



DUG Technology Ltd

H1 FY23 Investor Presentation February 2023

Our business



Business Units

National Security & Space



Oil & Gas



Enterprise













Product Lines



Software

- Analytic software development
- Algorithms and optimisation
- Data processing and visualisation
- DUG Insight in 59 countries



High Performance Computing (HPC)

- Green HPC and storage
- Patented DUG Cool immersion technology
- Design/own/operate some of the largest and greenest supercomputers on Earth
- Deployable complete HPC system



Services

- Data science
- Geoscience
- High-frequency Full Waveform Inversion

Delivery Platform



- Private and secure
- Communication layers
- Manage users
- Allows usage monitoring and much more

Our ambition



At the forefront of technical excellence and innovation



Be a global leader in data management and oil & gas seismic imaging



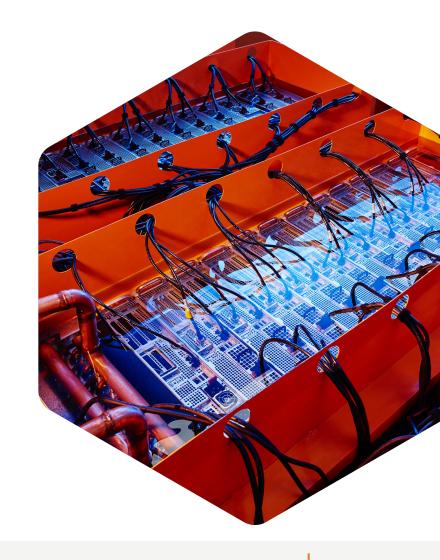
Leverage strong history into new compelling industries



Supply clients with worldclass and sustainable supercomputing



Focus on R&D to foster innovation and industry leading technology



H1 FY23 snapshot





Strong order intake

- Services contract wins of US\$24.7 million, up 19% on H2 FY22 and 305% on H1 FY22
- Strong wins follow US\$20.8 million in contracts awarded during H2 FY22



Record breaking results

Record breaking profit and loss results on all measures

- Revenue of US\$25.2 million (H1 FY22: US\$17.0 million)
- EBITDA of US\$7.6 million (H1 FY22: US\$0.1 million)
- NPAT of US\$2.6 million
 (H1 FY22: loss of US\$5.8 million)



Positive cash flow and low net debt

- Operating cash inflows of US\$3.0 million, includes working capital outflows totalling US\$3.4 million
- o Cash of US\$2.5 million
- Net debt of US\$2.0 million

Positioned to capitalise



Tailwinds from emerging global themes

- Increasing complexity and size of data
- Emphasis on agile and complex data analytics
- Growing demand for cloud storage
- Focus on environmental sustainability
- Heightening cybersecurity risks





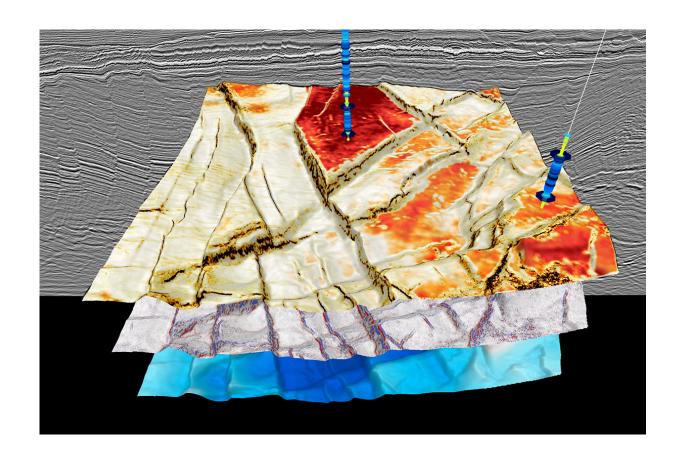


- Revolutionary geoscience imaging and analysis technology
- ✓ Bespoke data solutions and expert support
- ✓ State-of-the-art computing hardware
- ✓ Sustainable, power-efficient supercomputing
- Multi-tiered cyber and data security, ISO 9001 and ISO 27001

