



Columbus Region Growth Update

April 19, 2023

THE
COLUMBUS
REGION

What is Economic Development?



ECONOMIC DEVELOPMENT is the expansion of capacities that contribute to the advancement of society through the realization of individual, firm and community potential.

Economic Development is measured by a sustained increase in **prosperity** and quality of life through innovation, lowered transaction costs, and the utilization of capabilities towards the responsible production and diffusion of goods and services.

Economic Development requires effective institutions grounded in norms of openness, tolerance for risk, appreciation for diversity, and confidence in the realization of mutual gain for the public and the private sector. Economic Development is essential to creating the conditions for economic growth and ensuring our economic future.

U.S. ECONOMIC DEVELOPMENT ADMINISTRATION

Business Retention & Expansion

- Engage with the most competitive businesses in the world to build relationships and learn about their growth
- Proactively recruit expanding businesses to the Columbus Region
- Use data to predict future needs of the region

Business Development

- Engage with our core companies in the Region
- Analyze and constantly monitor target industry needs, threats
- Connect with businesses in the workforce, government, and private resources to help them grow
- Build collaborative networks to help the companies network and learn from each other

Preparing Communities To Win

- Engage directly with local communities to understand their changing demographics and needs of their major employers
- Encourage and share inclusive workforce and economic development practices

One Columbus Overview



Economic Development in Ohio

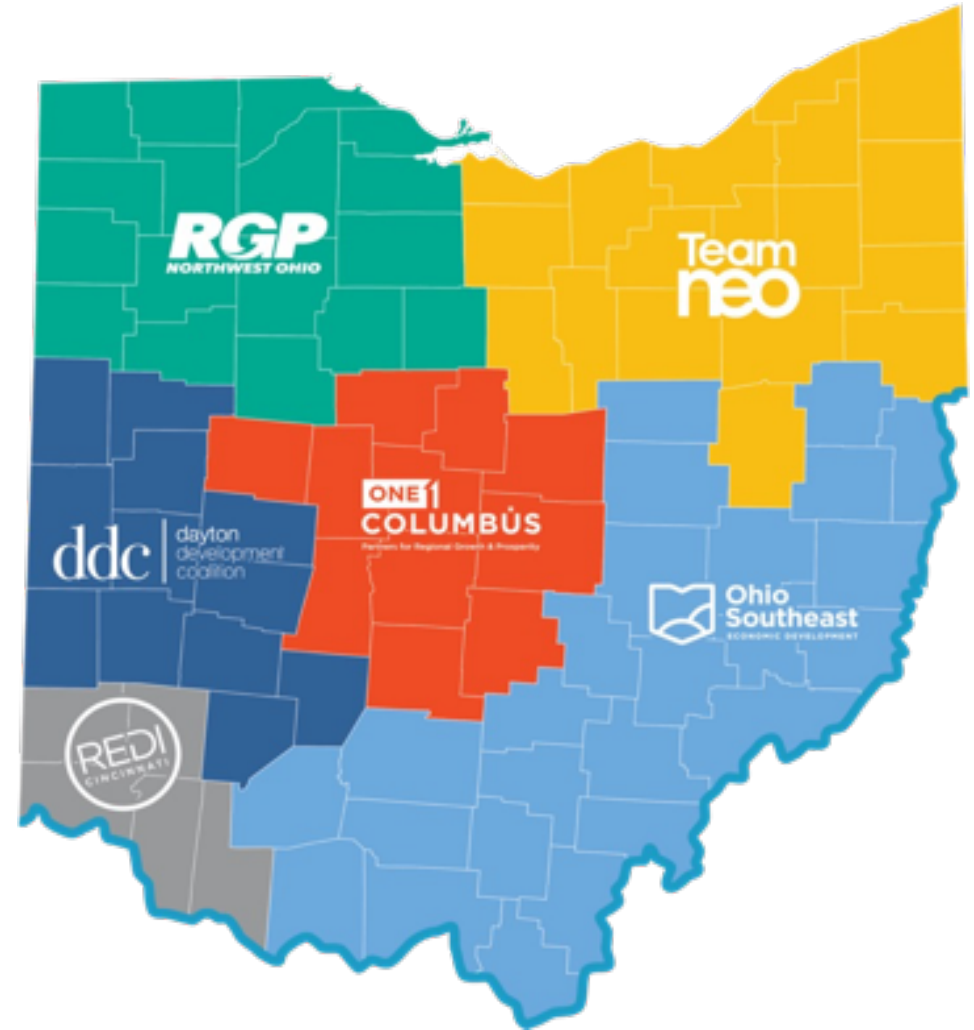


JobsOhio

Ohio's unique private economic development corporation, founded 12 years ago. Built with private stable financial resources, seasoned professionals with private sector expertise, and a long-term investment outlook

JobsOhio Regional Network Partners

Six regional economic development partners. Each region's unique strengths, perspective, and experience come together to strategically serve companies in Ohio.



ONE COLUMBUS VISION: To become the most prosperous region in the United States.

WHY IS THIS A BOLD IDEA AND AMBITION?

Zero of 200 metro areas in the United States have:

- Grown their regional economy
- Raised the standard of living across their entire region, *and*
- Closed meaningful economic/racial disparities **in the past several decades**.

This is especially true in tech-centers, which is what Columbus is aspiring to be.

HOW DO YOU MEASURE OR MONITOR PROGRESS AND “PROSPERITY”?

- **Standard measures of economic growth and vitality** (jobs, capital investment, venture capital attracted, payroll, tax base).
- **Measures of standard of living** (housing affordability, median wages, commute times and transit opportunities).
- **Measures of economic mobility** (wealth creation, wage growth, degree attainment, business and home ownership).



