

Remanufacturing of Bicycles



Location: Via Carlo Porta, 2, 20060 Basiano, Italy

Web: www.decathlon.it

Product

Bicycle

Challenges

- Manual and subjective evaluation of used bicycles.
- Lack of tracking for components in used bikes.
- Inconsistent quality checks due to operator variability.



Remanufacturing Business Model

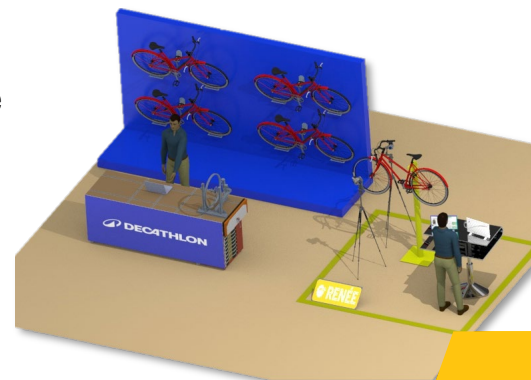
The RENEÉ project will develop a systematic and automated approach to evaluate and remanufacture bicycles. This includes standardized quality checks, a traceability system for components, and integrating remanufacturing activities directly within DECATHLON stores, ensuring efficient processing and reuse of valuable parts.

RENEÉ Technology Advancements

- Deployment of automated quality control systems for objective evaluation.
- Implementation of a traceability platform for tracking individual components.
- AI and smart sensors to assess the condition of bicycles and components.

Impact

- Improved reliability in quality checks and reduction in processing time.
- Enhanced traceability of bicycle components.
- Better utilization of high-value components like carbon frames.
- Increased number of refurbished bicycles.



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