

# SOIL FOR WATER FINAL EVALUATION

**Welcome!**

We'll get started soon!



NATIONAL CENTER  
FOR APPROPRIATE  
TECHNOLOGY



jg | RESEARCH &  
EVALUATION

## *KNOWLEDGE SYSTEM MAPPING GOALS*

**1**

Visually generate regenerative grazing network in Mississippi

**2**

Evaluate changes in attitudes, behaviors, and knowledge

**3**

Capture lessons learned from the project

## BEFORE: DEFINING "REGENERATIVE GRAZING"

Needs to  
be simple  
but  
convincing

*"Getting back to nature...releasing the dogmatic approach  
and letting nature be itself"*

**Enrich soil, reduce erosion**

**stockpile forage**

**Rest and recovery of pasture**

Balance of soil nutrients and  
adapted forage systems

**Soil for Water** definition: grazing  
that improves soil health

introduction of different grass  
varieties/reintroduction of native species

**Careful management of  
cattle; moving frequently**

More detailed  
definitions  
needed -  
almost a  
dictionary



# AFTER: DEFINING "REGENERATIVE GRAZING"

Diversification  
(example of  
forest farming)

How do you define it  
to others?

It is what our  
grandparents  
and great-  
grandparents  
did

Traditional  
agriculture - soil  
health, water health  
- is taking care of the  
earth and being  
stewards

How important is it to have a  
shared definition of  
"regenerative grazing"?

Rotational grazing  
interchangeable  
with regenerative  
(soil is  
regenerating via  
rotating animals)

Keep it simple -  
rotating animals,  
soil and grass can  
rest and grow  
back

Words might  
change but "it's  
not changing the  
type of farming  
we are doing"

Balancing herd  
size with land  
area/  
availability

It is a  
spectrum -  
requires  
practice and  
time

Need to  
avoid  
confusion

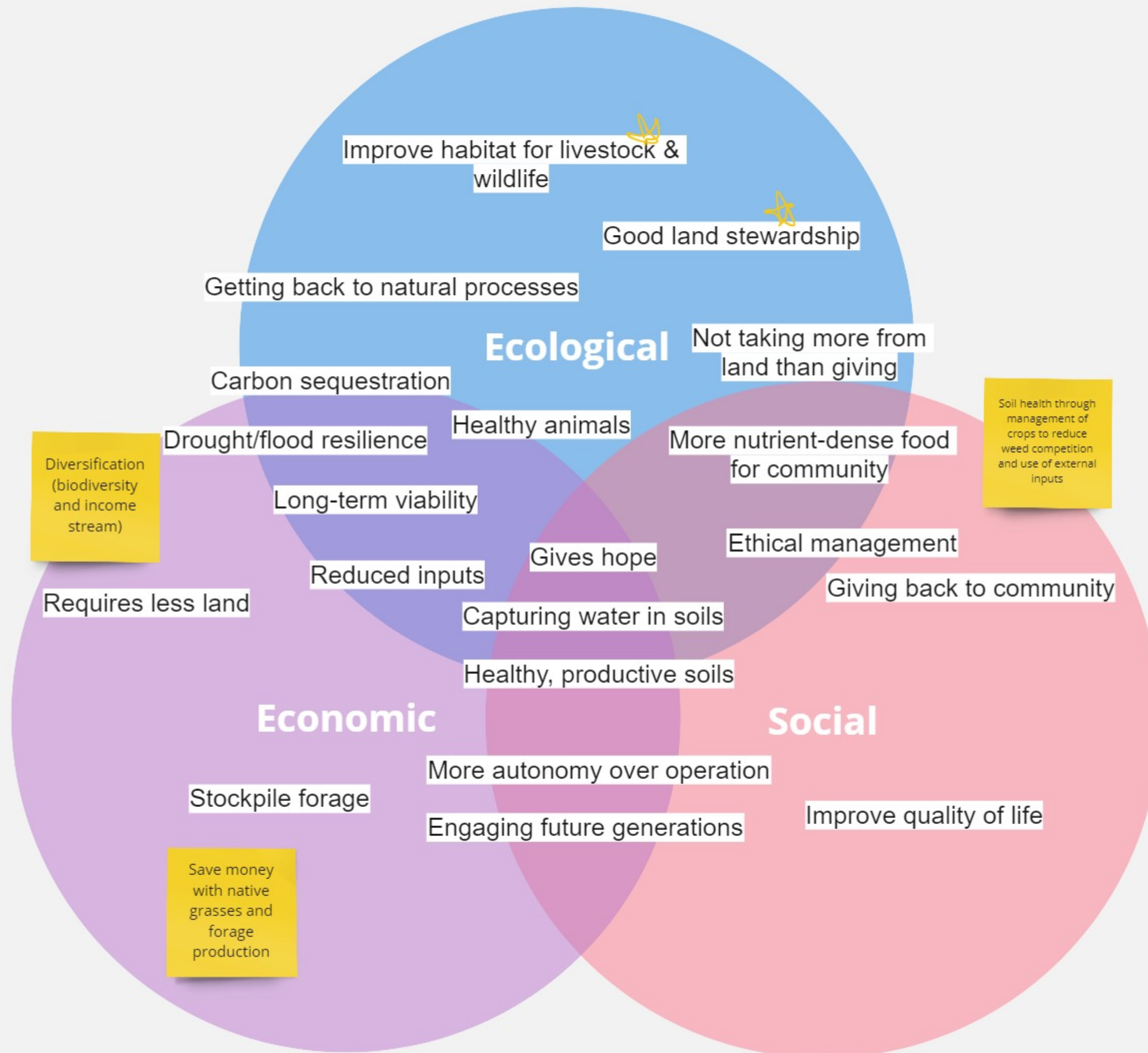
Shared definition and  
including history and  
common actions (with  
recognition of where  
they come from)  
needed to avoid  
excluding people

