

betterment  
recycling

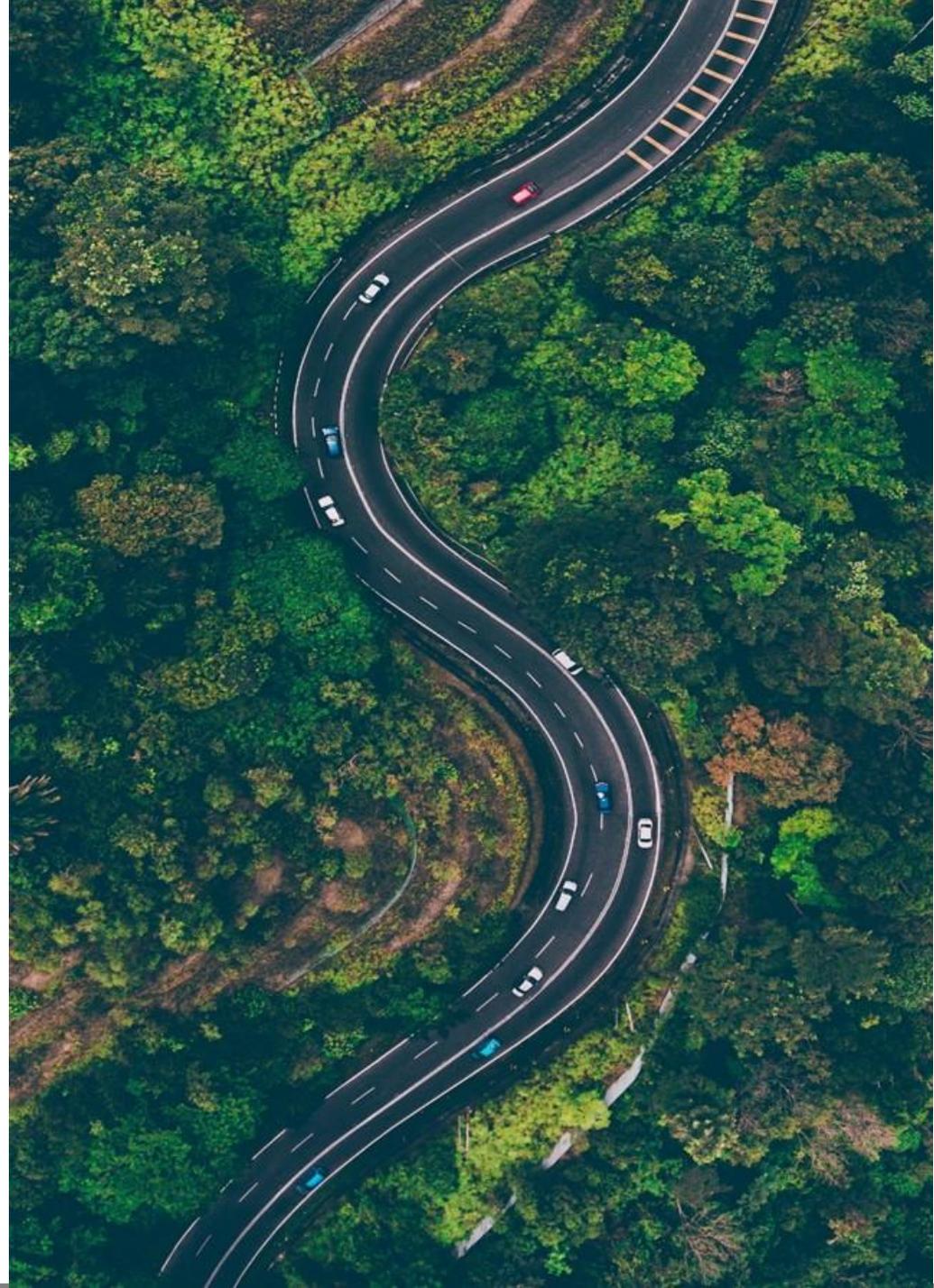




Fostering positive social and environmental impact by upcycling former coal mining and industrial sites to create sustainable community development and job creation. In the impacted communities, we are witnessing a moment of change as our society transitions away from coal-based fuels. These impacted communities are experiencing a number of environmental and social issues left behind by old industry, and there has been a lack of innovation and investment to catalyze practical solutions and change.

