

TACTICAL SCIENCES NETWORK

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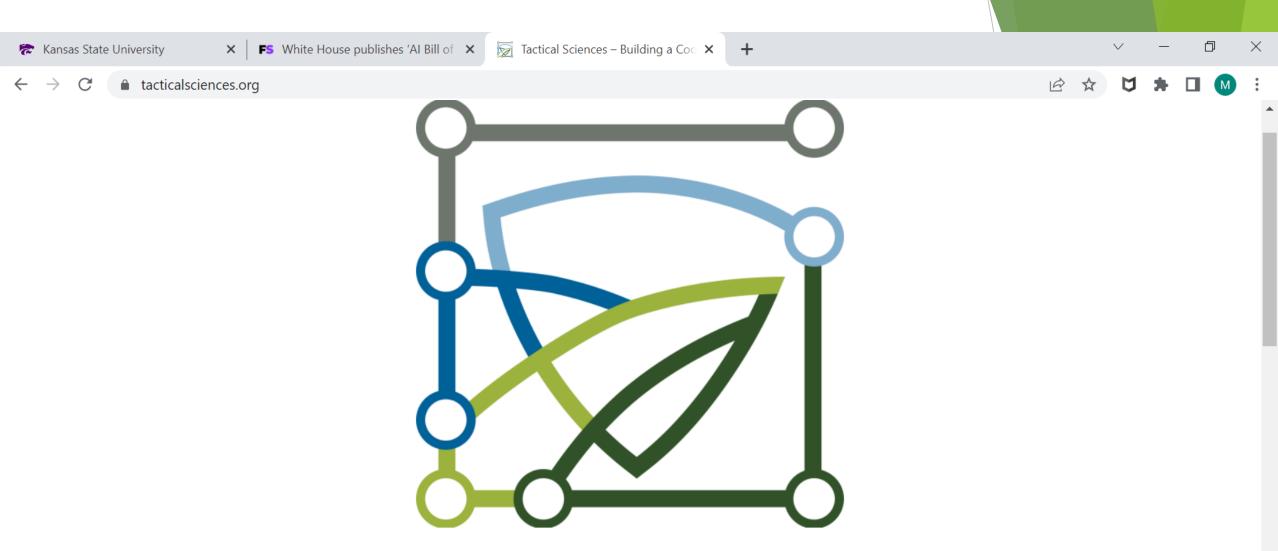
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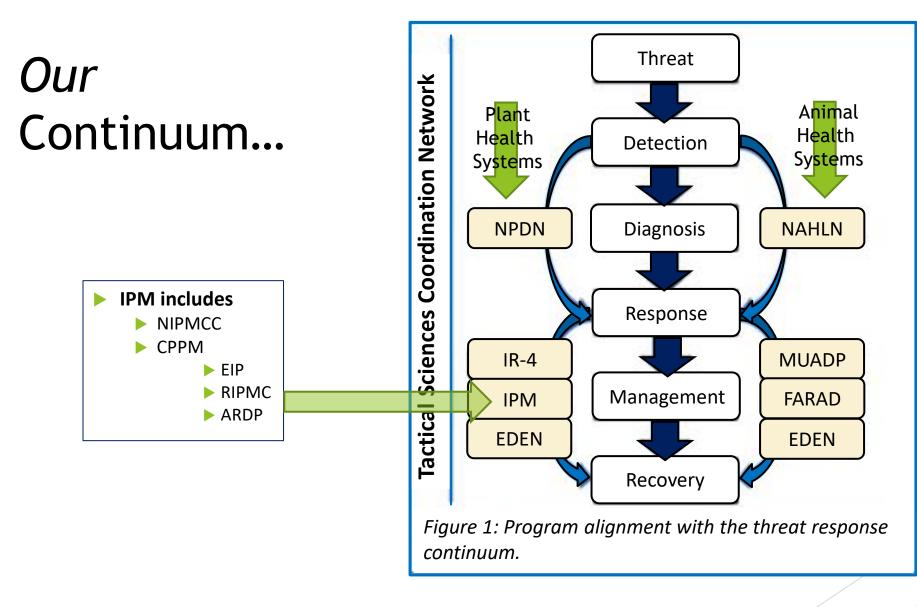
Kansas State University

NIPMCC - October 19, 2022



TACTICAL SCIENCES NETWORK

Enhancing food security and biosecurity in U.S. agricultural and food systems through increasing coordination and cooperation among USDA NIFA's agricultural biosecurity programs.





