

Imagion Biosystems – at a glance



New medical imaging technologies for the early detection of cancer

Imagion Biosystems ASX:IBX

Australian Medical Device Company developing bio-safe medical imaging technologies.

Market cap: ~\$135.3 million

Cash at 31 Mar 2021: \$13.007 million

R&D operations: San Diego Registered office: Melbourne

Recent Milestones:

May 2021

First patient enrolled in Phase I breast cancer

study Apr 2021

Brain cancer collaboration with Patrys

Mar 2021

CSIRO Grant to fund prostate cancer collaboration with Monash University

Nov 2020

\$6 million placement

Oct 2020

HREC approval received for Phase I Study

May 2020

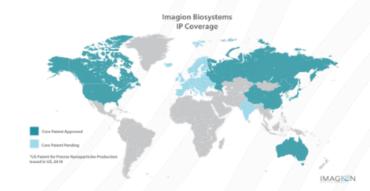
Research Collaboration with Siemens

July 2019

Received "Breakthrough Device" designation

by U.S. FDA

- Innovative medical imaging using magnetic nanoparticles to identify and stage cancer early
- Proprietary MagSense® technology is non-invasive and provides more specific
 & sensitive detection for cancer than current imaging technologies
- Multiple commercial opportunities:
 - Proprietary MagSense® imaging technology
 - Magnetic Resonance Imaging (MRI) contrast agent
 - Therapy and/or drug delivery
- MagSense® technology complements existing imaging and is more cost effective than many existing imaging technologies
- First-in-human studies initiated in Dec 2020 – targeting metastatic breast cancer



Patents are already issued, or are pending, in all the major markets, making the lions share of the global markets available for commercialization.

Patents are valid through 2029.

MagSense® - A new approach to medical imaging



Imagion's technology will transform cancer diagnosis

- Non-invasive a safe and non-surgical solution to detect cancer
- No radioactivity uses bio-safe magnetic nanoparticles to "tag" cancer cells
- **Platform technology** can be used for many cancers as well as other diseases, e.g. infection and cardiovascular
- **Proprietary** patents issued in most major global markets
 - **Breakthrough** technical feasibility and safety profile vetted, designated as a "Breakthrough Device" by FDA
 - **First indication** metastatic breast cancer, provides shortest path to commercialization
- **First-in-human** initiated first clinical study a catalyst for valuation and partnering



Clear unmet medical need

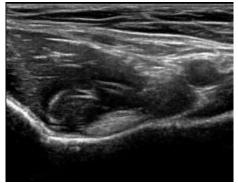


50 years since last new imaging technology was introduced



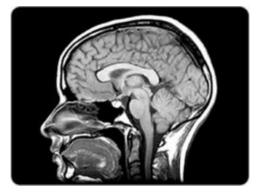
X-RAY (MAMMOGRAPHY) 1913

- Best used for finding structural anomalies (e.g. broken bones), and chest X-rays
- Mammography used for screening for breast cancer
- Risks include exposure to carcinogenic ionizing radiation



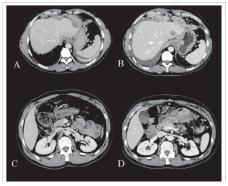
ULTRASOUND 1956

- Inexpensive and fast method to look at human organs and areas of inflammation
- Used to guide needle biopsies and detect ovarian cancer
- Poor sensitivity to detecting tumors – tumours must be billions of cells in size



MAGNETIC RESONANCE (MRI) 1971

- Best for imaging soft tissue including ligaments, tendons, the brain, and many internal organs
- Used for detecting brain cancers
- Scans can be long and claustrophobic



COMPUTED TOMOGRAPHY (CT) 1972

- Better for imaging the lungs than MRI
- Scan times shorter than MRI
- Used in staging solid tumors, guiding biopsy
- Exposes patients to carcinogenic ionizing radiation



POSITRON EMISSION TOMOGRAPHY (PET) 1973

- Can be expensive and poorer resolution than MRI or CT
- Better sensitivity for identification of metastatic lesions
- Subject to significant offtarget and high background signals
- Requires use of radioactive tracer exposing patients to radiation

"Despite technical advances in many areas of diagnostic radiology, the detection and imaging of human cancer remains poor."

Broad Commercial Applicability



May be used for many types of cancer and at multiple stages of diagnosis

MAGSENSE® NANOPARTICLES

- Are bio-functionalized to ensure high specificity for targeting different types of cancers, or other diseases.
- Can be used at multiple stages including primary diagnosis, staging, and monitoring the effectiveness of therapy.
- Are compatible with Imagion's proprietary MagSense® technology and with existing installed MRI systems as an MRI contrast agent.
- Uses known safe materials, including iron-oxide cores which are already cleared for multiple clinical uses including therapeutic applications.

