



**FOOD WASTE RECOVERY AND  
DIVERSION IN BIG SKY**

**EMPLOYERS:**

**Big Sky SNO**

**Big Sky Community Food Bank**

**YES Compost**

**INTERN: Bukola T. Fagbemi**

**P2 ADVISOR: Paddy Fleming**

**TECH ADVISOR: Braden Ball**



Name: Bukola T. Fagbemi

Major: Public Health

Career Interest:

- ❖ Health Education
- ❖ Health Policy
- ❖ Environmental health

## REASONS FOR FOCUSING ON P2



ENVIRONMENTAL  
IMPACT



REAL LIFE  
EXPERIENCE



CAREER  
ADVANCEMENT



NETWORKING



SKILL  
DEVELOPMENT

# SIGNIFICANCE OF BIG SKY SNO, BSCFB AND YES COMPOST

- Promote sustainable activities
- Divert food waste from the landfill to the food bank or compost site
- Reduce greenhouse gas emission
- Provide emergency food assistance and other social services
- Improve soil health



# ORGANIZATIONS' INTRODUCTION

## BIG SKY SNO

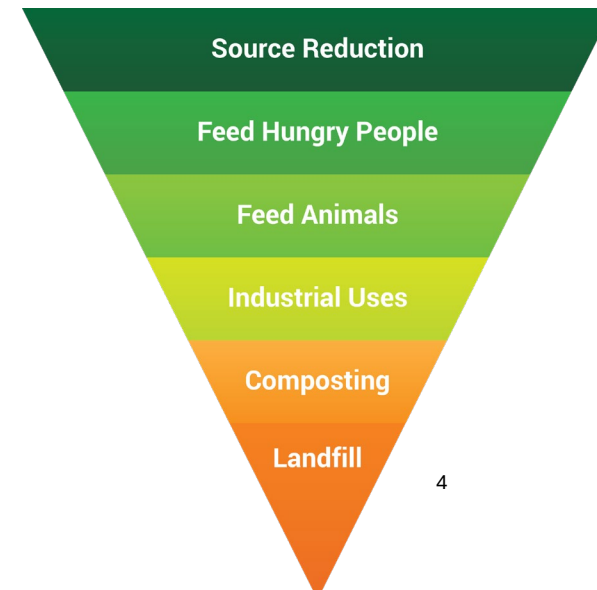
- ❖ Founded in 2021 to promote Big Sky sustainability and environmental initiatives
- ❖ Waste reduction and recycling
- ❖ Community education
- ❖ Reduce carbon emissions
- ❖ Protect environmental resources

