

Enabling Next Generation Health and Wellness Monitoring

The Power of Silicon Photonics to Deliver Health Insights



Safe Harbor Statement



Forward-Looking Statements

This Investor Presentation may contain forward-looking statements that involve risks and uncertainties, which include all statements other than statements of historical facts, including, without limitation, any statements preceded by, followed by or that include the words "targets", "believes", "expects", "aims", "intends", "will", "may", "anticipates", "would", "could" or similar expressions or the negative thereof. Actual future performance, outcomes and results may differ materially from those expressed in forward-looking statements as a result of a number of risks, uncertainties and assumptions. Forward-looking statements in this Investor Presentation may include, but are not limited to, statements about: (a) the potential of Rockley Photonics Holdings Limited ("Rockley" or the "Company") solutions to improve individuals' health and well-being and enable the transition from reactive to proactive healthcare; (b) the timing of the Company's product development and the commercial launch of the Company's products; (c) the size and growth potential of Rockley's target markets; (d) the anticipated and potential features, scope, goals, and benefits of the Company's platform, products, technology, and partnerships with third parties; (e) the Company's continued development of a range of photonic integrated circuits and associated modules, sensors, and fullstack solutions; (f) Rockley's belief that photonics will eventually become as pervasive as microelectronics; (g) Rockley's potential to support hyper-scale manufacturing, address a multitude of highvolume markets, and deliver the complex optical systems required to bring transformational products to market; (h) the growing demand for non-invasive remote monitoring solutions outside of clinic or hospital settings; (i) the ability of Rockley's technology to provide continuous health insights and diagnostic information; (j) the Company's ability to leverage cloud analytics and AI to monetize data collected with its products and (k) the Company's long-term roadmap beyond health and wellness. The forward-looking statements contained herein are based on Rockley's current expectations and beliefs concerning future developments and their potential effects. Certain statements contained in this Investor Presentation may be statements of future expectations and other forward-looking statements and involve known and unknown risks, assumptions, uncertainties and other factors that may cause the actual results, performance and financial condition of Rockley, or industry results, to be materially different from any future results, performance or financial condition, expressed or implied by such forward-looking statements, including, but not limited to, the risks discussed in Rockley's Quarterly Report on Form 10-K for the quarter ended December 31, 2021 and as detailed from time to time in Rockley's other filings with the SEC. Statements contained in this Investor Presentation regarding past trends or activities should not be taken as a representation that such trends or activities will continue in the future. No assurance can be given that future events will occur, that projections will be achieved, or that the assumptions contained herein are correct. Actual results may differ materially from those projected and you should not place undue reliance on forward-looking statements. Rockley disclaims any obligation to update or otherwise revise these forward-looking statements to reflect future events or developments.

Rockley Photonics Overview



\$48B+ Healthcare TAM

60%+ Contracted customers' market share in wearables market

200 Patents, with another 292 pending applications*

8+

Years of product development

- Continuous, non-invasive monitoring of key biomarkers
- At the intersection of consumer and healthcare markets
- Miniaturizing clinical machines onto a wearable chip
- Technology stack to serve multiple disciplines
- 17 leading consumer electronics + medical device customers
- Expanding product roadmap creating long-term growth opportunity



Unique Spectrometer Chip







Clinic-on-the-Wrist[™] Miniaturizing clinical technology onto a wearable chip





\$48bn+ consumer and health market opportunity



Industry-revolutionizing technology platform



Validated by leading blue-chip customers



Capex-light and scalable manufacturing model



Multiple avenues for consistent growth with compelling value creation



Enabling *Proactive* Health and Wellness



The Problem

- Reactive healthcare system
- Multiple devices required
- Current wearable devices lack accuracy and sophistication

The **Opportunity**

- Personal health & wellness monitoring
- Converging consumer and healthcare markets
- Continuous, remote and codified monitoring technology









Industry-revolutionizing technology platform



Validated by leading blue-chip customers



Capex-light and scalable manufacturing model



Multiple avenues for consistent growth with compelling value creation



Operating at Intersection of Consumer and Healthcare – Maximizing Market Opportunity



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\$48B+ Hardware TAM in 2025

Large Market Opportunity for Unique Sensing

Devices Health and Wellness Monitors

\$18B TAM

Mobile Smartphone

\$23B TAM 1.5B Units

Wearables Smartwatch, Fitness Band, Smart Earbuds

\$7B TAM 700M Units

+ Cloud-Services DAAS/SAAS TAM on top of hardware TAM Roll out strategy that drives market access and enables new markets

