



# Welcome

## High Leverage Stakeholder Committee Meeting #2

February 25, 2016

10:00 am – 2:00 pm

2016 **IOWA RAIL PLAN**



# Agenda

- **10:00 – 10:15 am:** Welcome, safety briefing, meeting purpose
  - 10:15 – 10:20 am: Icebreaker activity
- **10:20 – 10:30 am:** State Freight Plan, State Rail Plan update
- **10:30 – 10:40 am:** State Freight Plan input exercise
  - 10:40 – 10:45 am: Icebreaker activity
- **10:45 am – 12:00 pm:** VCAP Introduction, State Freight Plan input exercise
- **12:00 – 12:30 pm:** Lunch
  - 12:30 – 12:35 pm: Icebreaker activity
- **12:35 – 2:00 pm:** FRA guidance introduction, State Rail Plan input exercises
- **2:00 pm:** Next steps and wrap-up





2016 **IOWA RAIL PLAN** 

# 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

# 2016 **IOWA RAIL PLAN**



# Icebreaker



# One 15-barge tow is approximately how many miles?

- .25
- .29
- .33
- .34

# How many miles of pipeline are in the 160,109 miles of total freight infrastructure?

- 17,006
- 3,925
- 41,410
- 3,825



# The EPA emission regulations from recent years have cut the exhaust output of heavy trucks and off-road equipment by how much over the past 19 years?

- 95%
- 86%
- 62%
- 55%



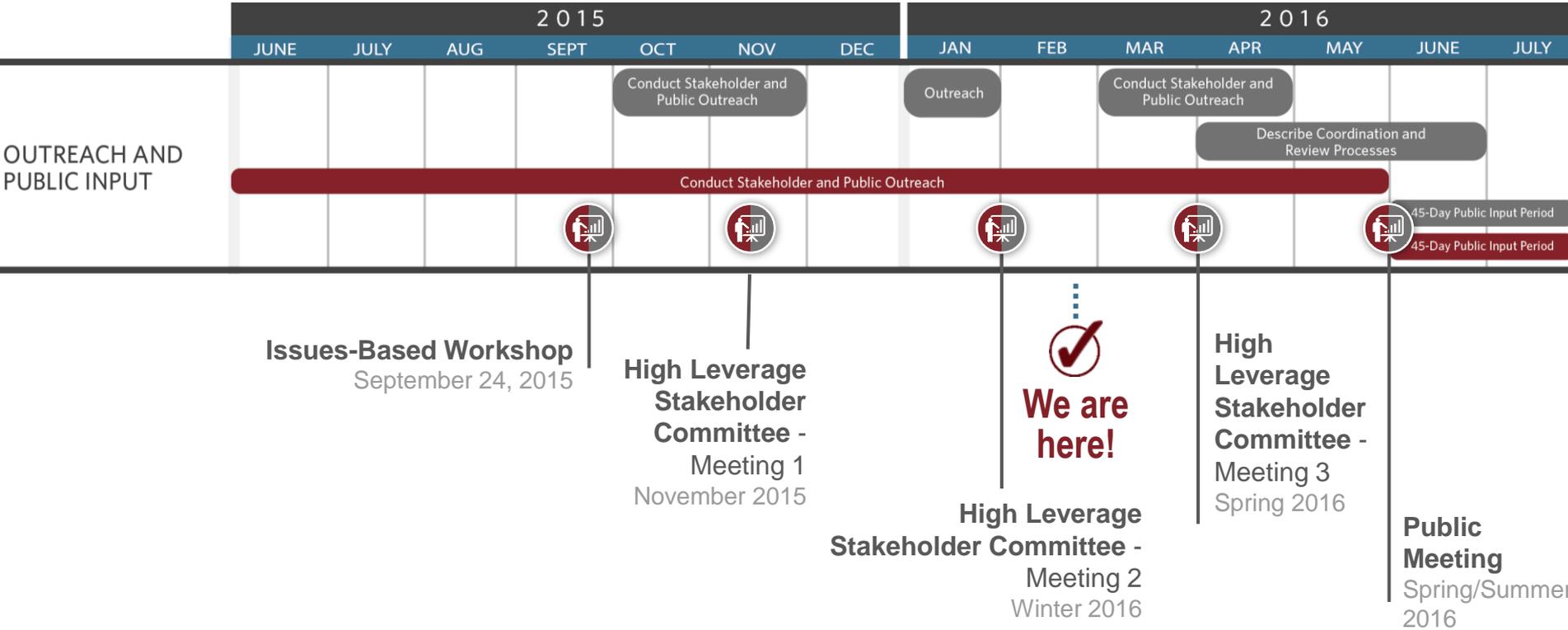
# State Freight Plan and State Rail Plan Updates



