SMART TECHNOLOGY GREEN SOLUTIONS



Seed – Investment Opportunity

India's most Advance, Smart and Green Vacuum Technology based Waste Management Solution



# Integerspin is HERE! WELCOME TO NEW FUTURE



#### **Introduction Video Our HERO Product**

Play on You Tune



https://www.youtube. com/watch?v=fljWcbh vlrc







# **Executive Summary**

#### **Co-Founders & Advisors**

#### **Dynamic & Balanced Team with Strong Domain Experience & Expertise**





CEO Gaurav Tyagi (Sales & Marketing)

- B.Tech (Mechanical Engineering) , P.G.D.M
- 11 Years of Experience in Sales







CTO
Anupam Gangwar
(Research &
Development)

- M.Tech (Mechatronics & Advance Robotics)
- 13 Years of experience in Applications , R&D







Advisor Ameet Nandlaskar

# Innovesta Group Global Growth & Investment

- MBA(Exec), Bachelors in IT(CQU-Sydney), Engineering Diploma In Electronics
- 28+ years of Exp in Strategy & Transformation Consulting, Technology, Business Turnaround, Market Entry, Ex Accenture, TCS, IBM, Hutchison



MD Vijendra Yadav (Design & Project Execution)

- B.Tech (Mechanical Engineering)
- 14 Experience of Design & NPD







COO
Vikrant Chaudhary
(Operations &
Automation)

- B.Tech (Electrical & Electronics Engineering)
- 11 Years Experience in Programming & Control







Advisor Atul Kulkarni

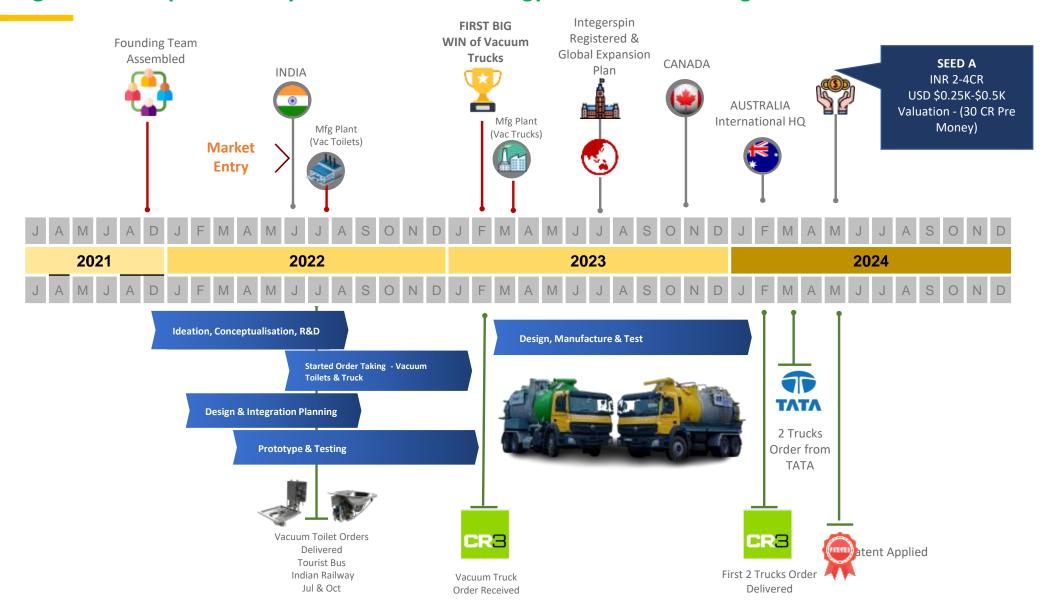
#### **Industry & Gov Advisor**

- MBA Mumbai University, BE (Chemical Engineering)
- Current Board Member IIM Shillong, Director – Eurasia SPL TECH (Defense Supplier), National VP – Yachting Club of India,
- Ex CEO Chowgule Ports, Deloitte, Advisor: Ministry of Shipping, Gas Authority of India, Indian Ports Association,