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“Betterment Recycling, a division of Land Betterment Corporation, is committed to efficiently restoring and remediating former coal mining and industrial sites by using innovative solutions to upcycle land and materials for communities through state-of-the-art tire recycling facilities.”



# Regional Focus

- Betterment Recycling's primary emphasis is on areas deemed high impact zones within Central Appalachia and the Midwest.
- Betterment Recycling finds unique solutions for communities with impacted lands.
- Areas of impact have experienced massive economic swings resulting in substantial and long-term environmental and community needs.
- Due to the lack of investment in the region, there is a void of sustainable job opportunities.

# 28%

**POVERTY RATE  
IN REGIONAL FOCUS**

★ Active projects or projects under evaluation by Land Betterment



# An Environmental Crisis – Central Appalachia / Rural Midwest

Central Appalachia and rural Midwest communities are facing a growing number of environmental problems due to the decline in the thermal coal industry and the United States' shift away from coal-based fuels. One challenge is the overflow of waste tires and a lack of efficient disposition options.

The number unusable waste tires is rapidly growing. Globally, nearly one billion waste tires are discarded each year and that number is expected to reach 1.2 billion by 2030. The US alone disposes of nearly 300 million waste tires annually.

Given the topography of the region and exposure to mining, Central Appalachia has a higher rate of waste tires. Additionally, with no efficient disposition method in the region, waste tires are an expensive problem that overflow landfills and scrap yards, and litter land and waterways.

Landfilling tires is a major problem. Given their size, volume and durability, landfilling is not a viable solution. Approximately 75% becomes void space which holds methane gas which can result in damage to liners and caps of landfills and cause contaminants to get into surface and ground water.

Additionally, waste tires serve as ideal homes for rodents and insects that can carry various diseases.

Although less frequent, accumulation of waste tires can lead to tire fires. When ignited, tire fires are very hard to control and extinguish and create a very difficult and expensive environmental problem and cleanup. The average passenger tire produces about two gallons of toxic oil into the environment when burned.

The legacy and abatement of the thermal coal industry has left behind a number of environmental problems that put communities at risk. These problems are expected to accelerate over the next decade if nothing is done.



“We provide unique and innovative environmental and social solutions by upcycling impacted lands and materials for communities through tire recycling facilities.”



# The Betterment Recycling Solution

The  
Current  
State



The  
Betterment  
Recycling  
Solution

Environment



Jobs



Sustainability



# Benefits of Tire Derived Aggregate (TDA)

Tire derived aggregate is the byproduct made from shredded and granulated waste tires and is used in a wide variety of products and construction projects. Its uses are economical, safe, sustainable and high-performing.

**High-Performing** – TDA is lightweight, strong and free-draining which makes it applicable in a wide variety of engineering and construction projects. Its vibration and noise tempering characteristics make it ideal for highway and rail uses near neighborhoods. TDA functions as an excellent alternative to conventional soil fill when constructing embankments and slide repair as it improves stability, reduces pressure and settlement problems.

**Rubberized Asphalt** - Incorporating TDA into asphalt mixtures is proven to have better skid resistance, improved tensile strength, toughness and resistance to cracking and rutting, resulting in longer pavement life.

**Rubberized Concrete** – Incorporating TDA into concrete is proven to improve durability, ductility, damping capacity, chemical resistance, and emitted radiation, creating a safer, more efficient building product.

**Cost Efficient** – TDA is less expensive than other lightweight fill materials. Adding it to asphalt and concrete not only enhances performance but also reduces overall costs. Rubberized asphalt / concrete can save as much as \$22,000 per highway lane mile over conventional mixtures.