# 2016 State Rail, Freight Plan Task Overview

Rail Plan 

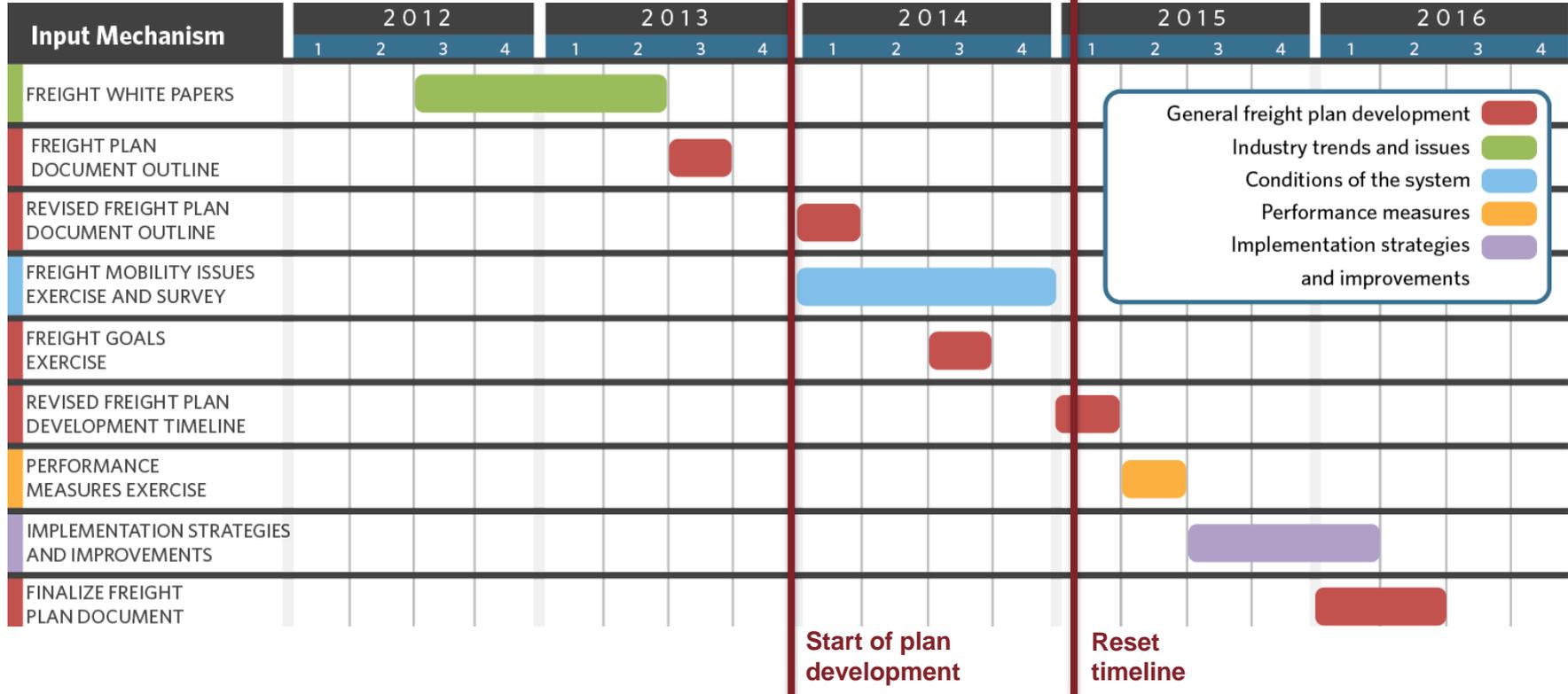
Freight Plan 



# 2016 State Freight Plan Update



# Stakeholder Input Gathering



# HLSC Results

HIGH



IMPACT

LOW

### BIGGEST BANG

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

S4

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

S15

### MODERATE PRIORITY

### MODERATE PRIORITY

S9. Optimize the freight transportation network to minimize cost and travel time and improve supply chain efficiency

S9

S7, S6, S5, S10, S12, S16, S13, S1, S2, S3

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

S17, S18

### LOWEST PRIORITY



EFFORT

HIGH

# Survey Results

HIGH

IMPACT

## BIGGEST BANG

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

## MODERATE PRIORITY

S2. Explore/create other funding sources to increase investment in the freight transportation system