# **Integerspin Journey & Key Milestones**



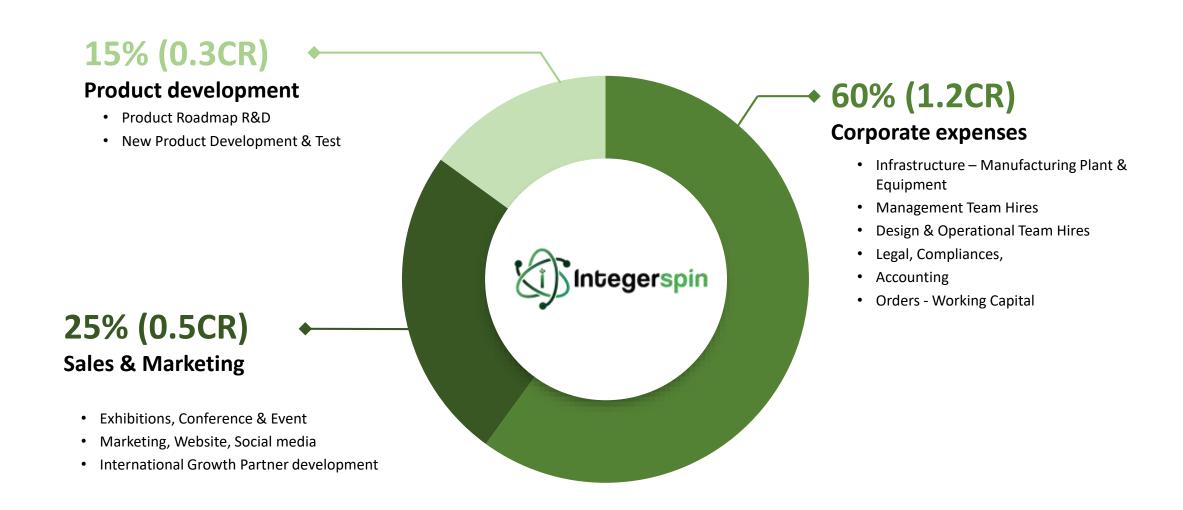
#### **Evolving as India's Top Global Player in Vacuum Technology Based Waste Management**



# The ASK Seed A – Capital Funding Roadmap



Equity Round of INR 4CR, Pre Money-Valuation of INR 30 CR. INR 2CR Committed.



# **Early Traction**



Net Revenues for FY24: INR 1.82 Crore

Order booked for FY24-25: INR 10 Crore

Overall Opportunity Pipeline: INR 43 Crore

Fund raised : Bootstrapped

• Patent: Applied for CombiVac Spin (Vacuum Truck for Dry and Wet) & To be applied for Vacuum Toilet

