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# SCHOLARSHIP PROJECT

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BRAHMANSH SHARMA

# BRIEF

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Design a vehicle or a whole mobility system appropriate/suitable for future urban scenarios. It must be conceived to be electric, autonomous driving and connected to transportation/surrounding infrastructures. Moreover, it must be catchy and funny for the user. Explain your idea creatively using the tools you are familiar with.




# HOW DOES IT WORK

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The concept is designed keeping in mind the autonomous technology of the urban scenarios and its surroundings. The concept can work on an ideal road width of 15 feet with separate pick up points.

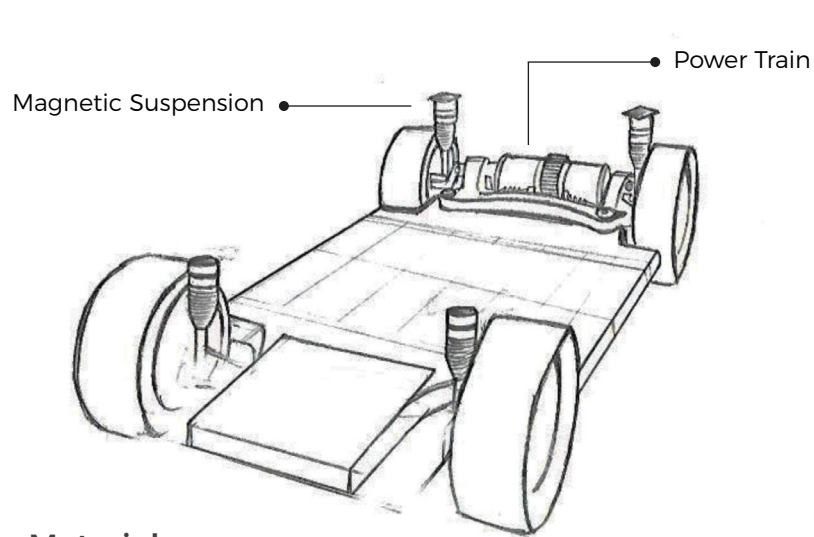
It will be an application run mobility services. It will consist of recliners with separate control panels attached to all local vendors and cafes.



I have taken inspiration from Volkswagen 1960's Hippy Vans, Mumbai BEST Buses, 1964 Volkswagen Bus Custom, 1967 Chevy Van. It was my motive to combine old-school ideology with my propaganda.

