



Investor Presentation

Commercialised PFAS Solutions

Lewis Utting

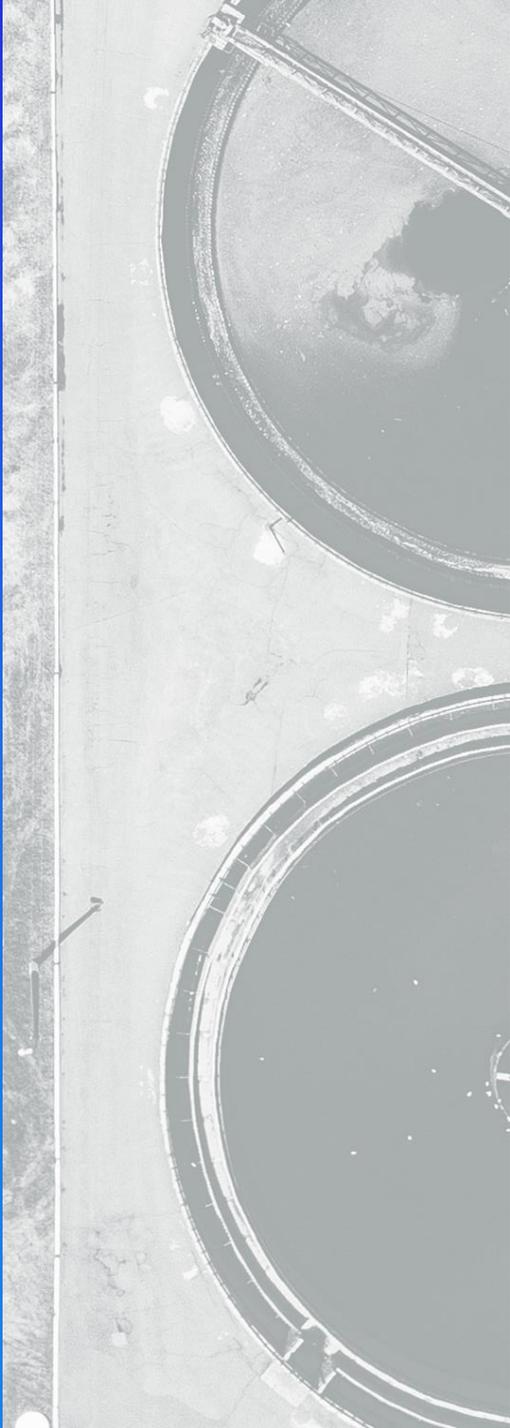
MANAGING DIRECTOR &
CHIEF EXECUTIVE OFFICER



Making Water Work *Harder*



SciDev brings together world-class technology, chemistry and application expertise to solve pressing operational and environmental issues for the water, oil and gas, mining and construction markets



SciDev is a leader in the **environmental solutions market** focused on water intensive industries. Our solutions allow our clients to:



Recycle and reuse water



Reduce waste footprints and costs



Improve operational efficiencies

Our unique **solutions** provide:



The only commercialised, sustainable approach to tackle the global PFAS problem



Environmentally better outcomes for our clients when dealing with liquid wastes in the Mining, Construction and Oil & Gas verticals

Our *Business*

SciDev target four global key verticals

 Mining & Mineral Processing

 Oil & Gas

 Infrastructure & Construction

 Water Treatment

1. FY21 included contribution from SciDev Water Services Pty Ltd, the acquirer of the Haldon business. Contribution from SciDev Water Services was recognised from 12 May 2021 to end of the financial year

 SciDev Solutions

 Addressable Market

 FY21 Revenue¹

 **Mining & Mineral Processing**

SciDev is an industry leader in solids-liquid separation in the mining and mineral processing sector.

US \$2bn

Global mineral processing chemistry market.

A\$15m

 **Oil & Gas**

Engineered performance solutions to recycle, reuse and minimise oilfield water waste.

US \$2bn

Specialty and production chemical market in US oil and gas industry.

A\$15m

 **Infrastructure & Construction**

Reduce costs and operational downtime in the infrastructure and construction sectors.

