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BLUGLASS (ASX:BLG) Annual General Meeting 22 November 2021

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FORWARD LOOKING STATEMENT

This document has been prepared by BluGlass Limited to provide readers with an update of the Company and the Company's technology.

Any statements, opinions, technical data and information, or other material contained in this document, do not constitute commitments, representations or warranties by BluGlass Limited or associated entities, or its directors, agents and employees. Except as required by law, and only to that extent, directors, agents and employees of BluGlass Limited disclaim any loss, claim, demand, damages, costs or expenses of any nature whatsoever arising in any way out of, or in connection with, the information contained in this document.

This document includes certain information which reflects various assumptions, subjective judgment and analysis, and is subject to significant business, economic and competitive uncertainties, risks and contingencies, many of which are outside the control of, and are unknown to, BluGlass Limited. The assumptions may not prove to be correct. Recipients of the document must make their own independent investigations, consideration and evaluations prior to making any decisions to invest in the Company.

Information on Service Addressable Markets (SAM) is based on internal BluGlass modelling and assumptions, both of which depend on successful R&D outcomes and results achieved within estimated timetables. BluGlass recommends a cautious interpretation be taken by investors.



26 August 2019

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JAMES WALKER CHAIR'S REPORT

2021 PROGRESS HIGHLIGHTS

JULY 2020

Awarded a **\$250K Advanced** Manufacturing Growth Centre (AMGC) grant to manufacture smarter and faster plasma sources

JULY 2020

Commissioned the first large-scale RPCVD platform, the BLG-500 with AIXTRON SE, capable of multiple 6-inch wafer production

OCTOBER 2020

Won a US government funded contract with Yale University to contribute novel laser diode development for the US Defense Advanced Research Projects Agency (DARPA).

MAY 2021

Renowned laser diode pioneer (co-founder of Nuburu), Jean-Michel Pelaprat joined the BluGlass Board

SEPTEMBER 2021

Industry veteran, Jim Haden appointed as BluGlass President

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AUGUST 2021

World first demonstration of RPCVD tunnel junction laser diodes designed to enable higher power and more efficient lasers

JULY 2021

Raised \$8.4M to fund laser product delivery

JUNE 2021

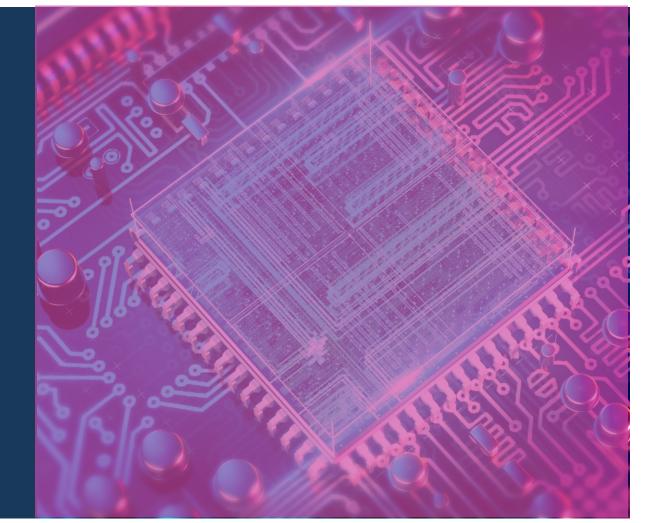
During the year 11 patents were granted taking our IP portfolio to 86 internationally granted patents

2021 CHALLENGES

Technology setbacks and supply chain issues delayed the launch of our first direct-to-market GaN laser diodes

- Reliability testing showed packaging flaws, optical facet degradation, and issues with metalisation
- Using analytical techniques to focus on failure modes to identify components and processes causing issues
- Several products in final stages of manufacturing supply chain
- Prototypes performing in line with commercial specifications for output power and wavelength
- Appointed industry veteran Jim Haden to deliver products to market and transition to profitable commercial enterprise

