

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 Virginia

2

Evaluate changes in attitudes, behaviors, and knowledge

3

Capture lessons learned from the project

BEFORE: DEFINING "REGENERATIVE GRAZING".

"Land stewardship with animals that heals the land, enriching soils and protecting waters."

Healing for self-renewal, self-regulating; systems thinking

improves/maintains/rebuilds soil health

Resilience-
"weather the weather"

producer mindset

Vast majority of VA producers likely not familiar with term

important to build common definition

producing optimum forage with minimal inputs

Rest and recovery of pasture

"A philosophy of coexistence, as opposed to exploitation"

Soil for Water definition: grazing that improves soil health

Mimicking socioecological systems

Diversity

regeneratively managing the primary resource: The Soil

AFTER: DEFINING "REGENERATIVE GRAZING"

+
Social
Cultural
Economic
considerations

Intentional grazing with regular rotations for **benefits to soil, forages, livestock, wildlife, and water quality.**

A continual process and journey, not a destination. Considers:
- quality of life for people, animals, and the ecosystem
- soil health
- returns on investment
- farm profitability
- community well-being
- natural resource protection and restoration
- the needs of present and future generations as a holistic approach to management.

Utilizing livestock movement and forage rest periods in a way to **promote diversity above and below ground, building soil health and increasing ecological synergy.**

adaptive management of **variable densities** of livestock and **long recovery** periods to achieve **intentional disturbance** to **increase biodiversity and soil health**

Ecological farming

system that **continuously builds soil health** with **balancing economic and cultural values** to sustain the system.

Grazing that leaves the land and soil better than it started while also emphasizing the economic and social wellbeing of the farm and community.

Short duration graze followed by long term recovery.

A continual process and journey that considers:
- ecosystem dynamics
- soil quality/health
- livestock care
- farm profitability
- climate resilience
- holistic thinking.

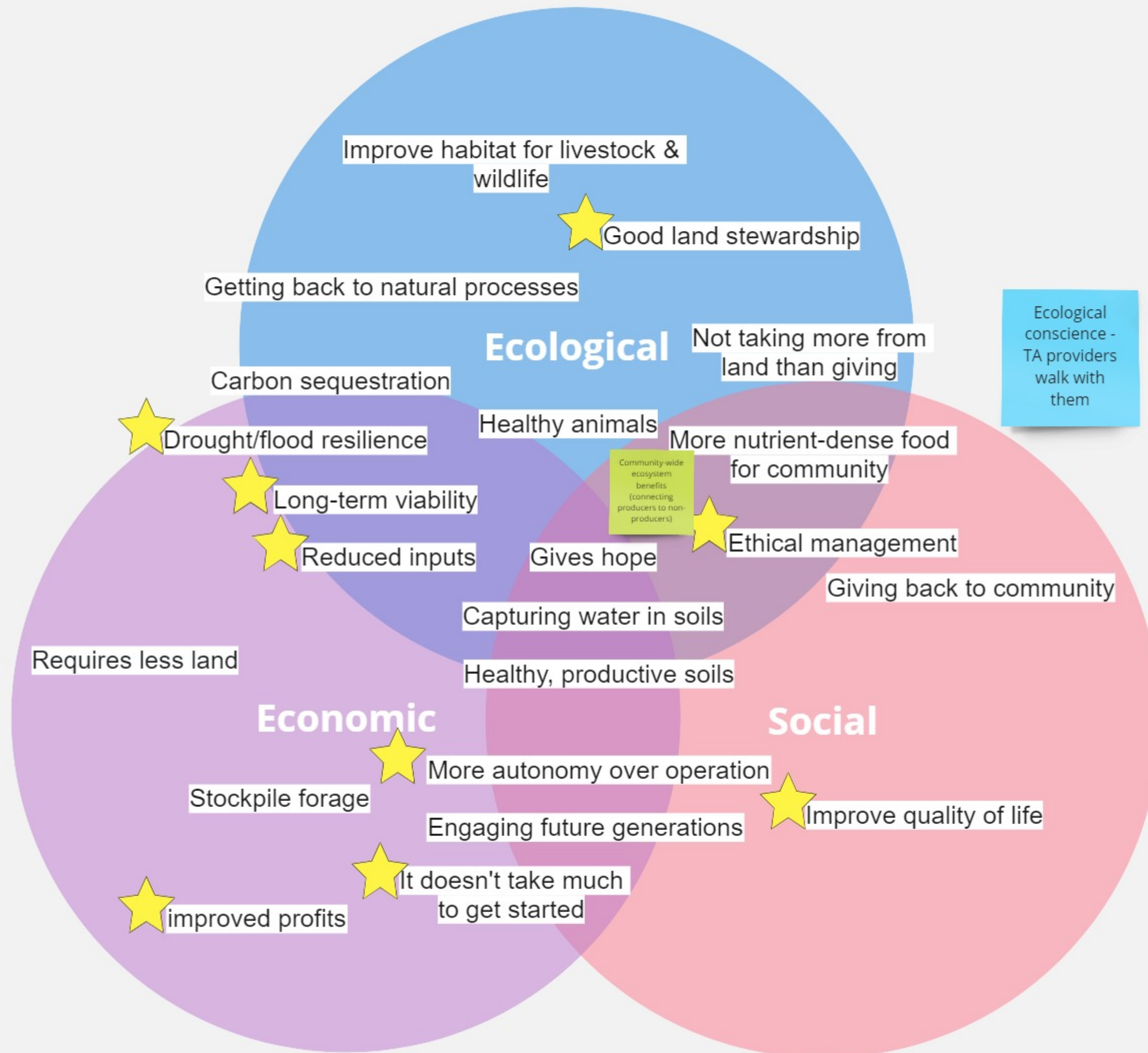
Producer mindset - "ecological conscience" - adaptive, systems-focused, active decision-making

