Team Copy Waste

Introduction

THE TEAM

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PROJECT MISSION

TO *AUTOMATE* THE DETECTION OF *SEVERE & RARE CONTAMINANTS* IN *RECYCLING*

Business Opportunity

- → People are ***confused*** about which products are recyclables
- → These contaminants cost cities ***millions*** of dollars to extract from recycling each year
- → Severe and Rare occurrence waste cause ***risk*** and ***contamination***
- → Rare occurrence waste is currently ***impossible*** to detect reliably

Reason

- → Recycling is contaminated, expensive, and inefficient
- → Waste collection is dangerous and presents a direct risk to workers
- → Our responsibility to protect the environment and create safer workplaces
- → Improve recycling rates and reduce costs for municipalities

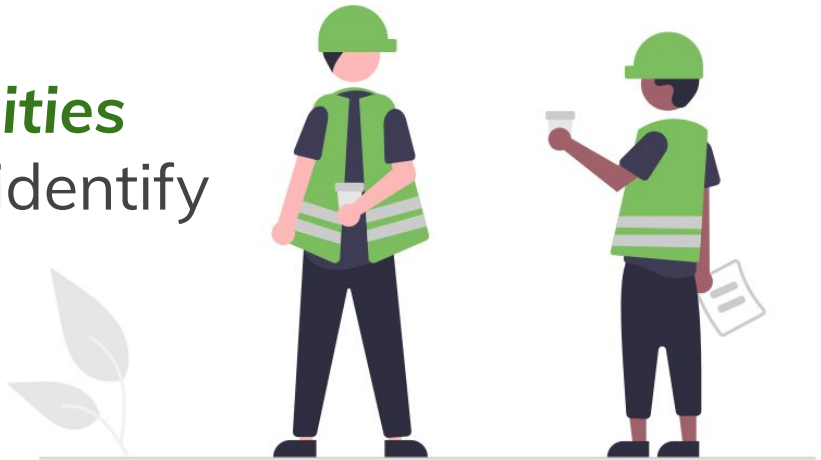
Impact

→ Reduce burden on individuals and strive for complete automation

→ Take drastic action on environmental impact and waste

Our Customer

Waste Management
companies & ***Municipalities***
who are attempting to identify
hazardous waste



Our Customer

Our Industry Partner will serve as our Customer

Others Affected

Educating Individuals who misplace severe and rare occurrence waste in recycling

Technology

- → Copy Paste Algorithm
- → Mask R-CNN
- → YOLO (You Only Look Once)
- → AWS
- → Python
- → React

Project Objectives

- → Universal Waste Bin Detector
- → Automated Copy-Paste Augmentation Pipeline
- → Interactive User Interface

Constraints

- → Limited knowledge of Machine Learning, Artificial Intelligence and the Copy-Paste Algorithm
- → Access to testing platform (active waste truck)
- → Architecture cost
- → Mitacs Proposal

Thanks for Watching!