ASX:EMV

BELL POTTER HEALTHCARE CONFERENCE 2023

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Portable brain imaging, anywhere, anytime

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NOVEMBER 2023

www.emvision.com.au

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VISION

OVERVIEW

EMVision is an innovative medical device company developing world first electromagnetic portable brain scanner products to address significant unmet clinical needs.

Originally spun out of the University of Queensland.

- Founded in 2017 Experienced team after 10 years of R&D at UQ
- Best-in-breed partnerships and clinical collaborations

First indication –

stroke care

Significant nondilutive Federal and

State grant funding

- "Zero to one" technology
- Multi-billion-dollar market opportunity

15m strokes and 27m

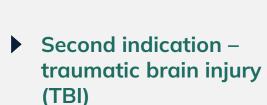
worldwide each year

medically treated TBI incidents









THE TEAM



SIGNIFICANT MEDICAL DEVICE DEVELOPMENT AND GLOBAL COMMERCIALISATION EXPERTISE ACROSS THE GROUP

Executive leadership team



Scott Kirkland **CEO** and Managing Director Co-founder

Sales and marketing executive, former Head of Client Sales at US-venture backed global AI advertising company Quantcast



Forough Khandan Chief Technology Officer

Over 15 years medical device development expertise. Former Head of Program Management Nanosonics (ASX:NAN), a \$1.3bn medical device success story.



Professor Stuart Crozier **Chief Scientific Officer Co-inventor**

Pioneer in medical imaging innovation. Prof Crozier's advancements in MRI technology now central to 65% of all MRI machines.



Robert Tiller Head of Design

Over 25 years in medical device product design and commercialization, previously CEO of Tiller Design



Dr. Christian Wight Head of Regulatory Affairs

Previously Regulatory Manager at Corin. Multiple successful FDA, CE and TGA registrations



Emma Waldon CFO, Company Secretary

20+ years corporate advisory, capital market and cooperate governance experience in Australia and UK

Board of Directors



John Keep Independent Non-Executive Chairman

As former CEO of Queensland Diagnostic Imaging, John grew the business to become one of the state's leading private imaging group and led the successful trade sale of the group



Dr Ron Weinberger Strategic advisor, Non-Executive Director

Former Executive Director and CEO of Nanosonics (ASX:NAN). Former CEO of EMVision. Over 20years' experience developing and commercializing medical devices.

Neuroradiologist, former CEO of Sonic Healthcare

Imaging (ASX:SHL), \$14bn market cap. Currently an

Associate Professor of Radiology at the University

numerous government and radiology group bodies

of Oueensland Medical School. Has served on

Dr Philip Dubois

Independent Non-Executive Director



Tony Keane Independent Non-Executive Director

Non-executive Chairman of National Storage Holdings Ltd (ASX:NSR), \$3bn market cap. Previously held numerous roles with a major trading bank principally in business, corporate and institutional banking.



Over 20 years' experience in commercialisation, corporate finance. Chairman of Argenica Therapeutics (ASX:AGN).



OUR VISION IS TO REDUCE THE GLOBAL BURDEN OF STROKE AND OTHER TIME SENSITIVE MEDICAL EMERGENCIES

FIRST INDICATION - STROKE

- 1 in 4 adults will have a stroke in their lifetime
- 2 out of 3 strokes result in permanent disability
- 34% of total global healthcare expenditure is spent on stroke
- The average healthcare cost of stroke per person in the United States is USD \$140,048

Every 10 minutes can SAVE up to 20 MILLION brain cells



SECOND INDICATION - TRAUMATIC BRAIN INJURY (TBI)

- An estimated 50-60 million people, worldwide, will suffer a TBI this year.
- Those TBIs each year are estimated to cost the world economy upwards of \$US400 billion
- One of the most common severe types of TBI is acute subdural hematoma, caused by rupture of blood vessels
- For patients with suspected traumatic brain injuries, quick evaluation is critical
- Most patients with suspected traumatic brain injury are examined using a neurological scale (GCS) which is imprecise and can lead to biases in care (Matney C 2022).