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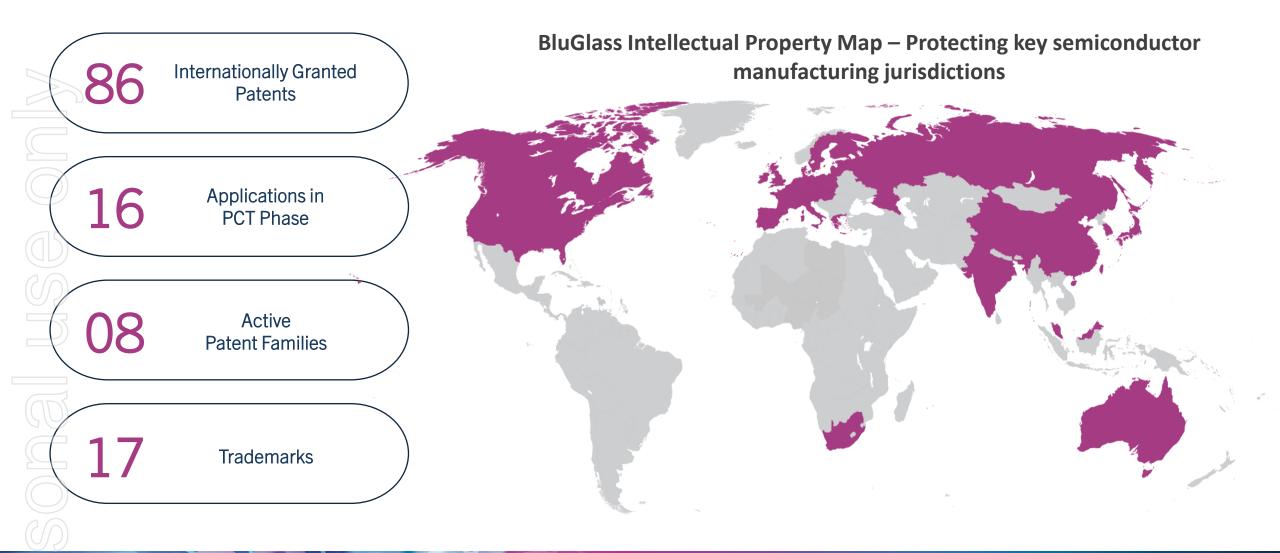
FINANCIAL PERFORMANCE

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	2021	2020	YtY Movement 2021-2020
		\$	%
Sales Revenue EpiBlu Foundry Revenue Laser Diode Revenue Other Income Interest Government grants	363,573 225,492 138,081 662,111 4,782 657,329	655,830 505,830 150,000 149,976 29,976 120,000	Down 45% Down 55% Down 8% Up 340% Down 526% Up 447%
Net Assets	7,509,329	12,393,472	Down 40%
Consolidated Loss	6,288,710	5,994,113	Up 5%
Monthly Burn Rate	754,000/month	617,000/month	Up 22%
R&D Tax Rebate (Receipt for prior year R&D spend)	3,320,000	2,735,000	Up 21%
Cash Position (as at end of FY)	4,176,300	5,430,240	Down 23%
Cash Position (as at 2 November 2021)	8,189,955	5,636,870	Up 45%

GLOBAL PATENT PORTFOLIO – IP UPDATE

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OUTLOOK TO 2022 AND BEYOND

New Internationally Experienced LD Talent

- Appointed industry veteran Jim Haden as BluGlass President
 Laser industry pioneer, Jean Michel Pelaprat (Co-founder of Nuburu) joins the BluGlass Board
 - Senior Laser Diode Scientist Dr.
 Arkadi Goulakov and US Facilities &
 Equipment Manager Peter
 Tienhaara join our US team

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Systematically Overcoming Challenges

- Focus on delivering four key ingredients (Epi, Metals, Facets, Bonds) to launch our first laser diode product
- Transition to a structured phase gate product introduction process
- Capitalise on BluGlass' epitaxial foundation and capacity

Clear Roadmap to Deliver Products & Revenue

BluGlass anticipates that early sales of our first direct-to-market laser diode samples will occur mid 2022 (single chip modules and or chip on submounts). Sales and revenue generation is anticipated to ramp up from 2023 and beyond



Large and Growing Laser Diode End Markets

Global laser revenue is forecast to exceed US\$25B by 2025*, growing rapidly due to increasing smart technology adoption (EVs, renewables, smart phones, TVs and cars, and 3D printing) . The GaN segment is growing faster than anticipated, forecast to reach US\$2.5B by 2025*

*Source: Strategies Unlimited 2020

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JIM HADEN PRESIDENT'S REPORT

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INDUSTRY OVERVIEW - LASER REVENUE GROWTH FORECAST (2019 – 2025)

Laser revenue near triples in past decade Driven by the adoption of high-tech applications around the globe such as:

smart phones and TV's, 3D printing, electric vehicle and renewable energy storage, as well as significant growth across the industrial materials processing (automotive, aviation and others)

