

# A Global Technology Leader

**rakon**

Enabling the  
Connected Future

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# Who We Are



- ◀ A global high technology company and a world leader in our field. We design and manufacture advanced frequency control and timing solutions



# What Our Products Do

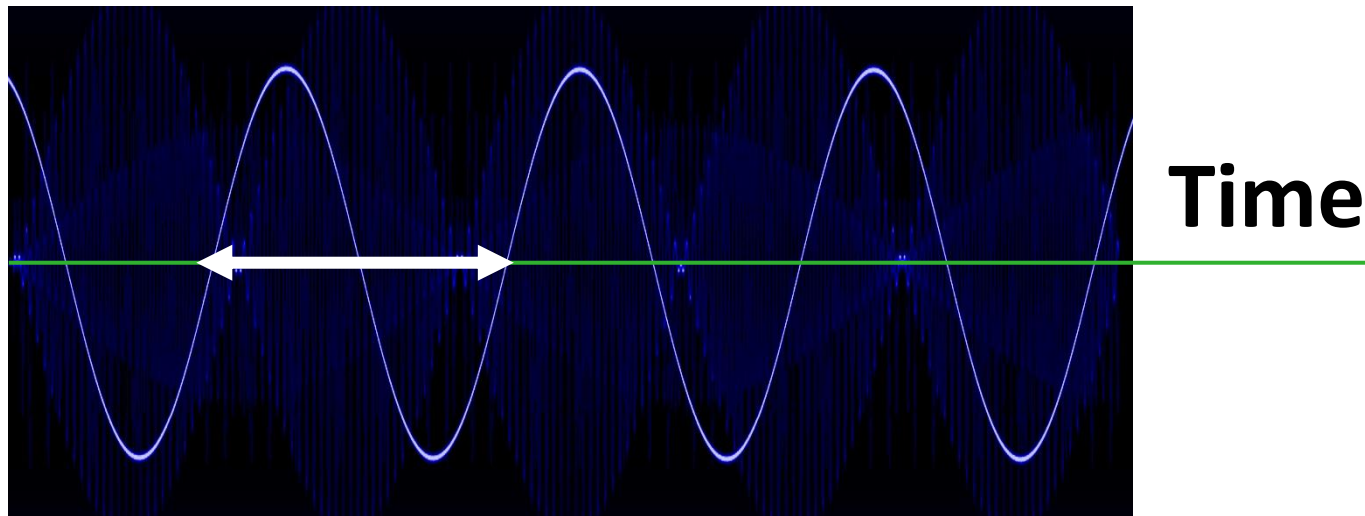
- ◀ Our products generate the frequency reference needed for all communications to transmit and receive on, over wired, optical or wireless radio waves
- ◀ Our devices also effectively expand / optimise time, slicing it to nano-second precision, allowing an ever increasing bandwidth for communications and providing stable references for many electronic applications around the globe

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# Why Our Products are Needed

- ◀ All modern communication and location systems need accurate **time** and stable **frequency** to work
- ◀ This reference frequency is what our products generate
  - ❑ Quartz crystals have a natural piezo-electric property when cut correctly and put in the correct electrical circuitry (oscillator), can generate extremely accurate radio frequencies that are used to generate radio waves and derive accurate time



The arrow shows one wave repeat

1000 of these waves repeating in 1 second = 1KHz

# Our Story

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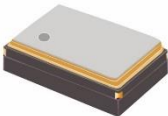
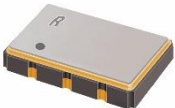
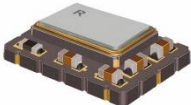



We are the preferred supplier to the top Tier players in each of our core markets of Telecommunications, Global Positioning and Space & Defence