Software



- Revenue of US\$3.2 million
- o Growth in revenue of 9% on H1 FY22
- Strong renewals and client wins during the period
- Top 3 software clients tied to multi-year (3-5 year)
 agreements. Total combined revenue >US\$1.3 million per annum
- Incremental opportunities from FWI technology

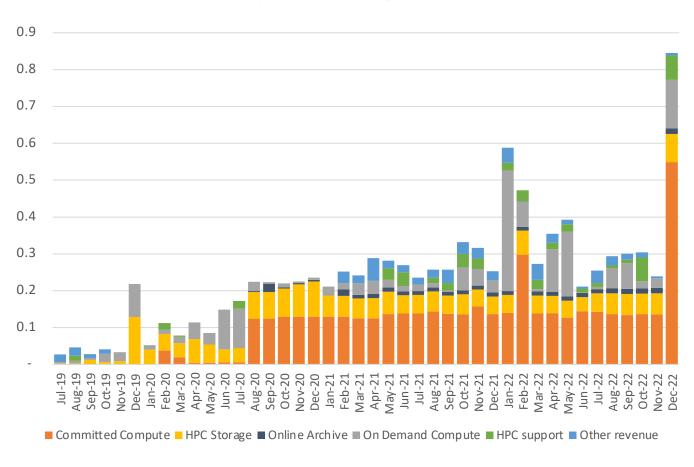


HPCaaS



- Revenue of US\$2.2 million
- o Growth in revenue of 29% on H1 FY22
- Record billings in December 2022 support H2 FY23 revenue
- Strategically important new clients including:
 - Committed compute and storage with Monash University
 - On-demand services for University of Western Australia and Murdoch University signed in recent months
- Investment in equipment to further support, asset financing available to continue to invest
- ISO 9001 and ISO 27001 attained during the period;
 Defence Industry Security Program application lodged and under assessment

Third Party HPCaaS Billings (US\$millions)

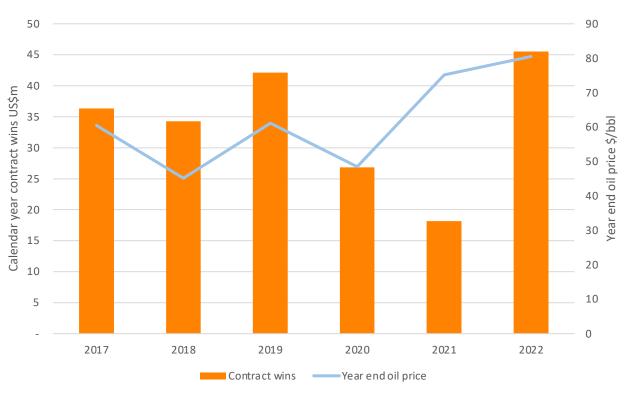


Services



- Revenue of US\$19.8 million
- o Growth in revenue of 60% on H1 FY22
- Record calendar year order intake of US\$45.5 million supported by improved oil prices
- Access to larger projects from enhanced reputation in the market
- Reduced cost base and localised incentives driving improved EBITDA
- Successful FWI Imaging trials, further opportunities expected

Historic Services Calendar Year Order Intake



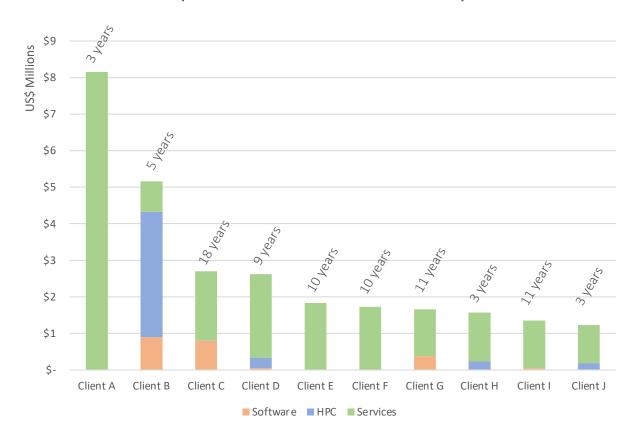
Source: https://www.macrotrends.net/ and Company Data

