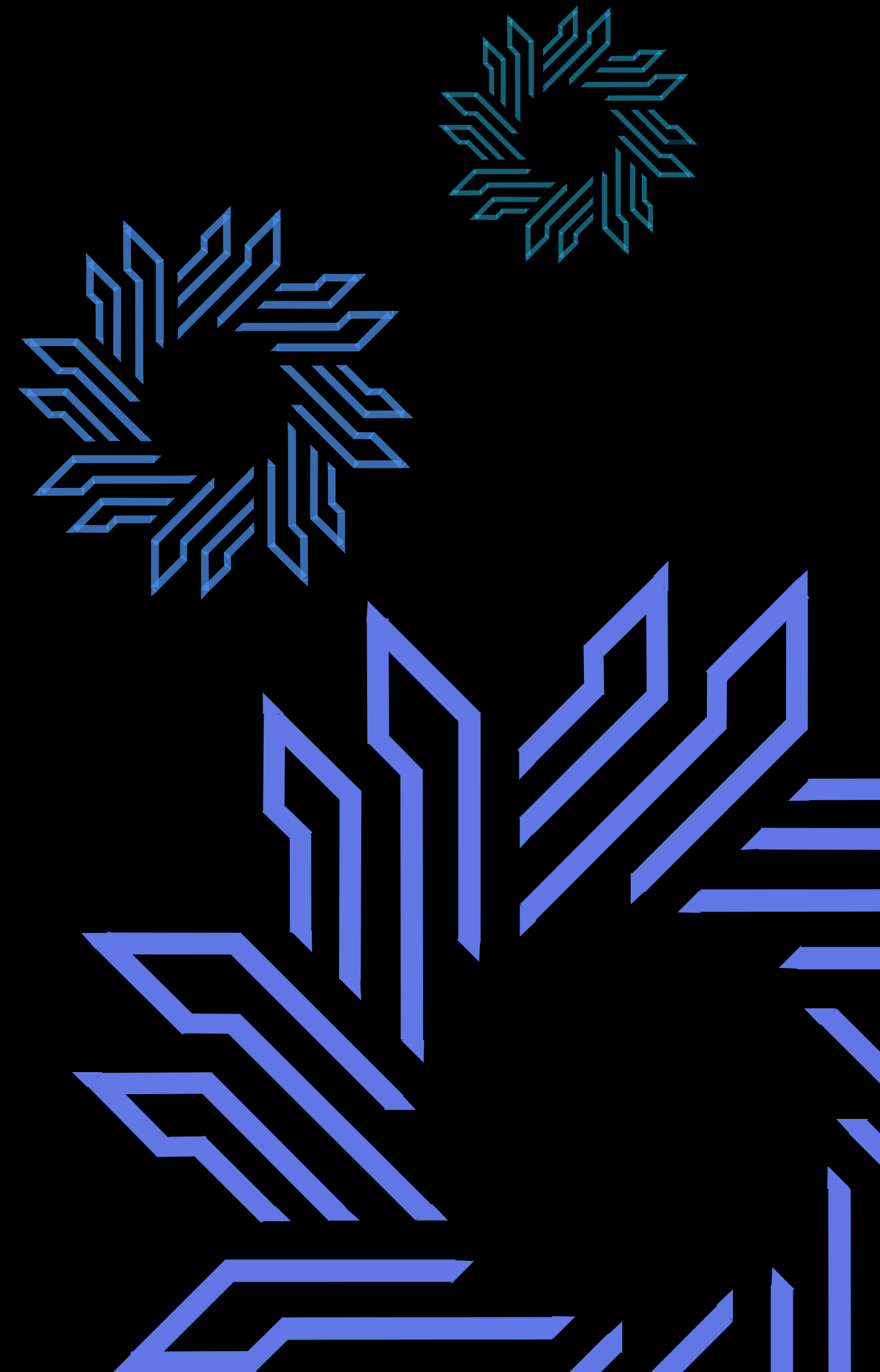


# VertiClean

Created By: Group 12

Captain: Jeel Kalaria

Vice Captian: Uday Maheshwari



# Introduction

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With skyscrapers literally touching the skies, did you realise how even the highest windows of these skyscrapers shine like a star?



# Problem

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With trembling legs and dangling lives, it's the humans who undertake this risk to make the windows shine.





According to the 2019-20  
Health and Safety Executive  
Report, 47% of the  
construction accidents occur  
due to falls from a height.

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# The window cleaner who fell from a skyscraper and lived

9 March 2017



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## Features



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## Worker o

Shubhra Pant / TN



The global window cleaning market is estimated to produce a revenue of 3500 million USD by the end of 2028.