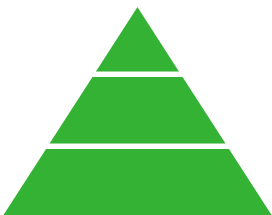
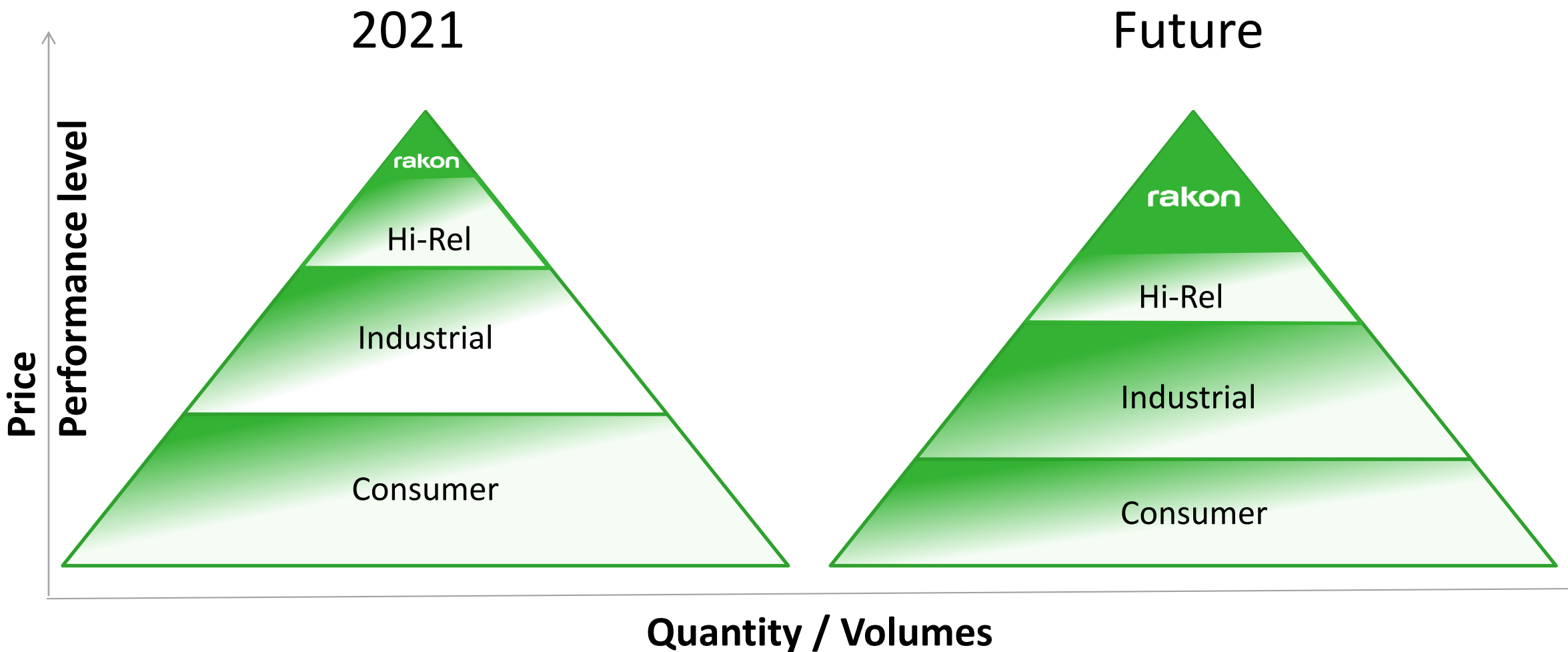
# Our Frequency Control Products (FCPs)