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What are the TSN program goals?

Goals:

- Convene tactical sciences programs to build on common issues;
- Develop a coordinated strategy of outreach, communications, and program activities
 - Cross-network collaboration
 - Identify common issues
 - Seek external funding,
- Develop public-private partnerships to sustainably protect the US food supply.

ACTICA

Vital components (as identified by NIFA Call to Conversations)

- Effectiveness
- Efficiency

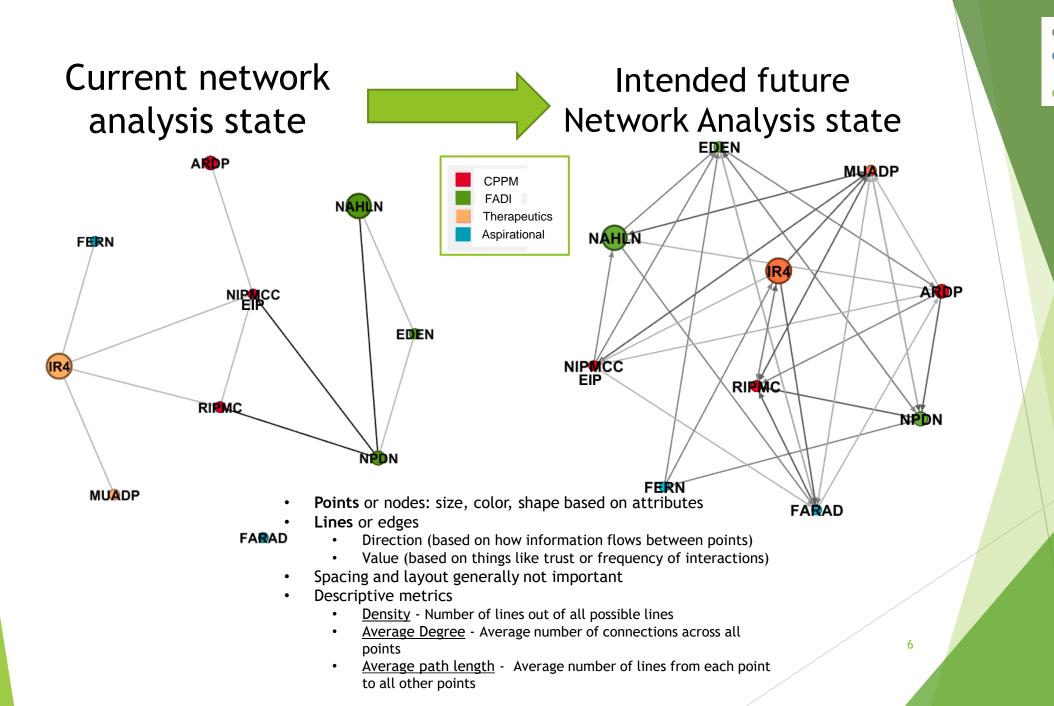
Accountability

Relationship/Trust

Common Themes/Needs Identified

- Communications (audience recognition and messaging)
- Next Generation Scientists/Workforce Development/Succession planning
- **Lab standards** (certification, accreditation, QC, SOP development, etc.)
- Equipment obsolescence
- Surveillance (observation networks, citizen science education, etc. maybe also information sharing/communication?)
- Information Technology
- Sustainability
- Stakeholder relations/input to NIFA

