# AEROMETREX LIMITED (ASX: AMX) 1H23 RESULTS I 28 FEBRUARY 2023

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# aerometrex

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# Aerometrex is a trusted & leading aerial mapping company

We specialise in providing an aerial imagery subscription service (MetroMap), LiDAR & 3D visualisation that supports wide-ranging industries & customer requirements



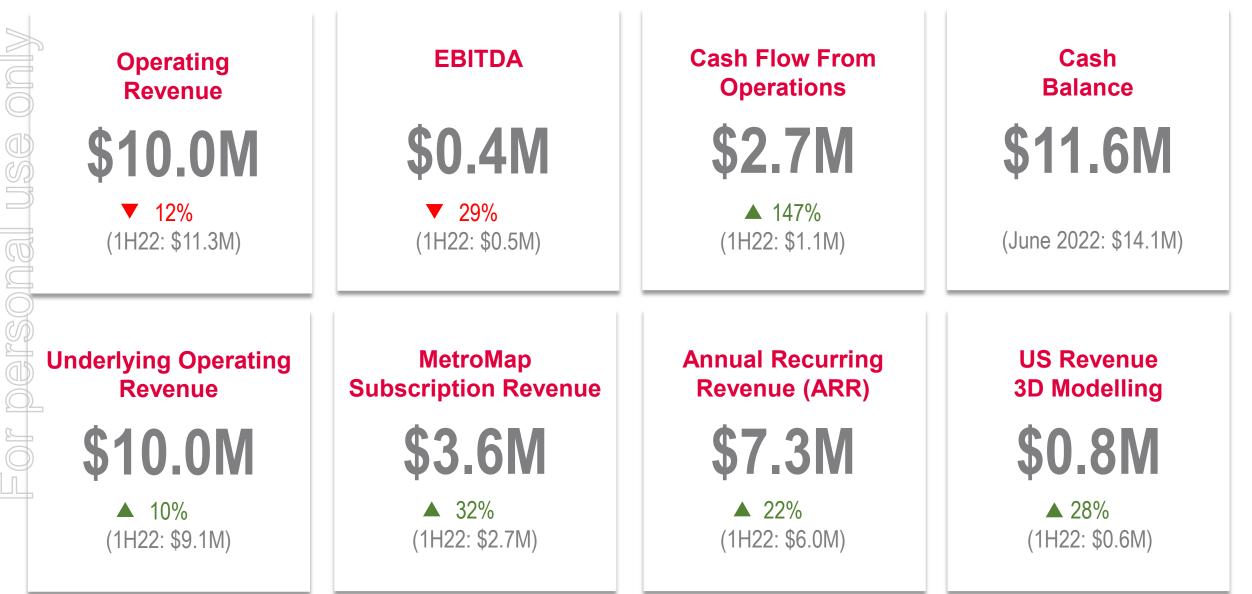
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# **KEY ACHIEVEMENTS & OUTCOMES IN 1H23**



	de in all key business initiatives, offset by the cessation of project photomapping revenue contribution impacted comparative 1H23 financial outcomes & some operational aviation related challenges
Key Initiatives	Highlights & Outcomes
Revenue	<ul> <li>Statutory revenue of \$10.0m (1H22: \$11.3m) with the reduction largely driven by the cessation of project aerial photomapping (1H22: \$2.25m) as announced in June 2021</li> <li>Underlying statutory revenue increased from \$9.1m to \$10.0m when adjusted for historical project photomapping work in 1H22</li> <li>EBITDA of \$0.5m (1H22: \$0.4m)</li> </ul>
Expansion of MetroMap Customer Base & ARR	<ul> <li>Subscription revenue up 32% to \$3.6m</li> <li>Annual Recurring Revenue (ARR) up 22% to \$7.3m</li> </ul>
Growth of US 3D	<ul> <li>Single largest sale to date from AMX USA's off-the-shelf 3D model catalogue to Google Inc.</li> <li>Awarded largest street level capture for the Victorian Government for their transformative Melbourne Greenline Project *</li> </ul>
Growth across LiDAR	<ul> <li>Awarded contract by Rio Tinto valued at \$0.9m</li> <li>Significant work on books of ~ \$6m (June 2022: \$3.7m)</li> </ul>
Focus on People & Safety	<ul> <li>New organisational structure implemented enhancing decision making, accountability &amp; company-wide efficiencies</li> <li>Safety focus enhanced with appointments of a new WHS Manager &amp; General Manager Aviation</li> <li>Annual General Meeting resolutions approved for reward &amp; recognition initiatives to attract &amp; retain quality employees</li> </ul>
Key Subsequent Events	<ul> <li>Awarded largest LiDAR contract with Australian Federal Government Agency valued at \$1.9m – January 2023</li> <li>Arrival of new Urban Mapper 2 sensor for deployment into the MetroMap business – February 2023</li> </ul>

