

# **CREATE Program**

#### SHRP2 Railroad-DOT Mitigation Strategies (R16) Peer Exchange

October 4, 2017

### The U.S. Rail Network Depends on Chicago

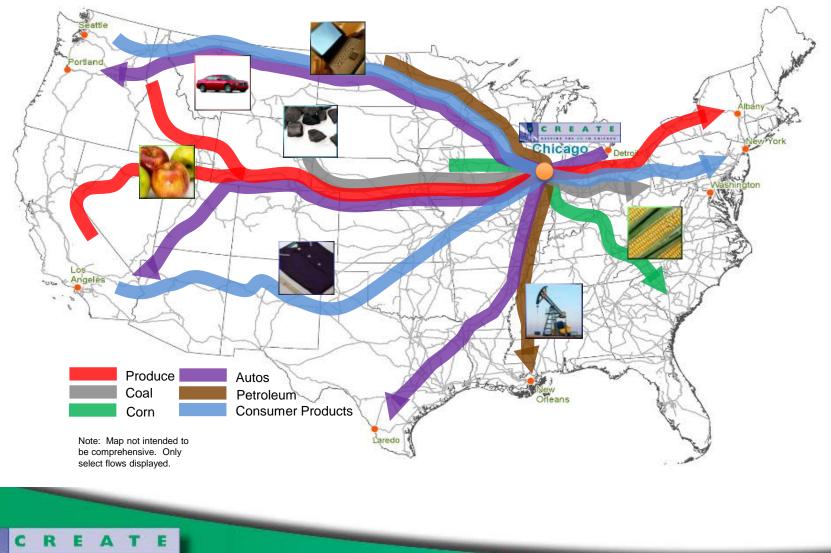
- 25 percent of all U.S. rail traffic touches Chicago
- 44 percent of all **intermodal** units in the U.S. touch Chicago
- 68 percent of intermodal units to/from the ports of Seattle/Tacoma touch Chicago
- 45 percent of intermodal units to/from Los Angeles/Long Beach touch Chicago



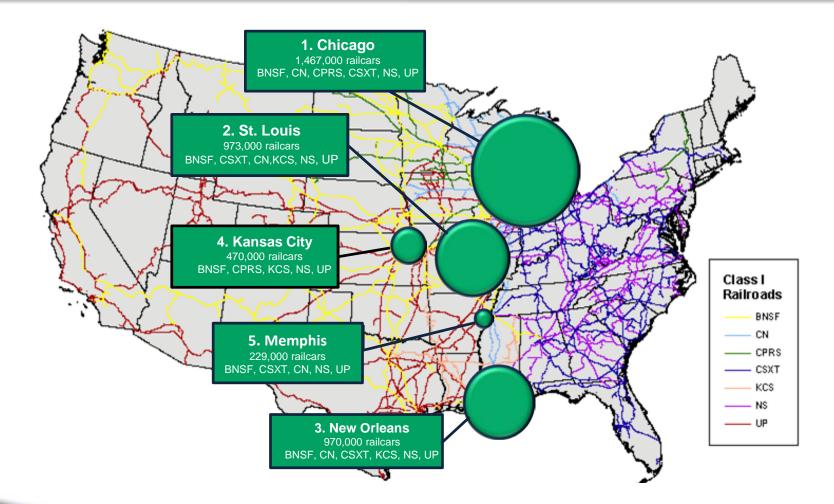
Source: AAR analysis of Railinc data and 2014 STB carload waybill data



### **CREATE: Keeping the Nation's Economy Moving**



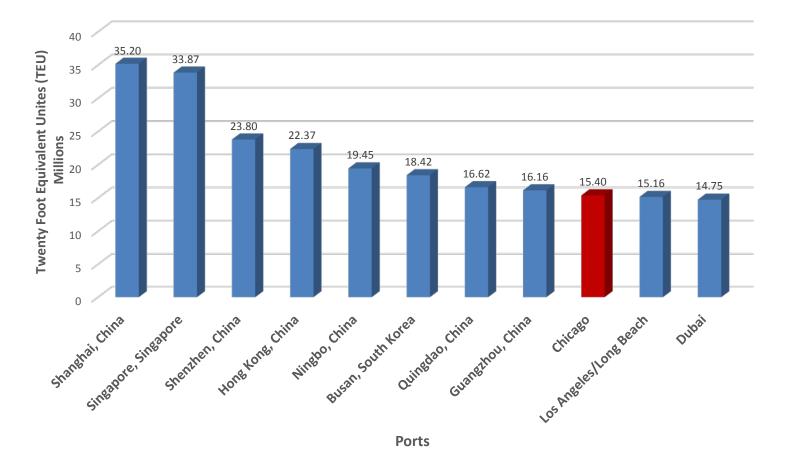
### East-West Freight Rail Gateways Ranked by Loaded Railcars per year



