Making Sense of the Noise

Economic, Labor, & Recruitment Trends





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Economic, Labor, & Recruitment Trends



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Economic, Labor, & Recruitment Trends

pandologic.com/labormarketinsightsreport-Q22022





Economic Overview

Labor Market

Labor Market Breakdown

Recruitment Marketing





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Recruitment Marketing





Economic Overview

Recession | GDP | Inflation | Policy

Labor Market

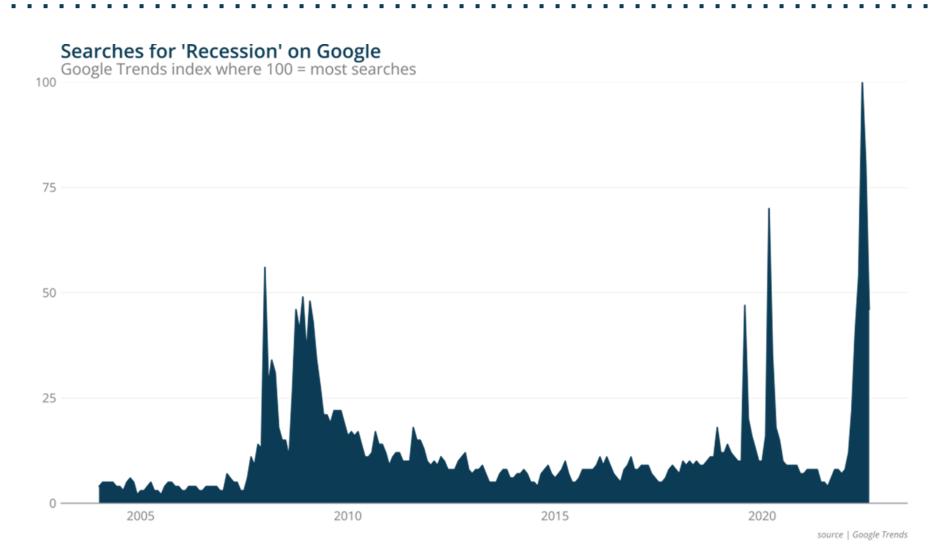
Labor Market Breakdown

Recruitment Marketing





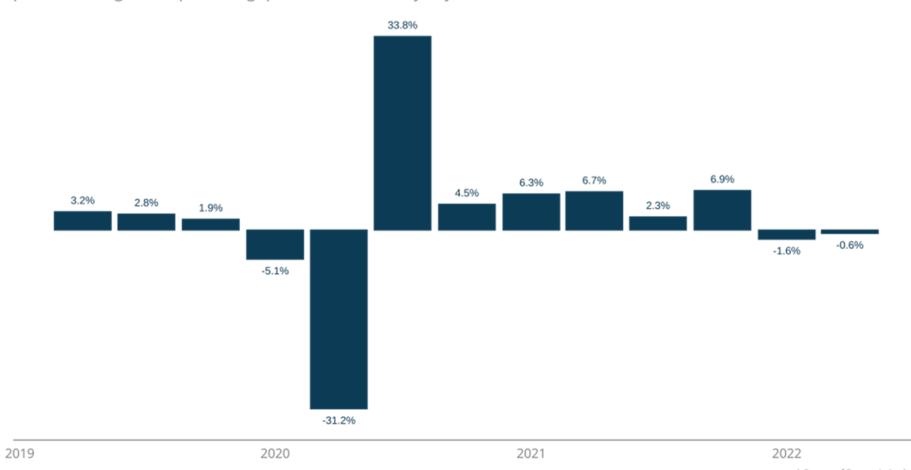
The question of 2022...are we in a recession?



Officially...no, at least one has yet to be declared

Real GDP Declines in 2022

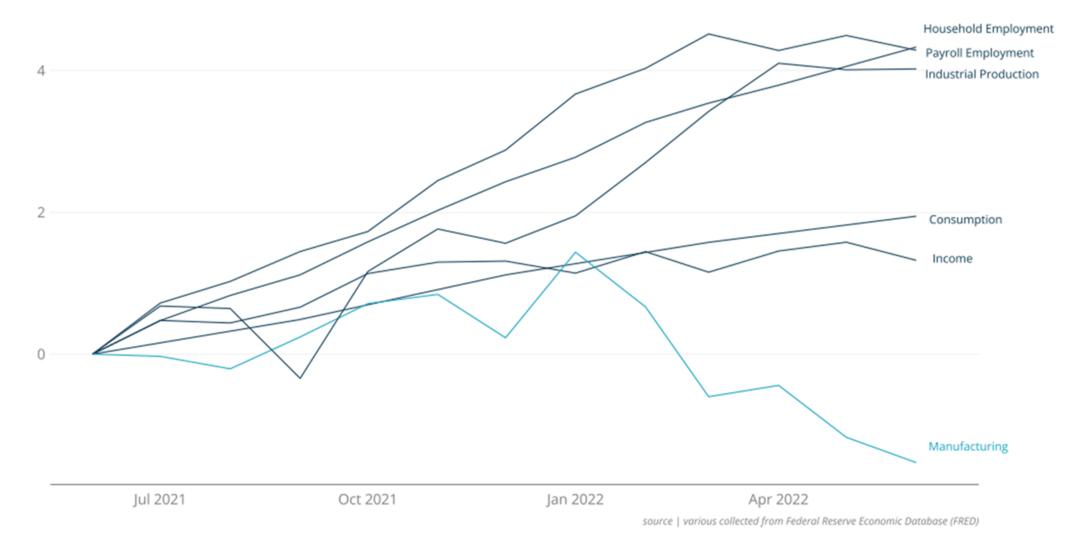
percent change from preceding quarter at seasonally adjusted at annual rates



Are we in recession? In spite of economic challenges, labor market indicators have been a source of strength in recent quarters

Selected NBER Economic Indicators

cumulative percentage change relative to June 2021



Economic Overview

Recession | GDP | Inflation | Policy

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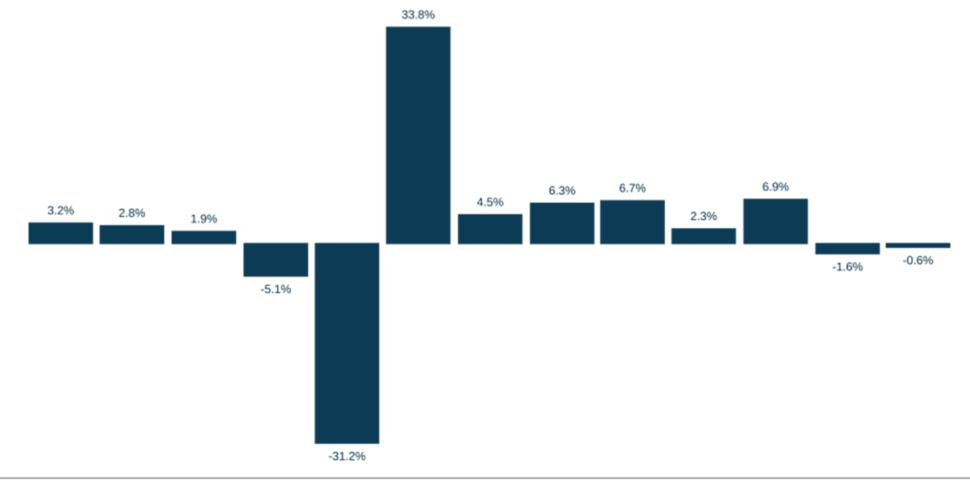




Q2 data suggests that the economy shrank at an annualized rate of 0.6%

Real GDP Declines in 2022

percent change from preceding quarter at seasonally adjusted at annual rates

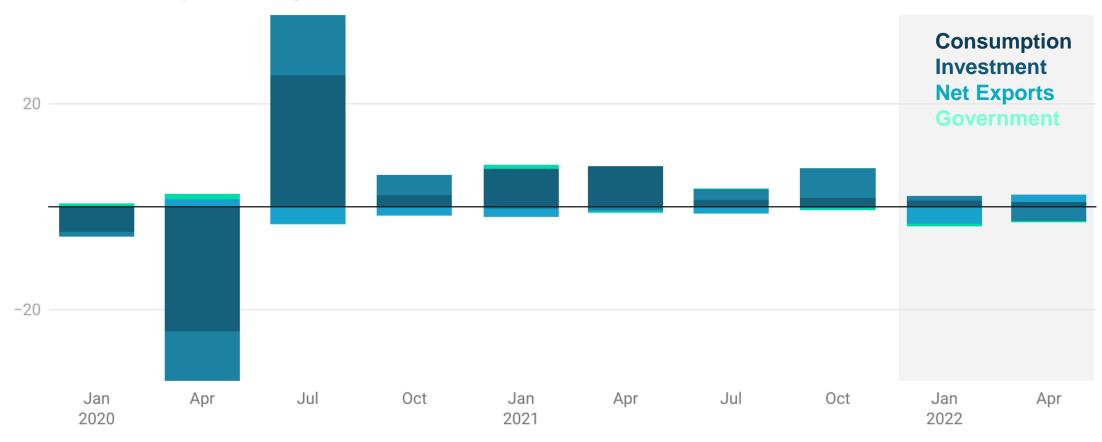


2019 2020 2021 2022

Of course, the details matter with swings in consumption and investment over the past year