# 1H23 SNAPSHOT | SOLID METROMAP GROWTH WITH MIXED OPERATIONAL IMPACTS

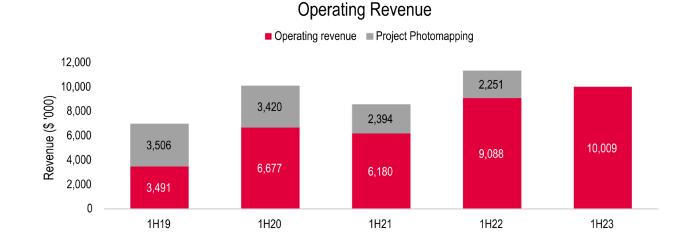


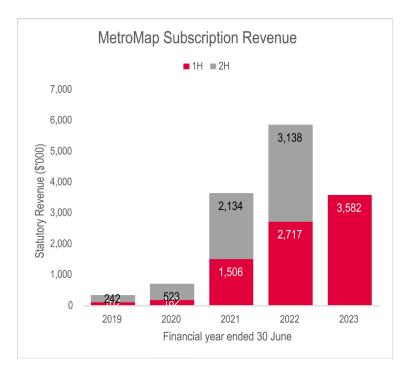
# **OPERATING REVENUE & METROMAP REVENUE**

# **1H23 revenue outcomes need to account for the cessation of project photomapping work**

1H23 operating revenue is the first time there has been zero contribution from contract photomapping work, following the decision in June 2021 to cease these activities & redeploy aviation assets to MetroMap

Whilst 1H23 MetroMap subscription revenue growth increased by 32% to \$3.6m, it did not outpace the loss of revenue attributed to 1H22 project photomapping work (transition from project photomapping work to subscription DaaS model)





# MAJOR FOCUS AREAS & 1H23 UPDATES

Aerométrex 3D Model Madison Square Garden, New Yorl

# **DEVELOPING 'PATHWAYS TO PROFITABILITY'**





#### **Global 3D**

Leverage Aerometrex's position as the world leader in high-resolution 3D modelling

## **MetroMap**

Position MetroMap to redefine industry standards & generate profitable outcomes

## LiDAR

Build Australia's leading LiDAR business

# METROMAP | PRODUCT DEVELOPMENT EXPANDING OFFERING

# aerometrex

# MetroMap

Position MetroMap to redefine industry standards & generate profitable outcomes

- Grow Annual Recurring Revenue (ARR)
- Enhance customer platform & offerings
- Optimise cost structures & asset utilisation
- Optimise long-term aviation & sensor strategies

#### 1H23: Key Updates

- Operational challenges encountered around aviation & sensor related factors impacted on-task flying hours
- Progressed activities associated with platform developments, product offerings & sales strategies
- First revenue obtained from new property analytics product stream
- Progressed sensor strategy activities transitioning to greater system standardisation



- Continued focus on sales & customer acquisition strategy to build revenue
- Ongoing product & platform development to enhance customer experience
- Increase aviation & sensor utilisation to improve capture frequency:
  - Including the arrival of two new IGI sensors to improve general
    - efficiencies & capture outcomes

## METROMAP | CONTINUED YoY ARR GROWTH OF 22%





#### 1H23: ARR Key Metrics

- YoY ARR growth of 22% & 7% since June 2022
- Lower growth outcome primarily due to contract amendments with some enterprise customers
- 1,256 active subscribers, up 8% since June 2022
- Average Annual Recurring Revenue per Subscriber (ARPS) of \$5,847, down 1% from June 2022
- Partner program (30 partners) contributing \$1.2m to ARR

#### 1H23: Operational Impacts

- Aviation related operational challenges impacted capture program
- efficiency & expected customer outcomes in some geographies
- Aggressive retention pricing strategies by competitors was observed in 1H23 impacting new customer acquisitions
- Short-term strategies were implemented to support some customer expectations & preserve future ARR growth

