

PROJECT CHARTER

Project Name Copy-Waste

Date Produced 2020-10-27

Project Goals This project intends to create a software pipeline that creates training datasets for rare and severe recycling contaminants. Detecting incidents at the source can reduce associated costs and risks.

Project Objectives

- Develop a universal waste bin classifier that reduces false positive detections.
- Create a process for generating synthetic datasets for rare items using a small number of sample images
- Create an interactive dashboard for municipalities to track recycling collection statistics.

Project Budget ~\$1000 with items including:

- AWS compute time
- AWS storage
- SuperAnnotate annotations for image segmentation

Project Sponsor Prairie Robotics

Project Manager Sam Dietrich

Additional Key Project

Stakeholders

Software Engineering Faculty:
Dr. Macaig: Project Supervisor

Mentors:
Dr. El-Darieby: Project Supervisor

Overall Project Milestones

Described in Copy-Waste: Milestone Schedule

Overall Project Risks

Limited/rare occurrences for true positive verification

Poor edge computer processing capacity

Low performance segmentation classifier