MULTIPLE CLINICAL TARGETS Brain cancer Breast cancer Lung cancer Ovarian cancer Prostate cancer

2020-2021 Key Achievements



MagSense® enters the clinic

- HREC approval for Phase I study in Australia
- Collaboration with Siemens
 Healthineers adds exploration
 of MRI utility
- MagSense® imaging agent manufacturing for study completed
- Monash Health signed as first clinical site
- Study open for enrolment in Dec 2020
- First patient enrolled

Technology pipeline advancements

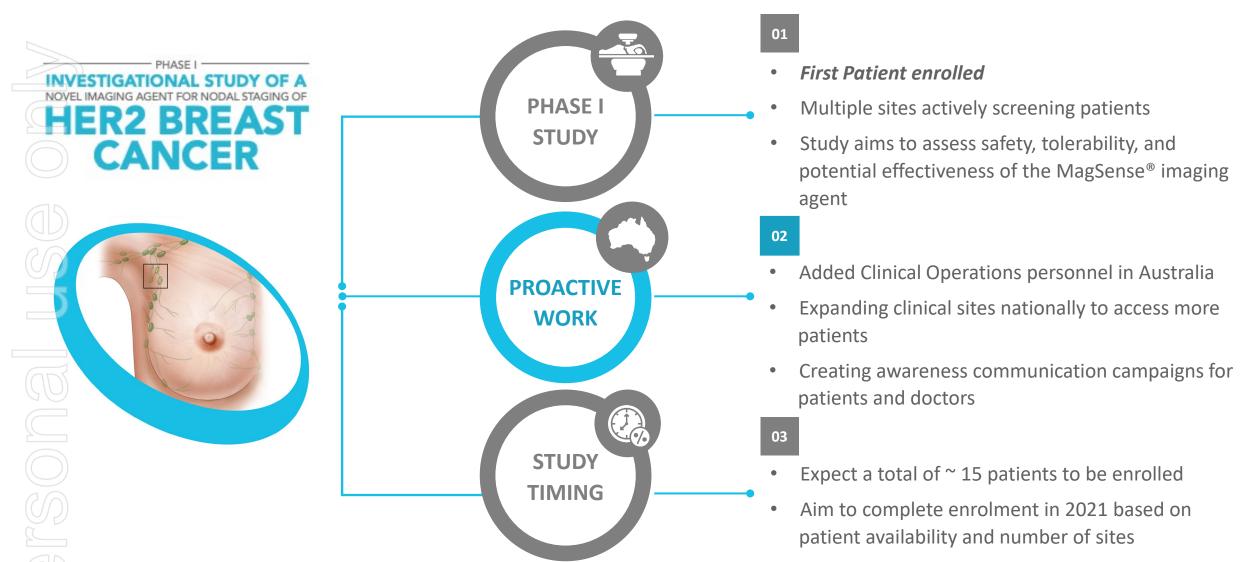
- University of Sydney research demonstrates utility of IBX nanoparticles with ultra-low field magnetic resonance imaging (ULF MRI)
- Boston University collaboration explores next generation magnetic sensors to enable doctor's office platform
- \$50k CSIRO grant kick-starts prostate cancer research with Monash University
- Collaboration with Patrys
 (ASX.PAB) targets brain tumour imaging

Corporate Milestones

- \$14.8 million funds raised
- \$2.2 million R&D Tax Refund
- Appointment of Dianne
 Angus to Board of Directors
- Appointment of Geoff Hollis as CFO and Company Secretary (based in Melbourne)

Study Update

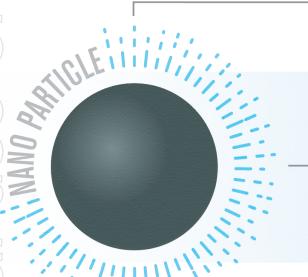
A first-in-human study of a targeted MagSense® imaging agent



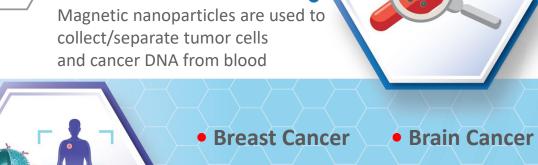
A platform for growth



Significant potential opportunities in biomedical applications of magnetic nanoparticles as results develop