## BSCFB

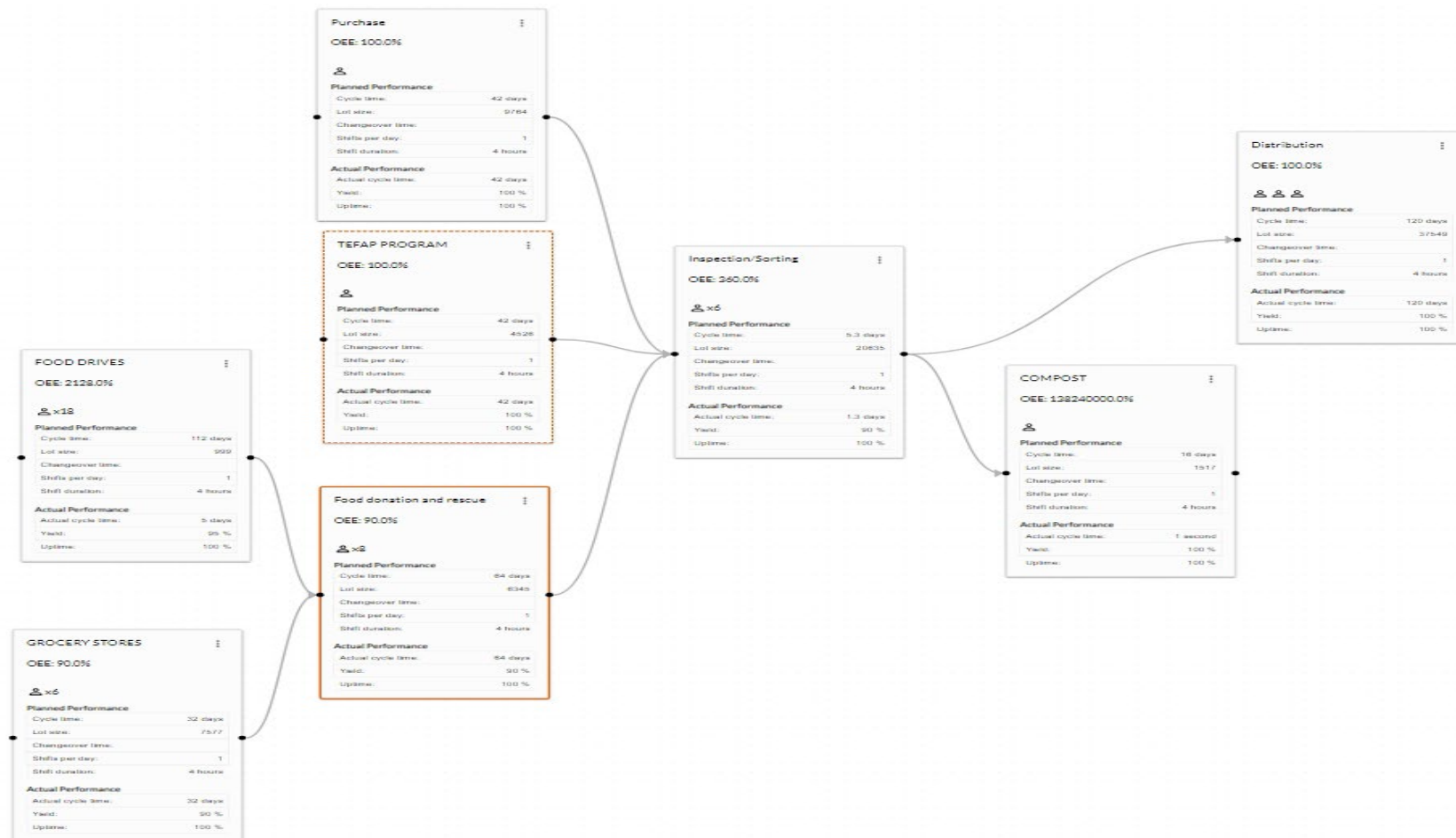
- ❖ Provide Big Sky workforce and community members with free emergency food
- ❖ Help customers navigate a wide variety of social services
- ❖ Collaborate with grocers, kitchens, volunteers and other service-oriented organizations to serve community members
- ❖ Diversion of edible food waste from the landfill

