



NEW PARTNERS FOR SMART GROWTH CONFERENCE

STRATEGIES FROM OUR NATION'S WORKING WATERFRONTS

FEBRUARY 4, 2017



Henry Pontarelli, Lisa Wise Consulting, and NWWN

Mark Breederland, Michigan SeaGrant, and NWWN

Chris Hermann, MKSK

Peter Malinowski, Billion Oyster Project

Susan Taylor, St. Louis Port Authority



WORKING WATERFRONTS



U.S. WATERFRONT ECONOMY: DIVERSE &

VALUABLE



- 149,000 businesses
- 3 million employees
- \$117 billion in wages
- \$359 billion GDP
- Shipping \$886m

LISA WISE CONSULTING, INC.

- Economic Analysis
- Strategic and Land Use Planning
- Community Engagement
- National Working Waterfront Network



PORT OF LA: PLANNING TOOLS FOR

Land Use Plan:

- Driver for Investment

Implementation Strategy:

- Lease Stability
- Stakeholder Awareness
- Cultural Connection



PORT SAN LUIS: INNOVATIVE FUNDING



Non-Traditional Financing:

- Public Agency Loan

Implementation Strategy:

- Development Permit
- Private Investment

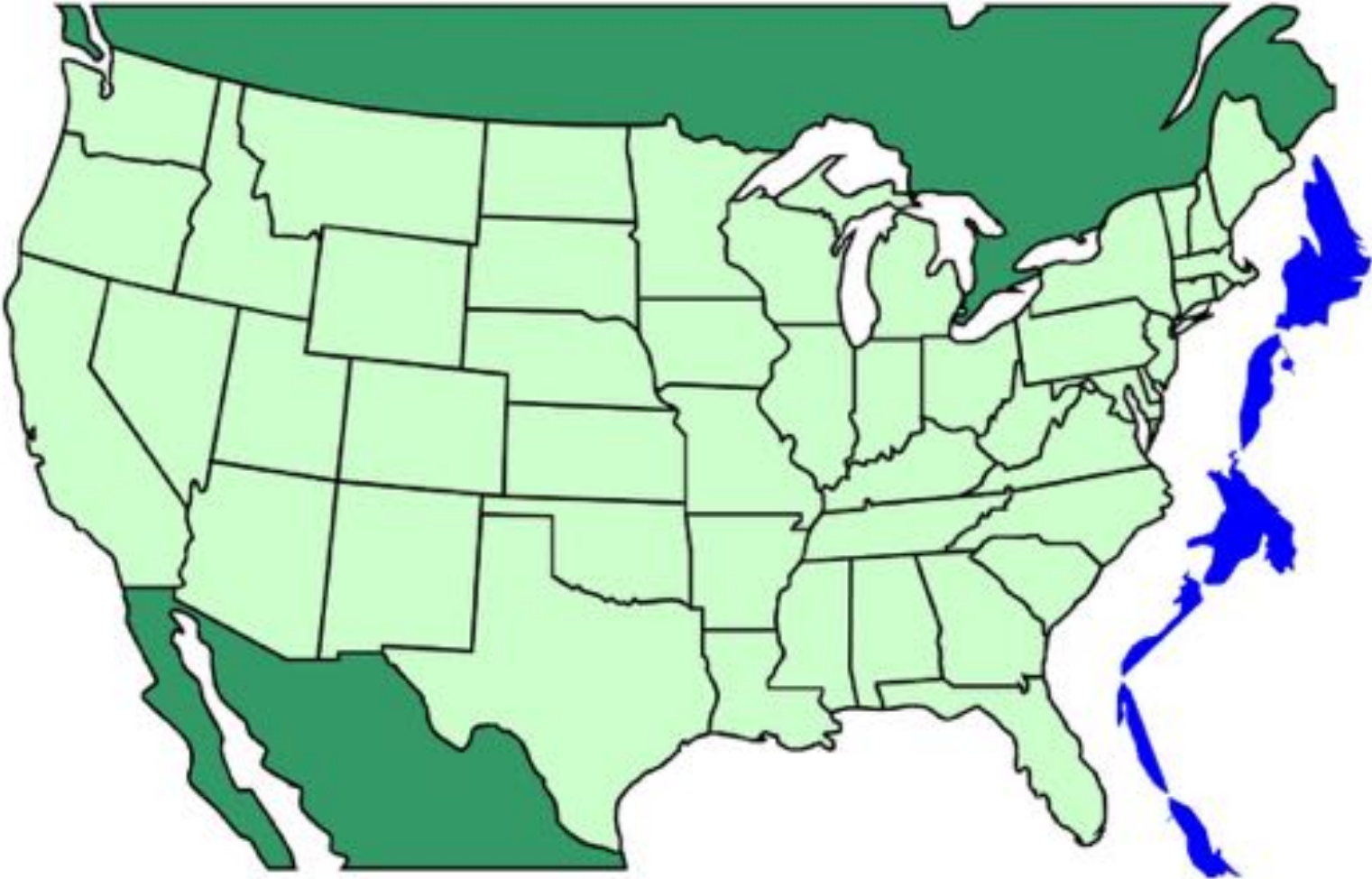
SAVE THE DATE!