US \$1bn

Infrastructure and construction dewatering chemistry market.

A\$7m

 **Water Treatment**

Leading environmental solution provider of BOO, D&C water treatment plants for nutrient, heavy metal and organic pollutant removal

US \$6bn

PFAS, municipal and industrial water treatment market.

A\$5m



Bespoke solutions are our competitive advantage

Our unique combination of world-class technology, chemistry and application expertise enables us to deliver site-specific solutions to deliver better outcomes for our clients



60 PEOPLE

>80%

of our staff are tertiary educated as scientists, engineers, chemists, greatly aiding our business development process



RESREARCH

>150hrs

of research per client to develop a bespoke chemistry solution to meet their specific requirements



SOLUTIONS

12

new solutions developed and commercialised by SciDev to specifically address a clients unique environmental problem



EFFICIENCY

>20%

operational efficiency generated by our offer when we are the provider of services, technology and chemistry



COST SAVING

>20%

saving on a clients cost base by using SciDev chemistry and professional solutions when assessing the total cost of ownership (TOC)



The market *opportunity* & competitive landscape

SciDev is focused on delivering environmental solutions for water intensive industries which is a **US\$11 billion** sector within the broader **US\$100bn** global commodity chemistry market.

SciDev has significant opportunity for growth. Our current operational footprint is as follows:



ACTIVE ON

6/195

Rigs in the US shale industry



ACTIVE ON

<1%

Mine sites globally



ACTIVE ON

>14

Water processing sites globally



SERVICED

7km

Global TBM Slurry market 500km

THE COMPETITION

kemira

ENVIROPACIFIC

ECOLAB

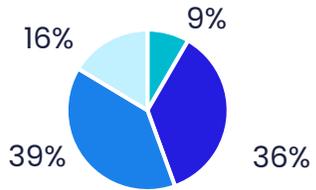
S SOLVAY

resource management
synergy



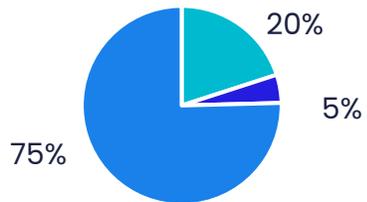
Continued Growth¹

FY21 Revenue Mix

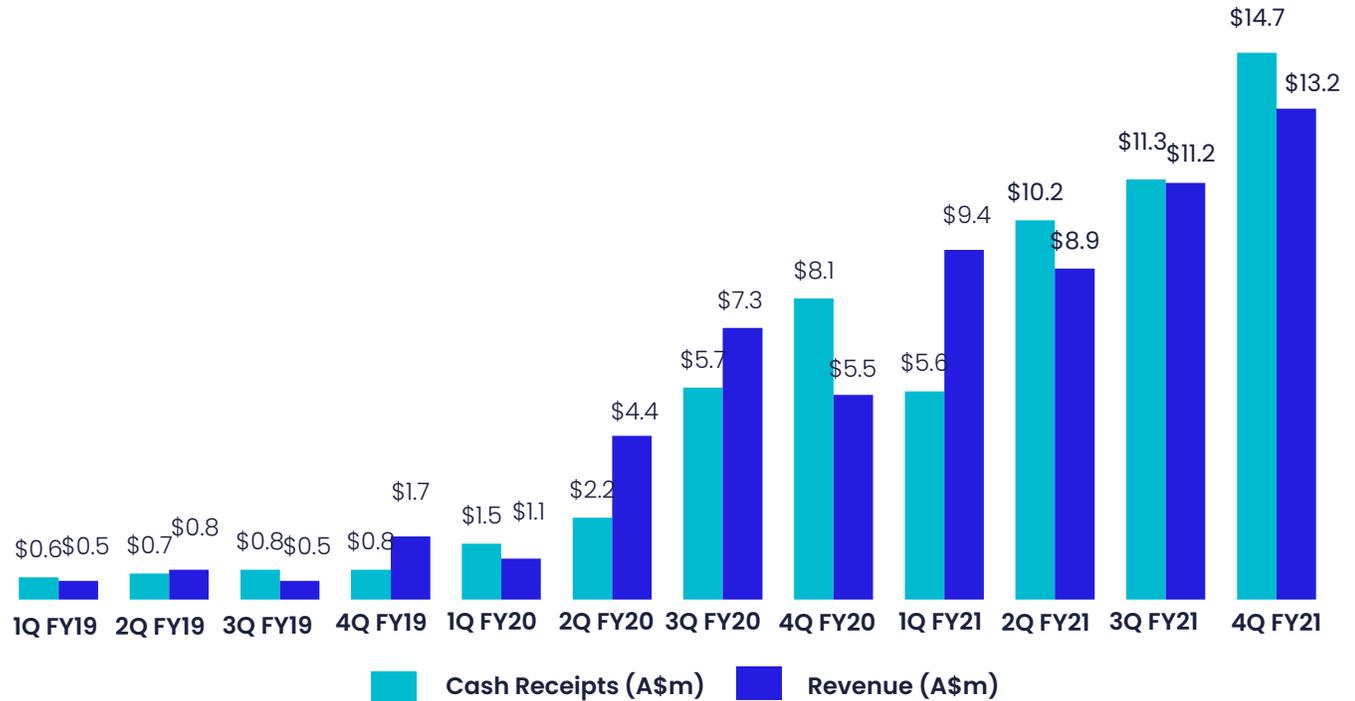


- Water
- Mining
- Oil
- Infrastructure

FY21 Revenue Mix



- Project
- Services
- Recurring

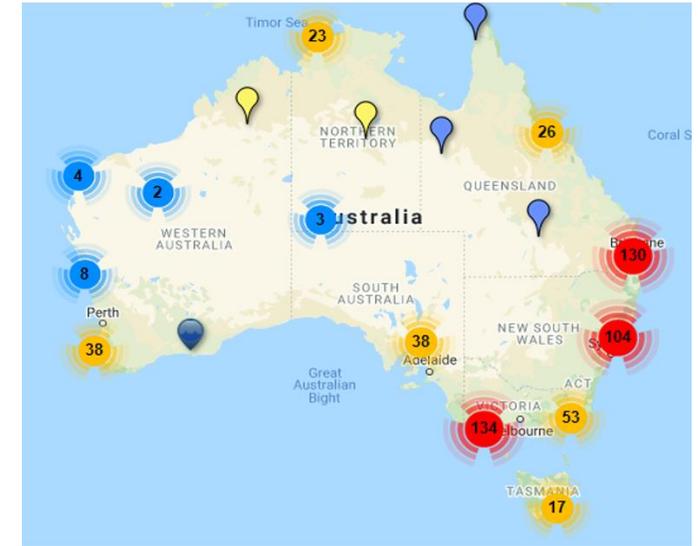


PFAS

PFAS: a growing environmental issue

- Per and Polyfluoroalkyl substances (PFAS) are a family of man made chemicals in use since 1950's many of which are now banned
- Primarily found in non-stick cookware, food packaging, fabric, furniture and firefighting foams
- Ability of PFAS to remain intact in the environment results in increasing levels of contamination
- PFAS contaminated soil presents major excavation and soil management challenges in large scale construction and infrastructure projects
- Sites of PFAS contaminated soil include airports, defense bases, mines, fire & rescue stations and other hazard facilities
- Regulation is now driving the requirement for treatment solutions

Over 580 sites around Australia have been identified to potentially contain PFAS.