EMVISION'S PORTFOLIO OF WORLD FIRST POINT-OF-CARE BRAIN SCANNERS IS THE SOLUTION



- Large
- Expensive
- For most part stationary
- Ionizing radiation (CT) and ferromagnetism (MRI)
- Requires special infrastructure
- Requires specialist operators





1st Gen (Bedside)

EMVision, Neuroimaging anywhere.

- ✓ Portable, compact
- ✓ Cost effective
- ✓ Non-invasive
- ✓ Faster diagnosis, faster treatment
- ✓ Better monitoring
- ✓ Less disability
- ✓ Improved quality of life
- ✓ Significant healthcare & insurer savings

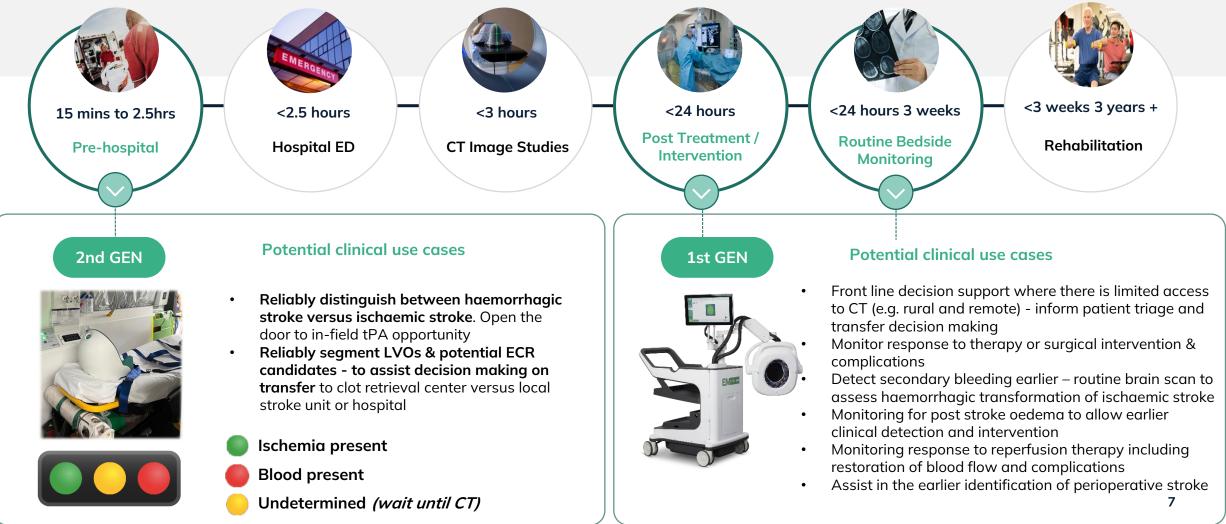


2nd Gen (First responder)

OVERVIEW OF 1ST GEN AND 2ND GEN CLINICAL VALUE

UNMET NEED FOR PRE-HOSPITAL AND BEDSIDE IMAGING ACROSS THE ENTIRE PATIENT JOURNEY

A typical stroke patient journey & timeline in an urban setting





POINT-OF-CARE BRAIN IMAGING, ANYWHERE, ANYTIME





"This is an exciting development in stroke and neurological care. We have found the EMVision scanner to be a very user-friendly portable imaging modality. The EMVision scanner has potential for wide application in both the prehospital and acute hospital settings."

Dr Dennis Cordato Stroke neurologist, Principal Investigator 'EMView' trial

Professor Geoffrey Donnan AO

Stroke neurologist

"It cannot be underestimated how important this cutting-edge technology could become for future stroke management."