GREAT LAKES COASTLINE



Great Lakes Coastlines



MICHIGAN'S FISHTOWN:

LELAND, MICHIGAN



FISHTOWN, LELAND, MI

Commercial and sport fishing village that embraces history and natural environment



FISHTOWN

AUTHENTIC WORKING WATERFRONT



1920



Today

FISHTOWN

AUTHENTIC WORKING WATERFRONT



1920



Today

FISHTOWN

HISTORIC PRESERVATION AND COMMUNITY

INVOLVEMENT: Preservation Society: provide visitors with access to authentic, active fishing village...



FISHTOWN

HISTORIC PRESERVATION AND COMMUNITY

. Involvement and inspire a sense of community, responsibility and stewardship



FISHTOWN

NAGGING CHALLENGES

Dredging for harbor access



FISHTOWN FOREVER: www.fishtownmi.org

Who We Are



Fishtown is a collection of weathered fishing shanties, smokehouses, overhanging docks, fish tugs and charter boats along the Leland River in Leland, Michigan. The heart of a commercial fishing village, Fishtown is where we can still see and feel a connection to the long tradition of Great Lakes maritime culture.

[Learn More](#)

What We Do



Fishtown Preservation is a not-for-profit organization dedicated to preserving the historical integrity of Fishtown and ensuring that it continues as a publicly accessible and authentic connection to local and regional history, Great Lakes commercial fishing, and maritime traditions and experiences.

[Learn More](#)

You Can Help



Few places are as real as Fishtown. Here we can preserve a living link to a long Great Lakes maritime heritage, as well as to our own families and memories. We want to ensure that Fishtown remains alive for future generations. Your participation will make all the difference for Fishtown.

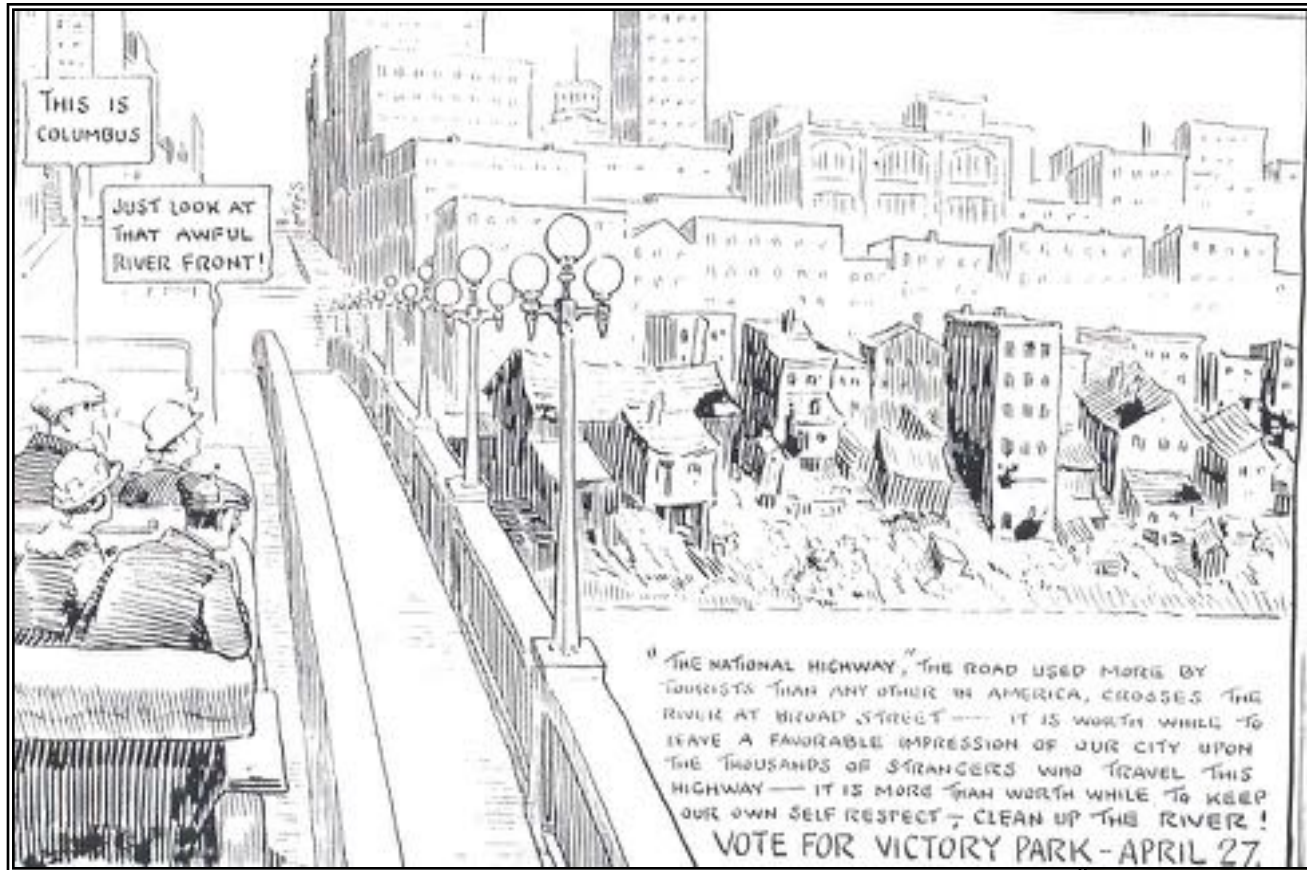
[Learn More](#)