Deep Client Relationships



- Our top 10 clients accounted for 50% of revenue for the last 18 months
- Deep longevity of relationships with large clients, across multiple product lines
- Relationships developed have led to larger, longerterm projects with major clients
- Important recent client wins supplementing longstanding relationships

Top 10 customers by revenue and by relationship length (FY22 and H1 FY23 combined)



Outlook



- Services order intake has increased work in hand to US\$28.8 million at 31 December 2022, up 30% compared to 30 June 2022.
- Software revenues will be supported by strong renewals with existing clients as well as contracted client wins during H1
 FY23.
- HPCaaS expected to continue to penetrate the Australian non-oil and gas market with a key client win in Monash University. DUG broadened its customer mix over the current period.
- FWI Imaging expected to continue to create opportunities in the market, further differentiating DUG from its competitors.
- Unaudited January 2023 EBITDA result of US\$2.7 million, including US\$2.5 million from the sale of multi-client data previously announced.
- H2 FY23 is expected to deliver improved operating cash returns compared to H1 FY23. Unaudited operating cash flows for the month of January 2023 were US\$1.6 million, with an unaudited cash balance of US\$3.2 million and net debt of US\$0.8 million at 31 January 2023.
- Cash has continued to grow throughout February 2023 with unaudited US\$5.4 million on hand at 24 February 2023.
- o DUG does not intend to issue earnings guidance for H2 FY23.



Financials

Profit and Loss



- US\$8.6 million (52%) increase in total revenue from H2 FY22:
 - Software seasonal revenue business due to timing of renewals. Growth of 9% on H1 FY22.
 - HPCaaS steady revenue overall to H2 FY22,
 continued growth in non-oil and gas revenues.
 - Services strong performance following high order flow since March 2022, driven by buoyant US and London markets and supported by DUG's new FWI technology.
- Reset cost base and high operating leverage paying off through increased EBITDA margins.
- Reduced financing costs from debt repayment.
- o Return to positive Net Profit after Tax.

USD'm	H1 FY23 ¹	H2 FY22	H1 FY22	% Change	% Change
				НоН	YoY
Revenue					
Software	3.2	3.2	2.9	-	9%
HPCaaS	2.2	2.2	1.7	-	29%
Services	19.8	11.2	12.4	77%	60%
Total Revenue	25.2	16.6	17.0	52%	48%
Other income	1.2	1.6	2.3	(25%)	(48%)
Employee benefits	(13.7)	(11.3)	(14.1)	(21%)	3%
Other operating costs	(5.1)	(4.2)	(5.2)	(21%)	2%
EBITDA	7.6	2.7	-	181%	n/a
EBITDA margin	30%	16%	-	14%	n/a
Depreciation and	(3.2)	(4.0)	(3.7)	20%	14%
amortisation					
EBIT	4.4	(1.3)	(3.7)	1	1
Finance expense	(0.6)	(0.8)	(0.8)	25%	25%
Net profit before tax	3.8	(2.1)	(4.5)	1	↑
Net profit after tax	2.6	(3.6)	(5.8)	1	1

¹ Note – financial information is in USD and is provided based on preliminary 1H FY23 unaudited results

Balance Sheet



- Debt levels in line with 30 June 2022 at US\$4.5 million gross debt and US\$2.0 million net debt
- Net debt : EBITDA (Last 12 Months) is 0.19x
- New asset financing facilities utilised during the period to support growth capital expenditure
- o Increase in all working capital lines, driven by revenue growth and some timing differences which will flow through to increase H2 FY23 cash flows
- Increase in right of use assets and lease liabilities from a new office lease in London, as part of the cost saving measures.

