

DEPARTMENT OF HIGHER EDUCATION & WORKFORCE DEVELOPMENT

MISSOURI

Supply Chain Task Force

presented to Missouri Supply Chain Task Force Members

presented by

MFA

MO Higher Education & Workforce Development USDOT

AmerisourceBergen General Mills

May 5, 2022

Chris DeMoss MFA





National Priorities

Dr. Mardy Leathers Director, Office of Workforce Development Department of Higher Education & Workforce Development









CITIES STRONG TOGETHER













IIJA IMPLEMENTATION RESOURCES

As Governors lead on implementing the historic bipartisan Infrastructure Investment and Jobs Act (IIJA), the National Governors Association will be continuing to provide timely and actionable resources, create opportunities for Governors and their staff to convene and collaborate, and maintain relationships with critical federal, state, local, and private sector stakeholders. This page will serve as a one stop shop for information on all these efforts.

https://www.nga.org/iija-implementation-resources/





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USDOT and USDOL Partnership

Paige Shevlin USDOT







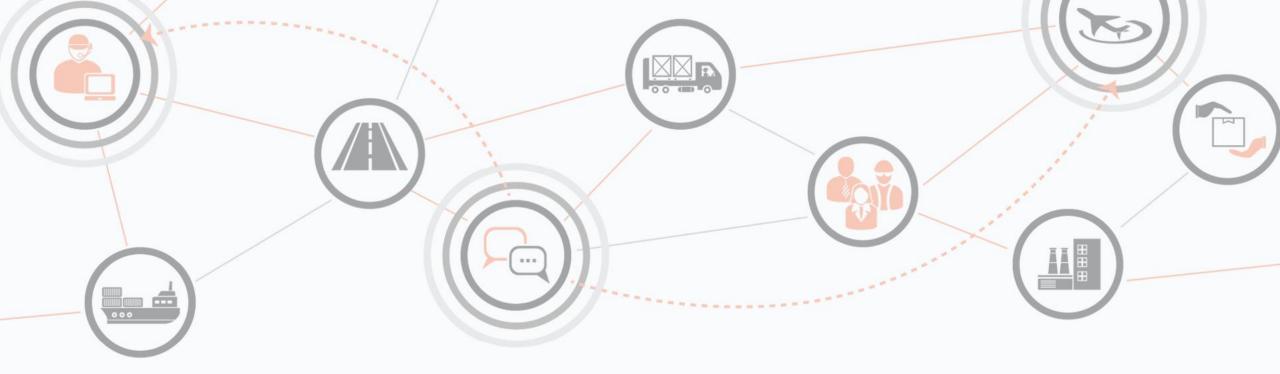


Paige Shevlin Strategic Advisor for Infrastructure Workforce Development Office of the Secretary – US Department of Transportation





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Missouri Supply Chain Task Force Meeting

AmerisourceBergen

Enhancing Supply Chain Resilience through Public-Private Partnerships

May 2022

Assessing supply chain resilience

"[Supply chain resilience is] having the ability to anticipate and resist disruption; and, when disrupted, the ability to recover and the speed at which it does." - Wayland Coker¹



Supply driven

- Manufacturing / quality issues
- Logistics challenges
- Trade issues
- Structural / market economic issues

Issues that can trigger both supply and demand-driven shortages:

Natural disasters, pandemic, bioterrorism, hostile or weak international relations

Demand driven

- Urgent, increased need for medication / supplies
- Behavioral response to perceived risk of shortage

A resilient supply chain:

- Ensures product availability and quality, even during times of emergency
- Includes transparency that is needed to predict, prevent, and rapidly respond to disruptions
- Supports **national security**, and American competitiveness and jobs
- Is not concentrated geographically or overly reliant on overseas sources of supply
- Addresses supply chain interdependencies / complexities

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Supply chain resiliency solutions



- Procurement and storage
- Perpetual inventory cycling / replenishment
- IT and financial systems



- Understanding areas of risk and anticipating challenges
- Leveraging data to gain insights that drive planning and response