## MODERATE PRIORITY

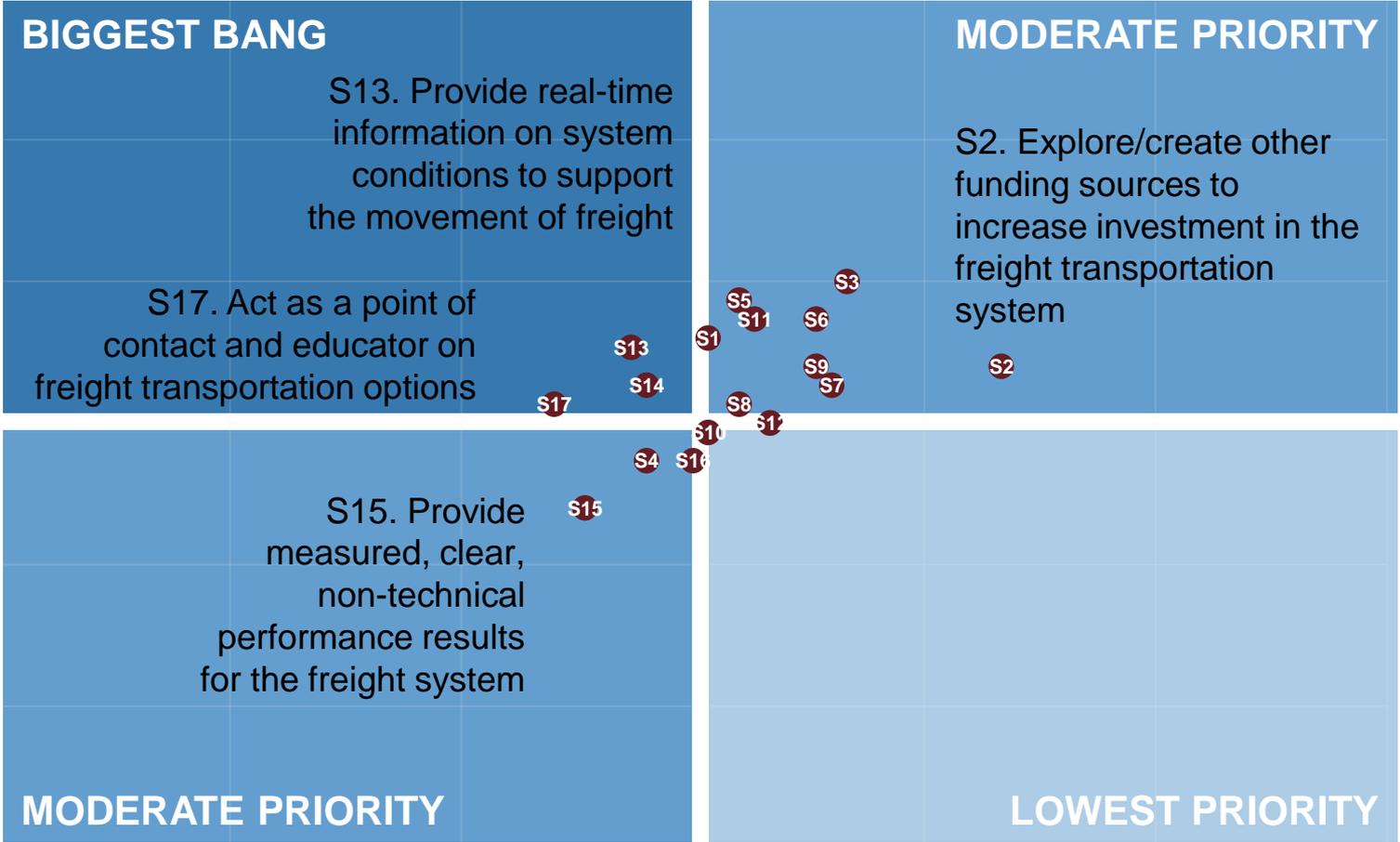
S15. Provide measured, clear, non-technical performance results for the freight system

## LOWEST PRIORITY

LOW

EFFORT

HIGH



# FAC Results

HIGH



IMPACT

LOW

### BIGGEST BANG

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

### MODERATE PRIORITY

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

### MODERATE PRIORITY

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

### LOWEST PRIORITY



EFFORT

HIGH



# Combined Results

HIGH



IMPACT

LOW

## BIGGEST BANG

S13. Provide real-time information on system conditions to support the movement of freight

## MODERATE PRIORITY

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

## MODERATE PRIORITY

S9. Optimize the freight transportation network to minimize cost and travel time and improve supply chain efficiency

