Welcome

Freight Advisory Council
March 4, 2016
10:00 am – 2:00 pm
Meeting Purpose

- Provide updates on status of both plans
- Gather your input on the current strategies for improvements and location-specific projects relative to each plan
- Answer questions and receive comments
State Freight Plan and State Rail Plan Updates
2016 State Rail, Freight Plan Task Overview

OUTREACH AND PUBLIC INPUT

<table>
<thead>
<tr>
<th>2015</th>
<th>2016</th>
</tr>
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<tbody>
<tr>
<td>JUNE</td>
<td>JAN</td>
</tr>
<tr>
<td>JULY</td>
<td>FEB</td>
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<tr>
<td>AUG</td>
<td>MAR</td>
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<td>SEPT</td>
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<td>OCT</td>
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<tr>
<td>NOV</td>
<td>JUNE</td>
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<tr>
<td>DEC</td>
<td>JULY</td>
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- **Issues-Based Workshop**
  - September 24, 2015

- **High Leverage Stakeholder Committee** - Meeting 1
  - November 2015

- **High Leverage Stakeholder Committee** - Meeting 2
  - Winter 2016

- **High Leverage Stakeholder Committee** - Meeting 3
  - Spring 2016

- **Public Meeting**
  - Spring/Summer 2016

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We are here!

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Rail Plan
Freight Plan
2016 State Freight Plan Update
S9. Optimize the freight transportation network to minimize cost and travel time and improve supply chain efficiency.

S4. Utilize designs that are compatible with oversize/overweight freight movements.

S15. Provide measured, clear, non-technical performance results for the freight system.

S17. Act as a point of contact and educator on freight transportation options.
S13. Provide real-time information on system conditions to support the movement of freight

S17. Act as a point of contact and educator on freight transportation options

S15. Provide measured, clear, non-technical performance results for the freight system

S2. Explore/create other funding sources to increase investment in the freight transportation system
Advance a 21st century farm-to-market system that moves products seamlessly across road, rail, and...
**S13. Provide real-time information on system conditions to support the movement of freight**

**S15. Provide measured, clear, non-technical performance results for the freight system**

**S7. Advance a 21st century farm-to-market system that moves products seamlessly across road, rail, and water to global marketplaces**

**S9. Optimize the freight transportation network to minimize cost and travel time and improve supply chain efficiency**
Input Exercises
State Freight Plan
Exercise #1: Modal Improvement List Review

- Improvement Identification Process Introduction
- Identify Air Improvements

<table>
<thead>
<tr>
<th>1. Existing Facilities</th>
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<tbody>
<tr>
<td>All-cargo apron (s.f.)</td>
</tr>
<tr>
<td>South</td>
</tr>
<tr>
<td>East</td>
</tr>
<tr>
<td>Total</td>
</tr>
<tr>
<td>Warehouses (s.f.)</td>
</tr>
<tr>
<td>Bldg 31</td>
</tr>
<tr>
<td>Bldg 32</td>
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<tr>
<td>Bldg 35</td>
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<tr>
<td>Total</td>
</tr>
<tr>
<td>Approx. 68% of total square footage is leased</td>
</tr>
<tr>
<td>Total land area (approx.): 50 acres</td>
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</tbody>
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<tr>
<th>2. Activity Forecasts</th>
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</thead>
<tbody>
<tr>
<td>All-cargo airline air cargo (millions of pounds)</td>
</tr>
<tr>
<td>2012: 147.8</td>
</tr>
<tr>
<td>4.0 MAP: 172.7</td>
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<tr>
<td>Compound annual growth rate (CAGR): 0.8%</td>
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<tr>
<th>3. Assumptions</th>
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<tbody>
<tr>
<td>Annual cargo aircraft operations</td>
</tr>
<tr>
<td>2012: 5,456</td>
</tr>
<tr>
<td>4.0 MAP: 5,427</td>
</tr>
<tr>
<td>CAGR: 0.0%</td>
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</tbody>
</table>