Weed  
management and  
shifting away  
from spraying is  
one component

Economic  
efficiency - extend  
growing season  
and put a  
"paddock in the  
bank"




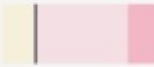


Is it just  
another  
name for  
'holistic ag'?


# MOTIVATIONS FOR ADOPTION OF REGENERATIVE PRACTICES





# BARRIERS TO ADOPTION

Item	<b>BEFORE</b>	Overall Rank	Rank Distribution
It goes against the status quo		1	
Lack of hands-on training and/or mentorship opportunities		2	
There is a steep learning curve		3	
It is perceived as labor-intensive		4	
Lack of evidence/information about the benefits of adoption (financial, environmental, etc.) /Lack of awareness		5	
High initial investment cost		6	



Lowest Rank | Highest Rank

How has your understanding of barriers evolved?

There is no labor surplus/help so if perception is that it's labor-intensive then they won't even try

Contemporary orientation toward systems that use more equipment and inputs, and less labor

Land access and balance with number of animals

How has the project addressed these barriers?

Need to communicate that the practices aren't different

Keep it simple, communicate clearly, connect to history

Lay out how it can be simple and straightforward it can be

Learning makes it less daunting

# FACILITATORS OF ADOPTION

Promotion by universities, research groups

Mentorship by experienced regenerative grazier

Hands-on learning opportunities (e.g. workshops and trainings)

On-farm learning opportunities (e.g. pasture walks)

Trusted educator/messenger

Participation in grazing groups

Scientific research and evidence on the benefits of regenerative

Promotion by agencies (e.g. NRCS, Extension)

Others?

Keeping it simple

Needs to be hands-on and visual

See to believe

Which ones rise to the top in MS?

