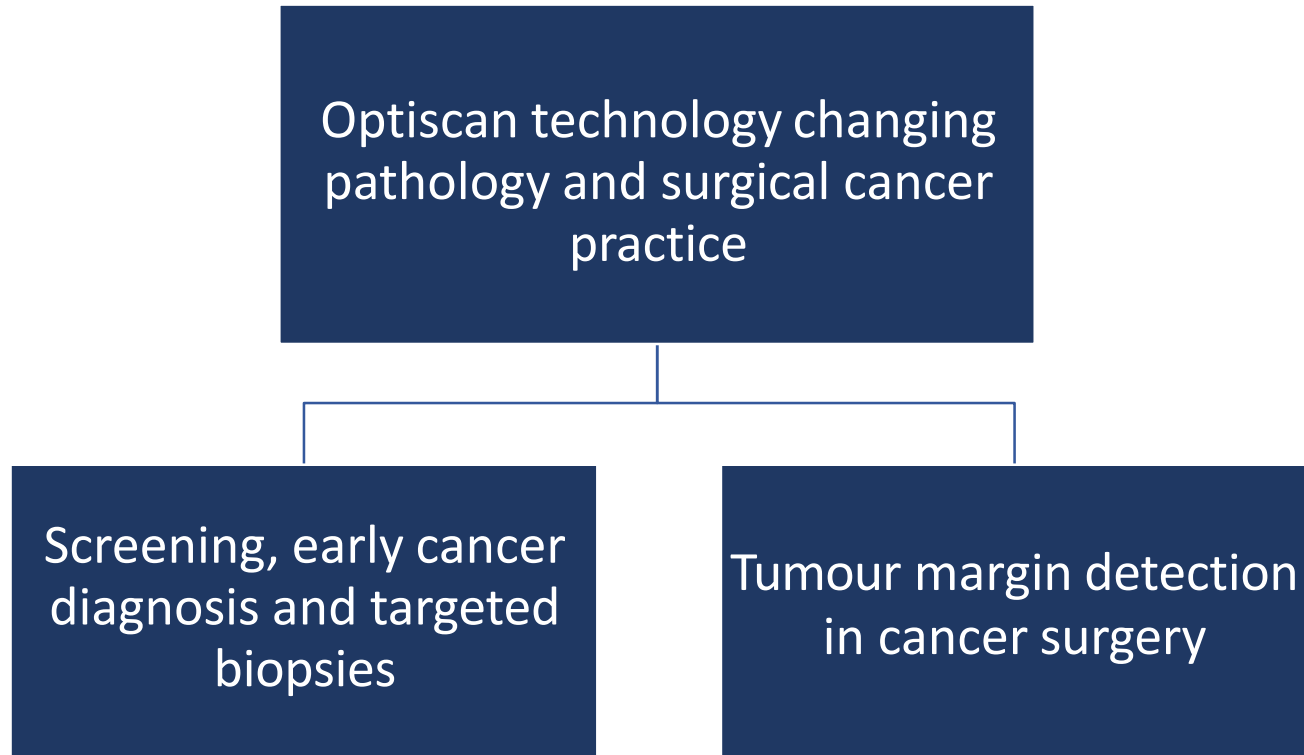


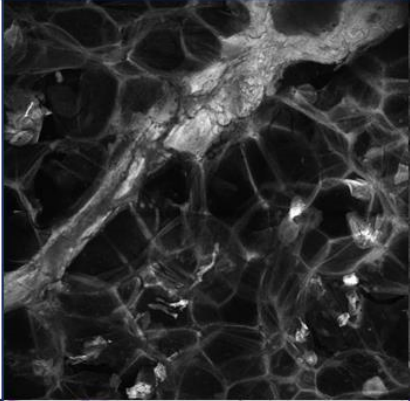
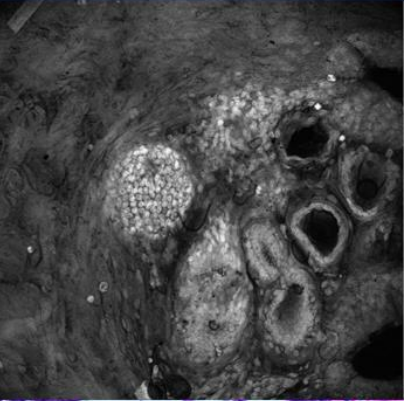
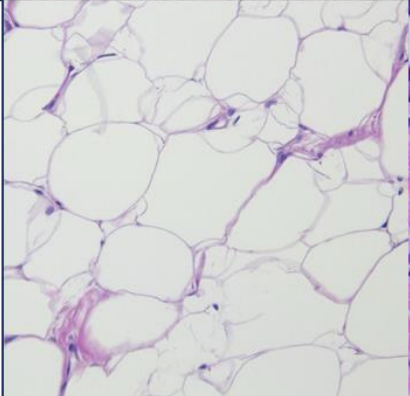
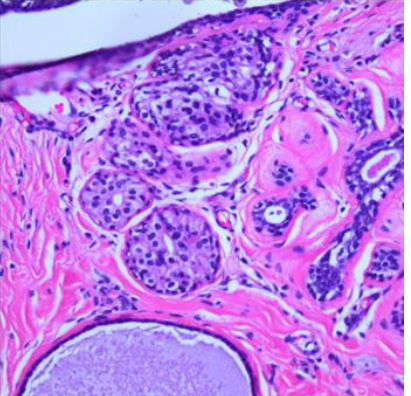
Optiscan's confocal device



Successfully miniaturised high resolution benchtop confocal microscope into hand-held probe with 4.0mm diameter providing unique microscopic imaging for clinicians. Underpinned by multi-patented technology.

