

19 January 2023

## BluGlass' Fremont lasers meet performance benchmarks

### Highlights

- GaN lasers produced at BluGlass' Silicon Valley fab are meeting or exceeding contract manufacturer performance benchmarks
- Results confirm BluGlass has successfully transitioned p-side processing from contract manufacturers to its Silicon Valley fab
- The Company remains on track to complete vertical integration by the end of FY23

Global semiconductor developer BluGlass Limited (**ASX: BLG**) advises that gallium nitride (GaN) laser diodes produced at its Silicon Valley production facility are now achieving or exceeding contract manufacturer performance benchmarks.

Testing of BluGlass' first lasers processed at its Fremont fab are demonstrating electrical and light-output performance in-line or better than previous iterations. These results follow the successful transition of p-side processing from contract manufacturers to its Silicon Valley fab. Reliability testing of these lasers has commenced.

BluGlass continues bringing core downstream manufacturing processes in-house, with thinning, cleaving, n-metallisation processes commencing, and facet coating well underway. The Company is targeting vertical integration by the end of FY23.

BluGlass President Jim Haden said, "Vertical integration is key to our commercialisation strategy, enabling us to improve our laser quality, consistency, and performance while significantly speeding development and reducing production costs. This technical milestone demonstrates the importance of operational control in accelerating development turns. Our Silicon Valley production team has commenced work on n-side processing and facet coating capabilities, which is expected to further expedite development, production, and improve laser performance and reliability."

*This announcement has been approved for release by the BluGlass Board.*

**For more information, please contact:** Stefanie Winwood | +61 2 9334 2300 | [swinwood@bluglass.com](mailto:swinwood@bluglass.com)

### About BluGlass

Developing leading-edge semiconductor manufacturing technology and devices for more than a decade, **BluGlass Limited (ASX:BLG)** is a provider to the global GaN photonics industries, delivering cutting-edge, custom **laser diode** development across the industrial, defence, bio-medical, and scientific markets.

Listed on the ASX, we are an Australian public company established to power the smarter, cleaner, more efficient photonics of tomorrow with our proprietary low temperature, low hydrogen, **remote plasma chemical vapour deposition** (RPCVD) manufacturing technology.

Backed by an extensive network of supply-chain partners, BluGlass is developing a suite of laser diode products, from small-batch custom lasers to medium and high-volume off-the-shelf products.