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

## LOWEST PRIORITY

EFFORT

HIGH



# 2016 State Rail Plan Update

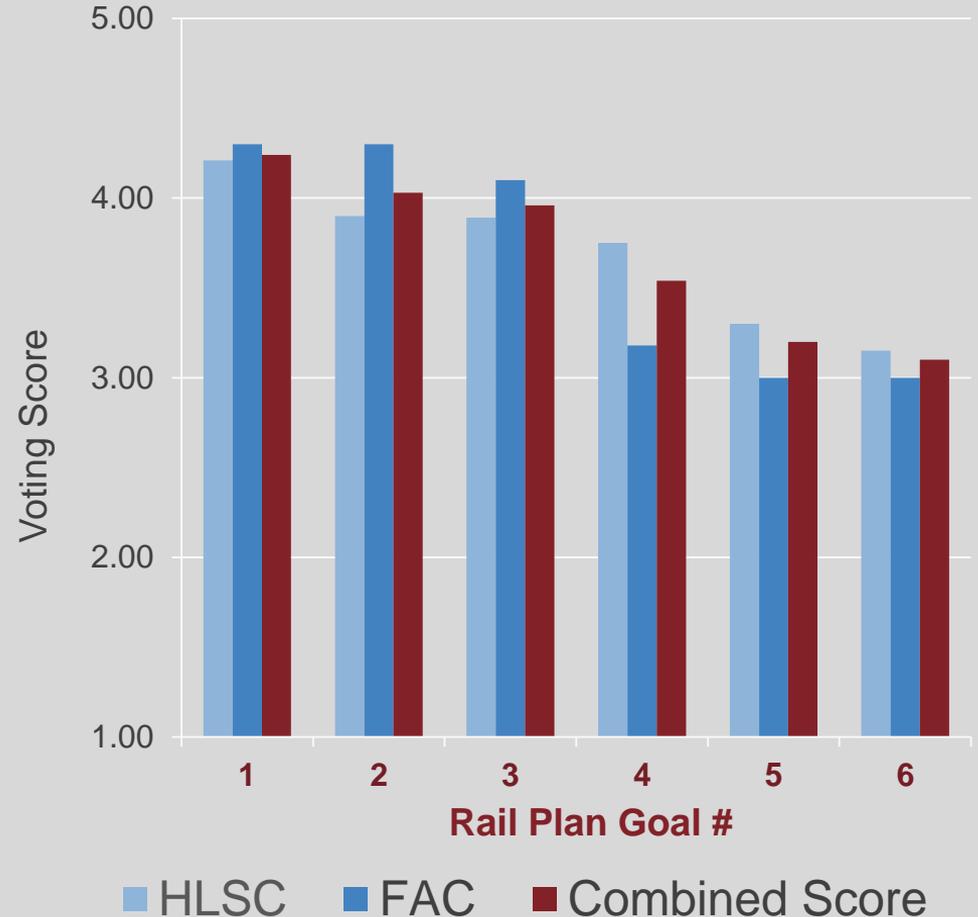


# Rail Plan Goals

Respondents were asked “To what level of impact will this goal optimize rail operations in the State of Iowa?”

## Prioritized results:

1. Maintain the infrastructure
2. Ensure economic competitiveness and development
3. Improve efficiency
4. Enhance the safety and security of the rail system
5. Provide access and connectivity
6. Sustain the environment



# State Rail Plan Vision Feedback

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

*After: “A safe and efficient state rail system that enables the economic wellbeing of Iowans by **expanding local, regional, domestic and international access** and enhancing mobility for people and goods in an environmentally sustainable manner.”*



# Input Exercises

## State Freight Plan



# Exercise #1: Modal Improvement List Review

- Improvement Identification Process Introduction
- Identify Air Improvements

1. Existing Facilities	2. Activity Forecasts	3. Assumptions	4. 4.0 MAP Requirements
<b>All-cargo apron (s.y.)</b> <ul style="list-style-type: none"> <li>• South 177,000</li> <li>• East <u>27,000</u></li> <li>• Total 204,000</li> </ul>	<b>All-cargo airline air cargo (millions of pounds)</b> <ul style="list-style-type: none"> <li>• 2012: 147.8</li> <li>• 4.0 MAP: 172.7</li> <li>• Compound annual growth rate (CAGR): 0.8%</li> </ul>	<b>Target warehouse utilization: 1.5 ton/s.f.</b> <ul style="list-style-type: none"> <li>0.5 ton/s.f. ■ Low automation facility</li> <li>0.9 ton/s.f. ■ Automated facility</li> <li>1.6 ton/s.f. ■ Highly automated facility</li> </ul>	<b>All-cargo aircraft stands (sized for ADPM)</b> <ul style="list-style-type: none"> <li>• ADG II 1</li> <li>• ADG IV 7</li> <li>• Total 8</li> </ul>
<b>Warehouses (s.f.)</b> <ul style="list-style-type: none"> <li>• Bldg 31 12,300</li> <li>• Bldg 32 28,000</li> <li>• Bldg 35 <u>27,350</u></li> <li>• Total 67,650</li> <li>• Approx. 68% of total square footage is leased</li> </ul>	<b>Annual cargo aircraft operations</b> <ul style="list-style-type: none"> <li>• 2012: 5,456</li> <li>• 4.0 MAP: 5,427</li> <li>• CAGR: 0.0%</li> </ul>	<b>Number of warehouse levels: 1.0</b>	<b>Warehouse and land requirements (s.f.)</b> <ul style="list-style-type: none"> <li>• Warehouse 53,700</li> <li>• Ramp 334,600</li> <li>• Landside 123,500</li> </ul>
<b>Total land area (approx.): 50 acres</b>		<b>Target land requirement ratio: 3.3</b> <p>Overall land area (warehouse building and landside facilities) derived using a ratio relative to cargo warehouse space</p>	<b>Total land area (approx.): 12 acres</b>
<b>Existing warehouse utilization (based on leased space only): 1.5 ton/s.f.</b>			<b>South cargo area is adequate throughout planning period</b>