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TACTICAL SCIENCES

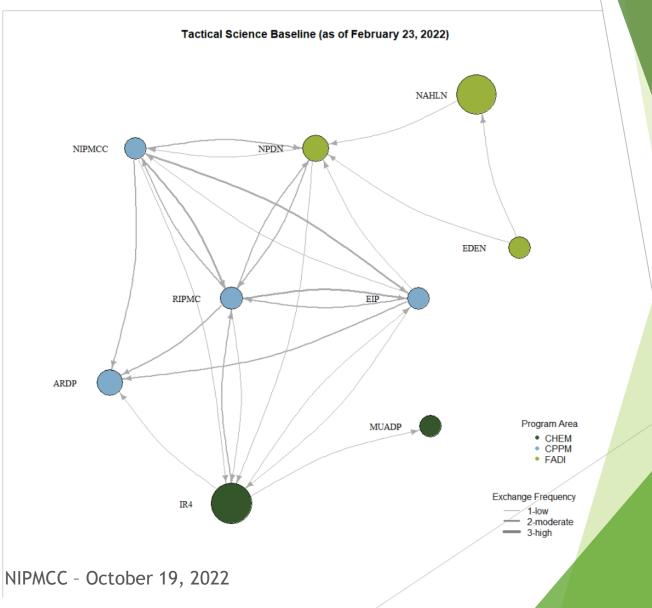
NETWORK

Network analysis [baseline]

- Program 'circle size' based loosely on relative budget
- Color = program area
- Line thickness = frequency of interactions
- Arrow direction = flow of information and resources

Programs = 9 Connections = 21 Network Density = .29





Tactical Sciences Coordination Network (TSN)

- SWOT exercise
 - Internal
 - o Strengths
 - o Weaknesses
 - External
 - o **Opportunities**
 - o Threats

- TIME context*
 - Tolerate
 - Invest
 - Migrate
 - Eliminate
 - (*Gartner)

PPT Framework

- People
- Process
- Information
- Technology

Strengths

- National representation, across regions and sectors
- Communication with Federal partners and agencies
 - Recommended In-person meeting (in Washington, DC)
- Industry and commodity association board members
- Ability to take materials/white papers back to regional organizations

> Weaknesses

- Infrequency of in-person meetings and networking opportunities
- Not fully engaging lobbyist-type resources
 - Need to structure whitepapers containing an 'ask' from an economic valuation analysis perspective
- Sparse infrastructure and support staff for continuation of efforts; hurts persistency of goals/priorities
- No clear evaluation of communications and metrics from national level to regional/state components
- Lack of bi-directionality of idea flow
- Year-to-year changes in leadership and representation

> Opportunities

- Chance for increased funding through highlighting the value of the work product
- Need to develop a strong marketing plan to assist in enhancing funding opportunities
- Pursuing administrative resources from partner universities
- Finding a pathway for facilities & administration/Indirect costs/overhead to be allowed for host institutions
 - Farm bill language has the prohibition on overhead

> Opportunities

- Revisit length of leadership and membership tenure to promote continuity and efficacy
- Become more action item oriented; to-do lists at end of meetings.
- State IPM awardees provided with travel budget to attend NIPMCC meetings
- Virtual meetings to optimize time

> Threats

- Lack of funding
 - Time is a constraint as leadership and participants have many responsibilities outside of their role in NIPMCC
 - Lack of resources leads to difficulty in implementing committee recommendations which lowers participation
- Poor year-over-year continuity year-long leadership cycles make for challenging implementation

 $_{\odot}$ New chair each year and goals are all multi-year

 Only regional directors of IPM are included so there is a limited representation of topic areas/expertise.

> Threats

- Turnover and administration change at NIFA may lead loss of institutional memory and lower prioritization of IPM disciplines
- Decrease in human capital
 - Administrations are not prioritizing refilling IPM related positions.
 - Decrease in trained applied scientists (extension specialists and educators) in IPM that directly interact at the grower level.
- Unclear direction and purpose for NIPMCC and how this translates to regions and states

Underway - Thematic Working Groups

- Communications
- Surveillance
- Workforce Development
- Stakeholder Relations
- ►IT Systems
- Lab Standards and Equipment Obsolescence
- Analyze the network(s) for possible gaps and opportunities
- Addressed Communications, Stakeholder relationships and Workforce Development in June

