

# Summit Consulting

<u>Team Member Name</u>	<u>Year</u>	<u>Major</u>
Member 1: Michaela Bianco	Senior - 2025	Marketing
Member 2: Don Darcangelo	Junior - 2026	Public Administration
Member 3: Ethan Ward	Junior - 2026	Finance

**Advisor(s):** Eddie Armbrister

**Topic Title:** Corporate Transparency Reimagined: AI Solutions for Sustainability Management

**Audience:** Boeing Board of Directors

## Sustainable Development Goal

**SDG #9:** Build resilient infrastructure, promote inclusive and sustainable industrialization and foster innovation.

## Executive Summary

Boeing, a global leader in aerospace manufacturing, is facing challenges in operational efficiency, sustainability, and cost reduction. In 2018 and 2019 alone, two fatal crashes with 737 Max aircraft killed 346 passengers. Riddled with quality control incidents, a 71% decrease in plane orders, and a stock drop of 40% over the past five years, the company, and the overall aviation industry, is pressured to improve quality while maintaining profitability. To address these challenges is the opportunity of Agentic AI—an advanced form of AI capable of autonomous decision-making. We recommend that Boeing implement Agentic AI into their operations management processes, specifically addressing their manufacturing, supply chain, and maintenance and fleet optimization, to result in improved operational efficiency, quality, and sustainability.

Even though Boeing has begun exploring the use of AI in their processes, the company continues to struggle to regain footing both financially and ethically. They have experienced negative free cash flow of \$14.3bn for 2024, compared to the \$4.4bn it generated in 2023. The aircraft manufacturer is in need of a holistic approach that can improve the bottom line and boost shareholder confidence, as they haven't surpassed their all-time high stock closing price of \$430.35 from 2019. By utilizing Agentic AI systems and controls, Boeing would be able to optimize its manufacturing, supply chain, and maintenance operations safely, efficiently, and sustainably. Improvements in these areas could potentially reverse a faltering corporate reputation, safety concerns, and negative profitability. As industries adopt Agentic AI through outcome definition, insertion point identification, and closed-loop feedback, Boeing has a prime opportunity to innovate and take a step towards improved operational standing and quality control. In an industry where operational resilience, cost efficiency, and environmental responsibility are more crucial than ever, Boeing's embrace of Agentic AI represents not just a technological upgrade but a necessary business transformation that ensures long-term sustainability, profitability, and safety for its customers.