

Ohio's Broadband & 5G Sector Partnership Workforce Asset Map Dashboard

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BroadbandOhio



Program

Welcome

- Background
- Process Overview

Dashboard Introduction

- Research Questions
- Phase 2 Developments

Demonstration

- Contents & Data Details
- Customization

Closing Thoughts

- Contact Information
- Q&A Discussion



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Mapping Workforce Assets

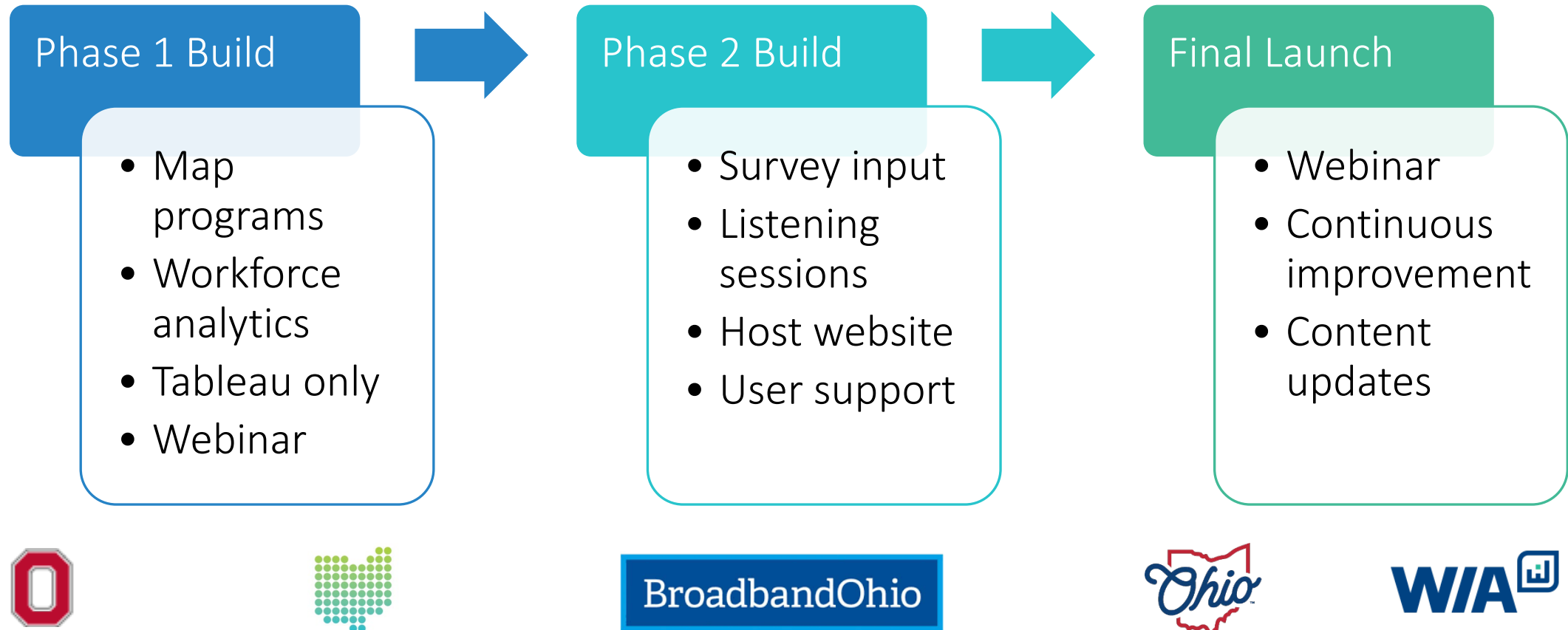
- Purpose:
 - Easy access to Workforce Development Resources at the Region Level
- Audience:
 - Workforce Development Professionals
 - Employers
 - Node Partners
- Goal:
 - Provide comprehensive, up-to-date information that's easy to access for all users



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Development Process



Research Questions

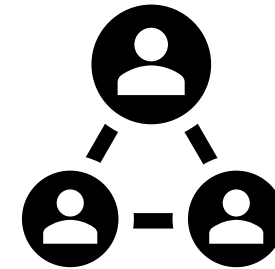
WHERE ARE BROADBAND &
5G TRAINING PROGRAMS IN
OHIO?