TRANSFORMING THE COLUMBUS RIVER

MKSK



COLUMBUS RIVERFRONT – LONG-



Columbus Evening Dispatch, 1920

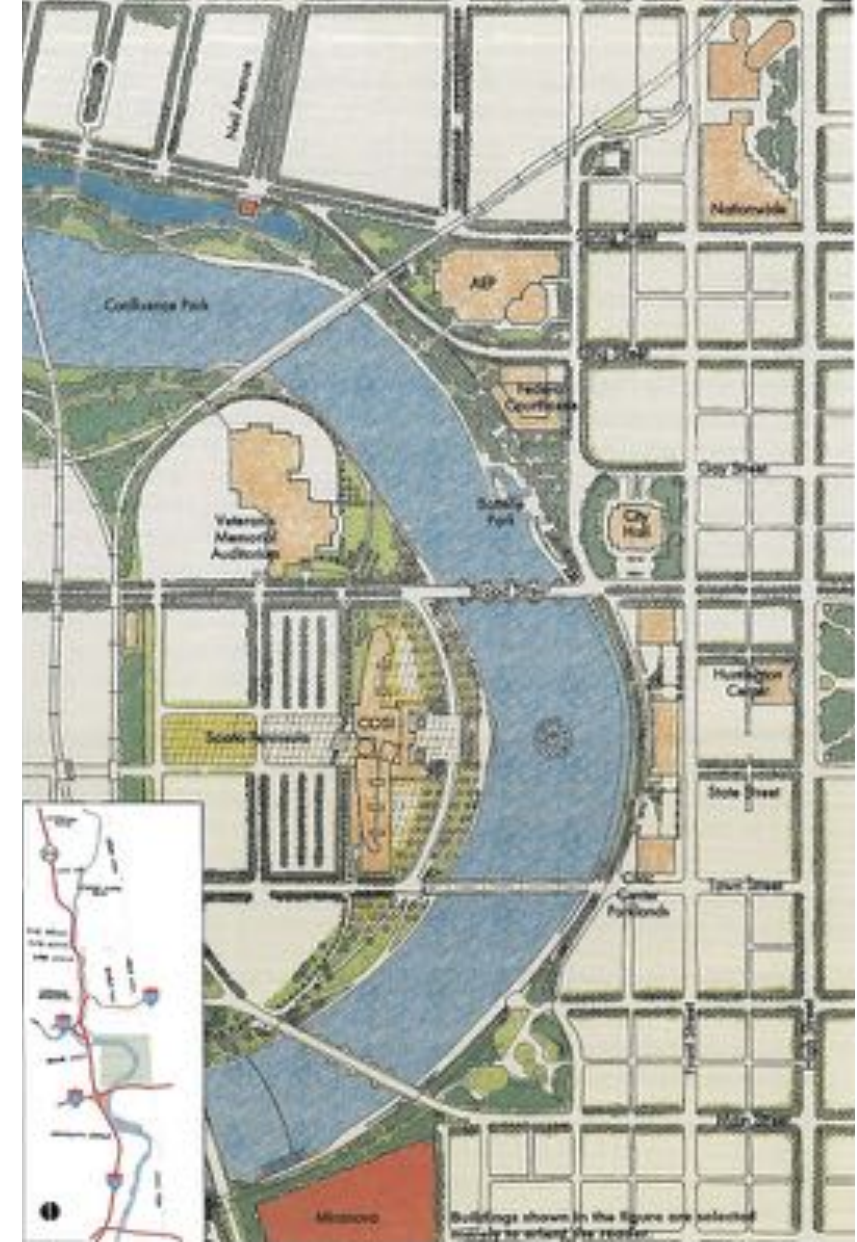


Columbus Evening Dispatch, June 6, 1926

RE-STARTED WITH A VISION

Riverfront Vision Goals - 1997

- The river should contribute to the overall image of Columbus.
- The river should be a destination in and of itself.
- The river should be a connector between activities and places.
- New development should be mixed use and mixed income.
- The river should be accessible by diverse communities.
- The riparian environment is a special asset to the city.