GDP Component Contributions

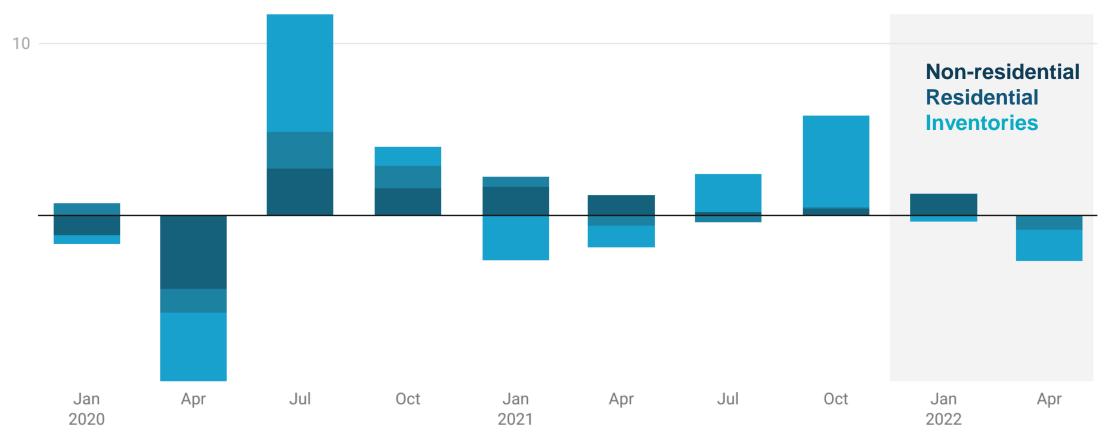
contributions to the percent change in GDP



Of course, the details matter with swings in consumption and investment over the past year

Business Investment Contributions

contributions to the percentage change in GDP business investment



Economic Overview

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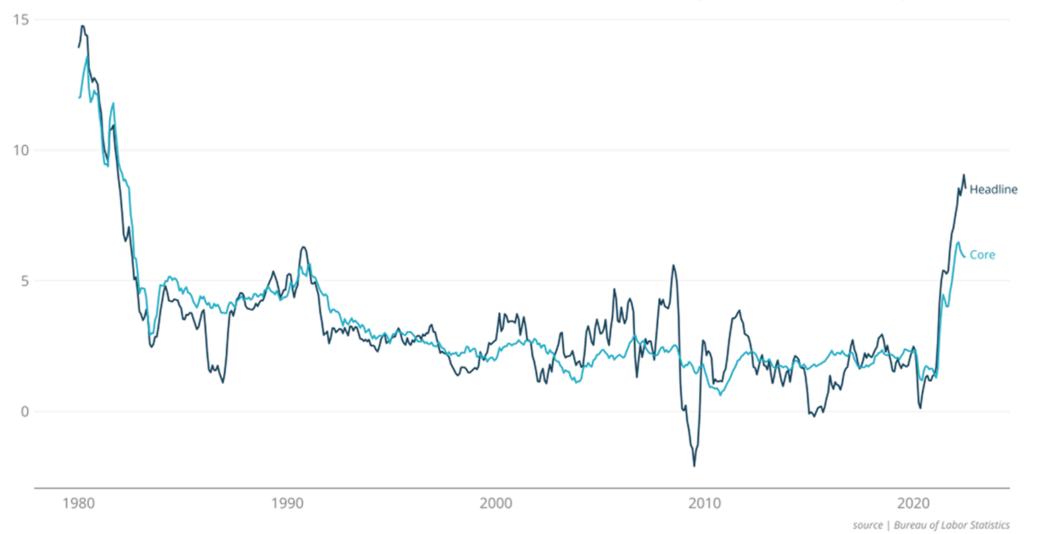
Recruitment Marketing





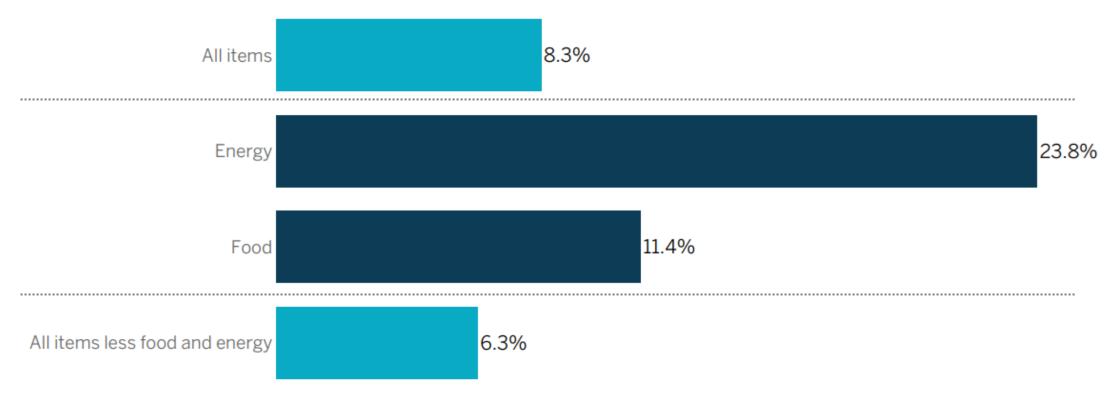
Inflation rates rise to forty-year highs

US Inflation Hits Forty Year High headline inflation (all items CPI) vs. core inflation (all items less food and energy CPI) | annual % change



About 20% of the year-over-year inflation is linked to food and energy price changes

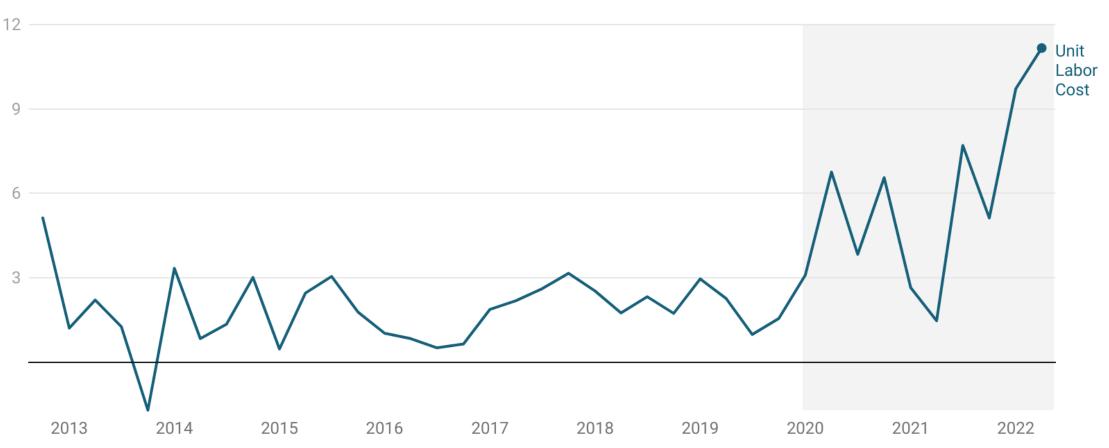




Supply side pressures, such as labor costs, have contributed to the inflation challenges in addition to demand side factors

US Unit Labor Costs

annual percent change



Economic Overview

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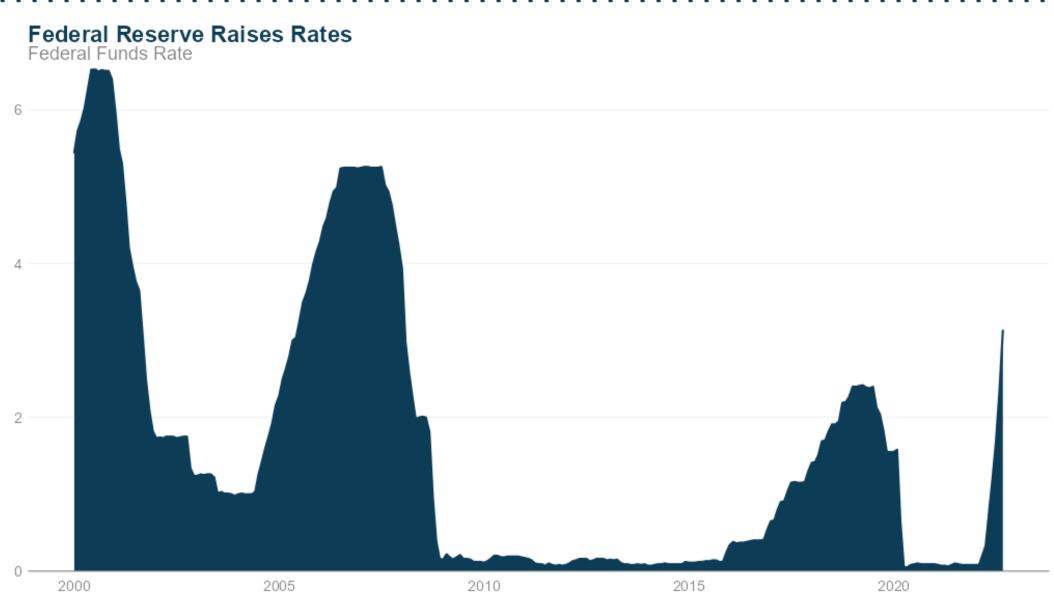
Labor Market Breakdown