Source – U.S. DOT Freight Analysis Framework 4, 2015; includes freight originating and terminating at gateways – does not include through-freight



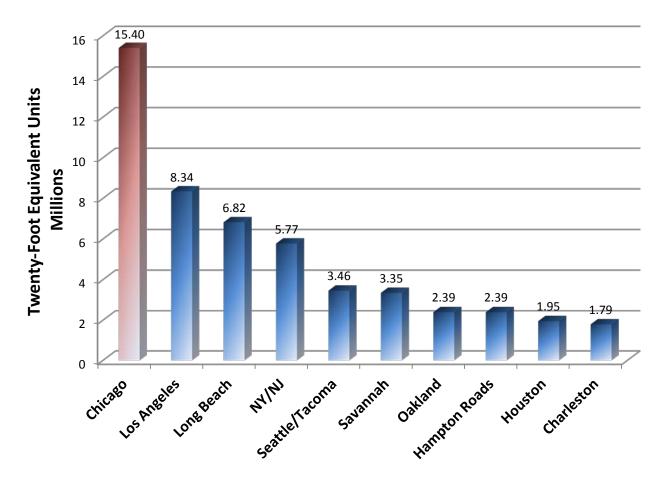
### **Top Global Container Ports, 2014**



Source: Chicago – Chicago Metropolitan Agency for Planning Freight Snapshot; American Association of Port Authorities, 2014



### Top U.S. Container Ports, 2014



Source: Chicago – Chicago Metropolitan Agency for Planning Freight Snapshot; American Association of Port Authorities, 2014



### Why CREATE?

- Freight rail trade (by value) within Chicago will more than double from 2012 to 2045\*
- Passenger, freight and motorist delays are experienced daily on the current system
- The region must improve freight movement and mitigate negative impacts
- Freight movements in Chicago are a NATIONAL and INTERNATIONAL issue, not just a regional one

"Global trade follows the path of least resistance. It will go where there are the fewest impediments." -UPS



\*U.S. DOT Freight Analysis Framework 4.0

### What is CREATE?

A \$4.4 billion Public-Private Partnership (PPP) designed to improve transportation flow through Chicago focusing on:

- Increased capacity, speed, reliability for freight train traffic
- Separation of freight & commuter trains at 6 key junctions
- Elimination of 25 road/rail grade crossings (grade separations)

#### **CREATE** is a cooperative project involving:

- US Department of Transportation (FHWA & FRA)
- Illinois Department of Transportation (IDOT)
- Chicago Department of Transportation (CDOT)
- Cook County
- 6 major North American freight rail carriers and 2 switching railroads
- 2 passenger carriers (Amtrak and Metra)



### **CREATE Partners**



### **CREATE Program – 70 Projects**

- 25 road/rail grade separations
- 6 passenger/freight rail grade separations
- Railroad projects to improve rail infrastructure and upgrade technologies
- Viaduct improvement program



- Grade crossing safety enhancements
- Rail operations and visibility improvements



## **Four Corridors**

- Passenger Corridors
- East-West Corridor
- Beltway Corridor
- Western Ave. Corridor





## 70 CREATE Projects $\Rightarrow$ 30-Year Benefits of \$31.5 Billion

#### **Rail Benefits**

Economic Growth Chicago can accommodate growth in passenger and freight trains

Fewer Delays Reduced delay to passenger and freight trains

Cost Savings Reduced shipping costs may be passed on to consumers Increased Safety Elimination of rail – roadway conflicts at 25 grade crossing sites

#### **Roadway Benefits**

Fewer Delays Reduced delay to vehicles from eliminating 25 grade crossings

Sustainability Reduced fuel consumption and emissions

Reduced Congestion Fewer trucks on the roadways



### **CREATE Economic Benefits**

- Passenger train delay reduced by over 1.3 million passenger hours annually
- 92,000 hours of truck delay and 230,000 hours of motorist and bus passenger delay will be saved
- 200 vehicle crashes with trains will be avoided
- 2,800 metric tons/year avoided emissions from idling vehicles
- Enable extra 50,000 freight trains to travel through the greater Chicago rail network annually
- 122 million tons of freight per year would travel by rail, avoiding 18,500 truck trips per day on highways

