State of Michigan Agriculture Logistics and Supply Chain Assessment and Strategy Recommendations

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Research Project Description

This project is designed to complete an overall end-to-end supply chain assessment of key commodity segments of agriculture in Michigan. The objective is to determine the aggregate flows, identify major infrastructure constraints, and provide recommendations and rationale for critical investments to improve Michigan’s economic competitiveness and job creation opportunities.

When the project is complete, the logistics and supply chain strategy recommendations for commodity crops will be shared and leveraged for other Michigan crops.

Value Created

- Reduced cost or cost avoidance for all stakeholders
- Improve service by reducing cycle times and delays for transport and processing
- Reduced supply chain risks for all stakeholders
- Creation of new Michigan jobs
- Prioritize infrastructure and policy recommendations impacting the agriculture industry

Project Plan

<table>
<thead>
<tr>
<th>Phase</th>
<th>Project Charter, Work Plan, Resources</th>
<th>Relevant Workshop Date:</th>
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</thead>
<tbody>
<tr>
<td>Phase 1</td>
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<tr>
<td>Phase 2</td>
<td>Data Collection (Ongoing)</td>
<td>Workshop #1</td>
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<td>February 21, 2014</td>
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<tr>
<td>Phase 3</td>
<td>Analysis &amp; Process Modeling</td>
<td>Workshop #2</td>
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<td>April 17, 2014</td>
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<td>Phase 4</td>
<td>Develop SCM Recommendations</td>
<td>Anticipated: September</td>
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<td>Phase 5</td>
<td>Validate Recommendation</td>
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<td>Phase 6</td>
<td>Implementation Planning</td>
<td>Project Completion</td>
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Project Stakeholders

- Michigan Soybean Promotion Committee
- Corn Marketing Program of Michigan
- Michigan Wheat Program
- Michigan Bean Commission
- Michigan Farm Bureau
- MSU Department of Supply Chain Management
- MSU Product Center
- MDARD
- MEDC
- MDOT

Potential Supply Chain Improvement Scenarios

Bottleneck Causes

Infrastructure
- Chronic
- Temporary
- Direct
- Indirect

Regulatory
- Corporate
- Information

Supply Chain Distortions
- Labour

Perceptions

Project Scope: End to End Supply Chain

End to end supply chain begins with the purchase and application of fertilizers, continues with the harvest and the movement of products from the field to processing locations, continues with food and feed processing, and ends with the sale of processed products to animal livestock or the end consumer.