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The Fed continues to raise interest rates to combat inflation



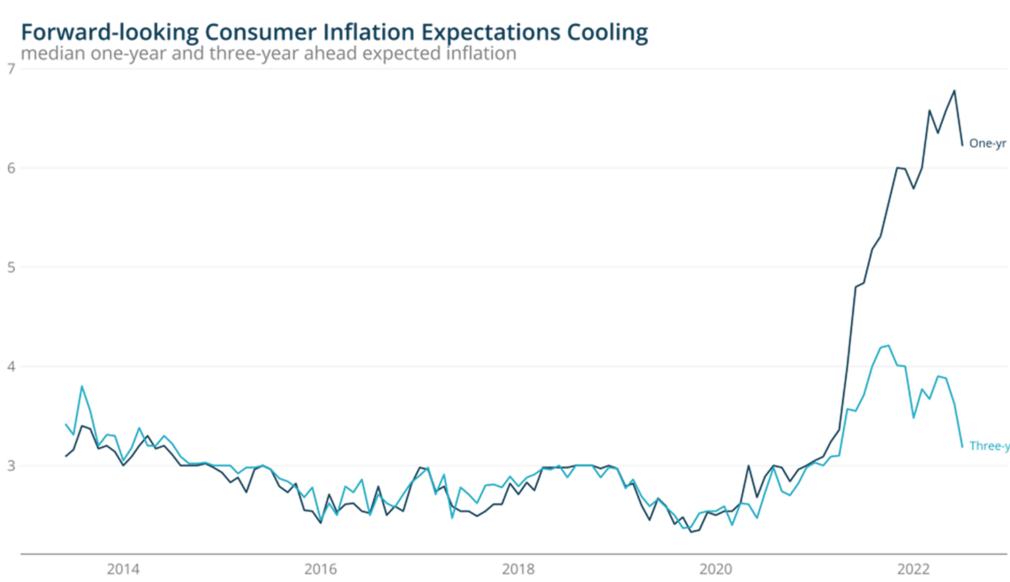
Why the delay and why the extreme response? A look at history...

Interest Rates + Inflation: a long run relationship

annual percentage change in all items CPI and the effective federal funds rate



Recent Fed moves are weighing into inflation expectations



Economic Overview

Labor Market

Unemployment | LFP | Job Openings |

Wages

Labor Market Breakdown

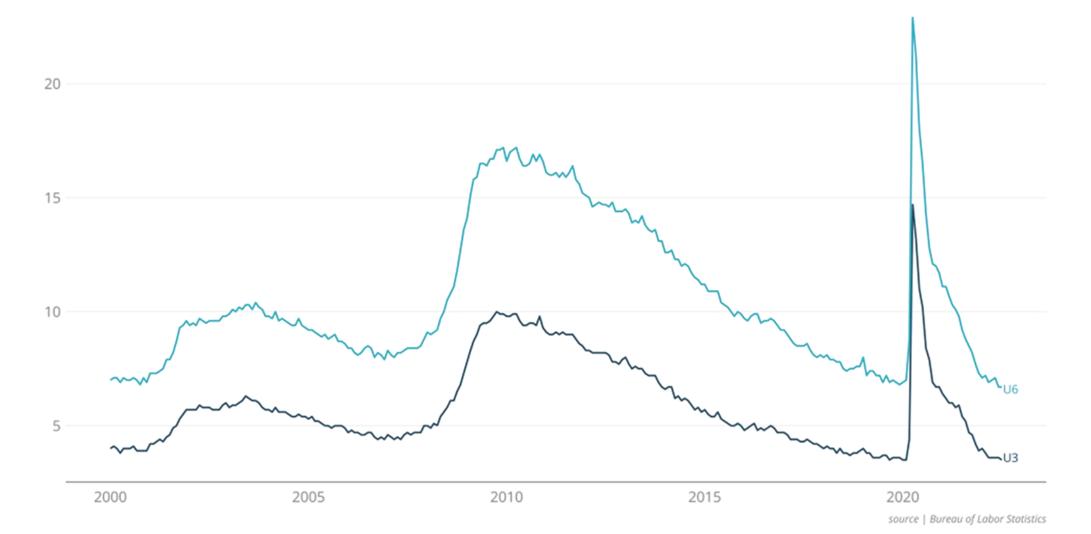
Recruitment Marketing





Low unemployment rates continue to be a sign of strength

Unemployment Rates Remain Near Historic Lows official (U3) unemployment rate vs U6 unemployment rate



Economic Overview

Labor Market

Unemployment | LFP | Job Openings | Wages

Labor Market Breakdown

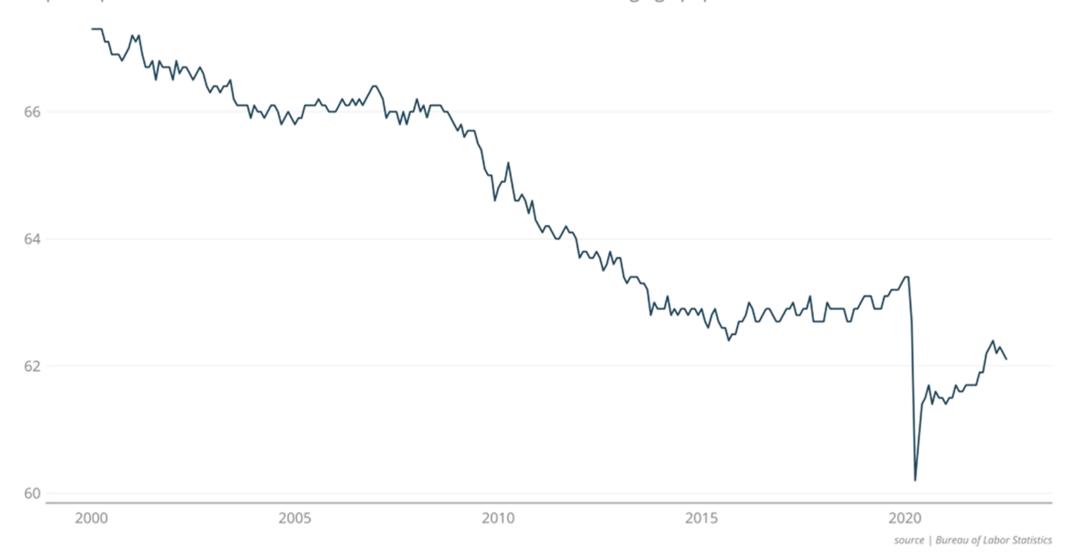
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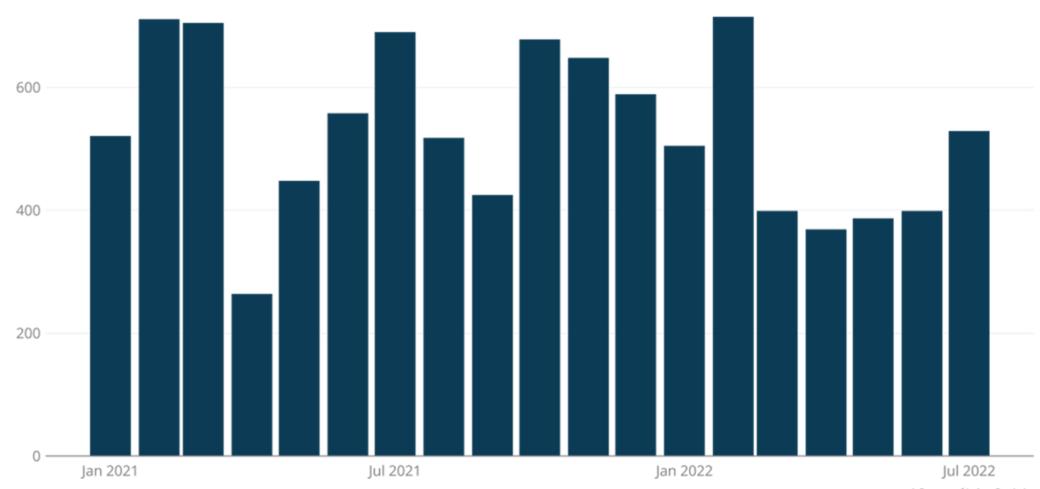
Labor force participation rate climbing back, but still short of prepandemic levels