# **3D MODELLING | ADVANCING HIGH RESOUTION VISUALISATION**

# aerometre

# Global 3D

Leverage Aerometrex's position as the world leader in highresolution 3D modelling

- Rejuvenate North American business opportunity
- Concerted effort to sell existing 'off-the-shelf' datasets
- Grow new markets & customer base to underpin capture programs & expand datasets
- Develop 3D team capability & resources

#### 1H23: Key Updates

- Seconded team sent to USA for ~ 3 months to build pipeline, increase product awareness & sell off-the-shelf datasets
- Single largest sale to date of USA 'off-the-shelf' models to Google Inc.
- Awarded largest street level capture for the Victorian Government for their transformative Melbourne Greenline Project \*

\* Immaterial from a group revenue perspective but a high-profile use case & single largest street level capture to be undertaken by the Company in Australia.



- Team returning to USA to continue 1H23 pipeline build momentum & increase product awareness
- Planning & undertaking CY23+ capture program in Australia & USA
- Technical innovation leveraging ML / AI & game engines to enhance product offerings or workflow efficiencies
- Recruitment of key roles for Global 3D activities

# LIDAR | STRENGTH IN UNDERLYING BUSINESS

# Lidar

#### Build Australia's leading LiDAR business

- Grow profit through commercial optimisation & asset utilisation
- Assess options to increase revenue via capital investment & new products
- Leverage BARS certification
- Enhance automation capability
- Optimise long-term aviation & sensor strategies

#### 1H23: Key Updates

- New sensor successfully integrated into operations
- Significant work on books of ~ \$6m as at December 2022
- Operational challenges encountered around aviation related
- factors impacted on-task hours resulting in a lower revenue outcome



- Planning to accelerate growing work on books into FY23 revenue
- Seeking to increase aviation uptime through improved operational efficiencies & expected lower aviation maintenance downtime
- Expecting a strong LiDAR market demand outlook into FY24

# AVIATION & SENSOR STRATEGIES | OPTIMISATION ACTIVITIES UNDERWAY

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# **Aviation & Sensors**

Optimising aviation & sensor related activities are key elements to support the imagery & data capture process

- Aerometrex undertakes its aviation activities via a fleet of owned & chartered aircraft
- Capture activities can be impacted by many planned & unplanned factors
- Weather, airspace access, geographical mobilisation & asset maintenance schedules are key elements that impact efficiencies

#### 1H23: Key Updates

- Camera sensor strategy being developed & transitioning to greater equipment standardisation to increase company-wide efficiencies & deliver enhanced customer outcomes
- Aviation review in progress (new GM Aviation commenced Jan 2023)
- Challenging operational environment encountered in 1H23 compounded by weather, airspace restrictions & supply chain logistics



- Arrival of two new IGI sensors to improve efficiencies & capture outcomes:
  - IGI Urban Mapper 2 expected to be operational in March 2023
  - IGI DigiCam expected to arrive late FY23 / early FY24
- Increased aviation uptime through improved operational efficiencies & expected lower aviation / sensor maintenance downtime during 2H23
- Aviation review anticipated to be completed by end 2H23

# 1H23 FINANCIAL RESULTS

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# FINANCIAL RESULTS OVERVIEW

# aerometrex

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Change

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#### nderlying activities deliver revenue growth

- Total underlying revenue increased 10% from \$9.1m to \$10.0m after normalising for the cessation of
- project photomapping which contributed \$2.3m in 1H22
- First revenue from MetroMap derived data analytics recognised \$0.1m
- Slight reduction in LiDAR revenue of \$4.8m, down from \$5.0m
- USA 3D modelling business revenue of \$0.8m, up from \$0.6m including dataset sale to Google Inc

#### Continued investment to underpin future growth

- Continued investment to build capacity ahead of the revenue curve
- Continued investment into US high-resolution 3D business
- Cash flow from operations of \$2.7m reinvested into datasets & capture assets

Strong cash position supports growth initiatives, with \$11.6m in cash & debt facilities available



