NOTICE OF A MEETING
REGIONAL INFORMATION & DATA GROUP
MID-OHIO REGIONAL PLANNING COMMISSION
111 Liberty Street, Columbus, Ohio 43215

Hybrid Meeting

June 1, 2022, 2:30 pm – 4:30 pm

AGENDA

1. **Welcome & Introductions**

   Data Day – *Jonathan Miller*

2. **Debrief of March Meeting (Data Management and Organization)**

3. **Local Government Resources Working Group Update** –
   Chair Christina Drummond

4. **Round Robin on Data Needs, Wants, & Insights**
   What projects have you been working on, and problems or data needs have you realized you need or want for them?

5. **Economic Conditions Facing Ohio (Inflation)**
   - **Presenter 1 –** *Bill LaFayette, Regionomics*
   - **Presenter 2 –** *Matt Waldo, JobsOhio*

6. **Steering Committee Membership Opportunities**
   - **Co-Chair Spot Opening**

7. **Closing Remarks / Adjourn**

Please notify Lynn Kaufman at 614-233-4189 or LKaufman@morpc.org to confirm your attendance for this meeting or if you require special assistance.

The next Meeting of the Regional Information & Data Group
will be September 7, 2022
Location to be Determined

Mid-Ohio Regional Planning Commission
Remote Meeting

Regional Information & Data Group Meeting

June 1, 2022

<u>Members Present</u>
Charly Bauer, Measurement Resources
Joachim Bean, ODOT
Rama Boyapati, Battelle
Christina Drummond, City of Powell
Matthew Ellerbrock, JobsOhio
Jennifer Gildow, One Columbus
Sarah Goodman, United Way of Central Ohio
Samantha Gravas, JobsOhio
Juliet Hall, Rev1 Ventures
Melanie Hill, United Way of Central Ohio
Jeff Howison, Ohio Development Services Agency
Bill LaFayette, Regionomics, LLC
Drew Merrill, COTA
Tom Noorkah, City of Columbus
Andrew Peters, JobsOhio
Chair Katie Phillips, The Ohio State University
Emily Phillis, One Columbus
Kyle Schaper, Licking County
Grace Snider, State of Ohio
Johnny Turner, Franklin County
Harley Vossler, Measurement
    Resources
Matt Waldo, JobsOhio
Liz Whelan-Jackson, OSU
Andrew Williams, City of Columbus
Andrew Wilson, City of Hilliard

<u>Staff Present</u>
Ethan Hug, MORPC
Lynn Kaufman
Jonathan Miller

DATA DAY - CALL FOR PROPOSAL
DUE: JUNE 17, 2022
NOTIFICATIONS SENT: JULY 1, 2022

REGIONAL DATA ADVISORY COMMITTEE (RDAC)
September 15, 2022, 9:00 am – 4:00 pm
MORPC, 111 Liberty St., Columbus, OH 43215

DATA DAY THEME: CENSUS DATA

The Regional Data Advisory Committee (RDAC), as part of the 2021-2022 Regional Data Agenda, is organizing a "Data Day" for the Central Ohio region to support and provide opportunities for building data capacity and education. Data Day is intended to bring the data creators and end users of the Central Ohio data community together to share their experiences, innovative uses of tools and analyses, and creative projects that are moving Central Ohio forward. By coming together and collaborating, these kinds of opportunities will build upon the existing data communities' foundations to increase the region's human and technological capabilities. The inaugural event will be held at the Mid-Ohio Regional Planning Commission (MORPC) on September 15th from 9:00 AM to 4:00 PM.

Coincident with the release of census data, the theme for the inaugural Data Day will be the Census. Sessions are planned to be 1-hour long and are encouraged to utilize the Census theme. With two blocks of time reserved for the sessions, RDAC anticipates being able to accommodate up to 10 sessions over two time periods. Additionally, there is also a 90-minute period reserved at the end of the day for an interactive/workshop styled session, as a stand-alone presentation at the end of the day. Presenters will be responsible for bringing their own laptops and/or handouts. Data Day will also have a virtual component; all sessions will be streamed as well for the virtual participants.

Below are the requirements for submitting a session proposal. Submittals should include information on the presenter, presenter's organization, and information for a contact person if that differs from the presenter. The submission should also include a working title and abstract of the session, as well as the desired learning objectives and the applicable competency areas. Finally, make sure to include a holistic description of the benefits that will be gained by attendees to your session.

Thank you for your interest in being a part of this exciting event. Your participation in Data Day will help ensure the success of the event and contribute to the continued growth of the data community in Central Ohio.

Looking Forward to Your Amazing Projects,

RDAC; The Capacity Building and Partnerships Working Group

William Murdock, AICP *Executive Director*	**Erik J. Janas** *Chair*	**Chris Amorose Groomes** *Vice Chair*	**Michelle Crandall** *Secretary*

1. **Applicant Information**

   Include the Organization's name, and provide a contact person for the application, including their name, phone number, and preferred email.

2. **Session Title**

   Session Title should be catchy. This is the first impression to convince attendees that your session is worthwhile. The title should also reflect the purpose of the session, and as well as how the session will address the content (i.e. Navigate the Census Website Like a Pro, The Easy Way to Organize Census Date, How to Avoid Miscommunicating Data, A Guide to Data Management, etc.). Limit the title to 10 words or less.

3. **Learning Objectives**

   What will attendees learn/gain from your session? Will attendees learn a lot about a specific topic, or will attendees learn a little about a broad topic? Summarize all of the sessions learning objectives in a short paragraph for each objective.

4. **Competency Area**

   The Regional Data Advisory Committee has identified six goals for its 2021-2022 Regional Data Agenda. Each session should relate to at least one of these goals, within the overall theme: Census Data. The six goals are: (1) Foster Collaboration, (2) Capacity Building & Education, (3) Governance & Practices, (4) Data Procurement & Development, (5) Digital Equity & Broadband Infrastructure, and (6) Data Access, Inclusion, and Equity.

5. **Summary of Session/Abstract**

   Provide an abstract (short paragraph) to include with the session title if selected. The abstract should communicate all relevant information to all potential Data Day attendees: content, purpose, skills learned or needed as a base

6. **Benefits to data users across the Central Ohio region**

   How do you see this session benefiting data users across Central Ohio? How will the objectives and content from your session affect the region as a whole? What new skills/knowledge will attendees gain that can, in-turn, lift the Central Ohio Region?

7. **Speakers**

   Who are the speakers/presenters of the session? Make sure to include their name, title, and organization.

Please submit any questions regarding Data Day and completed session proposals to Jonathan Miller at jmiller@morpc.org.

Crowdsourcing Data Policy, Management & Governance Resources

Christina Drummond, Chair
Local Resources Working Group
MORPC Regional Data Advisory Committee

MID-OHIO REGIONAL
MORPC
PLANNING COMMISSION

Local Resources WG Background

MORPC

Related Regional Data Agenda Goals

- GOAL 2: MORPC will support and provide opportunities for data <u>CAPACITY BUILDING & EDUCATION</u> that increase both the human and technological capabilities of the region.

- GOAL 3: MORPC will <u>promote good data GOVERNANCE & PRACTICES</u> that protect local governments and their citizens, and adapt to the evolving data and technology landscape.
  - 3.1 Encourage the adoption of good data policies by member communities.
    - Compile best practices for data governance.
    - Publish a data governance, management, and security toolkit for local governments

REGIONAL DATA AGENDA 2021–2022

MID-OHIO REGIONAL **MORPC** PLANNING COMMISSION

Recent History

RDAC Data Policy Survey & Toolkit Working Group (19-21)

- Surfaced Regional Data Governance Needs
- Data Governance Practices and Priorities Priority Assessment Survey
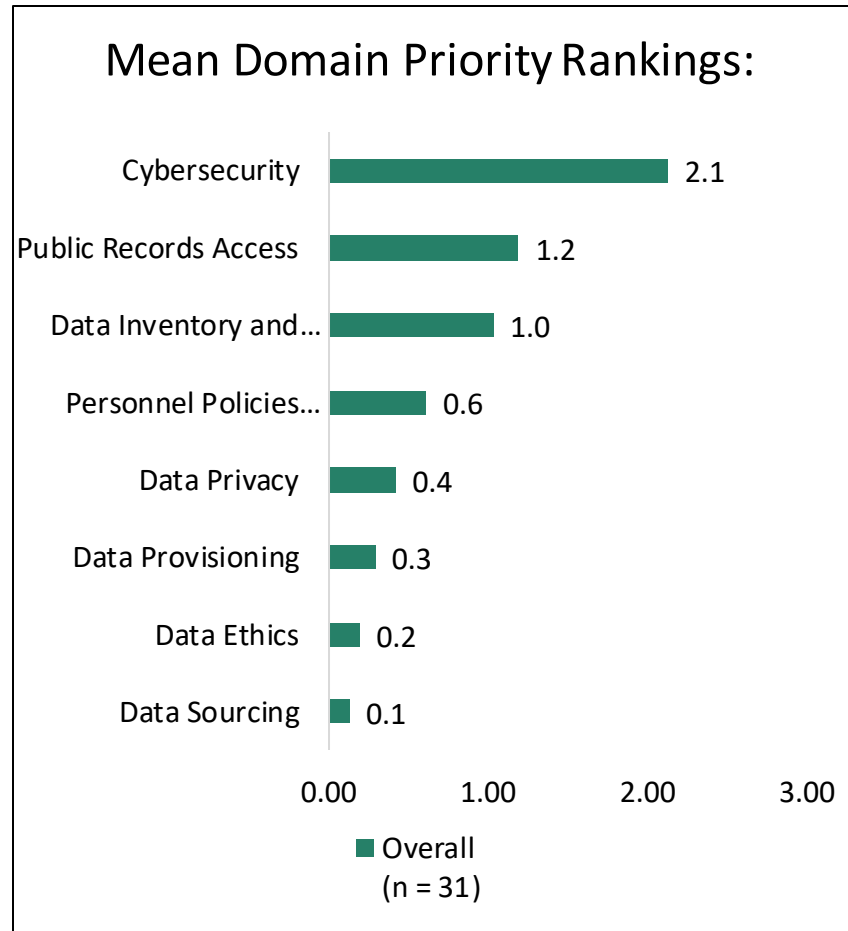- MORPC membership data governance priorities

RDAC Local Resources Working Group (22-)

- Foster sustainable data governance resource sharing among civic data professionals
- Find ways to develop resources that don't already exist
- Work towards making local data governance resources easily Findable, Accessible, Interoperable, and Reusable (FAIR)

REGIONAL DATA AGENDA 2021–2022

MID-OHIO REGIONAL MORPC PLANNING COMMISSION

Central Ohio Local Government Data Policy Survey

Introduction

The Mid-Ohio Regional Planning Commission, guided by its Regional Data Advisory Committee (RDAC) and its Regional Data Agenda, is assessing the data governance priorities of MORPC's membership to develop a data governance toolkit based on member needs. As outlined in the Regional Data Agenda, MORPC's regional data governance goals include: 1)

Indicators of Regional Data Stewardship Perspectives & Priorities

Q: Of the eight categories of data stewardship the three highest priority **for your organization**

Mean Domain Priority Rankings:

Domain	Overall (n = 31)
Cybersecurity	2.1
Public Records Access	1.2
Data Inventory and…	1.0
Personnel Policies…	0.6
Data Privacy	0.4
Data Provisioning	0.3
Data Ethics	0.2
Data Sourcing	0.1

by Respondent Type:

Legend: City… County… Other… Township… Village…
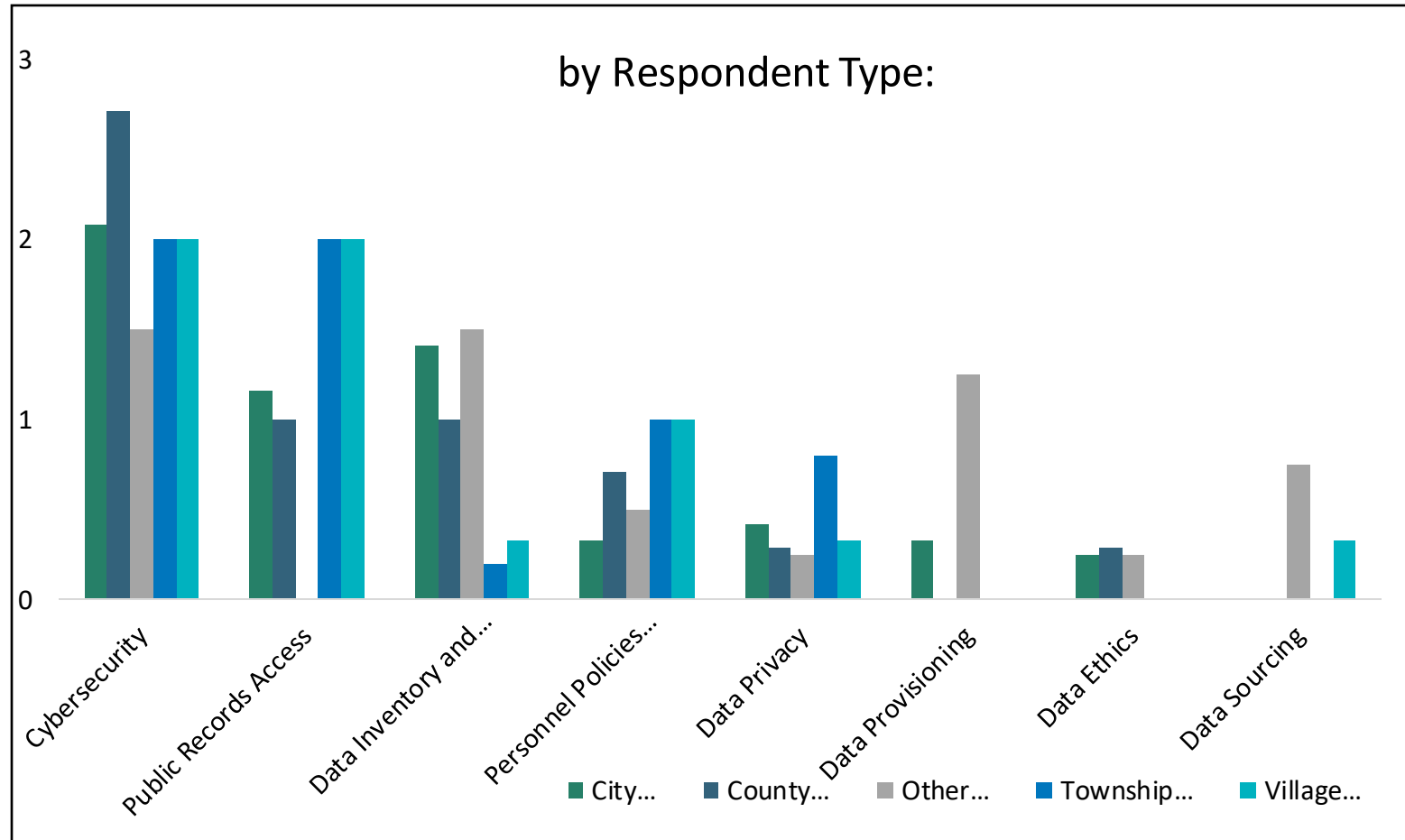
Challenge 1: How to meet varied needs across Central Ohio

- Varying priorities and needs based on type of public agency, staff capacity, program maturity, etc

Can we learn from each other?