US\$5.6B 2009

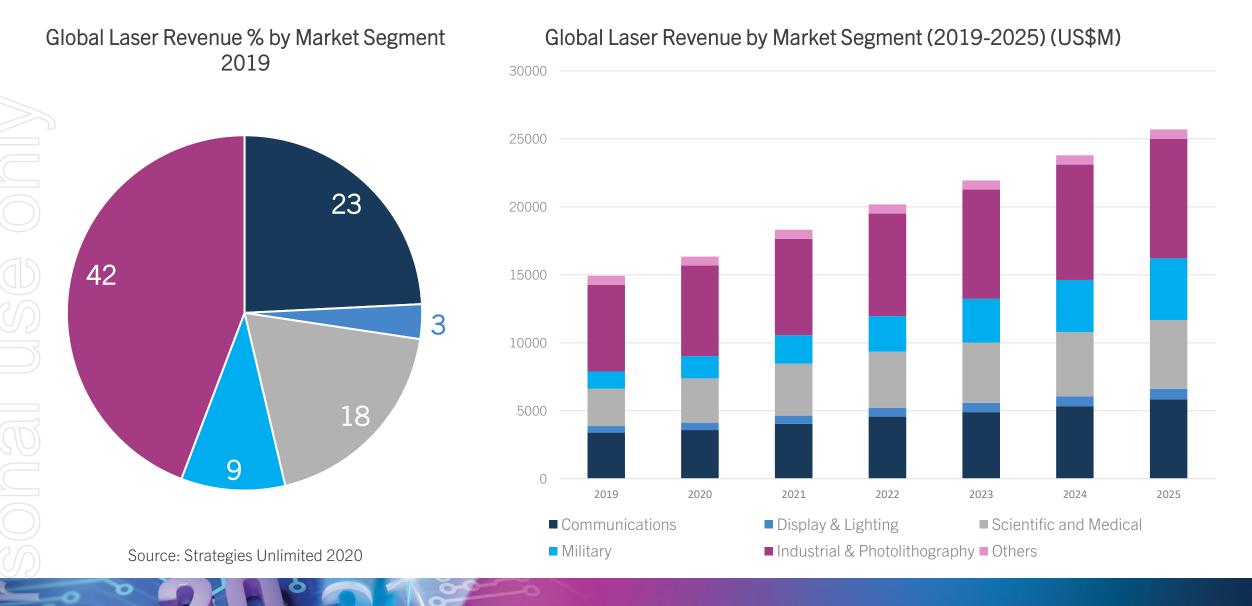
With growth set to increase pace over the next decade

US\$15B 2019

US\$25B 2025

Source: Strategies Unlimited 2020

MARKET OVERVIEW – GLOBAL LASER REVENUE FORECAST BY SEGMENT (2019-2025)



BRINGING INNOVATION TO LIFE

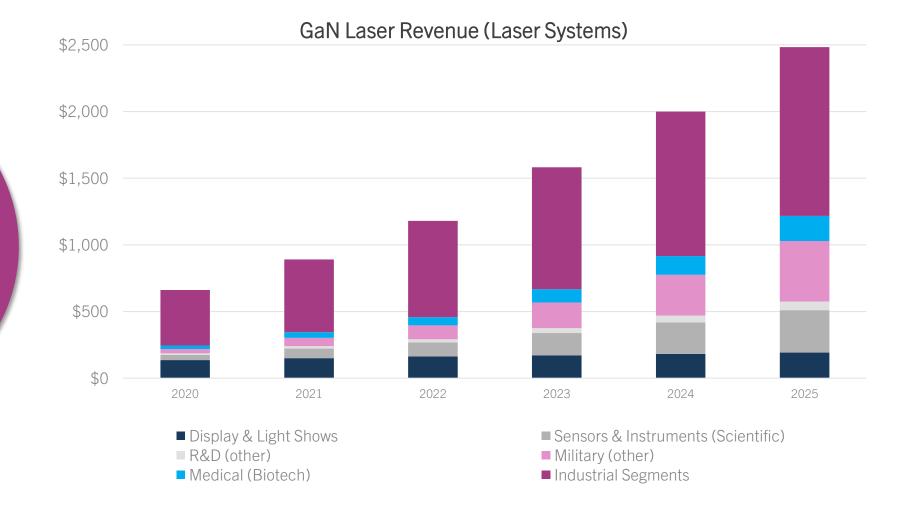
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MARKET OVERVIEW – GLOBAL GAN LASER REVENUE FORECAST BY SEGMENT (2019-2025)

US\$2.5B GaN Laser Systems Revenue opportunity by 2025

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Source: Strategies Unlimited and Internal BluGlass modelling based on industry sources

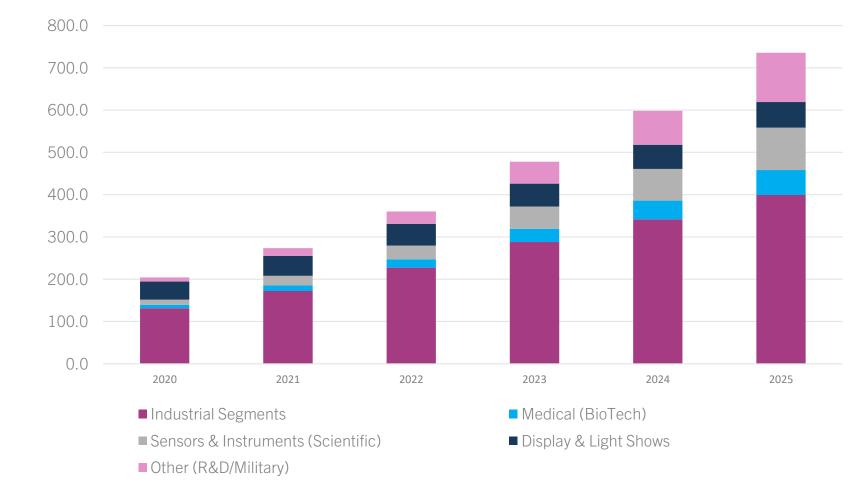
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MARKET OVERVIEW – BLUGLASS SERVICE AVAILABLE MARKET (2020-2025)