WHAT ARE WORKFORCE
TRENDS IN THE BROADBAND
& 5G SECTOR?



WHAT OHIO REGIONAL
RESOURCES ARE AVAILABLE
NEAR ME?



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Recent Changes



Expanded current dashboard content based on the resources in each Node region



Engaged with key stakeholders to gather data and input



Refreshed data, visualizations, and hyperlinks



Enhanced dashboard capacity and user interface

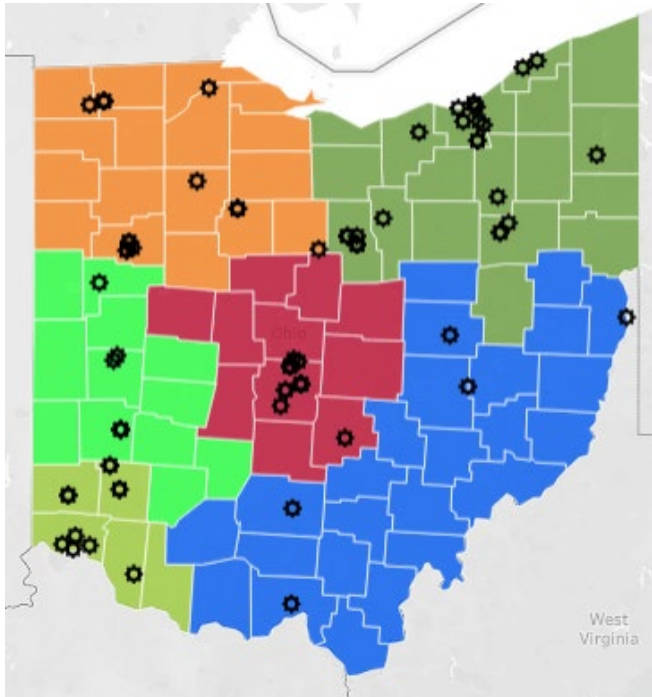


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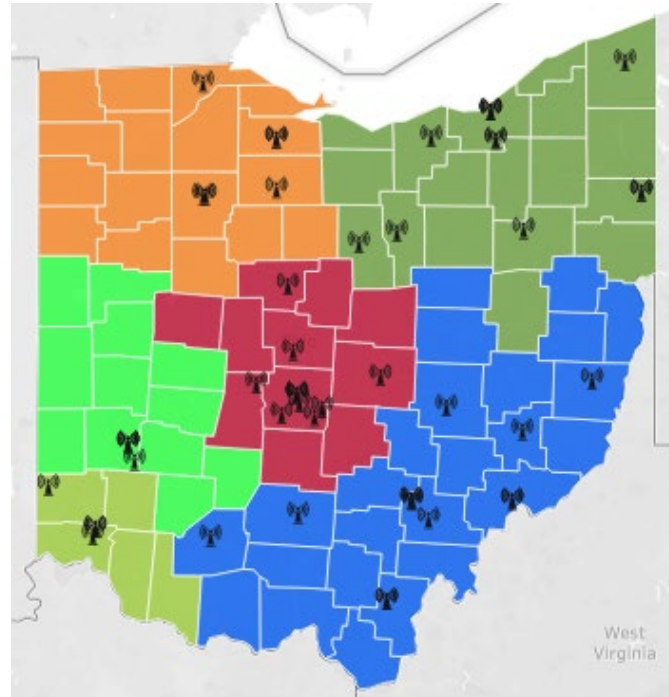
Visualizing Connectivity