Co-chair ASA, Past-president of World Stroke Organization





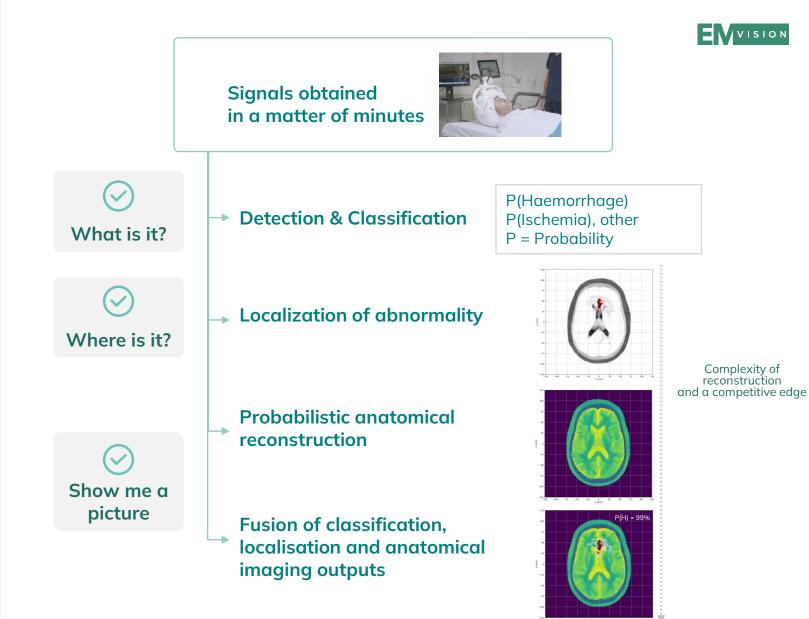
"The concept of bringing imaging to the patient will dramatically reduce times to administer life saving interventions such as thrombolysis and thrombectomy." **Professor Stephen Davis AO** Stroke neurologist Co-chair ASA, Past-president of World Stroke Organization

"Equitable healthcare for Australians in remote areas needs to overcome the tyranny of distance. Portable brain imaging is a crucial next step in bringing critical care to patients sooner." Dr Mardi Steere

Executive General Manager Medical and Retrieval Services, **Royal Flying Doctor Service**

HOW EMVISION'S IMAGING COMES TOGETHER

EMVision is developing a "zero to one" medical imaging technology with a series of algorithms that are combined to help answer important clinical questions in acute stroke care:



Probabilistic anatomical reconstruction is intended as a fiducial and orientation tool. Algorithms are subject to further development, verification and validation.

INNOVATING AT PACE



- IP portfolio spans software, hardware and multiple indications
- EMVision's unique technology has been published in:



Successful proof-of-principle study completed with 50 confirmed stroke patients at Brisbane's Princess Alexandra hospital in 2020-21 with an earlier clinical prototype. Algorithms refined in this study and observed to accurately classify stroke type (98%) and localise quadrant of stroke (78%). Larger multi-centre clinical trials with commercial unit are underway.

EMVision intends to provide actionable insights to clinicians for time sensitive medical emergencies, such as stroke and traumatic brain injury, in environments where access to CT/MRI is limited or not practical, by the bedside and in the pre-hospital environment.



HEALTHCARE WINNER

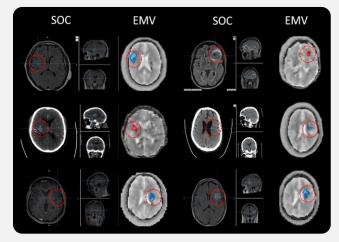
EMVision has been named the top innovator in the health category in the 2023 AFR BOSS Most Innovative Companies List

Please refer to the Company's ASX announcement titled "EMVision Reports Very Encouraging Pilot Clinical Trial Data" released on 28th October 2020 and "Clinical Trial Data Drives Further Confidence for Expanded Studies" released 30th May 2021 for further details on the study. The algorithms may be subject to further refinement and investors should note there is no guarantee the algorithms will replicate the same level of accuracy on larger data sets without further refinement, or at all.