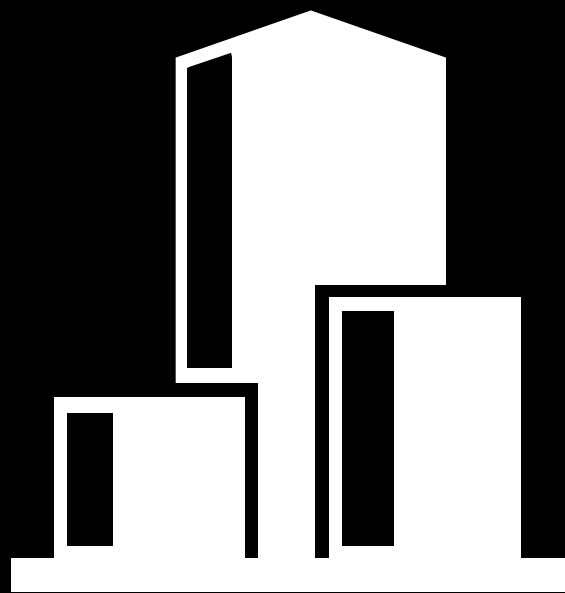
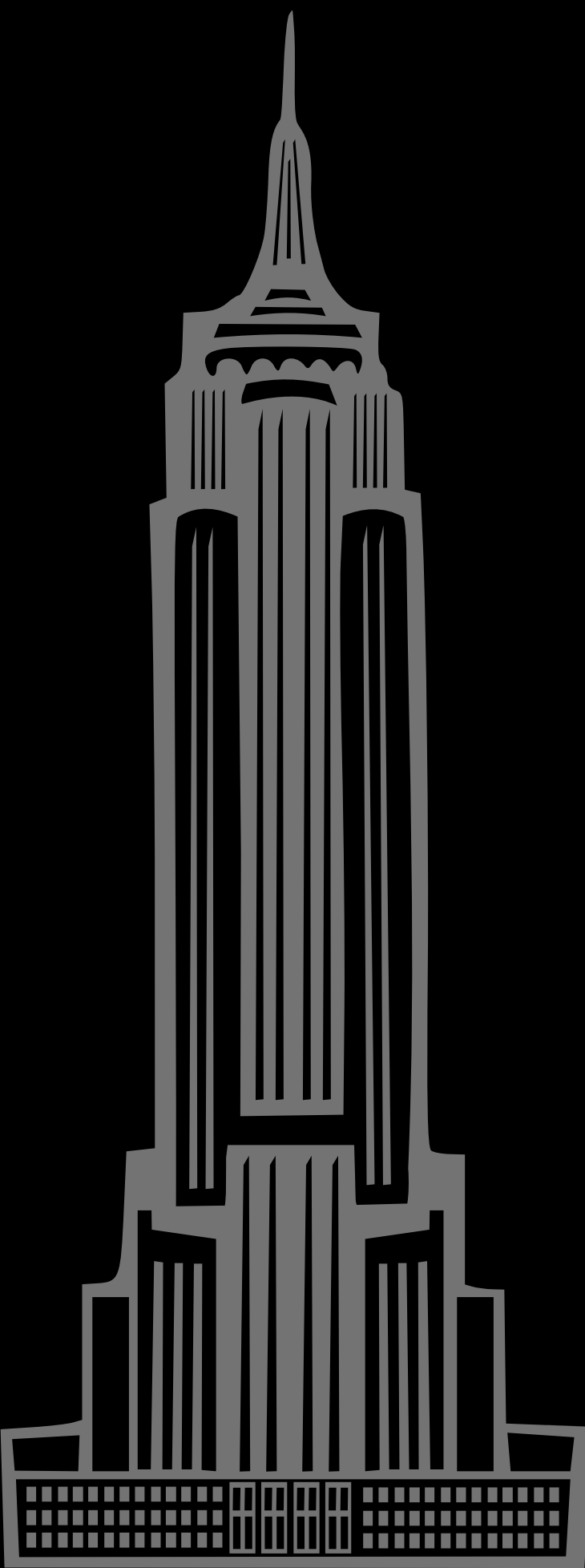
This results to a Compound Annual Growth Rate of 13.6% during the forecast period of 2020 to 2028.

# ● Existing Solutions ●

First few ventures into this field of cleaning robots used suction pumps which limited the mobility in case of uneven and non-airtight windows.