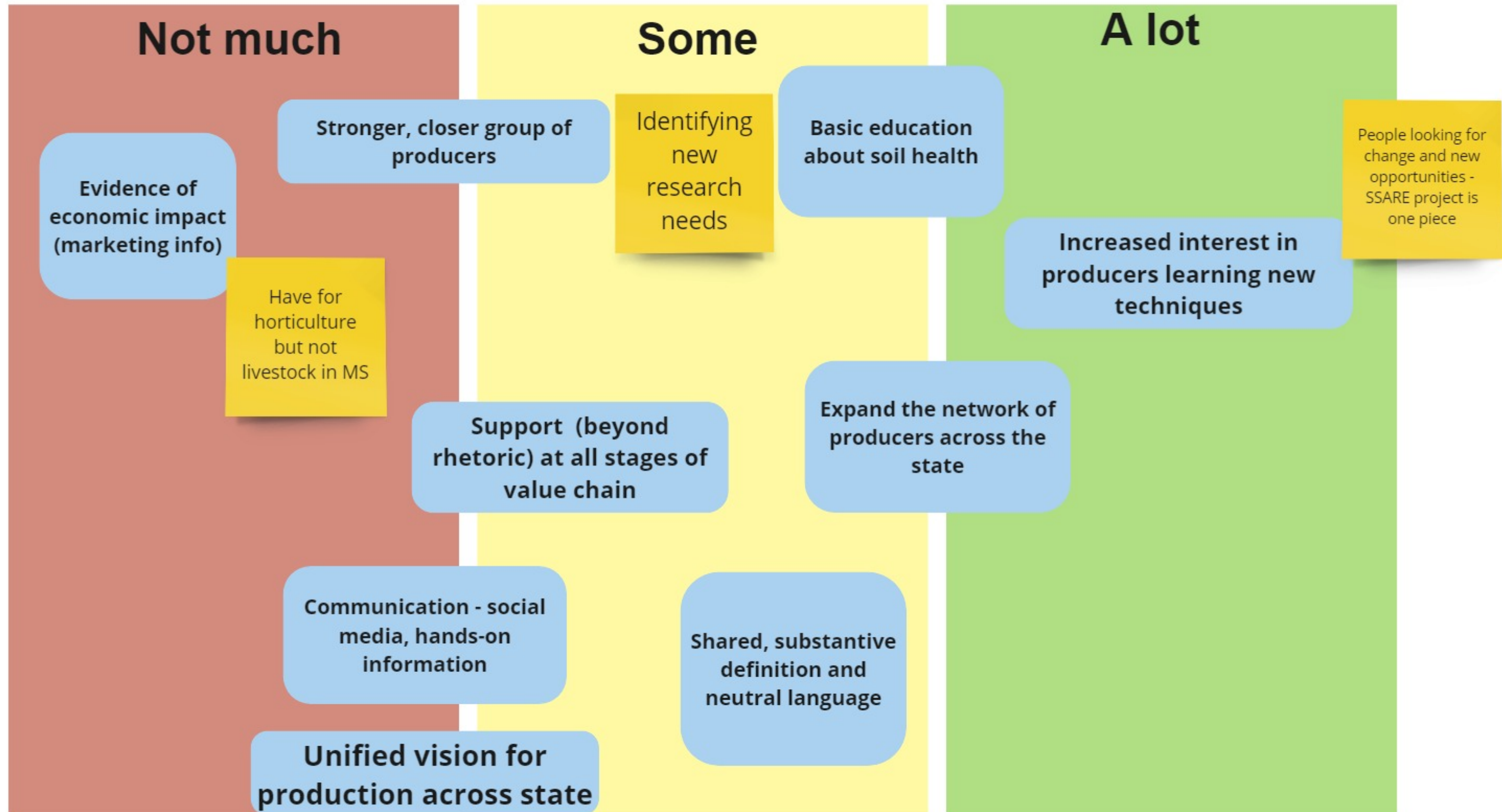
Would like this to grow/rise - look at AR model