Please refer to the Company's ASX announcement titled "Latest imaging and clinical trial insights" released on 22nd August 2023 for further details on the AI powered probabilistic imaging technique (right).

IMAGING EXAMPLES

PROOF-OF-PRINCIPLE STUDY



Patient examples from proof of principle pilot trial (left). Pathologies highlighted blue were classified as ischemic stroke and those highlighted red were classified as haemorrhagic. SOC = Standard of Care, EMV = EMVision Clinical Prototype 1 (CP1)

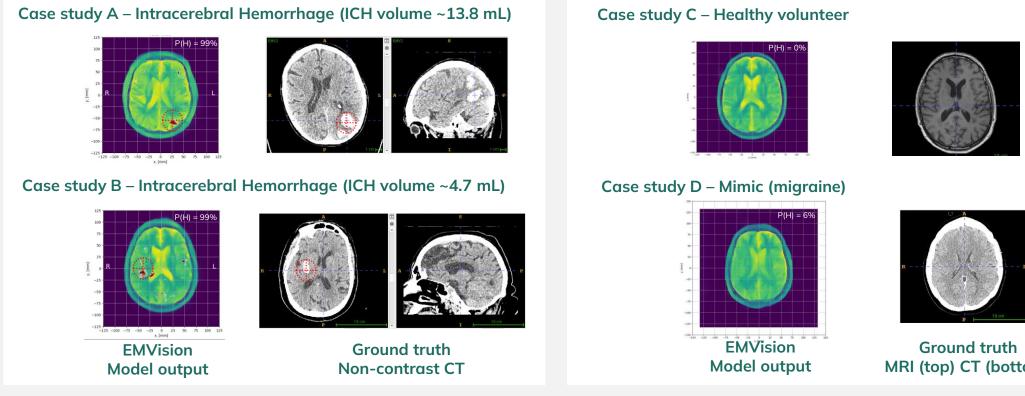
AI POWERED PROBABILISTIC IMAGING EXAMPLES (NON-STROKE BRAINS) PARTICIPANT MRI ENV BASE MODEL ENV ADVANCED MODEL EXAMPLE B Image: Comparison of the structure of the stru

The ground truth 'MRI' slice is an approximate reference point to the EMV scan acquisition (Stage 1 study insights, Gen 1 commercial unit), and not the identical plane. It is intended for this background anatomical reconstruction to be combined with a separate series of algorithms to aid in the classification and localisation of stroke type.

Algorithms are subject to further development, verification and validation

LATEST PATIENT IMAGING CASE STUDIES

In these examples from EMVision's multi-site clinical trials (pre-validation phase), the EMVision algorithms are able to detect, correctly localize by quadrant ('heatmap' of greatest intensity) and classify intracerebral hemorrhage ('blood or not') and other ('no blood') cases.



MRI (top) CT (bottom)

These 'development in progress' algorithm case studies of patients with intracerebral hemorrhage and other participants are subject to further development, verification and validation. The ground truth 'CT' and 'MRI' slices are an approximate reference point to the EMV scan acquisition, and not the identical plane.

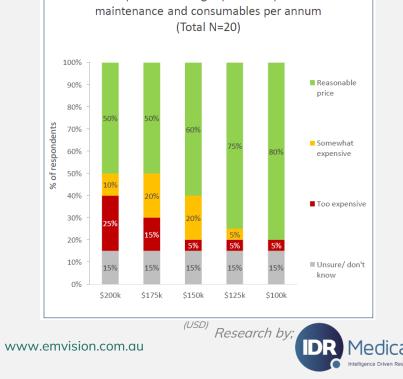
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POSITIVE MARKET FEEDBACK

US primary market research supports proposed purchasing models

- 20 US based stroke specialists, with involvement in purchasing processes, surveyed by IDR Medical.
- 50% of the sample considered the upper proposed Gen 1 purchase prices reasonable. Only 1 respondent did not accept any of the prices presented.