#### **Highlighted Clients**









#### **Clients in Pipeline**









#### Supported by





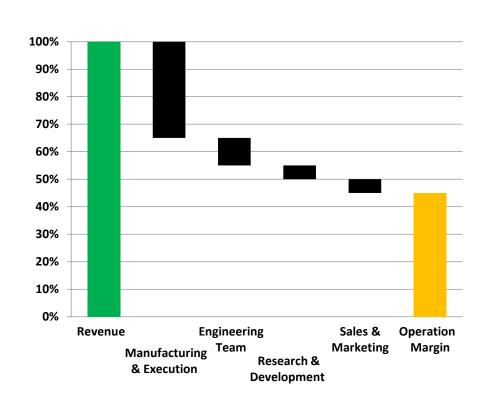




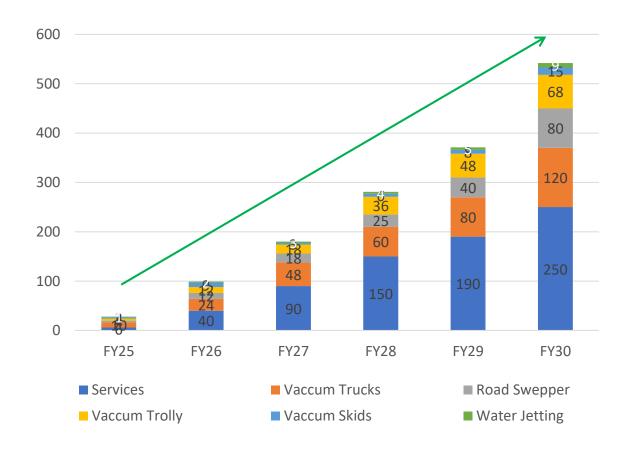
## **Unit Economics & Forecasts**



#### Unit Economics – 45% Gross Margin



#### 6 Year Forecast – Approx 550Cr Revenue



## **Our Markets**

# Integerspin

#### **Our Current Offices, Key Target Markets & Expansion Plan**



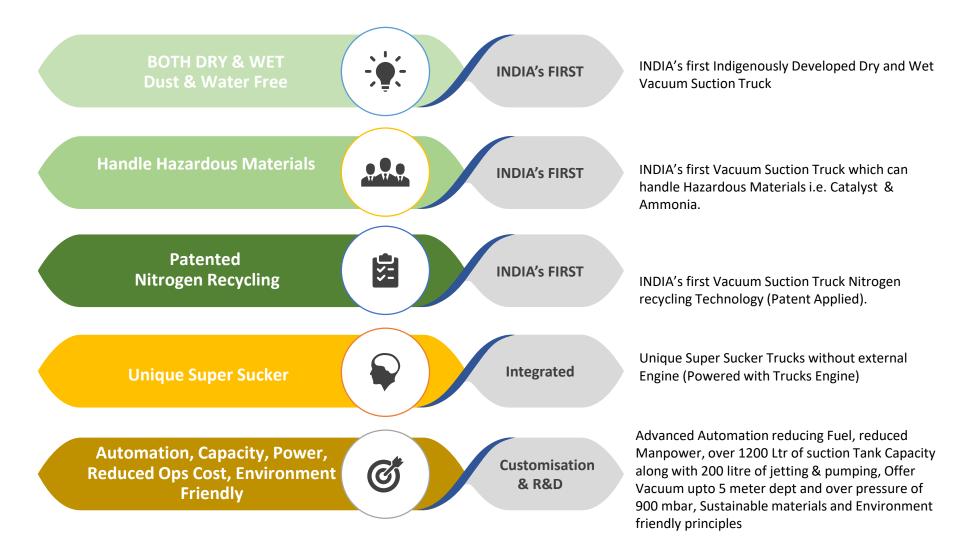
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# Integerspin Technology, USP's & IP's

#### **High Level Product USP's & Patented Technology**







# **Integerspin Vs Competition**



## **Integerspin remains most Advance & Complete Waste Management Solution**

	Vacuum Truck					Vacuum Toilets	Road Sweeper	Industrial & Petrochemical Waste	Nitrogen Recycling System	Pricing	Home Country/ Factory	Current Turn Over & Next Year Forecast	Founded
	Combi (Wet N Dry)	Solid (Dry)	Liquid (Wet)	Sewer Suction with Recycler	Normal Super Sucker (Limitations)								
Integerspin						•					Noida-India	1.9CR/10Cr	2023
TPS	0					0		0	0	•	Bhiwadi- India	200-300 Cr	1985
Evac	0	0	0	0	0		0	0	0		Germany	EUR\$141M	1975
PRYPIT we serve to conserve	0	0	0		0		0	0	0		Pune-India	200-300 Cr	2015
KAM-AVIDA	0	0	•			0		0	0	•	Pune - India	150-200 Cr	1994
KOKS						0	0				Germany (Not Selling in India)	EUR\$50M	1989
BUCHER	0	0	0			0		0	•		Switzerland (Not Selling in India)	EUR\$2800M	1807
WHALE	0	0	•	0	0	0	0	0	0	0	UK – Factory In India	EUR45M	2001

## **Customer Testimonials**

# Integerspin

#### **Customer Appreciation & Vacuum Truck in Action!**

https://www.youtube.com/watch?v=elMAJ2S48Lc









"We are impressed with Integerspin technical capabilities, they are going to provide us customised vacuum truck for road cleaning"







"Integerspin delivered beyond expectations on quality and product value add for our use case"



"We were looking for a solution for mud suction and visited Integerspin from Oman, it is worth it for us. We are quite interested in Solid Vac Spin truck"

# **How we delivered Beyond Customer Expectations**







**Happy Customer** 

#### CR3 - "Rajesh Kumar" Plant Head

"We contacted every vacuum truck manufacturer in India but they could not manufacture vacuum trucks of our special refinery application as we wanted to use the same in hazardous applications.

We met with the Integerspin team and found them confident about our requirements. After several meetings and discussions with our team from many countries we decided to go with Integerspin and raised order of two vacuum trucks"

**Design Started** 



**Truck Chassis Delivered** 



**Chassis Modifications** 



**Fabrication Started** 





**Sleepless Nights** 





**Assembly Started** 





**Dreams getting shape** 





Ready to Deliver









# Problems, Challenges & Solution For Global Waste Management Industry

# **Challenges in Waste Management Industry**

#### **India and Global Regions**



# Sewage , Road, Garbage (Waste Management Solutions - Truck Mount Based)



Manual Scavenging (India & Undeveloped Nations)