USD'm	31 Dec 2022 ¹	30 Jun 2022
Current Assets		
Cash and cash equivalents	2.5	2.7
Trade and other receivables	10.1	4.9
Contract assets	2.5	0.3
Other	1.5	1.7
Total Current Assets	16.6	9.6
Non Current Assets		
Property, plant and equipment	18.1	19.1
Right of use assets and other	11.2	10.4
Total Non Current Assets	29.3	29.5
Total Assets	45.9	39.1
Current Liabilities		
Trade and other payables	5.3	2.7
Loans and borrowings	2.8	2.0
Contract liabilities	4.0	2.7
Lease liabilities	1.4	1.6
Provisions	2.4	2.8
Total Current Liabilities	15.9	11.8
Non Current Liabilities		
Loans and borrowings	1.7	2.5
Lease liabilities	11.6	10.8
Provisions	0.1	0.1
Total Non Current Liabilities	13.4	13.4
Total Liabilities	29.3	25.2
Net Assets	16.6	13.9

¹ Note – financial information is in USD and is provided based on preliminary 1H FY23 unaudited results

Cash Flow



- Operating cash inflows of US\$3.0 million included a build up of US\$3.6 million of working capital, a portion of which is expected to unwind during H2 FY23
- Financing cash outflows of US\$2.0 million included term debt repayments of US\$0.5 million (US\$1.5 million expected in H2 FY23) and an inflow of US\$0.3 million from asset financing
- During the period, US\$1.2 million was invested into growth capital expenditure for new computer hardware in Australia to support clients outside the oil and gas industry

USD'm	1H FY23 ¹	2H FY22	1H FY22
	1111123	2111122	1111122
Cash flow from operating activities - EBITDA	7.6	2.7	
- Movement in working capital	(3.6)	2.7 0.9	- (0.5)
- Non-cash items in EBITDA	(3.0)	(1.6)	(0.3)
- Other	0.2	0.1	0.3
Total net cash flows from operating activities	3.0	2.1	(2.5)
	3.0	2.1	(2.5)
Cash flows from financing activities			_
- Net proceeds from issue of shares	-	-	11.7
- Drawdowns on asset financing facilities	0.3	-	-
- Net repayment of bank debt	(0.5)	(8.0)	(5.3)
- Net repayment of leases and other financing	(1.2)	(1.1)	(1.1)
facilities			
- Financing costs	(0.6)	(0.6)	(0.7)
- Other	-	(0.1)	(0.1)
Total net cash flows from financing activities	(2.0)	(9.8)	4.5
Cash flows from investing activities			
- Purchase of assets	(1.2)	(0.6)	(0.9)
- Disposals of assets	0.1	-	-
Total net cash flows from financing activities	(1.1)	(0.6)	(0.9)
Opening cash balance	2.7	11.2	10.0
Net cash flows	(0.1)	(8.3)	1.2
Effect of foreign exchange	(0.1)	(0.2)	-
Closing cash balance	2.5	2.7	11.2

Note – financial information is in USD and is provided based on preliminary unaudited results. Cash flow from operating activities disclosed in Appendix 4C's lodged with the ASX include financing costs, the group have elected to include financing costs in financing cash flows for statutory reporting purposes, as presented above

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All amounts are in United States Dollars (US\$) unless otherwise stated.