Working Groups - Communication

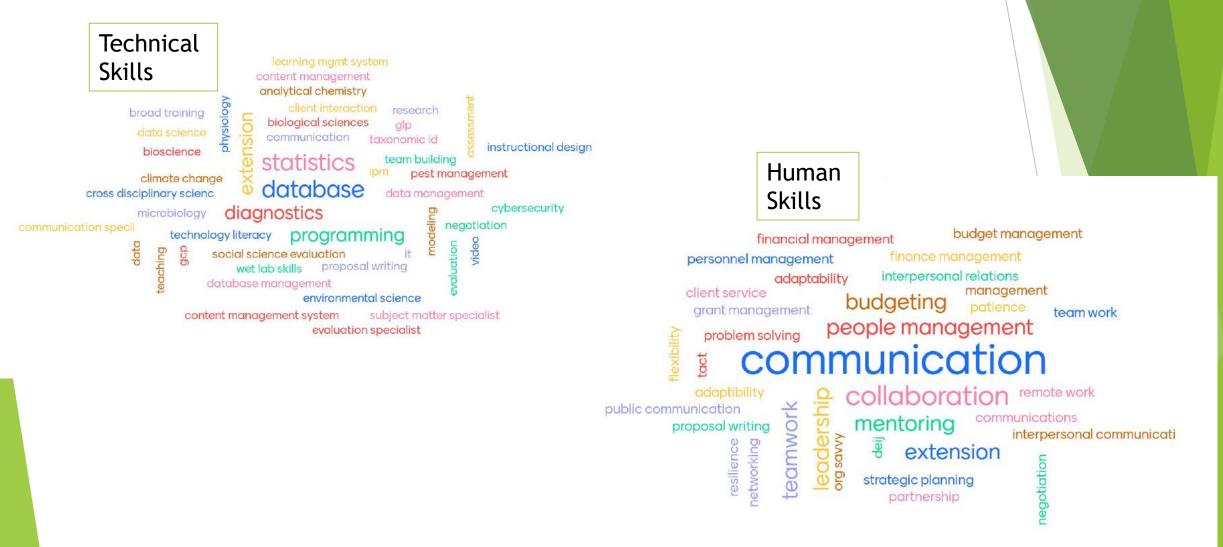
- Identity of TSN is vague, unclear, missing, unintelligible
- > What does comparing program logic models tell us?
- Mycotoxins are a broadly shared concern can that be a shared communications platform?
- **Example**: Currently issue of cotton seed bug.
 - Responsible program is unclear
 - APHIS focuses on pre-introduction Less so once introduced
 - Biosecurity challenges go beyond NIFA to APHIS, FDA, etc. All agencies need to be coordinated. Programmatic institutional/agency loyalty needs to be overcome.

Working Groups - Stakeholder Relations

Flat funding + Inflation = Diminishing functionality!

- Can/will industry stakeholders advocate for us? What tools do they need?
- > Will industry share what they value from our programs?
- Can we/how can we aid in compelling "Explanatory notes" preparation?
- What stakeholders/partners can we engage with so they will engage for us (themselves)?

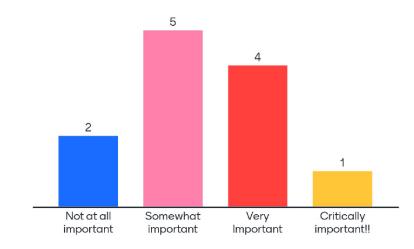
Working Groups - Workforce Development



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Working Groups - Workforce Development

How important is succession planning to the sustainability of your program?



Other points?

- Leadership is a more critical need than technical skills.
- Don't have resources (\$ and time) to develop a workforce succession plan.

So what! Why does TSN matter?

Funds are short

Opportunities lie in collaboration

Industry could be a partner

We can be our own best advocate

Being proactive in finding the next generation
Not all relationships offer equal opportunity in every goal area



Charge From NIFA to find...

Efficiency
Effectiveness
Relationship
Accountability



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*(per Calls to Conversation report)

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