

2025 MO TEAM Conference March 12, 2025



TRANSYSTEMS



GATEWAY FOR EREIGHT



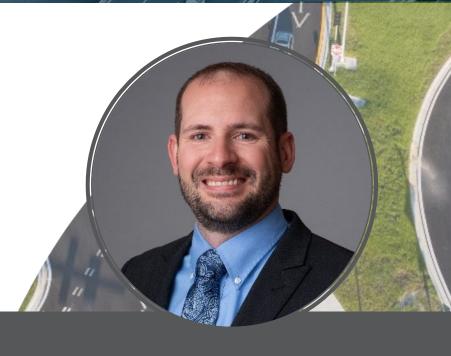
Maitland Mehlhaff
Multimodal Logistics Manager

Port KC



Frank Weatherford, PE Senior VP, Principal

TranSystems



Chad Banka, PE, PTOE, ENV SP
Project Manager

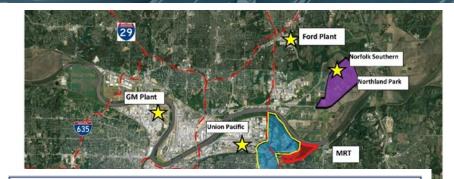
TranSystems

THEVISION

What is MRT?

The *Missouri River Terminal*, referred to as "MRT" is the site for a **state-of-the-art inland port container**facility that will be the premier destination of rail, truck, and freight movements in the Kansas City Region



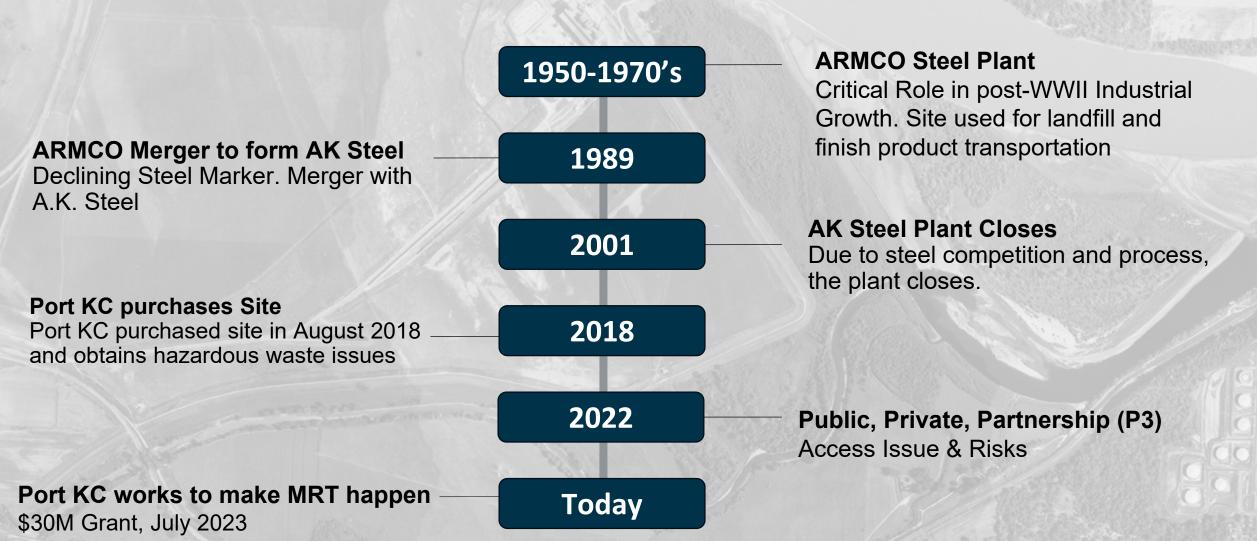


"Development of the MRT will benefit the Kansas City region by providing transportation infrastructure, environmentally remediating a contaminated property, and providing economic and employment reinvestment to spur growth in an area growth which has been long-neglected since the closing of the steel mill."

Missouri Governor Michael Parson



THEHISTORY



THEOPPURTUNITY

River/Rail/Highway Intermodal Terminal

Strategic Location

The site offers a unique intermodal opportunity.





