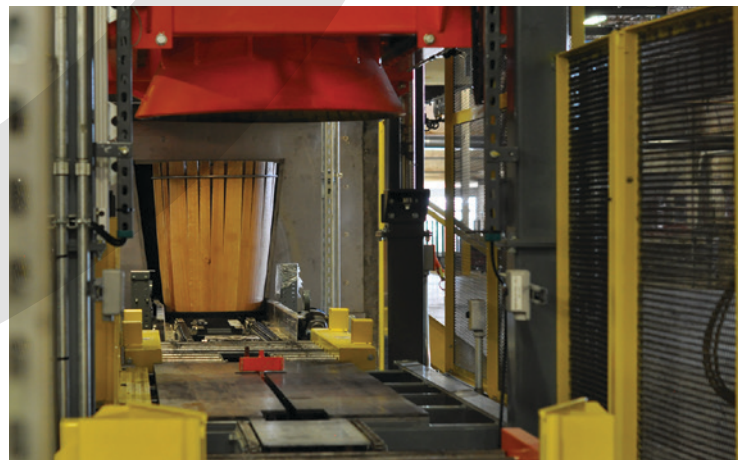
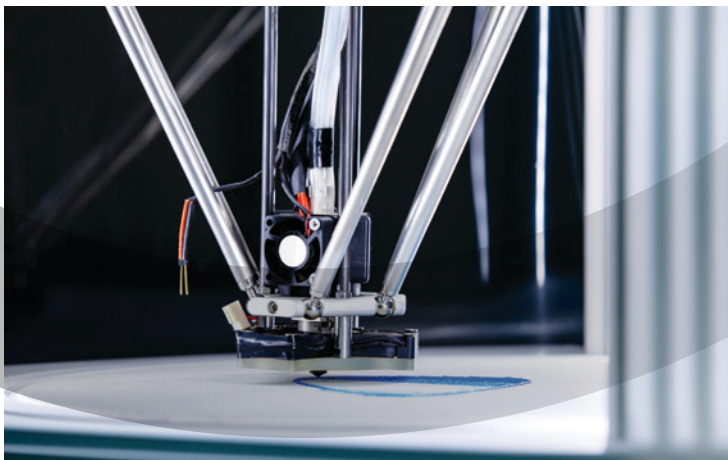


MANUFACTURING NEXT GENERATION **INNOVATION IN OHIO**



Ohio

THE COMPLETE END-TO-END SOLUTION FOR ADVANCED MANUFACTURING SUCCESS

For advanced manufacturing companies seeking a U.S. location to establish or expand operations, Ohio holds the key. With unparalleled innovation and R&D, a skilled talent pool and easy market access, Ohio offers today's industry leaders the advanced ecosystem necessary to increase efficiencies and cultivate long-term growth. In fact, many of today's industry leaders already operate in the state, enjoying an integrated logistics infrastructure and a central location that puts them in close proximity to raw materials and North American customer markets.

Through strategic business consultation, JobsOhio partners with companies to help them access and leverage these valuable resources to support their growth and continued success.

Ohio is at the forefront of advanced manufacturing.
Come join us.