Industrial Hazardous Material



Low Quality Products with minimum features at high cost



Environmental Pollution due to brush-based road sweepers



No End-to-End Player with Advanced Technology



Underserviced Existing and New Segments & Industry Use Cases



High Production &
Manpower Cost
Low Skills & Investment
on R&D



Industrial Hazardous Material



Higher Delivery Timeframes



High Maintenance Cost



EMEA –Expensive Dominated by EU & USA players. Unreliable Chinese products



Zero or Low Customisation & Innovation appetite & skills

#### **Vacuum Toilets**

#### Limited Availability of Water & Advance Sewage Disposal & Pipping



**Trains** 



**Buses & Caravans** 



Marine & Cruise



Tall Residential Towers & Industrial Parks



**Portable Toilets** 

## The Solution- Answer to Challenges



Introducing India & World's most advance, smart and Green Vacuum Technology based Waste Management Solution





## **Comparison Between**

## Normal Super Sucker Vs CombiVac Spin





- 3 Trucks required
- Tank capacity of 3 trucks 14000 Ltr
- Operator required for 3 trucks
- Vacuum capacity upto 500 mbar
- Vacuum depth upto 5 meter
- Noise level is very high 80 DB
- Super sucker can not work as dump truck



- 1 truck required
- Tank Capacity of 1 truck upto 14000 Ltr
- Operator required only for one truck
- Vacuum Capacity upto 900 mbar
- Vacuum depth upto 10 meter
- Noise level less is very less 63 DB
- Our super sucker can be used as dump tanker as well and work individually to create vacuum in other truck

## **Truck and Non Truck Products**

## **Complete & Customised WASTE Management Solution from ONE Manufacturing Facility**















## The Solution - Add on Products & Services

#### **Leveraging Same Clients and Industry Buyers**



#### **The Future Technology Products**

Pipeline Dredging and Desliting









Heat Exchanger Tube & Tanks Cleaning



Marker Line Removal

# Truck & Vacuum Based Industry Solutions



Normal & Specialty(E.g Airports) Fire Trucks



# Garbage Collection Trucks & Compactor

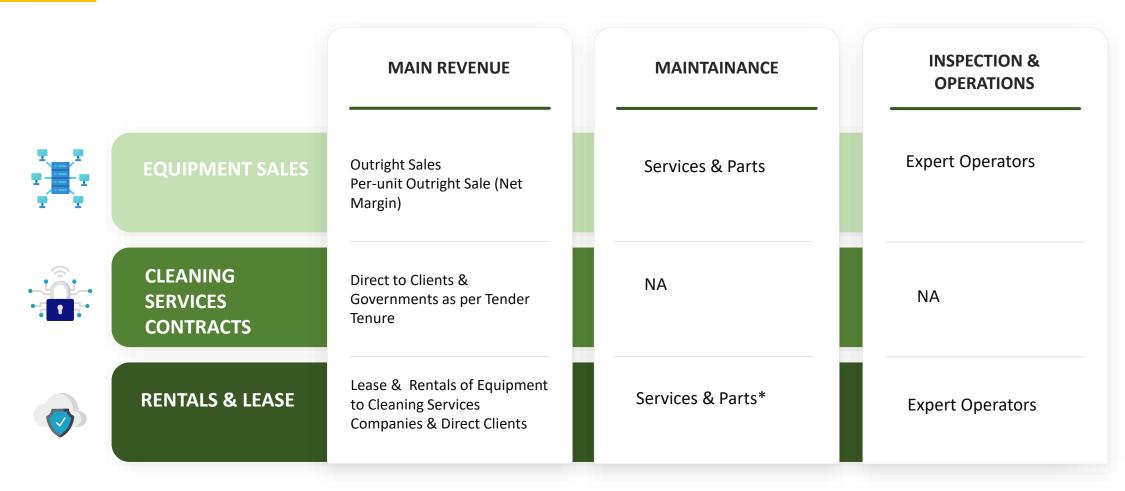




## **Revenue & Business Model**



#### **3 Baseline Revenue Models**



**Product Sales, Managed Services & Consulting – Both Direct to Clients & Via Partners** 

# **Future Technology Roadmap & R&D**

#### **Innovate on current Products and Add New Products**



#### **IOT & Apps**



- IOT enabled machines
- Online troubleshooting & modification possible
- Data dashboard for customer like waste collected, working hour, fuel monitoring, operators details etc.