Labor Force Participation Recovering to New Normal participation rate is the ratio of the civilian labor force to the working age population



Positive job growth has been the trend the past 2 years

Monthly Payroll Employment Remains Solid change in total nonfarm paryoll (in thousands)



Economic Overview

Labor Market

Unemployment | LFP | Job Openings | Wages

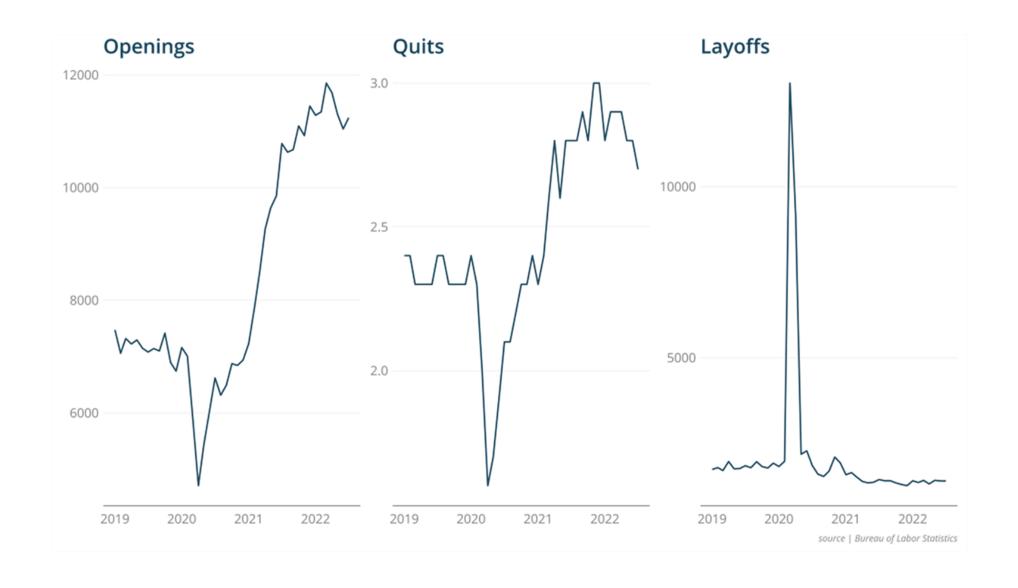
Labor Market Breakdown

Recruitment Marketing





Labor market movements + the "Great Resignation"



Economic Overview

Labor Market

Unemployment | LFP | Job Openings | Wages

Labor Market Breakdown

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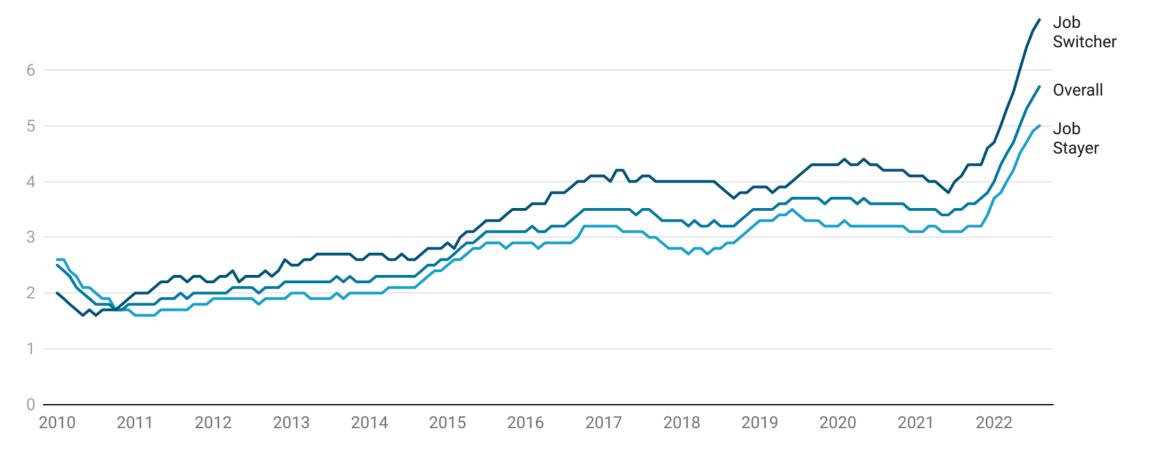




With high openings and quits, job switchers are receiving the most benefit

Wage Growth Tracker by Job Switcher/Stayer

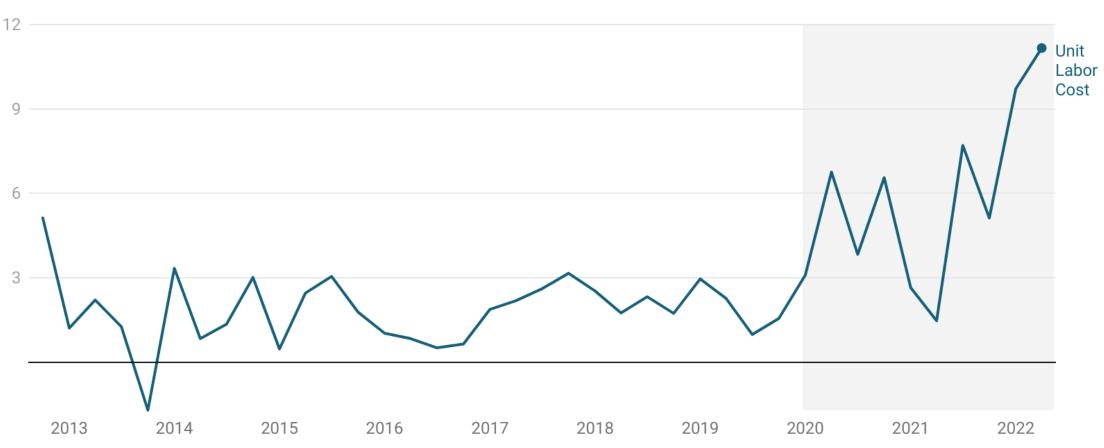
12-month moving average of median wage growth



Cost of labor is on the rise as inflation continues to climb

US Unit Labor Costs

annual percent change



Inflation has outpaced the growth of wages pulling them down in real terms

Real Wages Falling with Inflation median weekly real earnings for full time employed workers



Economic Overview

Labor Market

Labor Market Breakdown

Regional | Industry | WFH

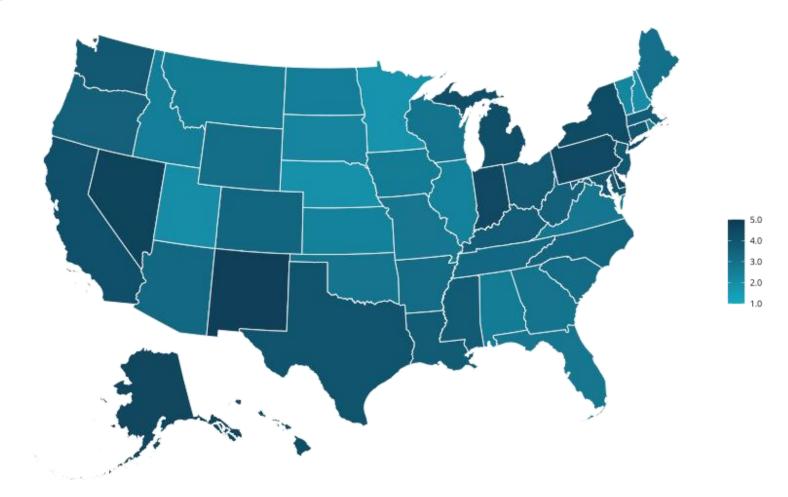
Recruitment Marketing





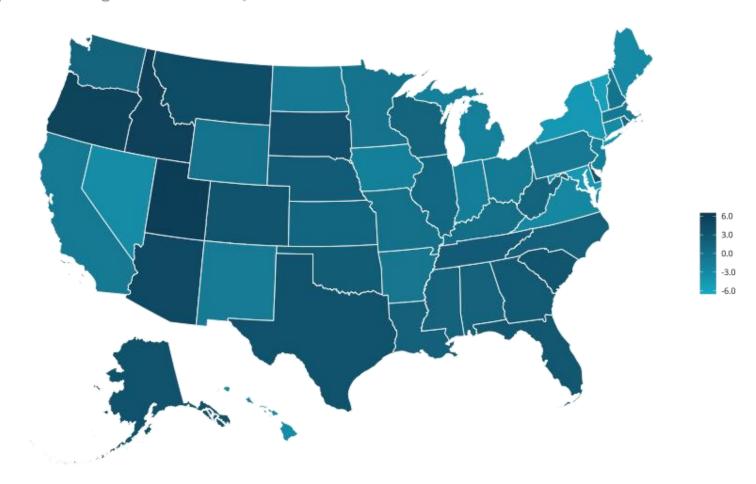
Low unemployment rates seem relatively consistent across a majority of states...

