



# MSG Group

## *Transforming Aircraft Servicing Into a Revenue-Generating Aviation Infrastructure Platform*

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Automated Aircraft Washing • Engine Washing • De-Icing • De-Sanding • Future AI Inspection

Supported by global aviation growth, ESG requirements, rising labor costs and increasing pressure to reduce aircraft downtime.



# WHY AVIATION NEEDS CHANGE

## Global Aviation Challenges

 Rising fleet sizes worldwide

 Increasing fuel costs

 ESG and sustainability requirements

 Water conservation regulations

 Labor shortages and rising wages

 Aircraft downtime reducing profitability

## MSG Opportunity

MSG Group has developed a fully automated aviation servicing platform designed to address these industry challenges while creating new revenue opportunities for airports, airlines and MRO operators.

2024 Market Size

**USD 1.2 Billion**

2033 Market Size

**USD 2.1 Billion**

Forecast CAGR

**7.5%**

## Key Growth Regions

 Asia-Pacific  North America  Europe  Middle East

*"The aviation industry is investing heavily in automation, sustainability and operational efficiency — creating a strong market opportunity for MSG Group."*

# ONE PLATFORM — MULTIPLE REVENUE STREAMS

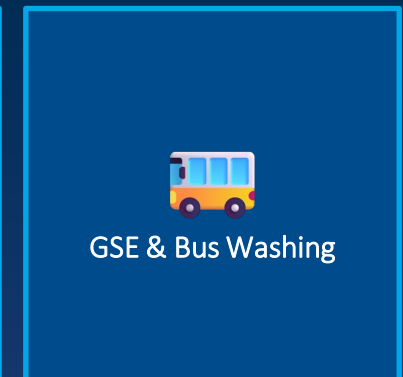
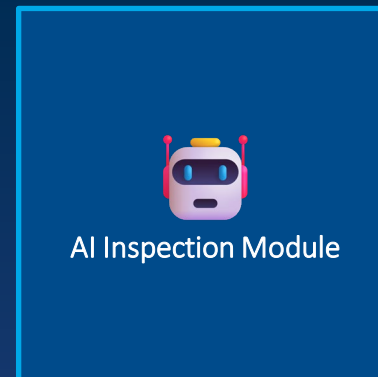
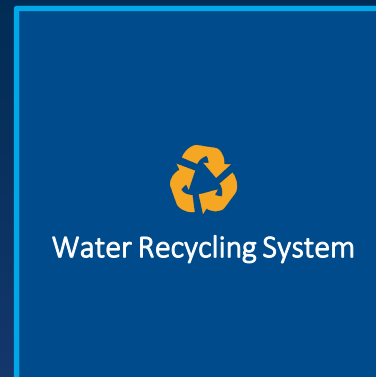
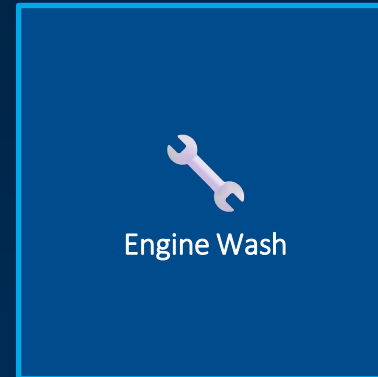
*A single automated solution covering every ground servicing need*

## Current Services

- ✓ Aircraft Washing
- ✓ Engine Washing
- ✓ De-Icing
- ✓ De-Sanding
- ✓ GSE Cleaning
- ✓ Airport Vehicle Cleaning

## Future Expansion

- ✓ AI Inspection
- ✓ Predictive Maintenance
- ✓ Digital Aircraft Health Monitoring



# PERFORMANCE ADVANTAGES

*Industry-leading technology with unmatched performance metrics*

Performance Indicator	Traditional	MSG Model
Exterior Wash	4-8 Hours	Approx 20 Minutes
Engine Wash	Several Hours	55-90 Minutes
Manpower	8-12 Staff	2 Staff
Water Use	3,000-10,000 L	300 L
Downtime	High	-95% to -99%

