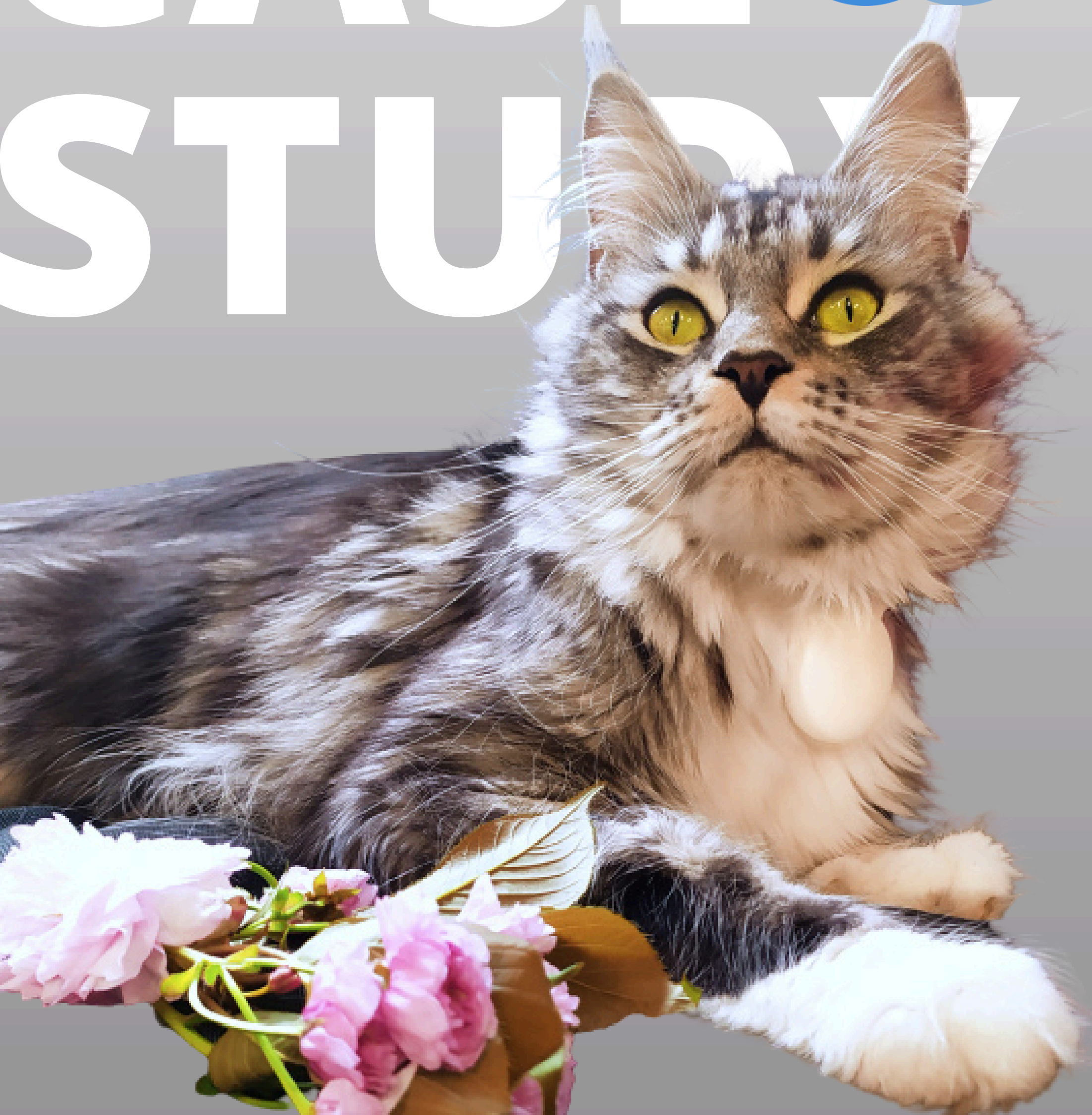


CASES

STUDY



 sculpteo X



HELPING CAT LOVERS TRACK THEIR
PETS' BEHAVIORS FOR IMPROVED
WELL-BEING.