- Initial roll-out in consumer health and wellness
- Roadmap to fully-regulated offering
- New uses cases for better patient monitoring
- Accretive cloud services offering that further increases TAM via SAAS model and creates further value





\$48bn+ consumer and health market opportunity



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Miniaturizing a Clinic into a Wearable Device

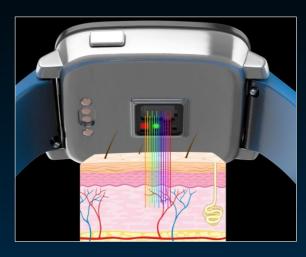




Deeper Data Collection By Analyzing A Wider Optical Spectrum



Clinic-on-the-Wrist™ Module



Multiple laser wavelengths probe non-invasively into the skin to extract a "spectral fingerprint" of user's health. Rockley Differentiation.

Rockley AI Platform



Infer

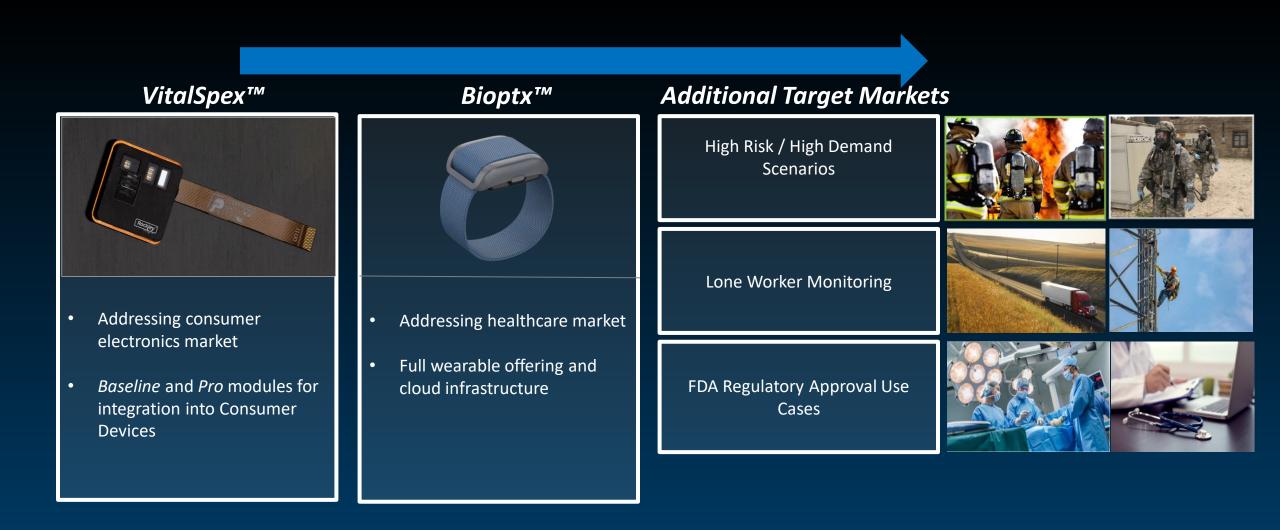
AI/ML derived algorithms refine accuracy and maximize functionality from spectral fingerprint.

The Result

A platform that is collecting much richer data than current LED PPG solutions

Capable of continued and long-term increase in functionality and use cases powered by AI/ML led inference and interpretation

Delivering Continued Growth Through Cohesive Market Expansion



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Initial Biomarker Product Roadmap





Blood Oxygen (SpO2)