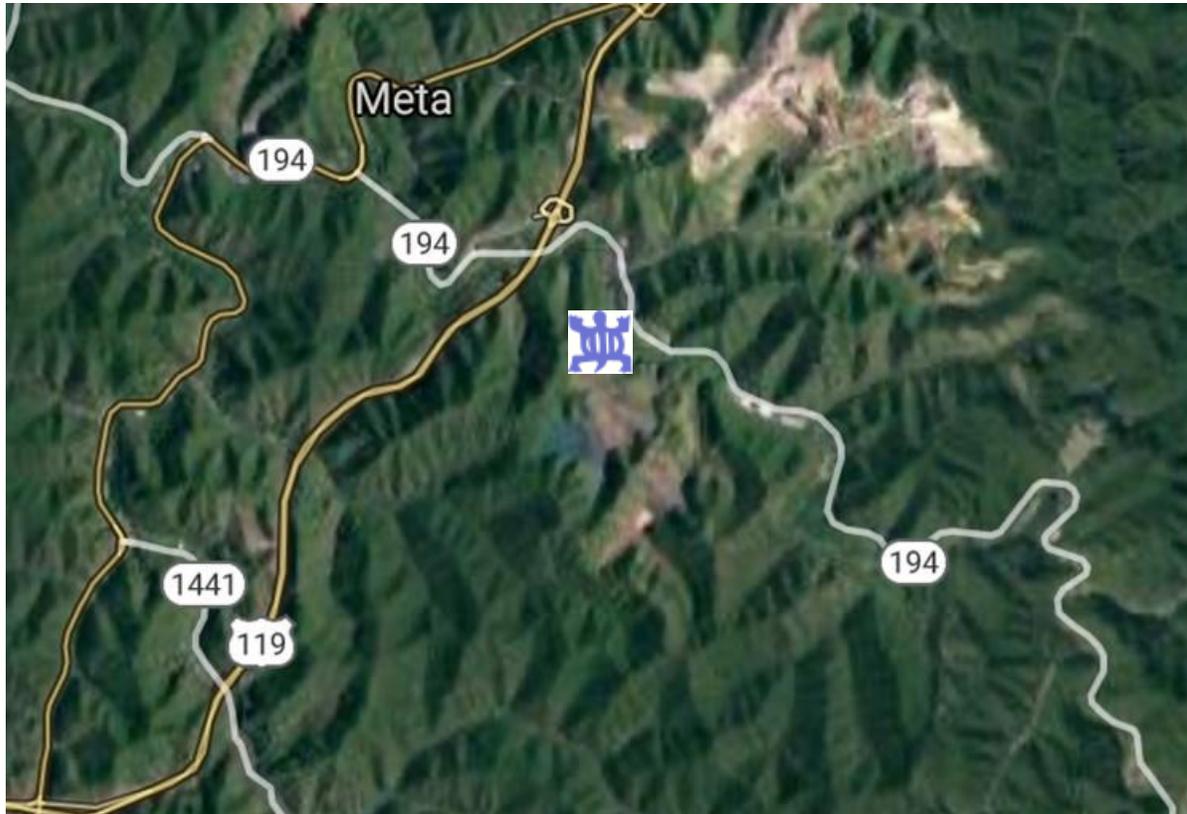
**Eco-Friendly** – TDA reduces the need for mined resources such as pumice and gravel. The world produced approximately 5 billion tons of concrete per year. Implementing TDA provides a sustainable use for waste tires and reduces the number ending up in landfills. Utilizing TDA in rubberized asphalt enhances its performance properties enabling the thickness of the asphalt layer to be reduced by 24%.



# Phase 1 Projects

## Bluegrass Plant ♦ Mountaineer Plant

Our Phase 1 development consist of two site locations to house complete tire shredding and recycling plants. Each of the Phase 1 sites were former coal mining and industrial properties that have undergone environmental remediation to effectively and safely accommodate each plant. We are providing real solutions for the environment by repurposing these sites to establish a safe, economical and efficient way to dispose of waste tires and to create alternative , while creating job opportunities that fit the skillset of the labor force.



Bluegrass Plant site location – Pike County, KY



Mountaineer Plant site location – Wyoming County, WV



# Bluegrass Plant

- Bluegrass Plant, located in Pike County Kentucky, is on a former coal storage property.
- Facility will bring over \$7,500,000 of new capital investment into the county.
- Primary customers will be wholesale and retail mulch users. Wholesale customers will include both regional health providers as well as components of government.
- Facility has secured \$6,600,000 of New Markets Tax Credits bringing over \$1,200,000 of equity like capital into the business.

## Community Benefits

- Brings a new industry and economic diversification to the region.
- Will create over 35 permanent jobs that already fit a highly skilled local labor force with a blended compensation rate of greater than \$20 per hour.