MultimodalConnectivity

We're creating a River/Rail/Highway hub for efficient freight transfer.

Economic Growth

The terminal will boost regional economic development.



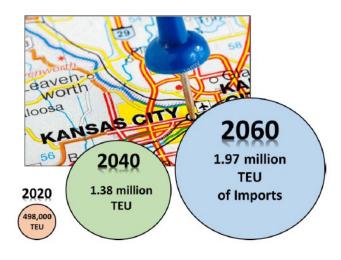


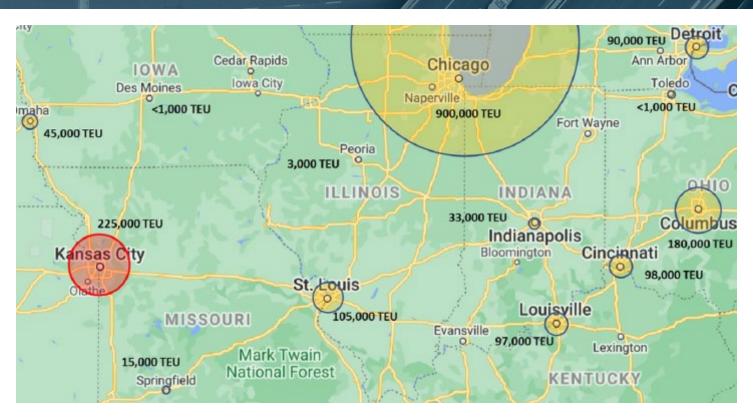
Environmental Reinvestment

Less Human Exposure

THE MARKET NEED

- U.S. Freight Needs
- Increase in TEUs
 - Twenty-Foot Equivalent Unit (TEU)
- KC Global Logistics Center





	2018	2020	2030	2040
Inbound Intermodal TEUs	310,000	390,000	500,000	625,000
Outbound Intermodal TEUs	417,710	542,050	677,210	1,365,390
Total Intermodal TEUs	727,710	932,050	1,177,210	1,990,390

Source: TranSystems Freight Study, 2019

THEFUTURE

State of the Art Vessels – American Patriot Holdings

Speed

- Upriver speeds of 13 MPH
- vs 4-5 MPH against head current

Cargo Payload

• 2500 TEU's vs. 300 (today's COB)

Safety & Environmentally Friendly

- Marine vs truck/rail, emissions reduction
- (no wake, low emissions, no hydraulics on deck)

Cargo Flexibility

• dry, refrigerated, agricultural, chemical, manufactured

Propulsion

- Azipod Propulsion
- Parallel docking / undocking without assist tugs
- Ability to turn in own length



BUILDING THE MISSOURI RIVER TERMINAL

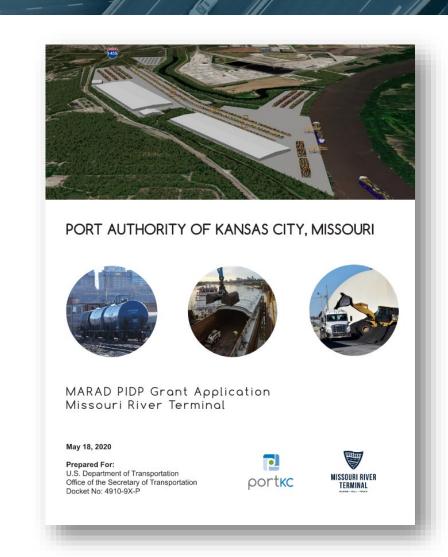
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-Missouri Governor Michael Parson



Funding

- February 2018 Port KC acquires Site
- July 2018 Public/Private Partnership (P3)
- October 2020 Port Infrastructure
 Development Program (PIDP) Planning Grant from MARAD for \$1 million
- May 2023 Port KC secures \$30M State funding



