4. Ecosystem file

I/ Introduction

The implementation of our Segmobyl, an innovative vehicle prototype, in its urban environment has crucial importance, mainly because of the alarming realities we observe today.
Conventional vehicles, which currently populate our urban areas, contribute substantially to over 70% of nitrogen dioxide (NOx) emissions in these already fragile environments. Faced with this worrying reality, our hybrid vehicle, a fusion of the practicality of a small no-license car and the maneuverability of a Segway or e scooter, seems to be an interesting solution. Its aim is twofold: to considerably reduce polluting emissions while optimizing the use of public space.

II/ Key players for implementing the Segmobyl

To succeed our project, we are aiming to collaborate with several local partners. We are reaching out to the following groups:

- Communities/users: The communities and associations we are targeting are related to mobility and cities' dynamism. Their help in launching our vehicle, would allow us to gain visibility and also potentially have support from cities, associations and users.

➔ Plateforme Mobilité, La Rue créative, Made in archi made, Habiter autrement Auvergne

- Schools and Universities: We have contacted different universities in order to cross-check the feasibility of our vehicle and to start our prototyping phase.

➔ ESTACA, an engineering school with its headquarters located in Montigny-le-Bretonneux, France. This school amongst other trains automotive engineers. We had a group of 4 students helping us on the technical aspects of our second vehicle prototype (Segmobyl V2).

- Companies: MOVIN'On (MOBYL's key sponsor) is helping us to have a starting capital in order to organize ourselves. Furthermore, 4 prototyping tires will be given by Michelin. We are currently reaching out to other companies for sponsorships.

➔ MOVIN'on, Michelin, Duotts.

- Distribution: We will further reach out to Aixam, a company specialized in the manufacturing, sale and rental of license-free cars. And T2C, a Clermont-Ferrand's public transport network, where we are aiming to try out our vehicles.

➔ Aixam, T2C

III/ Link between the vehicle and its environment

This innovative Segmobyl V2 design will enable users to take advantage of the flexibility offered by the e scooter for the last few kilometers of their journey in the city. On reaching their destination, the vehicle will transform into a e scooter, offering agile, lightweight mobility to navigate the narrow streets of the city center, avoiding traffic jams and facilitating parking.

This intelligent integration of the e scooter into our electric vehicle will contribute to a more harmonious interaction with the urban environment, reducing traffic congestion and minimizing congestion in public spaces.
Furthermore, as far as parking is concerned, our vehicle will be able to park in small parking spaces to optimize existing parking spaces with a greater number of small vehicles: 2 Segmobyls V2 for a standard parking space. Finally, we plan to make public spaces more user-friendly by designing a low-emission electric vehicle, thus contributing to better air quality in the city. Our low-emission electric vehicle will guarantee an environmentally friendly driving experience.
By making a substantial contribution to reducing emissions, our prototype demonstrates our commitment to sustainable urban mobility, a significant step towards preserving our environment.