

Digital simulations of electric motorcycles

A DIH4CAT success story

STARK

DIH4CAT Digital Innovation Hub de Catalunya

AI Connect

eurecat Centre Tecnològic de Catalunya

1. The company

Stark Future designs and produces **next-generation electric motorcycles**.



2. The challenge

Its flagship model is the **Stark VARG**, a leading motocross motorcycle in its category.

- Validate the new design of the Stark VARG chassis.
- Simulate how its components behave under fatigue.
- Ensure the durability and safety of the new model.

3. The solution

Through DIH4CAT, the company brought its challenge to **Eurecat**, a technology centre specialising in AI.

Eurecat developed a digital model in a simulation environment to test the strength and durability of the new chassis.

The system also identifies critical design points that can be corrected before manufacturing begins.

4. The impact

- ✓ Greater competitiveness through a more reliable, optimised design.
- ✓ Lower costs, with fewer physical prototypes and issues.
- ✓ Faster development through quicker validation.
- ✓ A positive environmental impact, with fewer resources used for testing.