## Operating Revenue

Operating revenue	Project Photomapping
e per a la gre re r	

			\$000	/0
Subscription revenue				
MetroMap	3,582	2,717	865	31.8%
Off-the-shelf dataset revenue				
3D	705	625	80	12.8%
MetroMap	10	-	10	100.0%
MetroMap derived data and analytics	125	-	125	100.0%
Off-the-shelf dataset revenue	840	625	215	34.4%
Project revenue				
3D	502	614	(112)	-18.2%
LiDAR	4,776	4,953	(177)	-3.6%
MetroMap - on demand	309	179	130	72.6%
Photo contracting	-	2,251	(2,251)	-100.0%
Project revenue	5,587	7,997	(2,410)	-30.1%
Total revenue from customers	10,009	11,339	(1,330)	-11.7%
EBITDA	370	524		
EBITDA (normalised)	370	652		
Cash flow from operating activities	2,656	1,076		
Cash used in investing activities	(4,871)	(4,959)		
Free cash flow	(2,215)	(3,883)		
Financial position				
	11 (04	10.070		

1H23

\$'000

1H22

\$'000

12,270

11,634

Cash and cash equivalents

# **SEGMENT FINANCIAL RESULTS**



#### **AU Operations**

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 Transition from project photomapping work to subscription model (DaaS) for MetroMap impacted financial outcomes
 Statutory revenue down 14% from \$10.7m to \$9.2m but growth in core underlying activities of \$0.7m or 9% (adjusted for the cessation of project photomapping work)
 Decline in EBITDA from \$0.7m to \$0.2m
 Continued investment into people & systems ahead of revenue growth
 Supply chain & aviation capture challenges impacted 1H23 results

Revenue increased 28% to \$0.8m following sale of datasets to Google Inc

Continued investment into US operations

	AUS	USA	Total	AUS	USA	Total
	1H23	1H23	1H23	1H22	1H22	1H22
	\$'000	\$'000	\$'000	\$'000	\$'000	\$'000
Revenue and other income	9,216	793	10,009	10,719	620	11,339
Aircraft and project processing costs	(2,597)	(27)	(2,624)	(3,074)	(98)	(3,172)
Employee benefits expense	(4,862)	(182)	(5,044)	(4,566)	(267)	(4,833)
Share based payments	(113)	-	(113)	(128)	-	(128)
Depreciation of property, plant and equipment	(1,484)	(17)	(1,501)	(1,364)	(17)	(1,381)
Amortisation of intangible assets	(2,706)	(306)	(3,012)	(2,627)	(112)	(2,739)
Other expenses	(1,433)	(425)	(1,858)	(2,299)	(383)	(2,682)
Finance costs	(43)	-	(43)	(49)	-	(49)
Finance income	151	-	151	15	-	15
(Loss) before income tax	(3,871)	(164)	(4,035)	(3,373)	(257)	(3,630)
Proforma EBITDA Calculation	AUS	USA	Total	AUS	USA	Total
by Geographical Segment	1H23	1H23	1H23	1H22	1H22	1H22
	\$'000	\$'000	\$'000	\$'000	\$'000	\$'000
(Loss) before income tax	(3,871)	(164)	(4,035)	(3,373)	(257)	(3,630)
Add back finance costs	43	-	43	49	-	49
Less finance income	(151)	-	(151)	(15)	-	(15)
Add back depreciation	1,484	17	1,501	1,364	17	1,381
Add back amortisation	2,706	306	3,012	2,627	112	2,739
EBITDA	211	159	370	652	(128)	524
Add back IPO related share-based payments	-	-	-	128	-	128
EBITDA (normalised)	211	159	370	780	(128)	652

# **BALANCE SHEET**

#### Strong balance sheet continues to supports growth

Available cash of \$11.6m to support continued growth of the business with available undrawn debt facilities

Collection of June 2022 trade receivables during 1H23 included the collection of the 'off-the-shelf' dataset sale to Department of Defence in June 2022 (\$2.6m)

Plant & Equipment increases reflects investment into revenue generating assets (sensors)

Intangibles reflects capitalisation of datasets

Contract Liabilities reflects income paid in advance - largely MetroMap subscription revenue

	Dec 2022	Jun 2022	
	\$'000	\$'000	
Assets			
Cash and cash equivalents	11,634	14,144	
Trade and other receivables	2,704	5,907	
Contract assets	241	311	
Property, plant and equipment	15,043	14,791	
Intangibles	9,146	9,040	
Other Assets	890	477	
Deferred tax assets	585		
Fotal assets	40,243	44,670	
Liabilities			
Trade and other payables	2,058	2,724	
	0.1.14	0.474	