Baseline Module

Respiratory Rate

Heart Rate

Heart Rate Variability

Blood Pressure

Core Body Temperature

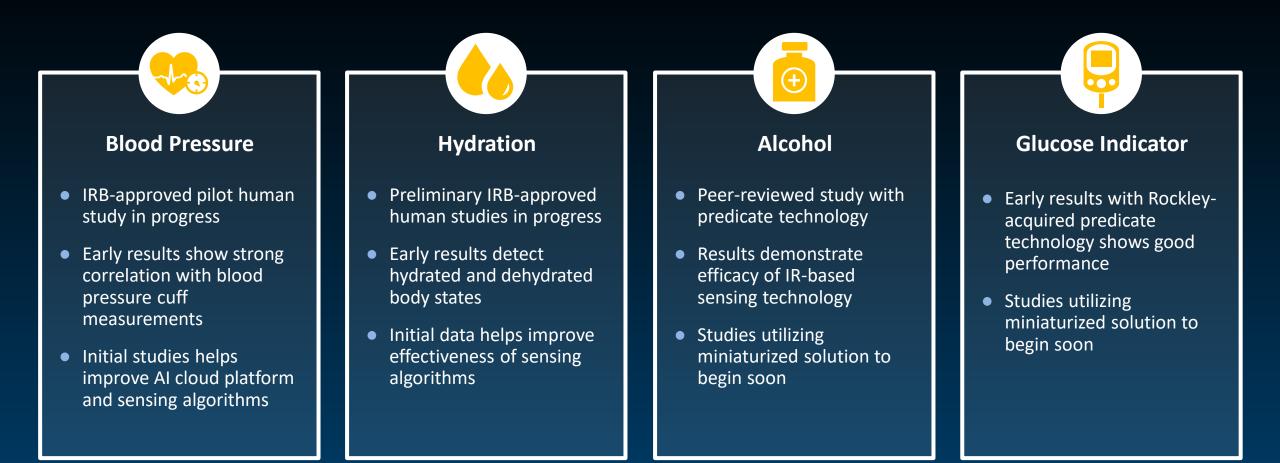
Hydration

Pro Module	The Future
Baseline Module Functionality +	Urea
Lactate	Creatinine
	Albumin
Alcohol	Bilirubin
Glucose Indicator	Hemoglobin

Illustrative Biomarker Development Stages



Rockley is executing on innovation





Multi-biomarker approaches exponentially increases use cases and growth opportunities.

			Heart		Liv	er	Kid	ney	Lu	ng	Br	ain	Thy	roid	Pancreas		Infection	
		CAD	HTN	CHF	Cirrhosis	Нер С	CKD	Kidney Stones	Asthma	COPD	Alzheim- er's	Stroke	Hyper	Нуро	Diabetes	Flu / Pneumonia	COVID-19	Sepsis
	SpO2	•		•					•	•		•	•	•		•	•	•
	RR	•	•	•					•	•		•	•	•	•	•	•	•
Baseline	HR / HRV	•	•	•			•		•	•	•	•	•	•	•	•	•	•
Base	BP	•	•	•			•		•	•	•	•	•	•	•	•	•	•
	СВТ			•			•						•	•		•	•	•
	Hydration			•			•	•			•	•			•	•	•	•
	Glucose	•	•	•	•	•	•			•	•	•	•	•	•			•
Pro	Lactate									•		•			•	•	•	•
	Alcohol	•	•	•	•						•	•						
	Urea			•			•	•					•	•			•	•
a)	Creatinine						•	•					•	•	•		•	•
Future	Albumin			•	•	•	•								•		•	•
	Bilirubin				•	•			•	•							•	•
	Hemoglobin			•	•		•			•							•	•

Substantial Technology Lead by Innovating across Technology Stack



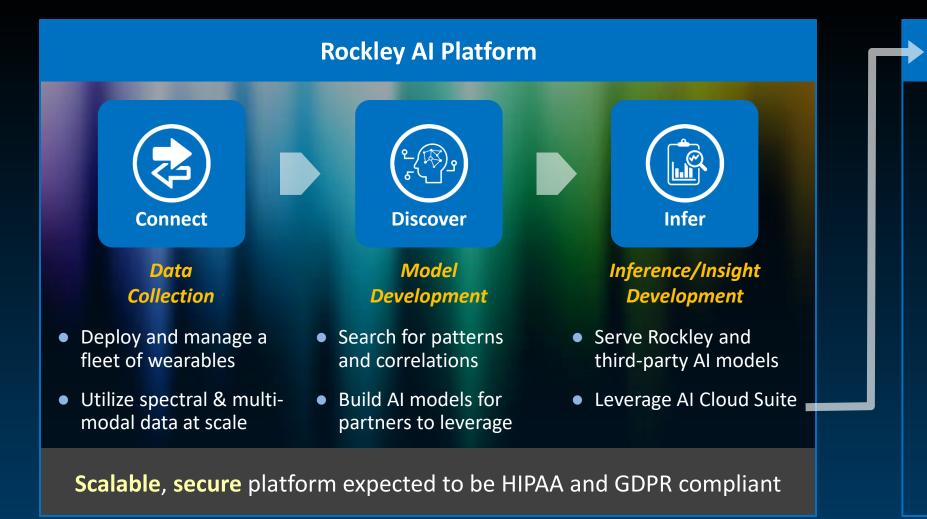
Rockley is unique in its approach of innovating across the entire technology stack. 200 Issued Patents and 292 Pending Patents*.

