

Rakon Limited 2021 annual meeting of shareholders

Enabling the connected future

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12 August 2021

Agenda & Welcome

Welcome & introduction

Items of business

Chair's address

Chief executive's review

Shareholders' questions

Annual report and business update

Ordinary resolutions

- □ Re-elect Bruce Irvine as a director of Rakon
- Approve increase in the total annual pool for directors' fees
- Authorise directors to fix remuneration of Rakon's auditor

General business

Meeting close / afternoon tea



Bruce Irvine Chair Brent Robinson Chief executive

Chair's address Bruce Irvine



Chair's address Financial snapshot





Financial year

Notes:

¹All figures are presented in New Zealand dollars unless otherwise indicated

² Refer to Note 5 of the FY2021 audited financial statements for an explanation of how 'Non-GAAP Financial Information' is used, including a definition of 'Underlying EBITDA' and reconciliation to NPAT ³ FY2022 is a provisional estimate

Shareholder value Significant increase in share price

Health and safety of people was paramount through Covid-19 outbreaks and lockdowns

Global operations sustained through restrictions

Significant impact from Covid to operations in first quarter but new opportunities captured in Q2 and H2

- Increased demand from Telecommunications sector
- Worldwide TCXO shortage

Scaled up capacity to meet increased demand

- Significant long term orders secured
- □ NZ production capability now 40% greater than FY2021



Our growth strategy **How we will succeed**

Markets

- Three principal market segments Telecommunications, Positioning, Space & Defence
- New segments emerging with cloud computing, autonomous vehicles and NewSpace

Customers

- Preferred supplier to Tier 1 & 2 customers
- Work alongside customers for design of next-generation technologies

Expertise

- □ Industry-leading R&D
- Proven commercialisation

Operations

- Global, scalable operation
- Extend existing products whilst developing new solutions
- □ Future proofing low-cost manufacturing platform



Governance Strong leadership

Health and safety of global team has been paramount

Covid outbreaks and restrictions impacted all operations

Risk management and Board oversight

Managing ongoing supply chain and Covid-19 uncertainties

Enhanced investor communications and engagement

Refreshed website and lifted company profile

Secured long term debt facility

 Enabling investment in future proofing operations and expansion opportunities

Prudent financial management

Consolidate performance through FY2022 and maintain conservative balance sheet

Succession planning for Board

Refreshed skills and smooth transition

Appreciation of committed resilient global team



Chief executive's review **Brent Robinson**



Our key executives here today

Dr. Sinan Altug Chief Operating Officer



Darren Robinson Chief Marketing Officer



Scott Stemper Global Quality Manager





Maureen Shaddick

Company Secretary

Anand Rambhai Chief Financial Officer



ubai reopie & capab

Borja Thomas Schuhmacher Head of Global Product Management



Margo Thomas General Manager, Global People & Capability



FY2021 highlights & achievements



Strong financial performance

We delivered continued growth in revenue and earnings through sustained demand and solid operating improvements



Opportunities captured

We rapidly deployed new product designs and increased capacity to meet the rise in demand because of worldwide chip shortages



XMEMS[®] wins

A year on from officially launching this proprietary technology, we're designed into strategic customers' applications



Effective Covid response

The commitment and resilience of our global team ensured we continued operating with minimal downtime and supply chain disruption

FY2021 financial performance **Strong earnings and cash flow**

Performance for the 12 months to March (\$m)	FY2021	FY2020	% change
Revenue	128.3	119.0	+8%
Gross profit	58.9	52.0	+13%
Gross margin %	45.9%	43.7%	+2.2 percentage points
Operating expenses	49.0	48.1	+2%
Net profit after tax	9.6	4.0	+142%
Underlying EBITDA ¹	23.5	14.8	+59%
Earnings (cents per share)	4.2	1.8	+133%
Net cash / (net debt) ² as at 31 March	5.0	(7.9)	+164%
Capital expenditure for the 12 months	5.1	4.6	+10%







Notes

¹ Refer to Note 5 of the FY2021 audited consolidated financial statements for an explanation of how 'Non-GAAP Financial Information' is used, including a definition of 'Underlying EBITDA' and reconciliation to net profit after tax ² Excluding NZ IFRS 16

³ FY2022 is a provisional estimate





Telecommunications Increased 5G demand driving revenue growth



Revenue growth

FY2021 \$77M, up 18% Telecommunications comprises 60% of total revenue



5G demand increasing

Operators deploying new networks and enhancing existing infrastructure Strong contribution from new products (Mercury ™)



Cloud computing emerging

Precise timing requirements for many applications driving strong growth Major cloud computing customer secured



Product wins

Design-in wins for new products enabling 5G millimetre wave capability

Increased design wins for Pluto[®] TCXOs

Why 5G?