BluGlass Service Available Market opportunity by 2025 is **US\$735M** BLG has an estimated installed EPI Capacity

to support US\$170M in revenue

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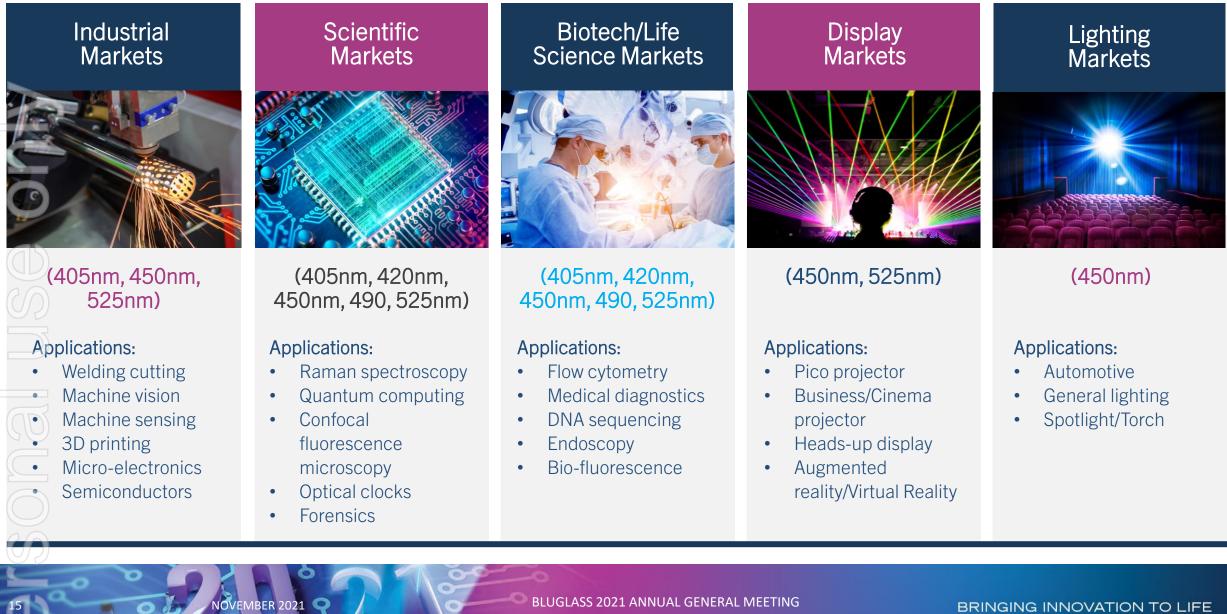


BluGlass Serviceable Available Market (2020-2025) (US\$M)

Source: Strategies Unlimited and Internal BluGlass modelling based on industry sources

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INDUSTRY OVERVIEW – GaN MARKET VERTICALS



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INDUSTRY OVERVIEW – BLUGLASS TARGET MARKETS





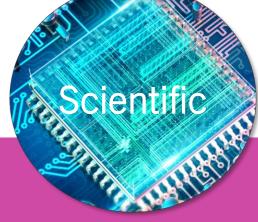
BluGlass' Industrial Product Addressable Market by 2025 is

US\$240M

Target Applications: Welding, Marking, 3D Printing

> Customer Landscape includes: IPG Photonics, nLight, Nuburu, Optical Engines

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BluGlass' Scientific Product Addressable Market by 2025 is

US \$80M

Target Applications: Quantum Computing/Sensing, Spectroscopy

Customer Landscape: Coherent, Toptica Photonics, Novanta-Laser Quantum



BluGlass' BioTech Product Addressable Market by 2025 is

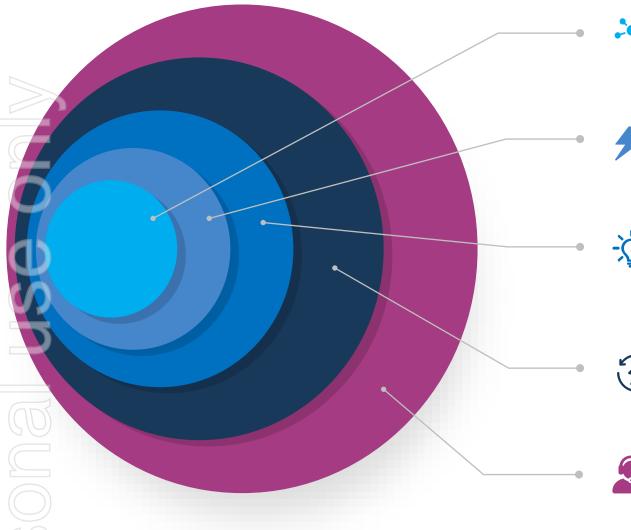
US \$60M

Target Applications: Flow Cytometry, DNA Sequencing, Photodynamic Therapy

Customer Landscape includes: (OEM's) Akela Laser, Laser Components, PicoQuant

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INDUSTRY CHALLENGES - ECONOMIC DRIVERS