Unemployment Rate by State Jun'22



However, the bounce back from pre-pandemic levels is varied

Employment by State percent change from Feb'20 to Jun'22



Economic Overview

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Regional | Industry | WFH

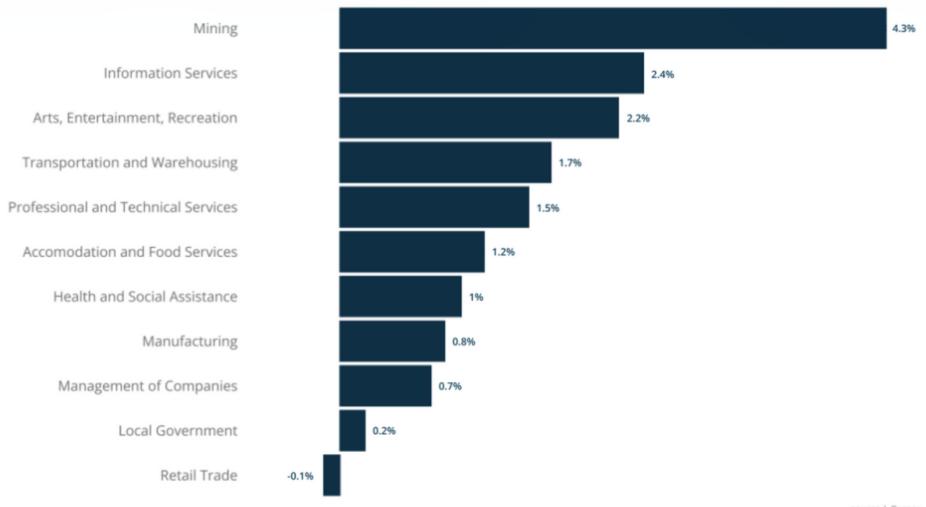
Recruitment Marketing



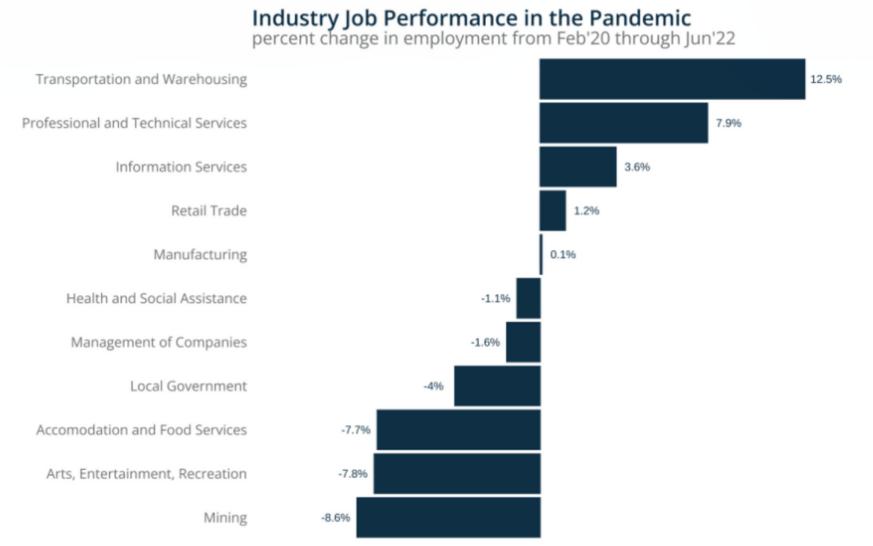


Most sectors across the economy posted positive gains...





However, comparing to pre-pandemic levels the sector experience is mixed



Overview

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Regional | Industry | WFH

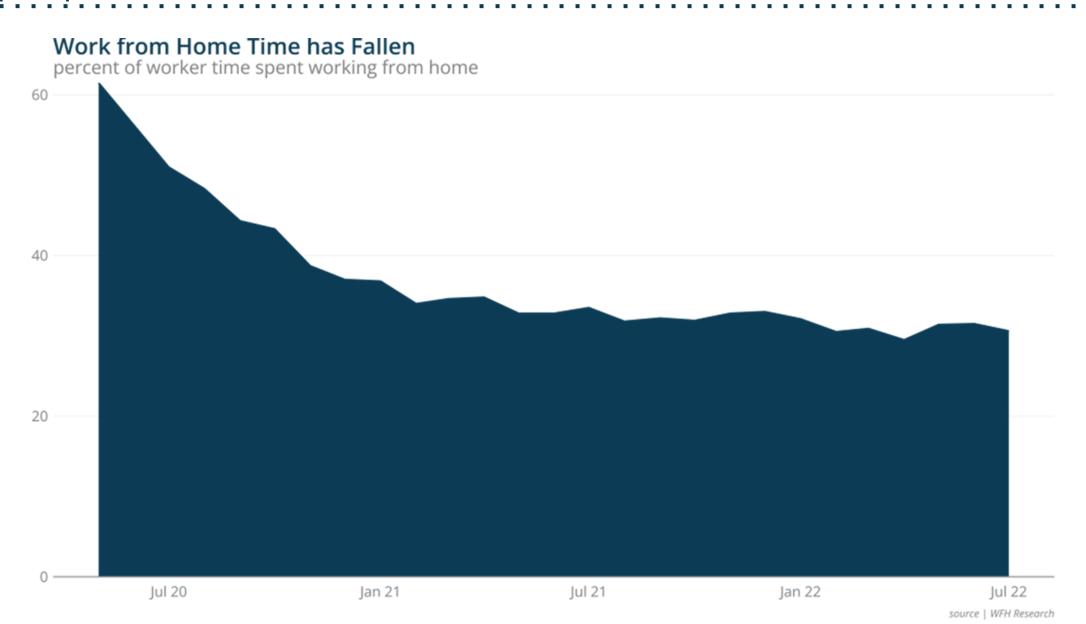
Recruitment Marketing

Key Takeaways

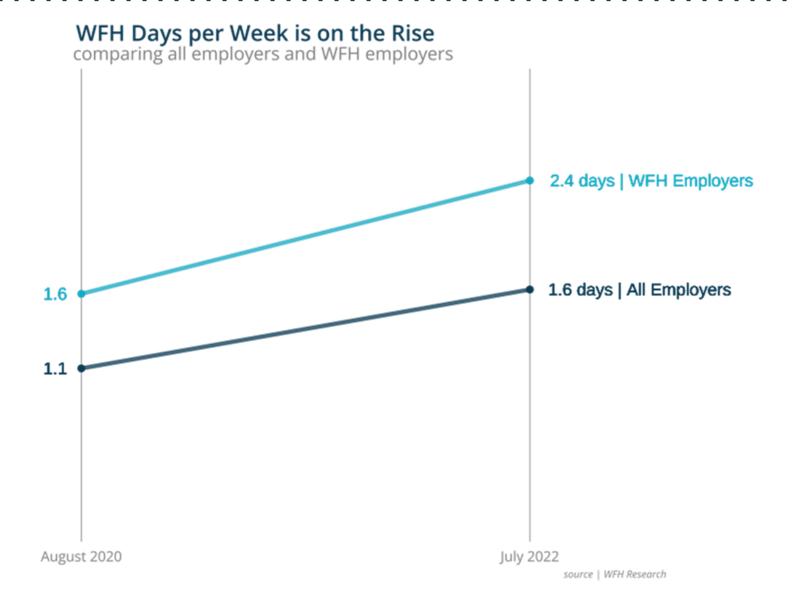




Work from home time falling as we settle into new normal above pre-pandemic levels



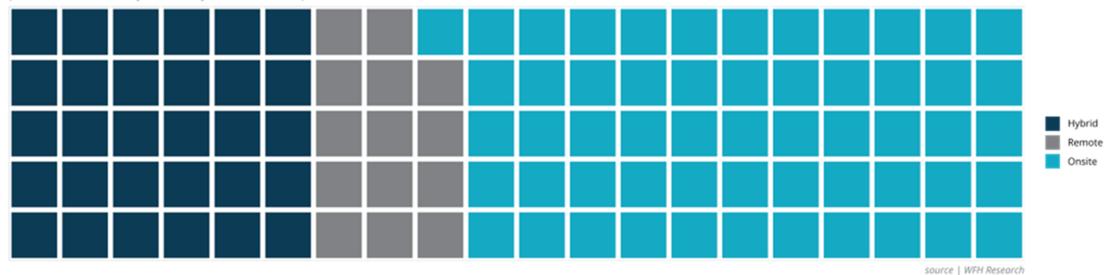
Average business plans for employees to increase WFH



Majority of workers are still working from the office

Majority of Workers Still Onsite

percent of workers fully remote, hybrid, and onsite | rounded



Overview

Economic Overview

Labor Market

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Recruitment Marketing

About PandoLogic | Key Metrics Overview | Recruitment Marketing Trends

Key Takeaways







- PandoLogic is the leading recruitment marketing and conversational AI platform in North America. Serving the world's most recognizable brands, PandoLogic utilizes advanced AI technology to transform the future of recruiting.
- PandoLogic's flagship product, pandolQ, is an Al-enabled talent acquisition platform that empowers employers to reach the right candidates on the right sites for the right price.
- Making more than 7,000 micro-decisions per minute, pandolQ **automates** and optimizes the complexities of job placements at **scale and precision** levels previously unattainable.