SciDev solutions & technology can deliver solutions well below the detection levels in Australia

Location	ug/L
SciDev process detection limit	<0.0002
Reuse Soil	0.001
Drinking Water	0.07
Unlined landfill	0.07
Recreational Water	2.0
Fire Station (example)	600



THE PFAS SOLUTION

SciDev has the only commercialised, sustainable approach to tackle the global PFAS problem

SciDev has been awarded EPA licenses for the mobile treatment of PFAS

Our PFAS solutions are active on sites across Australia

PFAS Treatment

- Every PFAS project is different and requires a tailored approach. This drives efficiency.
- Historically, the detection & measuring of PFAS in the environment lacked detailed accuracy at low residual levels.
- Recent technology has seen detection sensitivity increase, driving greater regulations on PFAS concentration limits.
- SciDev Water designs and develops **robust PFAS** treatment strategies considering all variables and outcomes.
- **Removal rates** being achieved with our clients are currently **the most efficient** in the country reducing residual levels below existing detection limits.
- Significant ability for SciDev to deliver a **full treatment** solution to major infrastructure and construction projects on their **water** treatment and **PFAS** remediation requirements.
- SciDev Water has been successful in creating a profitable business in the growing market for treating PFAS with internally developed IP.



The treatment Sequence

SciDev's PFAS technology works better with water with low solid levels

SciDev's **Maxiflox Chemistry** separates the **solid matter** and provides a clean feed liquid to the process

SciDev's PFAS technology removes residual pollutants such as heavy metals or organic compounds from the liquid



PRE-TREATMENT

- Coagulation
- Flocculation
- pH adjustment
- Oxidation
- Pre treatment typically employs existing oxidation and sedimentation techniques with a flow sheet specifically designed for the particular application
- Important to get the pre-treatment stage right to maximise efficiency of downstream PFAS removal stages and minimise waste generation

TREATMENT

- Filtration
- Ion Exchange
- Adsorption
- PFAS removal stages are tailored to suit the application
- Differing PFAS molecular makeup call for the use of different AIX/adsorption medias to deliver the project outcomes
- Interplant sampling is very important to ensure efficacy can be monitored and theoretical/practical loading capacities and leakages can be compared

POST TREATMENT

- Discharge to environment
- Dust suppression
- Irrigation
- **Reuse of water:** Water from the process can be reused in areas such as irrigation and dust suppression reducing the environmental footprint of the process
- **Reduced cost:** Less waste volume reduces the disposal cost of the contaminant
- **Less Waste:** SciDev's technology produce 99% less liquid waste vs peer processes

Initial waste volume equates to **8 Olympic sized pools**



Competitors technology reduces waste to **9 B-double trucks**



SciDev technology reduces the volume into just **2 hot tubs** of waste





Case Study Mining Site

Most mines in Australia would have low volume, but highly concentrated PFAS hotspots



The Problem



Contamination of surface water



Stringent discharge limits



Existing within a drinking water catchment area

First and only treatment process to meet the stringent Western Australian EPA discharge limits

First and only plant in the country treating to this low level detection on a **continuous basis with no discharge exceedance**

- Onsite and lab analysis to determine optimal process flow and treatment strategies
- High relative concentration of the less regulated carboxylic acids which are typically harder to remove
- AIX part of the process tailored specifically for the efficient removal of this particular group of compounds
- Fully remote monitored and operated system
- Treated over 200ML of contaminated water



RESULTS

	PFOS	PFOA	Total PFAS
Raw Water – pre treatment	0.002 µg/L	0.002 µg/L	~0.570 µg/L
Post Treatment	<0.0002 µg/L	<0.0002 µg/L	<0.0002 µg/L



Case Study

Fiskville Fire Station

SciDev's PFAS treatment strategies are the most efficient in the country reducing residual levels below existing detection limits



The Problem



Firefighting site with high PFAS concentration in surface, ground and firefighting water



High contamination levels



Creek discharge near site with water being used in primary industries such as irrigation and stock watering

SciDev PFAS treatment produces 99% less waste versus peer processes

SciDev applied our robust PFAS treatment strategies and technical knowledge to address the high contamination on site

- Onsite and lab analysis to determine optimal process flow and treatment strategies
- Pre-treatment of contaminant material to minimise waste generation downstream and increase PFAS removal efficiency
- Specifically designed ion exchange and adsorption process flow for site requirements
- Unique process flow allowed waste categorisation into 3 defined streams:
 - Immobilised cake for cheap landfill
 - Less contaminated media
 - Highly loaded lead beds for incineration
- Separation of waste products **reduced liquid disposal costs by over 60%**