Trade and other payables	2,058	2,724
Contract liabilities	3,146	3,476
Current tax liabilities	159	159
Employee benefits	2,220	2,027
Other liabilities	814	888
Lease liabilities	1,858	2,029
Deferred tax liabilities	-	366
Total liabilities	10,255	11,669
Net assets	29,988	33,001

# **CASH FLOW**

## Strong cash position to support growth

Positive cash flow from operations of \$2.7m

Continued investment in scaling the business for growth – capture systems

(sensors), people, systems & processes

Continued investment into US operations

Strong cash position supports growth initiatives, with \$11.6m & undrawn debt facilities available

	Dec 2022	Dec 2021
	\$'000	\$'000
Receipts from customers	13,890	13,109
Payments to suppliers and employees	(11,342)	(11,936)
Other operating cash flows	108	(97)
Net cash flow from operating activities	2,656	1,076
Payments for property, plant and equipment	(1,753)	(1,491)
Payments for intangible assets	(3,118)	(2,839)
Payments for acquisitions <sup>1</sup>	-	(629)
Net cash flow from investing activities	(4,871)	(4,959)
Free cash flow	(2,215)	(3,883)
Net cash flow from financing activities	(295)	(400)
Net cash flow	(2,510)	(4,283)
Cash and cash equivalents at start of year	14,144	16,553
Cash and cash equivalents at end of year	11,634	12,270

<sup>1</sup> Final payment for Spookfish acquisition.

# **STRATEGIC & TACTICAL FOCUS AREAS: 2H23**

## **Developing 'Pathways to Profitability'**

## ...but...

## . 2H23 operating environment challenges remain

- Continued focus on our people & safety
- Consolidation of new organisational restructure announced during 1H23
- Refine sales & customer strategies for all products, particularly MetroMap & 3D, including:
  - Product development to enhance customer offering & drive additional revenue streams
  - Market awareness & education
  - Enhancing sales partnership & channels
- Ongoing focus on driving revenue & operational efficiencies:
  - Accelerate LiDAR capture in 2H23 to drive revenue & cashflow to take advantage of strong pipeline of work on books
  - Improve aviation uptime & asset utilisation to maximise return on capital deployed
  - Standardisation of camera sensor fleet to assist in efficiency gains & improve asset utilisation
- Ongoing technical innovation to realise opportunities associated with ML & AI

- Overarching uncertain economic conditions require close customer engagement & oversight of operational activities
- Various other external factors continue to have the potential to disrupt operational execution strategies, including:
  - Long-lasting weather events
  - Access to air space
  - Unscheduled asset maintenance & time to undertake maintenance
  - Supply chain logistics for key materials
- US 3D market product awareness & business build may take longer than anticipated
- Recruitment market for specialist roles remains tight

# **APPENDIX 1** FINANCIAL STATEMENTS

LiDAR-based tree canopy map River Torrens, Adelaide

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# **PROFIT OR LOSS STATEMENT & EBITDA RECONCILIATION**

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	1H23	1H22
	\$'000	\$'000
Revenue and other income	10,009	11,339
Aircraft and project processing costs	(2,624)	(3,172)
Employee benefits expense	(5,044)	(4,833)
Share based payments	(113)	(128)
Depreciation of property, plant and equipment	(1,501)	(1,381)
Amortisation of intangible assets	(3,012)	(2,739)
Advertising and marketing	(260)	(408)
Consulting and professional services	(303)	(643)
IT and telecommunications	(154)	(481)
Occupancy	(85)	(65)
Travel and accommodation	(360)	(182)
Other expenses	(696)	(903)
Finance costs	(43)	(49)
Finance income	151	15
(Loss) before income tax	(4,035)	(3,630)
Income tax benefit	951	816
(Loss) for the year after income tax	(3,084)	(2,814)

Proforma EBITDA Calculation	1H23	1H22	
	\$'000	\$'000	
(Loss) before income tax	(4,035)	(3,630)	
Add back finance costs	43	49	
Less finance income	(151)	(15)	
Add back depreciation	1,501	1,381	
Add back amortisation	3,012	2,739	
BITDA	370	524	
Add back IPO related share-based payments	-	128	
EBITDA (normalised)	370	652	