Optiscan Technology Enables “Real Time Virtual Biopsy”



	Normal	Cancer
Virtual Biopsy		
Histopathology		

Images available instantaneously compared to waiting 3-4 days for the return of pathology results

Cancer Cases Worldwide – Addressable Market

18.1M total
cancer cases
p.a.

297,000
Brain and
CNS
cancer
cases p.a.

**Carl Zeiss
Meditec
Collaboration**

450,000
Oral and
Oropharyngeal
cancer
cases p.a.

Application with Optiscan's
Existing Probe Design

570,000
Cervix &
Uterus
cancer
cases p.a.

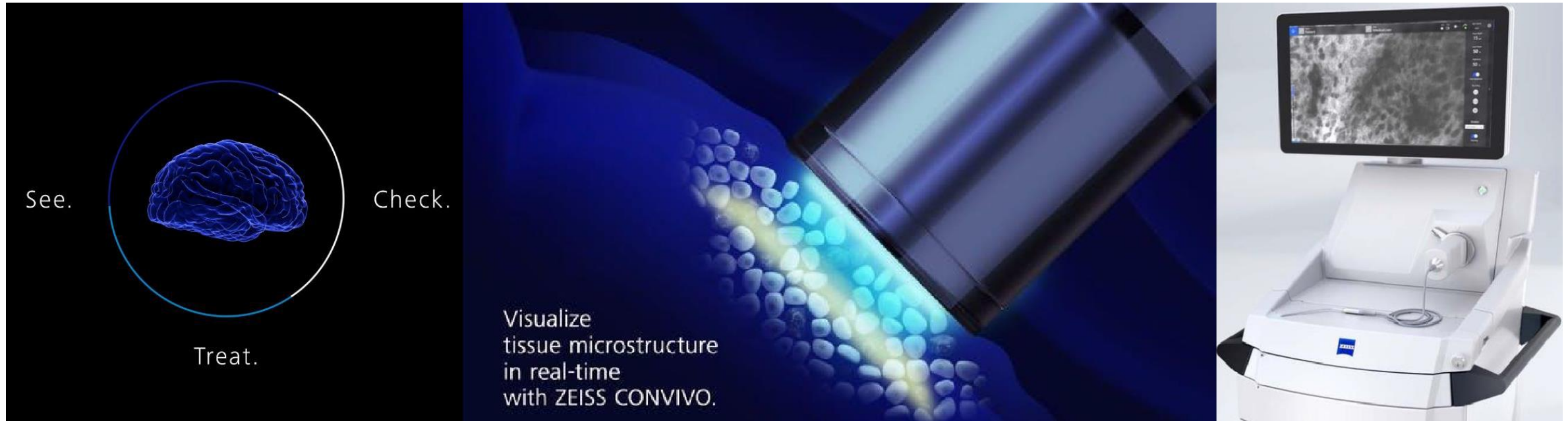
2.1M Breast
cancer cases
p.a.

3.4M Upper and
Lower GI cancer
cases p.a.

**Flexible Endoscope
Applications
(Seeking Partner)**

Sales opportunities for Optiscan devices exist for both cancer screening and in-surgery use.
In most applications, the number of screening procedures is many times the number of surgeries.

Brain Cancer – Collaboration with Carl Zeiss Meditec AG



- United States (FDA 510(k)) and European (CE Mark) approvals obtained
- CONVIVO “Digital Biopsy Tool” (Check) an integral part of the 3 step Zeiss Tumour Workflow in Neurosurgery
- Sales expected in first few months of FY20
- <https://www.zeiss.com/meditec/int/c/tumor-workflow-video.html>

Zeiss is an international leader in the field of optics and optoelectronics with a market capitalisation of ~€8.7billion

Oral Cancer – Seeking FDA Approval

	PROGRESS
Regulatory Approvals	<ul style="list-style-type: none">• Seeking FDA 510(k) Clearance for its system for use in Oral Cancer Screening and/or Surgery• Working with US based regulatory advisers
Product Development	<ul style="list-style-type: none">• Engagement with doctors assisted product development• Developed system features specifically focused on usability in oral cancer applications• Single hand operation with button controls on probe
Screening Application	<ul style="list-style-type: none">• Estimated 2,000 screening cases per annum at single hospital
Clinical Trials	<ul style="list-style-type: none">• On-going Oral Cancer clinical trial at Memorial Sloan Kettering Cancer Centre (MSKCC) in New York• Melbourne Dental School seeking ethics approval for commencement of clinical trial in collaboration with Royal Melbourne Hospital, Peter MacCallum Cancer Centre, MSKCC and Australian Centre for Oral Oncology Research & Education