Source: CREATE economic benefits study conducted by Cambridge Systematics, 2015



### **CREATE Public Benefits**

### • Passenger Rail Delay Reduction

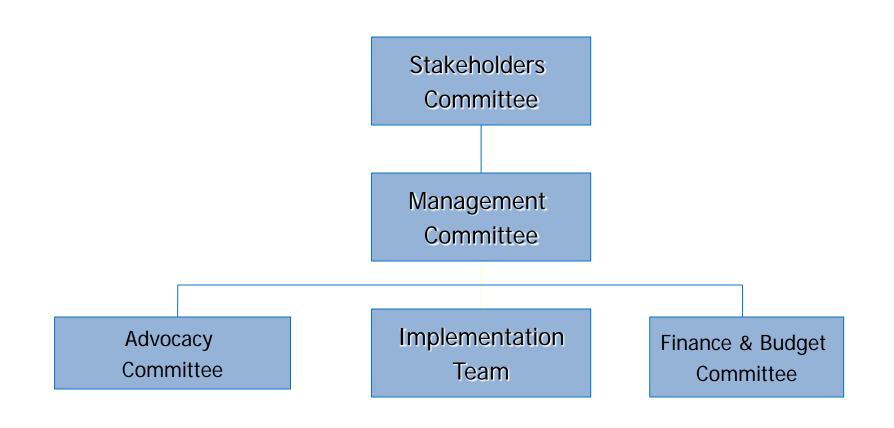
- 10 projects benefit Amtrak
- 18 projects benefit Metra Commuter Rail
- Auto Delay Reduction
- Safety Improvements
- Air Quality Benefits
- Community Quality of Life







### **CREATE Organization**





### **CREATE Stakeholders Committee**

#### Composition

- Railroad AAR represents all Class I railroads, Metra, Amtrak
- Illinois DOT Secretary of Transportation
- Chicago DOT Commissioner of Transportation
- Cook County Superintendent of Transportation and Highways
- USDOT (non-voting)

#### Responsibilities

- Set policy for CREATE Program
- Resolve all Program issues
- Represent the CREATE partnership
- Seek resources to build the CREATE Program



CHICAGO DEPARTM



り)Illinois Department of Transportation





### **CREATE Management Committee**

#### Composition

- IDOT, CDOT, Cook County, FHWA (non-voting)
- BNSF, CN, CP, CSX, NS UP, Metra, CTCO, AAR
- Amtrak, BRC, IHB (all non-voting)
- Co-Chairs Railroad Chicago Planning Group Co-Chairs

#### Responsibilities

- Review and approve project designs
- Review and approve project cost estimates
- Address program management issues
- Review and recommend program modifications



### **CREATE Implementation Team**

#### Composition

- IDOT, CDOT, Cook County, FHWA
- BNSF, CN, CP, CSX, NS, UP, Metra, Amtrak, BRC, IHB, CTCO, AAR
- Co-Chairs Railroad (1) and Public (1)

#### **Roles and Responsibilities**

- Review engineering plans
- Recommend scope, schedule, budget changes to the Management Committee
- Provide engineering input to project engineers
- Establish project standards and policies





### **CREATE Advocacy Committee**

#### Composition

- IDOT, CDOT, Cook County
- BNSF, CN, CP, CSX, NS, UP, Metra, Amtrak, BRC, IHB, CTCO, AAR
- Co-Chairs Railroad (1) and Public (2)

#### Responsibilities

- Identify and address community concerns
- Oversight of public outreach
- Develop and execute advocacy plan



The 75th Street Corridor Improvement Project (75th St. CIP) is an extremely critical project for the Chicago Region Environmental and Transportation Efficiency (CREATE) Program – a public-private partnership forged to untangle and improve the efficiency of the region's rail infrastructure in order to ensure Chicago's preeminence in the nation's rail system.

The 75<sup>th</sup> St. CIP is the single largest project to be undertaken through CREATE, encompassing roadways and train tracks in the Ashburn, Englewood, Auburn Gresham and West Chatham neighborhoods which today intertwine and intersect creating passenger rail, freight rail and road traffic delays. The goal of the project is the separation of the rail lines from each other and from the roadways they intersect.