# **SEGMENT INFORMATION**

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	AUS 1H23	USA 1H23	Total 1H23	AUS 1H22	USA 1H22	Total 1H22
	\$'000	\$'000	\$'000	\$'000	\$'000	\$'000
Revenue and other income	9,216	793	10,009	10,719	620	11,339
Aircraft and project processing costs	(2,597)	(27)	(2,624)	(3,074)	(98)	(3,172)
Employee benefits expense	(4,862)	(182)	(5,044)	(4,566)	(267)	(4,833)
Share based payments	(113)	-	(113)	(128)	-	(128)
Depreciation of property, plant and equipment	(1,484)	(17)	(1,501)	(1,364)	(17)	(1,381)
Amortisation of intangible assets	(2,706)	(306)	(3,012)	(2,627)	(112)	(2,739)
Advertising and marketing	(190)	(70)	(260)	(354)	(54)	(408)
Consulting and professional services	(267)	(36)	(303)	(530)	(113)	(643)
IT and telecommunications	(151)	(3)	(154)	(479)	(2)	(481)
Occupancy	(85)	-	(85)	(63)	(2)	(65)
U Travel and accommodation	(131)	(229)	(360)	(41)	(141)	(182)
Other expenses	(609)	(87)	(696)	(832)	(71)	(903)
Finance costs	(43)	-	(43)	(49)	-	(49)
Finance income	151	-	151	15	-	15
(Loss) before income tax	(3,871)	(164)	(4,035)	(3,373)	(257)	(3,630)
Income tax benefit	951	-	951	816	-	816
(Loss) for the year after income tax	(2,920)	(164)	(3,084)	(2,557)	(257)	(2,814)
Proforma EBITDA Calculation	AUS	USA	Total	AUS	USA	Total
by Geographical Segment	1H23	1H23	1H23	1H22	1H22	1H22
-	\$'000	\$'000	\$'000	\$'000	\$'000	\$'000
(Loss) for the year after income tax	(3,871)	(164)	(4,035)	(3,373)	(257)	(3,630)
Add back finance costs	43	-	43	49	-	49
Less finance income	(151)	-	(151)	(15)	-	(15)
Add back depreciation	1,484	17	1,501	1,364	17	1,381
Add back amortisation	2,706	306	3,012	2,627	112	2,739
EBITDA	211	159	370	652	(128)	524
Add back IPO related share-based payments	-	-	-	128	-	128
EBITDA (normalised)	211	159	370	780	(128)	652

# STATEMENT OF FINANCIAL POSITION

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	Dec 2022 \$'000	Jun 2022 \$'000
Assets		
Current		
Cash and cash equivalents	11,634	14,144
Trade and other receivables	2,704	5,907
Contract assets	241	311
Other assets	890	477
Fotal current assets	15,469	20,839

#### Non-current

Property, plant and equipment	15,043	14,791
Intangibles	9,146	9,040
Deferred tax assets	585	-
Total non-current assets	24,774	23,831
Total assets	40,243	44,670
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	Dec 2022	Jun 2022
	\$'000	\$'000
Liabilities		
Current		
Trade and other payables	2,058	2,724
Contract liabilities	3,146	3,476
Current tax liabilities	159	159
Other financial liabilities	279	266
Lease liabilities	350	345
Employee benefits	2,054	1,890
Total current liabilities	8,046	8,860
Non-current		
Other financial liabilities	535	622
Lease liabilities	1,508	1,684
Employee benefits	166	137
Deferred tax liabilities	-	366
Total non-current liabilities	2,209	2,809
Total liabilities	10,255	11,669

Net assets

29,988

33,001

	Dec 2022 \$'000	Jun 2022 \$'000
Equity		
Equity attributable to owners of the parent:		
Issued capital, net of treasury shares	32,930	32,892
Share based payment reserve	1,669	1,743
Other reserves	(2)	(10)
Retained earnings	(4,609)	(1,624)
Total equity	29,988	33,001

22

# STATEMENT OF CASH FLOWS

Net cash generated from operating activities	2,656	1,076
Interest paid	(43)	(49)
Interest received	151	15
Income taxes received / (paid)	-	(63)
Payments to suppliers and employees	(11,342)	(11,936)
Receipts from customers	13,890	13,109
Operating activities		
2	1H23 \$'000	1H22 \$'000

	1H23	1H22
	\$'000	\$'000
Financing activities		
Repayment of other financial liabilities	(74)	(378)
Repayment of lease liabilities	(171)	(22)
Acquisition of treasury shares	(50)	-
Net cash used in financing activities	(295)	(400)
Net decrease in cash and cash equivalents	(2,510)	(4,283)
Cash and cash equivalents at the beginning of the period	14,144	16,553
Cash and cash equivalents at the end of the period	11,634	12,270

$\bigcirc$	let cash used in investing activities	(4,871)	(4,959)
	Payments for acquisitions <sup>1</sup>	-	(629)
	Payments for intangible assets	(3,118)	(2,839)
	Payments for property, plant and equipment	(1,753)	(1,491)

<sup>777</sup> Final payment for Spookfish acquisition.

