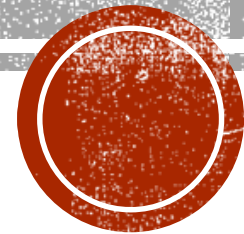


# Reclamation Through Holistic Restoration in Appalachia

Jacob Israel Hannah  
Director of Conservation  
Coalfield Development Corporation  
Huntington, West Virginia





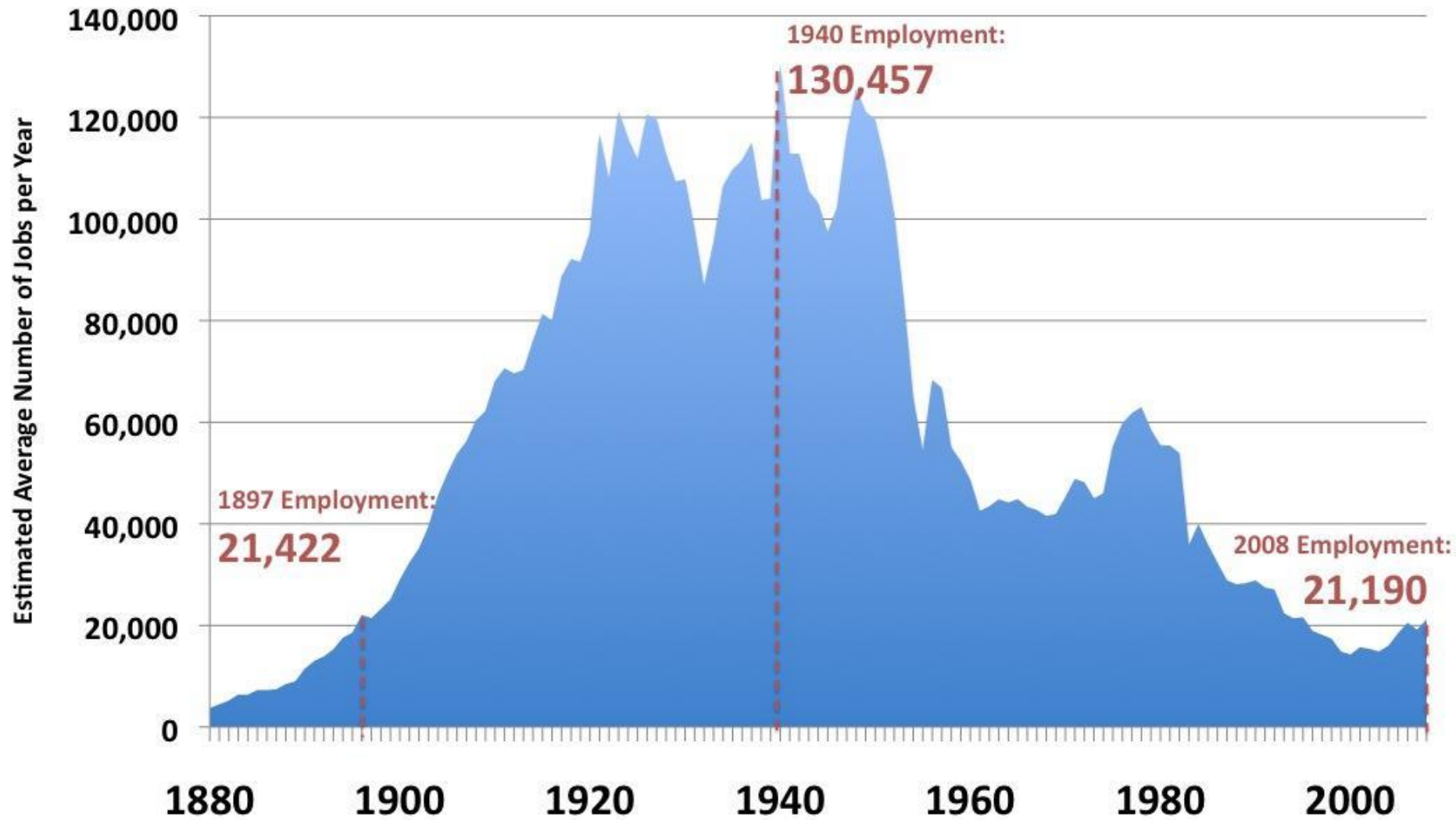
From the 18th century to the 1980s, West Virginia was the largest coal producing region in America.