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<tr>
<th>4. 4.0 MAP Requirements</th>
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<tbody>
<tr>
<td>Target warehouse utilization: 1.5 tons/s.f.</td>
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<tr>
<td>0.5 tons/s.f. = Low automation facility</td>
</tr>
<tr>
<td>0.9 tons/s.f. = Automated facility</td>
</tr>
<tr>
<td>1.6 tons/s.f. = Highly automated facility</td>
</tr>
<tr>
<td>Number of warehouse levels: 1.0</td>
</tr>
<tr>
<td>Target land requirement ratio: 3.3</td>
</tr>
<tr>
<td>Overall land area (warehouse building and land-side facilities) derived using a ratio relative to cargo warehouse space</td>
</tr>
<tr>
<td>DSM Airport current and future air cargo handling facilities</td>
</tr>
</tbody>
</table>

DSM Airport current and future air cargo handling facilities
Exercise #1: Modal Improvement List Review

- Identify waterway improvements

Schedule of major rehabilitations on the Upper Mississippi River, Rock Island District

Map showing proposed 1200-foot locks in the Upper Midwest.
Exercise #2: VCAP Highway Improvement Discussion

- VCAP Process Introduction
- VCAP District Review
Exercise #2: VCAP Highway Improvement Discussion

- VCAP Process Introduction
- VCAP District Review
2016 State Rail Plan Update
Rail Plan Goals

How much impact would the following have on the desired outcome?

1. **Maintain the infrastructure**: Improvements such as track and bridge upgrades, new and enhanced industrial spurs or industrial parks, development of an intermodal facility
2. **Ensure economic competitiveness and development**: Development that would support business in Iowa
3. **Improve efficiency**: Improve the capacity, efficiency, and safety of railroad operations in Iowa
4. **Enhance the safety and security of the rail system**: This could lead to grade crossing safety improvements, public education program, enhanced coordination between railroads
5. **Provide access and connectivity**: Advances to improve existing station facilities used by Amtrak, improve connectivity with existing and potential future transit systems and airports in Iowa
6. **Sustain the environment**: Reduction of greenhouse gas (GHG) emissions and fuel savings
State Rail Plan Vision Feedback

“A safe and efficient state rail system that enables the economic wellbeing of Iowans by expanding access and enhancing mobility for people and goods in an environmentally sustainable manner.”

Vision Feedback:

- Include language referring to regional aspect
- Leave “environmental sustainable manner” in vision
Lunch
Input Exercise
State Rail Plan
Exercise #1: Railroad Capital Investments and Projects in Iowa

What are your needs for rail within the four main project categories?

1. Capacity and mitigation of operational chokepoints
2. Safety
3. Economic Development
4. Modal Connectivity
Exercise #1: Railroad Capital Investments and Projects in Iowa

- **Examples**

  1. Capacity and mitigation of operational chokepoints
     - New or Extended Sidings
     - Expanded Yards / Terminals
     - Track and Bridge Upgrades for 286K Railcars
     - Vertical Clearance Improvements
     - Wayside Signal System Improvements

  2. Safety
     - Positive Train Control Implementation
     - Wayside Defect Detector Installations
     - Grade Crossing Improvements
     - Public Education Programs

  3. Economic Development
     - Transloads/Intermodal Facility

  4. Modal Connectivity
     - Connectivity and Interchange
     - Network Access
Exercise #1: Railroad Capital Investments and Projects in Iowa

- What projects you would you prioritize?
  - Use red voting stickers to identify types of projects to be prioritized.

- What projects are short-term?
  - Use blue voting stickers to indicate short-term projects.

- What projects are long-term?
  - Use green voting stickers to indicate long-term projects.

- How can the Iowa DOT facilitate the priorities your organization may have?
Exercise #2: Rail Map Identification Exercise

- Use **yellow** voting stickers to identify changes to existing or additional (if applicable) passenger rail stations in Iowa.
- Use **pink** voting stickers to identify changes or additions/additional points (if applicable) to existing points of freight rail access in Iowa (i.e. industrial spur, transload).
- Use **green** voting tape to identify changes to existing passenger rail services in Iowa or recommended additions (if applicable) (including intercity and commuter rail).
- Use **blue** voting tape to identify changes to existing freight rail services in Iowa or recommended additions if applicable (including new routes or reactivated abandoned routes).
What’s Next?
Stakeholder Participation
Solicit public input about rail and freight issues.

Identify opportunities for freight and passenger rail.

Educate the public about:
- the purpose of the State Rail and State Freight Plans.
- vision and goals.

Online meeting
Stay Involved

http://engagefreightrailplans.iowadot.gov/

Email us info@EngageFreightRailPlans.com
Thank You