Challenge 2: How to expeditiously share quality resources

- Is there a way to "Find what you need when you need it"
- Infrastructure takes time and $ to maintain
- Enable ongoing MORPC and RIDG member resource-sharing

Functional requirements for a data governance resource library

Functional Requirements

Data Governance Resource Library Requirements, developed Feb-May 2022

1. Web-front end

2. Low ongoing maintenance & overhead

3. Ability for MORPC community members to
   - submit resources
   - upvote, star, or flag resources
   - full text search

4. Resources in the system are:
   - indexed/tagged by category (e.g. cybersecurity, privacy, etc.)
   - Version controlled
   - Have recorded, viewable metadata

Actively discussing resource review & curation process

Is anything missing?

Purpose of this document: to capture usability and design requirements related to the infrastructure for local resource sharing. Requirements captured in this draft will be vetted with various MORPC audiences to ensure that the implemented solution meets the needs of MORPC's members.

Document history:
- February 24, 2022: LRWG members brainstormed initial list
- May 31, 2022: Document finalized

Functional Repository Requirements
1) Web-front end
2) Indexed by category
   a) Categorized – initially by the MORPC data governance needs survey categories
      i) with the ability to add other terms/categories over time
3) Full text searchable
4) Version control for resource files (to understand recent and historical versions)
5) Ability for members to upvote, star, or otherwise flag resources they've found useful
6) Ability to record and display resource metadata:
   a) Source of resource, i.e. authoring institution
   b) Resource author(s)
   c) Resource License (for reuse, e.g. CC0, All rights reserved, etc.)
   d) Clear description of resource, including intended audience and purpose
   e) Submitting individual and/or agency
7) Sustainable – i.e. low ongoing maintenance/overhead to maintain. Don't want it to be a burden on MORPC staff
8) Ability for MORPC community members to submit resources
   a) Need a process for resource review/curation
9) User Roles
   a) View-only
   b) Contributor
   c) Voting

Types of resources that may be included in the resource library
- Checklists
- Template policies
- Policy samples
- Recorded "tips for getting started" A/V interviews of other MORPC members
- Contact list of MORPC member contacts with domain experience

Types of resources

- Checklists
- Template or sample policy
- Recorded talks
- Workflows
- Anything else you'd find useful…

MORPC

Crowdsourcing the initial set of resources for priority data stewardship areas

What do you have to contribute?

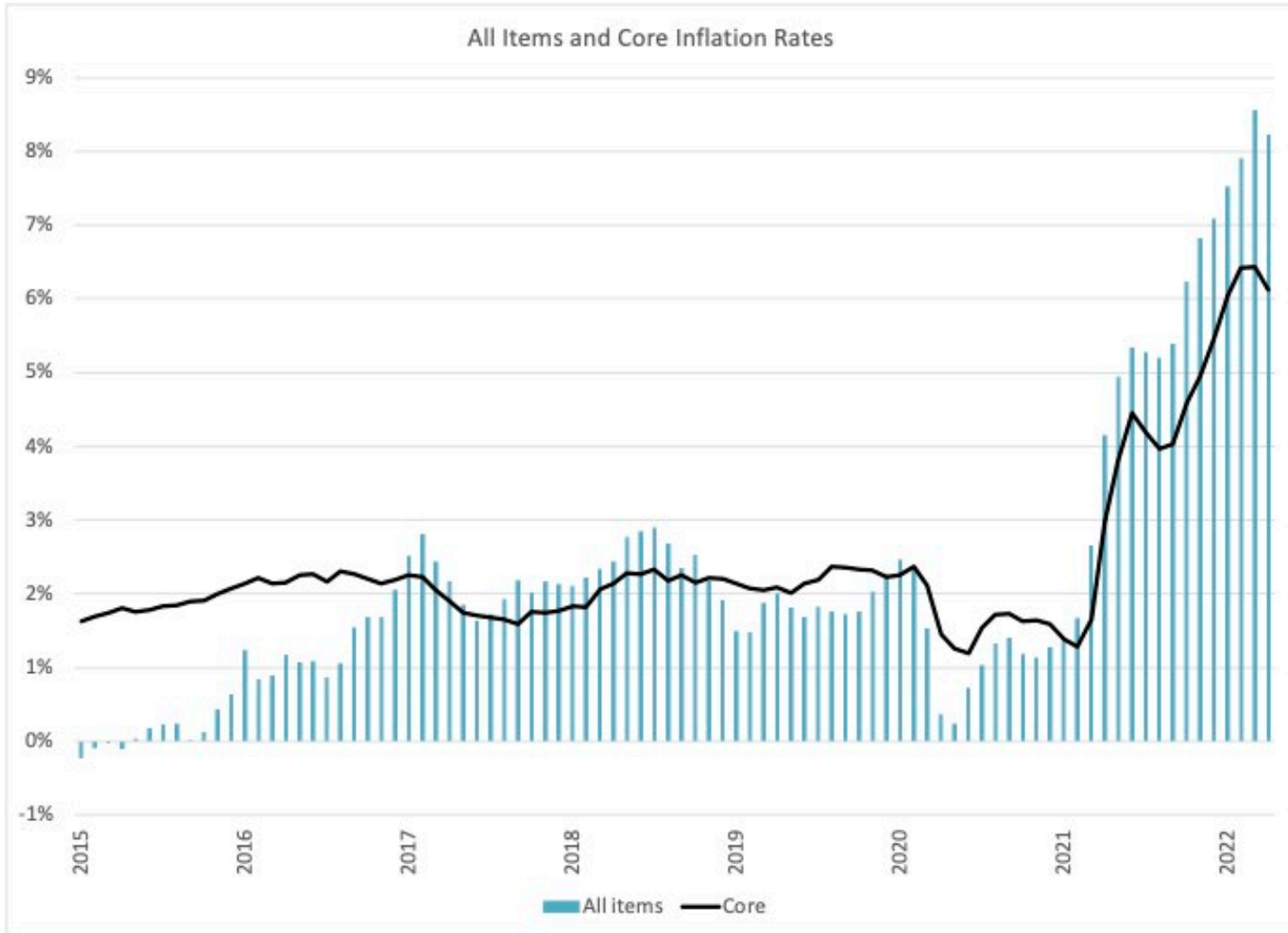*Recommend resources
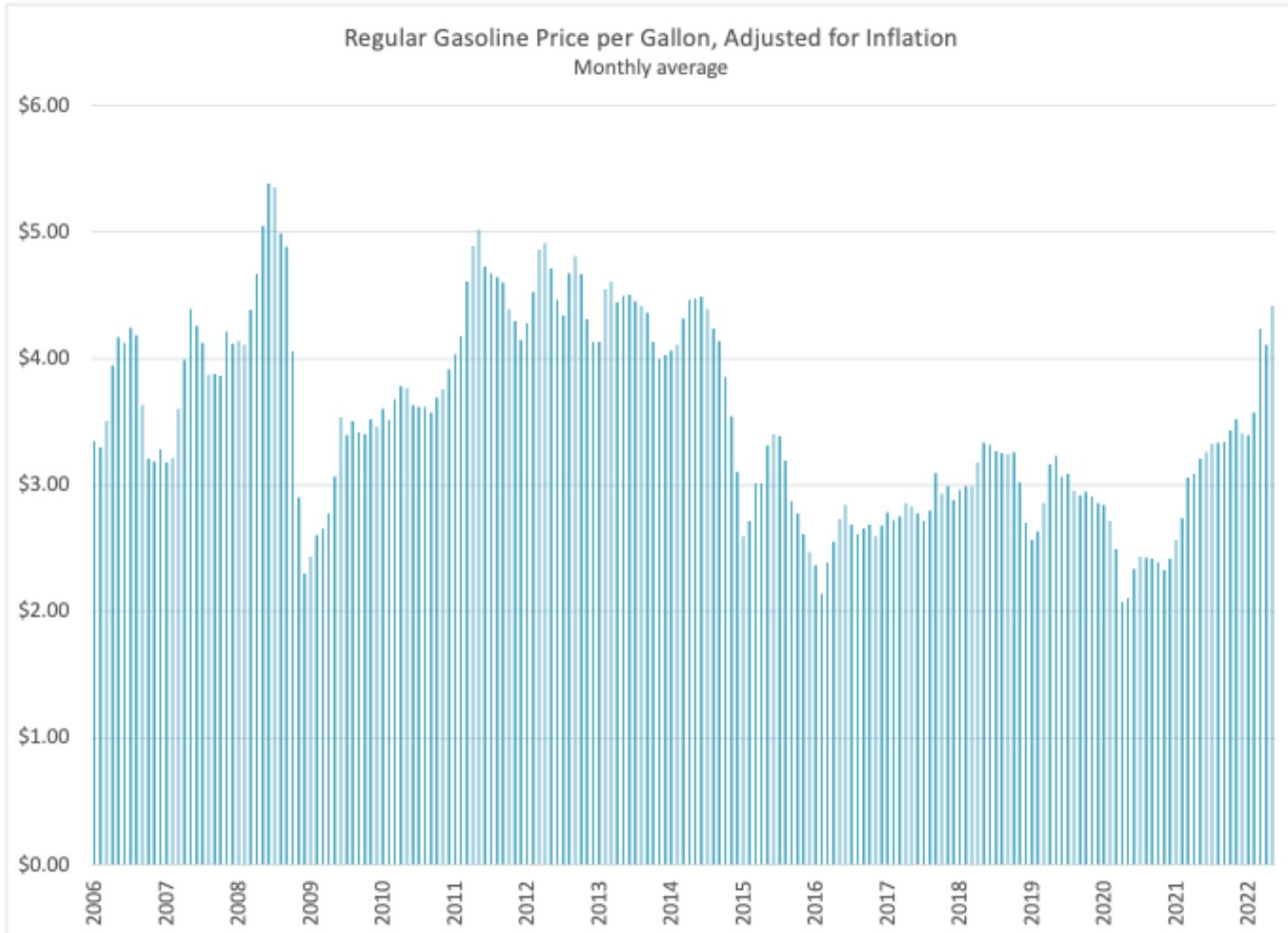or share your own policies as allowable*

MORPC

The Inflationary Surge
Regional Information and Data Group
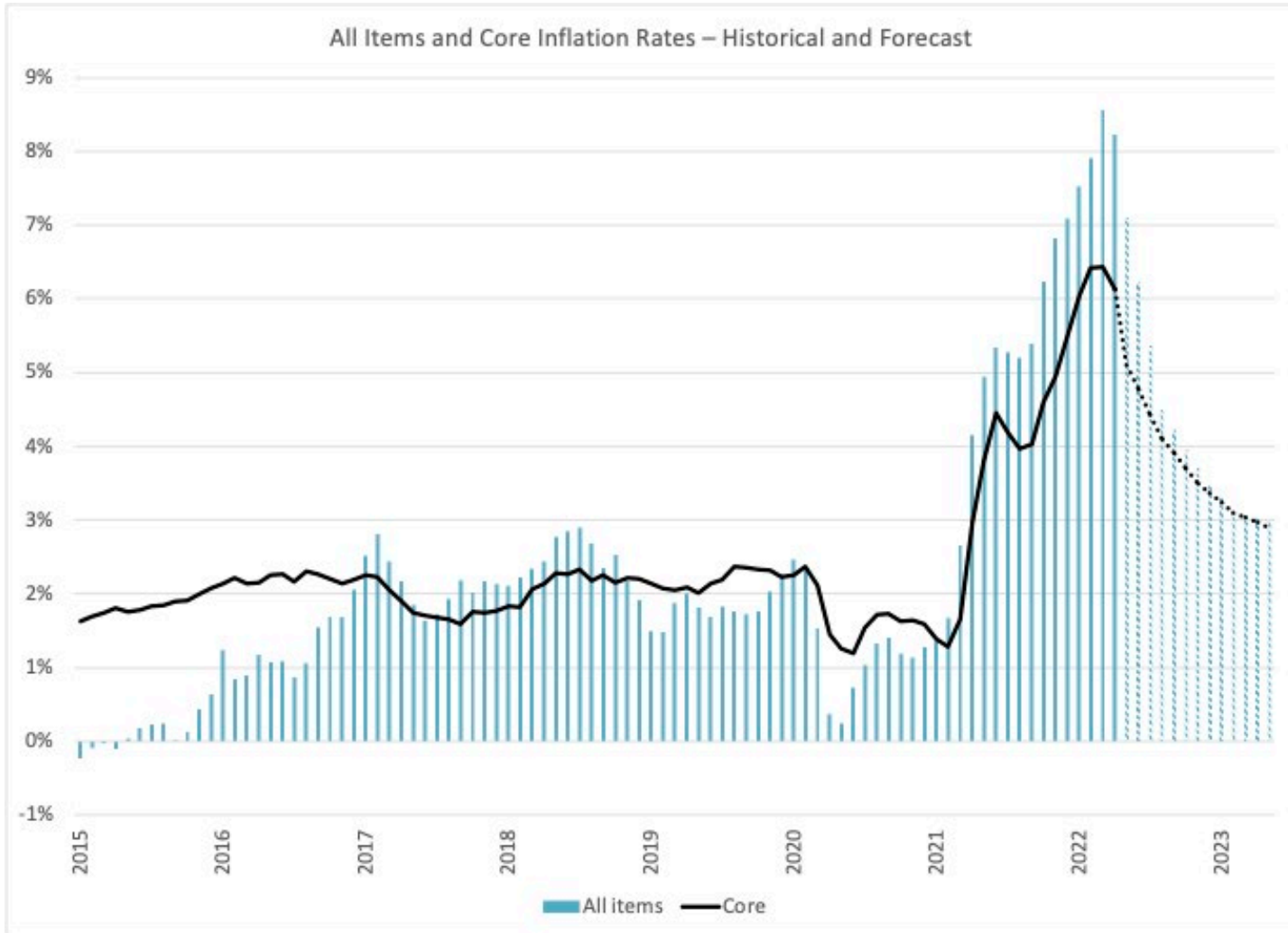June 1, 2022