Breast Cancer - The Most Common Cancer in Women

2.1

Million new cancer cases (globally)¹

15%

New Cancer cases in United States²

556

US Accredited Breast Cancer Centres³

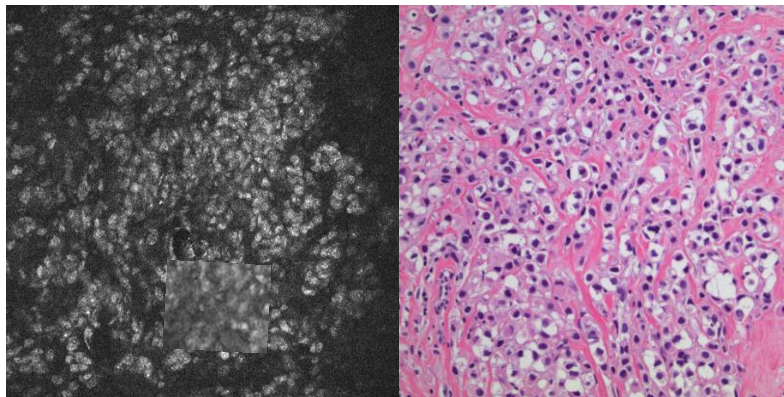
4 Stage Breast Cancer Trial at Hollywood Private Hospital (Western Australia's largest) with Principal Investigators

Dr Peter Willsher, Breast Surgeon of the Breast Cancer Research Centre –WA

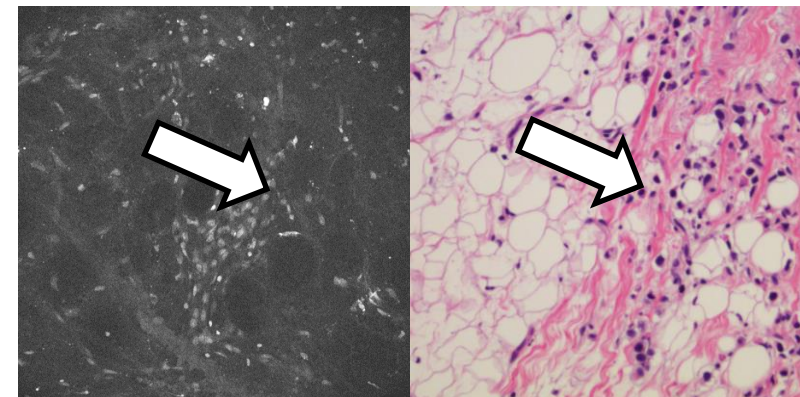
Dr Jespal Gill, Anatomical Pathologist and Head of Histopathology of Western Diagnostic Pathology

Dr Philip Currie – Cardiologist, Cardiac Imaging Specialist and Optiscan Director

Nearing completion of Stage 2 of the Trial with multiple specimens from mastectomy patients with PARPi-FL matching histopathology. Stage 3 to examine breast tissue specimens in the operating theatre



Matching CLE and H&E – Cancer cells throughout



Matching CLE and H&E – Cluster of cancer cells (Arrows)

Optiscan Technology in Pre-clinical Market

Progress in the Preclinical market

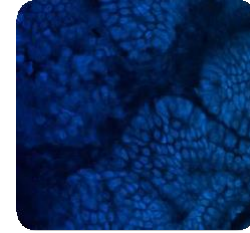
- Multiple trial demonstrations & funding being sought by research institutions for potential purchase in Australia, North America and China
- Working with CSIRO and Monash University for new applications in Cell Cultures and Anterior Cruciate Ligament (ACL) imaging respectively
- New multi-distributor model in China with appointment of exclusive distributor in Southern and Western China



Research Applications with FIVE2 (ViewnVivo)

- Cancer research
- Tissue regeneration
- Cell tracking
- Photodynamic therapy
- Infection & treatment
- Pharmacology
- Pathology
- Microvascular research
- Animal models
- Molecular Imaging

Investment Highlights



- Optiscan system enabling “Real-time Virtual Biopsy” for Human Cancer Screening and Surgical Margin Detection
- Collaboration with Carl Zeiss Meditech AG for Brain Cancer Surgical Device (US FDA and EU certifications already approved for use) and expected sales in first few months of FY20
- Working with US regulatory advisers regarding FDA 510(k) clearance for Optiscan System for Oral Cancer Screening and /or Surgery
- System being used in Oral Cancer trial at world-leading Memorial Sloan Kettering Cancer Centre and ethics approval being sought for commencement of clinical trial at Melbourne Dental School
- Approaching conclusion of Stage 2 of Breast Cancer trial at Hollywood Private Hospital (Western Australia’s largest private hospital)