It's a path not a destination - not prescriptive or punitive

Producer autonomy

Words and definitions matter - what is regenerative versus other words (sustainable, ecological)?

MOTIVATIONS FOR ADOPTION OF REGENERATIVE PRACTICES



BIGGEST BARRIERS TO ADOPTION

Fear of the unknown

Perception that it's a lot of work

Reliance on off-farm jobs for livelihood and healthcare

Reluctance to change from conventional

Very little support from agencies and institutions that have pushed conventional for decades

Labor and time commitment--upfront investments

How has your understanding of barriers evolved?

Reluctant to change practices when selling into low-bar commodity chain (beef)

Lack of local/regional processing for direct-to-consumer or more local markets

Hard to keep product segregated to maintain value-add of regenerative practices

Hard to reach producers who don't farm as primary occupation - night meetings used to work but less so now

Lack of resources for underserved producers

Input companies have profit motive which means using more inputs, not fewer as in regenerative

Extension is more focused on programming from input suppliers

How has project addressed barriers?

Create case studies that explain how to overcome barriers

Capacity building - dedicated track at conferences for regenerative grazing

FACILITATORS OF ADOPTION

Item	Overall Rank	Rank Distribution
Mentorship by experienced regenerative grazier	1	
On-farm learning opportunities (e.g. pasture walks)	2	
Hands-on learning opportunities (e.g. workshops and trainings)	3	
Trusted educator/messenger	4	
Participation in grazing groups	5	
Scientific research and evidence on the benefits of regenerative	6	
Promotion by agencies (e.g. NRCS, Extension)	7	
Promotion by universities, research groups	8	

Cost share

TA

Case studies - financial return on investment

Access to up front capital & resources

Market assistance and resources to diversify/sell direct

How has your understanding of facilitators of adoption evolved?

TA provider support - walking along the path with producers

Needs to be flexible, non-prescriptive

Need a shorter, clearer definition to call people in

Local purchasing for food banks and other local institutions - supported by grant funding and public dollars

Resources to support training and outreach that doesn't just come from input suppliers and conventional system