Our 2023 Top Line Goals

6,400
JOBS

\$1.5B
CAP X

\$350M
PAYROLL

Regional Profile



The Columbus Region

A HIGH-PERFORMANCE REGIONAL ECONOMY IN THE HEARTLAND

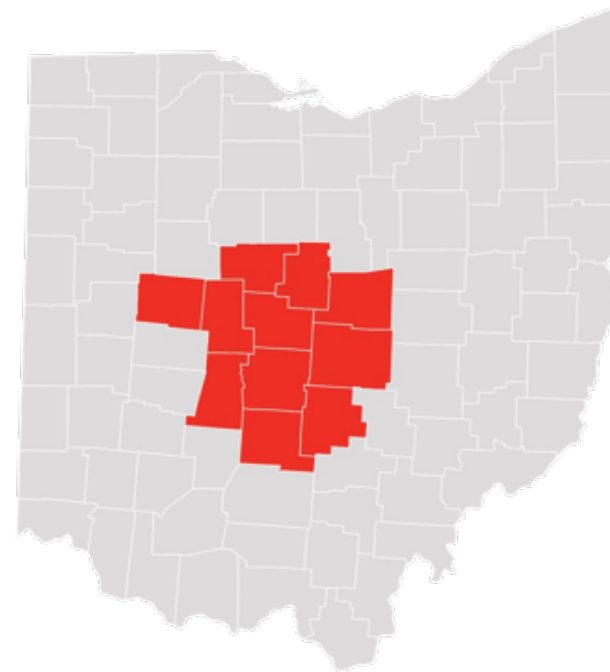
The Columbus Region is a dynamic 11-county area in Ohio amidst unprecedented economic growth.

2.25 million Total population

No. 1 in the Midwest for population growth

No. 1 in the Midwest for job growth

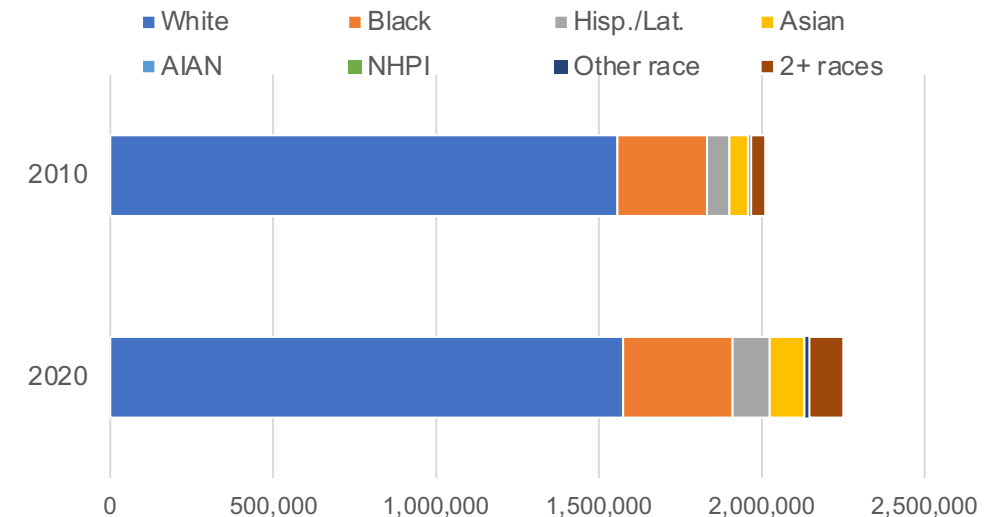
No. 1 in the Midwest for GDP growth



Growing and Diversifying

Columbus is the only city in the Midwest to add >100,000 people in the past decade.

92% of the Columbus Region's population growth was from non-white only groups.



Source: U.S. Census Bureau, 2010 and 2020 decennial census.

Top Metro for Young Professionals

Columbus is among the top 10 metros in the United States for concentration of young professionals (age 25-34) and is the only metro with this distinction located in the eastern half of the country.

Top large metros for net positive inbound migration into the Columbus Region:

- New York
- Cleveland
- Philadelphia
- Washington D.C.
- Chicago
- Cincinnati
- Los Angeles
- Boston
- Pittsburgh
- San Diego



Among U.S. metro areas with a population over 1 million, Columbus ranks:

No. 1

in the Midwest for
millennial migration

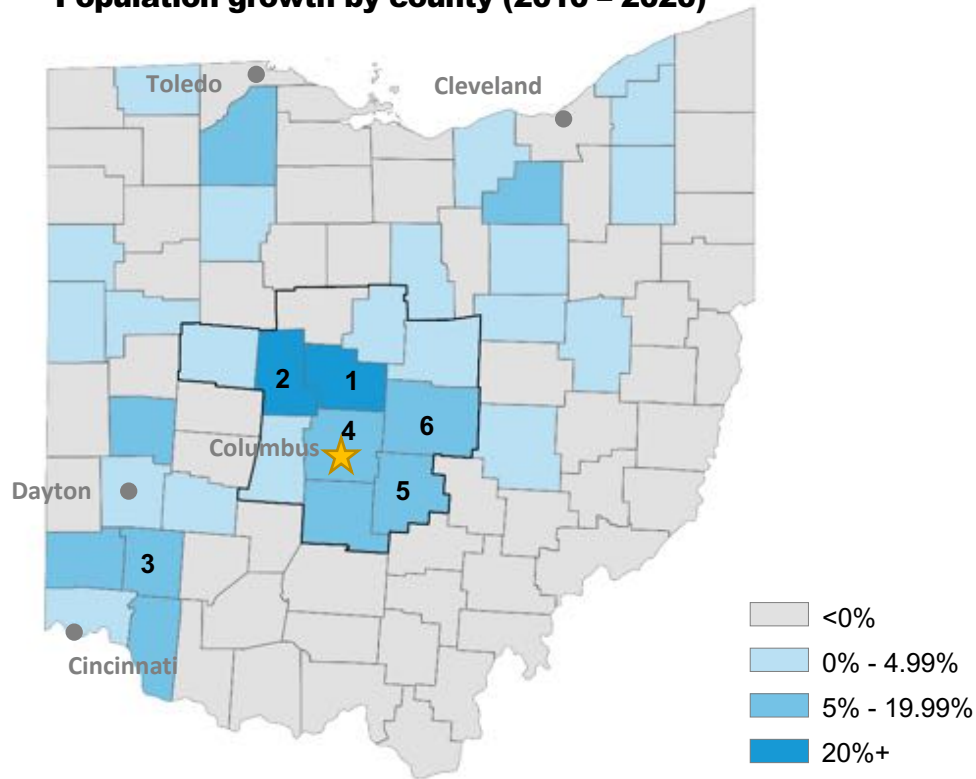
No. 12

in the U.S. for
millennial migration

Leading Growth in Ohio

The Columbus Region represented 91% of the state's growth over the last decade, with five of the state's fastest-growing counties located here.

Population growth by county (2010 – 2020)



Ohio's fastest growing counties

#1	Delaware	22.9%
#2	Union	20.1%
#3	Warren	13.9%
#4	Franklin	13.8%
#5	Fairfield	8.7%
#6	Licking	7.2%

Source: U.S. Census Bureau, , Decennial Census, 2010-2020

Higher Education

BUILD A TALENT PIPELINE

50+

College campuses

130,000

Students enrolled

22,000

Annual graduates



DENISON



OHIO CHRISTIAN
UNIVERSITY

Capital
University



Kenyon College

Ohio
Wesleyan
University

MOUNT VERNON
NAZARENE UNIVERSITY



THE OHIO STATE
UNIVERSITY IS ONE OF THE
**WORLD'S MOST
COMPREHENSIVE PUBLIC
RESEARCH UNIVERSITIES**

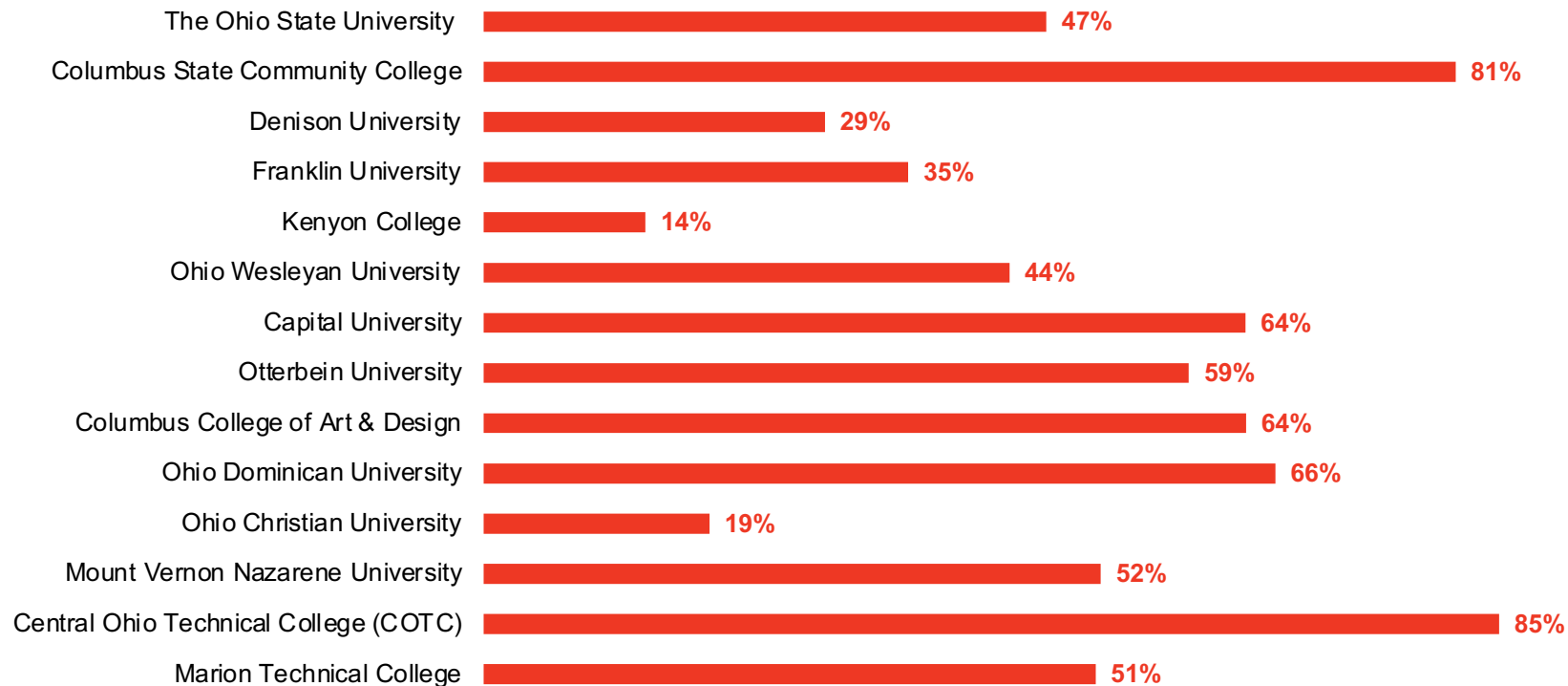
The Ohio State University has a total enrollment of more than 65,000 students, including 5,800+ foreign students, 2,300+ in computer science

College Graduate Retention

The Columbus Region retains nearly 50% of graduates from The Ohio State University, one of the largest universities in the U.S

Percent of recent graduates in the Columbus area

Profile selection criteria: finished school in 2020 or 2021, <2 years of work experience



Source: LinkedIn, October 2022 analysis based on profiles with school finished in 2020 or 2021 and less than 2 years work experience.

