# Team Copy Waste

Scrum 6

Feb. 8, 2022 - Feb. 15, 2022





### THE TEAM



**Nolan Flegel** Machine Learning



**Rishabh Prasad**Front-End Services



William Peers
Back-End Services

PROJECT VISION

REDUCE RISK FOR
WASTE MANAGEMENT
WORKERS & COST FOR
MUNICIPALITIES



#### PROJECT MISSION

TO AUTOMATE THE DETECTION OF SEVERE & RARE CONTAMINANTS IN RECYCLING



#### **Business Needs**

- → Reduce Risk of Fires and Associated Health Concerns
- → Reduce Cost
- Address Careless Recycling & Hazardous Contamination

## STATUS GREEN

# Project Issues / Changes

- None at this time



# Individual Contributions



- Auditing 30,000 images of Transparent Plastic
- → Code Reviews

## Individual Contributions



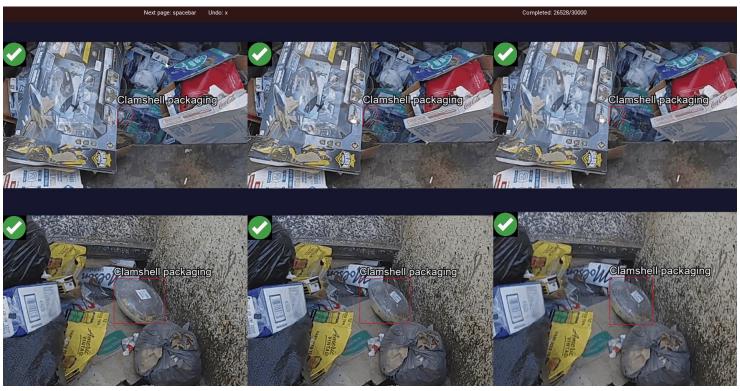
- Auditing Clamshell Packaging Annotations
- → Started Multiple Object Placement
- Code Reviews

## Individual Contributions



- Auditing Grocery Bag Annotations
- → Code Reviews

## Simple Copy-Paste



## Simple Copy-Paste



## Simple Copy-Paste



## **Next Up**

- → Meet with Mitacs Mentors
- → User Acceptance Testing
- → MVP 4: Layering Transforms
- MVP 5: Scale up data augmentation prototype



#### Reflection

- → Does the team feel "on track"?
  - We believe we are still on track
- → What progress does the team particularly feel good (great) about?
  - Finishing Auditing our dataset

#### Reflection

- → What barriers (if any) does the team feel are a current impediment to success?
  - None at this time
- → What help (if any) does the team require to move positively forward?
  - None at this time

### Reflection

→ What questions or concerns does the team have (if any)?

No concerns at this time

#### References

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- https://www.cbc.ca/news/canada/saskatchewan/crews-fighting-fire-at-crown-shred-and-recycling-1.5980051
- https://www.epa.gov/system/files/documents/2021-08/lithium-ion-battery-report-update -7.01\_508.pdf
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#### References

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- → https://publications.gc.ca/site/eng/9.871296/publication.html
- → https://arxiv.org/abs/2012.07177
- → https://arxiv.org/pdf/1506.02640.pdf

## Thanks for Watching!