Fig. 1 - DSM Airport current and future air cargo handling facilities

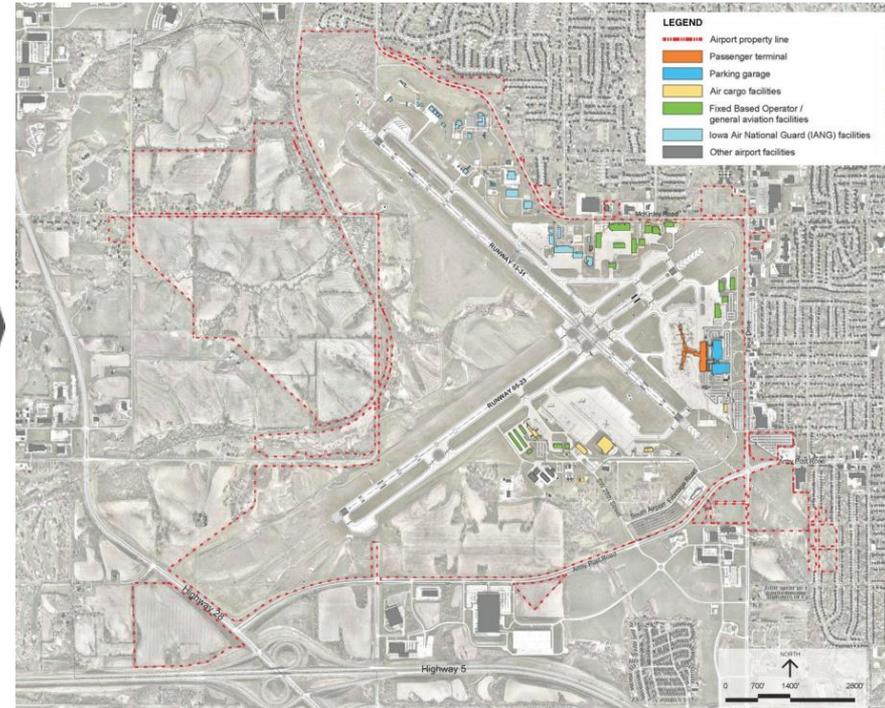


Fig. 2 - DSM Airport Property

# Exercise #1: Modal Improvement List Review

- Identify waterway improvements

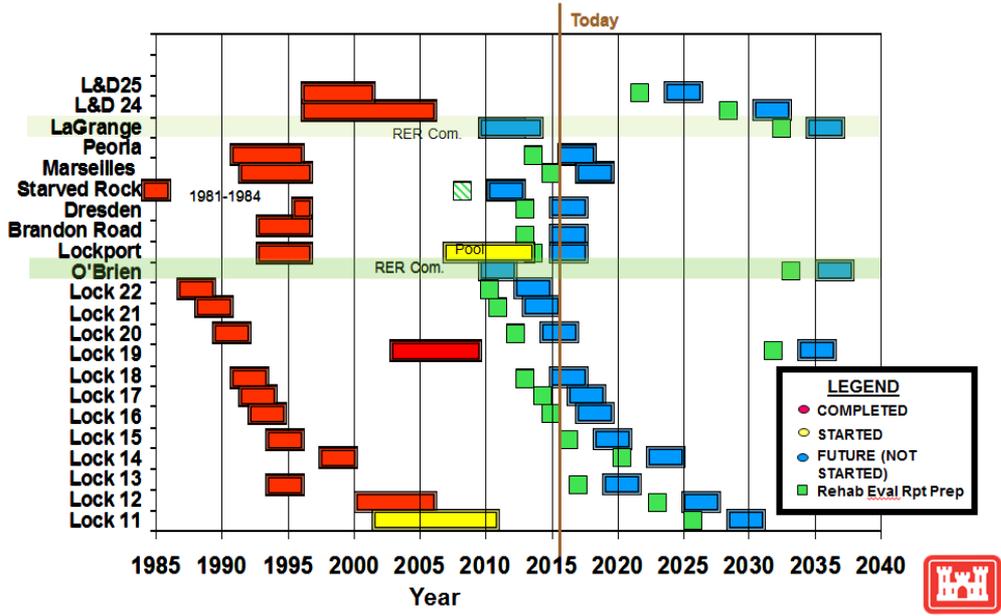


Fig. 3 - Schedule of major rehabilitations on the Upper Mississippi River, Rock Island District