## YES COMPOST

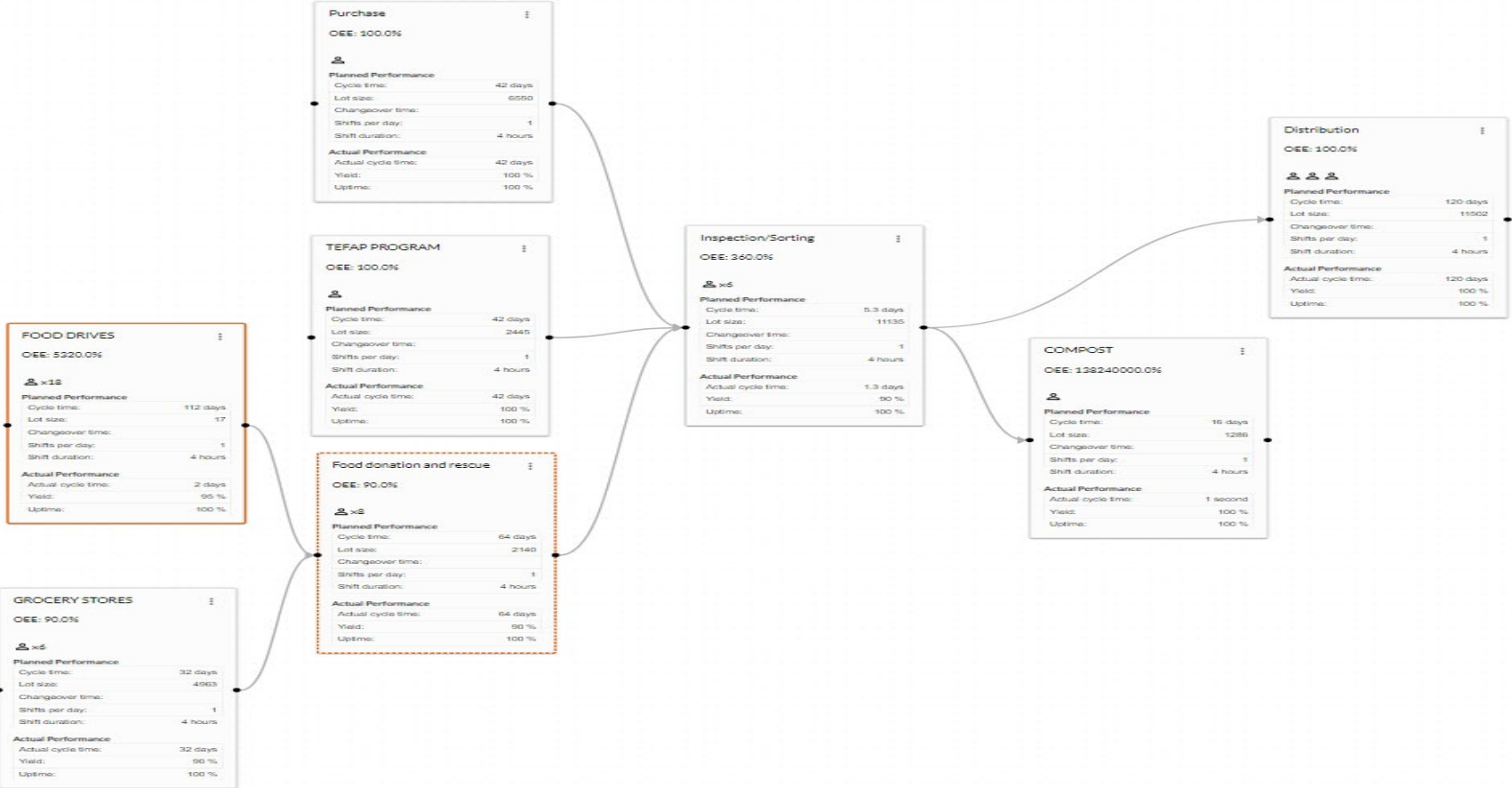
- ❖ Founded in 2018 by Karl Johnson
- ❖ Improve soil health
- ❖ Foster new plant growth
- ❖ Diversion of inedible food waste from the landfill