Response to outright purchase price +



ENCOURAGING HEALTH ECONOMIC ASSESSMENT

Estimated Gen 1 potential financial benefits to a public hospital in Australia¹

Reduction in Transportation Costs	\$120,000
More efficient CT/MRI Utilization	\$150,000
Improvement in Endovascular Clot Retrieval Resource Utilization	\$90,000
Reduction in Length of Stay	\$78,000
Estimated Annual Total Financial Benefit of one device (excluding annual cost of imaging system)	\$438,000



VISION

Research & Modelling conducted by;

The savings estimated is from an Australian public hospital budget impact perspective and does not include post discharge patient outcomes related savings. Investors are cautioned that this study summary dated August 2021 is based on a number of assumptions, which are subject to change and may cause actual results to differ materially from those forecast. Investors should not place undue reliance on these results. The study is not indicative of the proposed unit pricing 12 of EMVision's devices.

US REIMBURSEMENT STRATEGY

Approximately 75% of stroke cases in the United States are covered by Centers for Medicare and Medicaid Services (CMS) via Medicare.

Under the Inpatient Prospective Payment System (IPPS), Medicare pays for a patient's inpatient hospital stay under a bundled payment (MS-DRG), which covers costs of acute and post-acute care service performed. Examples of costs include radiology, room, supplies, nursing and operating room time. It does not cover physician fees (reimbursed separately), patient out-of-pocket and private health. Although this bundled payment may cover most drugs, devices and supplies, certain qualifying products are eligible for additional payment via the NTAP designation.

New Technology Add-on Payment (NTAP)

- Announced September 2020
- Intended to support the adoption of cutting-edge technologies that have demonstrated substantial clinical improvement by helping to cover their cost for Medicare patients.

Requirements

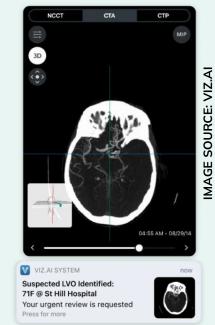
- New technology
- Cost criterion
- Substantial clinical improvement

For outpatient (including pre-hospital), a similar program exists known as New Technology Ambulatory Payment Classification (APC). Engagement with Early Payor Feedback Program, including CMS and Local Medicare Administrative Contractors (MACs), is planned for H1 CY2024.

CMS.GOV 'Overview of the New Technology Add-on Payment Program'. The NTAP applications require patient benefit clinical data and the process takes place on an annual basis, where CMS reviews applications and decides whether or not to award the NTAP designation as part of its annual IPPS rulemaking cycle.

MS-DRG Examples	Description	Medicare Payment USD	Total Charges USD
061	Ischaemic stroke w/ thrombolysis + major complications	\$20k	\$118k
066	Haemorrhagic stroke w/o complications	\$5k	\$43k
023	Thrombectomy w/ major complications	\$39k	\$179k

NTAP Stroke Care Example



Viz.Al software is intended to help reduce delays in acute stroke treatment and endovascular therapy.

Up to \$1,040 reimbursement per eligible patient beyond MS-DRG reimbursement



US MARKET RESPONDENT FEEDBACK ON 1ST GEN DEVICE

Commentary from stroke care respondents on use cases in a tertiary hospital setting, remote areas and anticipated scan volumes

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Will be used much more often

We do way more than 5 scans a day. On the ICU we are monitoring patients every day and sending them for scans, but with this you can do it so much more often, I can imagine wheeling it out on every round. Vascular Neurologist, CSC

Useful in radiology after intervention

"It could be used in the radiology suite straight after the intervention to see if there are any changes and to see if you need to intervene more. On the ward or in the ICU you would use it to see if anything is wrong and then send the patient for a scan to confirm the findings." **Neuro-intensivist, CSC**

