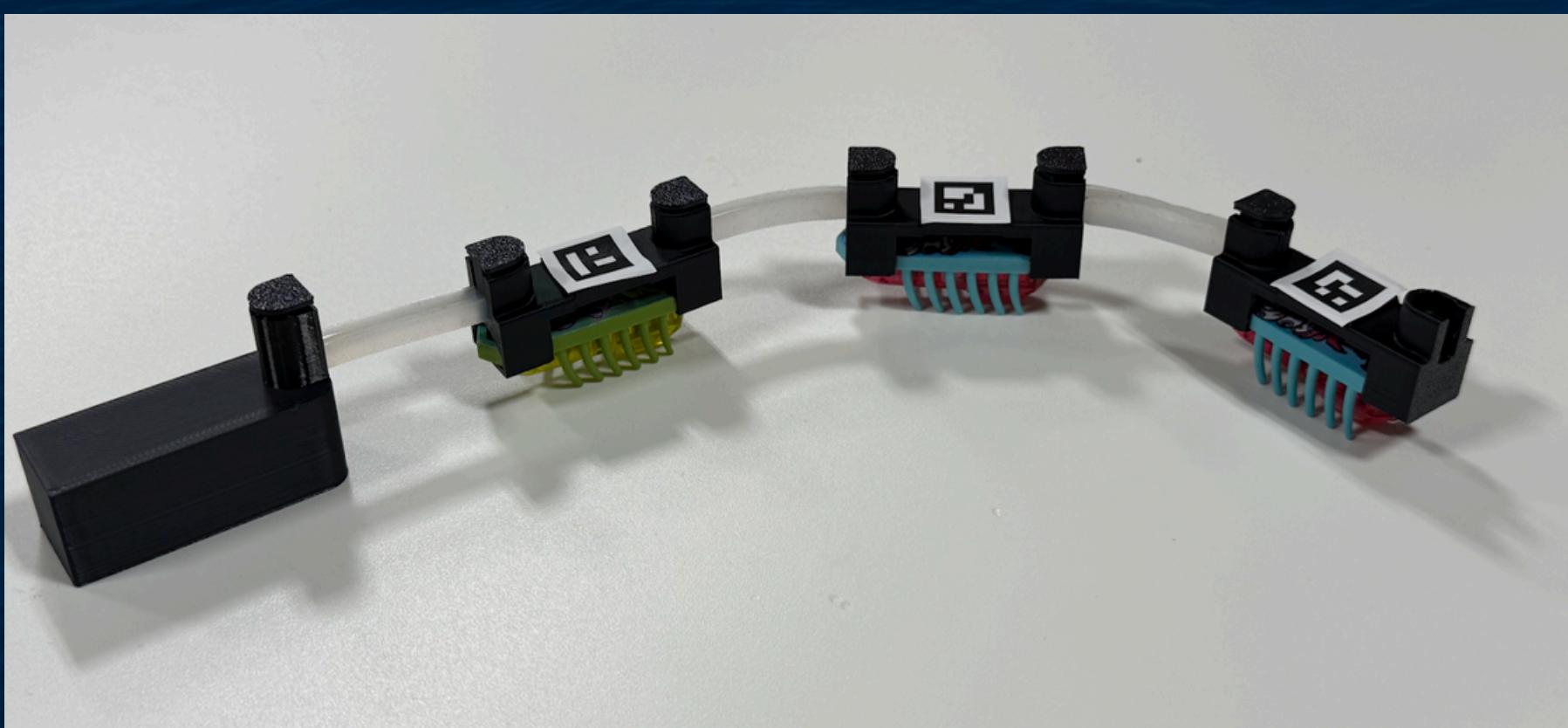


HEXCITATIONS & SUSTAINABILITY

PROJECT DESCRIPTION

An active particle is one that takes energy from its environment in order to move autonomously. Hexbugs can serve as macroscopic representations of the microscopic particles. Cilia-like filaments and webbed particles provide a foundation for our exploration into the world of active particles. Thus, our goal was to build an active filament and to explore how different orientations and combinations of filament power and length affect the interplay between filament elasticity & activity.



R6: REMANUFACTURE

- Remanufactured our 3D printed cage to allow for multiple types of silicone linkages between the hexbugs
- We can analyze the effects of different lengths and types of linkages, the pegs allow for flexibility in the types of linkages able to be tested
 - Leads to overall longevity in the project
- Removable cages in case of hexbug damage/death.
- If we decide to re-engineer our cage, we will continue to think of ways that will allow us to find multiple purposes of our material, to reduce as much waste as possible