Appendices and Case Studies

DUG Overview



- ASX-listed global technology company with offices in London, Houston and Kuala Lumpur—HQ in Perth
- Founded in 2003 by Dr Matthew Lamont and Dr Troy Thompson to introduce an enhanced Decision Support System to the Oil & Gas industry
- Designs, owns and operates some of the largest and greenest supercomputing installations on Earth
- World-leading innovators with almost two decades of experience in high performance computing and 10 years in immersion cooling
- Over 250 employees, with 100 based right here in Australia
- R&D-focus—strong team of data scientists and big-data experts
- 14 patents granted and in application



DUG's global footprint

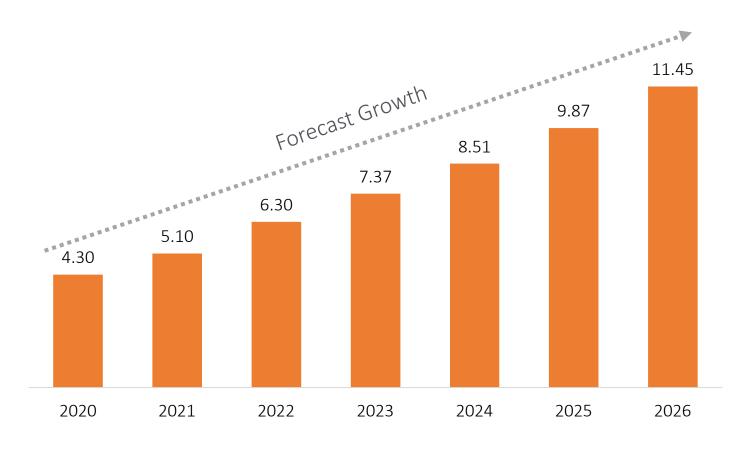




Global opportunity



Global HPC Cloud Market Size (US\$ billion)¹



US\$11.5bn

Global HPC Market Value 2026 Forecast



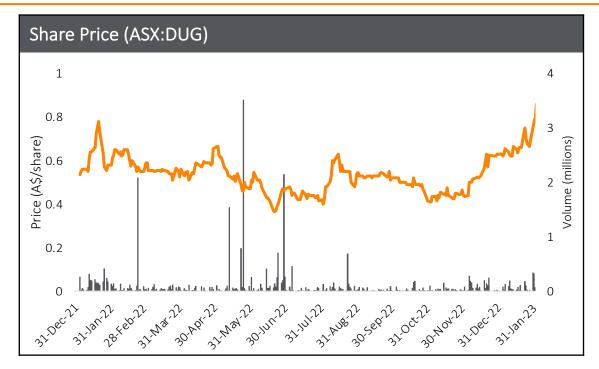
+17.6%

Forecast CAGR 2022 to 2026

(1) https://www.hpcwire.com/2022/05/30/hyperion-hpc-market-is-stabilizing-and-headed-to-50b-by-2026/

Corporate summary





Board of Directors	
Frank Sciarrone	Non-Executive Chairman
Matthew Lamont Ph.D.	Managing Director
Louise Bower	Non-Executive Director
Mark Puzey	Non-Executive Director

Corporate Structure	Units	
Share Price (as at 22 Feb 2023)	A\$/sh	0.85
Shares on Issue	#m	118.1
Market Capitalisation	A\$m	100.4
(+) Financial Debt¹ (as at 31 Dec 2022)	A\$m	6.6
(-) Cash at Bank¹ (as at 31 Dec 2022)	A\$m	3.7
Enterprise Value	A\$m	103.3

Substantial Shareholders (as at 4 November 2022)	
Mr Matthew Lamont	20.4%
Perennial Value Management Limited	15.0%
Regal Funds Management Pty Ltd	9.2%
Thorney Investment Group	7.0%
Mr Philip Imperial Schwan	6.1%
Top 20 Shareholders	73.2%

Case study – Sharpening Earth observation capabilities



- Smart-satellite provider LatConnect 60 is working to promote a subscription-based monitoring service to enhance crop management
- To sustain a large-scale deployment of the service, LatConnect 60 required a tailored, costeffective and efficient solution
- DUG provided the required compute capacity and an optimal software environment for LatConnect 60 to run its workflows and analyses

"We have been thoroughly impressed by the speed and scale at which DUG's HPC offering has been able to support our agriculture analytics services. Dataprocessing tasks which took us weeks in the past can now be completed in hours. This is a game-changing development for us."