# APPENDIX 2 COMPANY OVERVIEW

For personal

# **OUR CUSTOMER VALUE PROPOSITION**

# aerometrex

#### Plan & communicate with confidence

Our products meet high accuracy standards ensuring customers are confident in remote planning, quantitative assessment, AI application & decision making.

## Derive smarter insights

Our range of imagery, LiDAR & 3D solutions offers customers the ability to integrate datasets & derive greater insights to solve critical business problems.

#### Save time & money

Remote surveys ensure that our customers are saving time & money by reducing onsite inspections & the risk of errors by planning early & simulating outcomes.

#### Monitor change with ease

With multi-year data archives across 2D, 3D & LiDAR, our customers can step back in time & assess critical change for planning & policy building.

#### Integrate seamlessly

Our solutions & data integrate with most industry-leading applications, ensuring customers require minimal change management efforts.

Aerometrex 3D Model Manhattan Bridge Arch, New York



# **BOARD & MANAGEMENT OVERVIEW**







MARK LINDH Independent Non-Executive Director, Chair



PETER FOSTER Independent Non-Executive Director



STEVE MASTERS Managing Director & Chief Executive Officer



MATTHEW WHITE Non-Executive Director



DONALD MCGURK Independent Non-Executive Director



KAITLIN SMITH Company Secretary



STEVE MASTERS Managing Director & Chief Executive Officer



DAVID BYRNE General Manager Global 3D



STUART WILEMAN General Manager MetroMap



CHRIS MAHAR Chief Financial Officer



MATTHEW SIMMONS General Manager LiDAR



KOBUS SWART General Manager Aviation

# METROMAP

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MetroMap is Aerometrex's product offering that supplies Data as a Service (DaaS) – both via subscription (aerial imagery), as well as off-the-shelf datasets (3D & LiDAR). MetroMap is the future of accurate geospatial data, accessible by everyone from large corporates & government departments to SMEs & individuals.

## Major Use Cases

Urban planning, asset management & community engagement by local councils Planning, building & maintenance of critical infrastructure Integrating accurate base maps with other business databases to aid operations Evaluating faster, & more accurately based on detailed risk assessment Showcasing property developments with visual imagery & data attributes Optimising telecommunication networks using updated 2D & 3D datasets Managing disaster planning & environmental change with accurate ground details

## **Key Products**

- 3-band & 4-band aerial imagery subscription (MetroMap 2D)
- AI enabled feature layers (Building & Cadastre)
- Off-the-shelf 3D city models (MetroMap 3D)
- Off-the-shelf LiDAR derived datasets (MetroMap LiDAR)

 MetroMap Aerial Imagery

 Shrine of Remembrance, Melbourne

# METROMAP | DELIVERING MORE THAN JUST MAPS



MetroMap offers accurate insights to a range of users, both in 2D as well as 3D. With measurement tools at their fingertips & the ability to showcase areas of interest in high resolution, remote working has become more powerful. The addition of data overlays means MetroMap is delivering insights that go beyond the conventional definition or role of maps.

#### Democratising the use of spatial information

Flexible & scalable DaaS solution with on-demand features
Simplified tools & seamless access that is platform agnostic
Agile innovation to suit a variety of use cases
Accessible through a wide partner network & their custom applications
Expanding access to 3D & LiDAR data through off-the-shelf library

#### Deriving business insights from spatial data

Enabling workflows & business reporting from spatial imagery & derived data
 Insights & solutions with added machine learning capabilities & AI-derived analytics
 Multi-source data integration for ease of visualisation & decision making

MetroMap Aerial Imagery Sydney Airport, Sydney

# **3D MODELLING**

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Our world-leading 3D solution offers digital replicas of real-world settings. Generated from aerial & ground imagery, these models offer extremely high accuracy & resolution making them great for both planning & visualisation. Data is available off-the-shelf (MetroMap 3D Store) for major urban locations or can be captured through custom projects.