Today, West Virginia has:

- The nation's lowest labor participation rate
- The nation's 2nd lowest higher education rate
- The nation's highest opiate overdose rate
- The nation's fastest depopulation rate
- High need for economic diversification
- Sensitive natural areas



# Coal Mining Employment in West Virginia





# Portals: Acid Mine Drainage (AMD)





Clean water is scarce and difficult to access for Appalachians. Many do not have utility-scale access to water and instead must rely on local springs.





# Mountaintop Removal (Strip Mining)





# COALFIELD DEVELOPMENT ADDRESSES:

Environmental



Social

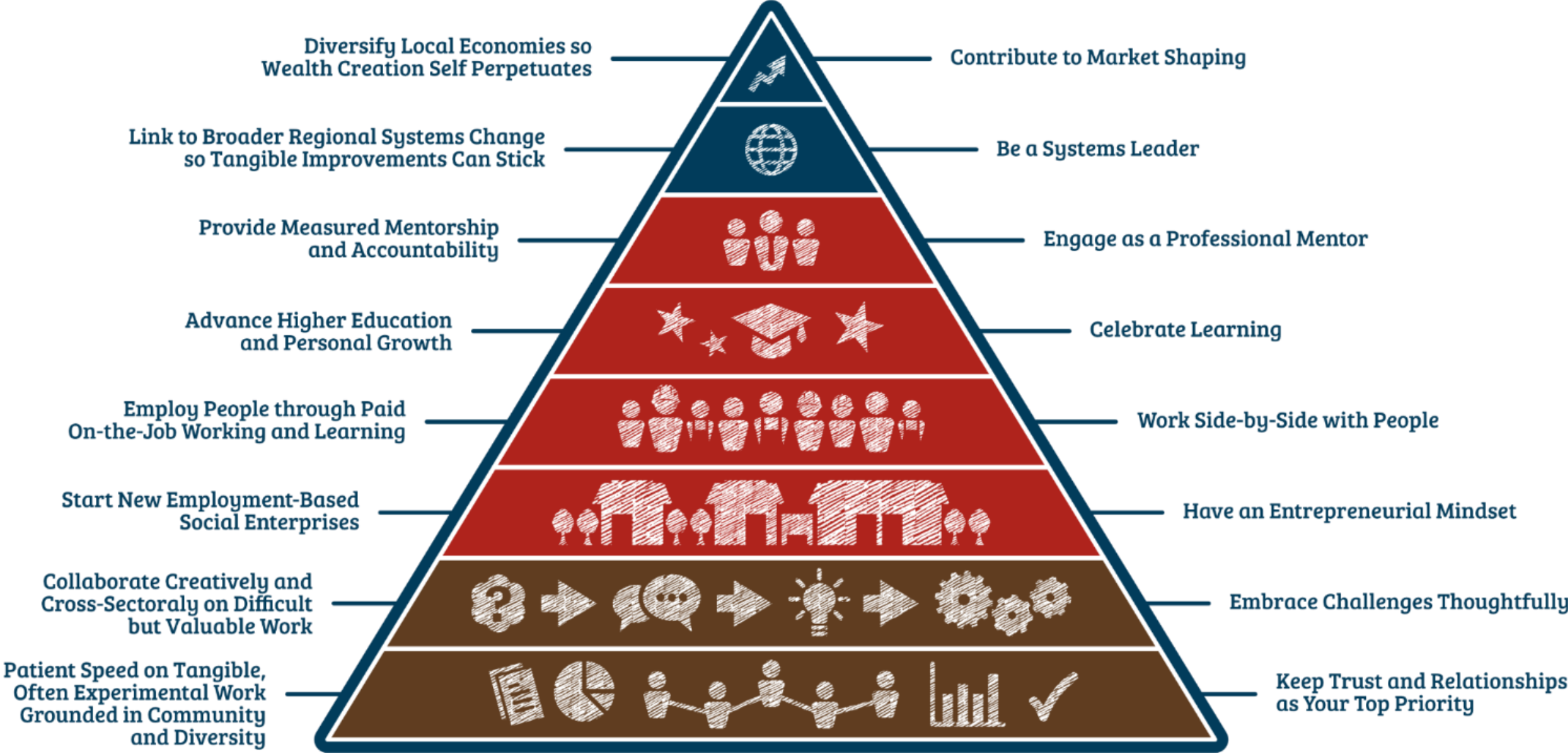


Economic



# Organizational Theory of Change for Transformation

# Team Principles to Advance the Strategies





# Coalfield Training Model

**33**

Hours per week:  
On-the-Job  
Training



**6**

Hours per week:  
In the Classroom  
pursuing an  
Associate's  
Degree



**3**

Hours per week:  
Personal  
Development

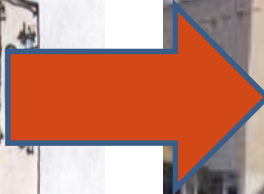


# Local People Drive Systems Change





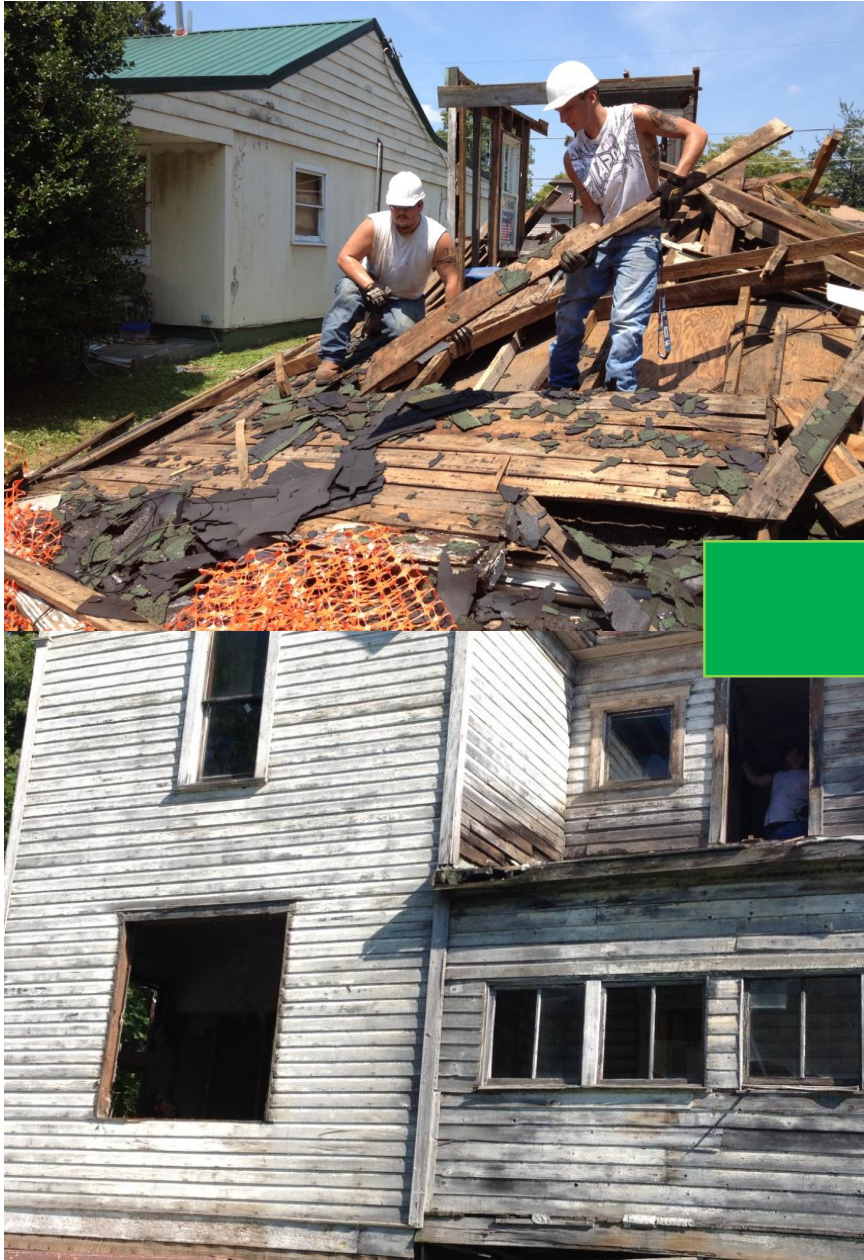
# Catalytic Transformation for Places...