CHALLENGES

• 1

Create a collar that is both dust-proof and waterproof.

• 2

The collar is light, flexible, and well-received by cats.

Main information

Company	Blackfoot's Herding Cats
Industry	Pet Care
Product	Behavioral tracking collar
Technology	SLS PA11
Material	SLS TPU
Finishing options	Polishing & Dying
Challenge	Create a lightweight, robust, water and dust proof collar for cats.



BLACKFOOT

ABOUT THE COMPANY:

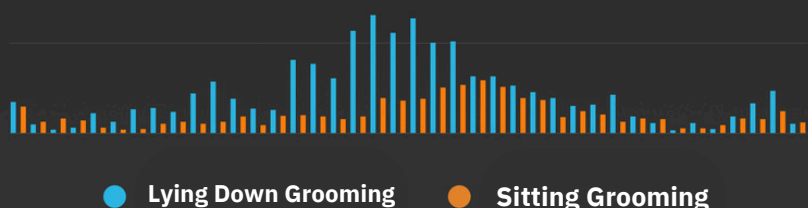
Blackfoot is a pioneering innovation laboratory that creates technological solutions for mass consumption. Rooted in its DNA is a commitment to fostering transformation through the development and realization of innovative projects. From establishing cutting-edge laboratories to accelerating the pace of projects, Blackfoot is at the forefront of manufacturing innovation.

CONCEPT PRESENTATION:

One of Blackfoot's recent endeavors involves the creation of a revolutionary pet health monitoring device. HerdingCats, a cat collar equipped with an anti-strangulation clasp and a medallion capable of recording the animal's activity. By amalgamating this data with advanced statistical analysis and behavioral insights, the collar provides pet owners with invaluable insights into their pet's well-being.

Collaborating closely with ethologists and veterinarians, Blackfoot's team at Herding Cats developed this product to leverage scientific knowledge in understanding and analyzing animal behavior. Using artificial intelligence (AI), the collar can discern intricate behavioral patterns, allowing for a comprehensive assessment of the animal's health. Scheduled for launch in late 2024, this product promises to revolutionize pet care.