RESULTS

	PFOS	PFOA	Total PFAS
Raw Water – pre treatment	~280 µg/L	~95 µg/L	~600 µg/L
Post Treatment	<0.002 µg/L	<0.002 µg/L	<0.002 µg/L

Outlook

Outlook

SciDev delivers positive operational and environmental outcomes for our clients

DELIVERING FOR OUR CLIENTS



Reduced operating costs by >20%



Improved environment performance



Increased water return and water quality



Reduced liquid waste volumes



Delivering best in class technology application

DELIVERING FOR OUR SHAREHOLDERS



Focus on the health and safety of all our employees



Increasing sales and cash conversion in all regions and verticals



Progress commercial discussions post successful field validation



Increase operating margins through value chain integration



Strengthen our position as a leading provider in the environmental solutions market



The *Appendix*

THE INFO YOU
MIGHT NEED



SciDev Snapshot

Corporate overview

ASX code	SDV
Market cap (at \$0.94 per share)	\$149m
Shares on issue	159m
Cash at bank	\$7.0m ¹
Working Capital Facilities	\$6.8m ²

Major shareholders³

	% held
Nuoer Group	6%
Board and Management	8%
Institutional	25%
Retail	61%

Nuoer Group: Leading chemical company. SciDev has exclusive marketing rights in Oceania and support globally for key target end users and industries

¹⁾ As at 30 June 2021

²⁾ Drawn \$0.3m at 30 June 2021

³⁾ As at 21 April 2021

SCIDEV BOARD



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NON-EXECUTIVE
CHAIR



Lewis Utting
CHIEF EXECUTIVE
OFFICER & MANAGING
DIRECTOR



Simone Watt
NON-EXECUTIVE
DIRECTOR



Jon Gourlay
NON-EXECUTIVE
DIRECTOR



Heath Roberts
COMPANY
SECRETARY



Dan O'Toole
NON-EXECUTIVE
DIRECTOR

EXECUTIVE MANAGEMENT TEAM



Geoff Stephenson
Interim CFO



Craig McCloskey
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NORTH
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Jamiel Muhor
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DEVELOPMENT