1995



2015



NORTH BANK PARK - 2006



WHITTIER PENINSULA

- 2008



SCIOTO MILE - 2011



MAIN STREET DAM REMOVAL (2013)



SCIOTO GREENWAYS PROJECT – NOVEMBER

2013



SCIOTO GREENWAYS PROJECT – SUMMER

014



SCIOTO GREENWAYS PROJECT – NOVEMBER

015



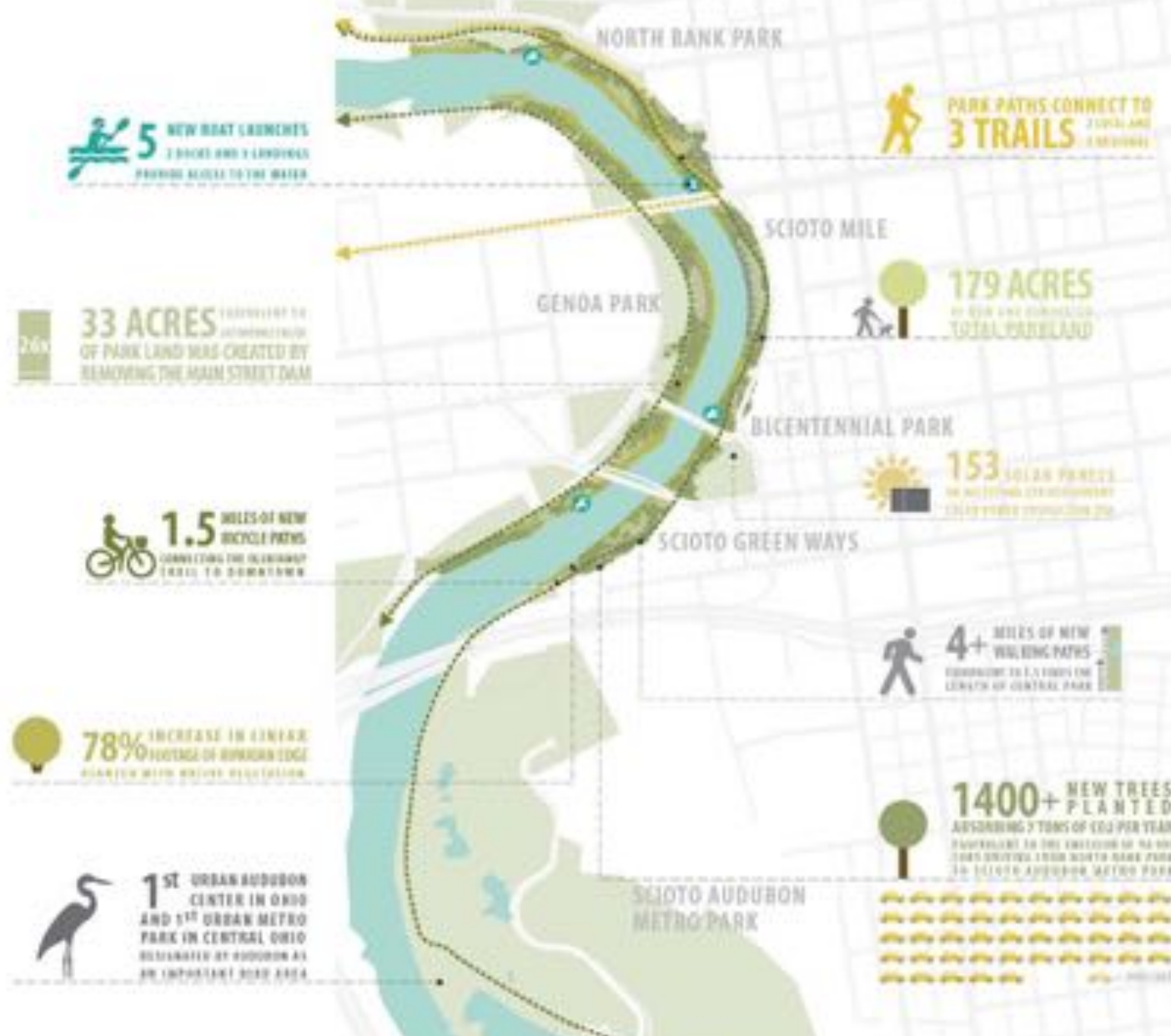








RIVERFRONT TRANSFORMATION



RIVERFRONT TRANSFORMATION



\$220 Million CIVIC
INFRASTRUCTURE

\$1.36 Billion PRIVATE



BILLION OYSTER PROJECT



BILLION OYSTER PROJECT

- Restoring a native keystone species to New York Harbor
- Reconnecting New Yorkers to the water by engaging them directly in the work of restoring oysters



CAREER DEVELOPMENT

Harbor School Student

- Specialize in one of six Marine Fields
 - Aquaculture
 - Vessel Operations
 - Marine Systems
 - Ocean Engineering
 - Marine Biology
 - Professional Diving



LEARN BY DOING



OYSTER RESTORATION STATIONS

Oyster Restoration Research

- Oyster Growth and Survival
- Mobile Invertebrates
- Sessile Invertebrates
- Water Quality
- Site Conditions



- The three components of the ORS are, from top to bottom:

oyster cage



mobile organism trap



settlement panels (tiles)