Overview

Economic Overview

Labor Market

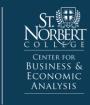
Industry Breakdown

Recruitment Marketing

About PandoLogic | **Key Metrics Overview** | Recruitment Marketing Trends

Key Takeaways





Key Recruitment Metrics

Cost per Applicant

CPA = Spend / Applicant Volume

Cost per Click

CPC = Spend / Click Volume

Conversion Rate

CVR = Applicant Volume / Click Volume





Overview

Economic Overview

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Labor Market Breakdown

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About PandoLogic | Key Metrics Overview |

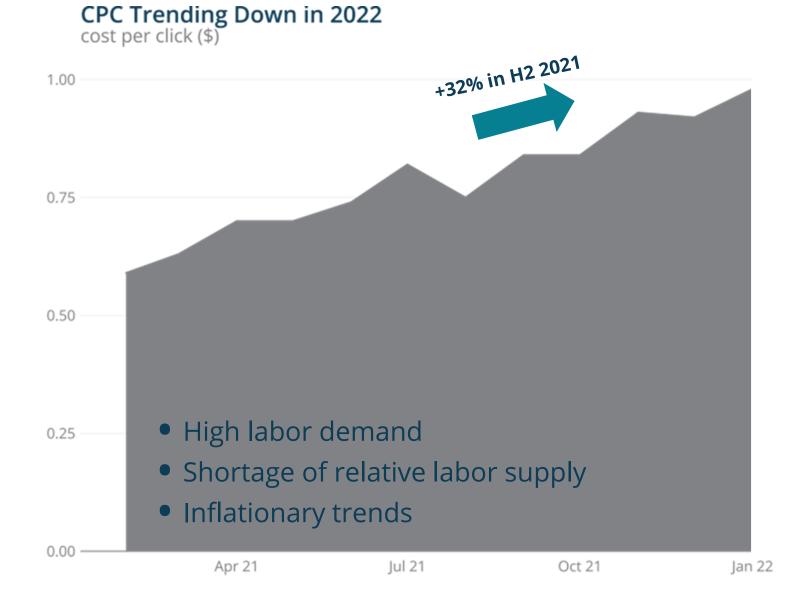
Recruitment Marketing Trends

Key Takeaways

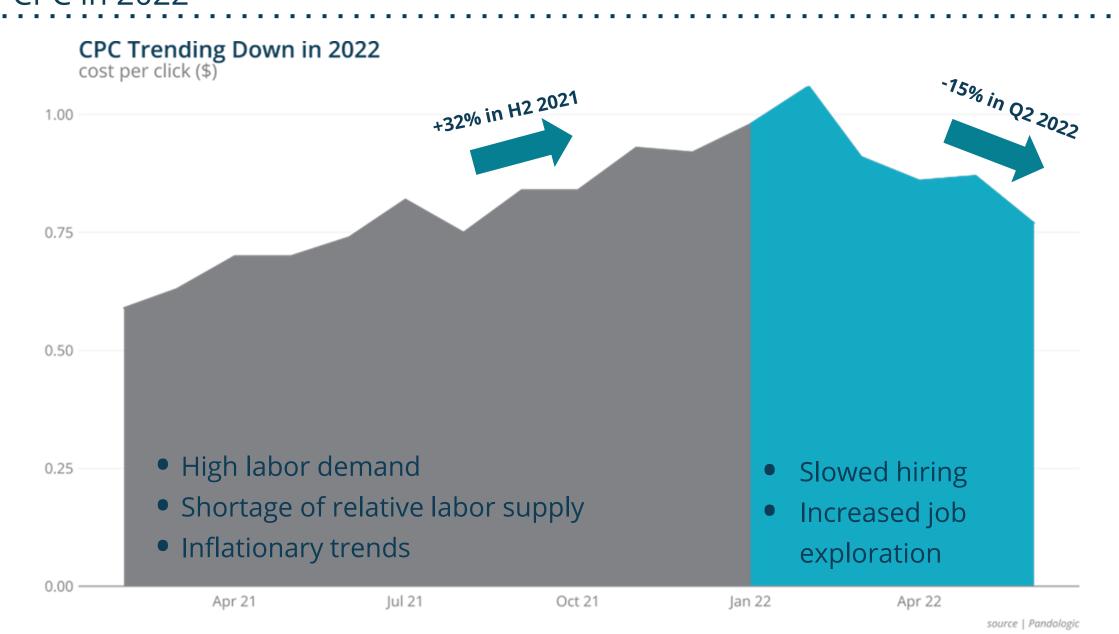




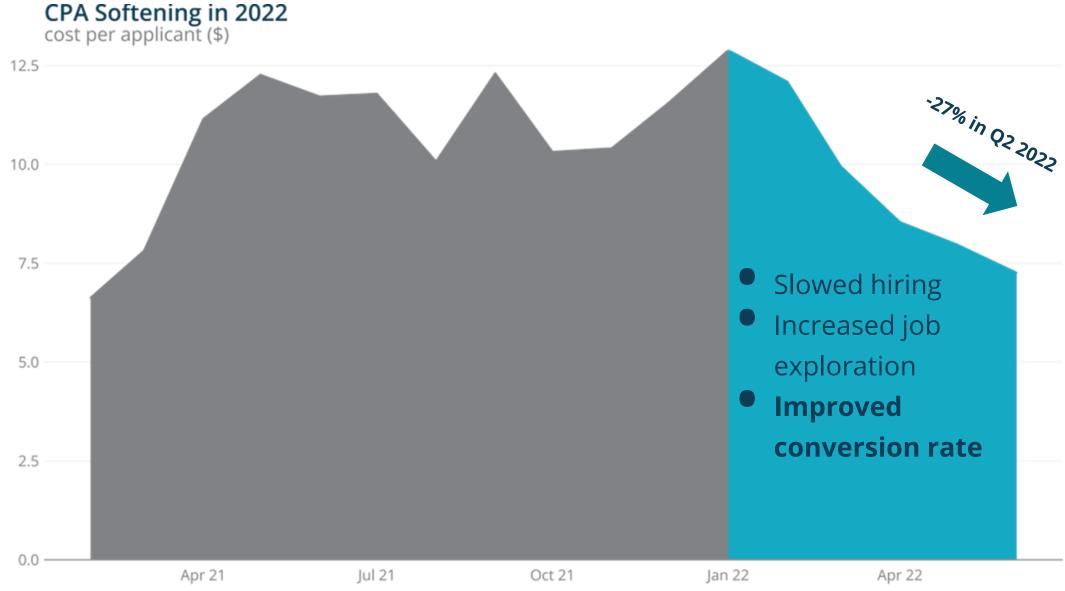
Tight labor market in 2021 led to rising CPC rates



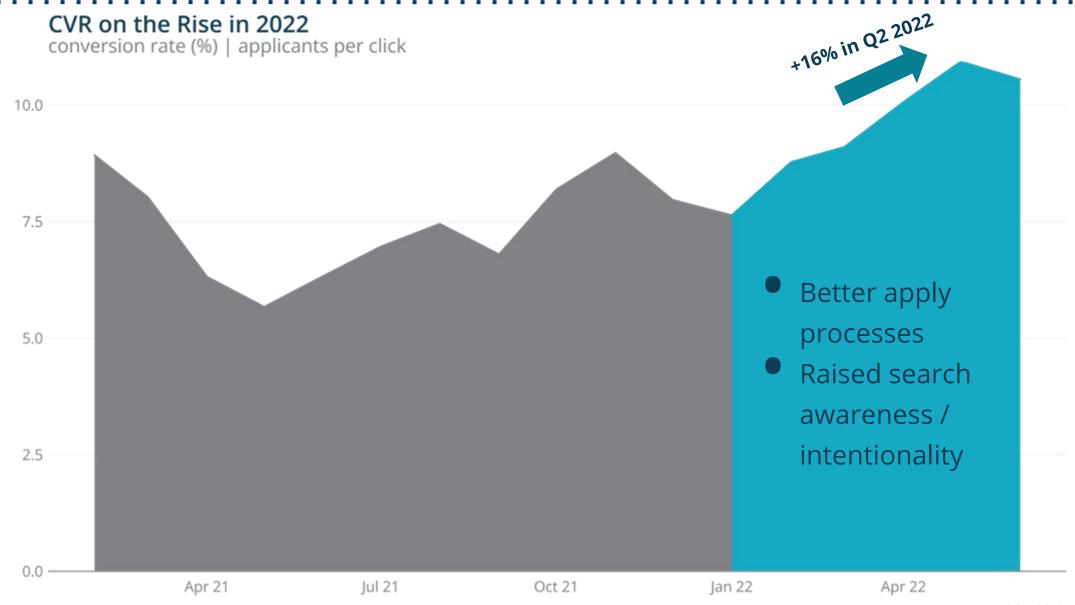
However, slowed hiring goals and more job exploration resulted in lower CPC in 2022