Avoid co-ops! / conventional mindset

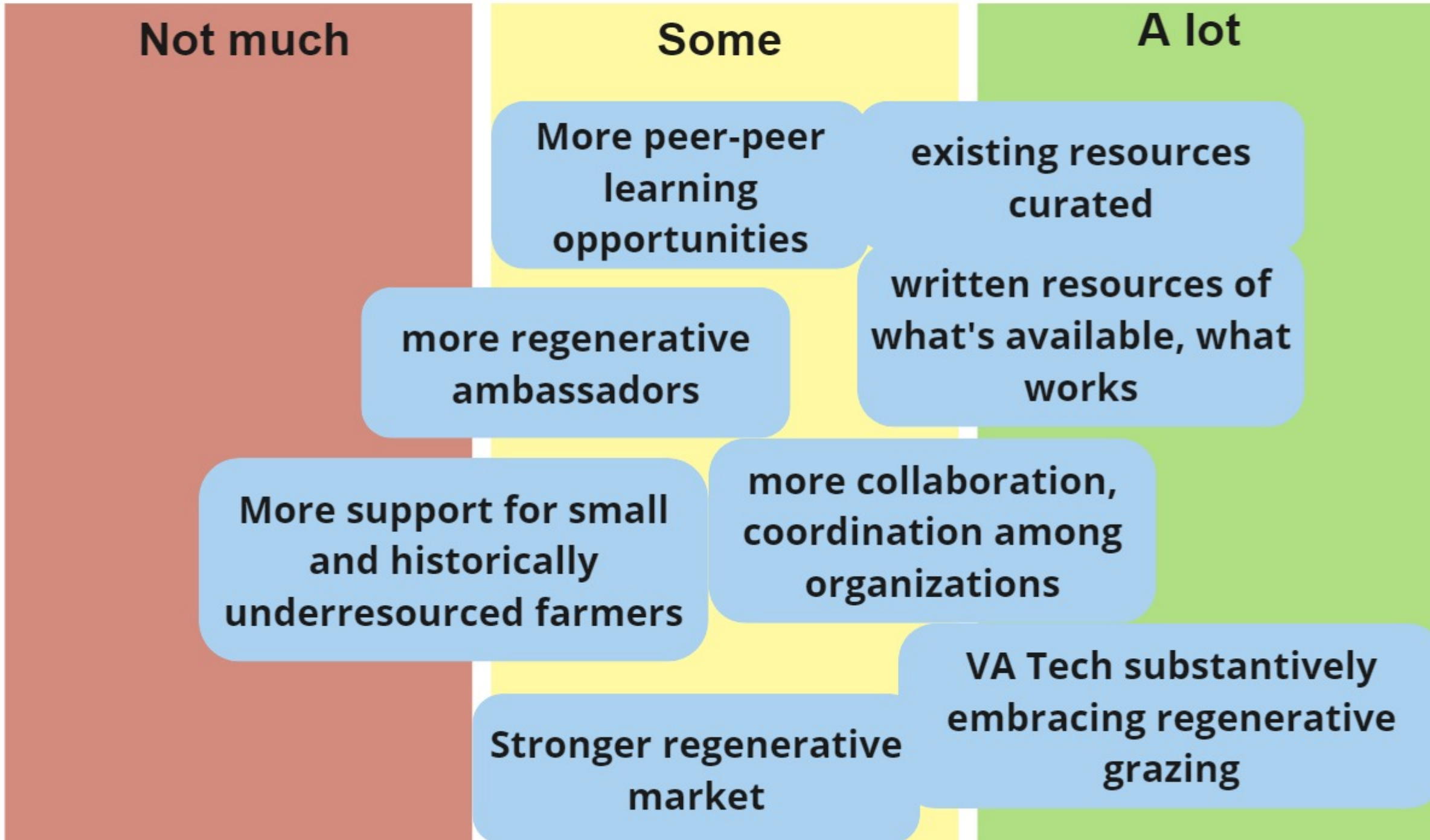
How has project supported facilitators?

Conference sessions and resources focused on regenerative grazing

Uplifting organizations and building partnerships focused on producer engagement

Train the trainer events - extension, NRCS agents

PROGRESS ON PRIORITIES FROM FIRST MAPPING



AFTER

KEY

ACTORS

Leading the way

Room to improve

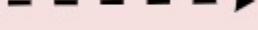
Both

RELATIONSHIPS

Provides Resources (\$, time, etc.)