Farmers helping farmers - connects to on-farm learning





# PROGRESS ON PRIORITIES FROM FIRST MAPPING





# BEFORE

**KEY**

**ACTORS**

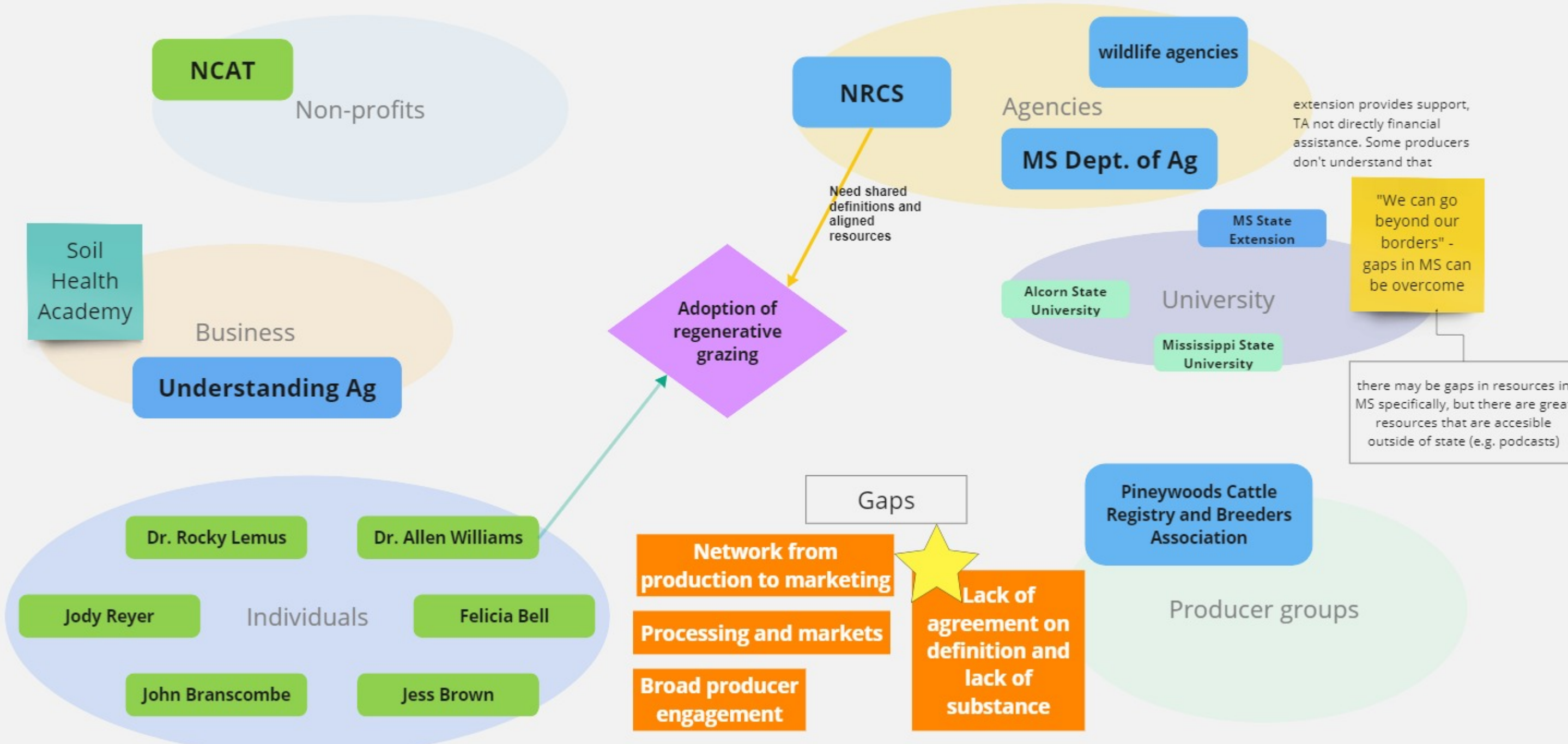
- Leading the way
- Room to improve
- Both

**RELATIONSHIPS**

- Provides Resources (\$, time, etc.)
- Provides research/evidence
- Provides training/mentorships

