

## Manual separation of waste materials





# ACCORDING TO JOURNAL OF ENVIRONMENTAL AND PUBLIC HEALTH

- Globally waste generation increased from 635 million Tons to 1999 million Tons in 2015.
- It is forecasted to reach 3539 million Tons by 2050.

# ACCORDING TO JOURNAL OF ENVIRONMENTAL AND PUBLIC HEALTH

- Around 1/4th of the global waste is generated in Asian region.
- Which is predicted to be approx. 1/3rd by 2050.

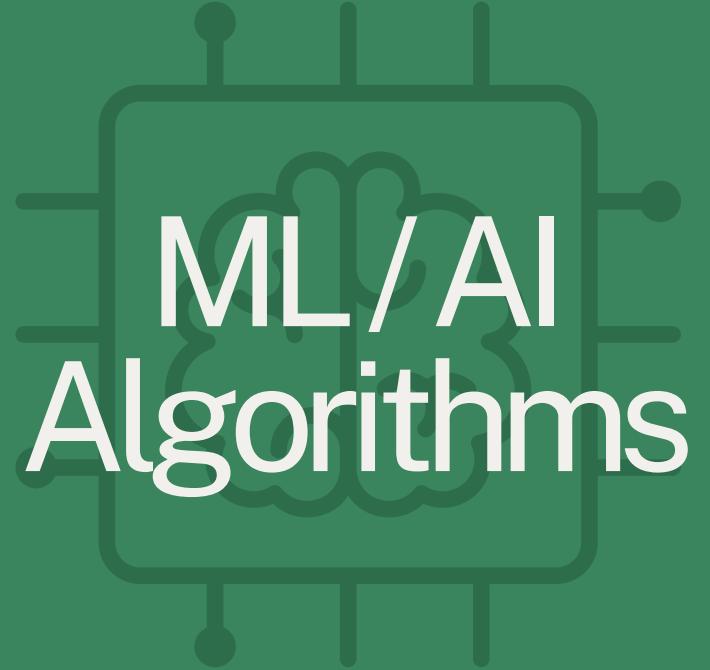


- Municipal waste generation in Nepal has reached 1653 tons per day.
- 66% of the total waste was found to be organic.
- Great opportunity for extracting recyclables from the waste stream.



# NEPAL HAS A LOW WASTE RECOVERY RATE

- Poor source segregation.
- Inefficient collection system.
- Resulting in most waste ending up in landfills.



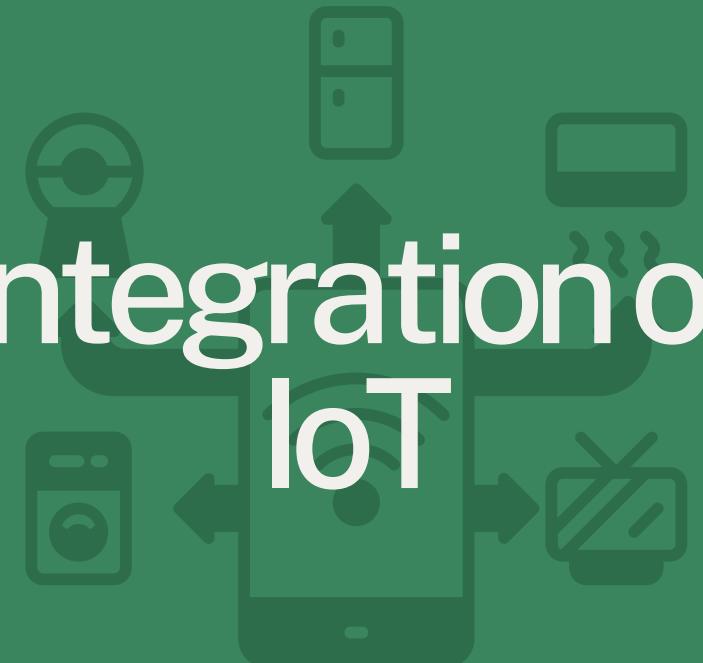
ML/AI  
Algorithms



Collaboration  
and  
Partnerships



# APPROACHES TO SOLVE THE PROBLEM



Integration of  
IoT



Automated  
Sorting  
Technologies

# INTRODUCING



# INTRODUCING



“Turning Trash, into Cash”

# WHAT DOWE DO?

Achieve Proper sanitation and green city

Implementing the peak potential of  
“SORI-FORI”

# ACHIEVEMENT UPTO NOW

Capable of detecting Inorganic and non-reusable waste materials.

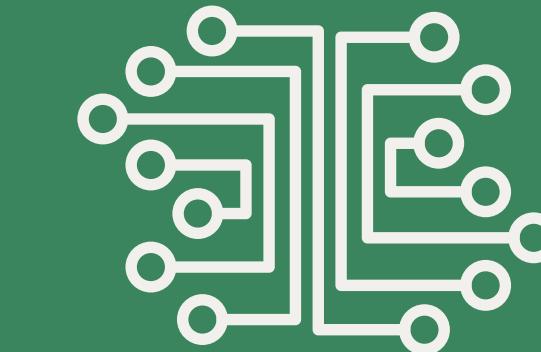
Capable of categorizing waste materials in both Video and Image.

# PROTOTYPE

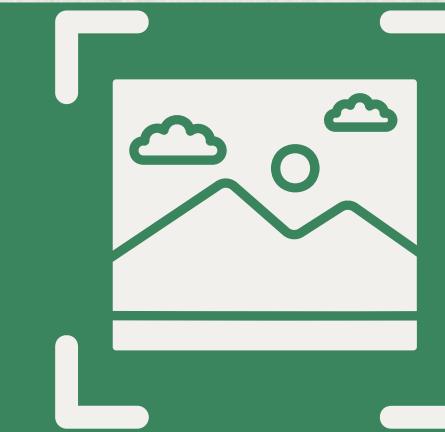


# FUNDAMENTAL FEATURES

Machine learning algorithms



Object detection



Real time processing





# FUTURE POTENTIAL

Can be integrated in a huge segregation machine.

It can be improved to detect nearly all types of waste.

Data-driven Insights and Decision-making.

# BUSINESS MODEL



Business to Government

Business to Business



# Sustainable Development Goals (SDGs)

SDG 11: Sustainable Cities and Communities

SDG 3: Good health and well-being

SDG 15: Life on Land

**THANK YOU  
ANY QUESTION?**