The World's Major Players

The Columbus Region is home to 16 fortune 1000 headquarters and has a diverse economy where no major industry sector represents more than 17% of employment.

FORTUNE 500 HQ



NOTABLE HQ

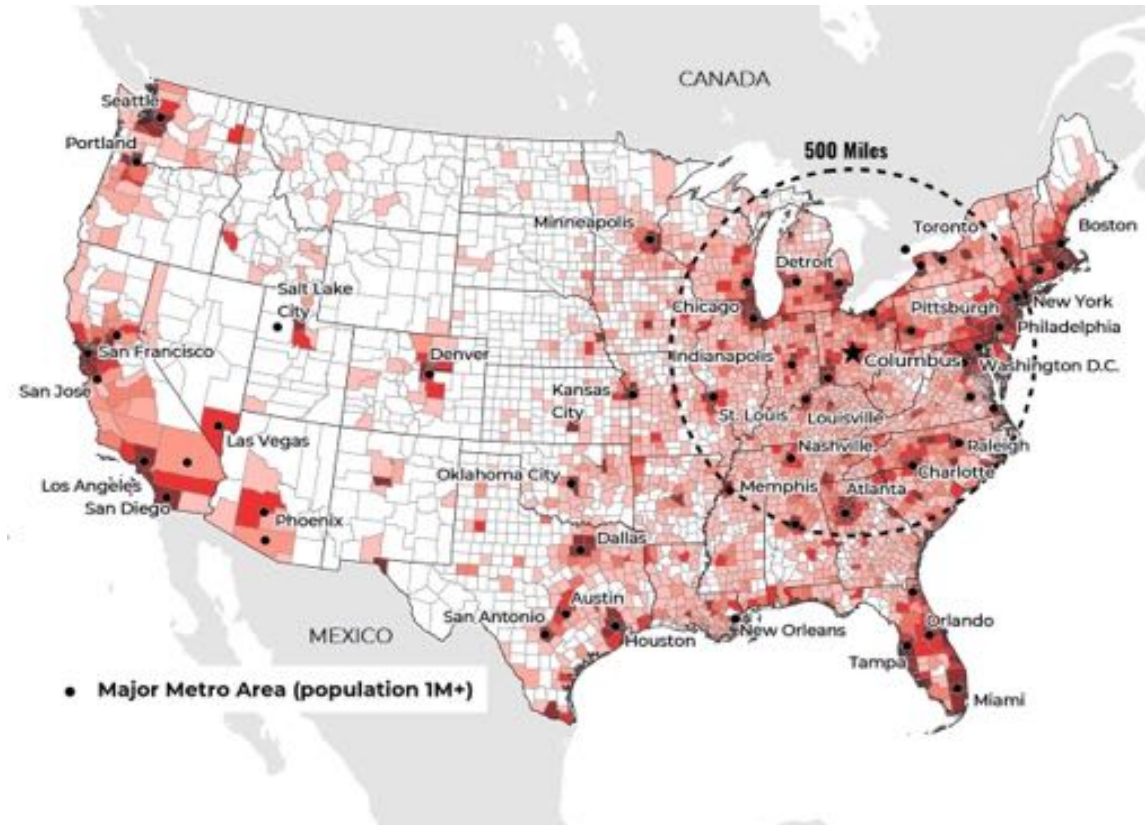


MAJOR OPERATIONS



Unmatched Market Access

The Columbus Region's geographic location gives companies access to more of the U.S. Population and employment base than any other major metro.



45%

U.S. Population
and manufacturers

48%

U.S. Headquarters

METRO	10-HOUR DRIVE POPULATION	% OF U.S. POPULATION
Columbus	149,939,360	45%
Indianapolis	128,480,626	38%
Detroit	110,741,409	33%
Atlanta	98,816,246	30%
New York	92,174,742	28%
Minneapolis	48,263,719	14%
Phoenix	39,678,331	12%
Salt Lake City	25,787,578	8%

Sources: ESRI Business Analyst, 2021.

