CBTS Background

• Detecting, assessing, and responding to biothreats to critical supply chains

• Research and education capabilities include
  • Detection of biological threats and disruptions to supply chains
  • Data integration and analytics
  • Novel operational methods for emerging tools to reduce risk,

• Workforce development
Objectives

• Project champion - Countering Weapons of Mass Destruction
• Three levels of analytical capacity
  • Broad assessments of risks
  • Economic assessments
  • Supply chain assessments
• Projects will run in parallel
• Goals
  • Insights about the current pandemic’s impacts
  • Identify critical issues for more resilient industries in the future
CBST Supply Chain Research

- Impacts on agricultural and food supply chains
  - Impacts of input disruptions
  - Production disruptions
  - Labor and transportation
- Economic modeling
  - Impacts on domestic demand and production
  - Impacts on trade opportunities
  - Global food insecurity?
- Focus on future supply chain issues
USAGE
Macroeconomic Impacts

TAMU Risk-Guided Data
and Model Platform
Risk Assessment Framework

FAPRI Commodity
Market Assessments

Anneal Pre-Harvest
Supply Chain Assessments

FPDI Food Supply
Chain Assessments

NBER Global Supply
Chain Risks
<table>
<thead>
<tr>
<th>Institution</th>
<th>Role</th>
<th>Description</th>
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<tbody>
<tr>
<td>Cross-Border Threat Screening and Supply Chain Defense (CBTS) Center of Excellence – AgriLife Research</td>
<td>Lead</td>
<td>- Lead overall effort&lt;br&gt;- Analyze and compile overall results and impacts</td>
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<tr>
<td>Texas A&amp;M University (TAMU)</td>
<td>Subrecipient</td>
<td>- Provide overall risk assessment framework</td>
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<tr>
<td>USAGE, University of Victoria</td>
<td>CAOE</td>
<td>- Study macroeconomic impacts of COVID19 on 13 U.S. Agricultural sectors</td>
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<tr>
<td>Food and Agricultural Policy Research Institute (FAPRI) - University of Missouri (MU)</td>
<td>Subrecipient</td>
<td>- Commodity market simulations/modeling to provide aggregate economic impacts on U.S. economy and major food and agricultural sectors&lt;br&gt;- Define and document 20 key exemplar food product supply chains to support U.S. food security</td>
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<tr>
<td>National Bureau of Economic Research (NBER)</td>
<td>Subrecipient</td>
<td>- Examine international supply dependencies and critical infrastructures&lt;br&gt;- RFPs for studies on specific supply chains</td>
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<tr>
<td>Food Protection and Defense Institute/AON</td>
<td>Subrecipient</td>
<td>- Focus on the supply chain components associated with farm to fork food production, product manufacturing, transportation, distribution, warehouse, and last mile distribution with private sector collaborators</td>
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<tr>
<td>Anneal Initiative, Inc</td>
<td>Subrecipient</td>
<td>- Assess needs and develop a strategy and initial planning for a dedicated analysis capability for addressing the global pre-harvest agriculture supply chain risks</td>
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Questions