

PolyPerception's More Accurate Data Gives Sorting Facilities Better Visibility Into Their Waste Streams

PolyPerception provides an AI-powered waste management platform to plastics and material recovery facilities. Their technology tracks each individual piece of waste at an object level. This gives the facilities visibility into their waste streams so they can operate more efficiently and responsibly. The team has partnered with Sama to help fuel this technology, to further their mission of empowering stakeholders across waste management—from recyclers to municipalities to legislators—to make more sustainable decisions about waste and its impact on the environment.

Labeling Challenges

In order to deliver actionable insights and quantitative data to their clients, PolyPerception set out to build a robust multi-object tracking model, but quickly found that the accurate labeling of data would play a key role:

LOW LIGHT AND SPEED

Waste objects travel quickly on conveyor belts in facilities with less-than-ideal lighting conditions

VOLUME OF WASTE

On average, 8 tonnes of waste passes through a waste sorting facility every hour

DIVERSITY OF REQUIRED LABELS

Wide range of packaging types, materials, with regulations and trends constantly shifting

How Sama Helps

Sama worked with PolyPerception to deliver high-quality labeled data to power their technology:

- **Accurately labeled millions of waste objects**
- Delivered annotations with an **average Quality Score of 99%**
- Maintained **open feedback loops** to adapt to changing regulations and the nuances of waste objects from region to region.

Accurately labeled data provided by Sama now powers PolyPerception's technology, giving facilities the traceability and transparency they need to:



Operate more efficiently



Reach better commercial terms



Tackle new legislation and packaging trends

"The team quickly learned to distinguish between waste objects, which differ greatly from region to region.

Communication channels remained open for feedback, and we had a continuous open discussion about how the efforts were progressing."

— Rafael Hautekiet, CEO of PolyPerception

1M+

Millions of waste objects labeled

99%

Average Quality Score of 99%

Contact Us

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