# AIRCRAFT WASHING AS A PROFIT CENTER

*From cost center to high-throughput revenue generator*

## Traditional Model

- ✗ Labor Intensive
- ✗ Cost Center
- ✗ High Downtime
- ✗ Low Throughput

## MSG Model

- ✓ Revenue Generator
- ✓ Automated
- ✓ High Throughput
- ✓ Additional Services

## Revenue Streams:

- Aircraft Washing
- Engine Washing
- De-Icing
- De-Sanding
- Future AI Inspection

*Saving resources with closed loop technology*

Traditional Wash

**3,000 – 10,000 Liters**

MSG Wash

**Approx. 300 Liters**

## Closed Loop Technology

- ✓ Water Recycling
- ✓ Minimal Discharge
- ✓ Reduced Environmental Impact
- ✓ Supports ESG Objectives
- ✓ Supports Airport Sustainability Programs

# CLEANER AIRCRAFT = LOWER FUEL COSTS

*Aircraft contamination creates drag and reduces efficiency*

## Key Benefits

- ✓ Up to 2% fuel savings
- ✓ Lower CO<sub>2</sub> emissions
- ✓ Reduced operating costs
- ✓ Improved sustainability performance

## The Financial Impact

*"For large airlines, even a small reduction in fuel burn can generate millions of dollars in annual savings."*

# TARGET CUSTOMERS

*Delivering value across the aviation ecosystem*



Airlines



Airports



MRO Facilities



Ground Handling Companies



Military Aviation



Strategic Investors

*A compelling and scalable revenue model*

USD 1,275

Revenue  
per Wash

USD 275

Variable  
Operating Cost

USD 1,000

Net Profit  
per Wash

Up to 2%

Fuel Savings  
from Clean Surfaces

95–99%

Downtime  
Reduction

Estimated Payback

**18–36 Months**

## Additional Benefits

- ✓ Fuel Savings
- ✓ Reduced Labor Cost
- ✓ Water Savings
- ✓ Additional Service Revenues
- ✓ Increased Aircraft Availability

# PROFITABILITY & CAPACITY MODEL

*High-yield revenue generation with scalable deployment*

## Customer SLA

24 Aircraft / Day  
8,760 Aircraft / Year

**USD 8.76 Million Profit**

## Maximum Theoretical Capacity

48 Aircraft / Day  
17,520 Aircraft / Year

**USD 17.52 Million Profit**

**CAPEX APPROX. USD 20 MILLION**

**PAYBACK 18–36 MONTHS**

*Next-generation capability — currently in development*

MSG Group plans to develop AI-powered aircraft inspection capabilities as part of its future technology roadmap, complementing its automated aircraft washing platform and expanding its range of intelligent maintenance solutions.

## Automated Surface Inspection

Full fuselage and wing surface scanning without manual intervention.

## Corrosion & Defect Detection

AI algorithms trained to identify early-stage corrosion and micro-cracks.

## Predictive Maintenance Support

Data-driven insights to schedule maintenance before issues escalate.

## Faster MRO Operations

Dramatically reduces inspection cycle time in MRO facilities.

# WHY NOW?

*Perfect timing for industry disruption*

- ✓ Global Fleet Growth
- ✓ Rising Labor Costs
- ✓ Water Restrictions

- ✓ ESG Requirements
- ✓ Airport Expansion Projects
- ✓ Demand For Automation

**MSG is positioned at the intersection of all major aviation growth drivers.**

*Massive ongoing investments highlight the need for scalable automated servicing*

Mega Airport Project	Estimated Investment	Operational Timeline
VN Long Thanh (Vietnam)	USD 16 Billion	Phase 1 in 2026
PH New Manila (Philippines)	USD 15 Billion	Phase 1 in 2028
AE Al Maktoum (Dubai)	USD 35 Billion	Phase 1 in 2030–2032
SA King Salman (Saudi Arabia)	USD 30–65 Billion	2030 Target
IN Noida (India)	USD 3.5 Billion	Phase 1 in 2026

# Contact Us

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### SEE OUR TECHNOLOGY IN ACTION

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