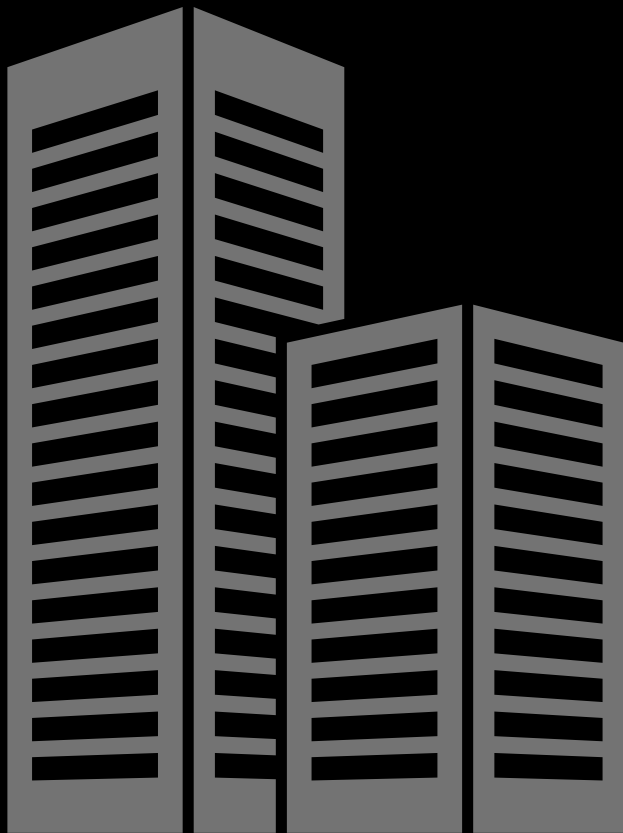
Over time , though the methods developed, cost became a problem which made the traditional methods a more economic solution.





# VertiClean

CLEARING VIEWS, TOWARDS A CLEARER FUTURE





# VertiClean

A Window Cleaning Robot



# ● Features ●



Low Power  
Consumption



Light-weight  
Aluminum  
Extruder Frame



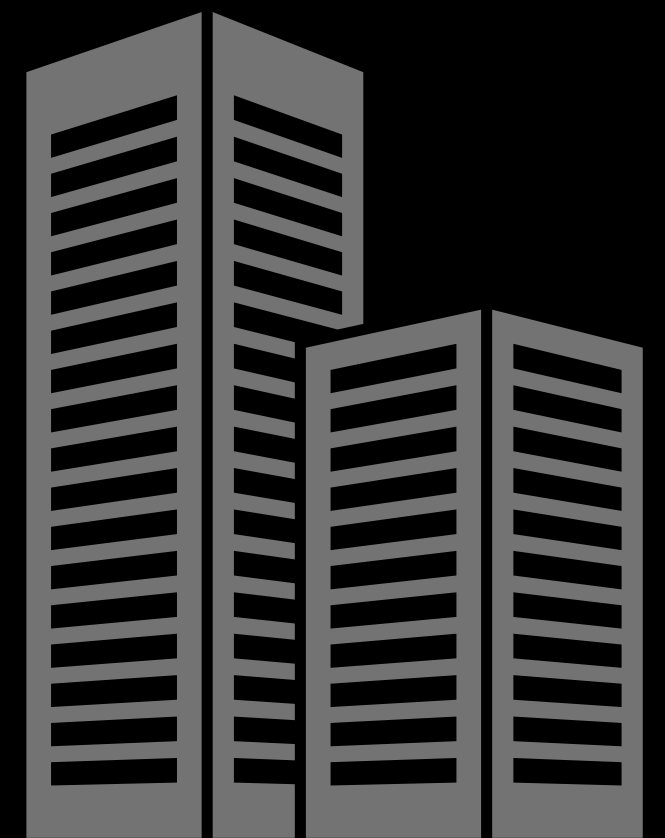
Can be used  
on multiple  
surfaces



Minimum water  
wastage



Efficient Pulley-  
Rope System



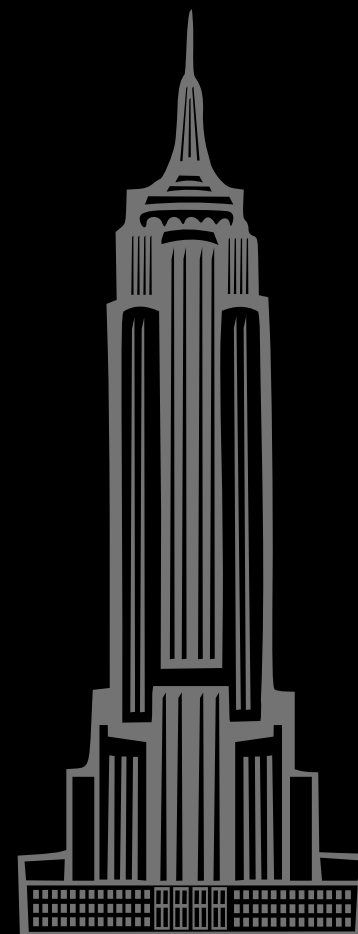
# Revenue Model

Our current business model is B2B, where we are aiming to sell our prototype to vendors who provide window cleaning facilities.