## Major Use Cases

3D Base Maps for digital twins & smart city projects Planning & monitoring of critical infrastructure projects Urban planning & assessment of new developments Digitisation of heritage buildings, conservation & tourism Context for virtual films, games & simulation environments Foundation for emerging metaverse solutions

## Key Products

- 3D Mesh Models of urban, rural & natural environments
- 3D Semantic Level of Detail (LOD) Models
- Artificial intelligence & machine learning enabled value-added products such as Classified
- 3D mesh & feature capture
- 3D visualisation products for audio-visual, gaming, & virtual or augmented reality



Aerometrex 3D Model The Venetian, Las Vegas

# 3D | THE KEY TO FUTURE PLANNING & VISUALISATION

Aerometrex is recognised within the industry as leading suppliers for large-scale, high-resolution 3D data. We are constantly innovating to deliver the best 3D solutions for existing users & developing usable assets for new applications & industries.

#### World-leading data for planning...

Perfect for strategic project management & monitoring Derived from highly accurate imagery, offering the confidence of precision Flexible format delivery enables cross-system integration Artificial intelligence & machine learning offer value-added solutions

#### Real-world visualisation for showcasing...

High-resolution data allows for near-real replicas of the captured area Integrates with modern game engines opening data use to new markets From augmented & virtual reality to the metaverse (extended reality), offers realworld context to a simulated environment Great for stakeholder engagement & visual communication

> Aerometrex 3D Model St Patrick Cathedral, Melbourne

# aerometrex



# LIDAR

# aerometrex

LiDAR (Light Detection & Ranging) technology & the information derived from it has become a critical asset for numerous planning & monitoring purposes, even more so when combined with imagery. Remote sensors acquire details of both the terrain & any above-ground features such as vegetation & infrastructure, with accuracy & resolution unparalleled by other airborne methods.

## Major Use Cases

Environmental mapping including flood modelling, catchment analysis, urban heat islands & bushfire fuel load mapping

Stockpile analysis, windrow analysis for mining & exploration sites Engineering design across projects spanning transport, oil & gas, & renewables (wind & solar)

Canopy growth & volume analysis across forestry & urban vegetation Vegetation encroachment mapping along powerlines

## **Wey Products**

- <sup>There</sup> Point Clouds (Colourised / Classified)
- Elevation & Topography Data
- Vegetation Data
- Bushfire Fuel Load Data Suite



# LIDAR | SINGLE CAPTURE – MULTIPLE USES

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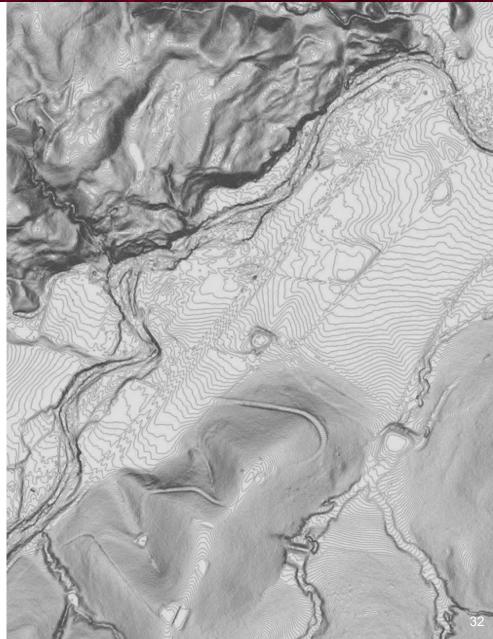
LiDAR offers businesses high-value return due to the number of derived spatial outputs that can be generated from a single survey. Our data is consistent & accurate making it comparable across a wide range of uses.

#### **Tailored captures for specific end-use**

Ideal for mapping terrain & above-ground features such as vegetation & infrastructure Accuracy & resolution unparalleled by other airborne methods Capture specifications defined by customer use case & area of interest Data classification matched to customer application & budget

#### Increased cost-effectiveness & numerous benefits

Multiple derived datasets & reports allow greater return from LiDAR captures Simultaneous aerial imagery captures allow derivation of greater business insights Off-the-shelf datasets allow for quick turnaround at an efficient cost



LiDAR-derived Contour Map Australia

# **CONTACT INFORMATION**

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This presentation has been approved by the Board of Aerometrex.