PACE OF ACTIVITIES

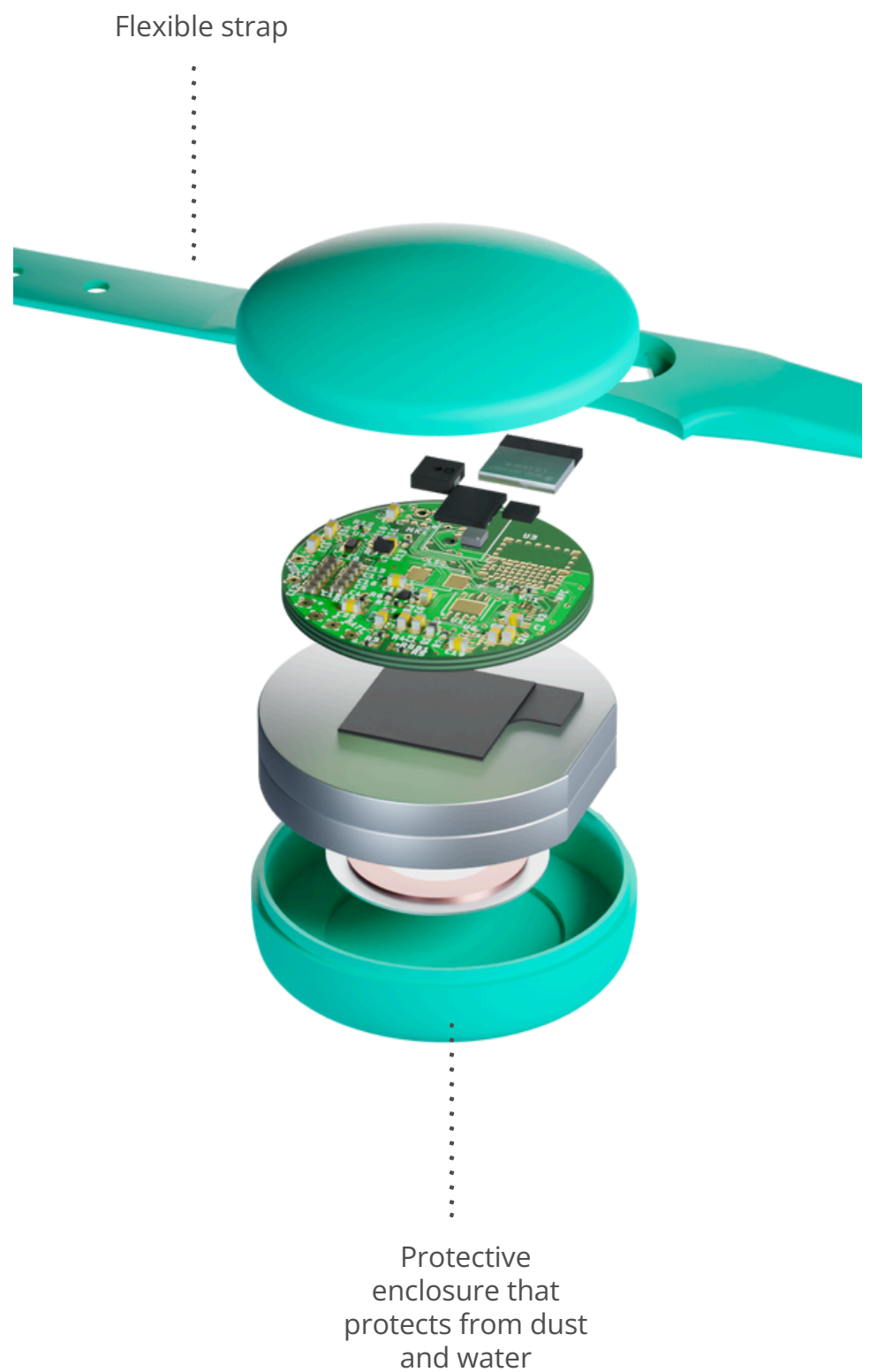


ABOUT THE PROJECT:

A key challenge faced by Blackfoot in developing this product was manufacturing waterproof and dustproof cases that meet the stringent IP67 standard. As well as manufacturing a device around ensuring its acceptance by the animal. Factors such as weight, surface area, volume, and battery life were critical considerations in designing a product that pets would embrace while delivering optimal functionality.

To meet the IP67 standard, Blackfoot carefully selected materials. They chose SLS PA11 (Selective Laser Sintering Polyamide 11) for the main case due to its strength, durability, and water resistance. PA11's high impact resistance and ability to withstand harsh conditions made it ideal for the case.

For flexible components, Blackfoot used TPU (Thermoplastic Polyurethane) with SLS (Selective laser sintering) technology. TPU's flexibility, elasticity, and abrasion resistance allowed the device to adapt comfortably to the animal's movements while maintaining structural integrity. SLS technology enabled precise detailing, ensuring seamless integration of flexible parts with the main case.



The result is a pet health monitoring device that meets the highest standards of durability and functionality while prioritizing animal well-being. HerdingCats technology detects subtle behavioral shifts before owners notice them, enabling early health issue detection and timely interventions. This proactive monitoring enhances pet care and reduces veterinary expenses. With its launch, HerdingCats is set to revolutionize pet care, offering owners unprecedented insights into their pets' health and behavior.

"The integration of TPU was a real revelation for our prototyping process! In record time, we were able to bring our product to fruition, being able to test it in a few days, while respecting a very reasonable budget. We was able to obtain products comparable to injection, so as to be able to show an attractive product to our testers and investors."



BLACKFOOT

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