Strong  
Neutral  
Weak

**Gaps**



# AFTER

**KEY**

**ACTORS**

- Leading the way
- Room to improve
- Both

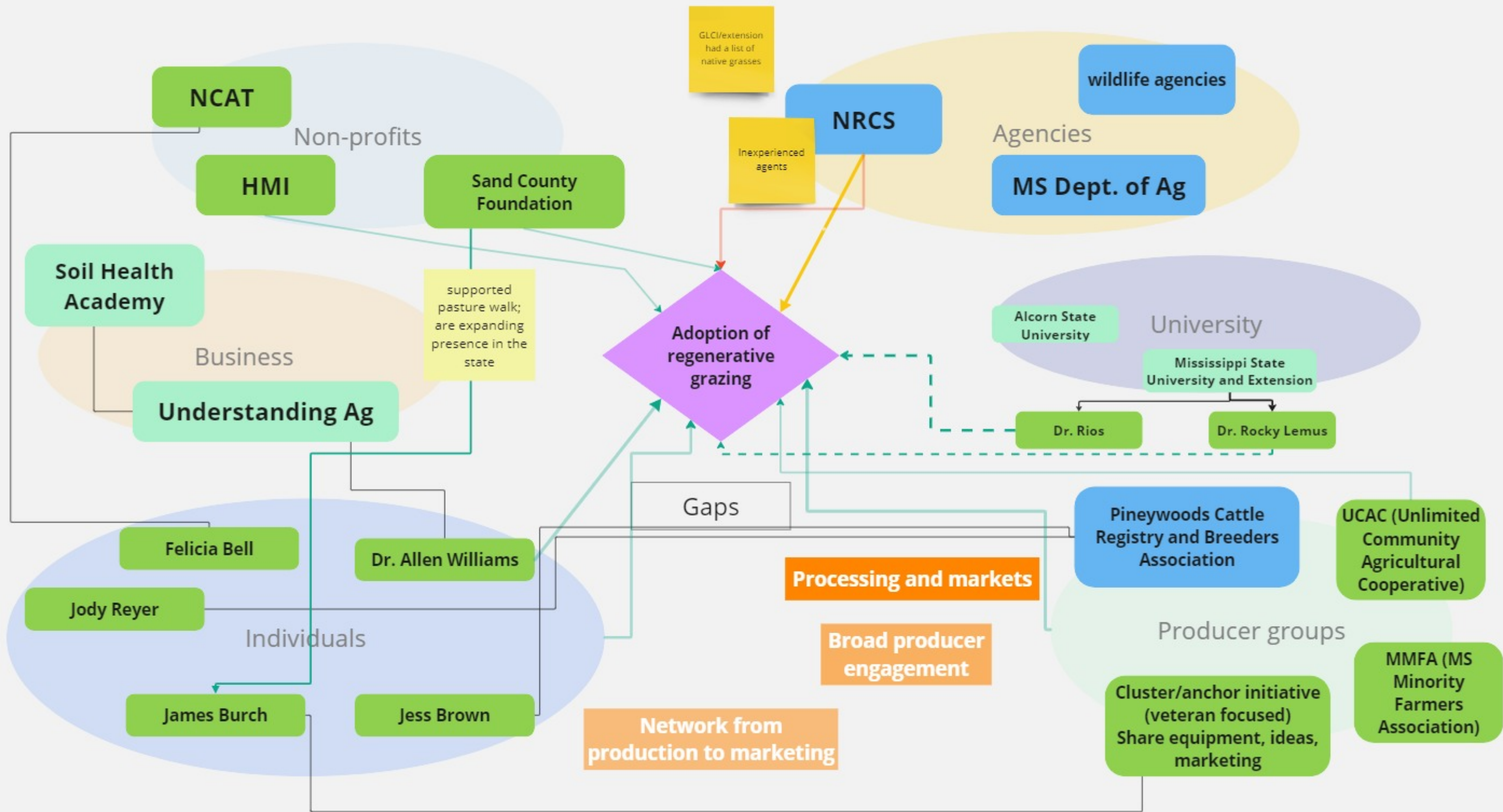
**RELATIONSHIPS**

- Provides Resources (\$, time, etc.)
- Provides research/evidence
- Provides training/mentorships

**Strength**

- Strong
- Neutral
- Weak

**Gaps**





# WHAT'S NEXT?

## How can the work continue?

New practices like forest farming, no-till drill

Connect the dots across states

Building evidence base

Build farmer cluster model

List of native grasses and forage crops

Producers need to have skin in the game - sweat equity

Field days with local producers

Fields days with experts from other states

Working with old-timer producers to re-find resources

Work with non-adopters and demonstrate implementation

NRCS collaboration in combining training for producers and NRCS agents new to the field

## Who needs to be involved?

Adopters AND non-adopters

Young/new and beginning people

Subject-matter experts (extension, non-profits)

Funders

Experts (researchers and producers) from other states

NRCS decision-makers (not more junior staff)

LA producer group, AR grazing group

Preferably with hands-on experience

**THANK YOU!**

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**Send any additional thoughts/feedback to us or Felicia**



