



INVESTOR PRESENTATION

SEPTEMBER 2019

Next-generation technology for solids-liquid separation in mining, water and wastewater

SciDev is a leader in the development and application of both chemistry and process control for solids-liquid separation.

SciDev brings together world-class technology, chemistry, management and manufacturing capabilities to solve pressing operational and environmental issues for the minerals processing, tailings, water treatment and Oil & Gas markets



CORPORATE SNAPSHOT

CORPORATE OVERVIEW

ASX code	SDV
Market cap (at \$0.31 per share)	\$33m
Shares on issue	107m
Options on issue (exercisable at \$0.25 – exp. 11/19)	3.95m
(exercisable at \$0.12 – exp. 07/22)	3.35m
(exercisable at \$0.10 – exp. 07/22)	2.00m
Cash in bank	\$1.8m
Working capital facility	\$0.5m



SciDev offers a unique exposure to the ASX *chemical technology sector* by providing *clean and sustainable* solid-liquid separation technology

MAJOR SHAREHOLDERS

% held

Nuoer Group	8%
Sinoz Group	6%
Board and Management	7%
Institutional	4%
Retail	75%

BOARD MANAGEMENT

Chairman	Trevor Jones
Managing Director	Lewis Utting
Non-Executive Director	Simone Watt
Non-Executive Director	Jon Gourlay
Company Secretary	Heath Roberts

STRATEGIC INVESTORS



Leading Chinese chemical company. SDV have exclusive marketing rights in Oceania and globally for key target end users and industries



Globally significant manufacturer & supplier of mining reagents. Offers a highly complimentary portfolio to SDV and ability to leverage customer relationships

SOLIDS-LIQUIDS SEPARATION



Many chemical processes require the separation of solids out of their liquid state.

Solid liquid separation can occur via many methods such as;

- Filtration
- Precipitation
- Centrifuging
- Chemical additives such as flocculants and coagulants

SciDev technology focusses on the addition of flocculants and coagulants into liquids to drive the solid separation



SciDev focuses on *solids-liquid separation* which is an important component of chemical engineering & manufacturing

	Coagulation	Flocculation
WHAT	Promotes the aggregation of particles $1/50^{\text{th}}$ the size of a human hair by enhancing the attractive forces between them.	Brings together small often coagulated particles, $1/5^{\text{th}}$ the size of a human hair using polymers which bridge between particles and bind them together.
WHERE	Coagulation is used in mineral processing, oil & gas, papermaking, water treatment, and several industries	Flocculation is critical in waste water, sewage, mineral processing, oil & gas, papermaking, water treatment, and several other industries
WHY	Coagulation is critical for the control of fine particles or pollutants. In waste water and drinking water, coagulation allows the fine solids to be removed to make the water fit for consumption or discharge	Flocculation allows for better environmental outcomes through increased water recovery and is also used in mineral processing, papermaking and oil & gas for production

SCIDEV: TECHNOLOGY



SciDev's PROPRIETARY SYSTEMS deliver sustainable coagulant and flocculant dosage optimisation.

The result is the reduction of associated costs and the elimination of poor performance

SciDev generates revenue from chemical sales and our operating systems.

Our technology can be utilised in a range of industries including mineral processing, tailings, water treatment, dairy and oil & gas sectors

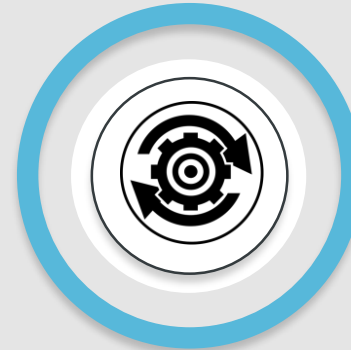


SciDev provides world-class coordinated technology and chemical solutions for *solids-liquid separation*.



Professional Services

Our workforce of highly skilled engineers and chemists engage with our customers to build bespoke solutions to their solid-liquid processing requirements.