Jeffrey Zhiang
MARKETING &
STRATEGY DIRECTOR



Ben Gill
TECHNICAL
DIRECTOR



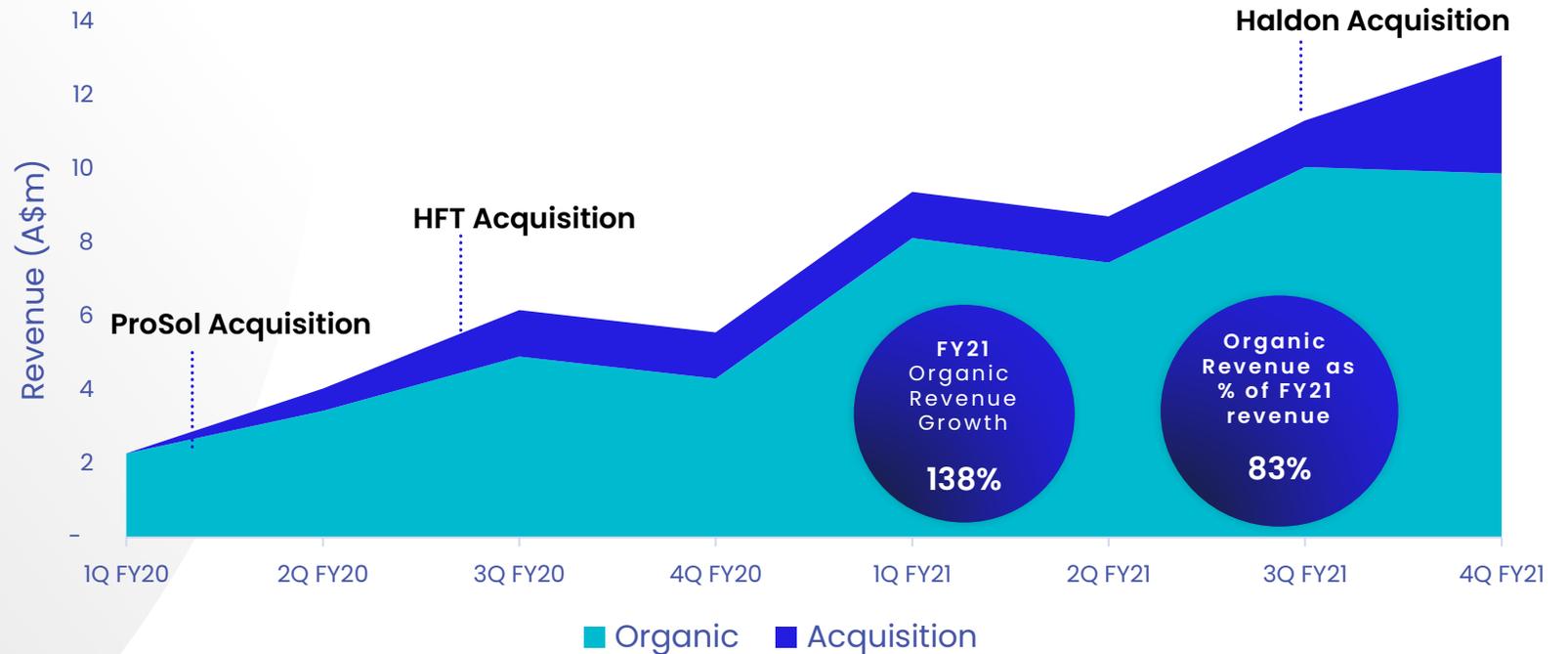
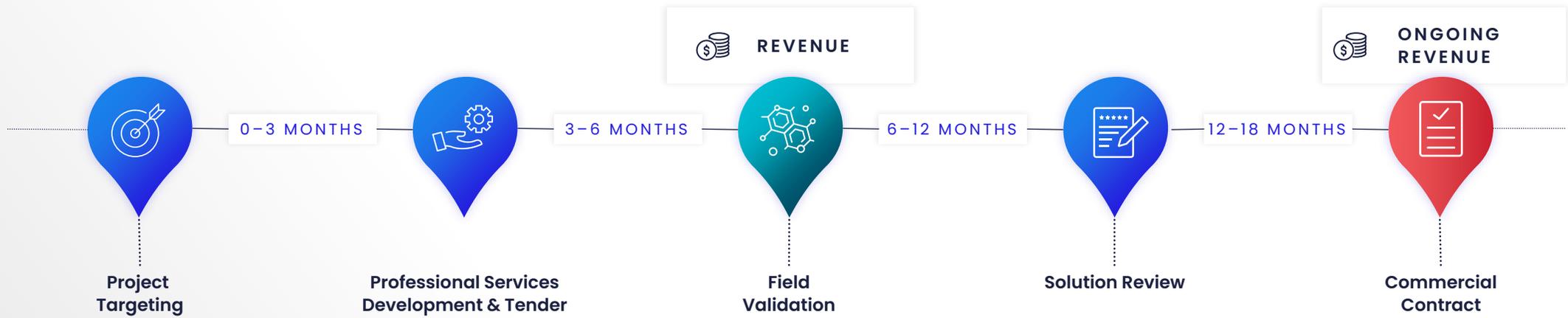
Sean Halpin
COMMERCIAL
DIRECTOR



Jake Reardon
TECHNICAL
DIRECTOR



How We *Win* Business





Record Profit

A\$000	FY21 ¹	FY20	% CHANGE
Revenue	42,525	18,061	↑ 135%
Other Income	1,712	588	↑ 191%
Raw Materials, Consumables, Change in Inventory	-32,366	-14,955	↑ 116%
Employee expenses	-6,254	-2,845	↑ 120%
Other Expenses	-4,811	-3,125	↑ 54%
Profit (loss) after Tax	3,453	-875	↑ 495%
Cash and cash equivalents	7,010	4,481	↑ 56%



Disclaimer

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