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Increased manufacturing flexibility

Customers are looking for cost effective solutions that are easy to integrate

Power (\$/W)

Price per Watt of power is a key metric. Like the price per computing power, the laser market demands reduced \$/W

Brightness (\$/W/mRad)

However, customers will pay higher prices for brighter sources

Efficiency (\$/% Efficiency)

The power conversion efficiency is a key economic driver when considering total cost of ownership

Customer Integration (\$/Customer module)

Modules that provide brighter solutions ease our customer's integration burden (material, labor, and overhead)

INDUSTRY CHALLENGES – BLUGLASS VALUE PROPOSITION

BluGlass' target market position

Providing plug and play easy-to-use laser light through:

Unique form factors and vertically integrated packaging

Novel laser architectures including multichip modules and RPCVD enhanced lasers to achieve brighter, cost effective, higher efficiency and higher power laser light

Flexible and custom manufacturing

Why there is a need for BluGlass

Existing large players do not provide flexible form-factors
 and wavelengths – requiring significant customisation
 and post purchase packaging by customers

How BLG meets these needs: Short-Term



Focused on addressing customer requests to serve unmet needs across 405 to 450 nm laser diodes with standard packages

How BLG meets these needs: Long-Term

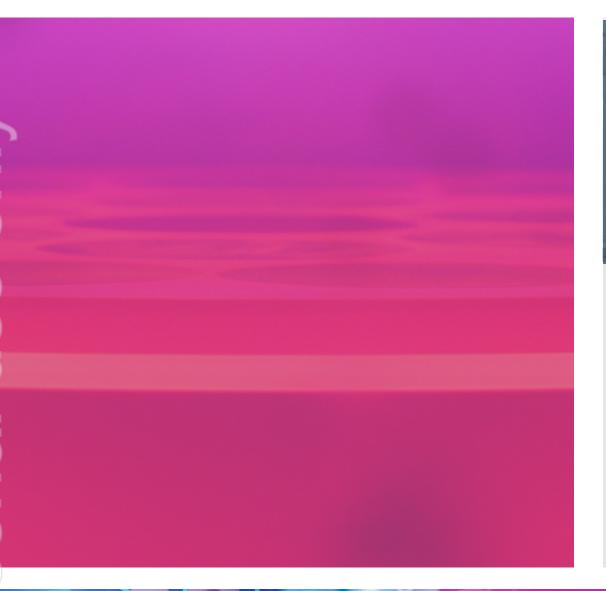


We will address unmet needs, offering an expanded range of wavelengths, form factors and package integration options



Deliver novel laser architectures designed to increase efficiency, power, and brightness while reducing customer integration costs – providing the industry's leading easy-to-use laser light

PLAN TO TRANSITION BLUGLASS TO PRODUCTION & PROFITABILITY



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Achieve a competitive advantage: outperforming rivals through a combination of strategic positioning and operational strategic description effectiveness

- Strategic positioning: Perform different activities or similar activities in different ways (core competencies such as our proprietary and patented epitaxial-growth techniques)
- Operational Effectiveness: Develop and perform operational competencies better than our competitors (supply chain management and what to insource)

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SHORT AND LONG-TERM STRATEGIC REQUIREMENTS

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Short-term Objectives

- Develop an initial laser diode solution that provides satisfaction to the immediate market
- Put the company on a path of continuous improvement

Satisfy all three conditions of a successful strategy:

- Profit
- Security
- Market Satisfaction

Long-term Objectives

PLAN TO TRANSITION BLUGLASS – PRODUCT

1. PRODUCT



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Provide continuous flow of in-demand products to the market:

- Focus on delivering four key ingredients (Epi, Metals, Facets, Bonds) to launch our first laser diode product
- Capitalise on our epitaxial foundation
- Conduct non-product module short-loops to qualify contract manufacturers & product
- Longer-term: Transition to a structured phase gate product introduction process

PLAN TO TRANSITION BLUGLASS – CULTURE & TALENT



Transition from licensing to a product development and production culture:

- Maintain culture of entrepreneurial innovation
- Instil a culture of production discipline
- Apply production protocols:
 - Statistical Process Control (SPC) & yield correlations
 - Module metrics for success indicators

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Attract and retain BluGlass' world-class innovative team:

- Ensure we have the right talent optimized based on our needs and funding
- Align goals to top-level for each employee