Semiconductor Technology & Process	Full Module & Product Capability	Measurement Science & Data Analytics	Highlights
Photonic ICs in silicon with integrated III-V	System architecture and hardware design	Biosensing algorithms, cloud analytics, and Al	Robust multi-disciplinary patent portfolio: 182 issued, 298 pending*
Electronic ICs	Photonics-based sensing module (LED and IR)	Biomarker data collection	Technology and process complexity: End-to-end manufacturing process and design technology
Photonic and electronic co-packaging	Firmware / software	AI/ML-based analytics	Huge technological commitment: 8 years & \$400M of R&D
High-volume manufacturing process and ecosystem			World class multi- disciplinary team: 109 PhDs, 205 engineers*

ecosystem

Cloud Analytics Drive Customer Adoption, Functionality





Rockley AI Cloud Suite

Allows partners to

- Build and monetize their models
- Discover and deploy third-party models into their applications
- Create customized applications
- Accelerate product development

Broadest Range of Biomarker Detection

Rockley®
PHOTONICS

	Rockley PHOTONICS	am	ANALOG DEVICES	<i>Si</i> Time [®]	Texas Instruments
HR / HRV	\checkmark	\checkmark	\checkmark	\checkmark	✓
Pulse oximetry	\checkmark	\checkmark	\checkmark	×	\checkmark
BP	\checkmark	\checkmark	×	×	×
Respiration rate	\checkmark	×	\checkmark	×	×
Core body temperature	\checkmark	×	×	×	\checkmark
Body hydration	\checkmark	×	×	×	×
Blood flow	\checkmark	×	×	×	×
Hemoglobin constituent	\checkmark	×	×	×	×
Blood alcohol	\checkmark	×	×	×	×
Lactate	\checkmark	×	×	×	×
Glucose indicator	\checkmark	×	×	×	×





\$48bn+ consumer and health market opportunity



Industry-revolutionizing technology platform



Validated by leading blue-chip customers



Capex-light and scalable manufacturing model



Multiple avenues for consistent growth with compelling value creation



Customer Base Intersects Consumer and Medical





 Includes 2 of the top 10 medical devices companies





Massive Consumer and Health Market Opportunity



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Multiple avenues for consistent growth with compelling financial profile



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Established Capex-Light, Scalable Manufacturing Model

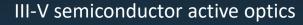
- Fabless model enables extremely strong product margins whilst remaining cap-ex light.
- Rockley's proprietary manufacturing process already ported into volume manufacturing ecosystem with capacity to support business needs.

Proprietary Process Wholly-Owned by Rockley and IP Protected

High-Volume IC / Wafer Foundry Partners

- Silicon photonics ICs and wafer-scale integration
- Health, auto, & consumer qualified
- 400K+ wafers per year capacity

High-Volume III-V Semiconductor Foundry Partners



- Telecom & consumer qualified
- Large wafer scale, fully automated

Leading Global IC Foundry Partners



Electronic Integrated Circuits

- Used by most major consumer OEMs
- Qualified ultra-high-volume process node

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Product Offering Drives Adoption and Opportunities







First commercial product launch is expected to begin late 2022, additional product lines ramping throughout 2023 Go-to-market strategy creates scalable market access that captures economies of scale

Rockley		End-Product	20	2021		2022		2023		2024		2025	
Produ	uct Offering	Form Factor	H1	H2	H1	H2	H1	H2	H1	H2	H1	H2	
	Baseline Module/Chipset	 Wearable Entry smart watch/band 	Pre-alpl	ha sample	es		Comm	ercial lau	nch & vol	ume ramı	p		
		• Mobile			Gen. 1		Gen. 2		Gen. 3		Gen. 4		
	Pro Module/Chipset	 High-end smart watch High-end smart band 		Pre-alpha samples			Commercial launch & volume ramp						
	• Mobile (high				Gen. 1		Gen. 2		Gen. 3		Gen. 4		
	Wristband	 Stand-alone / medical-grade 	Pre	-alpha sa	mples			ommercia		k volume			
							Gen. 1		Gen. 2		Gen. 3		
	AI Cloud Suite	 Cloud analytics Al models 	Collaboration platform			Commercial launch & volume ramp				C			
							Gen. 1		Gen. 2		Gen. 3		

Significant Execution and Traction Since IPO



12 CE customers (from 4*). Deep design wins and commitment. Negotiating volume POs. Significant increase in committed consumer devices customers, now contracted with 6 of the top 10 wearables providers in the world and 12 in total.

