

C L O S E D  
L O O P *fund*

# Closed Loop Fund Platform



## Incubate



Researches and incubates business models that build markets and roadmaps to improve environmental outcomes.

### Sample Partners



### Sample Projects

- Project ReFED: National study on investments to reduce food waste
- Recycling models in public housing

## Commercialize



Venture fund that invests in commercializing innovation across the product lifecycle – from material innovation and design to reuse and recycling.

### Potential Investors

Family offices, institutions, individuals interested in strong financial returns and positive social impact.

### Status

**Currently Fundraising**  
 First close expected be in June 2016  
 Conducting early diligence on ~6 ventures

## Scale



\$100m debt fund that invests in scaling recycling through municipal infrastructure, private companies, materials and packaging.

### Sample Investors



### Sample Investments



*Includes investments that are in process*



The Closed Loop Fund is a social impact fund investing \$100M to increase the recycling of products and packaging.

Investors include:



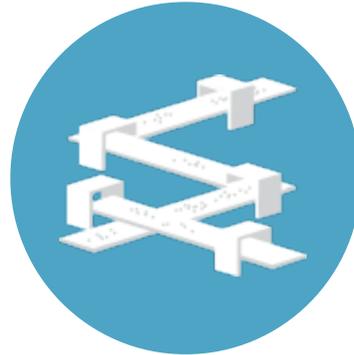
■ The Closed Loop Fund unlocks recycling's value by providing **0% and low interest loans** to cities and companies to build recycling infrastructure.

We invest in replicable models that remove barriers to an effective and financially viable recycling system

WE INVEST IN:



COLLECTION

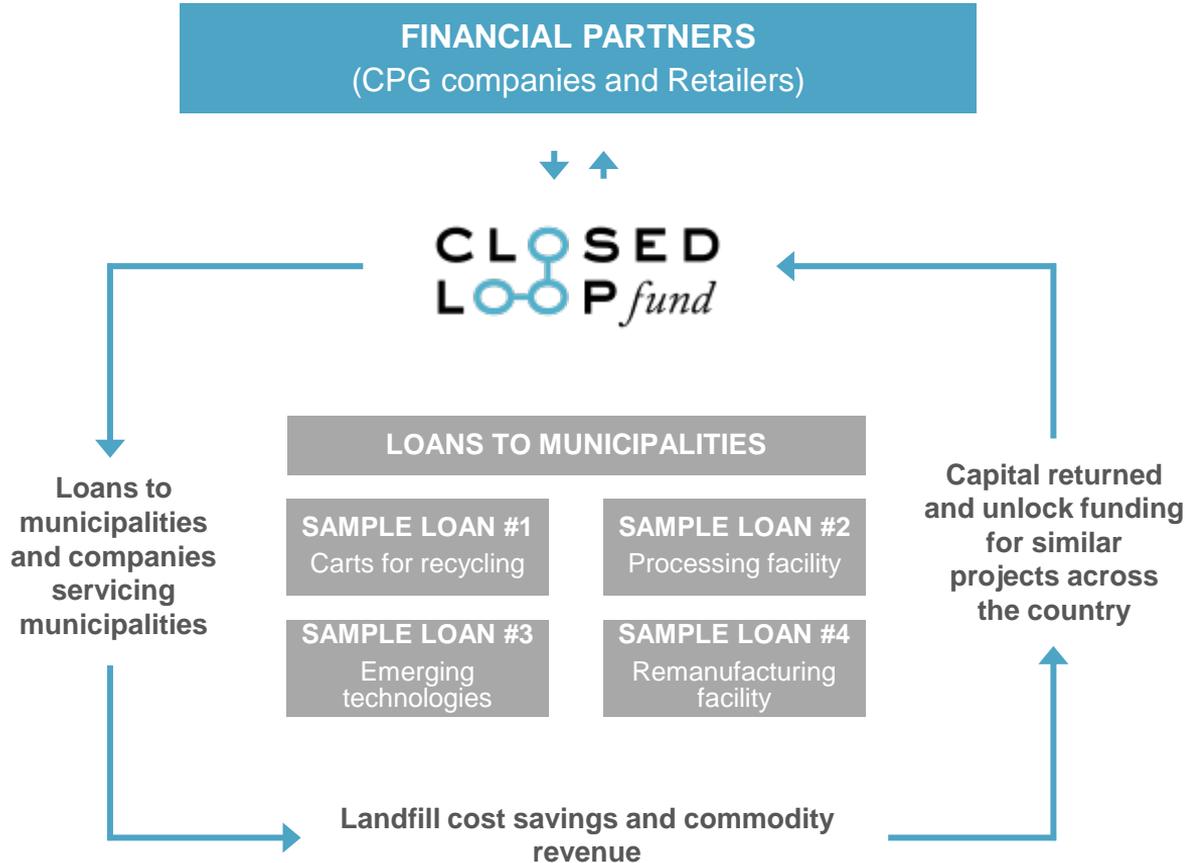


SORTING



PROCESSING & MARKET DEVELOPMENT

# Fund Structure



# Investment criteria

Every loan must meet four stringent criteria



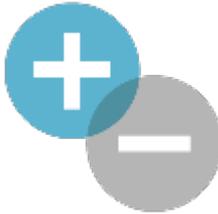
## FINANCIALS

Applicants must demonstrate long term financial viability of project.



## REPORTING

Applicants must demonstrate the ability to provide detailed reports.



## SCALABILITY

Applicants must demonstrate that the project can scale and be replicated by other cities.



## TONNAGE

Applicants must demonstrate that the project will generate a significant increase of tonnage returned to the supply chain.

## Anticipated impact of the fund

The Closed Loop Fund targets following impact could be achievable over the life of the Fund (10-years):



### **SOCIAL**

2,000+ incremental local jobs vs. land-filling.



### **ENVIRONMENTAL**

50 million metric tons of GHG reduction



### **FINANCIAL TO MUNICIPALITIES**

\$2B in avoided landfill tipping fees and revenue generated from selling diverted commodities.



### **UNLOCK PUBLIC AND PRIVATE FUNDING NATIONALLY**

Create scalable models that prove financial value to funders across the country to help bring modern recycling programs to homes across the US.