Maritime Operations

- Make KC Multimodal
- Future Capacity

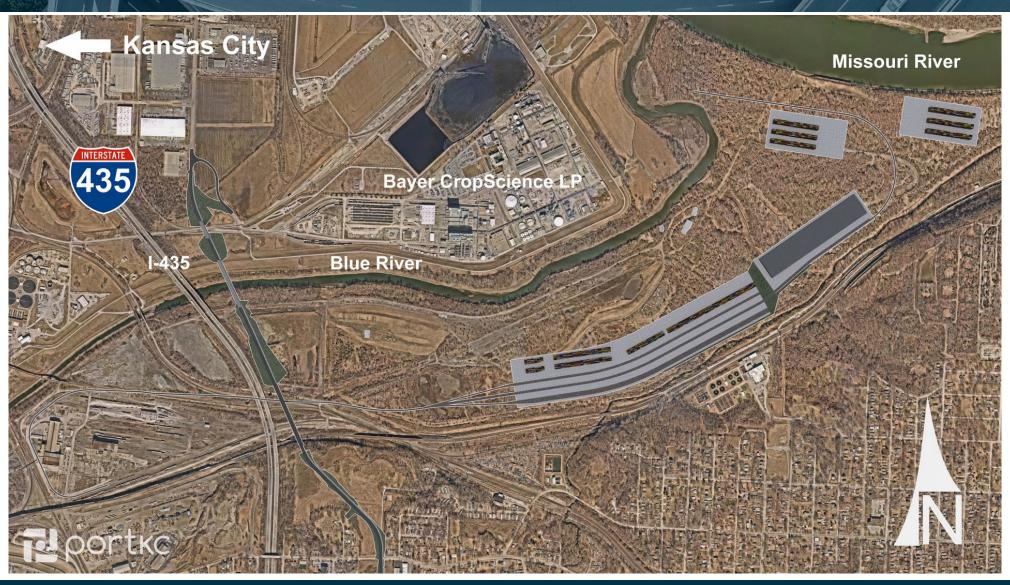
Rail Operations

Connections to America

Truck Operations

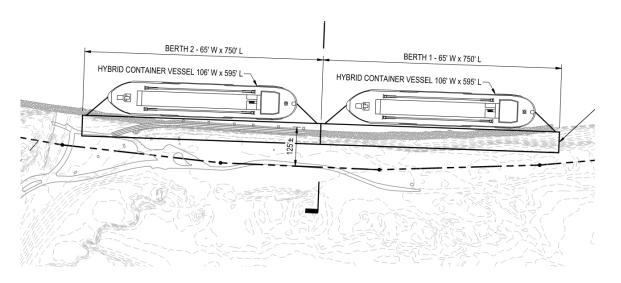
- Phase 1
- Access to Site





Marine Port Terminal

- Inland Container Vessels
- Dock Operations
 - Existing Dock
 - Proposed Dock
- Operations North of St. Louis







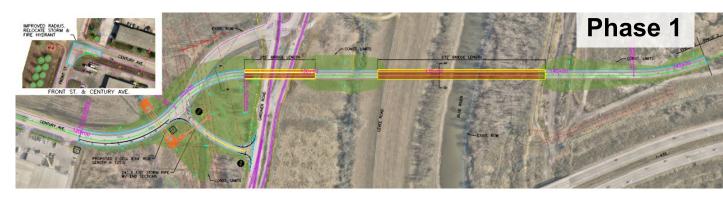
Rail Operations

- Direct access to five Class 1
 Rail Roads
- Connections through US,
 Canada, and Mexico
- US East to West Coasts
- KC is the 2nd Largest Rail Hub in the US (second to Chicago)



Truck Operations

- Necessary Step 1
- Phase 1
 - Make a Connection to the Site
 - Currently in a PDB
 - Short-Term
- Phase 2
 - Connection south to Winner Road
 - Long-Term
 - North/South Connector
 - Two-Interchange Access Points
 - Community Need