Experience Columbus



Columbus Crew



Easton Town Center



Nationwide Children's Hospital Columbus Marathon



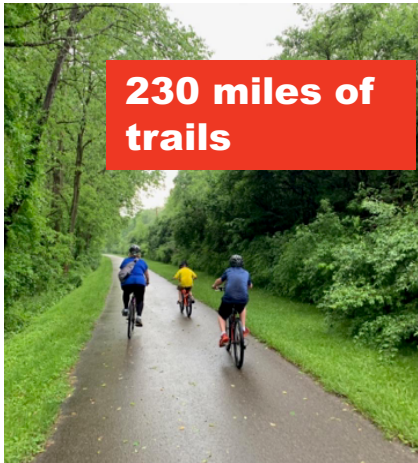
Ohio State Buckeyes



400+ Parks

20 Metro Parks

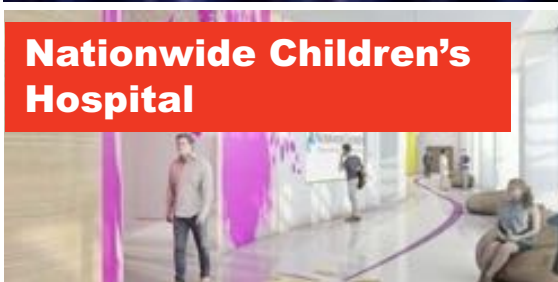
7 State Parks



230 miles of trails



BalletMet



Nationwide Children's Hospital



Columbus Pride Parade



COSI



Pelotonia



Columbus Zoo

2022 Results and Current Pipeline



2022 Project Announcements

ANNUAL GOAL	6,000 JOBS COMMITTED	\$1B CAPITAL INVESTMENT	\$330M NEW PAYROLL CREATED	
FINAL TOTAL	52 EXPANSIONS AND NEW LOCATIONS	5,373 NEW JOBS COMMITTED	\$1.2B CAPITAL INVESTMENT	\$401M NEW PAYROLL CREATED
FINAL TOTAL WITH INTEL	53 EXPANSIONS AND NEW LOCATIONS	8,385 NEW JOBS COMMITTED	\$21.2B CAPITAL INVESTMENT	\$807M NEW PAYROLL CREATED

Companies Investing in Columbus

RECENT BUSINESS EXPANSIONS AND NEW LOCATIONS

Results in 2022:

53

Company announcements

8,385

New jobs committed

\$21.2 billion

Fixed investment

NOTABLE PROJECTS

intel

Location: New Albany
Type: Attraction
Jobs committed: 3,000
Industry: Semiconductors
Project Operations: Manufacturing
Headquarters: Santa Clara, CA

amplifybio

Location: New Albany
Type: Expansion
Jobs committed: 263
Industry: Healthcare, Biotech
Project Operations: R&D
Headquarters: West Jefferson, OH

bjss

Location: Franklin County
Type: Attraction
Jobs Committed: 50
Industry: Information Services and Software
Project Operations: Office
Headquarters: United Kingdom

HYPERION

H Y P E R I O N

Location: Columbus
Type: Attraction
Jobs Committed: 650
Industry: Automotive
Project Operations: Manufacturing
Headquarters: Columbus, OH

BBI LOGISTICS



BEHR

Upstart

**SIMPSON
Strong-Tie**



**pluto
healthcare staffing**

AMGEN



PHARMAVITE

Orveon

VELOCYS

Kroger

Walgreens



VERTIV

Hollingsworth

Olive

Highlights

MAGNA

**FORSEE
POWER**

**G&J
pepsi**



**SAREPTA
THERAPEUTICS**

ORTAL
YOUR LIFE. YOUR FIRE.

EASE

**MONITORED
THERAPEUTICS INC**

ADS
Advanced Drainage Systems, Inc.

Source: One Columbus. Results as of December 31, 2022. One Columbus project announcements; does not encompass all market activity.

Ohio Rising

JOB SOHIO REGIONAL PARTNERS

EV Drive Systems
\$760M Investment



EV Battery Components
1,200 New Jobs
\$916M Investment



EV Batteries
2,200 New Jobs
\$3.5B Investment

Expansion – Freight Forwarder
1,000 New Jobs



Expansion - EV Production
1800 New Jobs
\$1.5B Investment



Expansion – Lab Services
500 New Jobs
\$212M Investment



HQ & Manufacturing
650 New Jobs
\$225M Investment



Semiconductor Production
3000 New Jobs
\$20B Investment

Auto and Semiconductor Locations (2021-2022)



EV Production
1400 New Jobs
\$800M Investment



EV Battery Production
1400 New Jobs
\$2.5B Investment



EV Batteries
2200 New Jobs
\$3.5B Investment



EV Battery Production
1000 New Jobs
\$1.5B Investment



Semiconductor Production
3000 New Jobs
\$20B Investment



Semiconductor Production
3000 New Jobs
\$20B Investment



TEXAS
INSTRUMENTS

Semiconductor Production
3000 New Jobs
\$30B Investment



GlobalWafers

Semiconductor Production
1500 New Jobs
\$5B Investment

EV & Battery \$39.8B / 41,650 Jobs
Semiconductor \$192B / 21,500 Jobs
OH \$23.5B / 5,200 Jobs



Semiconductor Production
2000 New Jobs
\$17B Investment



EV Battery Production
4000 New Jobs
\$4B Investment



EV Battery Production
1300 New Jobs
\$2.3B Investment



RIVIAN

EV Production
7500 New Jobs
\$5B Investment



HYUNDAI

EV & Battery Production
8100 New Jobs
\$5.5B Investment



EV Battery Production
5000 New Jobs
\$5.8B Investment



EV Battery Production
2000 New Jobs
\$2B Investment



Semiconductor Production
9000 New Jobs
\$100B Investment (20 years)



EV & Battery Production
6000 New Jobs
\$5.6B Investment

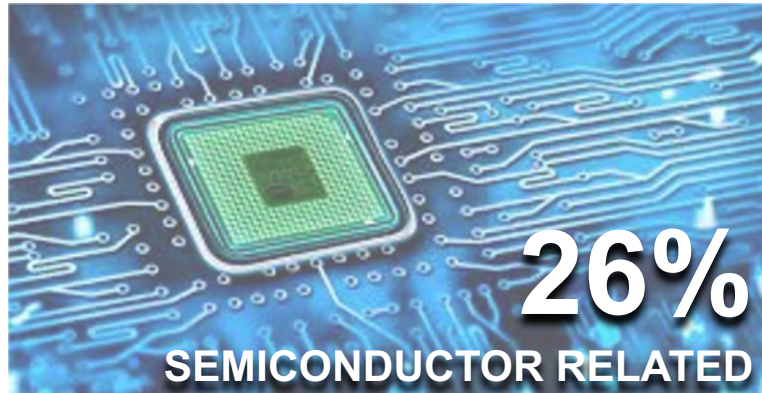


EV Battery Production
1750 New Jobs
\$1.3B Investment

Project Pipeline Insights

121

ACTIVE
PROJECTS



Intel & Semiconductor



Semiconductor Industry

FACTORS DRIVING DEMAND TODAY AND INDUSTRY STATISTICS

- **PC/Computer segment** - Work-from-home, cloud adoption, healthcare, datacenters and the increased use of AI
- **Communications segment** - Rollout of 5G and the Internet of Things
- **Industrial segment** - Internet of Things, digitization of everything
- **Automotive** - Electrification, connected and autonomous vehicles
- **Defense** - All major U.S. defense systems and platforms