Provides research/evidence



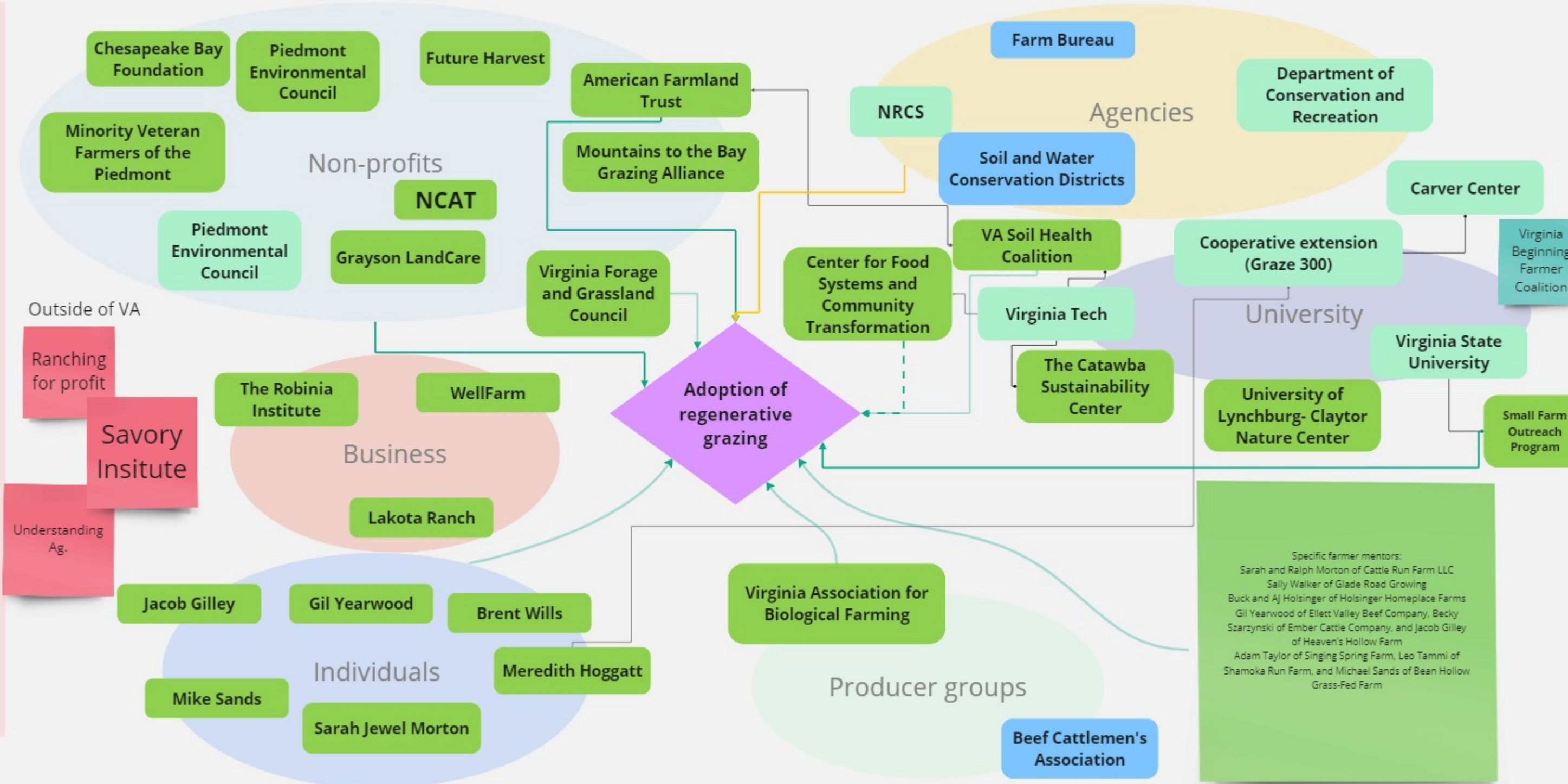
Provides training/mentorships



Strong

Neutral

Weak



WHAT'S NEXT?

Are you interested in continuing to collaborate w/ your state beyond the project?



How can the work continue?

Continued farmer-farmer network building

on-farm experiments and workshops

Expand Soil for Water or similar programs

Consistent marketing/messaging

intentional, continued organizing that doesn't ask too much of producers/leaders

Who needs to be involved?

New and beginning farmers

Soil Health Coalition

Grazing schools

Funding and partnership opportunities to expand on grazing schools

NCAT as partner

Western VA

Dedicated cohorts

THANK YOU!

erika@jgresearch.org
lee@ncat.org

Send any additional thoughts/feedback to Erika or Lee

Virginia: final knowledge systems mapping summary

Definition of regenerative grazing

- Similar definitions re: ecological processes, land stewardship, soil health, resilience, etc. though After had more nuance related to social, economic, and cultural benefits (economic, social wellbeing of the farm and community)
- After: also more emphasis on regenerative being a journey not a destination/continual process, that it is not prescriptive or punitive but rather generates producer autonomy
 - o There's no manual/standard/codebook for regenerative which can both be difficult for producers to wrap their head around but is very freeing
- Regenerative as a term having “explicit sensibility around systems”
- Discussion about the fact that words and definitions matter, but they also get co-opted and/or have associations with them
 - o Regenerative/ sustainable is often associated with “hippie” culture
 - o Discussion about regenerative ag being under the banner of the ever-growing world of sustainable agriculture
 - o Need for a simple, brief definition to convey concepts
 - Working with nature vs. against it—life versus death