# BIG SKY COMMUNITY FOOD BANK VSM (WINTER SEASON)

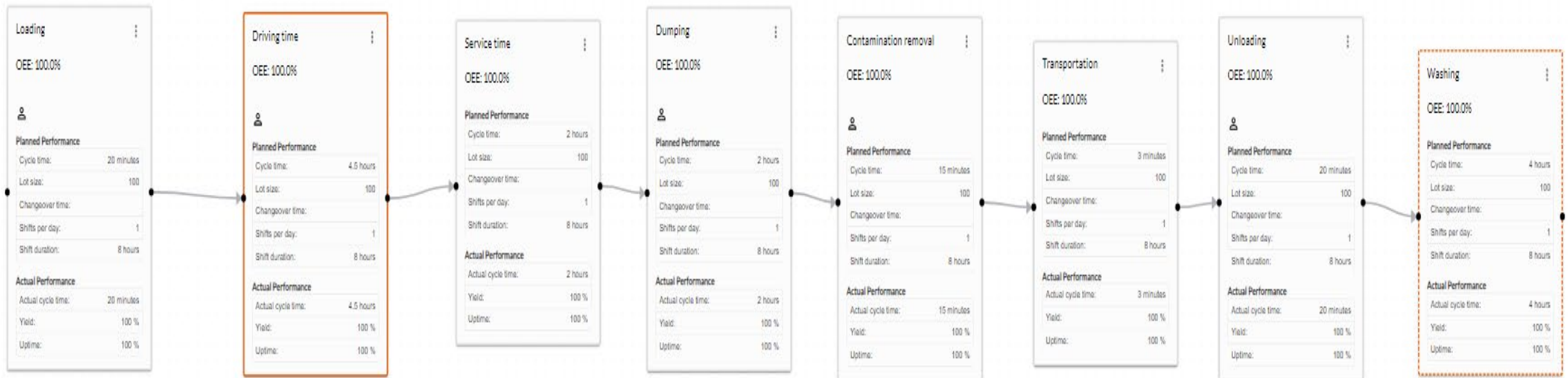


# BIG SKY COMMUNITY FOOD BANK VSM (SUMMER SEASON)



# YES COMPOST

## Collection process



# YES COMPOST

## Compost process

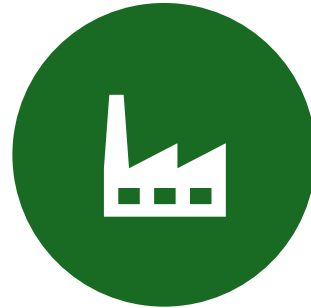




# IDENTIFIED P2 AREA OF FOCUS



DIVERSION OF FOOD WASTE TO  
EITHER THE COMMUNITY  
FOODBANK OR COMPOST SITE



REDUCTION OF GREENHOUSE  
GAS EMISSION



PROVIDE EMERGENCY FOOD  
ASSISTANCE AND OTHER  
SOCIAL SERVICES



IMPROVE SOIL HEALTH

# TRIALS AND RESULTS

- ❖ Designed educational signages and posters
- ❖ Educate community members about proper garbage disposal
- ❖ Drafted a food recovery implementation plan

- ❖ Collaborated with BSCFB and Big Sky SNO to shoot an educational video about food recovery
- ❖ Interviewed inventory managers at grocery stores on how to prevent food waste

- ❖ Carried out research on how other food banks manage food waste



**Wish List**

Shelf-stable, non-perishable, unopened, full and sealed items. Do not include: eggs, dairy, seafood, frozen meats, frozen condiments and sauces, condiments, oils, nuts, nut oils, coffee, pasta, soups, can vegetables, etc.

**Acceptable Food Items & Donation Guidelines**

• Canned goods - within date of expiration / unopened  
 • Manufactured items - within use-by/expiration date  
 • Fresh items - within the year / best-by/expiration date  
 • Refrigerated items/Perishables - unopened / within best-by date / have been kept temperature appropriate  
 • Meats / Dairy / Eggs / Seafood - unopened / within best-by date / have been kept temperature appropriate  
 • OC accept unopened, unexpired, unexpired and otherwise items in good condition

**Drop Off Locations**

- The County Market
- The Book Store
- Big Sky Chapel
- Big Sky Community Library
- Country Market
- Old Big Sky
- Big Sky Community Food Bank
- Mountain Lodge
- Mountain Market
- Big Sky Center for the Arts
- Country Market / Super on the Mountain (in the Exchange building)

**Unacceptable Food Items**

• Opened packages  
 • Any product that has been treated and refrozen  
 • Perishable foods in the danger zone (41° - 142°F) for more than 2 hours  
 • Food served to customers or food returned from any agencies  
 • Salads  
 • Soft-serve ice cream and other dairy products  
 • Sealed packages wrapped in foil or stored in sunlight  
 • Any other

**YOU CAN:**

- DONATE
- VOLUNTEER
- SUPPORT AND
- COLLABORATE

LOCATE US:  
 PO Box 160965  
 47995 Gallatin Road #201  
 Big Sky, MT 59716  
 Ph: 406-995-3088