Process Control



OptiFlox® is a patent pending technology that continuously analyses & measures key parameters in industrial process streams. The technology supports our key chemistries of MaxiFlox® and DairyFlox®



Chemistry



Our range of proprietary chemicals & polymers deliver highly effective solutions to a range of industries

PROFESSIONAL SERVICES

SciDev's team of highly skilled engineers engage with our customer to understand their requirements & specific chemical challenges to deliver bespoke solutions

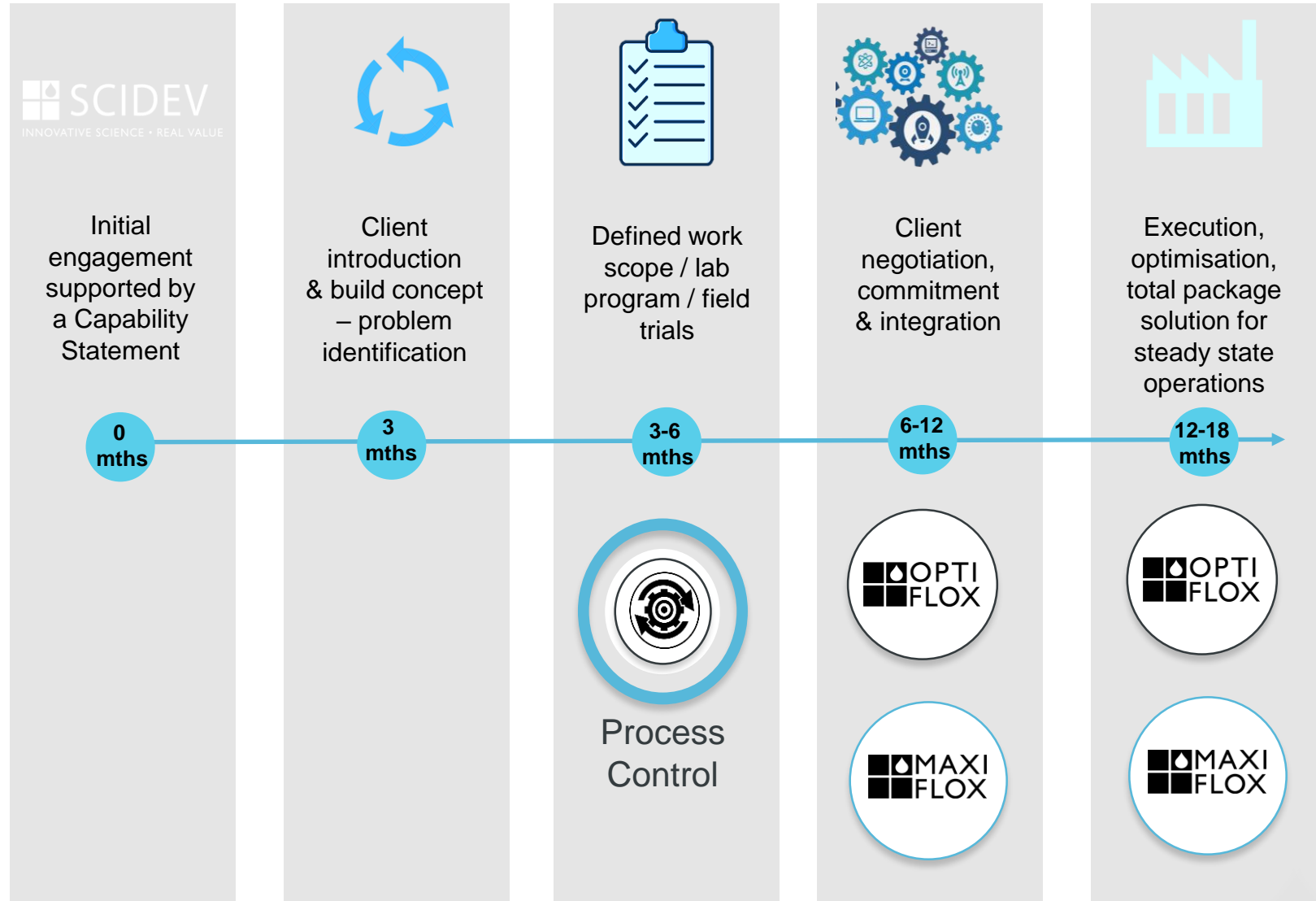
SDV identify the root causes of our client's problems and develop the most cost-effective solution.