Smaller yet efficient hiring campaigns lowered CPA in Q2



Eased workflows and search awareness increased CVR



Overview

Economic Overview

Labor Market

Labor Market Breakdown

Recruitment Marketing

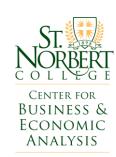
Key Takeaways





Key Takeaways





- At the macro level, inflationary pressure is the variable to watch, with the Fed committed to bringing that number back in line to prerecession trends
- Unemployment remains near lows as the labor force continues to recover, however, policy moves will likely put pressure on the labor market
- Most states are seeing historically low unemployment but participation and employment levels have not fully returned to pre-pandemic levels
- Data show strong growth in logistics and increasing permanence of work-from-home strategies, indicating a structural shift in how the economy functions
- Candidates are exploring the market, resulting in higher costs for clicks and applies. That being said, the intentionality and awareness in the exploration is resulting in stronger click to apply rates year to date.
- With competition squeezes and a persistent demand, employers have adjusted by slowing hiring goals, and invested in sources that have optimized and improved workflows.

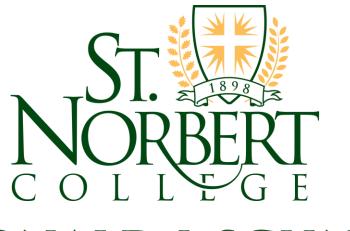
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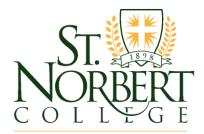
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SCHOOL OF BUSINESS & ECONOMICS





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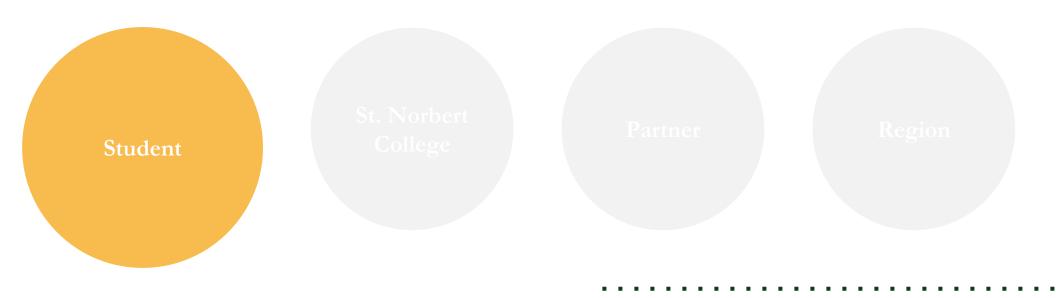


Major In Data Analytics



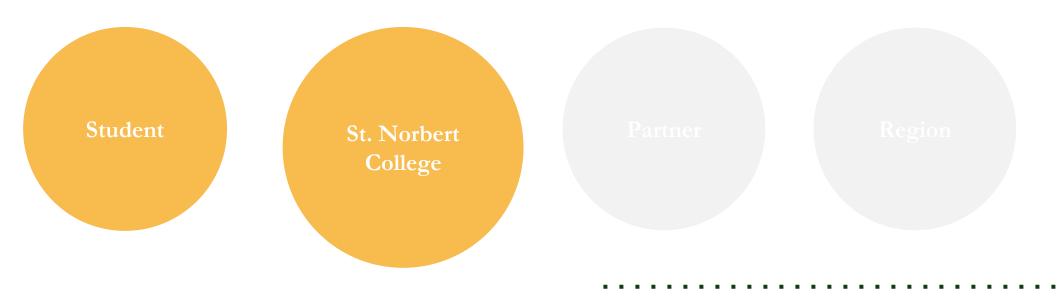






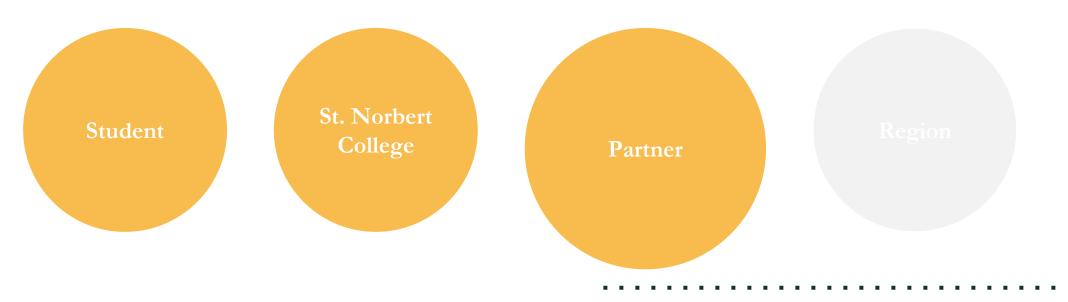






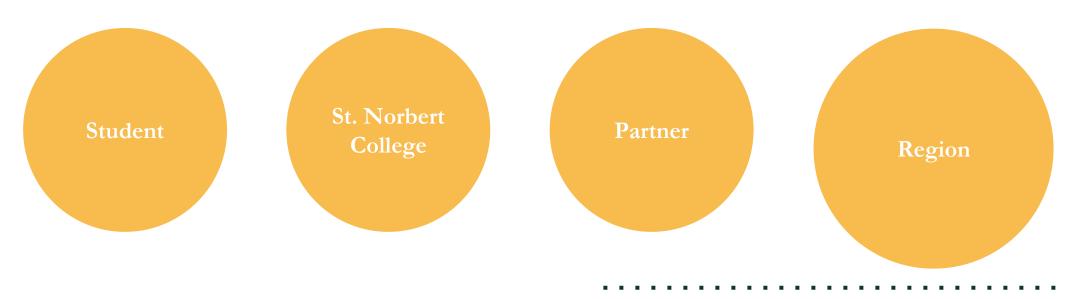


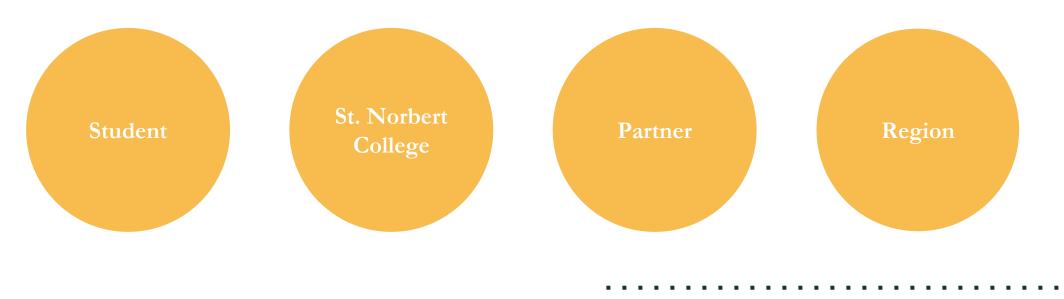












Opportunity







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The Numbers



ECONOMIC ANALYSIS

35 Number of completed projects

45 Number of presentations given

30 Number of media engagements

52 Student fellows over eight academic years



CBEA Research Analyst Fellows



Lydia Brosig



Helen Bui



Greta Gaworek



Thomas Gatesman



Evan Glaser



Casey Jepson



Abigail Krueger



Devon Linssen



Michael Schneider



Sydney Spaeth



Sarah Swan



David Vandenberg

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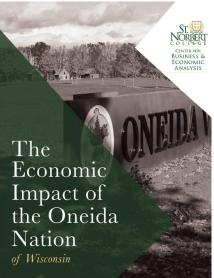


Selected Presentations (AY21-22)

- On Site Company & Organization Presentations
 - Constellation Energy Group
 - Amerhart
 - Leadership Green Bay | Greater Green Bay Chamber
 - Green Bay & Allouez Optimist Clubs
 - Estate Planning Council NE WI
- Regional Presentations
 - Wisconsin DOR, DOT + New North (multiple)
 - New North | Board of Directors
 - InDevelopment Conference | Insight Magazine
 - Brown County | Brown County Supervisor
- Signature Presentations
 - CBEA State of the Economy
 - CBEA + Pandologic Labor Market Insights







The Economic

Impact of the

Correctional

St. Norbert College
The Donald J. Schneider School of Business & Economic

Institution Site

of the Green Bay





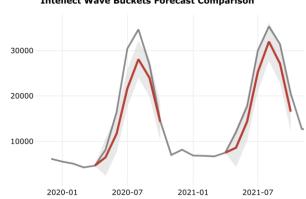




4.4 Forecast Performance

Testing the forecast for bucket products specifically see a similar comparison as above. In 2020, the forecast underestimates the summer peak again, but in 2021 the forecast gives a much more accurate prediction while still being conservative in nature.