# True Empowerment Opportunities for People ...

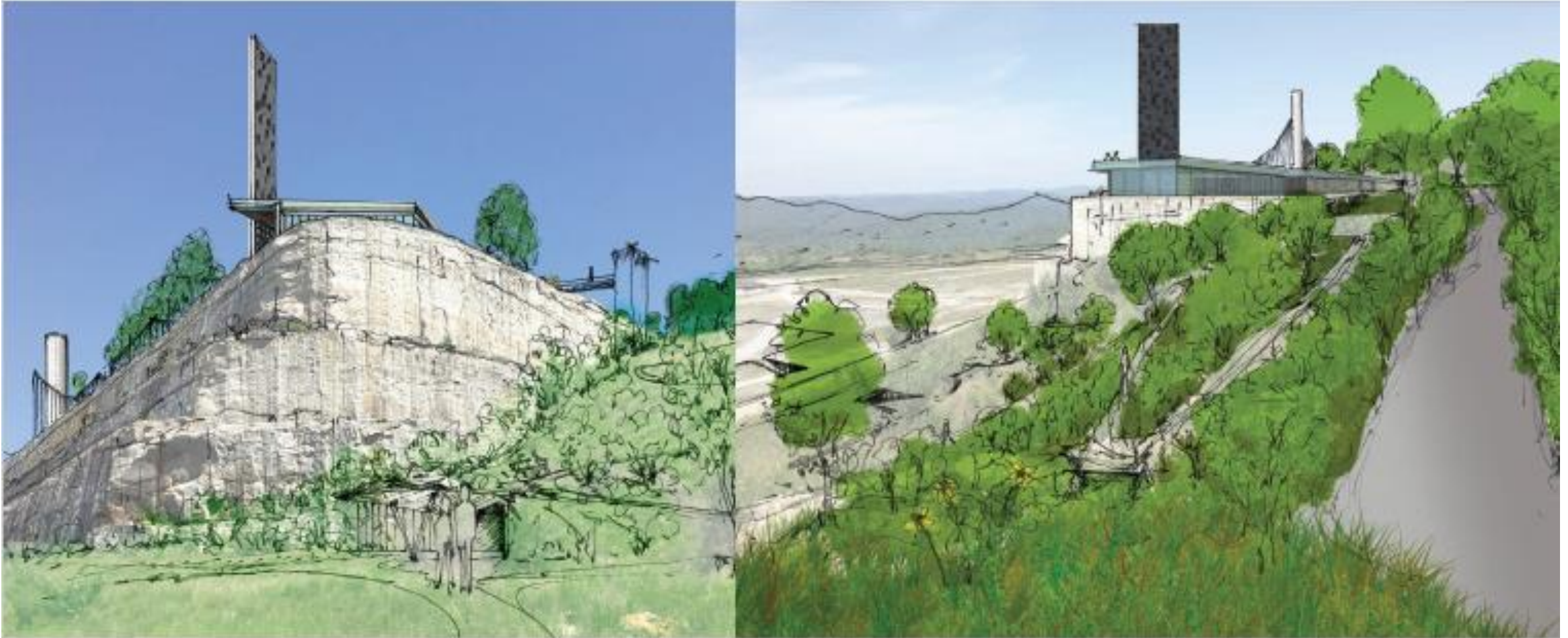








# How does this strategy tie into Innovative Mineland Reclamation..?

















# Rotational Grazing:

- Fertilizes soil
- Invasive plants are eaten
- Livestock is a product for the community
- New local market









10,500 trees  
planted







## Kermit, West Virginia

At the peak of the opioid crisis, drug companies sent 12 million hydrocodone pills to Kermit, W.Va., a town of about 350 people

Today, it is a center for aquaponic research and production









Iron oxide acid  
mine drainage  
diverted...





...And transformed into acrylic paints to be sold around the country





5,000 tires  
removed







# SOLAR HOLLER

MINE THE SUN

HARVESTING HOMETGROWN ENERGY TO REPOWER OUR COMMUNITIES





Largest non-profit solar installation in West Virginia





A fair and just transition from coal is being achieved voluntarily by the everyday normal people living in coal communities.