Our Optiflox® technology analyses and measures the key parameters in the industrial process

Following the identification phase SDV continually support our clients through the use of our proprietary range of flocculants and coagulants to improve the efficiency of the process technology



SciDev engage with our customers to deliver bespoke solutions to their solid-liquid separation requirements.



PROCESS CONTROL OPTIFLOX®

Optiflox® is a patent pending technology that continuously analyses & measures key parameters in industrial process streams.

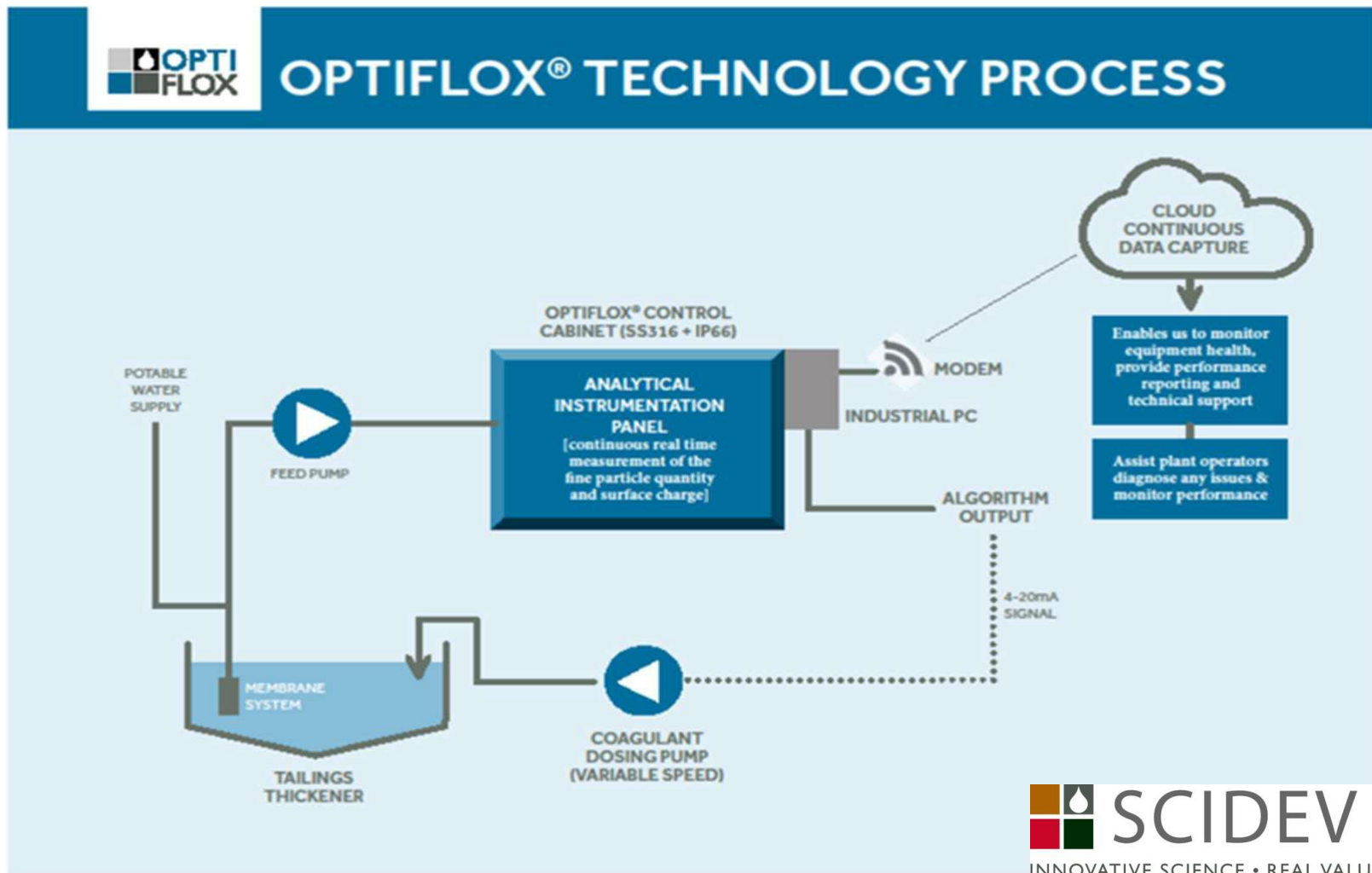
OptiFlox® accurately & continuously measures the vital characteristics that dictate process performance (particle surface charge, pH, conductivity, turbidity and solids settling rate).