6%

Long-term semiconductor sector growth rate (global)

8:1

Estimated economic multiplier

Semiconductor Fab Overview

WHERE FUTURE TECHNOLOGIES BEGIN

- A semiconductor fab (short for fabrication plant) is a manufacturing facility where microchips are made
- Fabs include thousands of process machines including:
 - Plasmas
 - Lasers
 - Ultra-precision optics
 - Ion accelerators
 - Advanced robotics
- Clean rooms can be 100,000x more sterile than a hospital operating room



Semiconductor Supply Chain

KEY CONSIDERATIONS AND SUPPLIER CATEGORIES

- 40+ Tier 1 industry suppliers are following Intel to Ohio
- Team Ohio has engaged suppliers in multiple venues, including SEMICON West and SEMICON Japan
- Aug 2022 Supplier Day: 150+ representatives from nearly 50 companies
- Major supplier categories
 - Tools
 - Production materials
 - Environmental
 - Staffing/Technical





New Albany Tech Park



Workforce Impact

KEY ACTION ITEMS TO SCALE TALENT

- Intel investing \$50 million in Ohio higher education institutions to establish semiconductor manufacturing education
- Deploy national attraction campaign for both entry-level and experienced talent
- Create local technical certificate programs to upskill and reskill talent from underrepresented communities
- Develop a K-12 strategy, including increased STEM education and internships, educator training, and industry engagement



Workforce Programs

ROBUST PARTNERSHIPS AND COLLABORATIVE SPIRIT



Midwest Regional Semiconductor Network

- Partnership between 10 Midwestern schools
- Leverage collective work around semiconductors
- First priorities:
 - Develop an information sharing platform
 - Enhance connections with peers
 - Better utilize resources available throughout the network
 - Identify and pursue funding streams



Modern Manufacturing Work-Study

- An innovative “earn-and-learn” model developed closely with industry partners
- **Interdisciplinary curriculum** –Produces educated and qualified Manufacturing Technicians with supply chain management, engineering technology, and information technology curriculum
- **Students graduate with an Associate Degree** while gaining industry experience and can then transition directly to the workforce or a 4-year university.



\$100M investment

in semiconductor education and research over the next 10 years

\$50M of the investment

directly in Ohio

\$50M match

from the National Science Foundation

Licking County Leadership

- Welcome Intel Task Force providing business leadership voice
- Public plan updates occurring across the county
- FRAMEWORK is serving as a neutral planning convener for Western Licking County communities
 - Work is 65% funded by private sector partners
 - Multijurisdictional development concepts and strategies



For More Information

intel.com/ohio

NewAlbanySiliconHeartland.com

WelcomeIntel.com

Growth Planning



Phase 1 Roadwork

161 WIDENING

- U.S. 62 to I-270
- SR 161 West ramp to I-270 North
- Construction begins Summer 2023
- Additional lanes open by November 2024



Phase 1 Roadwork

SR 161 & Mink Interchange

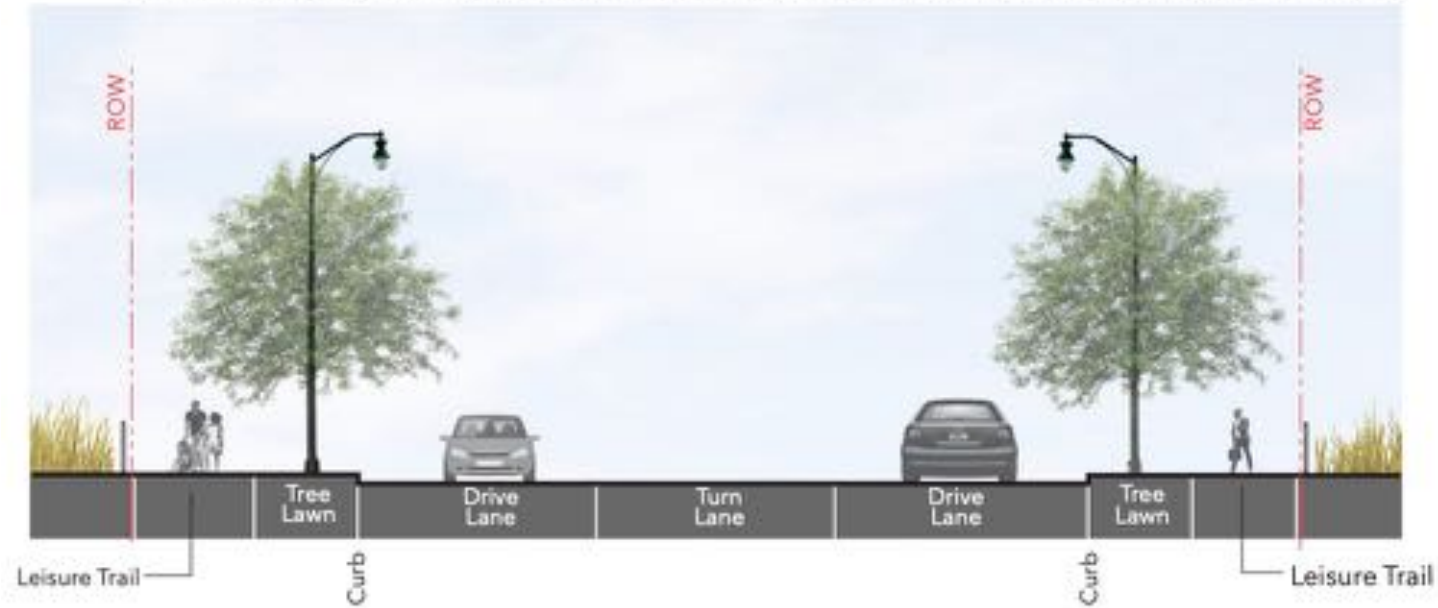
- Widen to two lanes plus turn lanes
- Turn lanes on exit ramps
- Construction to be part of New Albany's Mink St. project
- Complete May 2024