Could have significant impact in the pre-hospital setting

"So pre-stroke treatment, I think it could be of help in the pre-hospital assessment to differentiate between a bleed and an ischemic stroke, to help facilitate transfer to the appropriate place with neurosurgery capabilities; and for transfer to a place that would help in administration of thrombolytics." Vascular Neurologist, CSC

POC for remote areas with accessibility limitations

It's a very interesting thing. It doesn't use radiation, so it can be used anywhere the patient is. It's interesting, I can see how such a device can find use in clinical care. I think it can find a role, but especially in a certain point of care where a CAT scan is not available and that's where I can see it can be very useful. Or in remote areas they have a lot of people that don't have access to a hospital and to a CAT scan. Where you need to make a diagnosis on the spot, this seems to be simple enough to do that. In terms of a big hospital, I can see how you can make use of this in certain situations, it seems easy to bring to the ICU to make sure of things very quickly. **Neuro Interventional Radiologist, CSC**

Would do more than 5 scans a day

If you had a 36-bed neuro-surgery unit and you had 4 patients having an event, you'd be using this more than 5 times a day. **Stroke Nurse, TCSC**

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Gen 1 value proposition is subject to successful development, clinical testing and validation.



MORE LIVES COULD BE SAVED WITH OUR SCALABLE AND LIGHTWEIGHT 2nd GEN BRAIN IMAGING SOLUTION



A Mobile Stroke Unit (MSU) of today



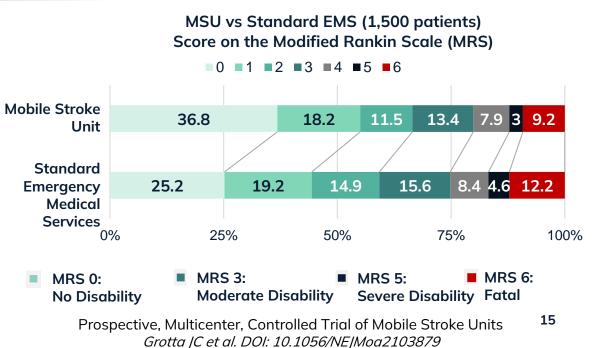
Inside a multi-million dollar Mobile Stroke Unit (MSU)



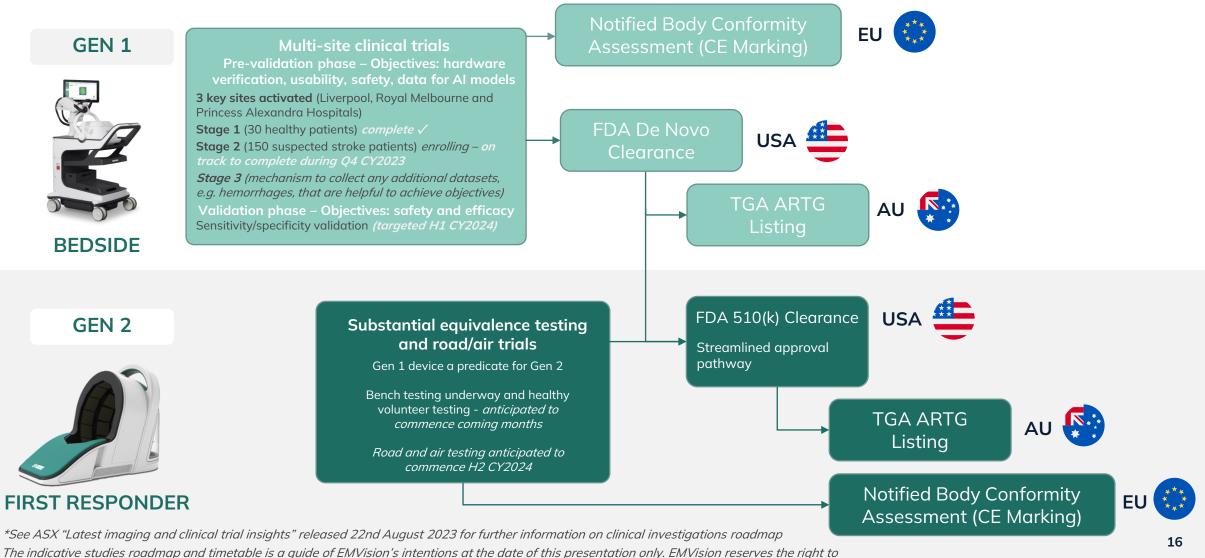
Equipping every standard Road and Air Ambulance with affordable neuroimaging capabilities is our goal (2nd Gen pictured)