Rakon is focused on seven key product groups

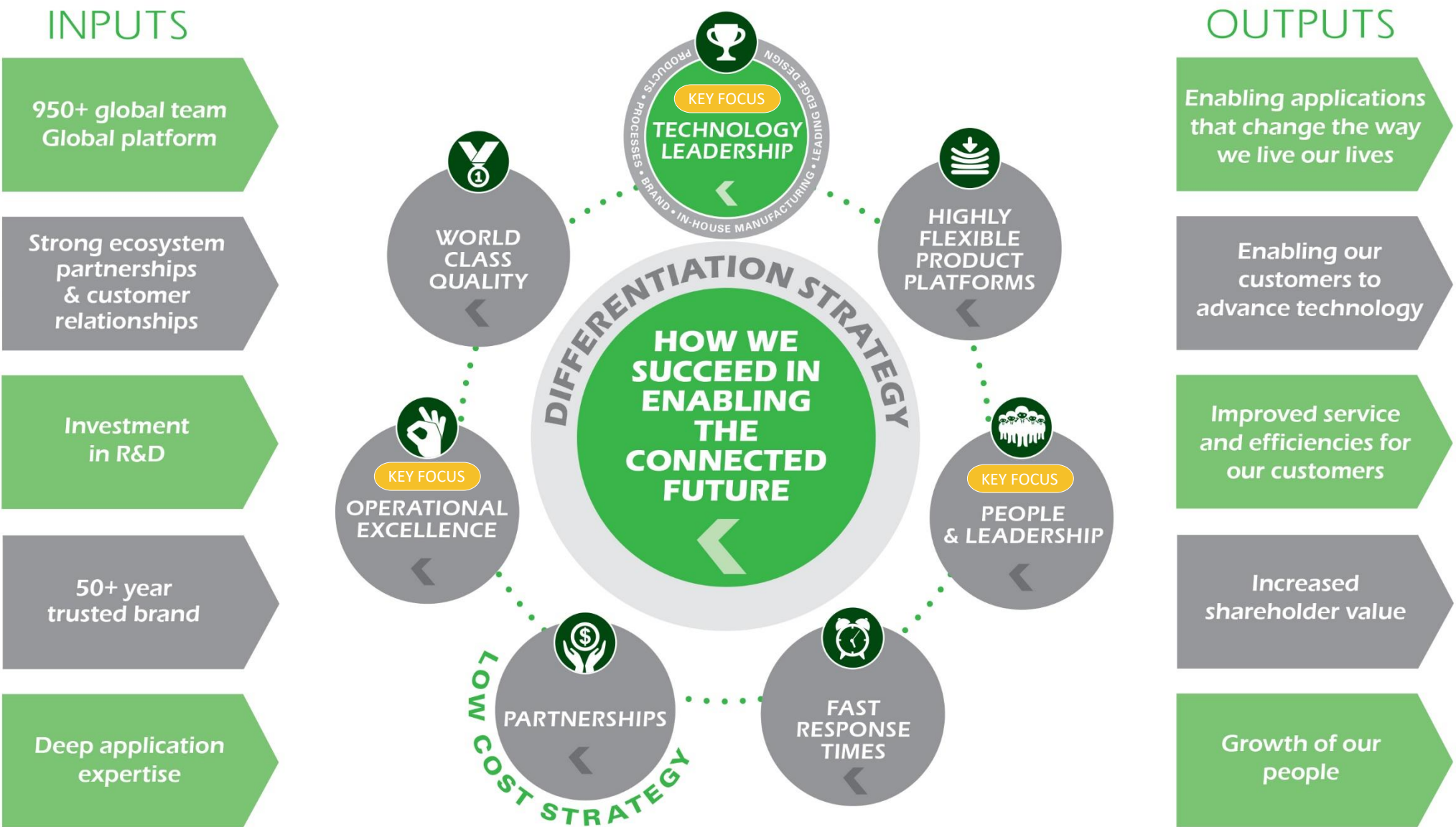
Crystals	XO	VCXO/VCSO	TCXO	ASIC based OCXO	Discrete OCXO	System solutions
						
Passive single frequency resonator used in mass market positioning and telecommunications devices	Active crystal oscillator used in network applications (e.g. optical networks and data centres)	Active crystal oscillator that uses voltage control to bring oscillator back to frequency	Temperature compensated crystal oscillator to achieve better frequency stability	Miniature ovenised crystal oscillator using full integrated ASIC	Ovenised crystal oscillator to achieve best frequency stability	Ideal retrofit solutions for upgrading radar, electronic defence and other systems