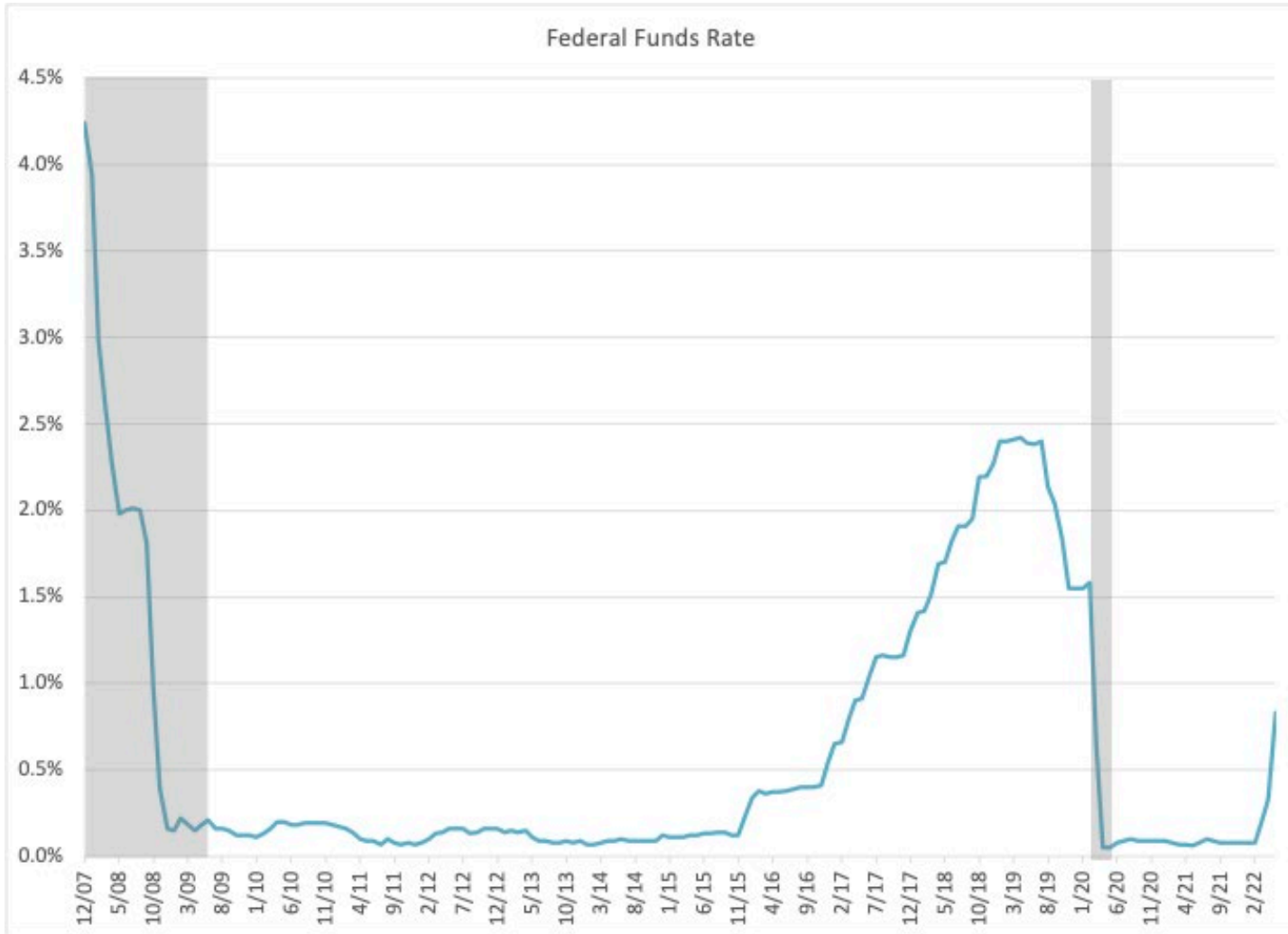Bill LaFayette, Ph.D., owner, Regionomics® LLC

Consumer price inflation

All Items and Core Inflation Rates

Gasoline prices

Regular Gasoline Price per Gallon, Adjusted for Inflation
Monthly average

Inflation forecast

All Items and Core Inflation Rates – Historical and Forecast

Monetary policy responses

Federal Funds Rate

Monetary policy responses
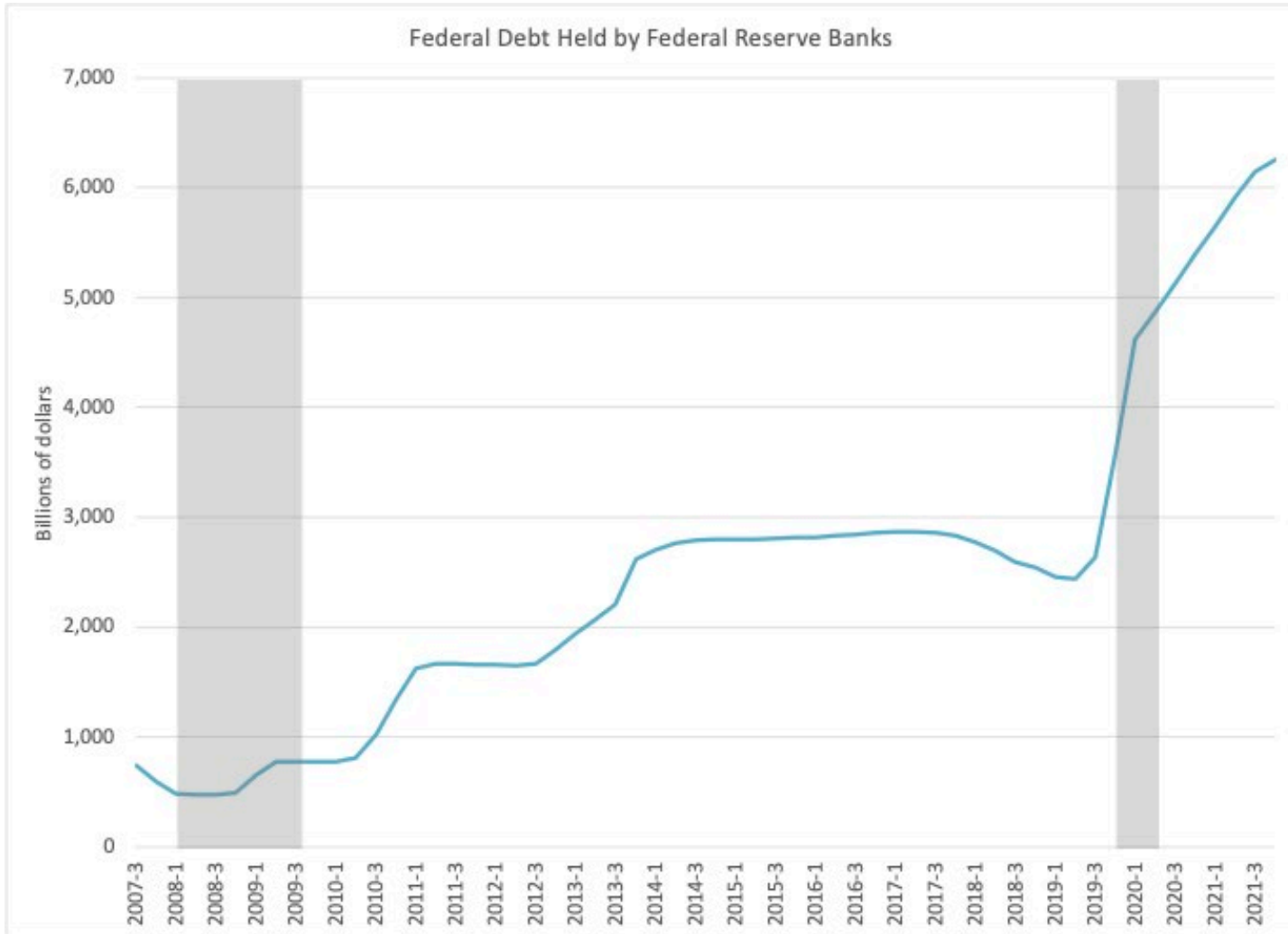
Thank you!

Bill LaFayette, Ph.D.
(614) 654.2151
www.regionomicsllc.com
www.facebook.com/Regionomics
www.linkedin.com/company/regionomics-llc

Ohio's Competitive Advantage in Economic Development

2022

JobsOhio®

Ohio's Economic Development Corporation

Matt Waldo, Senior Director of Research

waldo@jobsohio.com

§ Leads JobsOhio Research since 2014

§ Led research for Indianapolis region

§ Former entrepreneur, college instructor, community college strategic research leader, and scientist

§ Volunteer for Ronald McDonald House of Columbus, Habitat for Humanity

§ Matt and his family reside in the Columbus, Ohio metro

JobsOhio

Topics for Discussion

1. **JobsOhio Introduction**

2. **Ohio Economic Update**

3. **Ohio Business Climate Update**

4. **JobsOhio Results**

5. **JobsOhio Network Researchers**

JobsOhio

JobsOhio A Unique Econ Dev Platform

STABLE FUNDING

JobsOhio

PRIVATE STRUCTURE

STATEWIDE COVERAGE
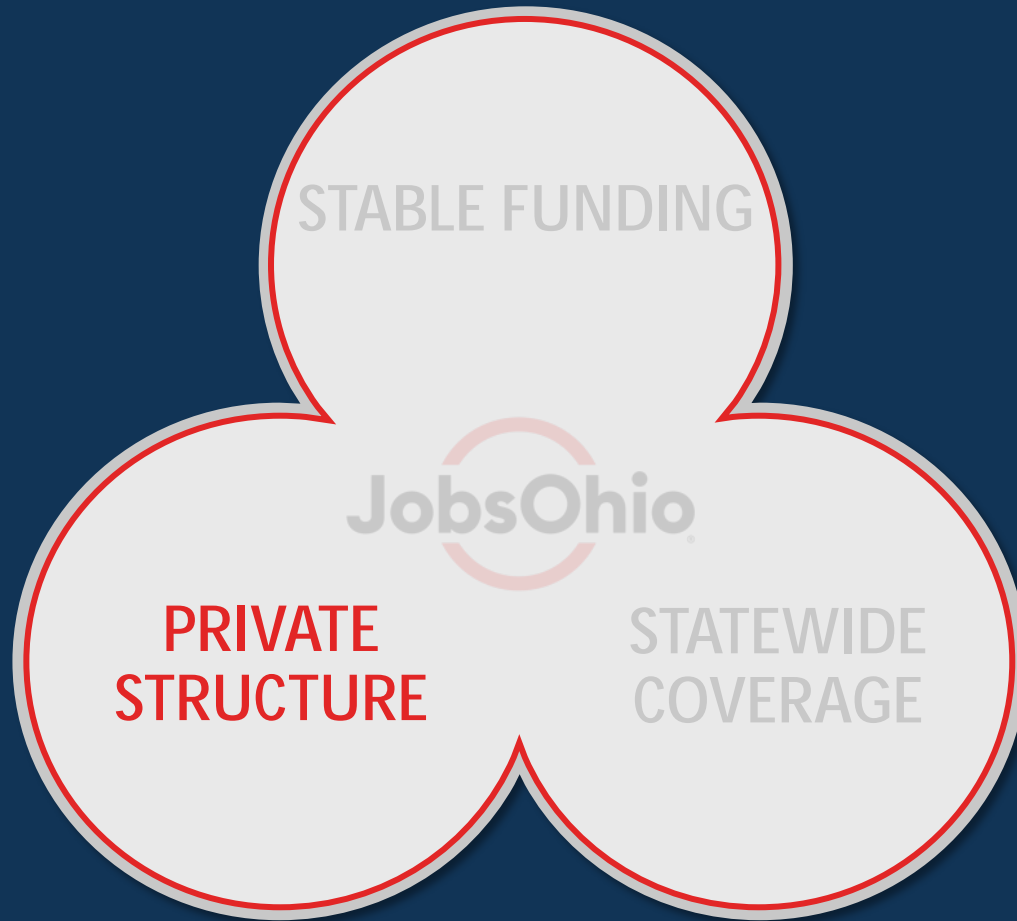
- Speed
- Discretion
- Transparency

GUIDESTAR PLATINUM TRANSPARENCY 2021

JobsOhio

JobsOhio A Unique Econ Dev Platform

STABLE FUNDING

JobsOhio

PRIVATE STRUCTURE

STATEWIDE COVERAGE
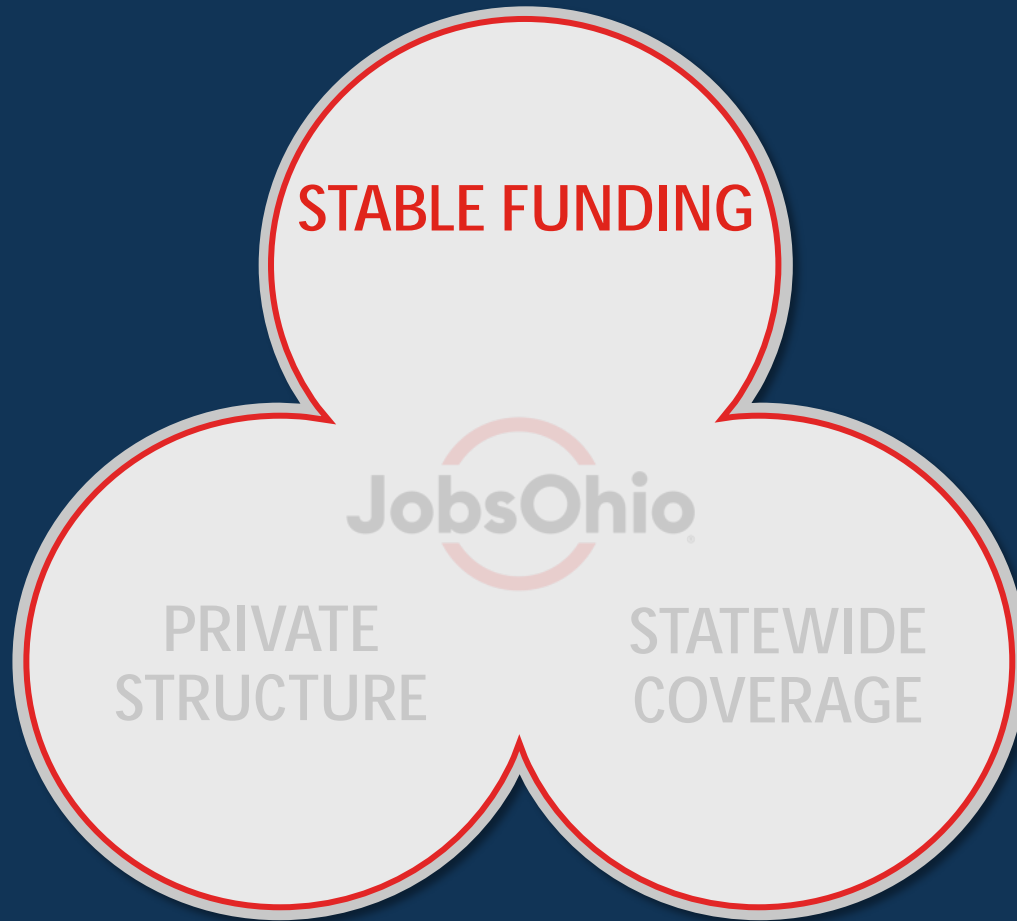
- NO Tax dollars

- Funds Team

- Deals

JobsOhio

JobsOhio A Unique Econ Dev Platform

STABLE FUNDING

JobsOhio

PRIVATE STRUCTURE

STATEWIDE COVERAGE

$380 Million

8.7% (since 2013)