5G is expanding the mobile ecosystem to new industries



Precision agriculture



Construction and mining



Digitised education



Connected healthcare



Richer mobile experiences



Smart manufacturing



Intelligent retail



Smart city

Source: Courtesy of Qualcomm

Product applications in 4G networks





Intensified product applications in 5G networks

Rakon well positioned to grow Leading edge 5G technology to enable future requirements

Long-term partnerships with all leading suppliers of telecommunications infrastructure equipment

Leading-edge technology

- Mercury products have a market advantage
- Several years ahead of competitors
- Key patents giving long-term protection

Growth in all nodes of the network

Global footprint close to customers & low cost manufacturing facility

Radio Unit demand forecast



Source: Compiled from industry sources 1 CAGR: Compound annual growth rate

Space & Defence Momentum building in NewSpace



Revenue growth

FY2021 \$30M, up 7% Space & Defence comprises 24% of total revenue



Mars Rover

Rakon designed / manufactured products on board NASA's Mars Perseverance Rover which landed on Mars in February 2021



NewSpace satellite customer

Initial deliveries made for a major NewSpace LEO satellite constellation



Steady Defence performance

Defence segment is a key source of innovation

Growth consolidated from previous year

The NewSpace opportunity Major 10-year satellite launch programme

Satellite constellation	Number of satellites					
	Planned to launch	Approved to launch				
STARLINK	12,000	42,000				
	1,000	2,000				
amazon PROJECT KUIPER	3,000	10,000				
BOEING	1,400	3,000				

Source: Based on yearly industry projections



Rakon NewSpace strategy 3–5 year growth plan



Rakon Serviceable Available Market





Positioning

Mixed FY2021 performance but strong FY2022 outlook



Revenue down but better margin %

FY2021 \$14M, down \$4.9M Better gross margin percentage with improved product mix

Positioning comprises 11% of total revenue



Agriculture and mining growth

Growth in higher-margin precision industrial applications including growing share of agricultural / mining segments as automation becomes standard



Autonomous vehicle market momentum building

Autonomous vehicle industry driving need for higher performance and higher reliability products



New orders captured

Significant orders captured due to global TCXO shortages – delivering in FY2022 and FY2023

Rakon growth strategy Autonomous agricultural and construction machinery



Autonomous tractor units forecast

Source: MarketsandMarkets report



Autonomous vehicles

The changing requirements for automotive positioning technology

Navigation	Drive Assist & Driver Safety	Autonomy
Accuracy: Consumer grade	Accuracy: High precision	Accuracy: Survey, construction grade
YESTERDAY	TODAY	
Technology Enablers:GPS + mapping	 Relative Positioning w/ Sensors, cameras, LIDAR Radar, advanced mapping 	 Technology Enablers: Absolute positioning Advanced vision Edge computing + AI + V2V

Autonomous vehicles

Growing demand for high precision and high reliability

Crystal products potential by automotive application





In-vehicle global synchronisation

Source: Industry estimates

¹ Advanced driver assistance systems

Managing supply chain risks

Industry supply chain challenges due to critical component shortages

Stretched lead times, lower allocations, expedite fees, price increases

Focus on minimising customer disruption through:

- Continuous supplier engagement and escalation
- Diversifying supply base through alternative sources
- Extending blanket orders to critical suppliers
- Ordering extra raw material inventory and buffer stock
- □ Forecasting for the longer-term



Q1 update



Strong start to FY2022

Telecommunications continued at higher run rate from previous quarter

Commencement of deliveries for increased TCXO business



Cost pressures growing

General cost inflation becoming evident, particularly in New Zealand



India Delta impacts

India production lower in April but now at normal levels Minimal impact on Q1 revenue



New India plant project

Modern fit-for-purpose facility enabling future expansion

Low-cost advantage will enable extension of product lifecycle

Supports dual supply chain strategy

Two-acre site in Aerospace business zone

In summary

Strong FY2021 result

- NPAT up 142% on prior year to \$9.6M
- Underlying EBITDA up 59% to \$23.5M

FY2022 result on track

- Customer delivery focus
- Risks being closely monitored and managed

One-off gains from worldwide chip shortage

 Delivery mainly in FY2022 and part FY2023. Positive signs of some market share retention

Strong order book ahead

Medium-term growth focus

- 5G networks, data centres and autonomous machines
- 5G / Al applications, autonomous vehicles and LEO satellites (3 – 5 years)

R&D / new product commercialisation

- Product leadership
- □ IP protection & know-how
- Customer partnerships
- ASICs & XMEMS[®]