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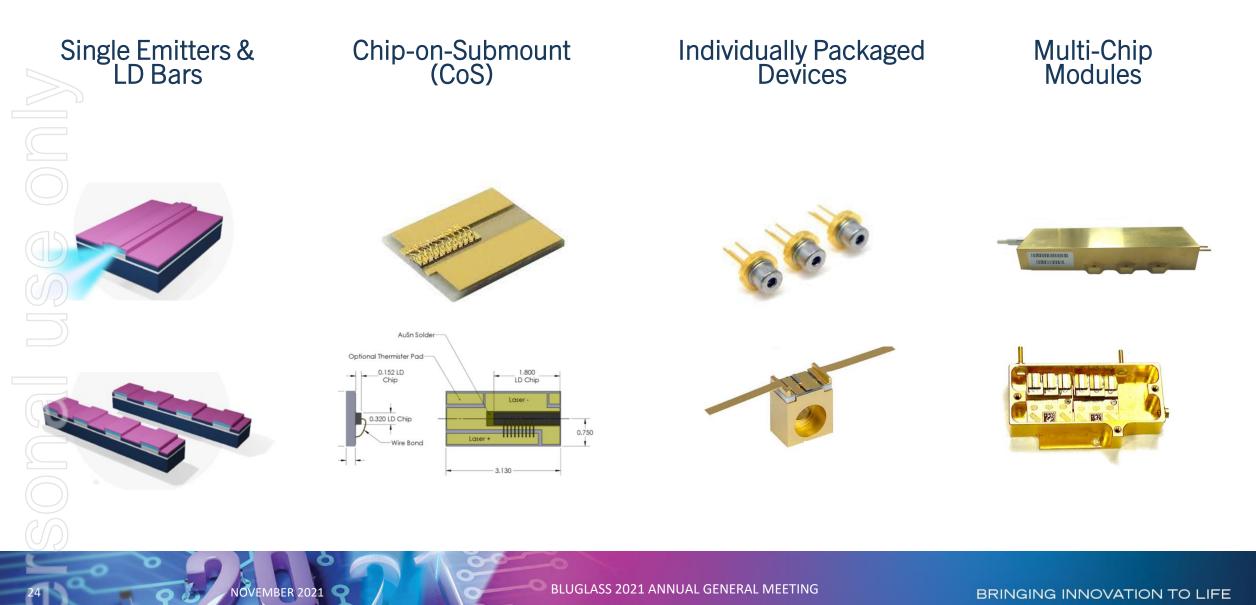
BLUGLASS LASER DIODE MANUFACTURING STEPS

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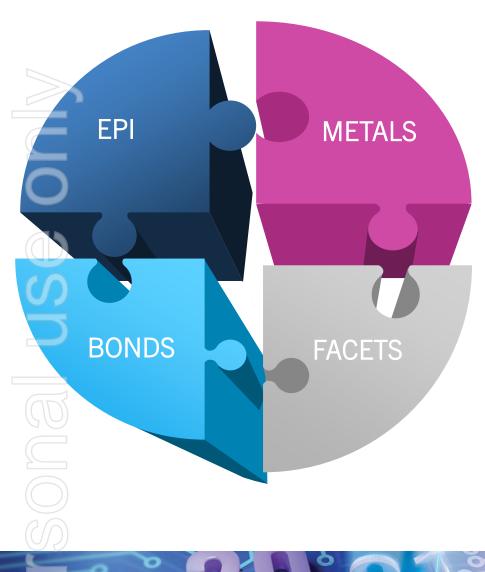
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BLUGLASS LASER DIODE FORM FACTOR OFFERINGS



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THE FOUR KEY INGREDIENTS FOR RELIABLE COMMERCIAL LASER DIODES



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01. EPI - Low loss, high gain epitaxy

- Develop quick turn epitaxial diagnostic growth metrics
- Establish feedback loop to refine laser structure and growth conditions
- Refine reactor strategy and allocation. Our estimates suggest we have the epi capacity to reach 20%-25% of our 2025 service available market (US\$735M SAM)

02. METALS - Low resistance ohmic contacts

- Design low resistance n & p metal layers required for high-efficiency operation
- Refine cleaning and annealing processes to ensure good adhesion, uniform resistance, and subsequent cavity pumping

03. FACETS – Clean cleave and low loss AR and HR coatings

- Resolve observable facet damage
- Refine AR and HR coating processes

04. BONDS – Thermal mechanical bond

- Sound thermal bond to enable heat flow away from the laser
- Sound mechanical bond to withstand heating and cooling events during normal laser cycling

LASER DIODE PRODUCT AND OPERATIONS TIMELINE

	Product Roadmap - Task	Market Segment	CY2021	CY2022	CY2023	CY2024
CĐ -				LASER DIODE PROD	UCT DEVELOPMENT	
	BluGlass Laser Diodes	Prototype devices (feasibility) Metals Validation Thermal Mechanical Validation EPI (MOCVD) Validation Facet Validation LD Beta Sampling (405-450nm) LD Sales Multi-Chip Modules Extended wavelengths and TJ		Pilot	Ramp	
502				MANUFACTURIN	G & OPERATIONS	
	BLG opens US Test Facility Supply chain qualification BLG–US Pilot Volumes (CoS, Single-Chip Pkg) Internal Coating Capability US capacity expansion					
Key:	Technology Demonstration Milestone Manu	Ifacturing Milestone	oduct Launch	Sales R	amp	

BLUGLASS LASER DIODE PRODUCT SALES ECONOMIC SCENARIOS

Aggregate Market Share of % of TAM is based on the timely achievement of technical milestones.