OptiFlox® analysis determines what chemicals need to be added to the process to optimise efficiency, maximising output and minimising costs for our customers

The technology can be applied to a range of industries that engage in solid liquid separation including mining, mineral processing, wastewater treatment and oil & gas



Optiflox® is a patent pending technology that continuously analyses and measures key parameters in the industrial process stream.



SCIDEV CHEMICAL SOLUTIONS

SciDev has designed a range of proprietary polymers to meet any solid-liquid separation challenge

Whilst the company can develop bespoke solutions for any challenge, our primary product range is;

- MaxiFlox®
- DairyFlox®

Our chemicals are inert and provide a clean and sustainable solution



SciDev and our partners have developed bespoke flocculants and coagulants that work across a range of industries.



MaxiFlox® is specifically designed for use in solid liquid separation processes. The technology can be utilised across a range of industries including mining & minerals processing, water & wastewater, oil & gas, food & beverage and paper manufacturing



DairyFlox® is our range of polymers specifically developed for the dairy sector. They were developed through an eight-year R&D program to provide a lower cost, safer and greener method for treating dairy wastewater. The products are used in the treatment of wastewater streams produced in dairy manufacture processes.

THE STRATEGIC OPPORTUNITY

The global opportunity for SciDev's products is significant

The chemical industry has experienced a period of consolidation which has created large industry competitors that are focussed on centralised manufacturing with reduced service levels

Our world-class technical staff and our bespoke solutions will allow SciDev to increase penetration into the market



SciDev technologies can be applied as a solution to a range of solid-liquid problems across multiple industries on a global basis.

GLOBAL MARKETS

Mineral processing **\$2bn**

Municipal water treatment **\$5bn**

Industrial water treatment **\$1bn**

INDUSTRY DRIVERS



CLEAN WATER REQUIREMENTS



METAL DEMAND



ENVIRONMENTAL REGULATIONS



SUSTAINABILITY

COMPETITOR INSIGHTS

Large industry competitors have consolidated and are now focused on centralised manufacturing with reduced service levels.

 +  **\$127B USD**

 +  **\$58B EUR**

 +  **\$43B USD**

 **SOLVAY** +  **CYTEC** **\$9B EUR**



CASE STUDY

CASE STUDY



SciDev measured, analysed and modelled Wilpinjong's unique environment and resulting requirements

Peabody Energy committed to a **six-month trial** program, which provided clear and actionable insights resulting in a permanent solution that yielded measurable and sustainable results



RESULTS



Constant data capture and analytics tracking chemical and particle changes

↑ 240 hrs



Real time measurement alleviating lag time in corrective processes providing an additional 240 hrs of productivity

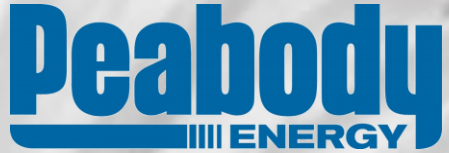


Optimisation of polymer usage and increased consumable recovery driving down operational costs by **\$500k**



Increase in productivity, reduction in environmental footprint and increased water re-use

CASE STUDY



OptiFlox® is now the permanent chemical and process control solids-liquid separation solution for the **world's largest** non-government coal company, Peabody Energy.