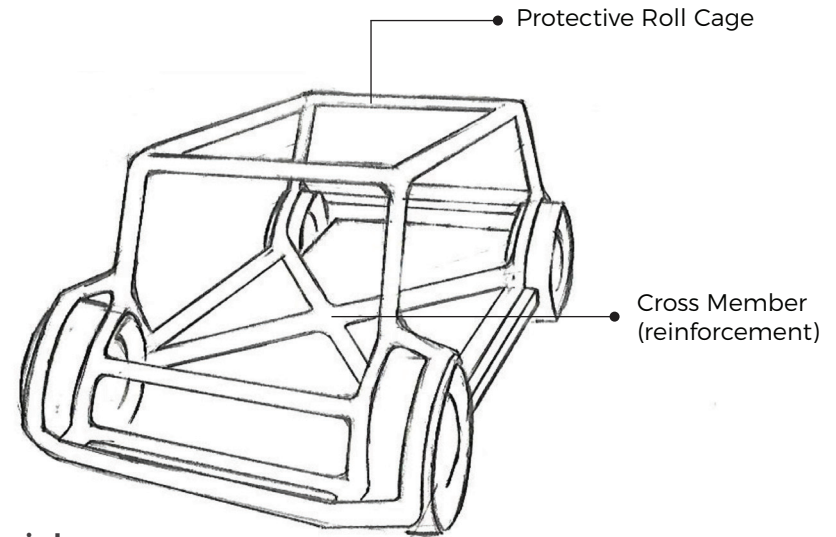


# FUNCTIONAL DYNAMICS



**Materials:**

6061 T6 Grade  
Aluminium Alloy  
(Chassy)



**Materials:**

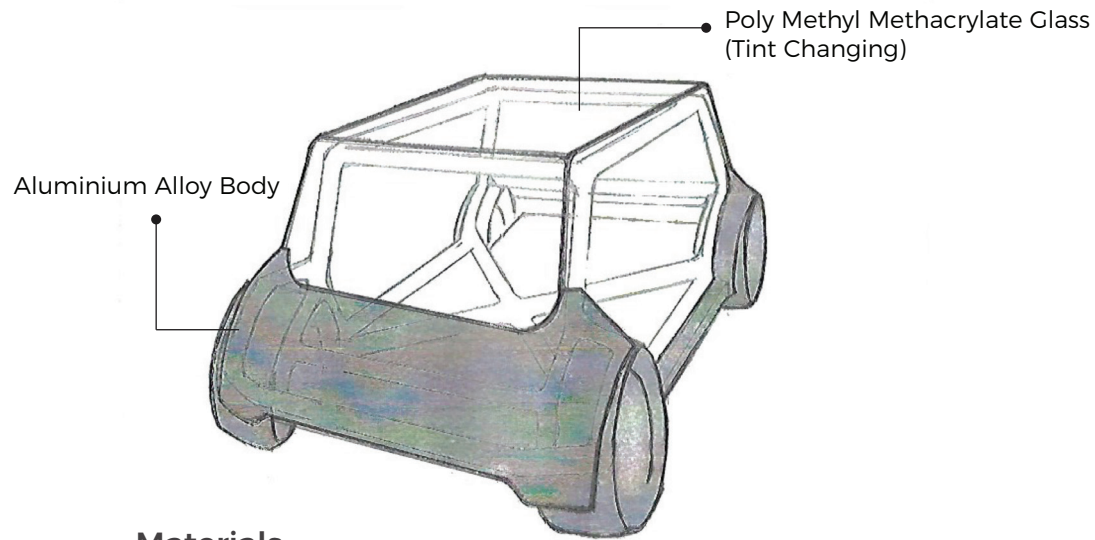
6061 T6 Grade  
Aluminium Alloy (Roll  
Cage)

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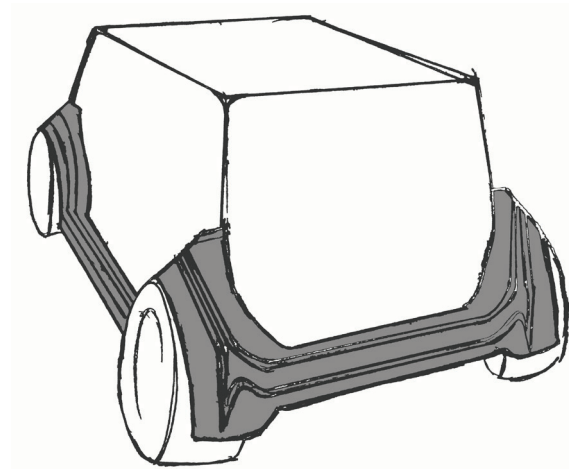
6061 T6 Alluminium Alloy is a precipitation hardened alluminium alloy. It provides superior weld strenght and workability. Magnectic suspension work as an alternative automotive suspension system. The protective roll cage and the cross member assures safety of the passengers in moments of distress.



