This presentation contains “forward-looking statements” within the meaning of Section 27A of the Securities Act of 1933, as amended, and Section 21E of the Securities Exchange Act of 1934, as amended (which Sections were adopted as part of the Private Securities Litigation Reform Act of 1995). Statements preceded by, followed by or that otherwise include the words "believe," "anticipate," "estimate," "expect," "intend," "plan," "project," "prospects," "outlook," and similar words or expressions, or future or conditional verbs such as "will," "should," "would," "may," and "could" are generally forward-looking in nature and not historical facts. These forward-looking statements involve known and unknown risks, uncertainties and other factors. Among the important factors that could cause actual results to differ materially from those indicated by such forward-looking statements are risks relating to, among other things, market and other conditions, Sigma Labs' business and financial condition, the extent of the market's acceptance of PrintRite3D version 7.0, Sigma Labs' ability to satisfy its capital needs through increasing its revenue and obtaining additional financing, and the impact of COVID-19, general economic, industry or political conditions in the United States or internationally. The Company disclaims any intention to, and undertakes no obligation to, revise any forward-looking statements, whether as a result of new information, a future event, or otherwise. For additional risks and uncertainties that could impact the Company's forward-looking statements, please see disclosures contained in Sigma Labs' public filings with the SEC, including the "Risk Factors" in Sigma Labs' Annual Report on Form 10-K, and which may be viewed at [www.sec.gov](http://www.sec.gov).
Sigma Labs Overview

- Develop In-Process Quality Assurance solutions for the Additive Manufacturing industry
- Headquartered in Santa Fe, N. M.
- Our product, PrintRite3D detects and identifies defects in real-time during the printing process
- We believe that we have first mover advantage with formidable barriers of entry
- Business Model that will accelerate both in revenue and profitability with the growth of the industry

Sigma Labs (NASDAQ: SGLB)

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1. As of September 8, 2021
2. As of June 30, 2021
3. As of December 31, 2020
Additive Manufacturing, or 3D Printing, is a disruptive technology that is revolutionizing manufacturing worldwide.

PrintRite3D® IPQA (In-process Quality Assurance) is a critical catalyst to crossing the chasm from prototyping to industrialization.

Technology leadership, First Mover advantage, and a Business Model to recurring revenue and profitability.
Promise of 3D Metal Printing

- Design freedom
- On-demand manufacturing
- Increased agility
- Increased customization and personalization
- Stronger, lighter and more durable parts
- Location agnostic
Throttling the Growth of 3D Metal Printing

51 per cent of respondents, the challenge lies in a lack of consistency. (PostProcess Technologies, 3D Printing Trends Report: Additive Post-Printing Survey 2019)

Quality assurance (QA) is so crucial that it is largely considered as the biggest obstacle to the widespread adoption of AM technology, particularly for metallic materials

Smartech Publishing

The industry needs to collaborate more vigorously on developing standards and best practices to ensure repeatable processes and high-quality results.
Metal 3D Printing Challenges

Virtually unlimited design possibilities

More metal powders and metal alloys

Over 50 3D metal printer OEMs. Multiple generations, multiple processes. Single, dual and quad laser machines

Post processing techniques and issues. Cost & time of inspecting after the fact. Expensive CT scans and destructive testing.

Many variables and no quality standards!
How Important is Quality?

- Space Exploration
- Defense Related
- Aerospace
- Oil and gas
- Automotive
- Medical
Mission Statement

To accelerate the adoption of Additive Manufacturing by setting the standard for In-situ Quality Monitoring

Enable the Amazing
PrintRite3D – Detects Defects Real-time

- Lack of fusion
- Spherical porosity
- Key holing
- Inclusions
- Gas flow variation
- Re-coater interaction
- Short feed
- Insufficient support structure
• Temperature Monitoring and Calibration
• Neural Net Machine Learning
• Recoater Interaction Detection
• Machine Learning Predictive Models
• Multi-Laser Quality Metrics
• Production Framework
• 3D Visualization Diagnostics
• User Roles and Login
PrintRite3D® - Key Differentiator
Operates With the Major 3D Metal Printers
Compelling Reasons to Buy

- Significant Need
- Time and quality are more important than dollars
- Competitive Threats
- Industry Imperative – Increased focus on standards
Marketing Focus

Challenges:

» Current methods for qualifying and validating parts in AM processes are slow and expensive.