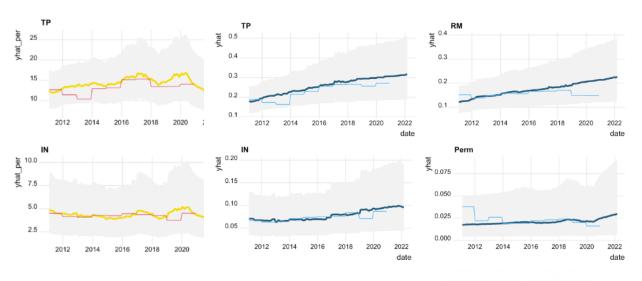


It, used in ly in 2021. d in Q2, ad risen more ithium, the onentially in m hydroxide Recordmismatch ions in affects t \$39,250 per

90% Cobalt Lithium Carbonate 413% Lithium Hydroxide 254%





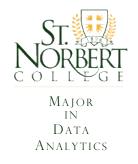




Major In Data Analytics



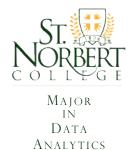
The Numbers



- 3rd year of data analytics program
- 1 st data analytics major will graduate in May '23
- 25 Current number of students declaring data analytics major
- Active faculty members across four disciplines teaching major requirements



Data Analytics An Interdisciplinary Approach



Business & Economics

Provides an understanding of the reality in which a problem exists

Computer Science

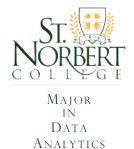
Provides an environment in which data products are created.

Mathematics & Statistics

Provides the theoretical structure in which data science problems are examined



Data Analytics An Interdisciplinary Approach



Business & Economics

Provides an understanding of the reality in which a problem exists

Data Analytics

Computer Science

Provides an environment in which data products are created.

Mathematics & Statistics

Provides the theoretical structure in which data science problems are examined



Start Up

Current
Phase

Growth









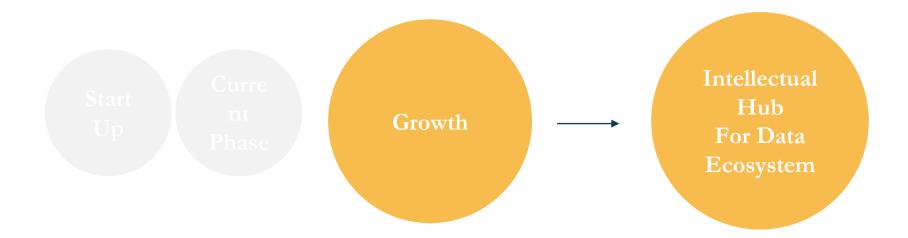
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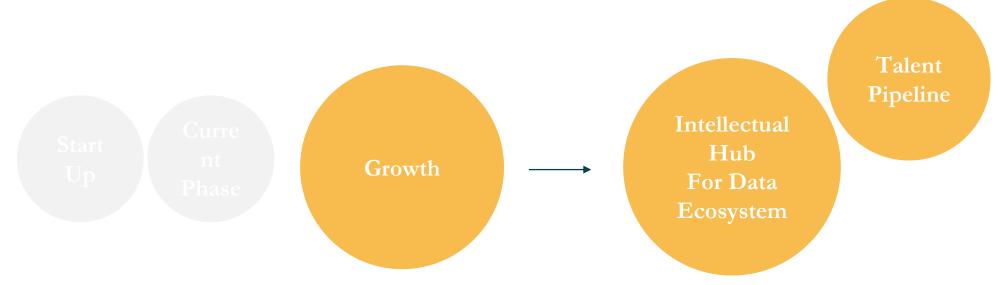
Major In Data Analytics



PARTNERS

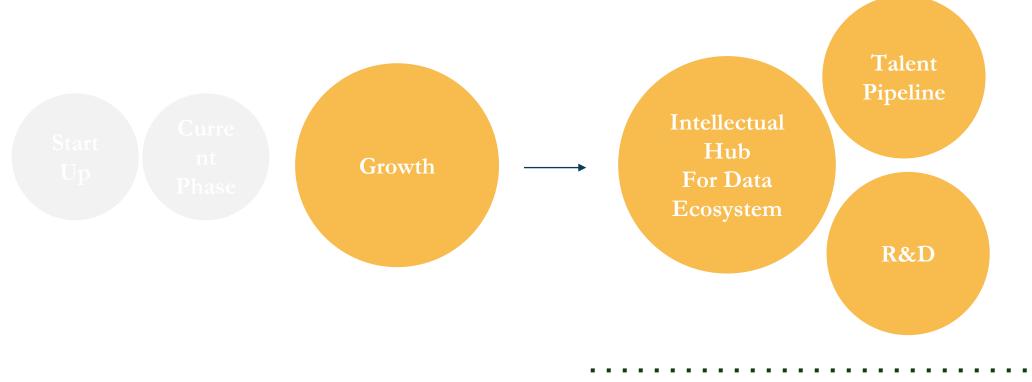


Future (Potential) Initiatives



Future (Potential) Initiatives





Future (Potential) Initiatives

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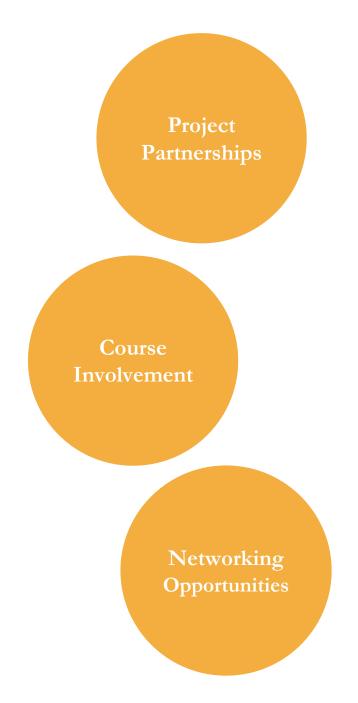




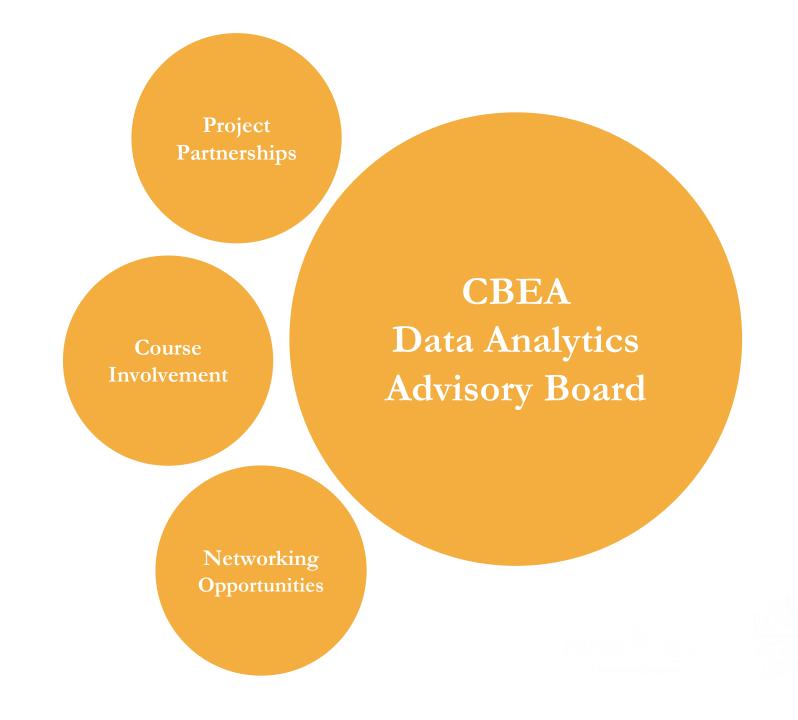


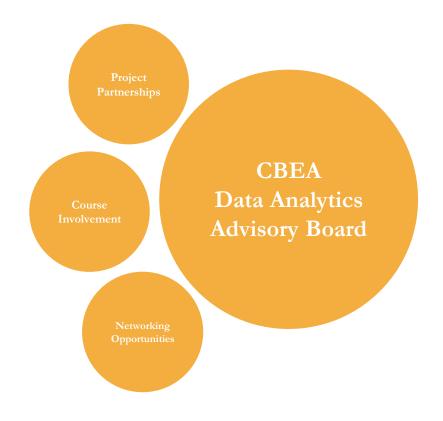














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Next Steps...