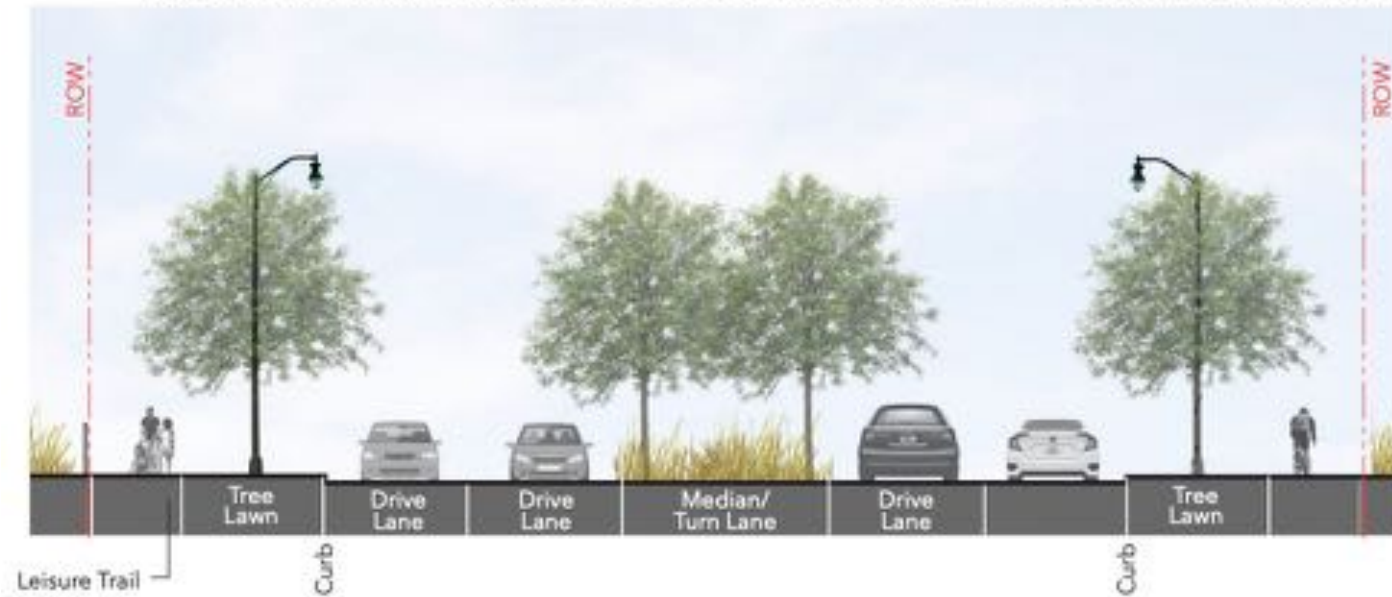
Phase 1 Roadwork



Three-lane roadway section: two total drive lanes with a center turn lane or median



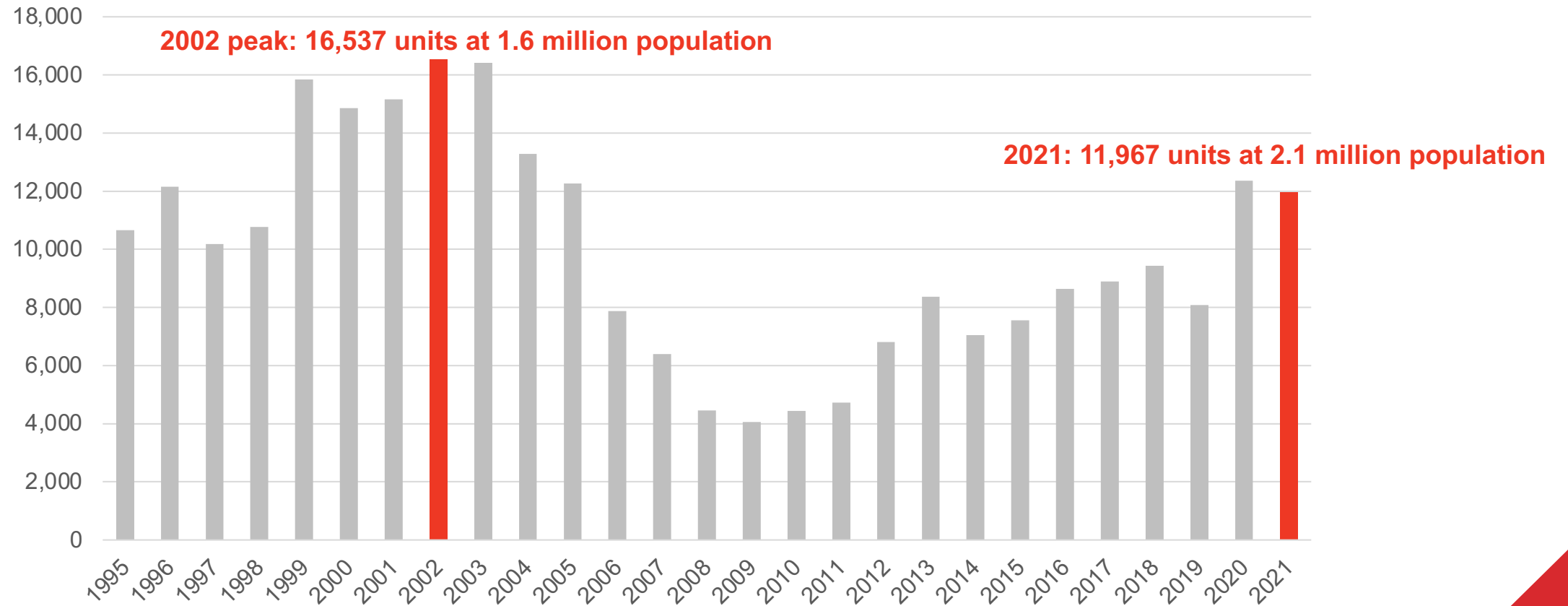
Five-lane roadway section: four total drive lanes with a center turn lane or median