2 **5 leading medical equipment customers (from 0*). Negotiating volume POs.** Includes 2 of the top 10 medical equipment and devices manufacturers with strong pipeline. Acceleration of opportunity via Rockley's full wearable device.

3 Acceleration of medical devices market access. Delivery of pre-alpha modules. \$48B+ TAM. Faster deployment. Significant ASP uplift opportunity (wearable and recurring revenue). Delivery of pre-alpha modules and wearable devices. Significant customer pull.

World-leading medical and technical partnerships. Collaborations with Mount Sinai Health Systems and with Caltech, in addition to deep relationships with VTT, Tyndall Institute, and others.

Completion of preliminary stages of human studies. Encouraging results. Multiple human studies using Rockley's wearable wristband. Encouraging results across a range of biomarkers. Refining the overall performance of the biomarker sensing platform.

Launch of full biosensing platforms. Full end-to-end platforms for both consumer (*VitalSpex*[™]) and medical markets (*Bioptx*[™]), incorporating hardware, software, measurement science, sensing algorithms, cloud-based analytics.

Significant IP portfolio increases. 200 granted patents (292 pending)**

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Looking Ahead: Key Near-Term Milestones

Further customer wins

Product purchase commitments

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H1 2022

H2 2022

H1-H2 2022

Baseline Q1 2022, *Pro* Q4 2022

	Volume purchase orders
	 Engineering Samples of <i>Baseline</i> + <i>Pro</i> module
Product/Technology	Initial Commercial Volumes of <i>Baseline</i> band
Development	• Alpha Release of Cloud Analytics – Connect + Di

Customer

•	Initial Commercial Volumes of <i>Baseline</i> band	H2 2022
•	Alpha Release of Cloud Analytics – Connect + Discover	Connect H1 2022, Discover H2 2022
•	Beta Release of Cloud Analytics – Connect	H2 2022
•	Human studies across Baseline biomarkers	Throughout 2022
•	Commencement of Pro biomarker human studies	H1 2022
•	Completion of algorithm development for Baseline biomarker	s H2 2022

Application Science

Development







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World Class Multi-Disciplinary Management Team



Executive Team



Dr. Andrew Rickman, OBE*

Founder, CEO and Chairman

- Founder & CEO of Bookham, the first silicon photonics company
- Chairman of Kotura (acquired by Mellanox)
- Awarded OBE in the Queen's Millennium Honors



Mahesh Karanth

Chief Financial Officer

- CFO, Enlightened
- CFO, InvenSense (acquired by TDK)
- Partner at Ernst & Young
- Various senior roles at CPQ and HP

110 212 Engineers** PhDs**

Strong Engineering and Operational Team Builds on the Rockley Platform



Sanjiv Kapoor

EVP of Operations

Senior Director, TDK InvenSense Director, Lenovo



Hooman Abedias

EVP of Engineering

Nokia Bell Labs Award Winner

Annenberg Fellow

Aaron Zilkie

CTO of Photonics

- PM, Kotura and Mellanox
- Sr. Optical Scientist. Oclaro



Ben Ver Steeg

SVP of Sensing Product Dev

- CEO, TruTouch Technologies
- Co-Founder and CTO, Morelight Technologies



Cas Wierzynski

SVP of Cloud and AI

- Senior Director Al Product. Intel
- Research Lead. Qualcomm
- PhD, Caltech



Vish Kulkarni SVP of Commercial

- Head of Product Mgmt and Marketing, Mammoth Biosciences
- Director, Global Marketing, Cepheid Product Management, iRythm Tech



Ciaran Rooney

- VP of Strategy
- Corporate Development
- General Counsel
- Attorney, Cooley











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Transforming Lives through the Power of Light