## Mississippi: final knowledge mapping summary

### **Definition of regenerative grazing**

- Similar definitions to Before, but more discussion of the social and cultural aspects of it
- Discussion about it being a new word for an old practice, want to be sure not to exclude people in defining it while also nodding to ancestors/those who came before who were working regeneratively
- What matters is conveying the benefits of regenerative in a simple, easy to understand way
  - o It's working with what you have, it's more economical, and it's caring for the land
  - o Emphasis on the fact that it's not one-size-fits-all, but it's a spectrum and it requires patience, practice, and time
  - o It's not just one part, it's the whole system

### **Barriers to adoption**

- MS group didn't complete survey prior to final mapping exercise, were asked to reflect on barriers ranking from initial mapping
- Additional barriers: land access; contemporary orientation toward systems that rely on equipment rather than labor; labor is also scarce so if it's perceived as labor-intensive, it's a non-starter
- MS group has made progress on breaking down barriers:
  - o status quo—helping producers see that it's actually not different, it's something they have the capacity to do. There is a growing network of producers helping to spread the word about regenerative
  - o more learning opportunities—has helped to make it feel less daunting, producers can see it being done and how simple it can be

### **Facilitators of adoption**

- Emphasized hands-on learning and on-farm learning opportunities
  - o Sitting in a classroom or on Zoom doesn't resonate
- Interested in developing a grazing group like AR's GGG, farmers helping farmers connect to on-farm learning opportunities
- Underscored that producers need to see it to believe it, education opportunities need to be hands-on and visual

### **Progress on priorities**

- Not much: evidence of economic impact (have this for horticulture, but not livestock in MS), communication (social media, hands-on info), and unified vision for production across state
- Some: stronger, closer group of producers, support at all stages of value chain, shared/substantive definition and neutral language, identifying new research needs
- A lot: basic education about soil health, increased interest in producers learning new techniques—there's a sense that people are looking for change, wanting to do something different, Expand the network of producers across the state,

## Map

- New actors:
  - o Non-profits: HMI, Sand County Foundation (supporting pasture walks, expanding presence in MS)
  - o University: under MS State and extension: Dr. Rios, Dr. Rocky Lemus
  - o Producer groups: Unlimited Community Agricultural Cooperative, MS Minority Farmers Association, Cluster/anchor initiative (Mr. Burch)
- New partnerships: NCAT/HMI, Sand County Foundation/James Burch/Cluster/anchor initiative,
- NRCS interactions still a challenge—inexperienced agents
  - o They need training/expertise, too
- More available region-specific research/evidence, training and mentorship opportunities, more organizations supporting on-farm/hands-on learning opportunities, technical assistance/more support from Extension

## What's next

- To continue work:
  - o Connect dots across states/leverage models from other states
  - o Keep building evidence base
    - List of native grasses, forage crops
  - o Field days with local producers and experts from other states (don't need to be confined by MS)
  - o Collaborating with NRCS to offer train the trainer events, help new agents learn alongside producers
  - o On-farm/demonstrating opportunities for non-adopters
  - o Work with old-time producers to rediscover/document traditional practices that may otherwise be lost
    - Pass the torch
  - o Connect with young producers—they are looking for fellowship
  - o Producers need to have skin in the game, too—they need to be putting in sweat equity and sharing the lessons learned with others
- Who needs to be involved:
  - o Potential funders, NRCS decision-makers (not just junior staff)
  - o Subject matter experts
  - o Young and new/beginning farmers
  - o Adopters and non-adopters
  - o LA producer group

## Overall observations

- There are more producers involved with sharing their regenerative journey, breaking down barriers
- There's more interest/energy/buzz around regenerative practices
  - o Opportunities moving forward
  - o Important to reach young, new/beginning farmers



- There is more support for producers looking to learn about/connect with resources for regenerative
  - o HMI RAMP program
  - o MSU Extension: Dr. Rios & Dr. Lemus
- People involved in SSARE project have found that the simpler the explanation, the easier it is to bring people on board
  - o From a common sense standpoint, regenerative practices resonate with people
  - o There is interest in caring for land, reducing off-farm inputs, increasing profitable
- Agency support continues to be a major challenge, in large part because agents are often inexperienced, don't have the training to support producers interested in regenerative practices
  - o Untapped resources/funding for producers
- A collective approach is powerful, but it requires producers getting involved/leading the way
  - o E.g. James Burch's cluster/anchor initiative project