3.7% (2006-2013)

- "Top 100 Retailer" by Beverage Dynamics

- "Best of the Best" by Market Watch

JobsOhio

JobsOhio A Unique Econ Dev Platform

STABLE FUNDING

JobsOhio

PRIVATE STRUCTURE

STATEWIDE COVERAGE

JobsOhio A Unique Econ Dev Platform

STABLE FUNDING

JobsOhio

PRIVATE STRUCTURE

STATEWIDE COVERAGE
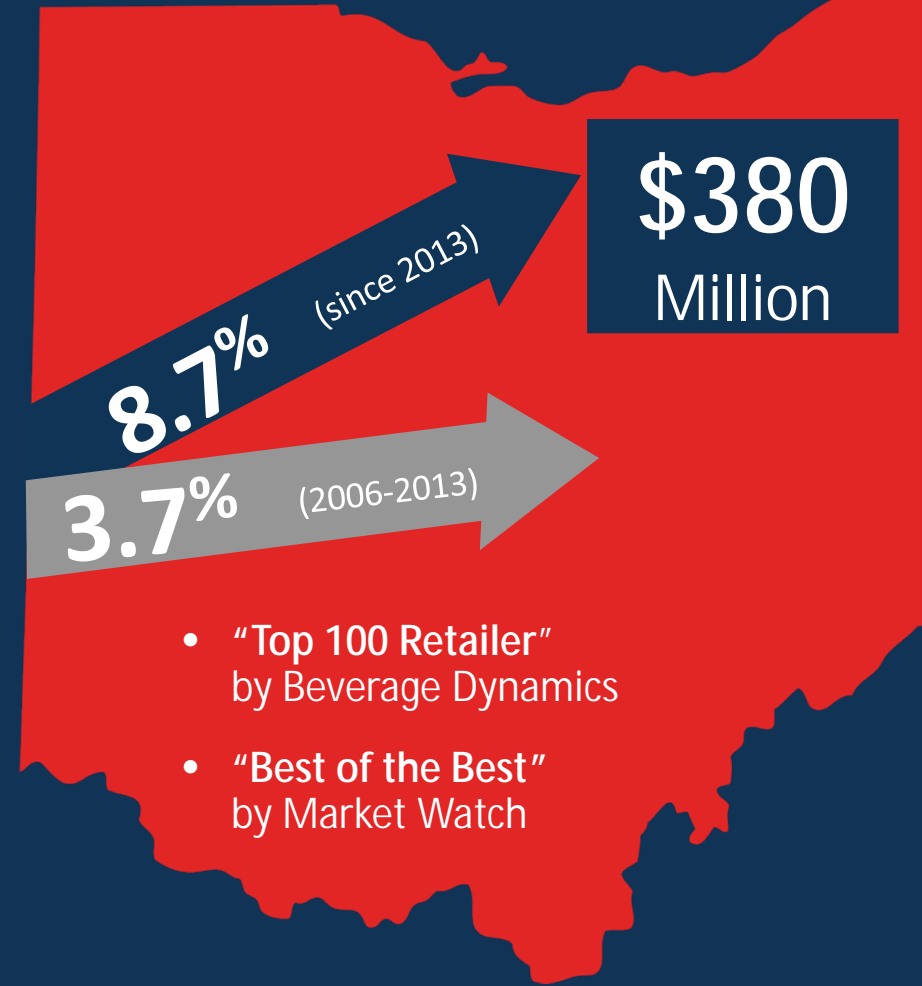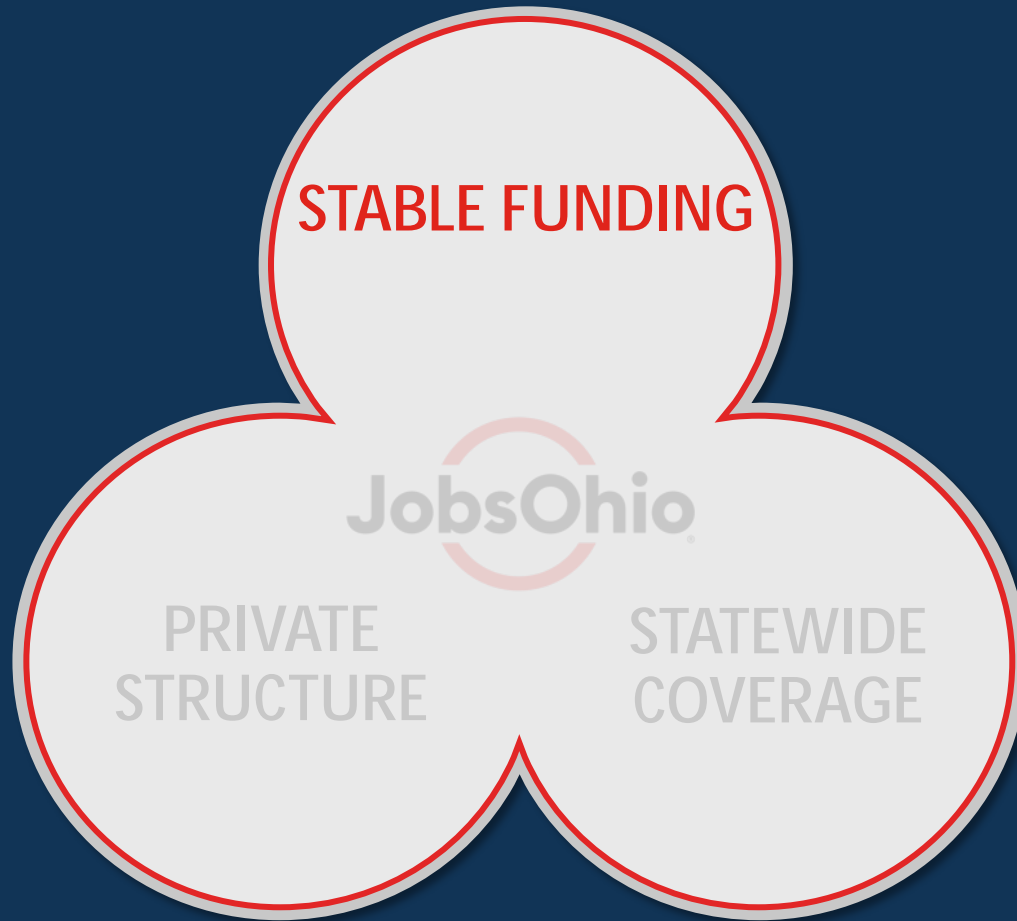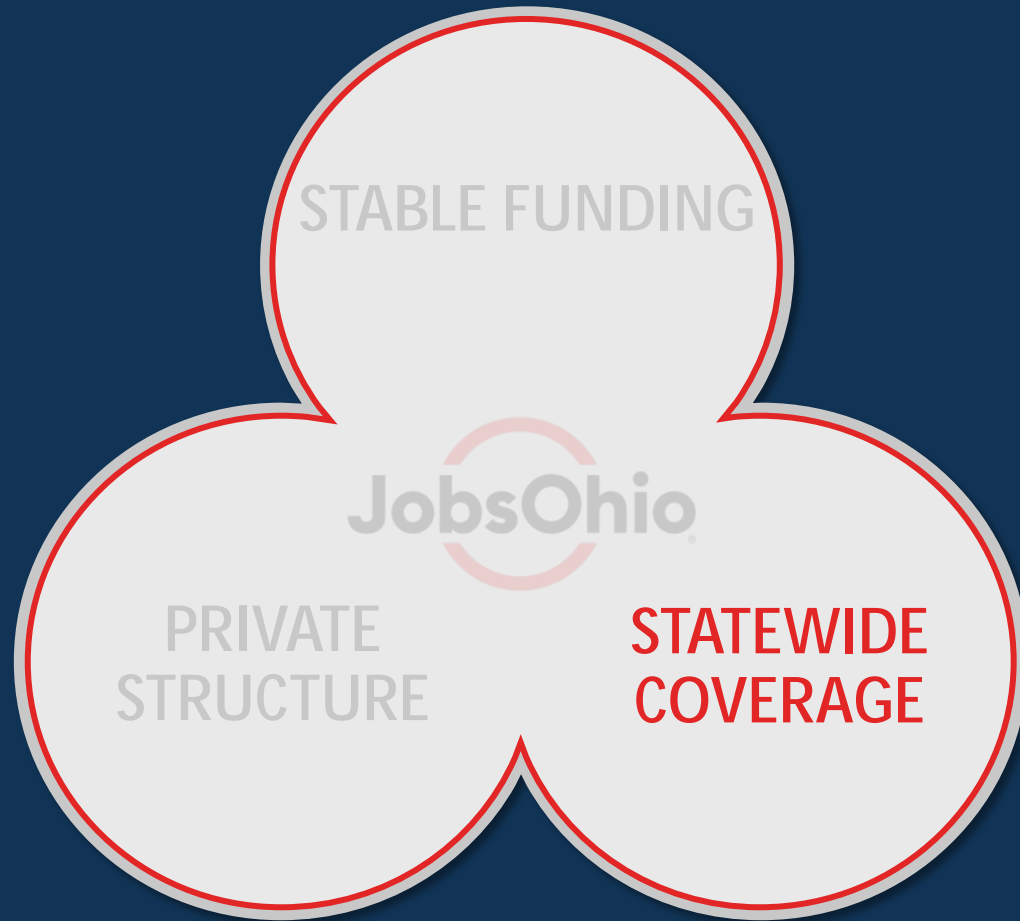
Private Sector Experience

+

Economic Development

JobsOhio

JobsOhio Focus – 9 Sectors + 1

1	Advanced Manufacturing
2	Logistics & Distribution
3	Financial Services
4	Automotive
5	Information Technology
6	Energy & Chemicals
7	Healthcare
8	Food Processing & Agro
9	Aerospace & Aviation
+1	Military & Federal

1.2 Million Jobs

36% GSP

21% Employment

28% Payroll

JobsOhio

JobsOhio 10 Resilient Sectors

1	Advanced Manufacturing
2	Logistics & Distribution
3	Financial Services
4	Automotive
5	Information Technology
6	Energy & Chemicals
7	Healthcare
8	Food Processing & Agro
9	Aerospace & Aviation
+1	Military & Federal

Since 2011, JobsOhio's

10 sector jobs have

GROWN 14%

JobsOhio

JobsOhio deals have OVER performed

1	Advanced Manufacturing
2	Logistics & Distribution
3	Financial Services
4	Automotive
5	Information Technology
6	Energy & Chemicals
7	Healthcare
8	Food Processing & Agro
9	Aerospace & Aviation
+1	Military & Federal

159% more Jobs

299% more Payroll

162% more Capex

for each $1 JO invests
Company invests $70

$3.2B+ Payroll Tax to Ohio

JobsOhio

Mission Expansion since 2019

#	Sector
1	Advanced Manufacturing
2	Logistics & Distribution
3	Financial Services
4	Automotive
5	Information Technology
6	Energy & Chemicals
7	Healthcare
8	Food Processing & Agro
9	Aerospace & Aviation
+1	Military & Federal

JobsOhio 9 + 1 Sectors

Loans	Inclusive Econ Dev
Grants	Stakeholder Engagement
Marketing Ohio	Air Service
Talent Services	Innovation Districts
Job Ready Sites	Growth Capital
Retention & Expansion	Finance Partnerships

Pre-2019	Post-2019

JobsOhio

JobsOhio COVID Crisis Response

10 new initiatives **$250M**

>47M units of PPE **$250M**

300K Jobs Impacted

15K Businesses Impacted

#	Program	Impact
1	Liquor Buyback	**900+** businesses 15,600 jobs
2	Liquor Rebate	**12,503** businesses 250,000 jobs
3	Loan Deferment Program	**39** businesses 5,418 jobs
4	Workforce Retention Loan	**86** businesses 10,678 jobs
5	Appalachian Growth Fund	**27** businesses 675 jobs
6	JobsOhio Innovation Fund	**37** businesses 1,200 jobs
7	Rapid Deployment Initiative	**17** businesses 2,090 jobs
8	Community Bank Partnership	**1,100** businesses 7,150 jobs
9	Port Authority Reserve Fund	**$250M** capacity 8,000 jobs
10	Air Service Restoration Program	**5** airports

JobsOhio

Economic Update
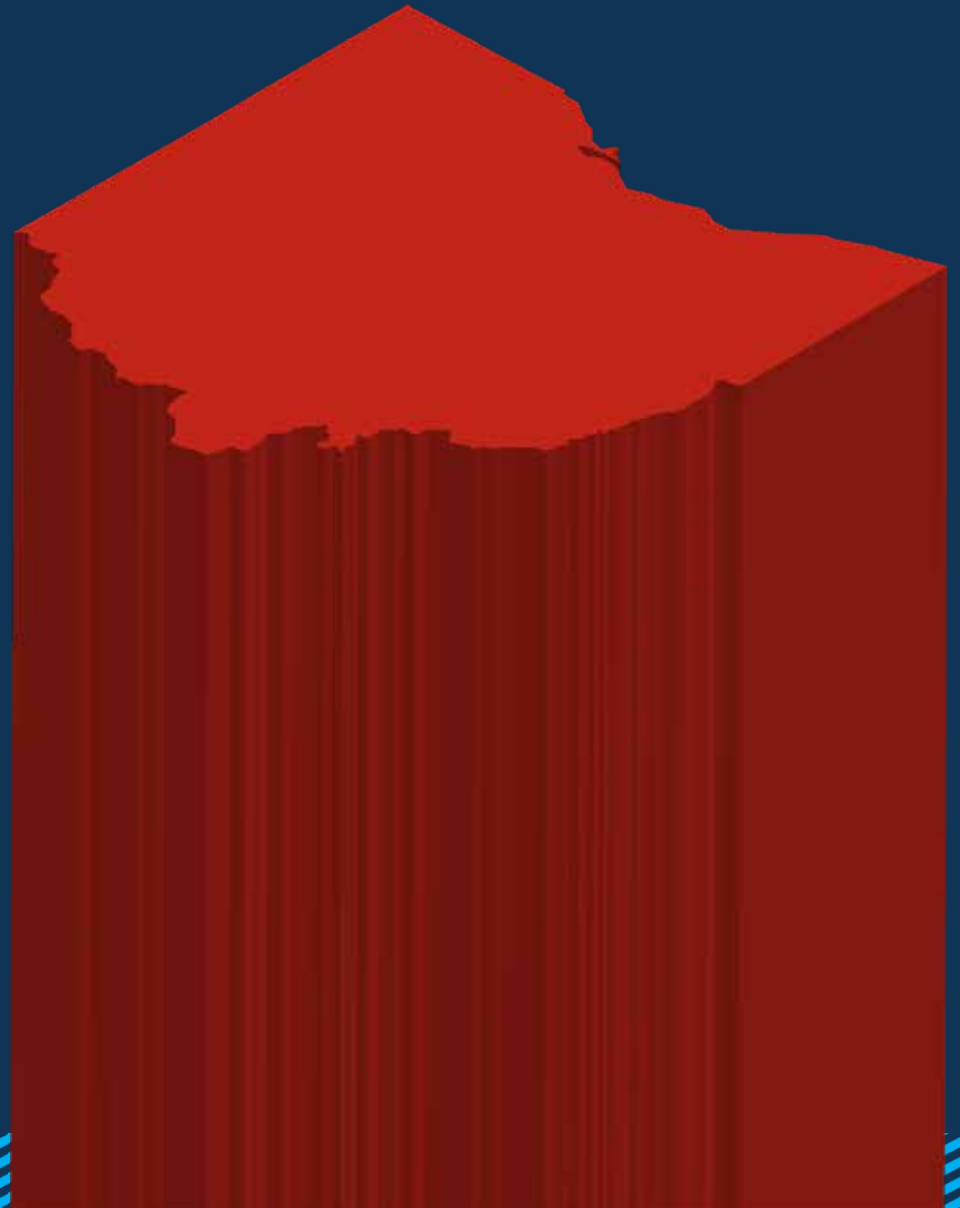
Ohio's National Rankings Moving Up