Stretch revenue is based on the timely achievement of BluGlass' technical milestones and accelerated customer demand and market growth.

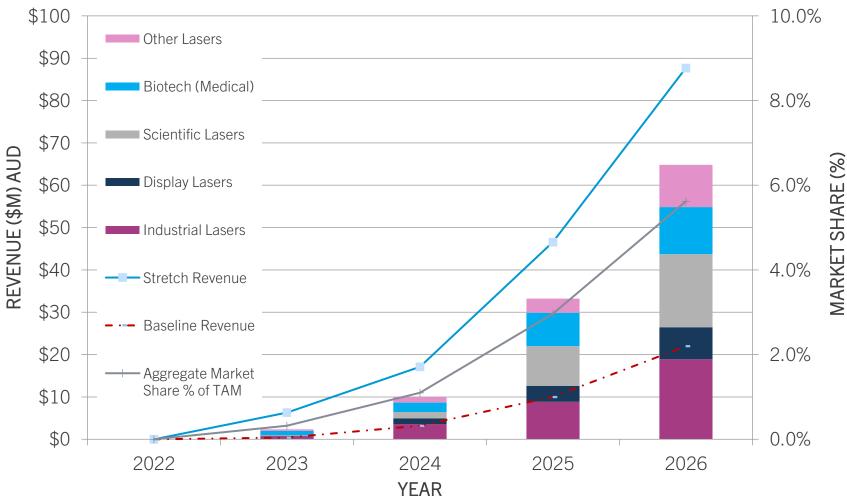
Baseline revenue is based on a delay in the attainment of certain technical milestones that reduces the number of laser diode products for sale or slower customer demand and market growth.

Assumptions used in creating these scenarios:

BluGlass' economic scenarios rely on key technology (including RPCVD & tunnel junction performance), financing, supply chain and market penetration assumptions.

Any failure to achieve the assumed outcomes will have a material affect on the economic scenarios outlined here. In particular, BluGlass has not yet solved reliability in order to launch its first laser diode products, and any target market revenues outlined should be considered speculative until proven.

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Source: Internal BluGlass modelling based on industry sources, including Strategies unlimited, Markets & Markets, Laser & Photonics Marketplace 2020

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BluGlass Economic Scenarios (2022-2026) (AUD\$M)

SUMMARY AND OUTLOOK

Bringing Innovation TOLIFE

Solving reliability to launch range of laser diode products to market

BluGlass is focused on delivering the four key elements to achieve reliable, commercial products ready for sale: (Epitaxy, Metals, Facets and Bonds)

Strategic positioning

BluGlass is delivering products to address significant unmet needs in the industry to provide

- unique form factors
- vertical package integration
- novel laser architectures including multi-chip arrays and RPCVD enhanced lasers

Large and growing end markets

BluGlass' end market opportunity is growing rapidly to represent a \$2.5B market with very few competitors (market is comprised of three main suppliers presently)

Providing plug-and-play easy-to-use light

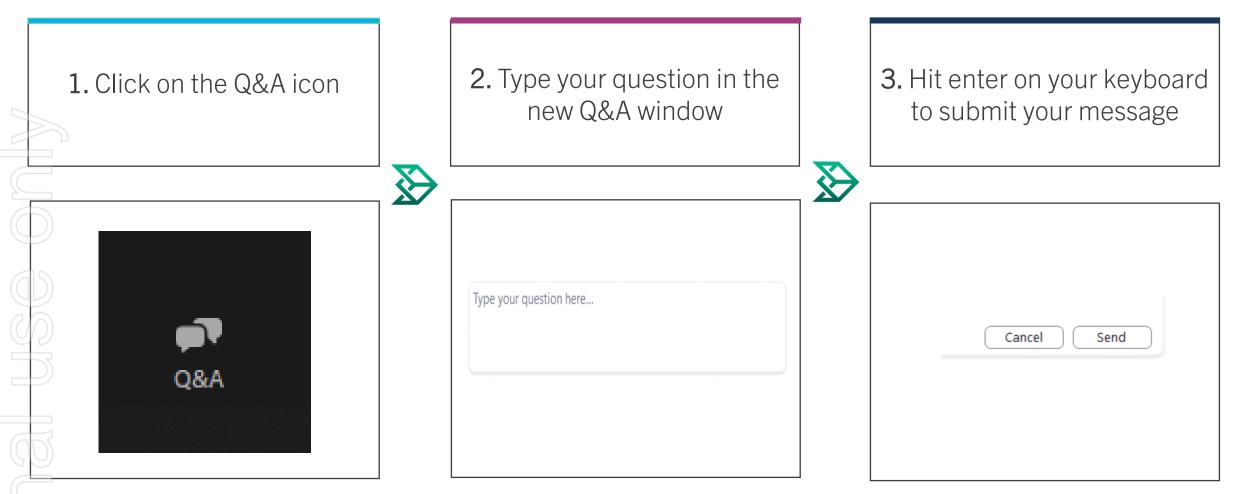
By delivering unique form factors and vertical package integration and novel laser architectures including multichip arrays and RPCVD enhanced laser