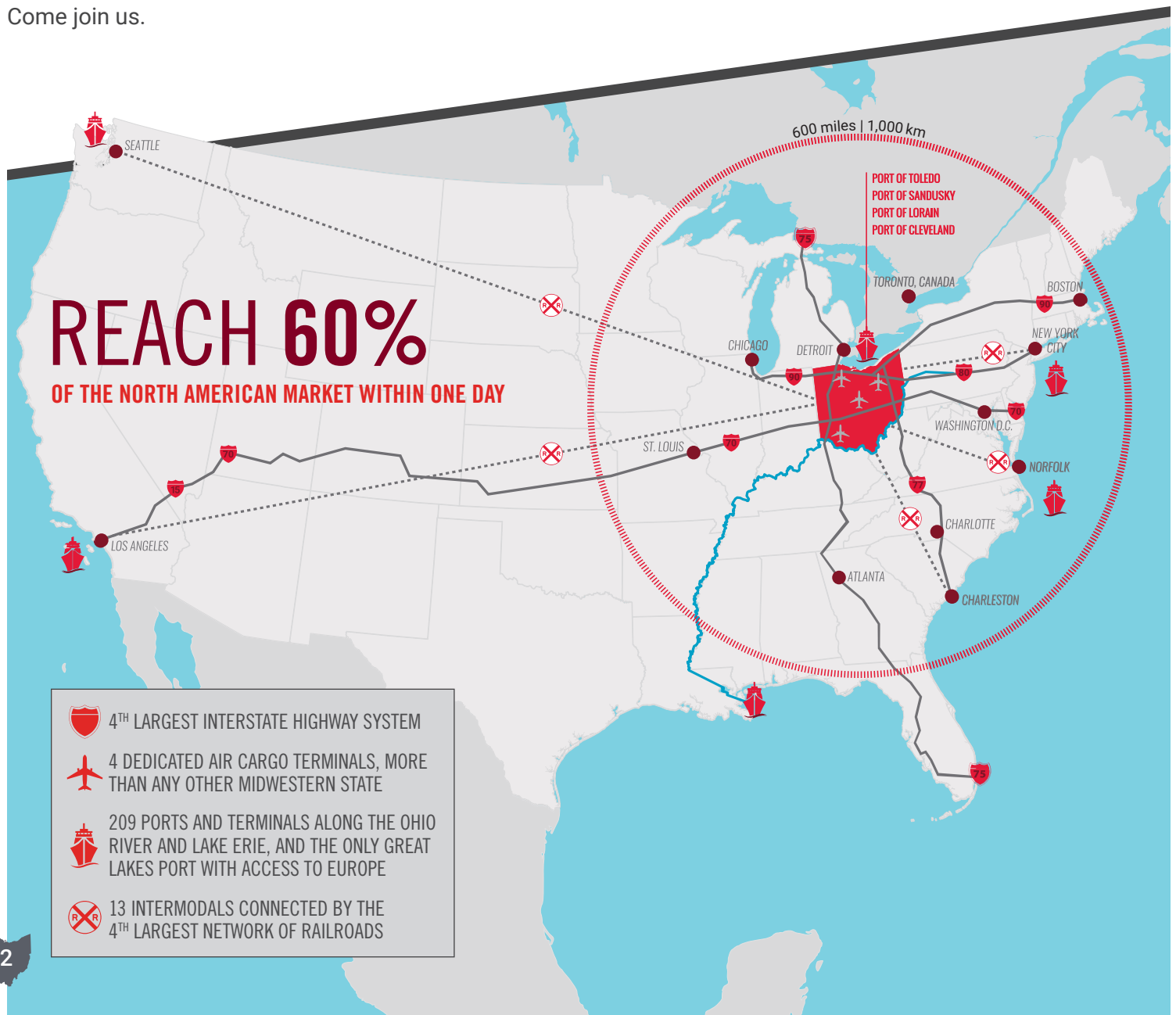
INNOVATION



TALENT



MARKET ACCESS



SUPPORTING NEXT GENERATION INNOVATION

Ohio is a global leader in advancing next generation manufacturing via the collaborative support of a comprehensive and connected innovation ecosystem. Companies in Ohio invest in research and development, creating invaluable assets in the application of the transformative technologies driving today's manufacturing growth. And through universities, incubators and research organizations, Ohio is propelling next generation innovations today.

OHIO MANUFACTURING EXTENSION PARTNERSHIP (MEP) NETWORK

The Ohio MEP network provides products, services and assistance dedicated to the productivity, growth and global competitiveness of Ohio manufacturers. Through our collaborative efforts, we are ensuring the state's industrial base prospers in the 21st century global economy.



**Manufacturing
Extension Partnership**



\$108 BILLION
IN MANUFACTURING OUTPUT
NEARLY 18% OF OHIO'S GSP

\$10 BILLION+
ANNUAL SPENDING
ON SCIENCE AND
ENGINEERING

10,000+
ENGINEERS AND
ENGINEER TECH GRADUATES YEARLY

**3RD LARGEST MANUFACTURING
WORKFORCE
IN U.S.**

**#2 AUTOMOTIVE F&E
MANUFACTURER
IN U.S.**

**#1 SUPPLIER
BOEING AND AIRBUS**

SUPPORTING NEXT GENERATION INNOVATION

Ohio is a global leader in advancing next generation manufacturing via the collaborative support of a comprehensive and connected innovation ecosystem.

MANUFACTURING USA INSTITUTES

Ohio's manufacturers can take advantage of four Manufacturing USA institutes to gain a competitive advantage in additive manufacturing, advanced composites, lightweight materials and flexible electronics.



A SELECTION OF INNOVATIVE PARTNERS

Ohio provides companies a statewide environment that's positioned for success, continually investing in an extensive innovation ecosystem comprised of industry-leading companies, academic centers and federal institutions. Access to these resources facilitates collaborative opportunities for product development, talent sourcing and capital funding – allowing companies to get to market faster.



NASA GLENN

NASA Glenn is responsible for developing some of the world's most advanced technologies, including aerospace systems and materials and manufacturing sensors. Its scientists and engineers pave the way in both aviation and science exploration, ensuring Ohio maintains a leading role in manufacturing.