Solid financial management

 Conservative balance sheet to manage risks & capture opportunities



Shareholders' questions



Resolutions



Ordinary resolution

Resolution 1: re-election of director

 That Bruce Robertson Irvine, who retires by rotation and is eligible for re-election, be elected as a director of Rakon



	Proxy votes lodged	For	%	Against	%	Discretionary	%
Bruce Irvine	89,747,796	83,295,783	92.81	1,923,121	2.14	4,528,892	5.05

Ordinary resolution

Resolution 2: annual directors' fee increase

 That the total annual pool for directors' fees be increased by \$100,000 from \$360,000 to \$460,000 with effect from 1 October 2021

	Proxy votes lodged	For	%	Against	%	Discretionary	%
Directors' Fees:	60,810,193	52,431,466	86.22	4,228,863	6.95	3,907,490	6.42

Ordinary resolution



Resolution 3: fixing remuneration of auditor

 That the directors are authorised to fix the remuneration of Rakon auditor, PricewaterhouseCoopers, for the following year

	Proxy votes lodged	For	%	Against	%	Discretionary	%
Auditor Fees:	89,747,796	84,266,019	94.05	877,959	0.98	4,454,222	4.97

General business and shareholders' questions





Disclaimer

This presentation contains not only a review of operations, but also some forward looking statements about Rakon Limited and the environment in which the company operates. Because these statements are forward looking, Rakon Limited's actual results could differ materially

Although management and directors may indicate and believe that the assumptions underlying the forward looking statements are reasonable, any of the assumptions could prove inaccurate or incorrect and, therefore, there can be no assurance that the results contemplated in the forward looking statements will be realised

Media releases, management commentary and investor presentations are all available on the company's website and contain additional information about matters which could cause Rakon Limited's performance to differ from any forward looking statements in this presentation. Please read this presentation in the wider context of material previously published by Rakon Limited

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Glossary

ASIC: Application Specific Integrated Circuit

Cloud computing: Allows users to have on-demand availability of a remote computer system's resources for improved computing power or data storage (usually located quite far from the user, such as in another country)

Crystal Oscillator (XO): A quartz crystal combined with oscillation circuitry to generate a repeating electric signal

Crystal Resonator (Xtal): At the heart of XOs, VCXOs, TCXOs and OCXOs are quartz crystals, which are designed to resonate with electrical stimulation using the piezoelectric effect

Data centres: Usually a building that is used to hold a computer system and other components to backup data

Design-in: An opportunity that allows Rakon's product to be used as the reference component for certain customer reference designs (a technical blueprint of a system intended to be used by customers)

Edge computing: Allows users to have on-demand availability of a remote computer system's resources for improved computing power or data storage (usually located close to the user, such as within the same city)

5G: 5th generation of the telecommunications standard, providing 10 to 1000 times better performance in many different applications

5G millimetre wave (mmWave) technology: The equipment that enables higher frequency data transmission in 5G

Mercury[™] / Mercury+[™]: Rakon's proprietary integrated circuit used in OCXOs to achieve clock variations to less than 1 billionth of a second, enabling precision timing in 5G applications

NewSpace/NewSpace LEOs: Refers to the commercial space sector for mainly low earth orbit (LEO) satellites

O-RAN: Mobile networks that are more intelligent, open, virtualised and fully interoperable

Oscillator: A circuit or device that generates a fixed frequency signal and consists of a resonator and electronic components

Oven Controlled Crystal Oscillator (OCXO): A crystal oscillator that uses a miniaturised oven to keep its internal temperature constant

Pluto®: Rakon's proprietary integrated circuit used in TCXOs to achieve clock variations to less than 100 millionth of a second, enabling higher data rates in 5G applications

Surface Acoustic Wave (SAW) resonator: At the heart of SAW oscillators are SAW resonators that use the piezoelectric effect to generate electrically stimulated acoustic waves at a resonant frequency

System solutions: Refers to Rakon's solutions that include high performance products, equipment and consulting services for Space & Defence

Temperature Compensated Crystal Oscillator (TCXO): A crystal oscillator with additional circuitry to remove frequency variations due to temperature change

Tier-1 customers: recognised key players within their respective industries, that make up a significant market share

Voltage Controlled Crystal Oscillator (VCXO): A crystal oscillator with an adjustable output frequency

Voltage Controlled SAW Oscillator (VCSO): A SAW oscillator with an adjustable output frequency

XMEMS[®]: Crystal Micro-Electro-Mechanical System. Rakon's advanced quartz-based resonator technology. It is made with Rakon's NanoQuartz[™] microfabrication process, delivering unprecedented resonator and oscillator performances