BB & 5G EDUCATION & TRAINING PROGRAMS



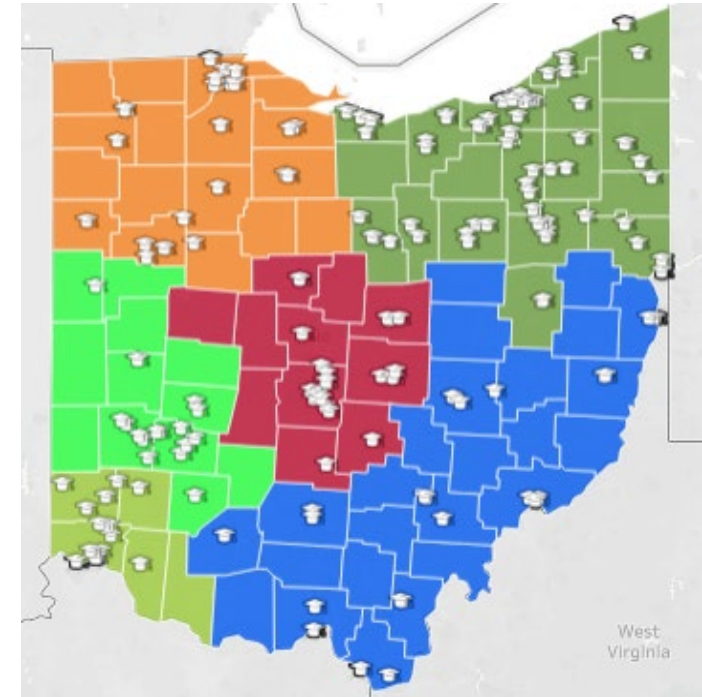
Source: Administrative Data from Broadband & 5G Sector Partnership and Smartsheet