PEABODY ENERGY FACED UNSUSTAINABLE DOWNTIME ON THE WILPINJONG COAL MINE TAILINGS THICKENER



CHALLENGES

- × Inconsistent plant feed quality
- × Escalating chemical cost
- × No real-time monitoring
- × No reporting technology



The fundamental operational challenge facing Peabody Energy was poor chemical dosing in response to constantly changing feed types.

Resulting in plant stoppages, reduced productivity and increased downtime.

Peabody quickly recognised the unique opportunity offered by SciDev's technical innovation, supported by our team of field-experienced technicians.



RECENT ACHIEVEMENTS

Strong financial position following placement and rights issue Q1 2019



Contract win



Commercial trial



Management changes



Strategic alliance



SciDev has delivered several significant milestones in the past 12 months.



2018

Commencement of commercial trial of OptiFlox® at coking coal site in the Bowen Basin



2018

Secured strategic partnership with Sinoz Group of companies – a globally significant manufacturer of mining reagents



Jan 19

Commercial trial of OptiFlox® with Peabody in the USA thermal coal industry



Feb 19

Strategic alliance with Nuocer Group of China – the worlds 2nd largest producer of water based polymer products



Apr 19

Lewis Utting announced as new CEO and Managing Director



July 19

Awarded an AUD\$1.08m contract to provide friction reducers in to the US shale industry. **First contract in the Oil & Gas sector**



Aug 19

Awarded a 3 year contract with **Iluka Resources** for delivery of MaxiFlox® chemistry to the Jacinth–Ambrosia mine. AUD\$8-12m contract over term

FINANCIAL POSITION

SciDev is in a strong financial position to continue to advance opportunities in our growth pipeline

Our aim is to maintain a positive balance sheet to provide flexibility for growth

Recent announcement of a contract wins with Iluka Resources (A\$8-14m over 3 years) and into the US oil & gas industry A\$1m provide ongoing revenue streams



SciDev has a robust balance sheet, growing revenues and an ongoing focus on cost control.

**FY19
Sales
Revenue**
A\$2.92m

**Net Cash
at end FY19**
A\$1.76m

**Net Assets
at end FY19**
A\$4.7m

**YoY
Revenue
Up**
32%

**4Q FY19
cash from
Operations**
-A\$0.2m

**4Q FY19
Revenue**
A\$1m

SCIDEV: PEOPLE



SciDev's products are backed up with expert support from our technical personnel, with a combined experience of several decades in the field. We can determine the best chemistry for a particular application and assist customers in optimising dosing and performance on site.



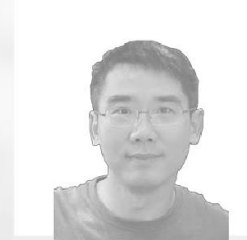
LEWIS UTTING

CEO & MANAGING DIRECTOR



JAMIEL MUHOR

BUSINESS DEVELOPMENT



JEFFREY ZHIANG

MARKETING & STRATEGY
DIRECTOR



SAM JIANG

FINANCIAL CONTROLLER



BRAD BORHAM

INDUSTRY MANAGER



SIMON PRIGMORE

TECHNICAL ACCOUNT
MANAGER



REECE SLINGSBY

TECHNICAL ACCOUNT
MANAGER

THE OUTLOOK



SciDev has a strong growth pipeline and is well positioned to deliver sustainable growth in solid-liquid separation

Drive our revenue line through the execution of a well structured business development pipeline in the Oil & Gas and mineral processing sectors

Build upon the Company's momentum in the Australian coal industry, transitioning across application, mineral types and key industry players with our OptiFlox® technology

Further develop the opportunities presented through SciDev (US) LLC into the US oil & gas sector

Extend our technology into the precious metal and base metal sectors throughout Australia and Asia, while looking for other opportunities in currently unrealised sections of the mineral processing value chain

Renew our effort in the Australian water and wastewater sector with strategic partnerships and licensing opportunities with global operators and key end users

Deliver upon our recent agreement with Iluka in the mineral sands sector delivering value and further developing this relationship

Continue to strengthen and leverage our relationship with Nuocer through joint marketing and R&D efforts in key market areas

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SCIDEV

INNOVATIVE SCIENCE • REAL VALUE

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