VISIT OUR WEBSITE

**Are you having a food emergency? Pick up free food items**

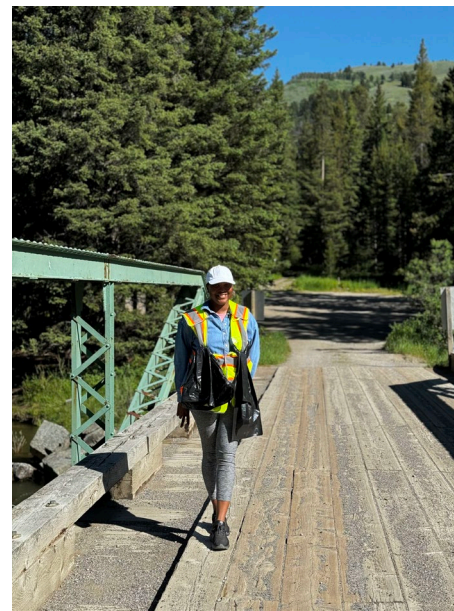
**WORKING HOURS**

Tuesday : 3pm - 7pm  
 Wednesday : 11am - 3pm  
 Thursday : 3pm - 7pm  
 Friday : 11am - 3pm

**WE ARE CLOSED SATURDAY, SUNDAY AND MONDAY.**

LOCATE US:  
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 Ph: 406-995-3088

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**SHORT TERM GOALS**

- Create awareness of the foodbank using posters in community locations
- Post signage of acceptable and unacceptable food items in key places
- Engage local organizations for a YES Compost Bucket Exchange Location.
- Educate on the difference between expiration and best-before dates
- Share food safety, storage, and waste tips on social media
- Strengthen relationships with grocery stores, property managers, and business owners

**LONG TERM GOALS**

- Improve access to rescued food in food desserts areas using mobile food trucks
- Build community kitchen facilities
- Build and utilize a mobile app for Food Rescue Coordination, particularly from donors and event spaces
- Organize cooking competitions or events using rescued food

Developing a scalable food recovery implementation plan is essential for Big Sky SNO and YES Compost's missions to reduce food waste and its environmental impact while improving food recovery at the Big Sky Community Food Bank. Through strategic partnerships and adherence to the EPA's Food Recovery Hierarchy, these three organizations can create meaningful change in the community. By diverting edible food to those in need and enhancing composting efforts for inedible food, the organization can significantly reduce landfill waste, lower greenhouse gas emissions, and promote a sustainable community.

**yes compost**

NO PLASTIC, GLASS, OR METALS

# P2 OUTCOMES (TABLE)

Recommended P2 Actions	If Implemented:				If Not Implemented:	
	\$		Annual Reductions			
	One-time Cost to Implement (\$)	Annual Savings from P2 Actions (\$)	Air Pollution	GHG Emission (tons)	Barrier to Implementation	Plans to Implement within 5 years? (Pick Y/N)
On-truck washing	TBD	14,911	-	-	Funds	Y
Food recovery app	TBD	-	-	-	Funds	Y
Educational signage	-	-	-	-	-	Y
Community kitchen	TBD	-	-	-	Funds	Y

# REFLECTION AND RECOMMENDATIONS

## Personal Learning

- ❖ Value Stream Map
- ❖ Environmentally sustainable actions
- ❖ Signage design
- ❖ Food recovery implementation plan
- ❖ Greenhouse gas emission reduction
- ❖ Composting process

## Recommendations for future P2 intern

- ❖ Ask questions
- ❖ Be prepared to step outside your comfort zone
- ❖ Be open and adaptable to changes

## Recommendations for P2 Advisors

- ❖ Assign a separate intern to the compost site
- ❖ Emphasize more on the VSM and food recovery process during training (if applicable)

# ACKNOWLEDGEMENT



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**LAND ACKNOWLEDGEMENT:**

“Montana State University is located upon the homelands of indigenous people: people with proud heritage, a vibrant present, and a bright future. We acknowledge the Assiniboine, Blackfeet, Chippewa Cree, Crow, Gros Ventre, Little Shell, Northern Cheyenne, Pend d’Oreille, Plains, Cree, Salish, Sioux, Hidatsa, Mandan, Arikara, and the other indigenous nations of this region in the past, present, and future. We recognize that this rich human tapestry is central to our institutional mission of learning, discovery, and engagement.”

THANK YOU