**QRS -- Plastic Recovery Facility (PRF)  
Baltimore, MD**

**Investment:** Create profitable market for hard-to-recycle rigid plastics (#3-7) for the east coast.

**Impact Over 10-years:** 650,000 tons, 670,000 tons of GHG

**Total Project Cost:** \$11,000,000

**Closed Loop Fund Portion:** \$2,000,000

**Co-investment unlocked:** \$9,000,000



## **Portage County, OH**

**Investment:** New Single Stream Recycling Carts and Trucks in Midwestern semi-rural community

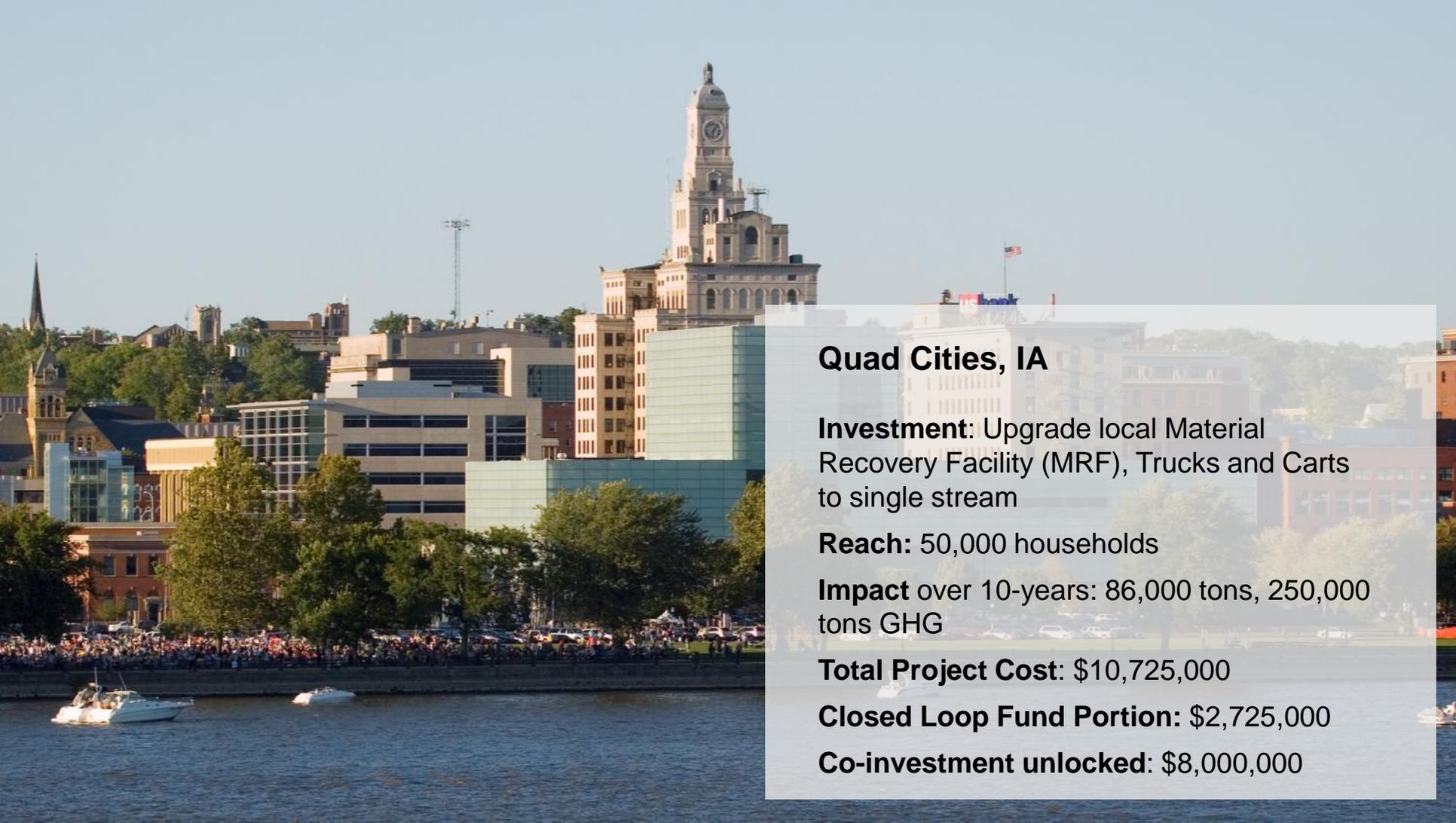
**Reach:** 25,000 households

**Impact over 10-years:** 37,000 tons, 110,000 tons of GHG

**Total Project Cost:** \$4,300,000

**Closed Loop Fund Portion:** \$3,100,000

**Co-investment unlocked:** \$1,200,000



## **Quad Cities, IA**

**Investment:** Upgrade local Material Recovery Facility (MRF), Trucks and Carts to single stream

**Reach:** 50,000 households

**Impact** over 10-years: 86,000 tons, 250,000 tons GHG

**Total Project Cost:** \$10,725,000

**Closed Loop Fund Portion:** \$2,725,000

**Co-investment unlocked:** \$8,000,000

## Rethinking Food Waste through Economics and Data (ReFED)

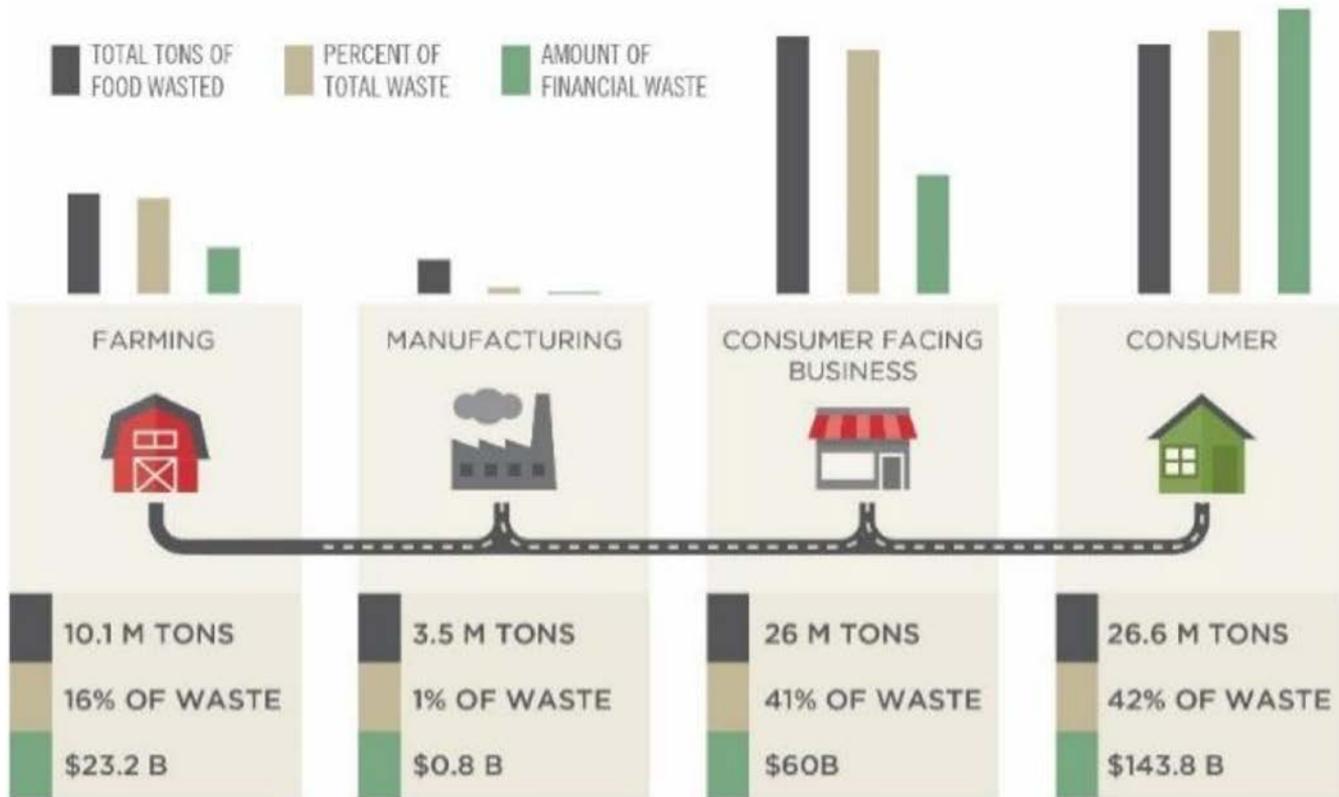
**Problem:** Today, the United States spends \$218 billion – 1.3% of GDP – growing, processing, transporting, and disposing of food that is never eaten.

**Roadmap:** ReFED envisions a future where combating food waste is a core driver of business profits, job creation, hunger alleviation, and environmental protection.



## VALUE CHAIN: WHERE DOES FOOD WASTE OCCUR?

Food waste is created throughout the entire food value chain, from farms, distributors, and processors to retailers, restaurants, and households. All of this waste has enormous economic value across every segment of the food supply chain—a **loss of \$227.8B annually** at current market prices:



The enormous amount of food waste generated today is more than any one type of solution has the capacity to manage. Therefore, the proper management of food waste will require a suite of solutions.



**1 PREVENTION**      **2 RECOVERY**      **3 RECYCLING**

**Food Waste Reduction Technology Businesses**  
Businesses that use technology to reduce spoilage and inefficient practices in the manufacturing, delivery and sale of food.

**Donation**  
Business models that increase the amount of food traditionally slated for waste that can instead reach people in need.

**Anaerobic Digestion**  
Large Scale Digesters- Leading processing system for handling large amounts of food waste  
Small Scale Digesters – Best solution for commercial entities like supermarkets and colleges that have space.

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