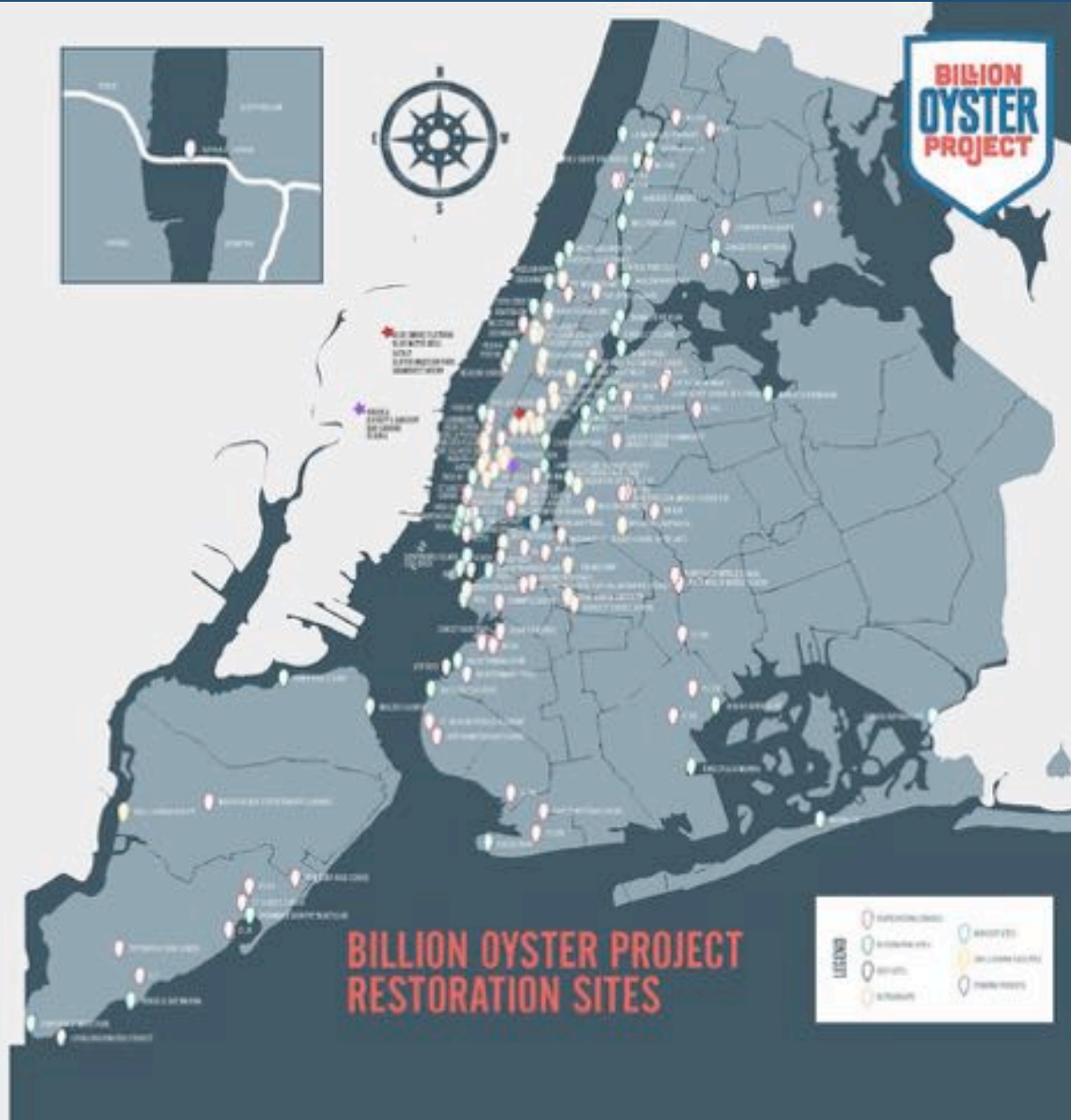
BRINGING RESTORATION TO SCALE



CITY-WIDE EFFORT

Various Stakeholders

- Restaurants
- Schools
- Community Groups
- Non-Profits
- Government Agencies



ST. LOUIS PORT AUTHORITY

www.stlouisportauthority.org

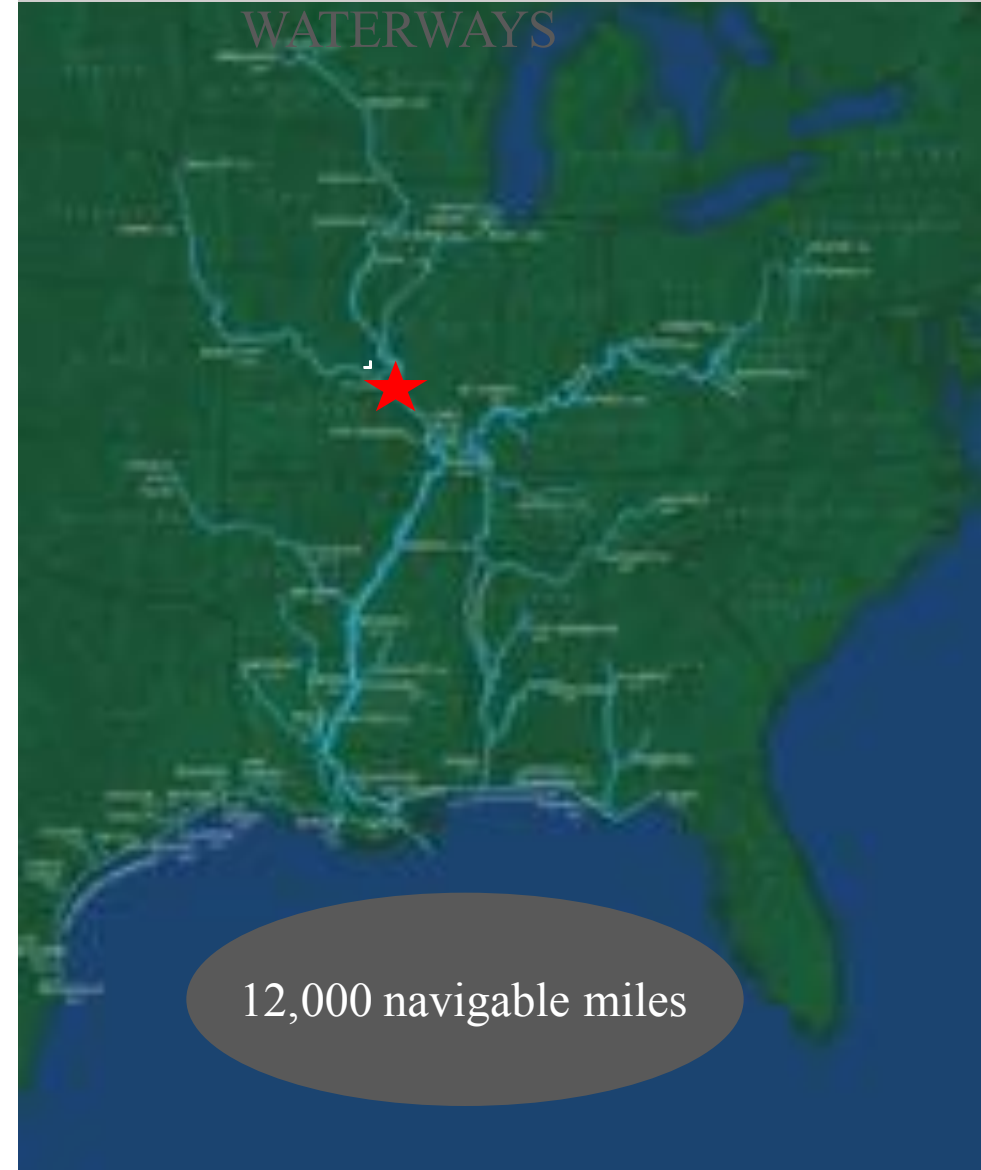


ST. LOUIS PORT AUTHORITY

Port of Metropolitan St. Louis

- 70 miles long (per Army Corps)
- 130 shipping facilities in MO and IL
- 17th largest US port: 109M tons/yr
- 11 river crossings here
- 40% of US agricultural output moves on the Mississippi annually
- \$405B Mississippi River total economic value/year
- 300' wide channel, 9' minimum depth
- Northernmost ice-free and lock-free port on the Mississippi