# Global Frequency Control Product Market



= Total NZ\$4 Billion Frequency and Timing Opportunity

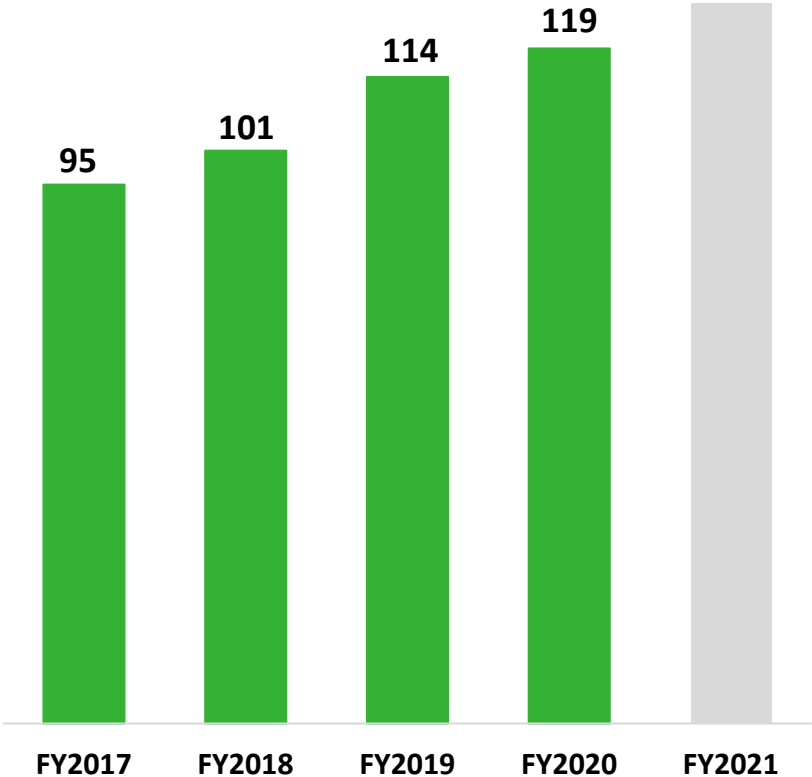
# Business and Strategic Focus



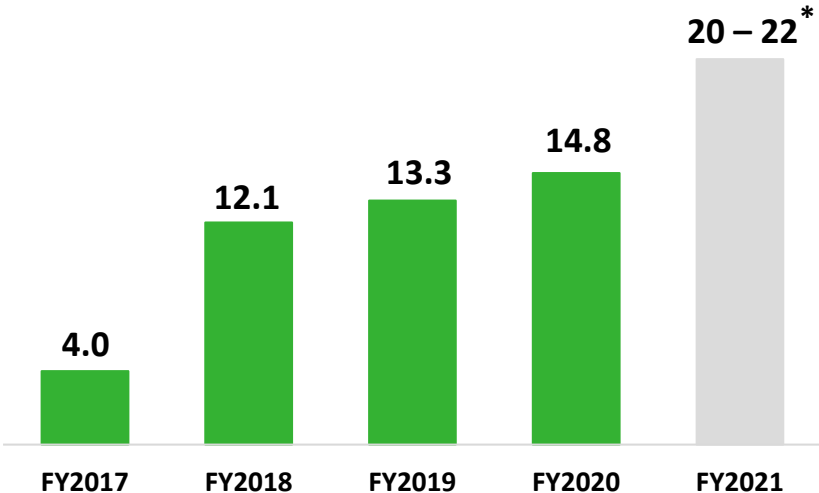
# Sustained Earnings and Growth



Revenue (\$m)<sup>1</sup>



Reported Underlying EBITDA<sup>2</sup> (\$m)



\* FY2021 is Earnings Guidance provided as at 18 January 2021

Notes:  
<sup>1</sup>All figures are presented in New Zealand dollars unless otherwise indicated.  
<sup>2</sup> Refer to note 4 of the FY2020 audited financial statements for an explanation of how 'Non-GAAP Financial Information' is used, including a definition of 'Underlying EBITDA' and reconciliation to NPAT.

# Q+A / Find Out More



## Next Steps

- Find more information at:  
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