BRINGING MANUFACTURING BACK TO AMERICA

In the past decade (2010 - 2020), more than

1,000,000 jobs were reshored back to the U.S.¹

Where We Were Before the Pandemic





Lean supply chain performance: the shorter the lead time, the less stock & raw materials needed on hand.2

Note that factors are very similar for domestic companies choosing to reshore and foreign companies choosing to invest in the U.S. Slight variation is seen in some instances. For example, companies choosing to reshore place more emphasis on brand ("Made in U.S.A." image) and impact on domestic economy. Foreign Direct Investment (FDI) decisions place more emphasis on government incentives and proximity to customers.1



(includes Foreign Domestic Investment (FDI) (2010-2020)¹

Top Industries Reshoring Back to the U.S.

Transportation equipment

Computer and electronic products Electrical equipment, appliances & components

Chemicals

Plastic and rubber products Medical equipment and supplies

Apparel and textiles

Pandemic Disruption

Our Reliance on Foreign Sources

U.S. Department of Health and Human Services figures show that 95% of surgical masks and 70% of tighter-fitting respirators, such as N95 masks, are made overseas.3

According to the Federal Drug Administration (FDA),

nearly 3/4 of active ingredient manufacturing

facilities for medicines sold in the U.S. are

The pandemic affected 98% of global supply chains, according to an Everstream

survey of supply chain professionals.5





Recognition of Supply Chain Risk



spiked concerns and heightened comprehension of

➤ Moving the needle from 'cost-competitive' rationales to 'risk-competitive' rationales. Shifting to 'stakeholder capitalism' with stakeholders defined

the state.7

more broadly as shareholders, consumers, employees, and

Rethinking Supply Chains

of firms surveyed said

located in other countries.4

70%

they were likely to reshore in the coming years.

Thomas Industrial Survey March 20209

expect less focus on Just-In-Time

62%

manufacturing models.

Foley and Lardner LLP survey¹

of companies have reshored at least a portion of manufacturing

41%

supply chain risk.6

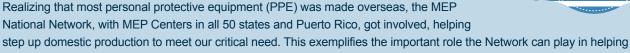
operations back to the U.S. within the past 3 years. Kearney survey, March 2021, 120 U.S. manufacturing executives 8

agreed that benefits of onshore production outweigh higher

49%

labor costs.

The MEP National Network™ Meets the Challenge During The Pandemic 10, 11



companies develop national and local supply chains, which is of vital importance to reshoring efforts.



CONNSTEP, the Connecticut Manufacturing Extension Partnership Center

its chief manufacturing officer to help facilitate the distribution.

The Alaska Manufacturing Extension Partnership Center

The Center developed a dedicated COVID-19 webpage for crucial material and resources for disaster loan and relief, labor and unemployment, workplace health and safety, and more. CONNSTEP created a separate website to match PPE manufacturers with the needs of healthcare workers and partnered with the state and

transition a number of Alaska manufacturers to convert their operations to manufacture PPE.

The Center helped match those in need of PPE with over 70 local manufacturers producing PPE, and helped



The Ohio Manufacturing Extension Partnership Center The Center worked with the Ohio Hospital Association, the Ohio Manufacturers' Association, and JobsOhio to

source and manufacture PPE. Ohio MEP coordinated an alliance with 19 manufacturers that quickly retooled to produce face shields to meet state and national demand and supported unique needs for testing booths.

Factors Accelerating Reshoring 8, 12

The Future of Reshoring

Executive Order 14005 Ensures the federal government invests taxpayer dollars in

Establishes substantial role for the Manufacturing Extension Partnership (MEP) in conducting supplier scouting to identify

products "Made in America"

domestic suppliers that are able to "produce goods, products, and materials in the United States that meet federal procurement needs."

Executive Order 14017 Assessing and strengthening the resilience of supply chains > Reviewing supply chain risk, reshoring, and developing domestic and alternative supply chains. Use of Defense Production Act to address supply of PPE, tests, and vaccines.

Calls for Reshoring from Industry



the American Iron and Steel Institute, and the American Steelworkers have called on the U.S. government to invest in domestic production of PPE.14 The American Medical Association (AMA) has called on the U.S. government to ramp up PPE production in the U.S, citing shortages.15

A coalition of 21 industry groups including the American

Organizations, The Alliance for American Manufacturing,

Federation of Labor and Congress of Industrial

The Cost-Benefit Analysis

Reshoring will require investment:

If all foreign firms, including

U.S. companies, were to

National Apprenticeship Act

apprenticeship opportunities

Could create nearly 1 million new

could face \$1 trillion in capital expenditures over a five-year period – but analysis suggests that this is supportable; the return on capital investment would only decrease slightly.7



year, an estimated \$443 billion

reshore their manufacturing operations from China for If 83% of U.S. manufacturers products "not intended for contract with only one new consumption in China," they domestic supplier in the next

is injected into the U.S. economy.15



How the MEP National Network Can Help Reshoring Efforts

In support of Executive Orders 14005 and 14017 - to focus on manufacturing in

In small practices, that number was even greater: 41%.16

America and establishing domestic suppliers – MEP Centers can help companies reshore their manufacturing operations by identifying domestic suppliers through Supplier Scouting.

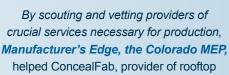
MEP National Network Supplier Scouting Success Stories



develop and produce their innovative, protective bicycle seat.17



and manufacturer of colorimetric chemical detection products - diversify beyond the defense market and grow production capacity in a new product line.18



helped ConcealFab, provider of rooftop concealment (e.g., for antennas), reduce lead times, expand its supply chain, and improve workflow.19 www.nist.gov/mep/mep-national-network



National



6/3/2020; Rebuilding and Resnoring: How Did Offsnoring Get 50 strong?, Moser, Resnoring Intel Quarter (Art 1/2020); Reinvesting in the USA: A Case Study of Resnoring and Expanding in the United States, U.S. Department of Commerce/international Frade Administration, 2019; Reshoring a Sustainability: Beyond the Horizon, Reshoring Institute, 2/26/2020; Reshoring a State and Report Supply Chains to generate good jobs, Fish and Spillane, Brookings Metropolitan Policy Program, July 2020; Reshoring a Kentering Opportunities For North American Manufacturers, Hanno, Thomas, 8/20/2020; Strategic Reshoring: A Literature Review, Bolter and Robey, W.E. Upjohn Institute, 2020; Supply chains do the math on reshoring's pros and cons, Kaplan, Supply Chain Dive, 4/8/2021; The Resilient Economy: Integrating Competitiveness and Security, Transform 2020, Council on Competitiveness; Updated employment multipliers for the U.S. Economy, Bivens, Economic Policy Institute, 1/23/19