APPRENTICESHIPS



Source: Ohio Department of Job and Family Services with ApprenticeOhio

ALL OHIO INSTITUTIONS WITH BB & 5G AFFILIATED PROGRAMS

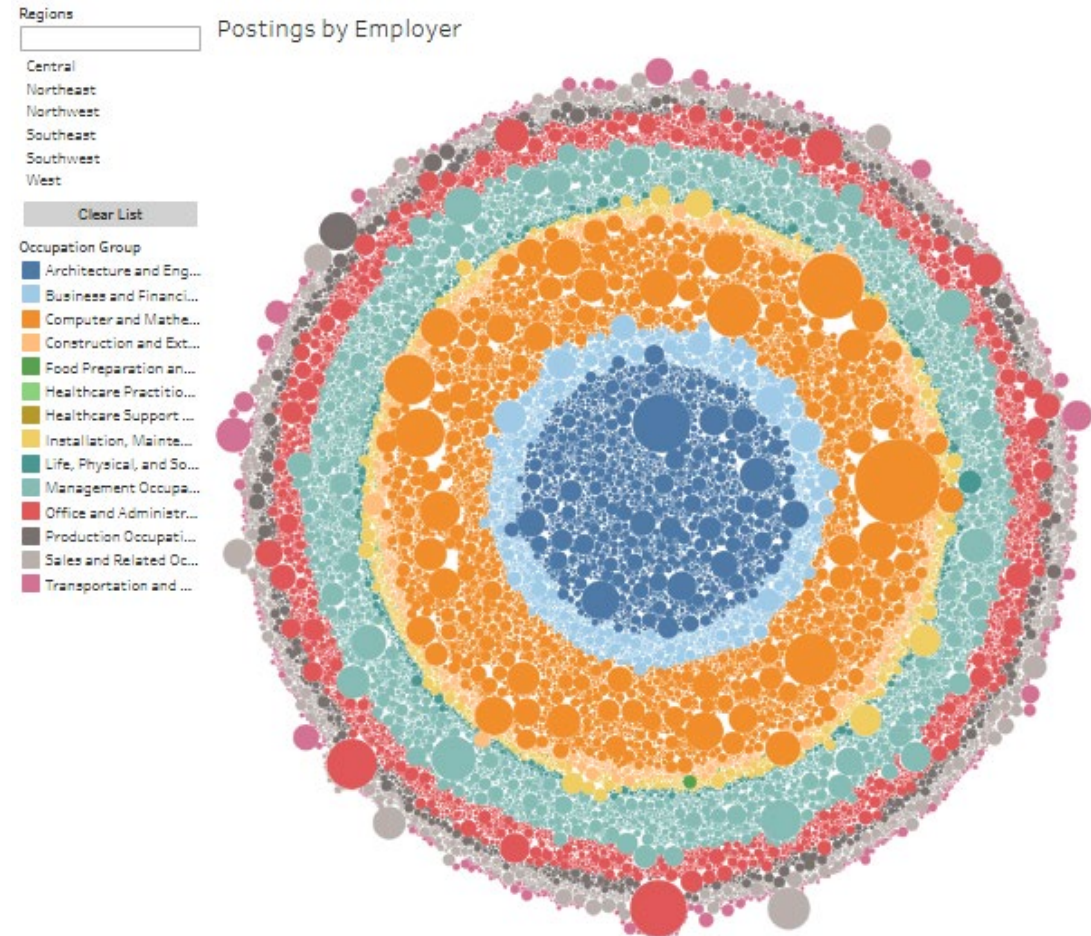


Source: Integrated Post Secondary Education Data System (IPEDS) and curated SOC & CIP codes

Visualizing Connectivity

Job Postings By Employer

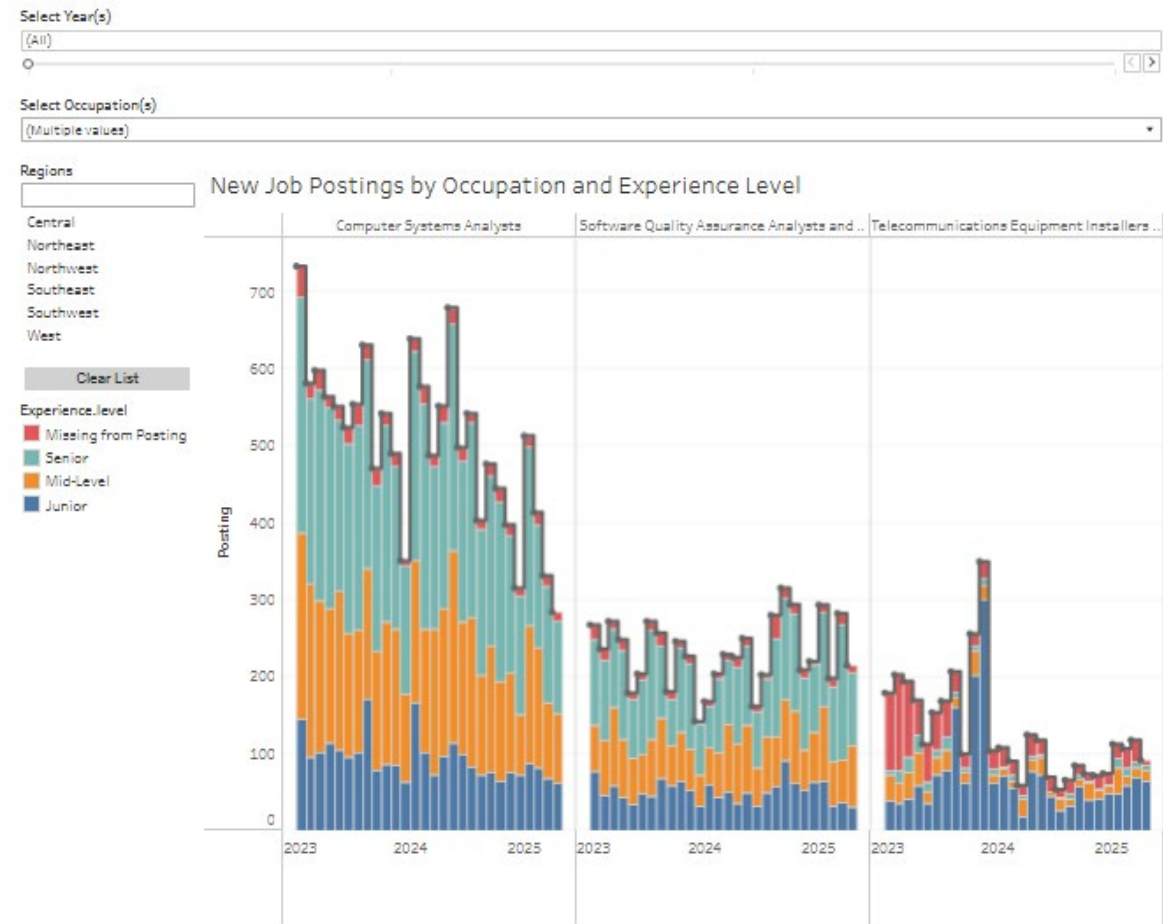
- Displays unique job postings by employer for 2024
- Bubble size = posting count
 - Color = 2-digit occupation group
 - Region filter available
 - Tabular data for employer and JobsOhio region included below the visualization
 - *Source: Talent Neuron*