CANCER SCREENING



- Prostate Cancer
 Ovarian Cancer

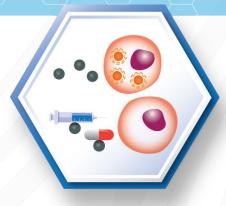
DIAGNOSTIC IMAGING

MagSense®nanoparticles are used for diagnosis and staging of cancers



TREATMENTS

Magnetic nanoparticles can be used for treatment by hyperthermia or used as an adjuvant to deliver cancer drugs or vaccines



Pre-Clinical Initiatives

Expanding MagSense® technology towards the diagnosis of other important cancers

Prostate Cancer

- IBX received \$50,000 CSIRO Federal

 Government Grant for prostate cancer project.
- Preclinical research project with Monash
 University's Biomedicine Discovery Institute with
 the aim of achieving an early proof of concept
 validation of MagSense® as a prostate cancer
 imaging agent

Brain Cancer

- Collaboration with Patrys Limited (ASX.PAB)
- Research program aims to pair the targeting capabilities of Patrys' deoxymabs with the imaging capabilities of MagSense® technology to provide a highly effective imaging agent for hard-to-diagnose cancers such as brain cancer.



"Prostate cancer imaging is an evolving field.
Imagion's new imaging technology would allow
precision mapping of the lymph nodes, identifying
smaller foci of cancer that current imaging
modalities are unable to identify."

PROFESSOR LISA HORVATH SCIENTIFIC ADVISORY BOARD MEMBER

"We are very excited to be further leveraging the cancer-targeting ability deoxymabs by partnering with Imagion and its innovative MagSense® imaging technology to potentially develop new ways to visualize and diagnose cancer."

DR JAMES CAMPBELL
CEO AND MANAGING DIRECTOR



A Path to Growth and Value

Strategic plan provides path to future products and shareholder value



STAGING BREAST CANCER

Reduce unnecessary surgery.
Addressable
Market:
\$700 million

TUMOR DETECTION

Breast, prostate, lung & ovarian.

Addressable Market:

\$7 billion

MRI CONTRAST

Safer alternative to current product, Gadolinium.

Addressable Market:

>\$3 billion

TREATMENT MONITORING

Monitor tumor size and adjust treatment accordingly.

Addressable Market:

>\$2 billion

DOCTORS OFFICE

Hand-held MagSense® instrument.

Addressable Market:

>\$14 billion

DETECTION & THERAPY

Provide both detection & delivery of therapy.

Addressable Market:

>\$140 billion

Capital Structure



Well funded throughout 2021 into 2022

- 2021 cash flows funded by cash reserves, exercise of listed options and R&D tax incentive
- Increasing cash inflows from exercise of listed options with \$1.3 million received in Q1 2021
- Widely held register with strong relative liquidity

Listed and unlisted options (26 May 2021) Share price (26 May 2021) 12-month range \$0.025 - \$0.225 Average daily volume (12 months to 26 May 2021) Market capitalization (26 May 2021) Cash (31 March 2021) Listed options exercised (Jan-Mar 2021) Shareholder data (26 May 2021) Top 20 shareholders own 20.7%	Ordinary shares on issue	1,041 million
(26 May 2021) 12-month range \$0.025 - \$0.225 Average daily volume (12 months to 26 May 2021) Market capitalization (26 May 2021) Cash (31 March 2021) Listed options exercised (Jan-Mar 2021) Shareholder data \$1.3 million Top 20 shareholders own 20.7%	•	353 million
Average daily volume (12 months to 26 May 2021) Market capitalization (26 May 2021) Cash (31 March 2021) Listed options exercised (Jan-Mar 2021) Shareholder data 11.1 million shares \$135.3 million \$13.0 million \$13.0 million	-	\$0.13
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(Jan-Mar 2021) Shareholder data Top 20 shareholders own 20.7%		\$13.0 million
	•	\$1.3 million
		Top 20 shareholders own 20.7%

Backed by strong industry and clinical experience



BOARD OF DIRECTORS



ROBERT PROULXChairman & CEO



MICHAEL HARSH Non-Exec Director



JOVANKA NAUMOSKA Non-Exec Director



DAVID LUDVIGSON Non-Exec Director



DIANNE ANGUSNon-Exec Director



MARK VAN ASTEN Non-Exec Director

SCIENTIFIC ADVISORS



DR JOHN HAZLE MD Anderson Cancer Center



PROF LISA HORVARTH Chris O'Brien Lifehouse



DR PAUL GRINT Cardea Bio



DR ROBERT IVKOV Johns Hopkins Univ



PROF ANDREW SCOTT AM ONJRC Austin Hospital

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Contact:

www.imagionbiosystems.com

info@imagionbio.com

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