# EXTERIOR DYNAMICS



**Materials:**  
Toughened Glass,  
Alluminium Alloy Body

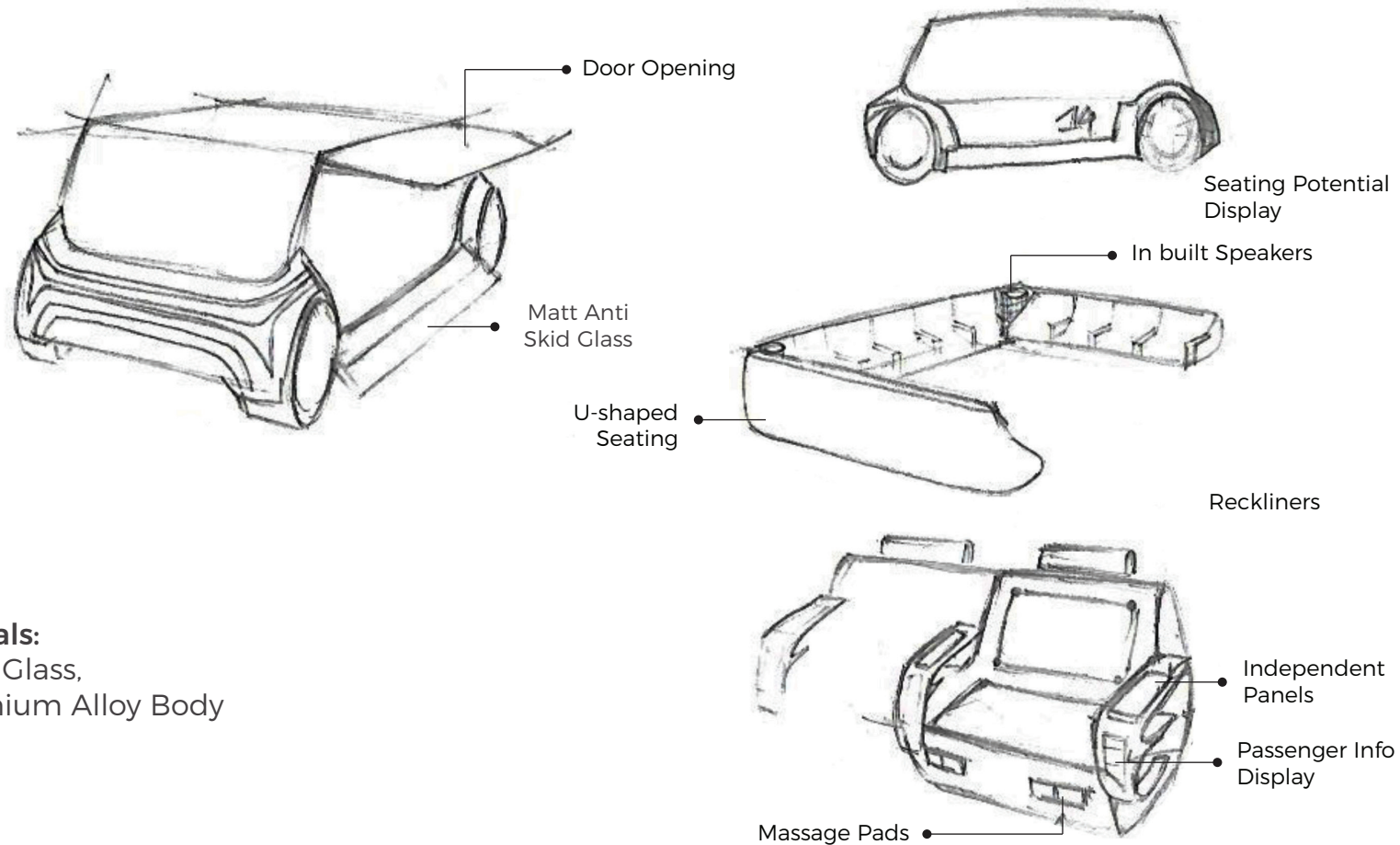


**Materials:**  
Alluminium Alloy Body

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This particular grade of alluminium alloy is used in manufacturing of aircraft components.