Visualizing Connectivity

Longitudinal Job Metrics Trends

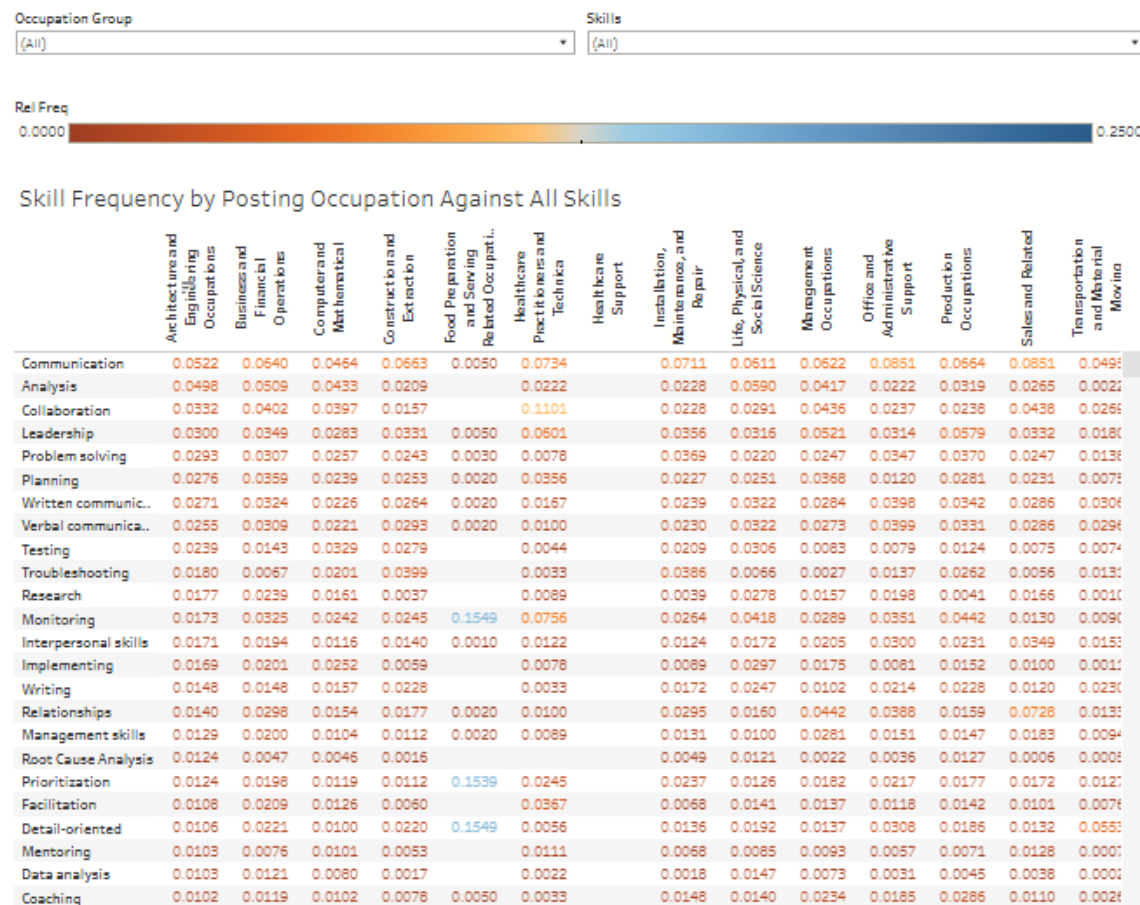
- Monthly unique job postings by “first seen” date
 - Separated by required experience level
 - Organized by occupation, experience level, and year
 - Talent Neuron updated its education requirement classification
 - *Source: Talent Neuron*