#### Funding Needed

The immediate funding need is for the \$75 million design phase. It is imperative to start the design in order to remain on budget. If construction does **not** start by 2017 costs are expected to increase by \$2.5 Million per month.

#### Partners

The 75<sup>th</sup> St. CIP Project Team includes the Illinois Department of Transportation (IDOT), the Federal Highway Administration (FHWA), the Chicago Department of Transportation (CDOT) and the Association of American Railroads (AAR) with Amtrak and Metra.

#### **Project Benefits**

- Decreased train idling and improved air quality in the surrounding neighborhoods
- Replacement or rehabilitation of 36 viaducts serving nearby neighborhoods, improving mobility, safety, and security
- Increased capacity at Union Station by shifting some Metra commuter rail service to another downtown terminal
- Elimination of a rail/roadway grade crossing, reducing congestion and improving safety for motorists and pedestrians
- Removal of conflicts between freight and commuter trains, eliminating 18,500 annual passenger hours
  of delay and increasing train reliability, speed, and capacity





### **CREATE Finance Committee**

#### Composition

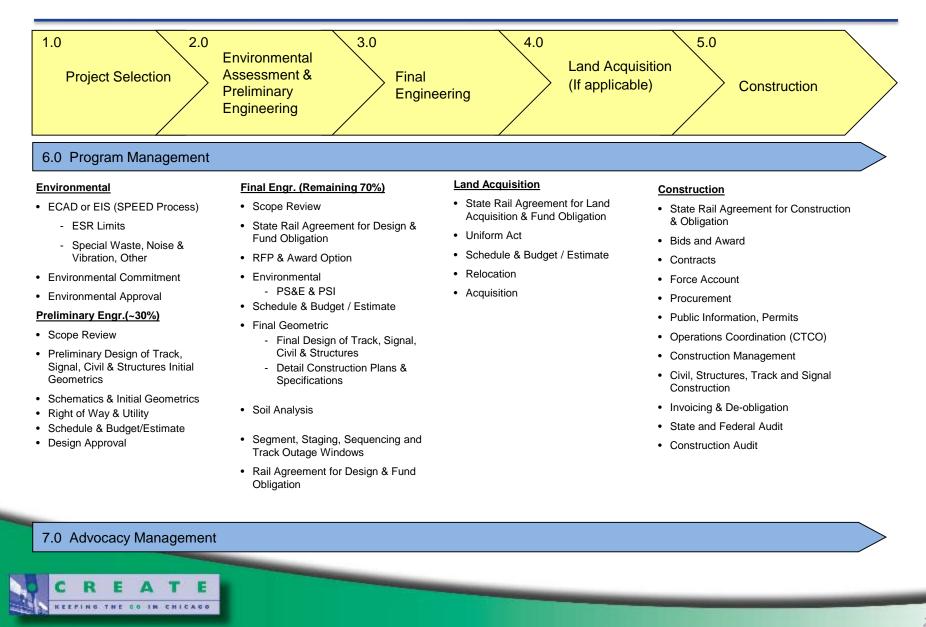
- IDOT, CDOT, Cook County
- BNSF, CN, CP, CSX, NS UP, Metra, Amtrak, BRC, IHB, CTCO, AAR
- Co-Chairs Railroad (1) and Public (1)