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Online Q&A



To contact Automic support:

Please call 1300 816 159 (within Australia) or +61 2 8072 1479 (outside of Australia)

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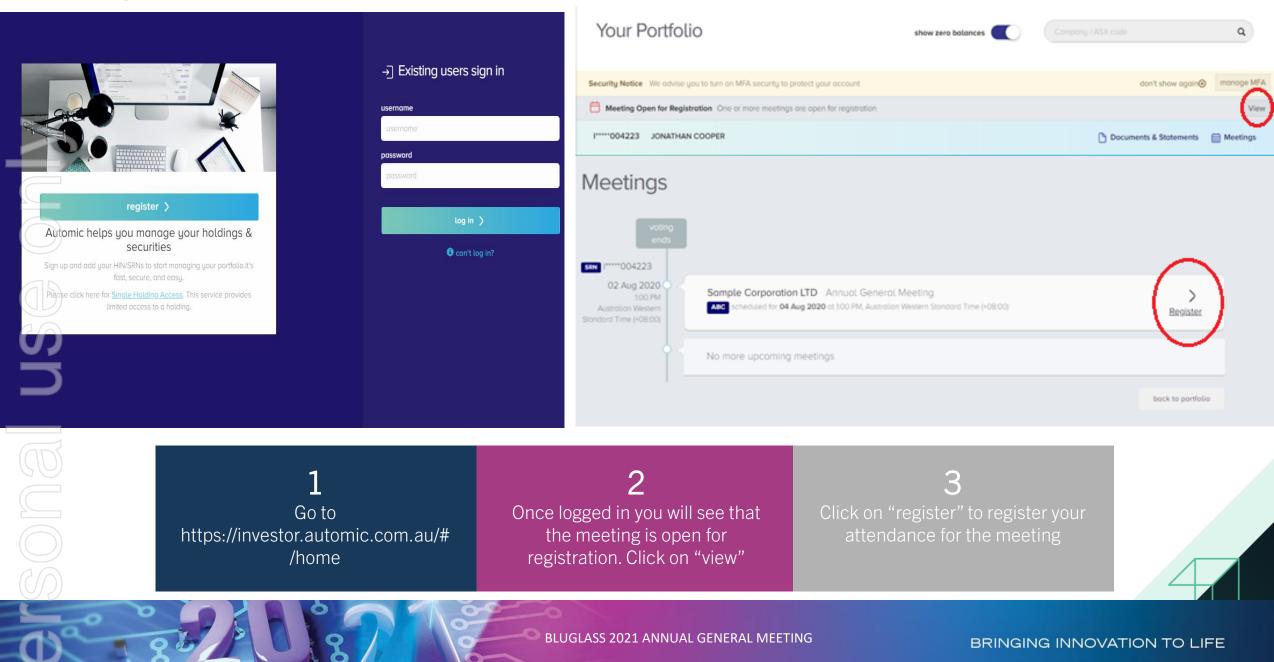
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Voting Instructions: Automic Portal



Voting Instructions: Automic Portal

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Registration	Voting
Sample Corporation LTD - Annual General Meeting	Sample Corporation LTD - Annual General Meeting
Complete - Step 2 of 2 Registration Complete! The voting is not open yet. Refresh this page or come back here later. You can join the meeting online using the following link https://us02web.zoom.us/j/85784417406?pwd=TFF0TTdGTEhGSENIbUN5NzF3bJUU0T09:	Poll - Step 1 of 3 You can join the meeting online using the following link Interst/Us0/2web.zoom.us/J85784417406?owd=TFFOTTdGTEhGSENIbUN5NzF3bLUQT09: Resolutions You must vote on all resolutions, except for those marked as withdraws. 1 Remuneration Report 2 Re-Election Of Jonathan Cooper as National Head of Client Services
Once the Chair of the Meeting declares voting open, you should select "refresh" your vote, the se	5 elect the direction vould like to cast elected option will e colour. 6 Once voting is declared closed you must select "next" and then "confirm" to submit your vote.

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THANK YOU

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