» Quality control at post-manufacturing is ineffective at detecting defects and ensuring part performance.

» Post-process inspection can be expensive, time-consuming, and complex.

Takeaways:

» Sigma Labs is an essential part of the AM industry's adoption of regulatory compliance and quality assurance solutions.

» The AM industry is focused on developing and implementing cost-effective, efficient, and comprehensive solutions to advance AM standards and drive parts and material performance.

» The AM industry will benefit from a unified approach to quality assurance that ensures part performance and reduces risk.

» Sigma Labs is a leader in the AM industry and is committed to providing innovative solutions to meet the challenges of AM standards.

How AM Quality Standards Can Benefit Our Journey to Mars!
NASA's Exploration and Commitment to Quality Manufacturing

In this Paper:

» Well-Defined Quality Assurance Standards Can Be a Game-Changer in the AM Standards Framework

» NASA Additive Manufacturing

» New Approaches to Understanding AM Process & Quality

» Testing with Limitations: Benefits and Risks

» From Certified Process Monitoring to In-Process Quality Control

» Enabling a Robust AM Ecosystem

» About Sigma Labs

The Important Role of a Quality Management System in Additive Manufacturing

In this Paper:

» Introduction: How QMS Can Improve Efficiency and Compliance

» Quality Management System System Perspective

» The Role of ISO and AS9100 Standards

» The 3D Printing and Additive Quality Assurance System

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• Increased regulatory and competitive pressure creating compelling need for in-situ monitoring
• Initial contracts in-house
• Additional contract awards awaiting final Purchase Orders
• Potential for backlog going into 2022
• Revenue will still be bumpy, but overall activity continues to increase

Exciting time for Sigma Labs and the entire AM industry!
Phase I – Technology Validation – Every Contract an Adventure

- Integrated HDWR/SW system
- Collaboration with standards organizations
- Retrofit on OEMs printers
- Research Organizations, Universities and Early Adopters
- Primarily for research and prototyping
- Sold to the retrofit market
Phase II – Revenue Leverage and Lower Cost of Sales

- OEM partners beginning to drive independent revenue streams
  - PrintRite3D Ready
- Delivering PrintRite3D on known OEM platforms
  - EOS, SLM, Renishaw, GE Concept Laser, etc.
- PrintRite3D purchased simultaneously with printer
- Move from selling perpetual licenses to a subscription-based model
Phase III – Recurring Revenue Model with Increasing Gross Margin

- OEMs will take over provisioning of hardware
- Moving towards PrintRite3D as embedded, non-optional feature
- Recurring revenue streams
  - OEM
  - Retrofit Market Subscription Pricing
  - Maintenance
  - Professional Services
- Additional OEM partnerships spanning materials and processing
Every 5% of the 3D metal printer market is equal to approximately $10m / year to Sigma
Barriers to Entry

Multiple Technology Disciplines
Decade of Research

- Software Engineers
- Hardware Engineers
- Machine Learning
- Statisticians
- Material Scientists
- Graphical User Interface Engineers
- Process Engineers
- Electrical Engineers

Intellectual Property

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These patents encompass the fundamental technology underlying Sigma Lab’s melt pool process control, data analytics, anomaly detection, signature identification, & future “closed loop control” of 3D metal printing.
Summary

- Technology continues to be validated on many fronts
  - End Users, Universities and R&D, OEMs, and International Standards Organizations
- Focus on Verticals with Industry Imperative and Compelling Need
  - Increased activity
  - Growing pipeline
  - Initial contracts
- Need for in-situ monitoring continues to gain industry support
  - Federal Government – NASA, DOD, DOE
- Executing on a three-phase business model that will result in recurring revenue streams and increasing gross margins
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