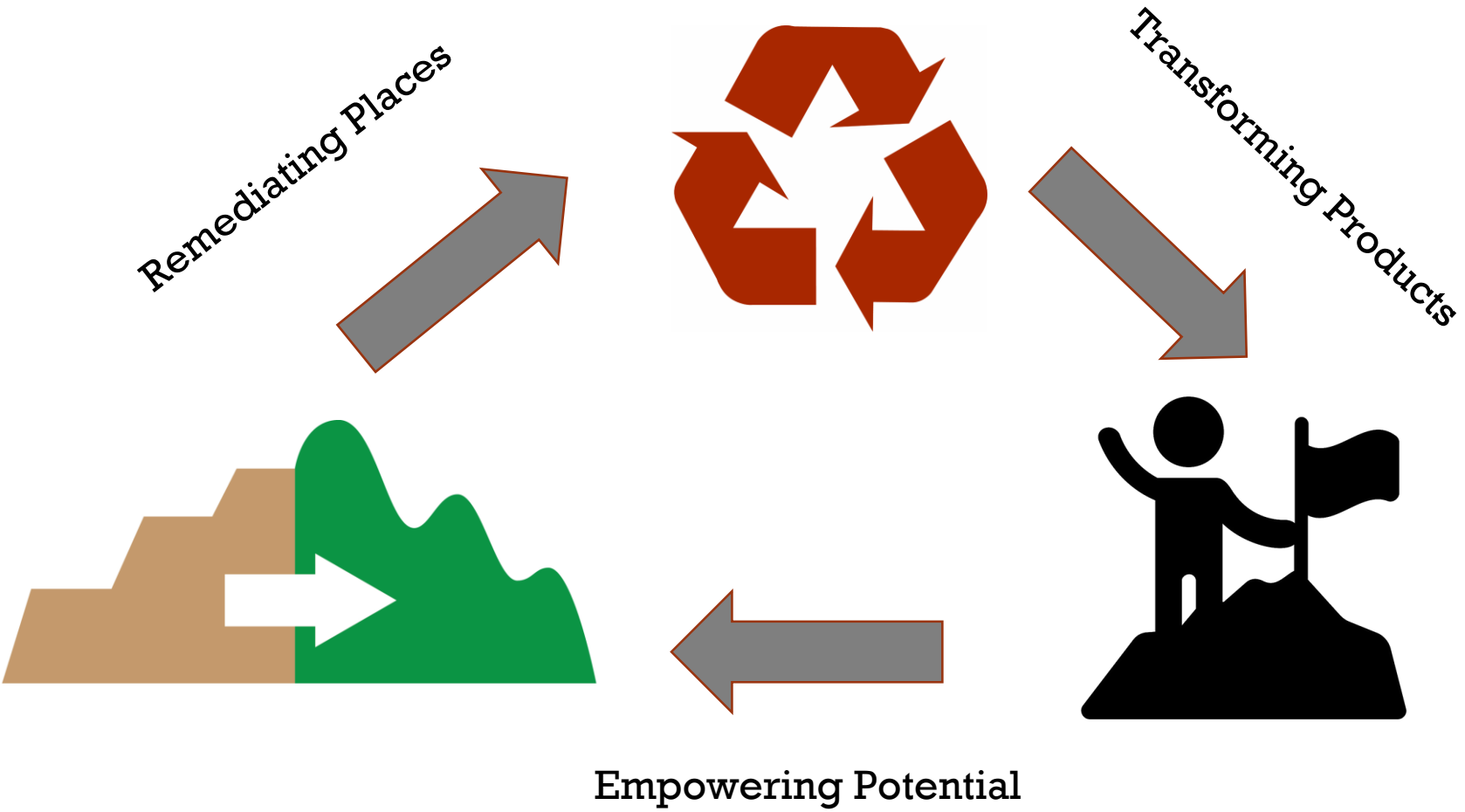


# The Results:

- **1400** People Trained in New Economic Sectors!
- **50** New Businesses Supported and Grown!
- **500+** New Jobs Have Been Created!
- **\$30M** in New Investment Attracted to the Region!
- **210K+** SQ FT of Formerly Abandoned Property Revitalized!









# THANK YOU.



Jacob Hannah  
Director of Conservation  
[jhannah@coalfield-development.org](mailto:jhannah@coalfield-development.org)  
304-614-8035