# Mountaineer Plant

- ✦ Mountaineer Plant, located in Wyoming County West Virginia, is on former coal storage property.
- ✦ Facility will bring over \$10,500,000 of new capital investment into the county.
- ✦ Primary customers will be wholesale mulch and rubber crumb users. Rubber crumb will be sold to the leading asphalt contractors in the region.
- ✦ Facility has secured \$5,000,000 of New Markets Tax Credits bringing over \$1,400,000 of equity like capital into the business.

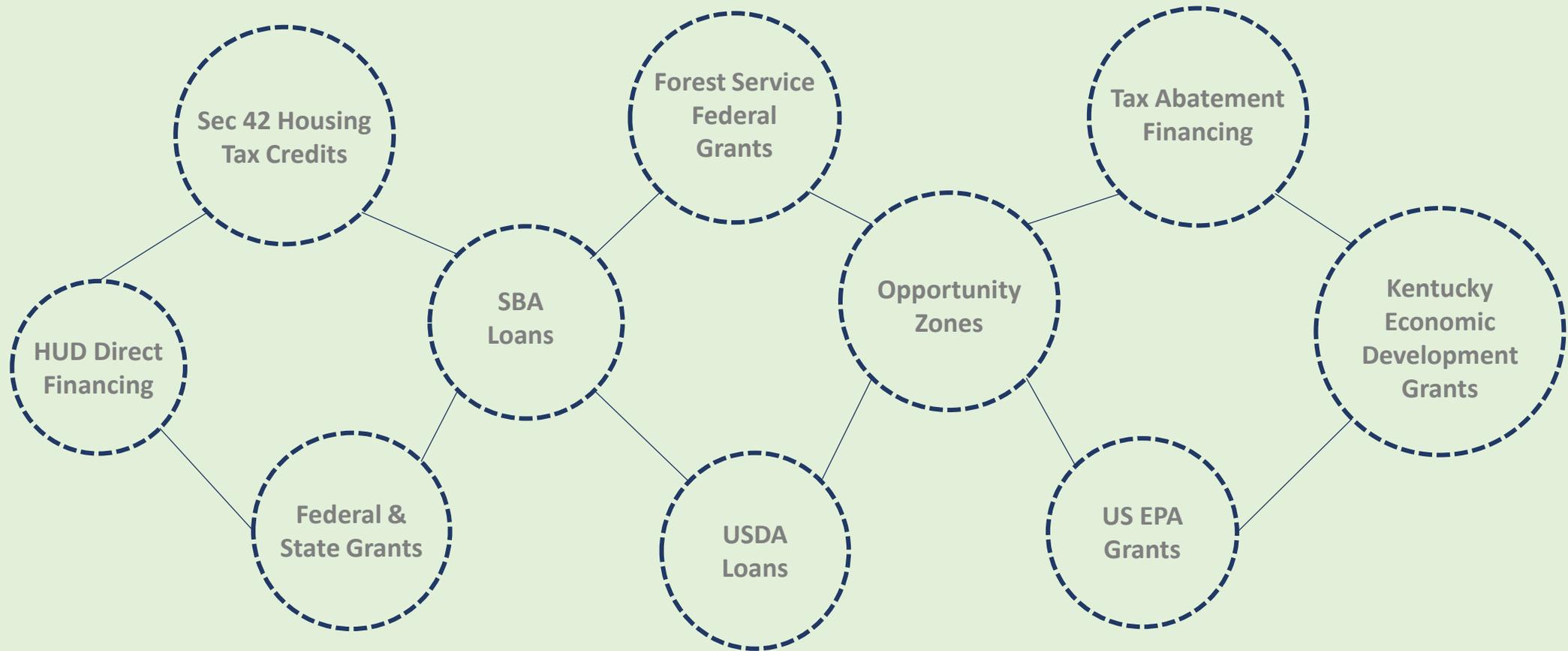
## Community Benefits

- ✦ Brings a new industry and economic diversification to the region.
- ✦ Will create over 45 permanent jobs that already fit a highly skilled local labor force with a blended compensation rate of greater than \$20 per hour.



# Public private relations

We are combining this crowdfunding raise with federal, state and local governmental programs to financially support our growth efforts.



# Betterment Recycling

*A division of*

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Certified



Corporation

**PENDING**

### Earth and Community First



# Plant Equipment