## Basic Model:

- Selling Price: Rs 15000
- Service Charges: Rs 1000 (every 3 months)

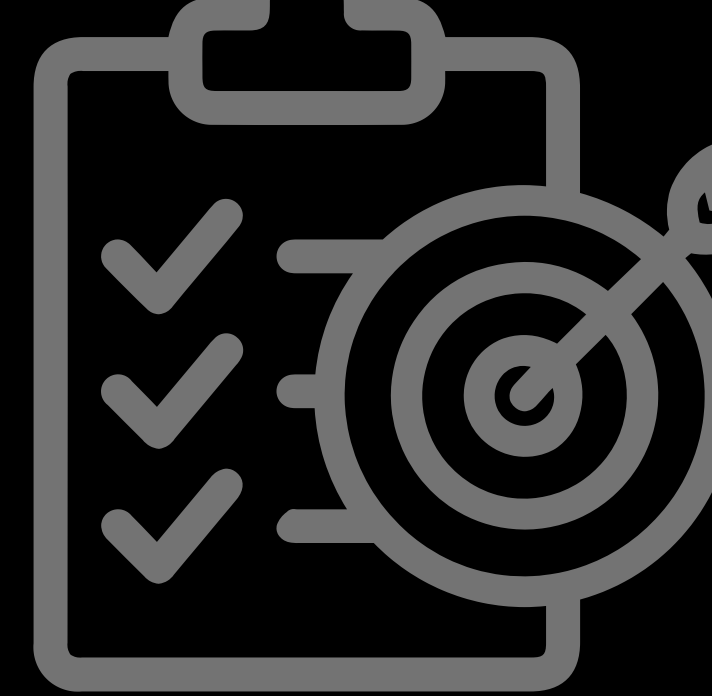


## Customised Model:

- Selling Price: Rs 15000 + Designing Cost
- Designing Cost: (As per the customer's demand)
- Service Charges: Rs 1000 + Additional Charges (every 3 months)



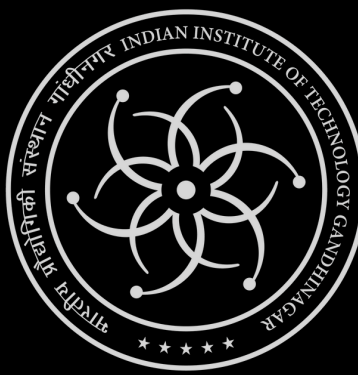
# ● Future Prospects ●



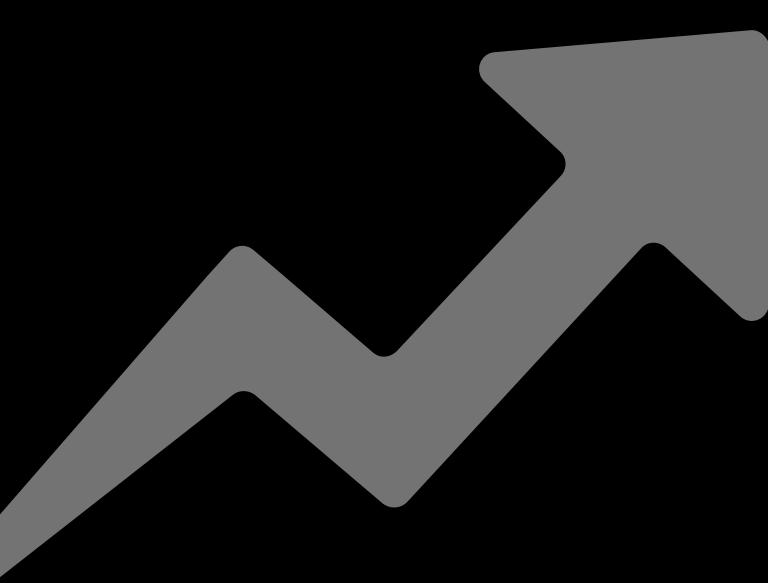
Addition of the Business to Customer component to our model