Overall Econ Dev Projects Governor's Cup	↑	**#2** in USA **2 YEARS IN A ROW**
Best States for Business Chief Executive Magazine	↑	**#7** in USA **UP FROM #41 in 2011**
Cost of Living U.S. News rankings	↑	**#1** in USA **NEW ALL-TIME HIGH**
Venture Capital Investment	↑	**#3** In Midwest **NEW ALL-TIME HIGH** **$901M in Q1 2022**
Labor Productivity Index in Midwest	↑	**#1** in Midwest **REMAINS #1**
State Tax Climate New Data & Distribution Centers	↑	**#1** in USA **NEW ALL-TIME HIGH**

1. **Value Proposition**
2. Performance
3. Covid-Calibration
4. Investment
5. Global Exposure
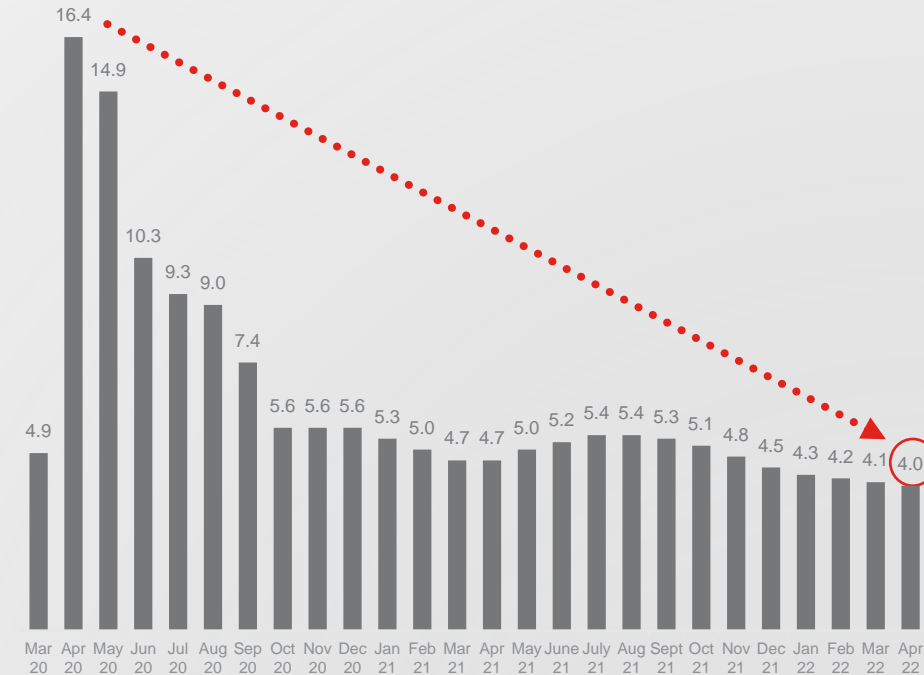
JobsOhio

Rapid Change in Private Employment
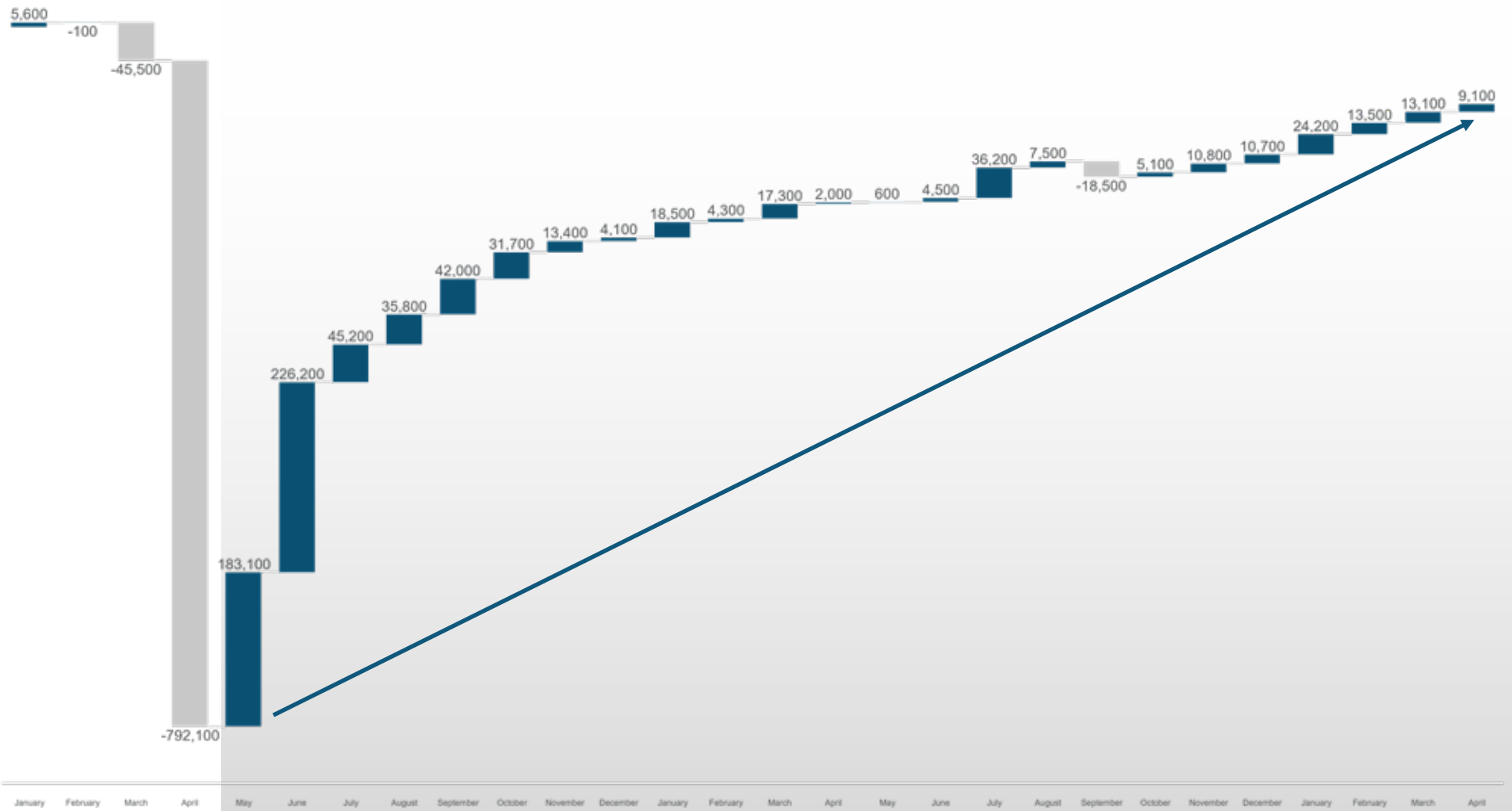
Private Jobs Change, Month Over Month (Count, SA), January 2020 – April 2022 Data

Ohio gained 740,400 private sector jobs since April 2020

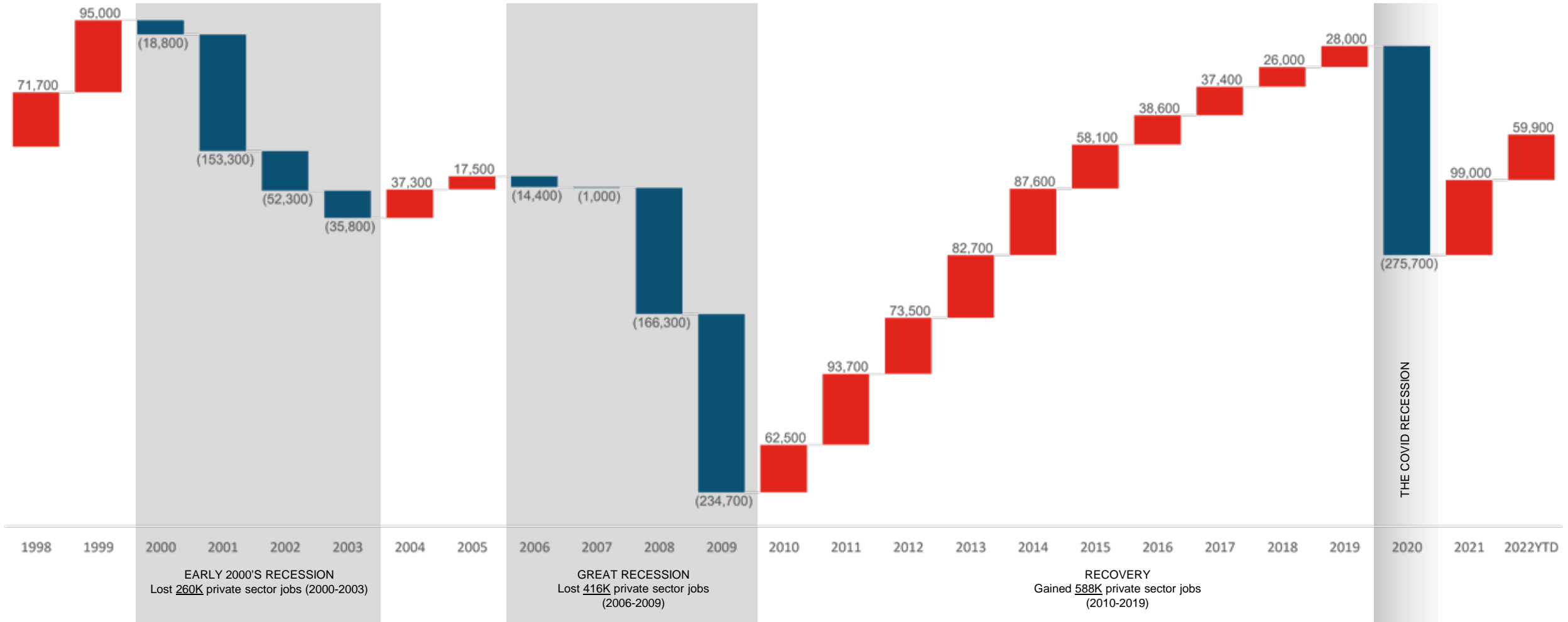Still down by 97,200 private jobs (-2.02%) vs. February 2020

In comparison, **the U.S. gained 20.5M private sector jobs** since April 2020 and is still down by 500k private jobs (-0.39%) vs. February 2020.

Last Updated: 5/23/2022

Historic Private Jobs Change

Ohio Private Employment Trends

1998 – 2022 YTD (Apr 2022)
Private Jobs Change, Year over Year (Count, SA)

Year	Value
1998	71,700
1999	95,000
2000	(18,800)
2001	(153,300)
2002	(52,300)
2003	(35,800)
2004	37,300
2005	17,500
2006	(14,400)
2007	(1,000)
2008	(166,300)
2009	(234,700)
2010	62,500
2011	93,700
2012	73,500
2013	82,700
2014	87,600
2015	58,100
2016	38,600
2017	37,400
2018	26,000
2019	28,000
2020	(275,700)
2021	99,000
2022YTD	59,900

EARLY 2000'S RECESSION
Lost 260K private sector jobs (2000-2003)

GREAT RECESSION
Lost 416K private sector jobs
(2006-2009)

THE COVID RECESSION

RECOVERY
Gained 588K private sector jobs
(2010-2019)

JO Sectors Recovered Pandemic Employment Loss

- *JO targeted sector employment is projected to be 0.1% higher than pre-pandemic level by 2021 year-end.*
- *5 out of 10 JO sectors see employment higher than pre-covid level.*

Targeted Sector	Pre-COVID Ohio Jobs (000s)[1]	2021 Ohio Jobs (000s)[2]	Key Themes Impacting Outlook
Advanced Manufacturing	223	207	Additive/3D Printing, Advanced Materials, Automation/Robotics, Reshoring
Logistics & Distribution	188	216	E-Commerce, Omni-Channel Distribution, Data Driven Supply Chains
Financial Services	167	169	FinTech, InsurTech, Cost Efficiencies
Automotive	111	101	Smart Mobility, Electrification, Light weighting, Chip Shortage
Information Technology	96	100	Cloud Computing, Data Analytics, Digital Transformation, Cybersecurity
Military & Federal	94	95	Capitalize on Surge in Federal Investment, Advanced Air Mobility Initiatives
Healthcare	93	95	Cutting Edge R&D, Gene Therapy Centers of Excellence, PPE Leadership
Energy & Chemicals	92	87	Leverage World's Lowest Natural Gas Prices, Improved Pipeline Infrastructure
Food & Agribusiness	70	70	Complete Ground-to-Consumer Value Chain, Cold Storage, Global Food Shortage
Aerospace & Aviation	39	33	OEMs, Supply Chains Recovering, eVTOL
Total	1.174M	1.175M	0.1%
Construction (Enabler)	232	228	

Based on data through Q3 of 2021, forecast full 2021 on jobs:
5 of 10 sectors up relative to pre-pandemic, 1 flat, and 4 down.

(1) 2019 year-end. (2) 2021 year-end numbers modeled by 2021Q3 QCEW data.
Source: EMSI, excluding self-employed and sole proprietors.

Strong Payroll Growth Across JO Sectors

- JO targeted sector annual payroll is projected to be 6.7% over pre-pandemic level by 2021 year-end.
- 7 out of 10 JO sectors see payroll higher than pre-covid level.