Visualizing Connectivity

Skills Analysis

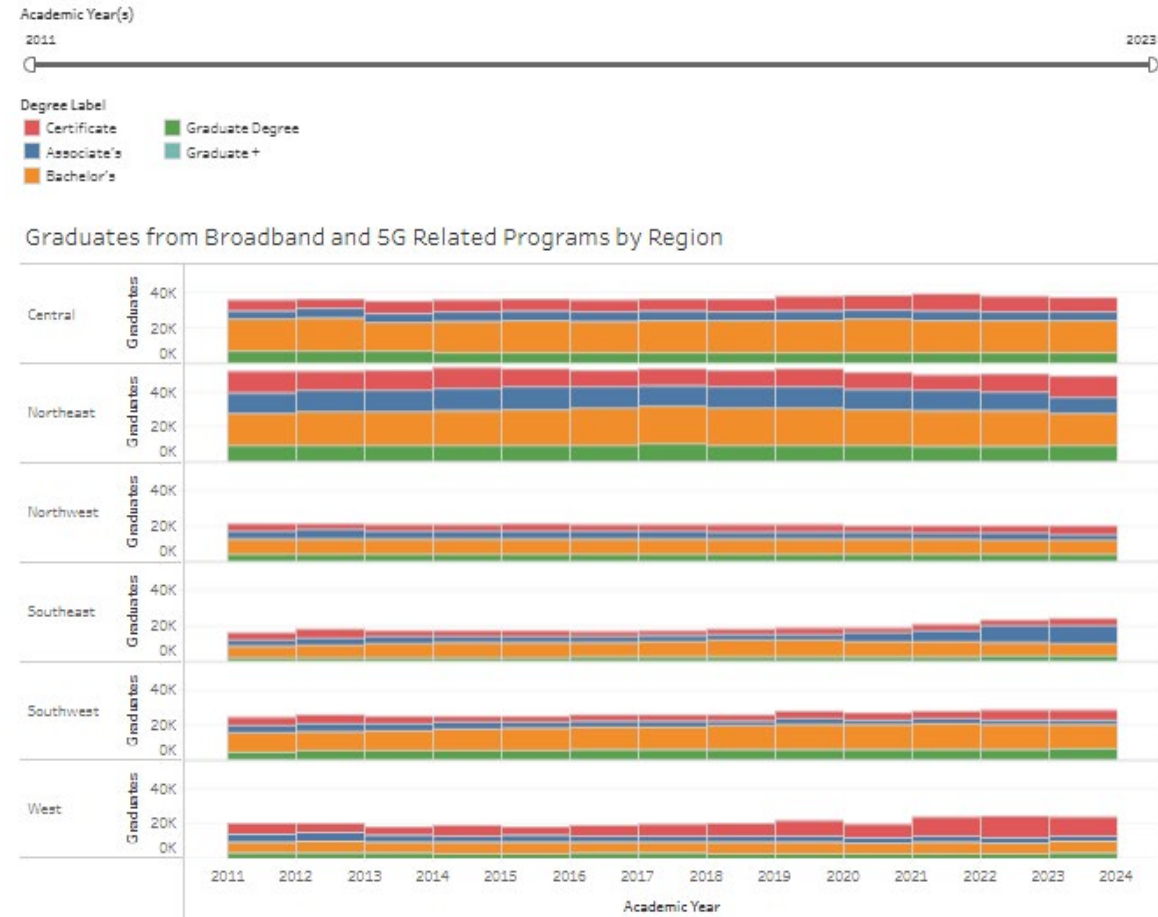
- Skill occurrence shown as a ratio of total job postings per occupation
 - Deduplicated across postings
 - Organized by 2-digit occupation category
 - Source: Talent Neuron