WRIGHT-PATTERSON AIR FORCE RESEARCH LAB

The Wright-Patterson Air Force Research Lab employs approximately 10,000 military and civilian personnel and includes both Air Force and customer-funded research and development. Wright-Patterson manages a \$4.4 billion science and technology program annual budget, including basic research, applied research and advanced technology development in air, space and cyber.



UNIVERSITY of CINCINNATI
RESEARCH INSTITUTE

UNIVERSITY OF CINCINNATI RESEARCH INSTITUTE (UCRI)

UCRI strengthens academic-industry partnerships through collaborative engagement in a wide range of engineering services that span advanced technology, consulting expertise, state-of-the-art testing and groundbreaking research.



BATTELLE LABS

Founded on the vision that business and scientific interests can go hand-in-hand for positive change, Battelle has the leading network of laboratories responsible for conducting research that spans the industrial, pharmaceutical, health, energy and environmental industries.



UNIVERSITY OF DAYTON RESEARCH INSTITUTE

The University of Dayton Research Institute's 400+ full-time staff specialize in research, development, application and transition of technology in diverse fields, including materials, structures, energy, propulsion, manufacturing, sensors and intelligence. UDRI's materials research effort is the third largest in the nation among universities, and its engineering research ranks second in Ohio.



UNIVERSITY OF AKRON, POLYMER INSTITUTE

The College of Polymer Science and Engineering includes the Global Polymer Academy headquarters, specialized labs for all categories of polymer synthesis; advanced labs for coatings, compounding, extrusion and other processes; specialized processing equipment; and a training center for classrooms, processing labs and workforce training programs.

THE TALENT TO TRANSFORM YOUR BUSINESS

Established academic-industry partnerships and solution-finding collaborative communities make Ohio an attractive location for manufacturing companies looking to connect with the third largest manufacturing labor force in the U.S. In Ohio, companies have access to a talent pool of more than 690,000 manufacturing workers and an established industry pipeline graduating more than 10,000 engineers and engineering technicians from the state's 80 college and university campuses with engineering programs.

Companies benefit from access to skilled talent, with an average manufacturing wage that is approximately 5 percent lower than the U.S. average. The state's talent pool is also known for its Midwestern work ethic which contributes to improved productivity and efficiency, helping your company ramp up quickly and manage long-term talent needs.

Ohio's robust talent pool ensures manufacturing companies have access to skilled employees educated at some of the world's best colleges and universities, including:



690,000
STRONG
MANUFACTURING
WORKFORCE

80
CAMPUSES
ACROSS 27 OHIO
UNIVERSITIES
HAVE ENGINEERING
PROGRAMS

5%
LOWER
MANUFACTURING
WAGE THAN U.S.
AVERAGE

**MORE
MILLENNIALS***
↑ 11.56%
PER YEAR
SINCE 2006

*Millennials - portion of the population born between 1982 and 2000.

BRAZILIAN MANUFACTURER CREDITS OHIO'S INFRASTRUCTURE WITH DECISION TO LAUNCH IN FINDLAY

The events of Jan. 30, 2015, remain etched in Steve Shiparski's mind. That was the day Dow Chemical closed its packaging films plant after more than 50 years in Findlay.

"We all walked off the site, they shut the door and it was no longer Dow Chemical," remembers Shiparski, part of the plant's leadership team at the time.

But Shiparski also vividly remembers what happened two days later.

"A majority of us returned to the site and turned the lights back on," he says. "Valfilm was open for business in Findlay, Ohio."

The transition from Dow to Valfilm USA, a subsidiary of Brazilian company Valgroup, can be credited to a collaboration between the two companies and a partnership among JobsOhio, Regional Growth Partnership and Findlay-Hancock County Economic Development, which worked together to facilitate the purchase of the plant. As a result, some 55 Dow employees – most of the 72 formerly employed there – transitioned smoothly to Valfilm. An additional 80 jobs were created by Valgroup's \$9.5 million investment in the plant.

Dow's decision to close the plant opened a door for Valgroup, which manufactures polyolefin films similar to those produced by Dow. In fact, it was Dow that reached out to Valfilm about purchasing the plant when Dow decided to close. Valgroup – one of Dow's largest customers – was already looking for an opportunity to open a plant in the United States.

"We were looking for the last 10 years to come to the United States," explains Tiago Geronimi, director of Valfilm USA, "but we weren't sure how to start from zero. This was a great opportunity for us. And people from Ohio helped us a lot with the transition and to close the deal." Valgroup originally had planned to base its U.S. operations in the Carolinas or Texas. But the benefits of Ohio's infrastructure were too valuable to ignore, Valgroup CEO Carlo Bergamaschi remembers.

"We found out that the big customer market is here, and that we could be serviced by rail," Bergamaschi explains. "So actually, we found that logistically it made sense."