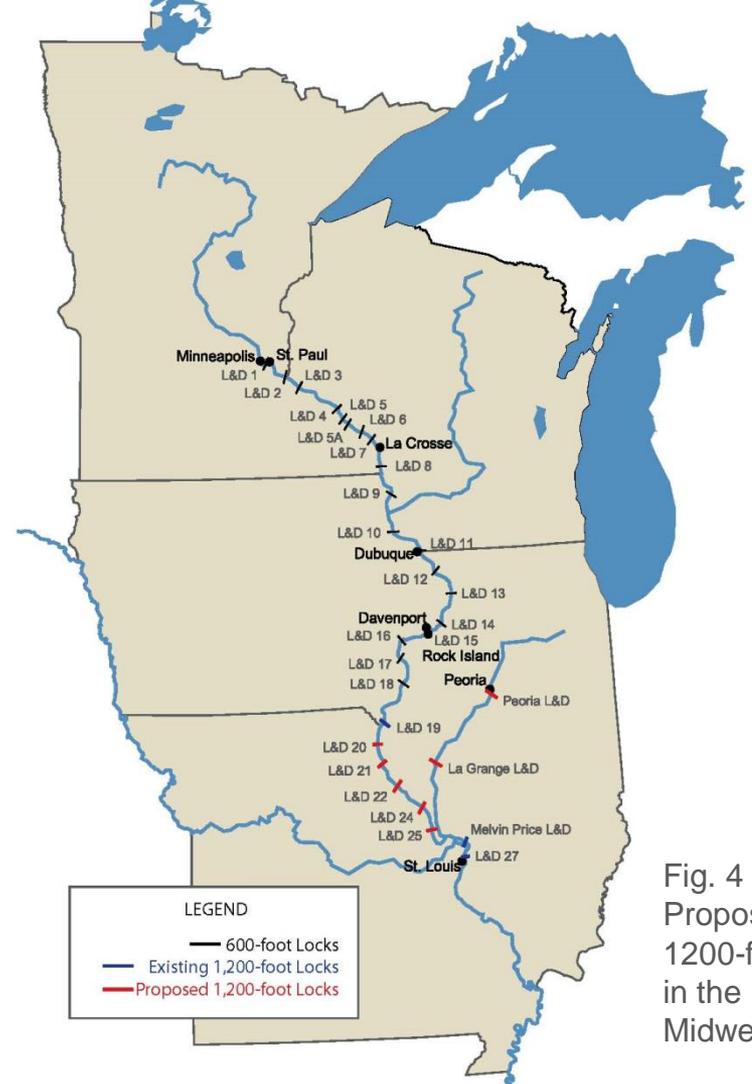


Fig. 4 - Proposed 1200-foot locks in the Upper Midwest

2016 **IOWA RAIL PLAN**



Icebreaker



# There are currently how many freight railroads in the United States?

- 561
- 585
- 575
- 571



# How many freight railroad miles are in Iowa?

- 3,851
- 3,884
- 3,423
- 3,767



# In 1920, passenger rail was at the height of popularity. 1920 saw how many rail passengers?

- 1.0 billion
- 1.1 billion
- 1.2 billion
- 1.3 billion



# Exercise #2: VCAP Highway Improvement Discussion

- VCAP Process Introduction
- VCAP District Review