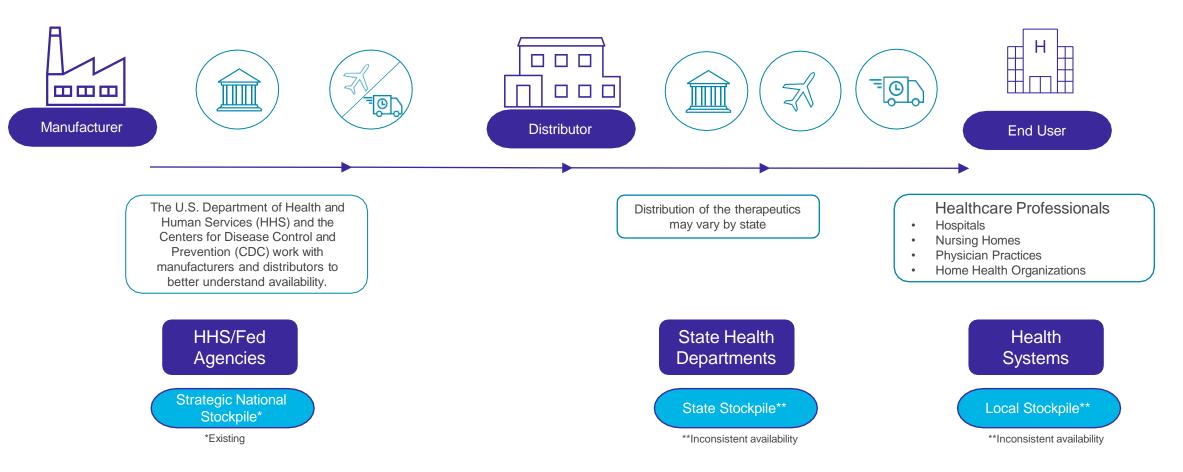


Domestic manufacturing Public/private partnerships

- Participation in U.S. government-supported manufacturing and technology innovation
- Price stability / competitiveness
- Reduce dependency through diversification

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Stockpiling at various levels provides finished products at the time when needed



- Where, if anywhere, should we hold pharmaceutical stockpiles?
- And who should pay for them?
- What is the cost of not having one?

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Transparency initiatives need to span all supply chain stages for success

Product manufacturing + downstream market insights



- Transparency discussions are often focused on the important area of product manufacturing
- A product shortage can create unintended consequences for secondary or tertiary products and can disrupt patient care even in non-emergency times
- Because of the interdependency and complexity of the supply chain network, all stages impact resiliency
- Data that is extracted from / evaluated within a broader supply chain context supports holistic response strategies

Domestic manufacturing alone does not provide all the answers





	Off-shoring	On-shoring
Cost	Ļ	1
Quality	Ļ	1
Risk	1	1
Product Availability	Ļ	1

Off-shoring offers often lower prices, subjectively differing quality, wider variety, and potentially more innovation but with higher risk and greater dependency On-shoring could increase costs and reduce affordability of pharmaceuticals as well as create even greater risk due to vulnerabilities of disruption through natural disaster or the like

Adapted from: National Academies of Sciences, Engineering, and Medicine 2022. Building Resilience into the Nation's Medical Product Supply Chains. Washington, DC: The National Academies Press. https://doi.org/10.17226/26420.

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Securing pharmaceutical supply chain resilience



Aimed to address supply or demand-driven shortages



Ensures preparedness to minimize disruptions



Provides assurance that patients will receive the care they need, at the time of need



General Mills

Stacey Giltner Human Resource Manager







Stacy Giltner Human Resources Manager General Mills, Hannibal Plant





Barriers to Employment and Government Interventions

Dr. Mardy Leathers Director, Office of Workforce Development Department of Higher Education & Workforce Developmen





Barriers to Employment







Workforce readiness

Training or certification requirements

Childcare

Cost, reliability, and supply of providers

Workforce Housing

Cost, condition and supply of housing



Transportation

Cost, reliability, and options





Workforce Readiness

- > Training / certification required
 - » Demonstrate proficiency with tools, tech, processes, regulations
 - » May take six weeks to one year to complete training programs
- In-person requirement for programs may be necessary to demonstrate skills or pass assessments
- Workforce pipeline is necessary to supply businesses with area labor pool

Common Entry-Level Certifications

Warehousing Sector	Manufacturing Sector
Certified in Production	National Career
and Inventory	Readiness Certificate
Management	(NCRC)
Certified Supply Chain	Certified Welder
Professionals	Certified Production
Forklift operator	Technician (CPT)
Commercial Driver's	Precision Sheet Metal
License (CDL)	Operator (PSMO)