According to Geronimi, additional advantages included nearby colleges and the support of the thriving plastics industry in Ohio. "It was a prime location for us to continue to grow."

Not only has Valfilm's move to Findlay helped create jobs, the company plans to add more by doubling its workforce in the future. For the city and its residents, additional jobs are the biggest benefit of all.

Shiparski, now operations manager for Valfilm, remembers the sting Dow employees felt at the prospect of losing their jobs and leaving a solid company like Dow. "That building has housed a lot of people's growth in their own careers," he says.

The transition to Valfilm employment, however, has shown those employees that Valfilm values them just as Dow did, Shiparski says. Not only did Valfilm welcome its new employees, the company encouraged them to actively help build the new company from the ground up.

"The fear turned into excitement about being entrepreneurial," he says. "It's been an exciting journey thus far, and it's only been two years."



4TH

LARGEST STATE IN U.S. BY
MANUFACTURING OUTPUT



55

FORTUNE 1000 COMPANIES



1,800+

PLASTICS AND RUBBER INDUSTRY
ESTABLISHMENTS
IN OHIO



GROW IN A STABLE BUSINESS ENVIRONMENT

In Ohio, companies profit from a common sense regulatory climate built upon favorable tax rates and low-cost energy that provides predictability and stability. Simplified compliance coupled with access to the business-savvy economic development partner, JobsOhio, help companies to access, navigate and prosper from the state's competitive business environment.

NO TAX ON:

- Corporate profits
- Inventory
- Property
- Machinery and equipment
- Research and development

LOWEST TAXES IN THE MIDWEST FOR CAPITAL-INTENSIVE MANUFACTURING



OHIO



MICHIGAN



INDIANA



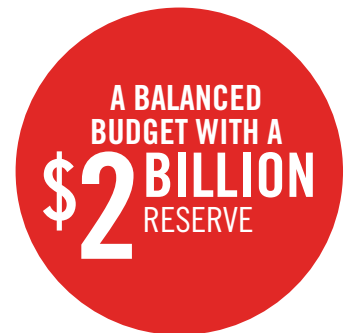
KENTUCKY



PENNSYLVANIA



ILLINOIS



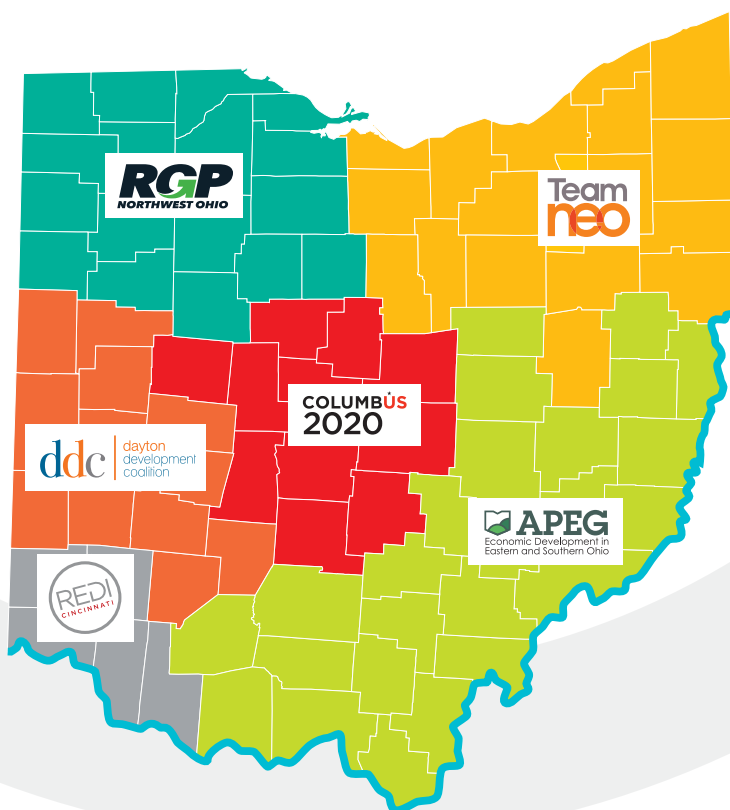
ABOUT JOBSONHIO

Companies expanding or locating in Ohio can collaborate with partners committed to helping businesses achieve successful growth and strategic development. JobsOhio is the economic development company for the state of Ohio designed to assist companies in choosing the right location. With our six Regional Network partners, your JobsOhio team will provide free services including:

- Talent acquisition support
- Site selection assistance
- Customized incentive programs
- Industry introductions

One Firm, One State

JobsOhio and its Regional Network build momentum for economic development throughout Ohio, leading to increased industry diversity, job opportunities and capital investment.



**Contact JobsOhio
today to learn how the
advanced manufacturing
sector in Ohio can
support your growth
objectives.**

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