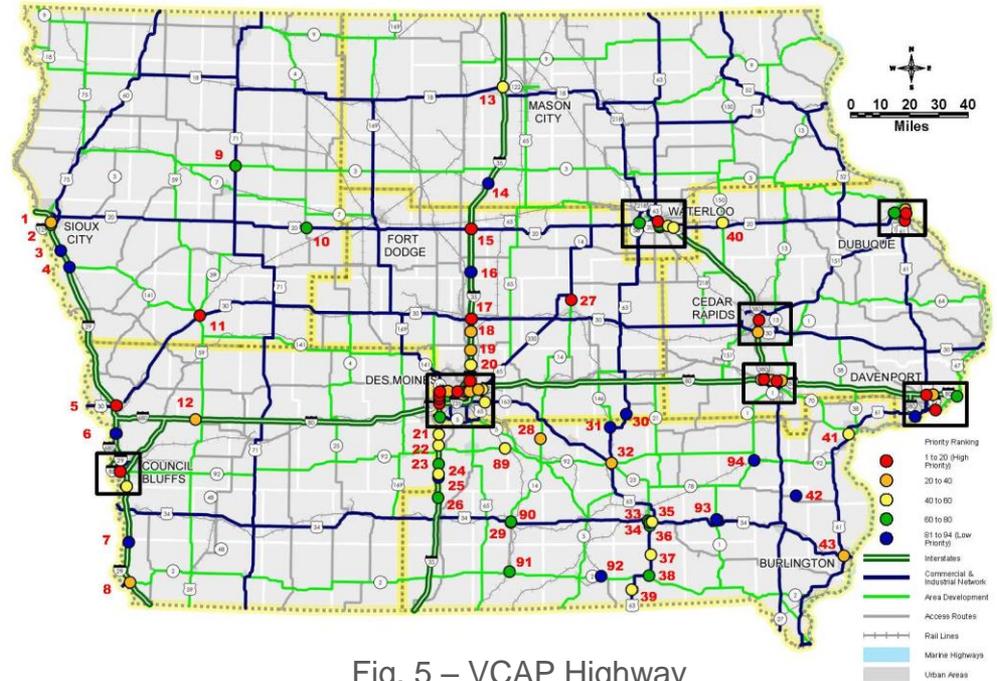


Fig. 5 – VCAP Highway Improvement Locations

# Exercise #2: VCAP Highway Improvement Discussion

- VCAP Process Introduction
- VCAP District Review

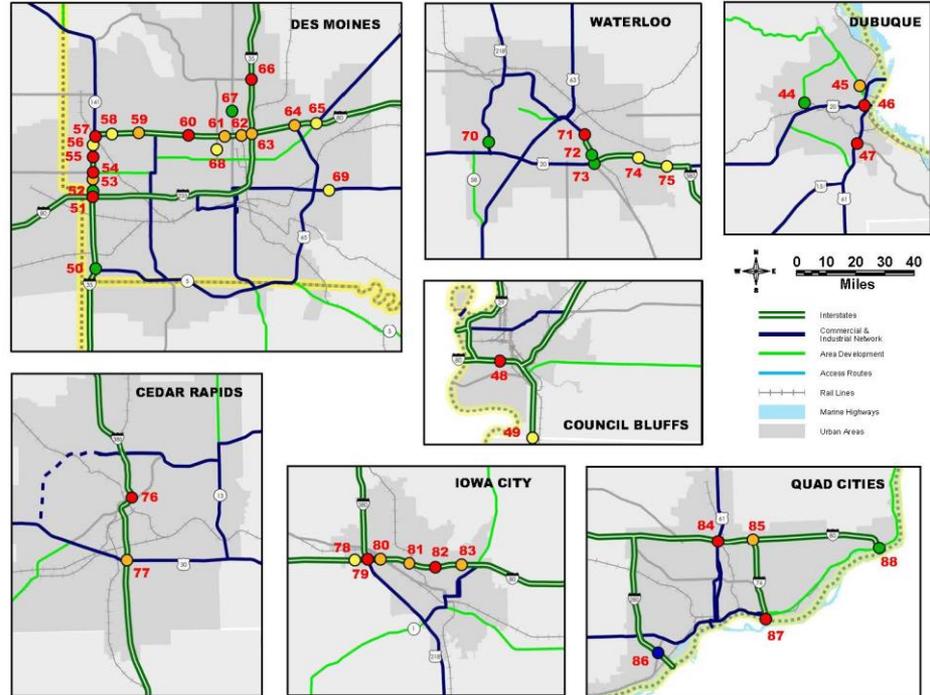


Fig. 6 – VCAP Metro Improvement Locations

# 2016 **IOWA RAIL PLAN**



# Lunch



# 2016 **IOWA RAIL PLAN**



# Icebreaker



# In 1829, the first locomotive for use on railways was imported from where?

- France
- Germany
- Ireland
- England



# How many additional trucks would be needed to handle the 312.9 million tons of freight that were moved through Iowa in 2012?