Targeted Sector	Pre-COVID Ohio Payroll ($B)[1]	2021 Ohio Payroll ($B)[2]	Key Themes Impacting Outlook
Advanced Manufacturing	14.1	13.8	Additive/3D Printing, Advanced Materials, Automation/Robotics, Reshoring
Logistics & Distribution	9.2	11.1	E-Commerce, Omni-Channel Distribution, Data Driven Supply Chains
Financial Services	14.7	16.8	FinTech, InsurTech, Cost Efficiencies
Automotive	7.2	6.5	Smart Mobility, Electrification, Light weighting, Chip Shortage
Information Technology	8.8	10	Cloud Computing, Data Analytics, Digital Transformation, Cybersecurity
Military & Federal	6.4	6.8	Capitalize on Surge in Federal Investment, Advanced Air Mobility Initiatives
Healthcare	7.8	8.7	Cutting Edge R&D, Gene Therapy Centers of Excellence, PPE Leadership
Energy & Chemicals	8.2	8.2	Leverage World's Lowest Natural Gas Prices, Improved Pipeline Infrastructure
Food & Agribusiness	3.7	4.1	Complete Ground-to-Consumer Value Chain, Cold Storage, Global Food Shortage
Aerospace & Aviation	3.9	3.5	OEMs, Supply Chains Recovering, eVTOL
Total	84	89.6	6.7%
Construction (Enabler)	14.7	15.3	

Based on data through Q3 of 2021, forecast full 2021 on payroll: **7 of 10** sectors **up** relative to pre-pandemic, and 3 **down**.

(1) 2019 year-end. (2) 2021 year-end numbers modeled by 2021Q3 QCEW data.

Source: EMSI, excluding self-employed and sole proprietors.

Economic Development Outlook

Positives

- **U.S. real GDP growth**
  - 5.7% (2021), 1.8% (2022F)

- **Ohio employment continues to recover**
  - +99K new private sector jobs in Ohio in 2021 (largest annual private job gain in 24 years)
  - In the first four months of 2022, the labor market added 50K+ jobs

- **Labor force participation rebounding**
  - 61.8% in April (vs. <60% in Apr-20)

Risk Factors

- **Inflation at 40-year high**
  - 8.3% in April

- **Rising Interest Rates**
  - Quantitative tightening to ~2% by YE
  - 10-year Treasury yield up to ~3%

- **Attracting workers**
  - 11.5M openings nationally

- **Geopolitical conflicts**
  - Invasion of Ukraine by Russia

"Seventy-seven percent of the panelists indicate the risks to U.S. economic growth are tilted to the downside this year, with monetary policy missteps representing the greatest downside risk," added NABE Survey Chair Yelena Shulyatyeva, senior U.S. economist, Bloomberg. "More than half of respondents estimate the odds of a recession within the next 12 months are greater than 25 percent."

Sources: Federal Reserve, Institute for Supply Management, Chief Executive Magazine, ODH COVID-19 Vaccination Dashboard, U.S. Bureau of Labor Statistics

Federal Reserve Bank of Cleveland

Federal Reserve Beige Book (June 1, 2022)

- Business activity decelerated and was slightly positive as firms grappled with ongoing supply chain challenges, tight labor market conditions, and escalating costs.

- The soft growth of demand was evident in most sectors save for professional services, which grew strongly. COVID-19 concerns were largely absent, while concerns persisted about rising input prices. Firms generally had little difficulty raising prices to offset cost increases, and many contacts expected upward pressure on prices to persist over the next 12 months.

- Staff turnover was high, a fact which they attributed to a variety of factors including retirements, employees' leaving for other higher-paying jobs or opportunities to work remotely, and burnout. One workforce development agency said that it had resorted to essentially knocking on doors in the community to find potential workers. Contacts generally expected wage pressures to remain high over the next 12 months.

- A few contacts reported that lumber prices declined and that steel prices plateaued. However, these decreases were outweighed by increases in other input costs. Contacts generally expected upward pressure on nonlabor costs to remain high over the next 12 months.

- Demand for manufactured goods softened following strong growth in the previous period. High inflation, supply chain disruptions, labor shortages, the war in Ukraine, and COVID-19-related shutdowns in China contributed to heightened uncertainty about the economic outlook and caused some manufacturers' customers to reduce orders. Despite softer demand, many manufacturers noted that they still could not meet demand because of shortages of workers or inputs.

- Nonresidential construction activity slowed because of rising interest rates and construction costs, although it remained positive. One general contractor noted that building costs have escalated to the point that prevailing rents are no longer able to support development costs. As a result, some clients delayed or scaled back projects. Contacts anticipated that nonresidential construction activity would diminish further as higher interest rates and cost pressures persist in the near term.

JobsOhio.

PMI: a Leading Indicator of JO Outcomes

U.S. Manufacturing PMI (2016 - Present)
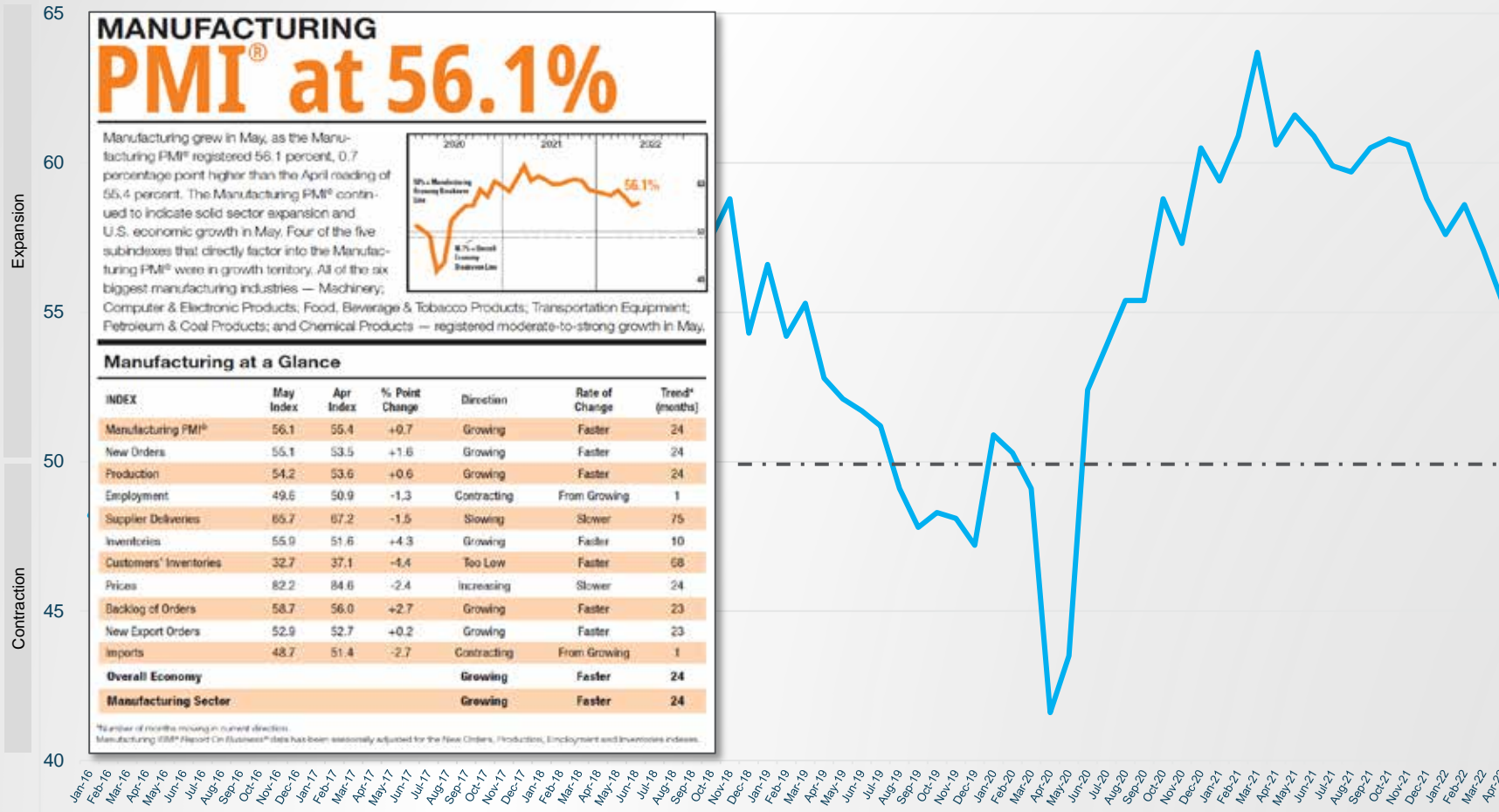
Manufacturing PMI at 56.1% (May 2022)

- 24th consecutive month of expansion

- Progress slowed in solving labor shortage problems and supply chain delivery times at all tiers of the supply chain

- May saw a slower growth of prices expansion, but instability in global energy markets continues

- Demand grew in the during the period, though at slower rates

Sources: ISM

Last Updated: 6/1/2022 by JobsOhio Research

Ohio Business Climate:

A Generational Opportunity
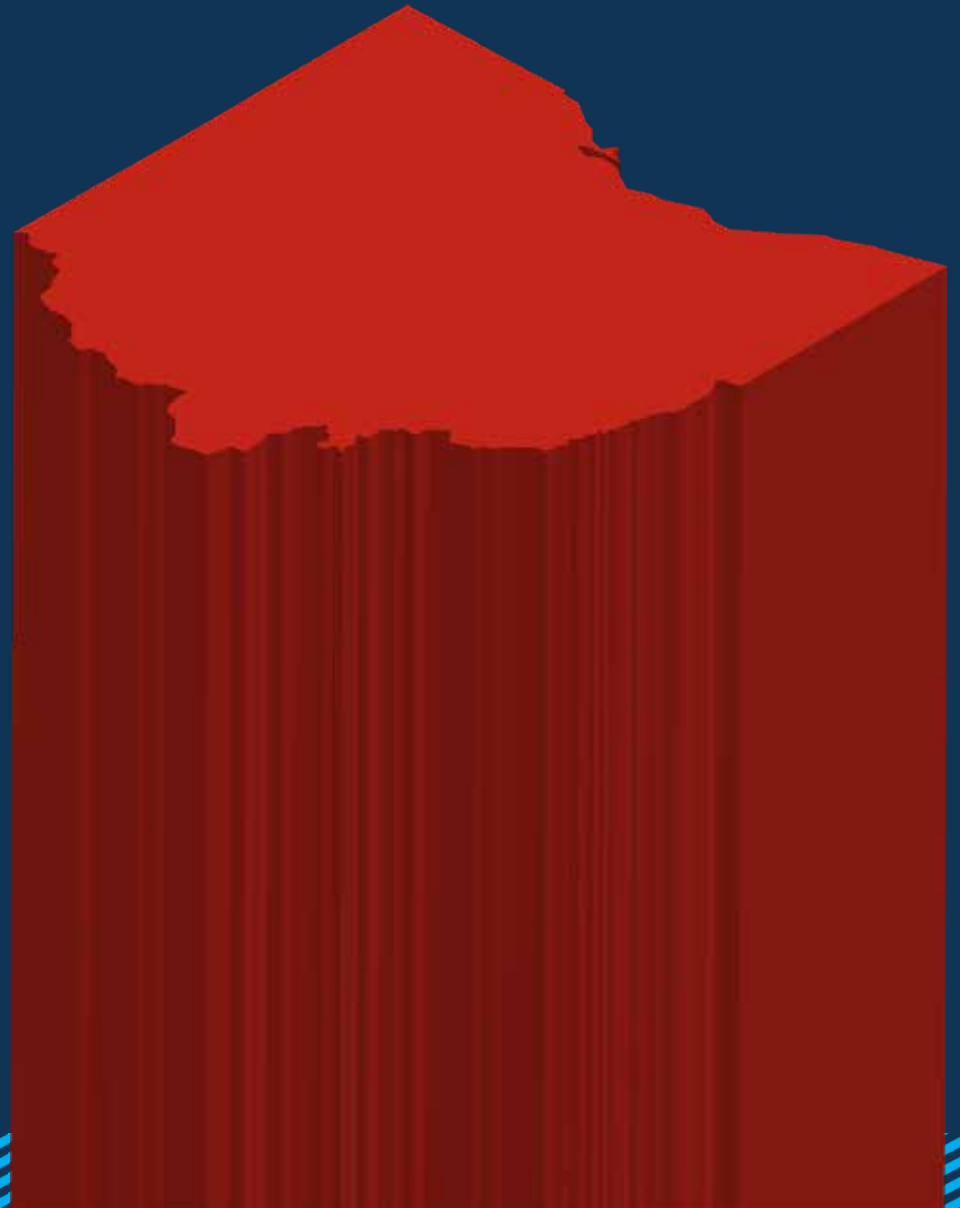
JobsOhio.
Ohio's Economic
Development Corporation

16 Years of Positive Tax Changes in Ohio

2005 - 2010
- 5 yr. 21% income tax reduction
- Corporate Franchise & Tangible Personal Property Taxes Phased-out
- Ohio Commercial Activity Tax (CAT), Phased in

2011
Data Center Tax Abatement

2015
- Cont. phasing down personal income tax rates
- Enhanced small business income tax deduction

2019
- Less Income tax brackets (7 to 5)
- Limited financial institutions tax base

2020
Transformation Mixed-Used Development (TMUD) tax credit created for projects that have a major econ. impact on sites & surrounding areas

2005

2021

2013
- **Ohio estate tax repeal**
- 3 yr. reduction in income taxes
- Creation of Business Income Deduction

2017
Eliminated bottom 2 personal income tax brackets

2021
- First $25K of income tax free; 3% income tax cut; reduced brackets to 4 & top rate to 3.99%
- Elimination of employment services tax
- **Capital gains tax deduction**
- Remote work & buy Ohio incentives

ü **Better Business Climate**

ü **Affordability**

ü **Quality of Life**

JobsOhio

2021 Ohio Incentives and Tax Changes

Megadeal
Incentives Created

- 1B Capex
- 75M Payroll
- ≤ 30YR JCTC and ppty. tax

Remote Work and Buy Ohio
Incentives Created

- JCTC for (W2) remote workers
- DAS price preferences for Ohio products

Employment Services
Taxes Eliminated

Eliminates sales and use tax on employment services and employment placement services as of 10/1/2021.