Customise our product according to building size and shape

Add a Lift-Shaft cleaning feature



**Thank You!**



# ● Timeline ●

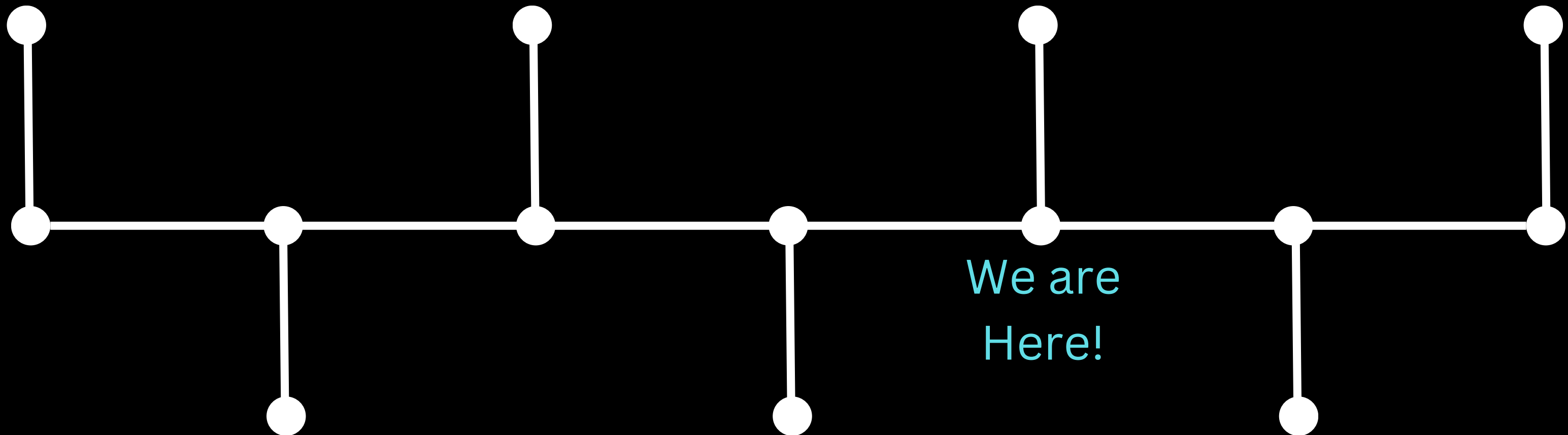


Ideation

Prototype Building

Web Development

Diversifying  
Product Range



We are  
Here!

Market Analysis

Business Model

Developing  
ML Model



# ● Our Team ●



Jeel Kalaria  
Civil Eng.



Uday Maheshwari  
Civil Eng.



Priyanshi Shah  
Mechanical Eng.



Goral Mashru  
Chemical Eng.



Nirjara Mehta  
Electrical Eng.



Hrishi Harsora  
Materials Eng.



Vivek Raj  
Electrical Eng.



Hriday Pandya  
Electrical Eng.



Dhairya Shah  
Mechanical Eng.



Parthiv Patel  
AI





# ● Our Team ●



Ginisha Garg  
Electrical Eng.



Prajas Kulkarni  
Materials Eng.



Pranav Thakkar  
Mechanical Eng.



Zagade Atharva  
Chemical Eng.



Chardiya Vanshribahen  
CSE



Yash Sonone  
Electrical Eng.



Aniket Mishra  
CSE



Tejas Lohia  
Electrical Eng.



Ridham Patel  
CSE



Charchit Sharma  
Materials Eng.





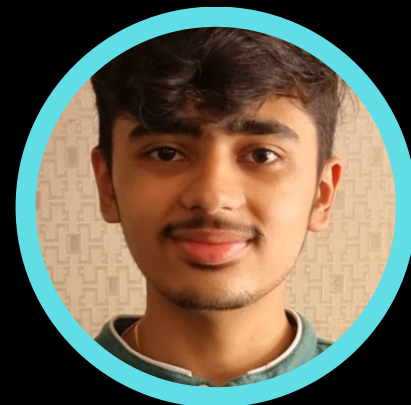
# ● Our Team ●



Shivansh Shukla  
Civil Eng.



Manan Chavda  
Mechanical Eng.



Soham Shrivastava  
AI



Akshat Shah  
CSE



Anuja Chaudhari  
Electrical Eng.



Yug Desai  
Mechanical Eng.



Ritesh Kumar  
Electrical Eng.



Suryarao Atharva  
Chemical Eng.



Jainil Devaliya  
Electrical Eng.



Romit Mohane  
Mechanical Eng.