Housing Supply at a Deficit

In 2002, Central Ohio was building nearly 40% more housing with a 30% smaller population

ANNUAL HOUSING PERMITS, COLUMBUS MSA

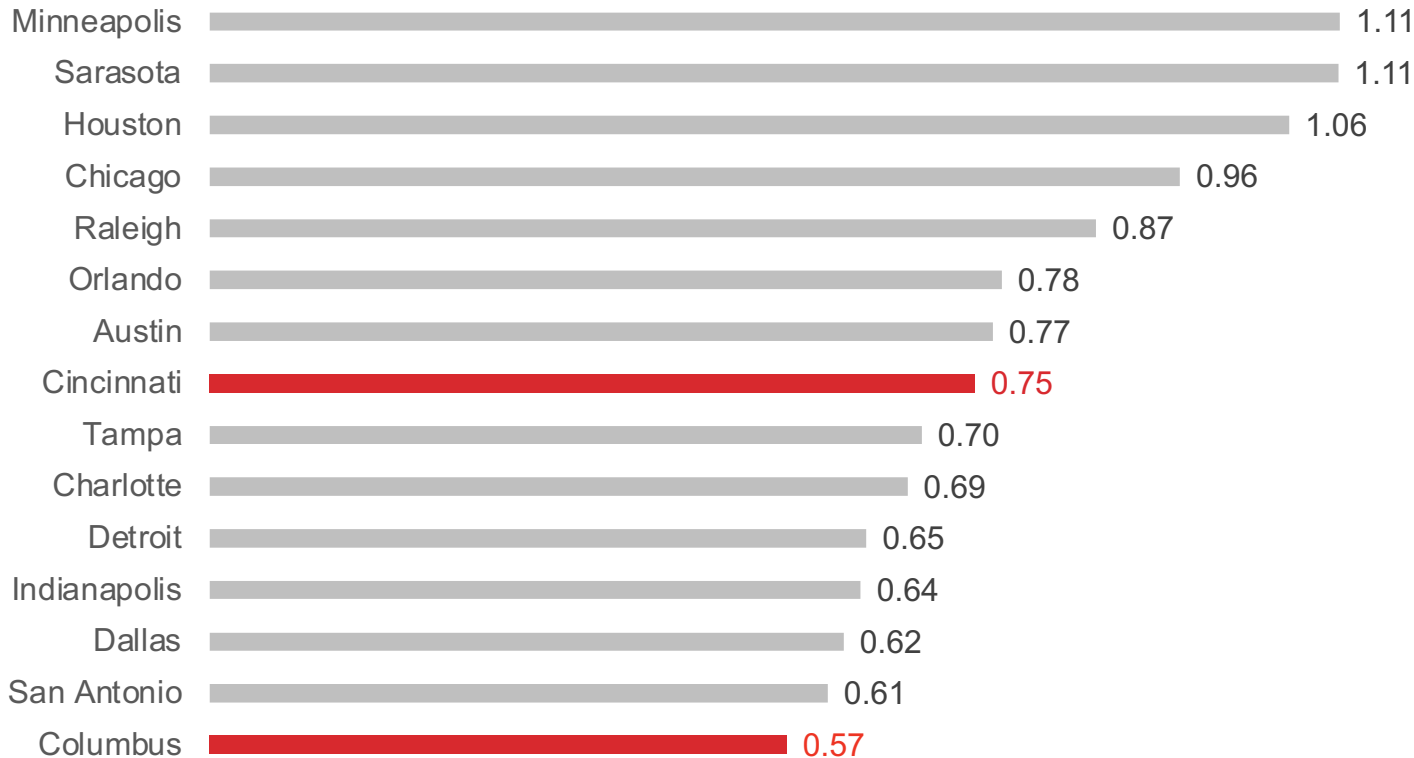


Source: U.S. Census Bureau.

Housing Lags Job Growth

Relative to economic growth, Columbus is producing too little housing. The optimal ratio is 0.9-1.0 home for every job.

HOUSING UNITS PERMITTED PER JOB CREATED IN M/I HOMES' MARKETS, 2010-2020



Sources: U.S. Census Bureau, 2010 and 2020 Decennial Census; U.S. Census Bureau, Building Permits Survey.

Thank you