Capital Gains
Taxes Reduced

- VC partners with 2/3 Ohioans
- $50M Assets + $50M Deployed
- 100% gains exemption Ohio cos
- 50% gains exemption non-Ohio cos
- Tax years > 2025

Personal Income
Taxes Reduced

- 3% reduction in tax years > 2020
- Top bracket eliminated
- Top bracket lowered to 3.99%

JobsOhio

JobsOhio Performance

2021 was a record year
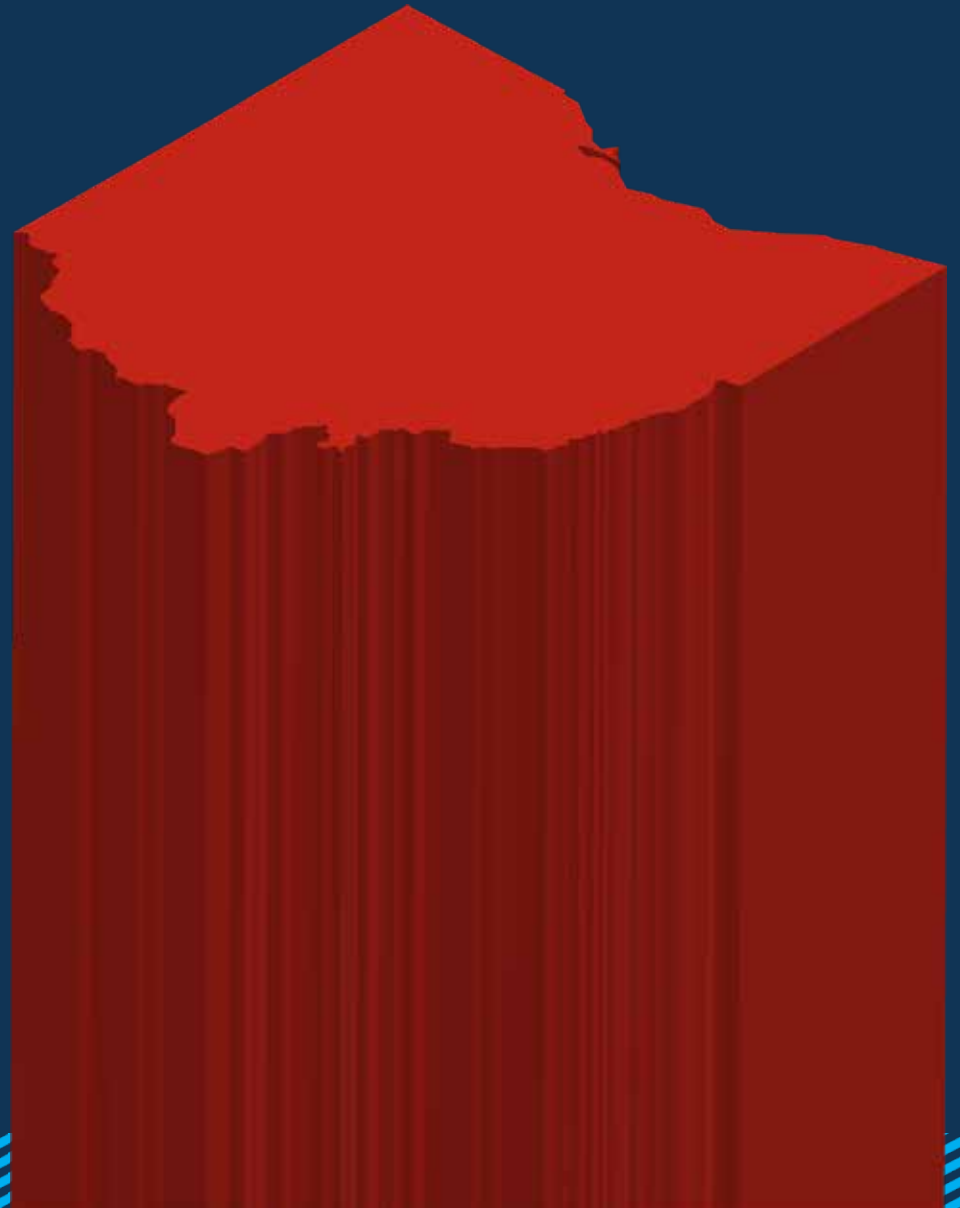
JobsOhio Historic Performance

New Jobs	↑	**29,000+** NEW ALL-TIME HIGH
New Payroll	↑	**$1.6B+** NEW ALL-TIME HIGH
Projects Won	↑	**500+** NEW ALL-TIME HIGH
Business Retention & Expansion	↑	**2,346** NEW ALL-TIME HIGH OHIO BUSINESSES ENGAGED
American Business Awards	↑	**#1** ORGANIZAION 70 (2016) EXCELLENT
Customer Satisfaction	↑	**85** WORLD-CLASS UP From 70 (2016) EXCELLENT

1. Value Proposition
2. Performance
3. Covid-Calibration
4. Investment
5. Global Exposure

JobsOhio

Expansion from the Coasts

42
Projects

10,500+
New Jobs

$24B
New Capital
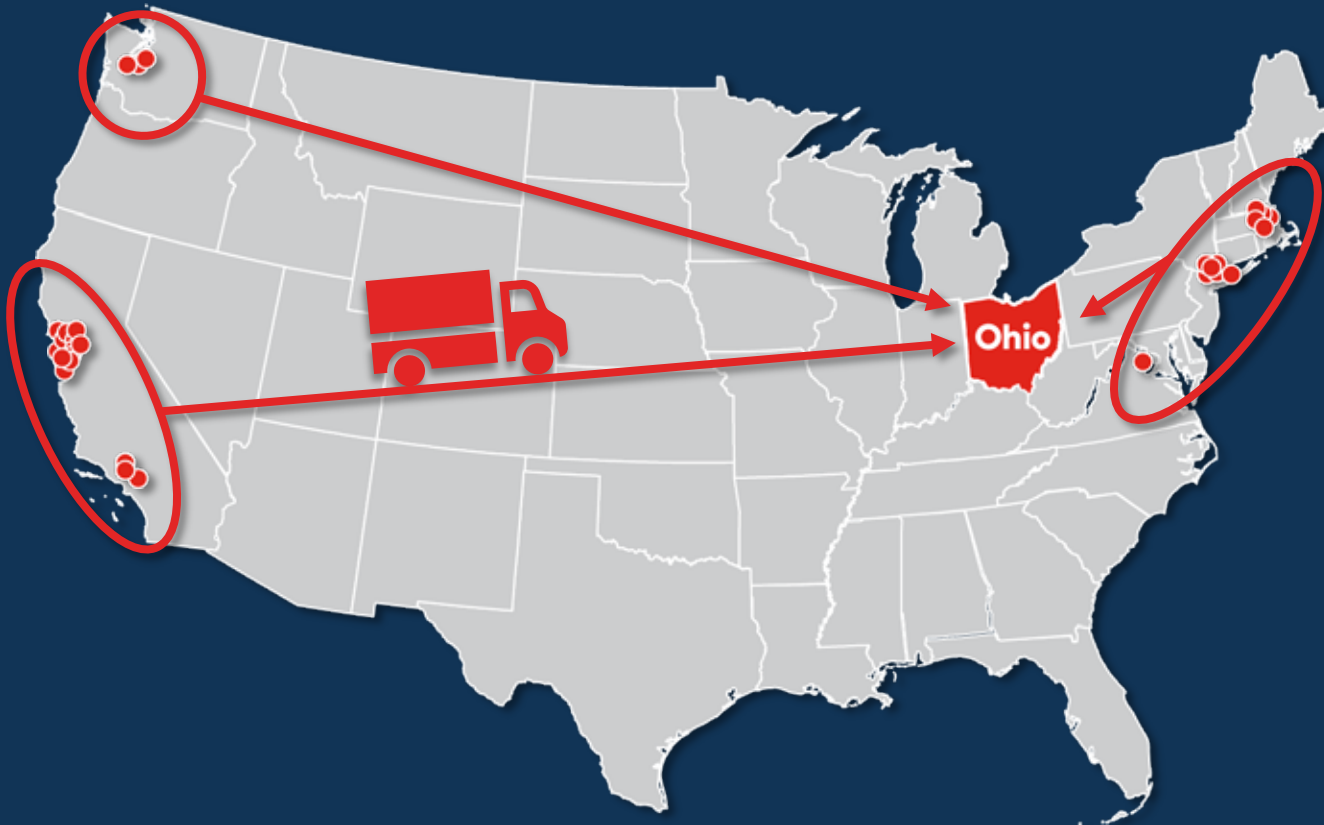
1. Value Proposition
2. Performance
3. **Covid-Calibration**
4. Investment
5. Global Exposure

Ohio

JobsOhio

Reshoring Open & Secure Supply Chains

7
Projects

4,800
New Jobs

$20.9B
New Capital

1. Value Proposition
2. Performance
3. Covid-Calibration
4. Investment
5. Global Exposure

Ohio

JobsOhio

Ohio is Investing in the Future

JobsOhio 9 + 1 Sectors

Loans	Inclusive Econ Dev
Grants	Stakeholder Engagement
Marketing Ohio	Air Service
Talent Services	Innovation Districts
Job Ready Sites	Growth Capital
Retention & Expansion	Finance Partnerships

1. Value Proposition
2. Performance
3. Covid-Calibration
4. Investment
5. Global Exposure

JobsOhio

Largest Single Project Investment in Ohio History (Phase 1)

intel + **Ohio**

Global Coverage
5.7B+ impressions

$255M in Earned Media
for Ohio's Brand

Overwhelmingly positive sentiment

The Columbus Dispatch

SATURDAY, JANUARY 22, 2022 | DISPATCH.COM · 150 YEARS | SINCE 1871 · PART OF THE USA TODAY NETWORK

INTEL IN OHIO: HOW THE DEAL WAS DONE

State negotiated with Intel for about 8 months

Ohio won $20B investment over 35-40 sites, CEO says

'Major win for Ohio,' leaders say about Intel chip plant

1. Value Proposition
2. Performance
3. Covid-Calibration
4. Investment
5. **Global Exposure**

JobsOhio

JO Research Support to Project "Slice"

- **ROI / Fiscal Analysis**
- **Economic Impact Analysis**
- **Incentive Benchmarking**
- **Company & Industry Insights**

Stable Funding

JobsOhio

Private Structure

Statewide Coverage

for illustrative purposes only, data not current

Historic economic impact for Ohio

$6.4B+
Annual economic output

$2.7B+
Annual contribution Ohio gross state product

23K Jobs supported*

$1.9B New annual payroll*

$20B Capital investment

15.6K
Households supported

$135K
3K direct employee average wage plus benefits

ADDITIONAL CONSTRUCTION BENEFIT

$15B+
Economic output*

$4B+
Ohio gross state product*

6.8K+
Jobs supported

$446M
Annual payroll

$65K
Average salary

4.5K+
Ohio houholds supported

JobsOhio | Ohio

OHIO'S ECONOMIC DEVELOPMENT CORPORATION

GENERATIONAL OPPORTUNITY FOR OHIO

- **Industry of the future:** Cement Ohio's leadership, in a new to the state, transformative semiconductor industry

- **Partnership for the long-term:** With immense capital investment and human capital, this project will benefit Ohioans for generations

- **Produce more with less:** Produces double the output per person, far more than typical manufacturing

- **Talent magnet for Ohio:** Talent will move here, students will stay here

- **Company Strategy for hiring Veterans:** Veterans have valuable, demonstrated real-world experience in technical and management skills

COLUMBUS ZOO

1,000+ ACRE MANUFACTURING CAMPUS FOOTPRINT
WITH OPTIONS TO GROW

Current Company Supplier Statewide Impact

140
Current INTC Suppliers

All Regions

$87M
Current annual INTC OH spend
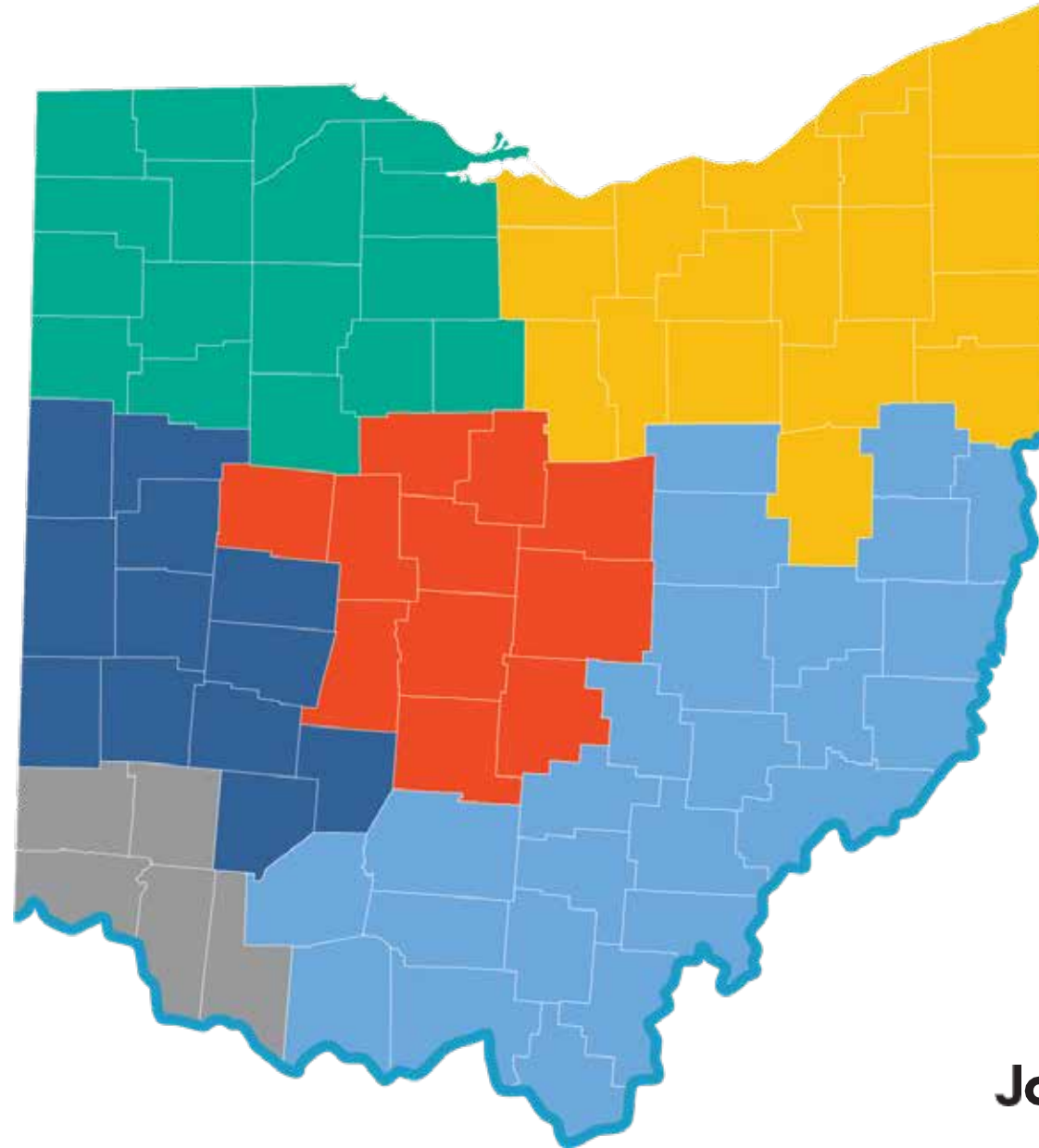
JobsOhio Ohio

Information

Sources of verified / valid information

Intel
- Intel in Ohio microsite
    - https://www.intel.com/content/www/us/en/corporate-responsibility/intel-in-ohio.html
- Intel Newsroom. Search on "Ohio"
    - https://www.intel.com/content/www/us/en/search.html?ws=text#q=Ohio&sort=relevancy

TeamOhio
- New Albany's Silicon Heartland microsite
    - https://newalbanyohio.org/answers/new-albany-silicon-heartland/
- Welcome Intel (by Licking County)
    - http://www.welcomeintel.com/
- OneColumbus
    - https://columbusregion.com/intel/
- JobsOhio's Intel in Ohio
    - https://www.jobsohio.com/intel-in-ohio/

JobsOhio

Success Story

ultium cells

LG Chem Vice Chairman & CEO Hak-Cheol Shin:

"Our joint venture with the No. 1 American automaker will further prepare us for the anticipated growth of the North American EV market, while giving us insights into the broader EV ecosystem. Our long-standing history with General Motors has proven our collective expertise in this space, and we look forward to continuing this drive for zero emissions."