- 17.9 million
- 18.3 million
- 18.9 million
- 19.6 million

# The Sherman Antitrust Act set a precedent for dissolving railroad and other corporate monopolies by which president?

- Calvin Coolidge
- Theodore Roosevelt
- William Taft
- Herbert Hoover



# Iowa has 3,851 rail miles. What is their ranking for rail miles in the United States?

- 8
- 11
- 24
- 37



# 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 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?

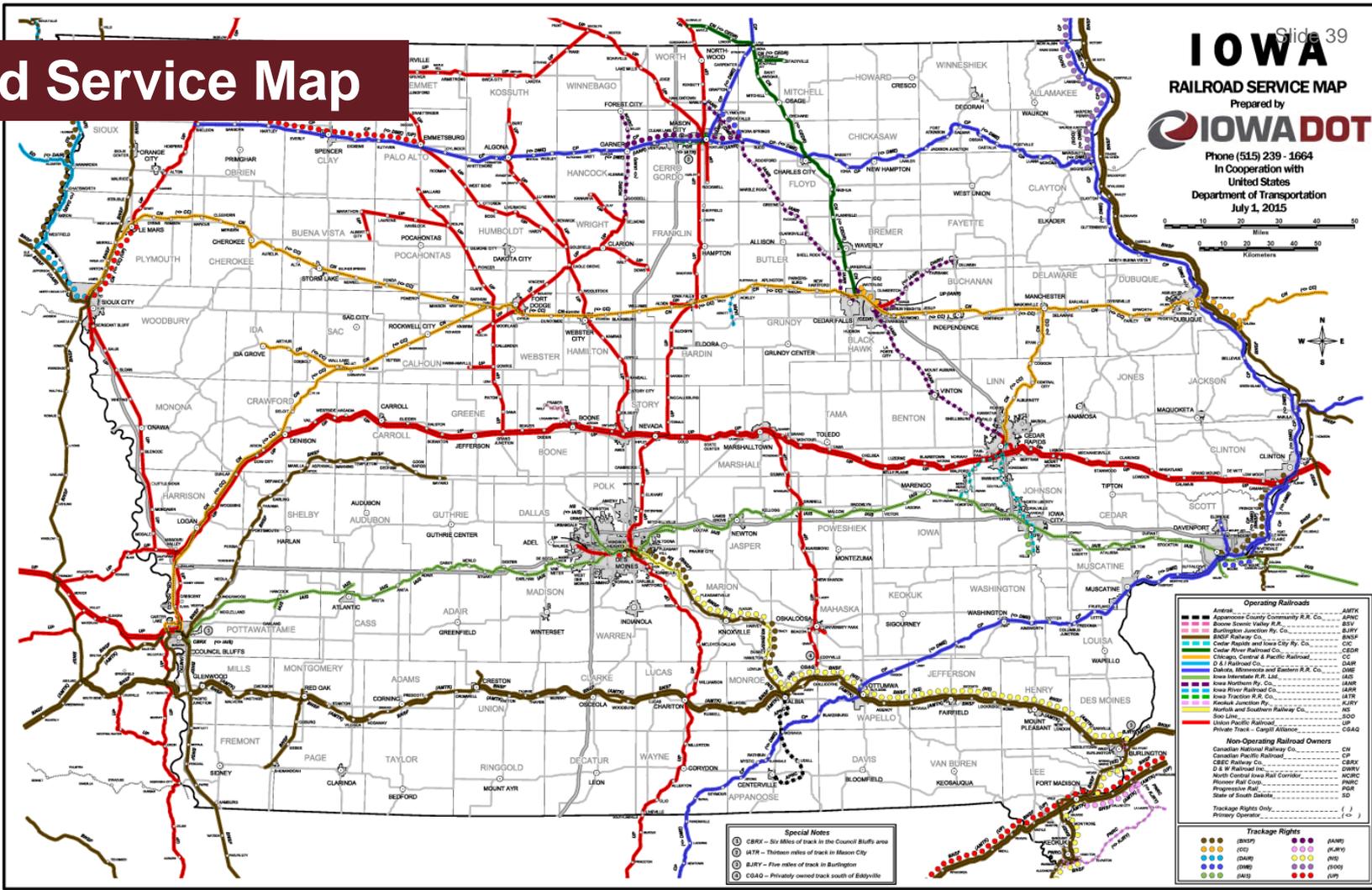


## Exercise #2: Rail Map Identification Exercise

- 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).

# Railroad Service Map

**IOWA**  
**RAILROAD SERVICE MAP**  
 Prepared by  
**IOWA DOT**  
 Phone (515) 239-1664  
 In Cooperation with  
 United States  
 Department of Transportation  
 July 1, 2015



**Operating Railroads**

- Amtrak
- Appanoose County Community R.R. Co.
- Bessemer Valley R.R.
- Burlington Junction R.R. Co.
- CB&Q
- Chicago, Central & Pacific Railroad
- Cedar River Railroad Co.
- D.A. Railroad Co.
- Dallas, Minnesota and Eastern R.R. Co.
- Des Moines and Iowa City R.R. Co.
- Iowa Interstate R.R. Co.
- Iowa Northern R.R. Co.
- Iowa Tractor R.R. Co.
- Rock Island Railroad Co.
- Union Pacific Railroad
- Private Trunk - Capital District

**Non-Operating Railroad Owners**

- Canadian National Railway Co.
- Central Pacific Railroad
- CB&Q
- D & W Railway Co.
- North Central Iowa Rail Corridor
- Western Rail Corp.
- Prospective Rail
- State of South Dakota

**Trackage Rights Only**

- Primary Operator

**Special Notes**

- CBRX - Six Miles of track in the Council Bluffs area
- ATN - Thirteen miles of track in Mason City
- ARFV - Five miles of track in Burlington
- CS&Q - Privately owned track south of Elkville

**Trackage Rights**

- AMTK
- AMVC
- AMUP
- AMW
- AMX
- AMZ
- AMAA
- AMAB
- AMAC
- AMAD
- AMAE
- AMAF
- AMAG
- AMAH
- AMAI
- AMAJ
- AMAK
- AMAL
- AMAM
- AMAN
- AMAO
- AMAP
- AMAQ
- AMAR
- AMAS
- AMAT
- AMAU
- AMAV
- AMAW
- AMAX
- AMAY
- AMAZ

# 2016 **IOWA RAIL PLAN**



## What's Next?



## Next HLSC Meetings and Topics

- Meeting #3:
  - Date: Spring 2016
  - Location: TBD
  - Topic: Draft Plans

# Stakeholder Participation



## Public and Online Meetings

- 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.
- Online meeting



Stay  
Involved



<http://engagefreightrailplans.iowadot.gov/>



Email us  
[info@EngageFreightRailPlans.com](mailto:info@EngageFreightRailPlans.com)

# Thank You