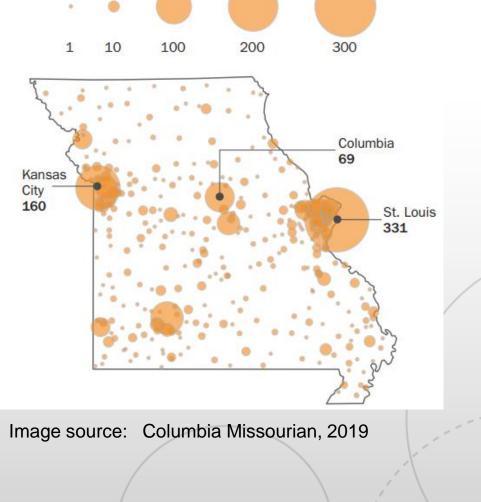




Childcare

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- > Finding affordable options
 - » Limited number of child care centers in rural areas
- > Work conflicts and risks
 - » Childcare providers often set strict rules for on-time pick-up
 - » Late shifts or other work conflicts raise the risk of losing childcare service



Number of Licensed Child Care Centers per City, 2019

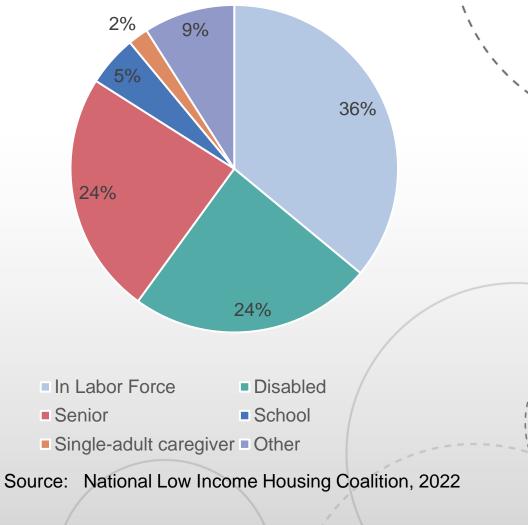
Workforce Housing

- > Supply constraints
 - » Housing often limited near industrial districts due to zoning laws, market preferences
- As of 2022, Missouri has a shortage of nearly 120,000 units for extremely lowincome renters (renters who earn less than 30% of Area Median Income)
- Poorly-maintained low-income housing can expose residents to health risks from mold, poor ventilation, etc.





Extremely Low Income Renter Households in Missouri (2022)



Transportation

Private vehicles

» Low-income HHs have lower rates of vehicle ownership and spend more on transportation than higher-income HHs

Transit service

- » Harder to provide reliable, frequent transit service in low-density industrial areas
- » Low-frequency service creates longer wait times, increases cost of missed trips for workers



Image source: OATS Transit

A 2019 analysis found that Kansas City and St. Louis rank **33rd** and **40th**, respectively, among the top-50 metro areas for number of jobs accessible within a 60-minute transit commute



Potential Government Solutions

Barrier to Employment	Solution	Benefits
Workforce Readiness	Virtual credentialing programs	Reduces travel requirements for workforce training and development programs
	Accelerated credential-to- employment programs	 Reduces time to receive credentials by counting current employment, apprenticeship hours, or prior military service towards credentialing
	Statewide credentialing standards	 Enables workers and employers to focus on key credentials for skillset development
	Childcare subsidies for employees	Reduces direct costs of childcare for workers
Childcare	Childcare expenditure tax credits for businesses	 Reduces tax burden for businesses that provide childcare subsidies to employees
	Incentives for on-site childcare provision	Reduces need for low-income workers to complete multiple trips in order to access childcare and work



Potential Government Solutions

Barrier to Employment	Solution	Benefits
Affordable Housing	Expanded housing subsidies	Reduces housing costs for low-income workers
	Affordable housing requirements for new developments	 Increases affordable housing supply by requiring developers to set aside a portion of new housing units as affordable
	Zoning reform	 Increases affordable housing supply by increasing the amount, size, and/or type of housing that can be built
Transportation	Dedicated on-demand transit for employment centers	 Improves responsiveness of transit in low-density areas
	Subsidized trips on rideshare vehicles (Uber, Lyft, taxis, etc.)	 Leverages TNC platforms for scheduling, booking, and payment
	Funding agreements with employment centers	Reduces costs for transit providersCreates stability in funding sources

Questions?