GM Chairman and CEO Mary Barra:

"With this investment, Ohio and its highly capable workforce will play a key role in our journey toward a world with zero emissions. Combining our manufacturing expertise with LG Chem's leading battery-cell technology will help accelerate our pursuit of an all-electric future. We look forward to collaborating with LG Chem on future cell technologies that will continue to improve the value we deliver to our customers."

THE COMPANY:

Ultium Cells LLC is a JV between General Motors and LG Chem. The operation will manufacture lithium-ion batteries for electric vehicles. Ultium Cells plans to establish a lithium-ion battery cell production facility to serve the electric vehicle market. At the completion of the project, this facility will be one of the largest cell manufacturing plants in the world.

THE PROJECT:

- Location: Lordstown, Northeast Ohio
- Jobs created: 1,100
- Capital invested: $2.3B

INCENTIVES:

JobsOhio Economic Development Grant: $ 50,000,000

JCTC Job Creation Tax Credit $ 13,800,000

TOTAL: $63,800,000

JobsOhio projects with suppliers to EV battery manufacturing companies

11 companies with JobsOhio projects listed by S&P Capital have been a supplier to one of the 36 global EV battery manufacturers or OEMs
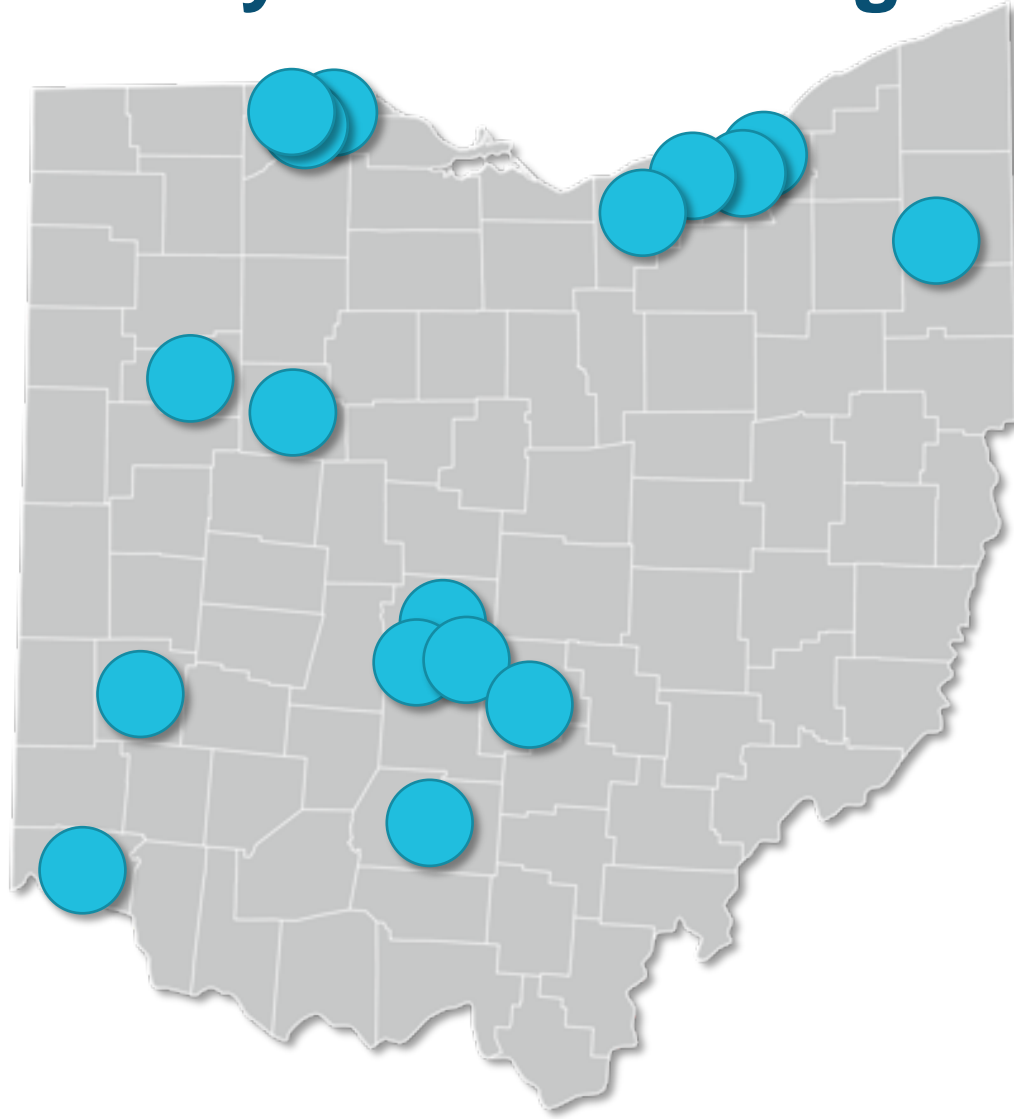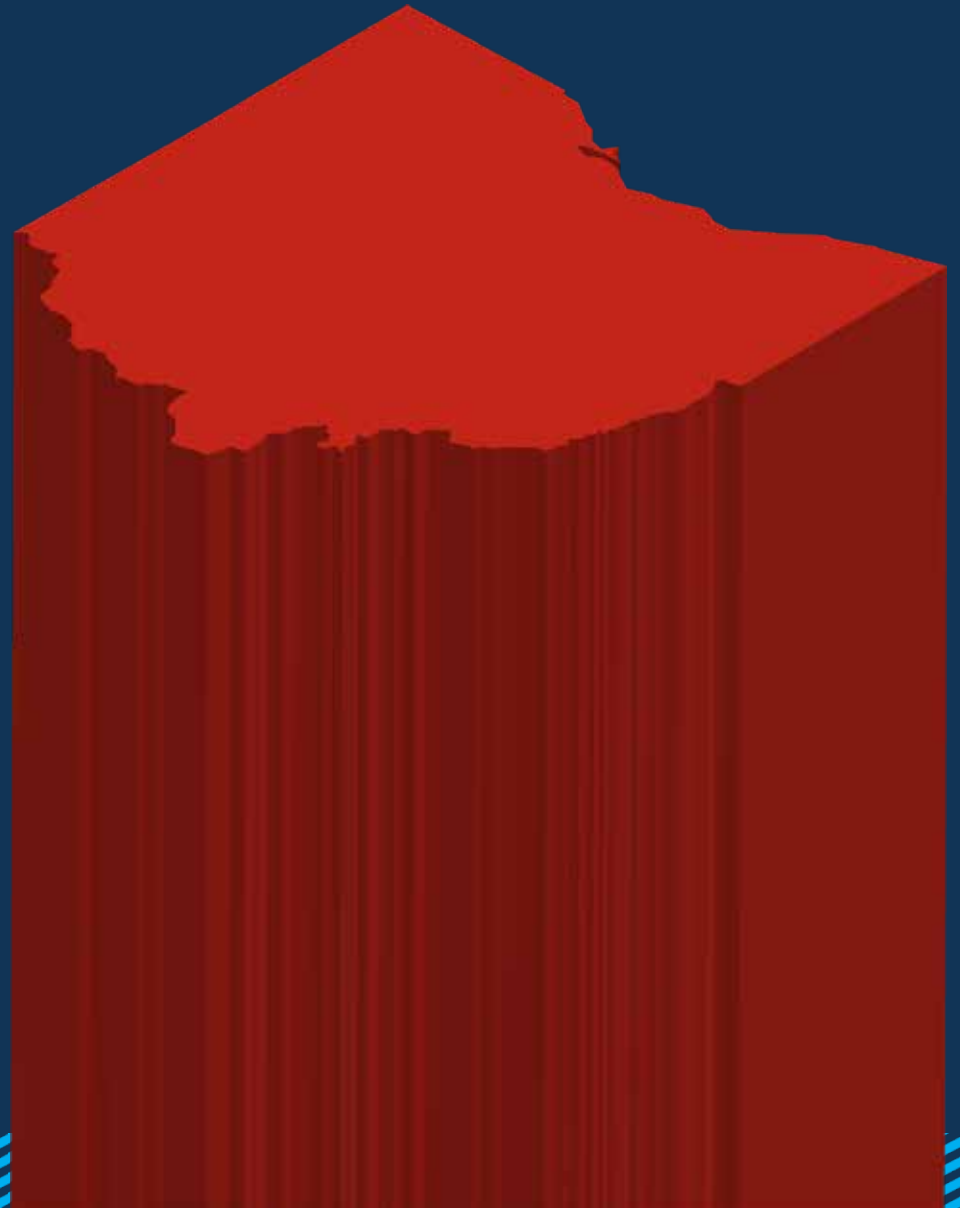
WHAT'S NEXT?

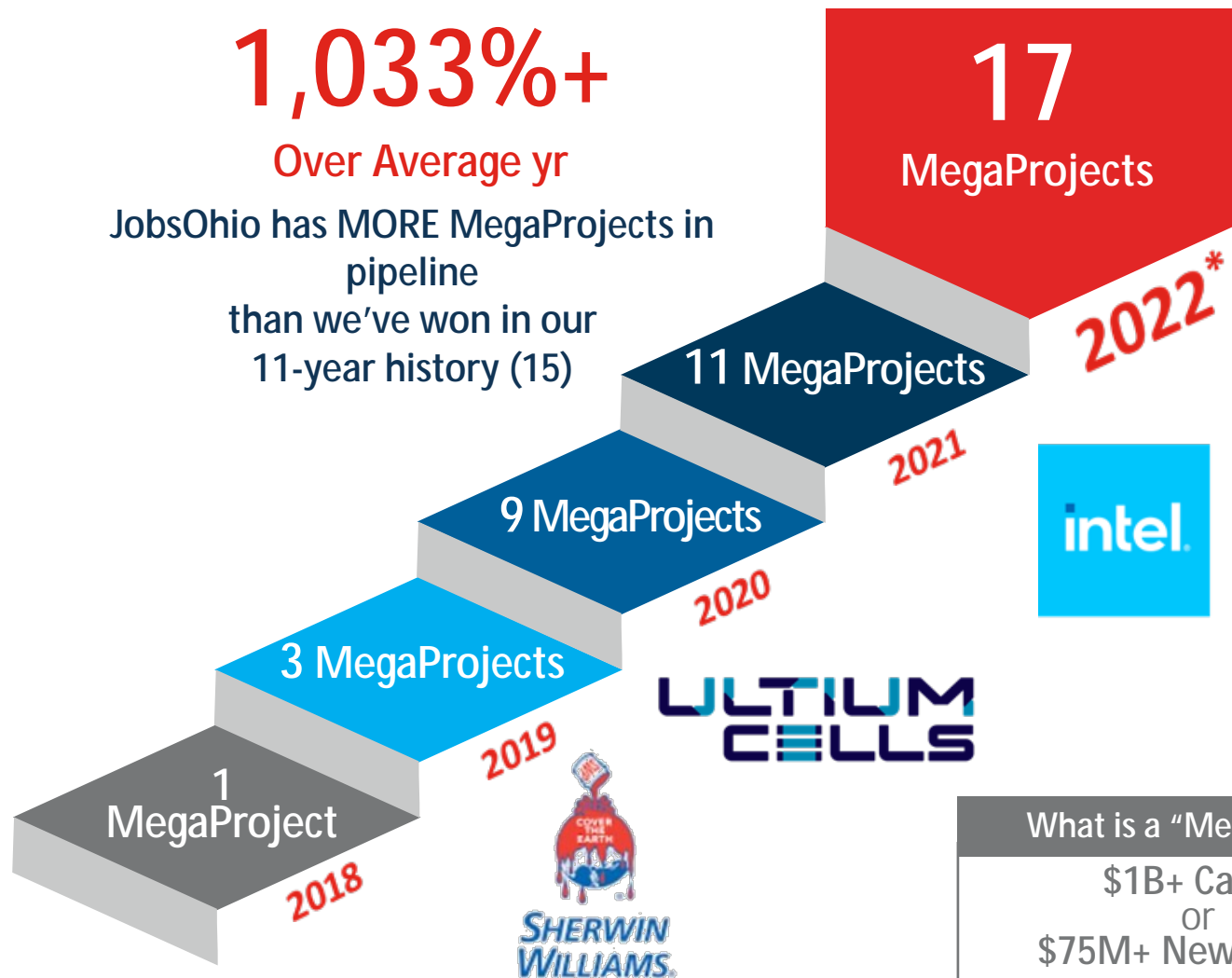2022 is shaping up to be another
Successful Year!

Regional Research as a Service

JobsOhio Network Partners have 15 researchers responsible for managing region-specific requests…

ONE COLUMBUS
- Jung Kim — jk@columbusregion.com
- Jay Knox — jkk@columbusregion.com
- Jennifer Gildow — jg@columbusregion.com
- Emily Phillis — ep@columbusregion.com

Team neo
- Jacob Duritsky — jduritsky@teamneo.org
- Sondra Palivoda — spalivoda@teamneo.org
- Abigail Logar — alogar@teamneo.org
- Sarah Lentz — slentz@teamneo.org

REDI Cincinnati
- Rosa Michaels — rmichaels@redicincinnati.com
- Jennifer Thomas — jthomas@redicincinnati.com

ddc | dayton development coalition
- Matt Shimp — mshimp@daytonregion.com
- Tyler Clogg — tclogg@daytonregion.com

RGP Northwest Ohio
- Patrice James — pjames@rgp.org
- Summer McVicker — mcvicker@jobsohio.com

Ohio Southeast Economic Development
- James Woodward — james@ohiose.com

JO provides > $0.6M/year to JON Research

For research specific to a geographic region of Ohio please contact one or more of the staff by region