- Mobile Stroke Units (MSU) essentially bring the stroke unit to the patient, providing faster diagnosis and treatment, improving disability outcomes
- However, the model is resource intensive (including radiographer) and requires an expensive specialised vehicle and thus is not generalisable for scale-up
- EMV 2nd Gen is designed as a scalable solution that is portable, ultra lightweight and telemedicine enabled, deployable by trained paramedics in any road or air ambulance
- EMV is partnering with the Australian Stroke Alliance (ASA) to develop and validate the Gen 2 to transform pre-hospital stroke care

Gen 2 value proposition is subject to successful development, clinical testing and validation.



PATHWAY TO MARKET ENTRY (GEN 1 DURING FY25)



VIVISION

vary this plan and timetable at its discretion, and further notes the above timings are subject to change due to circumstances outside of its control.

ATTRACTIVE REVENUE MODELS

Traditional capex or innovative opex selling model offerings to provide buyer flexibility. Direct or distributor sales channels.

CAPITAL EQUIPMENT & CONSUMABLES MODEL (GEN 1)

- Capital Equipment Target: ~US\$150,000
- Consumables (disposable cap, coupling media) – Target: ~US\$25 / per scan
- Preventative maintenance & service contracts – Target:
 ~10% of capital equipment p.a.
- Software upgrades (including additional indications)

MONTHLY SUBSCRIPTION MODEL (GEN 1)

- Target ~US\$8,000 / month (subject to term)
- Delivery of the unit and training
- Consumables (subject to quota)
- Software upgrades
- Potential integration into PACS and EMR
- Access to cloud storage and viewing
- Routine maintenance included

Significant consumable opportunity for both Gen 1 and Gen 2 point-of-care brain scanners.





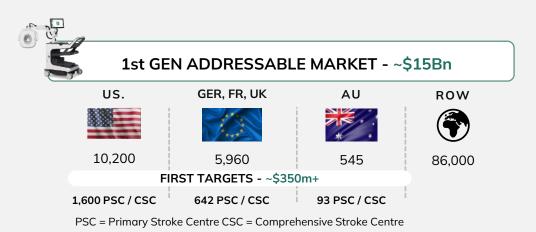
Coupling media Disposable cap

Gen 2 consumables (~\$US50 / per scan)

Gen 1 consumables (~US\$25 / per scan)

EVISION

TOTAL ADDRESSABLE MARKET





EMV cautions investors that there are regulatory barriers and unique access challenges to each market and can be subject to varying rates of penetration. Estimates based on publicly available data. There are further regulatory hurdles to sell into ROW: China, Japan, Brazil, Mexico, South Korea, Spain, Italy, India and Canada.



PARTNERS & COLLABORATORS

TRACK RECORD OF SECURING AND ONGOING ACCESS TO NON-DILUTIVE FUNDING PROVIDES GOOD FLEXIBILITY GRANT SCHEMES ARE COMPETITIVE AND SUBJECT TO DUE DILIGENCE BEFORE AWARD

Clinical Research Partnership

Access to neurology, radiology and critical care expertise, access to simulation rooms and hospital infrastructure, advancement of bedside processes as well as input into technology development.