Visualizing Connectivity

Longitudinal Graduate Trend

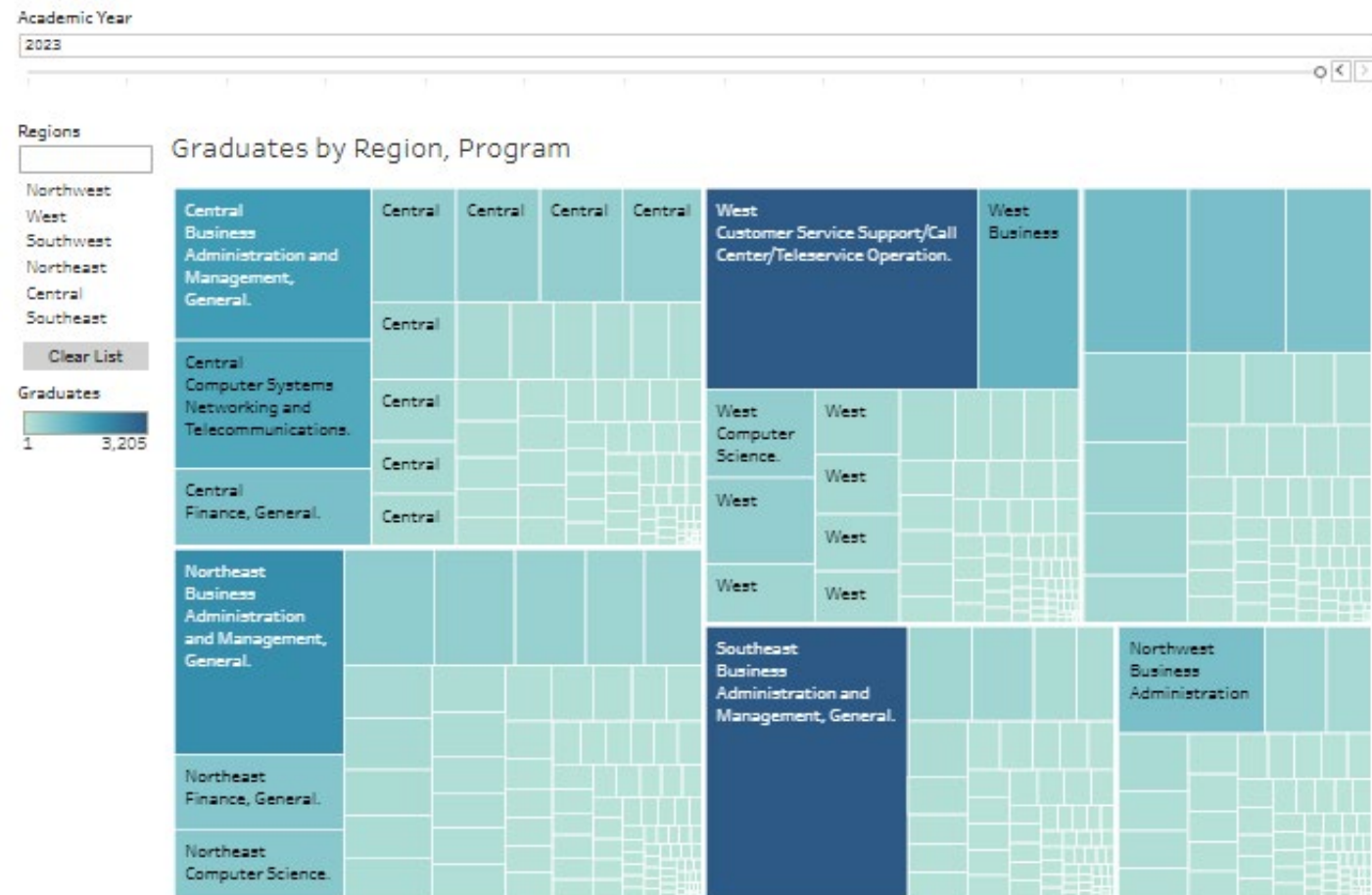
- Graduate counts from BB/5G-related CIP programs since 2011
 - Colored by degree level
 - Faceted by region and statewide view
 - *Source: IPEDS*