Barriers to adoption

- Before: top 3 barriers: high initial investment cost, it is perceived as labor-intensive, lack of hands-on training and/or mentorship opportunities
- After: additional barriers: lack of downstream infrastructure (processing) and consumer markets to support adoption, goes against big money aimed at keeping things the same, fear of the unknown; it's an “all-in” investment, whereas a lot of producers rely on off-farm jobs for healthcare, income
- Project worked to address barriers through case studies that explain how others have successfully overcome barriers, developed a dedicated track at conferences for regenerative grazing
- Consistent with first mapping: major barrier is the fact that adoption entails a paradigm shift/a substantial change in producer mindset and focus—orientation toward environment, ecology, systems thinking and decision-making
- Discussion about how extension itself is often funded by big ag---potential opportunity is to encourage different funding sources that would be more supportive of regenerative
 - o VA's train the trainer events helping here

Facilitators of adoption

- Top 3: mentorship, on-farm learning, hands-on learning
- Additional: technical assistance, cost share and access to upfront capital
- In VA, Guille Yearwood invested a lot of time and energy toward mentorship, has reached a lot of folks
- Noted a need for agency folks to “Walk alongside” the path with producers—they often have a lot of learning to do themselves to be able to promote regenerative

- Project supported facilitators through regenerative conference sessions, partnerships, and train the trainer events
- Institutions/agencies falling toward bottom of ranking—reflection on importance of partnerships, programming to reach producers, get information out in a way that meets them where they are at; uplifting partners (like AFT) that have the skillset to translate between research and practice
- Mention of some young, local extension agents who are interested in promoting regenerative/partnering with producers in meaningful way---while not reflective of extension as a whole, there is promise there and it's effective at supporting regenerative

Progress on priorities

- Not much: more support for small, historically under-resourced farmers
- Some: more regenerative ambassadors, more peer-peer learning opps, stronger regenerative market, more collaboration, coordination among organizations
- A lot: curation of existing resources, written resources of what's available, what works, VA Tech substantively embracing regenerative grazing

Map

- New actors:
 - o Businesses: WellFarm
 - o Individuals: Gil Yearwood, Meredith Hoggatt
 - Producers: Sarah and Ralph Morton, Sally Walker, Buck and AJ Holsinger, Becky Szarzynski, Adam Taylor, Leo Tammi, Michael Sands
 - o Producer groups: Beef Cattlemen's Association
 - o Agencies: Farm Bureau
 - o Universities: University of Lynchburg Claytor Nature Center
- Several producers and their farms added to the map as farmer mentors
- More university actors categorized as "leading the way"
- More partnerships across non-profits, university, agencies, producers
- Gaps noted in first map have seen attention/progress:
 - o Experienced trainers
 - o Peer-peer mentoring network
 - o Outreach to underserved and historically marginalized producers
- Opportunity: focusing on young and beginning farmers—there aren't the same types of barriers that have to be overcome and new farmers will naturally be going to workshops, taking advantage of learning opportunities
 - o Leveraging universities
- Likely, there are also some farmers in VA who are already doing these types of practices but not calling it regenerative/aren't looped in yet

What's next

- Discussion about accessibility of workshops/training events
- Keeping the farmer-farmer network building momentum going
- Tap into on-farm experiments and workshops (e.g. safe to fail trials)

- Consistent marketing/messaging
- Intentional, continued organizing that also avoids asking too much of producers
- Interest in leveraging existing grazing schools in VA, learning from AR's experience
 - o Tapping into funding to expand model
- Who needs to be involved:
 - o New and beginning farmers
 - o Entities/producers in Western VA
 - o NCAT as partner
 - o Soil Health Coalition (VA tech)

Overall observations

- The number of regenerative grazing mentors in VA has significantly expanded, providing producers with quality peer-peer learning opportunities, ongoing support
- Partnerships across non-profits, agencies, producers, universities have expanded/strengthened, with universities playing a more significant role in promoting regenerative
 - o VA Tech now leading player in regenerative grazing resources
- VABF conference has leveraged partnerships to develop regenerative-specific conference tracks
 - o Significant in expanding knowledge/interest/network around regenerative
- Agencies continue to fall short in terms of supporting/promoting regenerative, but there are more local agents who are moving the needle/interested in regenerative
 - o Opportunity here to partner on training opportunities for both producers and agents
- Interest/opportunity in reaching young, new/beginning producers
- Interest in leveraging experiences/tools from other states:
 - o AR's grazing school model
 - o TX's Safe to Fail trials