US INLAND WATERWAYS



12,000 navigable miles

ST. LOUIS PORT AUTHORITY



UPPER
MISSISSIPPI
RIVER L&D #15
IN ROCK
ISLAND, IL:
BREAK TOW
TO LOCK
THROUGH



FLEETING (BARGE PARKING

BARGE

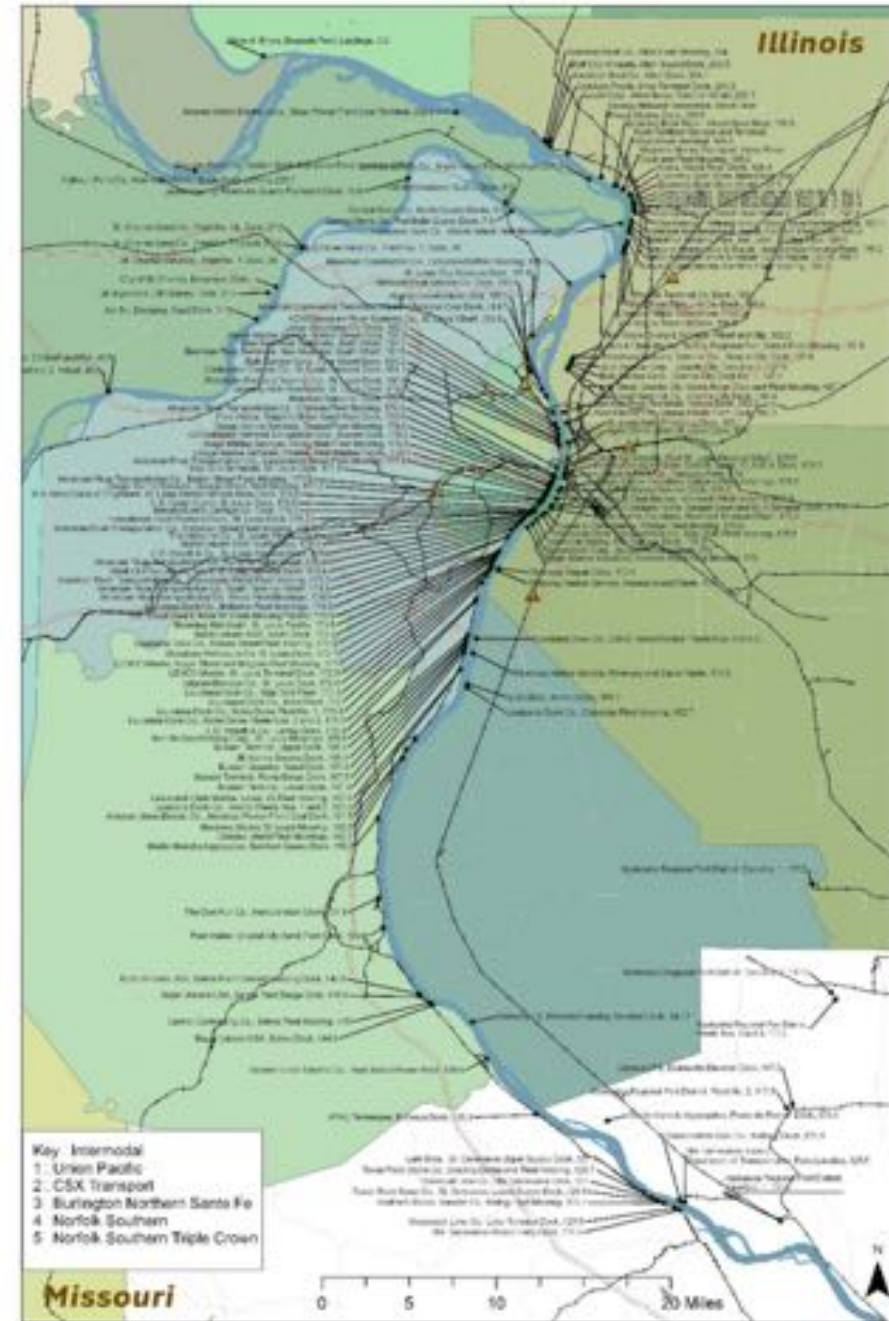
LOWER
MISSISSIPPI
RIVER TOW: 48
HOPPER BARGES



ST. LOUIS PORT AUTHORITY

Multi-modal: 7 interstates, 6 Class one railroads, 2 international airports, 6 major barge lines, 15 natural gas and refined-product pipelines

The Port of Metropolitan St. Louis



ST. LOUIS PORT AUTHORITY

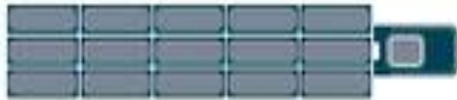
BARGE EFFICIENCIES

How does each compare?

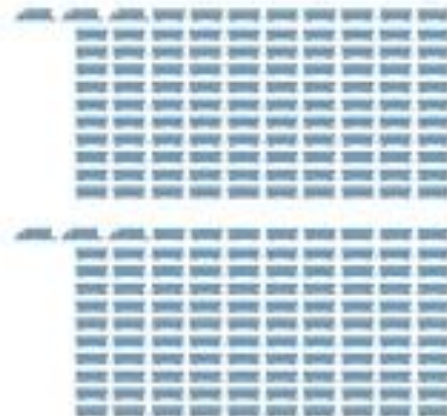
1,050 Large Semi Tractor-Trailers



One 15-Barge Tow



216 Rail Cars + 6 Locomotives



Ton-miles Traveled per Gallon of Fuel

Units to Carry 1,750 Short Tons of Dry Cargo



Barges have the smallest carbon footprint among other transportation modes.

To move an identical amount of cargo by rail generates 30% more carbon dioxide than by barge, and 1,000% more emissions by trucks than by barge.



Tons of CO2 per Million Ton-miles

ST. LOUIS PORT AUTHORITY

St. Louis Port District

- 6,000 acres
- 19-mile riverfront
 - 2/3 leased by Port Authority to private shippers/carriers
 - 20M tons/year



Municipal River Terminal (public dock)

- 40 acres, 4300' shoreline, 67 barge fleetings
- 2000' dock, 250-ton crane load
- RR spur into facility
- Direct access to I-70, new Mississippi River Bridge
- 250K SF warehousing

Operated by SCF Lewis and Clark Terminals



ST. LOUIS PORT AUTHORITY

CAPITAL IMPROVEMENTS

MUNICIPAL RIVER TERMINAL DOCK MODERNIZATION (2013)