# GEN.AI & Machine Learning



 Future planning to launch AI module with Robot for tank and sewer internal health inspection & monitoring and report generation

# **Scale & Cost Optimisation**



- Purchase cost optimisation upto 20% by advance planning
- Manufacturing cost optimisation by own manufacturing setup upto 15%

#### **Add On Products**



High pressure
 water jetting
 machines developme
 nt for sewer and
 industrial application
 upto 35000 psi

#### **Robotics**



 R&D start for development of Industrial robot for tank cleaning and sewer line inspection applications





#### **Total Addressable Market**



**Market if for Product & Services Both** 

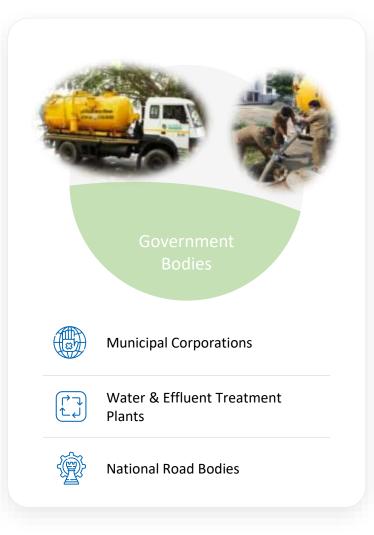


# **Understanding Market Segmentation**



# Integerspin

#### Wider Market Opportunities Globally – Direct to Clients & Via Partners







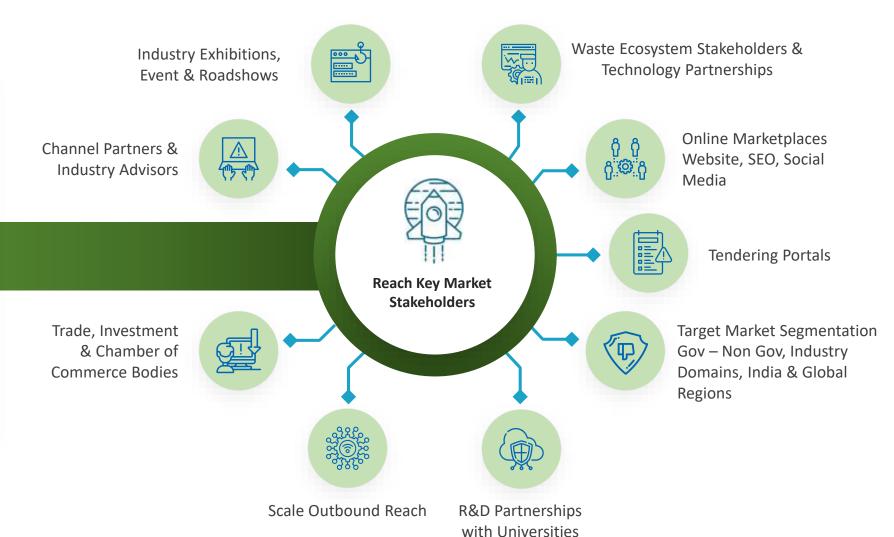
#### **Go-To-Market**

# Integerspin

#### **Marketing & Capturing Local & Global Markets**



Targeting both **Product & Services**Opportunities



# **Developing Global Partnerships**



#### **Global Government & Enterprise Contractors and Service Providers**



Cleaning Services Companies & Sales Companies

2

Gov & Non-Gov Trade & Investment Bodies

3

Technology & Waste Management Ecosystem Partnerships

- Regional & National Government Service Providers
- Medium-size Cybersecurity, IT Services, MSPs, SIs
- Global & National IT Resellers/ Distributors
- Strategic Advisory Network

- Technology, Process & GTM Partnerships with Waste Management Ecosystem Players
- GEN AI, IOT, Tech Companies
- Co-development

**Trucks Sellers, Cleaning Contractors & Services Players** 

**Technology & Vendors** 





## **Vacuum Toilets in Actions**

#### **Saving Water – Market Scaling Up for Vacuum Toilets**





https://ww w.youtube. com/shorts /Phf9NgGv WCs



https://www. youtube.com /watch?v=PH wxxdbGsg4



# Manual Scavenging still an Issue





The Prohibition of Employment as Manual Scavengers and their Rehabilitation Bill, 2012

Ministry: Social Justice and Welfare



# Manual Scavenging is completely Banned in India PEMSR Act 2013, 1993.

Due to which mechanized scavenging is emerging Integerspin is manufacturing vacuum trucks which is revolution in the market and capable to Handle Liquid, Solid, Hazardous, Non-Hazardous industrial waste.





# FRONTLINE The continuing shame of manual scavenging

The continuing straine of manual scavenging ladge 3026 cars to end the probles eight be just asolited in a ting like of balow promote.



Manual Scavenging | 'Generation After Generation These People Are Into This. What About Rehabilitation?' : Supreme Court Asks Centre

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