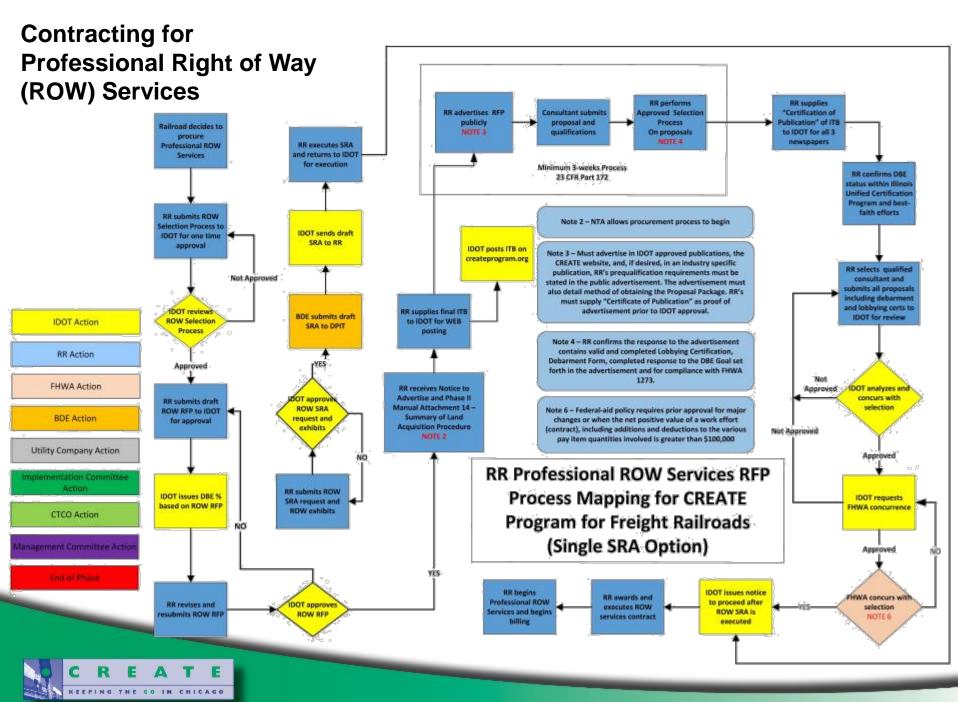
#### **Roles and Responsibilities**

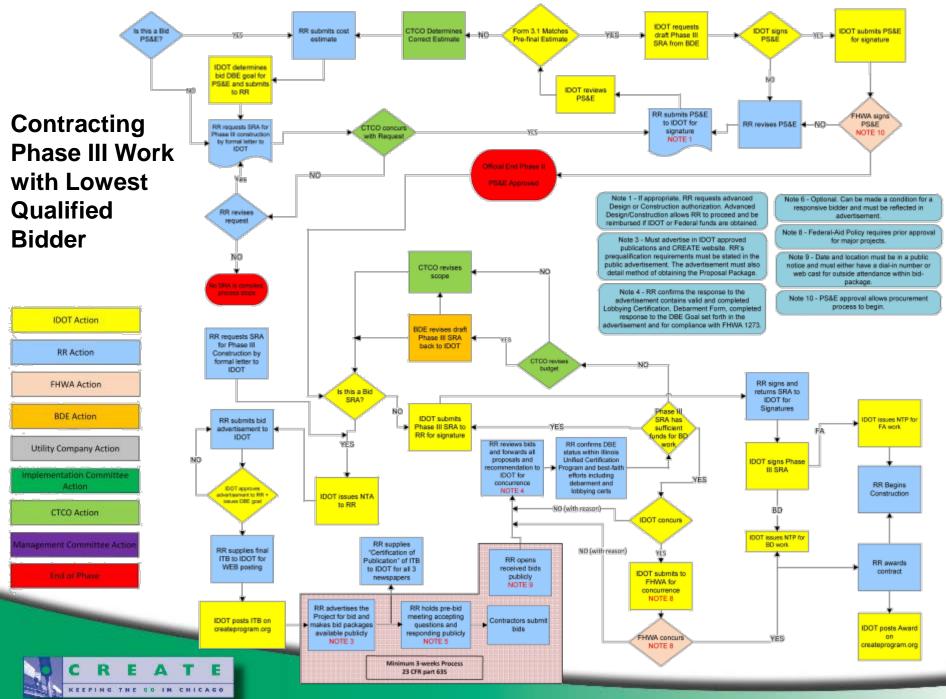
- Investigate and seek funding opportunities
- Monitor project cost estimates versus actual expenditures
- Track funding sources for each project



### **Project Stages**







### **CREATE Commitments Received To Date**

#### Federal - \$435 Million

- TIGER I & TIGER IV Grants
- SAFETEA-LU PNRS Grant
- ARRA High Speed Rail Grant
- Railroad Relocation Grant
- FRA STEP
- State \$480 Million
  - Illinois DOT (Illinois Jobs Now!, ICC, PNRS/TIGER match, grade separations)

#### Railroad - \$365 Million

• Railroad partners (railroad infrastructure, grade separations)

#### Local Governments - \$136 million

• Chicago DOT, Cook County & other local governments (viaduct improvements, grade separations, land acquisition)