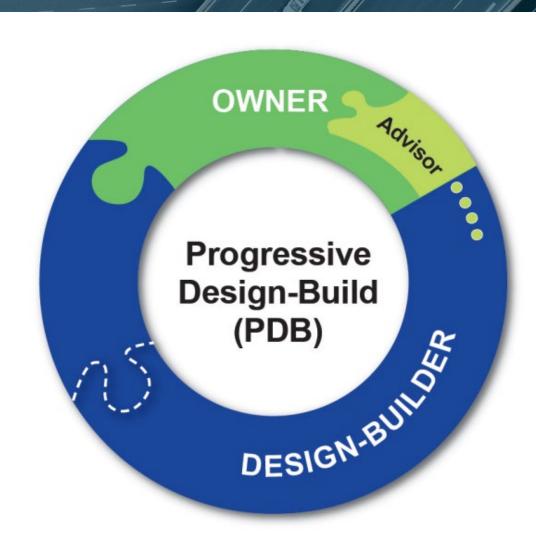
- Progressive Design Build (PDB)
- What is it?
 - Project delivery method that provides collaboration and flexibility
 - More Owner involvement during early stages
 - Two-Stage Process
 - Pre-Construction & Construction

Pro

- Faster Delivery
- Flexibility
- Cost Management
- Risk Registry (early)

Cons

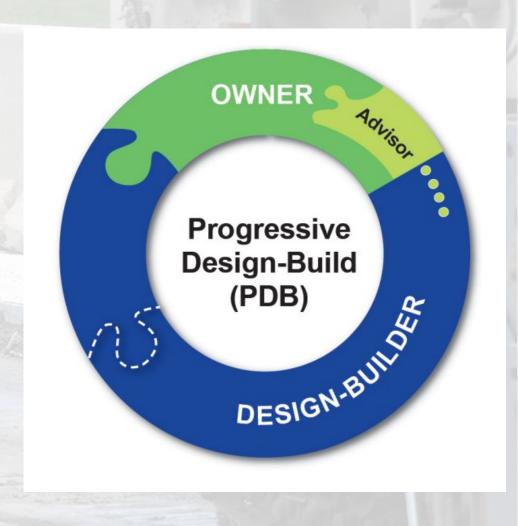
- Complexity
- Upfront Investment
- Its NEW!



Progressive Design Build (PDB)

ASPECT	DESIGN-BUILD	PROGRESSIVE DB		
Team Selection	Cost & Qualifications	Qualification & Trust (QBS)		
Project Pricing	Early Determination	Finalized as "GMP" after Design		
Owner Involvement	Min. Input in Design	Extensive in Design		
Flexibility	Fixed & Less Adaptable	Highly Adaptable & Evolving		
Contract Contract				

- Owner: Port KC
 - Design: TranSystems
 - Independent Cost Estimator (ICE): Stanton
 - · Legal: Rouse, P.C.
- Design-Builder: Clarkson Construction
 - · Designer: HDR, Inc.
 - Subs:
 - Taliaferro & Brown (DBE)
 - VSM (WBE)
 - UES
 - Leigh & O'Kane (WBE)



Where are we now? We are Here! Go Out to Bid -Ramp) Negotiate Price **RFQ** RFP Process/ Interview/ Manage Design-Build Implementation | Transition Operations with Design-Builde **Short List** Selection **Process** Contract Plan Operations Design-Build Commissioning Final Design & 60%-90% Design SOQ Warranty Approach & Fee Construction & Start-Up & Price Contractual Relationship Owner Owner's Advisor Design-Builder Contract Amendment to Approve Construction Embedded Relationship

LESSONS LEARNED (ING)

- Start with a Strong Concept
- Contracts / Procurement
- Things move fast
 - Permitting
 - Resources
- Create a Relationship
 - Have a trusted team
 - Collaborate to Innovate

- Risk Management/Risk Register
- High Time Commitment
- Get ICE onboard at beginning
- · Ask!
 - PDB is new. Talk to those familiar
 - Ask during meetings
 - Listen to wise council
- Interview Process
 - Building the team / Interactions



TRANSYSTEMS



ALL-IN ALWAYS

Whether it's for our clients, or our colleagues, we're committed to delivering excellence, every time.



PASSIONATE PROBLEM SOLVERS

We're passionate about working together to find outstanding solutions for the challenges our clients and communities face.



DRIVEN TO SERVE

Service to others is at our core. We act with integrity to advance our communities, our team, our company, and our profession.