Product Collaboration

Strategic OEM Agreement with Keysight Technologies (NYSE:KEYS) with exclusivity in the field of neuroimaging for the supply of the "fast sweep" feature in the VNA (core to the sensors inside EMV's portable brain scanner).

Clinical Development & Validation, Non-dilutive funding

ASA providing clinical expertise and \$8M in non-dilutive funding to support clinical validation and deployment to transform pre-hospital stroke care

Inception Member

NVIDIA Inception nurtures dedicated and exceptional startups who are revolutionizing industries with advances in AI and data science.

Manufacturing Grant

\$5m non-dilutive federal manufacturing grant to establish first commercial production run

Commonwealth CRC-P Grant Program Collaborators







Princess Alexandra Hospital

BRISBANE • AUSTRALIA

CRC-P grant supported an industry-led collaboration, including cash contribution from GE Healthcare, to develop and successfully test EMVision's earlier proof of principle prototype device

NSW Medical Devices Fund backing



\$2.5m non-dilutive grant funding awarded in November 2022 to support EMVision's multi-site clinical trials

Modern Manufacturing Initiative

Metro South Health

VISION

💿 NVIDIA.

INCEPTION PROGRAM

Australian :: Stroke Alliance

SET UP FOR SUCCESS

- We have assembled a team of medtech experts that have successfully done this before and created significant shareholder value
- ✓ We have compelling support from the leading minds in stroke care
- ✓ Multi-billion-dollar market opportunity in stroke care alone
- ✓ Globally there is an increasing demand for point-of-care imaging solutions
- Our technology has additional applications for unmet clinical needs of high value, including traumatic brain injury
- Our multiple non-dilutive funding sources provide strong endorsement and offer flexibility to accelerate the commercialization of our product portfolio



KEY UPCOMING CATALYSTS



Generate pre-validation and validation clinical trial data, achieving endpoints and recruitment objectives. Anticipated stage 2 reporting CY Q1 2024. FDA engagement.



Establish commercial partnership/s & strategic relationships



Gen 2 Advanced Prototype bench testing underway & healthy volunteer studies coming months, Gen 2 proof of concept unit build and road & air trials (during CY2024)



Establishment of commercial manufacturing



Regulatory submissions and approvals



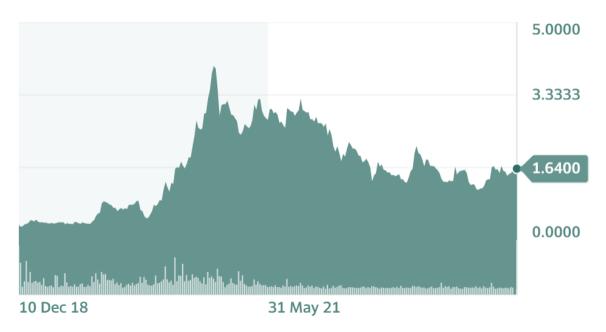
CAPITAL STRUCTURE

ASX TICKER: EMV

Headquarters: 4.01, 65 Epping Road, Macquarie Park Sydney, Australia

Share Price (14 th November 2023)	\$1.64 AUD
Shares on issue	77,957,112
Total Options on issue	5,900,000
Performance Rights	6,044,305
Market Capitalization	\$127.8m AUD
Enterprise Value	\$120m AUD
Cash Balance (30 September)	\$7.8m AUD
Remaining non-dilutive grant funding (as of 30 September)	\$3.8m AUD
Historical R&D Rebate for previous FY	\$2.5m AUD

- Secured ~\$20m in non-dilutive grant funding since inception
- \$3.8m ongoing non-dilutive staged grant funding available
- Modest historical cash burn
- Multi-centre clinical trials capital efficient at less than \$4m
- Founders, Management and Directors closely aligned to shareholders, holding approximately 20% of shares on issue



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*See ASX "Appendix 4C – Cash Flow Report" released 28th July 2023 for further information on funding



THANK YOU

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