## **Project Status**

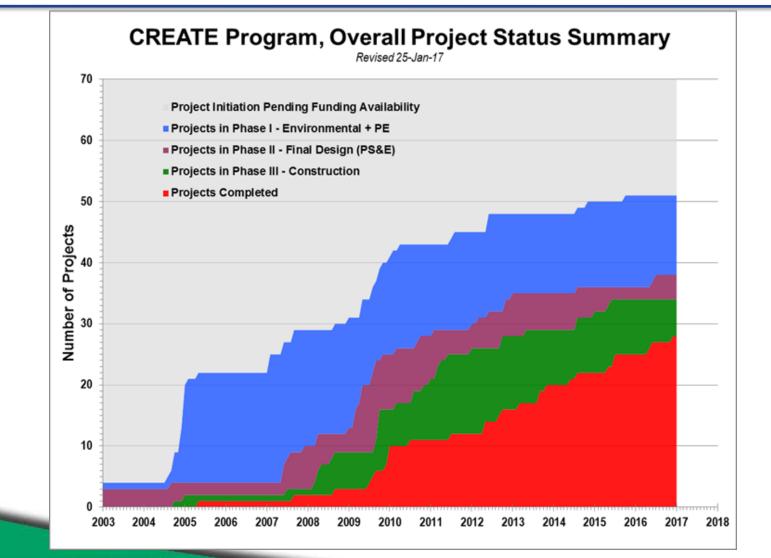
<b>Completed Projects</b>	28
<b>Under Construction</b>	6
Final Design	4
<b>Environmental Review</b>	13
<b>Remaining Projects</b>	19
TOTAL	70







### **Project Status Summary**





## **2017 INFRA Grant Opportunity**

- CREATE is applying for \$160 million 2017 INFRA grant:
  - To design all of 75<sup>th</sup> Street Corridor Improvement Project
  - To build first half of 75<sup>th</sup> Street CIP plus Argo Connections project
- INFRA grant will cover only 1/3 of the funding; remaining 2/3 will come from: private freight railroads, IDOT, Cook County, Chicago DOT, Metra, Amtrak
- CREATE team seeks nationwide support for application
  - Various MPOs, State DOTs, rail shippers, ports, etc.
  - Letters of Support are appreciated



## 75th Street CIP – Existing Conditions

### Four Environmentally Linked Projects:

#### Forest Hill Junction & 71st Street Grade Crossing

 North-south CSX tracks cross three other east-west tracks and one city street

#### **Belt Junction**

- Five tracks cross paths and converge into two tracks
- Multiple freight & passenger routes cross paths

#### **80th Street Junction**

• Six tracks cross paths and converge into two tracks



#### **Environmental Impact Statement (EIS) is complete**



nois Departmen

### **75th Street CIP - Benefits**

#### **Benefits**

- **Reduce conflict between trains:** 
  - 30 Metra SouthWest Service trains per day
    - Improve service reliability with dedicated Metra tracks
    - Expand capacity by rerouting from Union Station to LaSalle Street Station
  - 2 Amtrak trains per day (to Indianapolis and points East)
  - 90 Freight trains per day

# Reduce traffic delays and community disruption

Improve safety at 71st/Bell grade crossing











### **Project Delivery**



### WA2/WA3 – Subdivision Capacity CSX/NS – Expansion Chicago

- Crossovers
- Connections
- Signals
- Completed June 2016

#### **Reduce Rail/Rail conflict**



### WA2 – CSX/NS

### **Upgrading hand throw switches and adding signals**





# WA4 - BNSF/CN/NS/CSX

## Chicago

- Crossovers
- Connection
- Bridge upgrades
- In progress
- Scheduled to be completed 2017

#### **Reduce rail/rail conflicts**





### WA4.4 – BNSF New Track and Bridge over 26<sup>th</sup> Street 149+00 Looking North

#### Before 2014

#### In progress 2015





### WA4.8 – BNSF Canal Bridge 174+50 Looking South

#### **Before 2014**

#### In progress 2015







## **Union Pacific Third Mainline (B2)**

### •Location: Melrose Park, IL

•60 freight trains & 59 Union Pacific Metra trains affected

### •Actions

- Constructed 3.5-mile third main track on UP Geneva Subdivision
- Constructed railroad bridge over Addison Creek
- Constructed flyover connection from the Indiana Harbor Belt to the UP
- Control points reconfigured
- Track between the UP and IHB upgraded
- The Metra Berkeley and Bellwood passenger stations improved; pedestrian underpasses constructed