\$20M = \$16M federal grant + \$4M Port Authority



BEFORE - PHOTO

Old South Dock, abandoned Middle Dock

1470' mooring: 5-6 barges



AFTER - RENDERING

Rebuilt South Dock, new Middle Dock
2000' mooring: 8-10 barges

ST. LOUIS PORT AUTHORITY



North Dock Upgrade, 2015

\$664K = \$389K state grant + \$275K Port Authority



Warehouse

Lighting, 2016

\$664K = \$317K state grant + \$149K SCF



Railroad Improvements, 2017

- \$44K rail access plan = \$44K Port Authority
- \$1.5M track design/construction = \$1.2M state + \$300K SCF
- \$3M track construction = \$3M SCF

ST. LOUIS PORT AUTHORITY

COLLABORATION

East West Gateway Council of Governments

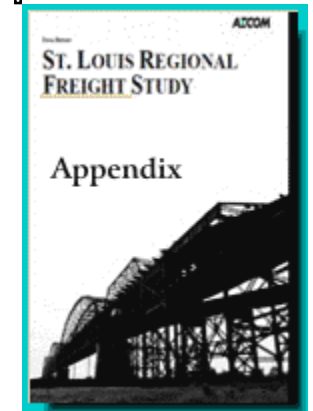
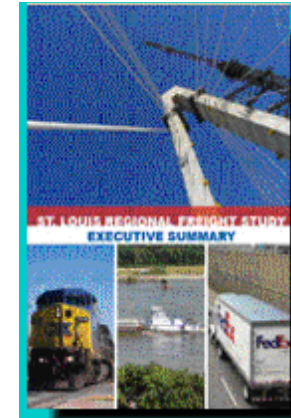
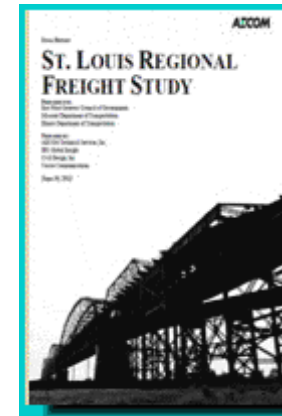
Metropolitan Planning Organization, receives federal transportation funds

<http://www.ewgateway.org/freight/freight.htm>

Regional Freight Plan, completed 2012, recommended:

We must compete as a region

1. Create Regional Freight Authority
2. Create Regional Freight District
3. Develop Prioritized List of Regional Projects



Mary Lamie, P.E., Executive Director, Started July 1, 2015

<http://www.thefreightway.com/>

ST. LOUIS PORT AUTHORITY

COLLABORATION

Mississippi River Cities & Towns Initiative (www.mrcti.org)

- Created in 2012, based in St. Louis
- 124 mayor led cities and towns on main stem, 70 joined MRCTI
- Mayor Slay was founding mayor

St. Louis will host annual meeting in September, 2017.



Colin Wellenkamp, Executive

The Mississippi River Cities and Towns Initiative (MRCTI) matters of concern:

- River water quality and habitat restoration
- State coordination around River management and improvement
- More impactful water conservation measures
- Sustainable economies
- Celebration of the River culture and history

Mayors Set to Meet in DC

Mayors will gather in Washington, DC Feb 28-March 2, 2017 to make a critical push for valuable infrastructure investment from the incoming administration. Mayors have set both natural and conventional infrastructure as a priority and will meet with Washington leaders to devise a plan forward.

ST. LOUIS PORT AUTHORITY

COLLABORATION

Mississippi River Cities & Towns Initiative

Mississippi River Cities & Towns 300 years of America's Manifest Destiny

MRCTI has realized success in securing a Sustainable future for the Nation's Great Waterway in just four years.

- \$165 million enacted for Section 319 Water Pollution Grants
- \$100 million enacted for Pre-Disaster Mitigation Grants
- Established Sustainable Waterfront Development Fund
- Re-Linked conservation compliance to crop insurance
- \$5 million enacted for the Marine Highway Program
- Preserved SRFs above \$2 billion for FY 2015



MRCTI Global River Talks Sustaining the World's Food-Producing Rivers COP 21: Paris, France 2015

At COP 21 in Paris, Mayors of the Mississippi River successfully brokered a food and water security agreement among 15 nations in North America, Europe, and Africa.

The Mississippi River ranks first in the world's food-producing river basins. For the first time, the Mississippi is taking a leadership role in sustaining the world's freshwater ecosystems and economies.



At the World Assembly of River Basins in Merida, Mexico, MRCTI Co-Chair, Gretna, LA Mayor Belinda Constant successfully brokered a food and water security agreement with river basin organizations comprised of over 70 nations.

This was the first time the Mississippi River specifically was represented at the International Network of Basin Organizations' World Assembly. Recognizing the impact of climate change on the world's food-producing river basins, river networks from Africa, Europe, South America, and North America were eager to sign.



Following global river talks in Paris during COP 21 and in Mexico during the World Assembly of River Basins last week, Mayors of the Mississippi River Cities & Towns Initiative (MRCTI) represented America's most important waterway at the U.S.-China Climate Leaders Summit presenting on the importance of river valley ecology in capturing carbon.

Mayor Chris Coleman of St. Paul, MN and Mayor Roy Buol of Dubuque, IA urged important natural infrastructure provided by river valleys be made part of city carbon reduction efforts and called for a profile of the Mississippi River's environmental services.





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