Venkat Pillay, CEO of LatConnect60



Case study – Supercharging medical research at Perkins



- Researchers at the Harry Perkins Institute of Medical Research (Perkins) must constantly develop new algorithms and methodologies to keep pace with the rapid evolution of bioinformatics
- Perkins required a fully supported HPC system designed to let them store, process and analyse colossal amounts of genomic data in their unconventional ways
- DUG provided Perkins researchers with tailored HPC expertise and support, ensuring their workflows could leverage state-of-the-art processors and storage systems such as VAST Data's massive scalable storage system that can service any I/O load

DUG's bespoke HPC solution gave Perkins researchers quick and easy access to their huge datasets without computational restriction

Perkins said: "Trusting the technology to the experts at DUG, we can now get back to our #1 priority - saving lives."





Case study – Better and greener shipbuilding



- Ship design specialists at Austal perform resource-intensive computational analyses to improve the efficiency and performance of its industry-leading defence and commercial vessels
- Austal required quick access to different hardware and an efficient, flexible cloud platform to meet its increasing computational demands, while reducing its greenhouse-gas emissions
- Providing tailored HPC expertise and bespoke optimisation support such as benchmarking and job scheduling, DUG experts ensured Austal's computational fluid dynamics software and workflows could leverage DUG McCloud

DUG's bespoke HPC solution and expert support encouraged Austal to fully embrace cloud computing for its research and design processes

DUG's patented immersion-cooling technology helped reduce energy consumption by up to 51%, enabling Austal to meet its ESG requirements





Case study – The SKA project



- The Square Kilometre Array (SKA) Project is one of the largest international scientific research projects in history
- The Murchison Widefield Array (MWA) telescope had amassed a backlog of data that was being processed using the Pawsey Supercomputing Centre
- DUG HPC experts took two weeks to optimise the academic code used to process the MWA data and achieved run-times that were 125x faster

DUG's support and HPC expertise allowed the ICRAR team to process their data backlog in three hours, using just a fifth of DUG's supercomputer in Perth

DUG's green HPC was credited for lowering emissions

ICRAR published a paper two years ahead of schedule, with 100+ citations

Case study – Outsmarting bushfires with Al



- The Frontier Development Lab AusNZ approached DUG to provide the HPC service and support for Data Quest 2020—a research sprint incorporating artificial intelligence (AI) into firefighting
- Predicting and preventing bushfires are arduous tasks due to the complexity of the processes involved, coupled with obsolete tools that require manual input
- DUG supplied HPC resources and data science expertise, enabling the researchers to efficiently test AI-powered systems by leveraging terabytes of satellite data

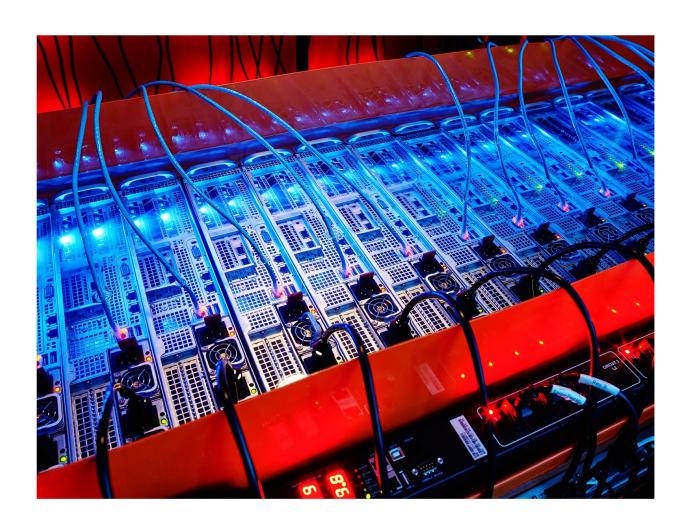
A number of innovative AI solutions for bushfire prevention and management were successfully developed

Clear, demonstrable pathways and deployable tools for future use by fire experts and first responders



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