Before



After



### P1 – Englewood Flyover METRA/NS/Amtrak – Chicago

- Removes conflict point between commuter, passenger, and freight trains, alleviating delay for commuters and Amtrak's most severe delay point in the Midwest.
- Completed 2014

**Reduce rail/rail conflicts** 





# P1 – Flyover South Looking North

#### **Before 2011**







### GS6 – 25<sup>th</sup> Ave UP-METRA Melrose Park/Bellwood

- Eliminates grade crossing, reducing congestion and improving safety for 19,000 vehicles daily.
- Completed December 2016





## GS6 – 25th Ave North looking South Just south of Lake Street

#### **Before 2012**







### G<u>S14 - 71<sup>st</sup> St</u> CSX-IHB Bridgeview

- Grade separation of 71st Street and the IHB/CSX tracks just west of Harlem Avenue
- Road underpass
- Completed November 2013

Eliminated road/rail conflict



### **GS14 – 71st Street/CSX Grade Separation**

#### **Before 2011**







### GS15a – 130<sup>th</sup> & Torrence NS – Chicago

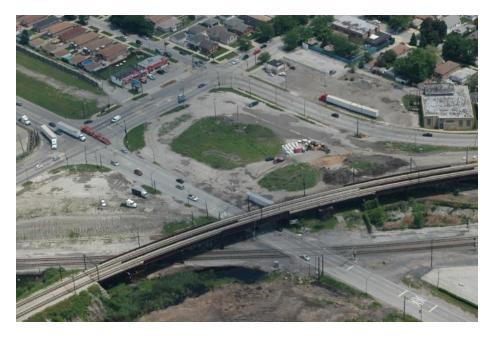
- Eliminates the at-grade crossings of the two Norfolk Southern main tracks with 130th Street and Torrence Ave.
- Eliminates conflict between railroad and access to Ford Plant
- Road Underpass
- Completed June 2015

Will eliminate road-rail conflicts



#### GS15a-130<sup>th</sup> Street & Torrence Ave. /NS Grade Separation

#### **Before 2011**







# GS16 – Irving Park Road York Road

- **CP Chicago/Bensenville** 
  - Just east of York road on Irving Park road
  - Road underpass
  - In progress
  - Scheduled to be completed in October 2017

Eliminated road/rail conflict



### **GS16 – UPRR Bridge in the background**

#### **Before 2013**

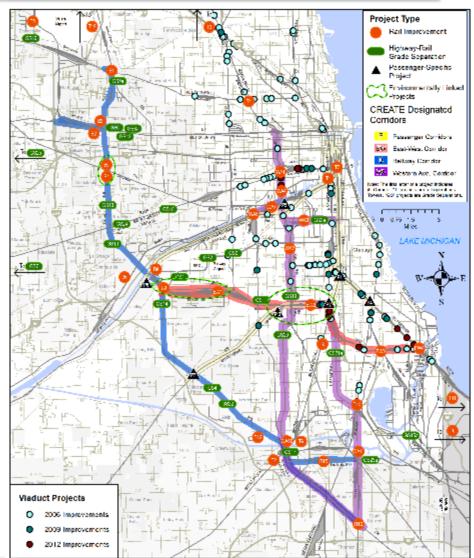






## **Viaduct Program**

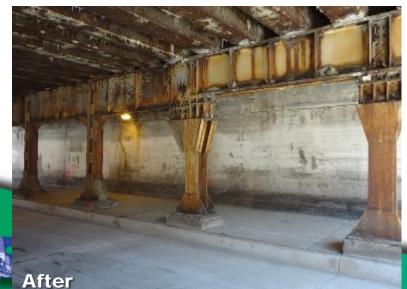
- Locations in the City of Chicago
- Improved roadways, sidewalks and drainage under railroad viaducts
- Enhanced safety and security for motorists, pedestrians, and bicyclists
- 37 locations completed in 2006
- 14 locations completed in 2012 (USDOT TIGER funding, \$5 million)
- 11 completed in 2015/2016 (State of Illinois funding)



## **Viaduct Improvement Program**

#### Example: 1530 S Racine Avenue





#### Example: 1530 S Loomis Street



# **CREATE Next Steps**

- Continue to leverage all funding opportunities
- Promote and advocate for 75<sup>th</sup> Street CIP INFRA application



- Complete:
  - Remaining Rail Corridor Projects
  - Remaining Passenger-Freight Rail Flyover Projects
  - Remaining Grade Separation Projects



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