Visualizing Connectivity

Graduate Trends by Region and Academic Year

- Graduate Trends by Region and Academic Year
 - Graduate counts by region and CIP
 - Rectangle size and color gradient = number of graduates
 - *Source: IPEDS*



Data Details

Development Process

- Early contributions to Asset Mapping have been made possible with state-sponsored work since 2023
- Additional information added by **stakeholder engagement** with the BB & 5G Sector Partnership

IPEDS and Apprenticeships

- Data Analytics and Evaluation Working Group with SOC & CIP List development
- Ohio Department of Job and Family Services with ApprenticeOhio

Talent Neuron Job Postings Data

- Access provided by Ohio Department of Job and Family Services
- Each job posting:
 - Tagged by Talent Neuron with an average of **14 skills (subject to change)**
 - **Deduplicated** by OERC for postings without a discernable Ohio county, and repeat-postings are removed, given Talent Neuron tagging

Programmatic and Administrative Information

- Provided by Smartsheet tracking from Ohio Broadband & 5G Nodes
- Longitudes and latitudes pulled from US Census GeoCoder



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Region Profile Customization



Welcome to the Northeast Node!

The Northeast Node network is focused on expanding the broadband & 5G infrastructure through regional partnerships. Our members offer flexible training programs and are committed to helping people gain the skills they need to thrive in the broadband workforce. Our collective efforts support the implementation of Ohio's Broadband and 5G Workforce Strategy by expanding career awareness, coordinating wrap-around services, and connecting job training with real opportunities across 18 counties. These counties include Ashland, Ashtabula, Columbiana, Cuyahoga, Erie, Geauga, Huron, Lake, Lorain, Mahoning, Medina, Portage, Richland, Stark, Summit, Trumbull, and Wayne. We support current/future college students, rural Appalachian residents, justice involved individuals, and high school students to ensure broad access to successful broadband careers.

Resources for Students

+ Looking to earn an industry-recognized credential?

+ What financial aid options are available?

+ Looking for support?

— How do I start mapping my career?

Click through the links below to plan your telecommunications career path!

- [Discover graduation trends of Ohio graduates in telecommunications fields](#)
- [Ohio Workforce Success Measures](#)
Explore results for people completing post-secondary training/education programs, and links to other career resources.
- [Students Exploring Careers](#)
If you're a K-12 student, begin planning your future today with this tool by OMJ to explore career options.

Latest News



New Fiber Broadband OptIC Path™ class!

View this LinkedIn post to learn about the next generation of fiber technicians at Youngstown State University.

New Fiber Broadband OptIC Path™ class!



Welcome to the Southeast Node!

The Southeast Node partnership is focused on empowering connectivity and driving innovation by creating career pathways to the broadband sector through strong community partnerships. These efforts aim to bridge communication gaps and promote connection globally. The collective effort aims to support the implementation of Ohio's Broadband and 5G Workforce Strategy. Our Node partners are focused on expanding career awareness, delivering education and training programs, and fostering communities to grow stronger together across 25 counties. Our region includes Adams, Athens, Belmont, Carroll, Coshocton, Gallia, Guernsey, Harrison, Highland, Hocking, Holmes, Jackson, Jefferson, Lawrance, Meigs, Monroe, Morgan, Muskingum, Noble, Perry, Pike, Ross, Scioto, Vinton, and Washington counties. [Explore our website to learn more!](#)

Resources for Students

+ Looking to earn an industry-recognized credential?

+ What financial aid options are available?

— Looking for support?

Check out these support services you may qualify for!

- [Child Care in Ohio](#)
The Ohio Department of Job and Family Services (ODJFS) offers financial assistance to eligible parents to help them with childcare costs while they engage in work, education, or job training.

Latest News



Visit the Southeast Ohio Website!

Visit Southeast Ohio's website to get connected to more resources and local partners.

Visit the Southeast Ohio Website!

OERC Points of Contact

Please feel free to reach out with questions!

Role/Name	Contact
Dashboard Content	bb5g@chrr.osu.edu
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OHIO EDUCATION RESEARCH CENTER