# INTERIOR ENHANCEMENTS



## Materials:

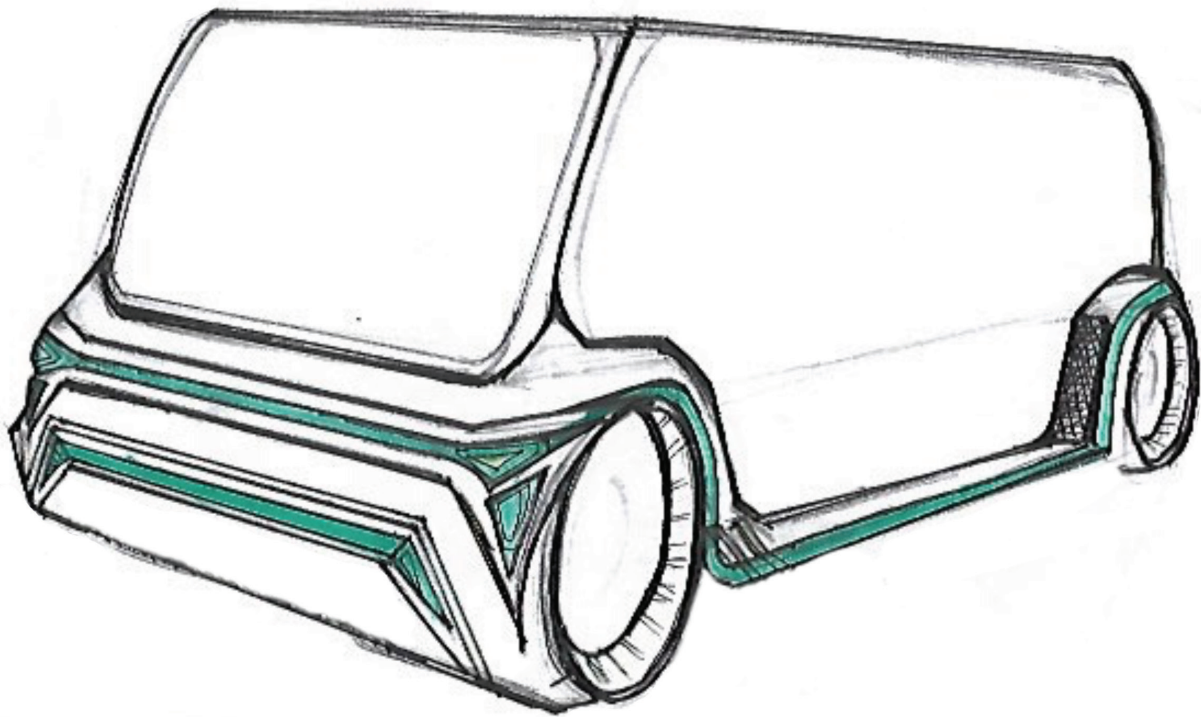
PMMA Glass,  
Aluminium Alloy Body

PMMA Glass is a material that is abundantly used by aircraft manufacturers for its strength and durability.

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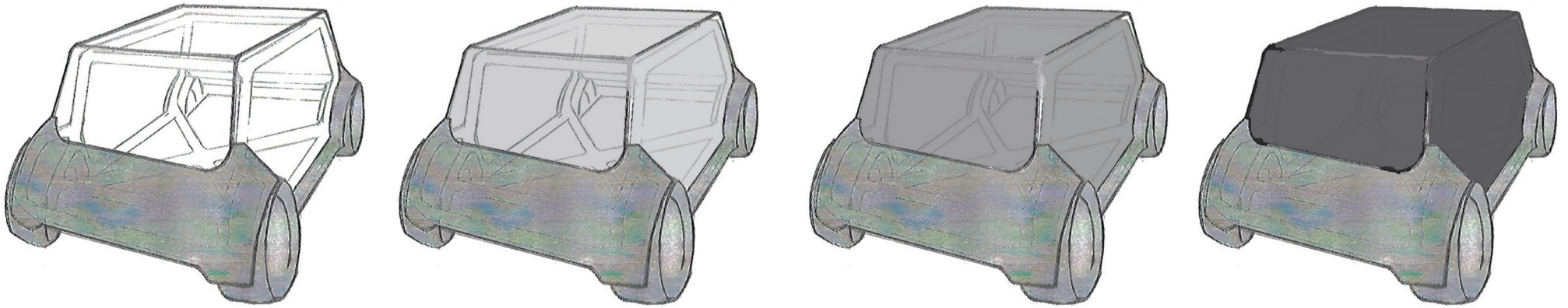
# CONCEPT

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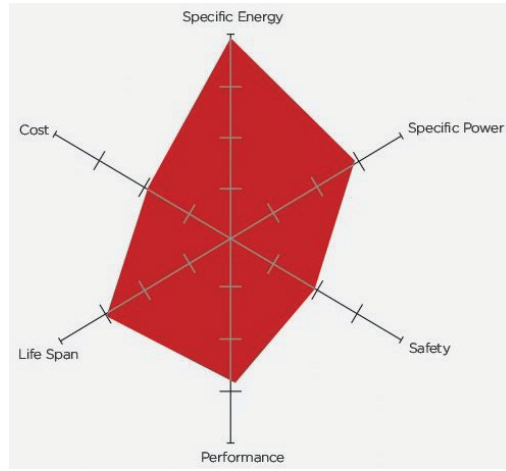
# FUNCTIONAL ENHANCEMENTS



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As the number of passengers increases, the tint gets darker indicating of potential seating.

