Tactical Sciences Coordination Network - A1181 (2019)

TACTICAL SCIENCES NETWORK

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National IPM Coordinating Committee - October 21, 2020

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What are the Tactical Sciences?

- A complementary set of programs that offers tools to protect the integrity, reliability, sustainability, and profitability of the U.S. food and agriculture system against threats from pests, diseases, contaminants, and disasters.
- A well-designed agricultural biosecurity system is supported by resource management, relevant research, balanced regulations, and effective relationships among scientific experts, policy-makers, and consumers. It requires a concerted effort, sustained investment, and a coordinated strategy to face the vulnerabilities of our nation's food and agricultural system.
 - TACTICAL SCIENCE: CONTINUING THE COMMITMENT, USDA-National Institute of Food and Agriculture, September 2017



NIFA Tactical Science Programs









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The Isle of Misfit Programs?

- Congress supports program creation (well intentioned).
- Not so good at continued program support.
 Powered by denial.





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TACTICAL

NETWORK

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.



Vital components (as identified by NIFA Call to Conversations)

- Effectiveness
- ► Efficiency

Accountability
Polationship/Tr

Relationship/Trust

Meetings and progress (so far)

Introductory virtual meetings
 July 28 and August 12

Communication plan in process

- Branding complete
- Website coming soon

Quarterly communication (at least) planned

More frequent collaborative invitations

Podcasts coming!

Slower going while living in the virtual space!

More progress...

Program profiles
Program overviews
Program lead intros
Meeting 1 debrief
Interviews
Analysis



Collaboration is closely linked to communication, relationship and trust.

Text map *<u>https://nifa.usda.gov/sites/default/files/resource/Tactical-Sciences-report-on-conversation.pdf</u>

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TACTICAL

SCIENCES

Lessons learned from Session I

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



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Lessons learned from Session I

The stated goals seemed to resonate with the attendees

- Sense of hesitation to fully embrace the goals
 - Possible overlap with prior work calls to conversation
 - Too ambitious, or not enough?
- Advice to the TSN project team
 - Build relationships
 - Build awareness across programs
 - Identifying opportunities
 - Provide leadership and structure

Surprises

- How little the participants knew about each other's program
- How other programs do things like their own program
- General overlap and opportunities among programs
- How their program could help others



Lessons learned from Session I

Challenges

- Overcoming organizational silos
- Building trust; overcoming perceptions of 'free riders'
- Addressing detractors or anti-champions
- Finding time
- Finding alignment
- Anticipated TSN Benefits Perceived benefits that could motivate participation
 - Better service to customers
 - Better leveraging of resources
 - Collaborative action and problem-solving
 - Discovery of common challenges
 - Knowledge transfer and sharing among programs



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Challenges and catalysts for TSN (that is effective, efficient, accountable, trust-based)

Challenges

- History of siloed operations
- Previous attempts at coordination
- Low trust levels
 - Free-rider fears
 - Concern that others will 'not play nice' - not reciprocate positive actions
- Turnover among TS program staff (i.e., champions for this project)
- Anti-champions

Time

Catalysts

- Perceived opportunities and benefits
- Common elements stakeholders, partners, resources, etc.
- NIFA 'encouragement' to come together
- Network-driven change (not topdown)
- Passion (or at least strong interest)



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Current network analysis state



- **Points** or nodes: size, color, shape based on attributes
- Lines or edges
 - Direction (based on how information flows between points)
 - Value (based on things like trust or frequency of interactions)
- Spacing and layout generally not important
- Descriptive metrics
 - <u>Density</u> Number of lines out of all possible lines
 - <u>Average Degree</u> Average number of connections across all points
 - <u>Average path length</u> Average number of lines from each point to all other points

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Upcoming Activities?

Project Charter collaboration
 Further Program analysis
 Baseline Determination





Upcoming Activities - Project Charter collaboration

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Short-term Expected Outcomes?

- A commitment to cross-network communication.
- Focus areas are clearly understood by peer networks the consortium shares a collective vision and results framework.
- Stakeholders and decision-makers are aware of the networks and understand the value.
- The partnership* shares a plan of action.
- Operational structure for a national consortium is established with key roles, responsibilities understood.

* Internal and external

Mid-term Expected Outcomes?

A communications framework is in use.

- Teams are formed, communicating and functioning to develop projects and seeking external support.
- Industry partners are "buying-in" to the sustainability plan.
 Partner networks deepen their collaborative relationships.
 The partnership shares the implementation of a plan of action.
 More policy statements support the goals of the consortium.
 Policymakers adopt a common language in policy and regulations.



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