# AUXILIARY ENHANCEMENTS



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## LITHIUM-ION BATTERIES

24kWh liquid cooled li-ion battery pack delivers upto 40miles with zero emission.

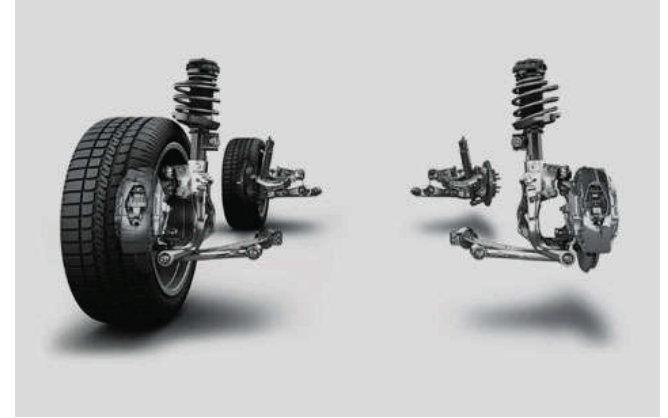
The batteries are located under a protective carbon fibre bed safely above the cross member giving the concept a low center of gravity for safe and smooth ride.



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## DRONE DELIVERY SERVICE

The independent panels are connected with all the local vendors and it can deliver any product with ease. The rooftop is fitted with a panoramic sunroof that helps with delivery on the move.

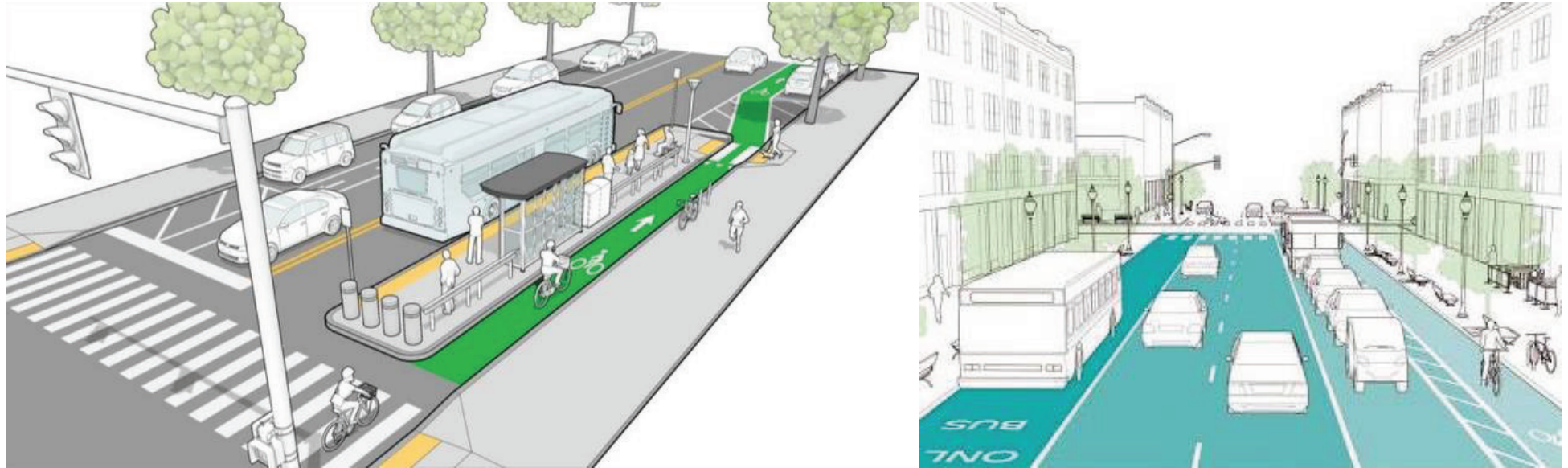


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## MAGNETIC SUSPENSION

They are alternative automotive suspension system that utilizes magnetically controlled dampers or shock absorbers for a highly adaptive smooth ride.

# MARKET OUTPUT



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The concept is adaptable in real life conditions of Silicon Valley, California. They have an arrangement of 15 feet separate corridor for public transportation.



**THANK YOU**

BRAHMANSH SHARMA