Who is Going to do the Work?

While developed nations battled for decades for high end labor, a demographic crisis has pushed us into shortages of all jobs.

What can the country, and industries do to head off this crisis, if still possible?

Agenda

- 1.Background
- 2. Current Labor Crisis
- **3.Labor Pools**
- 4.Who is going to do the work?
- 5.Factors affecting young people choosing careers
- 6.Employer/Society Solutions

Background

In the Demographic Drought: Bridging the Gap, we showed that while there are not enough workers for **all** levels of jobs, the larger issue was the looming lack of people to do the very jobs that keep our country running.

To this end, in the Summer of 2022, Tallo and Lightcast surveyed **1,500 high** school and college-age students and found that while they are more aware of and do not overwhelmingly harbor negative feelings for the trades or community colleges, they still generally plan to go the 4-year route and pursue careers more commonly associated with a bachelor's degree.

Key Takeaways

Roughly 85% of our respondents* indicated that they intended to pursue a 4-year degree at some point with another study from 2021 showing about 55-60% intended to pursue a 4-year degree

Most recent data shows around 63% of high school graduates immediately enroll in post secondary programs.



Key Takeaways

2 out of every 3 native born young people are eventually planning to get a 4 year degree so...

Who is going to do the work that keeps the country fed, protected, and cared for?



The Demographic Effect

How we got to our destination will forever affect our future

Higher birth rates and women entering doubled our workforce growth

College Enrollment jumped 100% from 1965 to 1975 and continued to soar for women



Boomers generated massive household wealth gains





Source: US Census Bureau 2021

And then the Boomers exploded into retirement ages around 2002

Baby boomers born: **1946-1960** [Ages: 62–75] U.S. avg retirement age: **63** [official retirement age: 66] We are at the tail end of peak baby boomer retirement: **10K/day**



40M

30M

In 2016, Millennials became the largest generation in the labor force

Note: Labor force includes those ages 16 and older who are working or looking for work. Annual averages shown.



Source: Pew Research Center analysis of monthly 1994-2017 Current Population Survey.



The number of working prime age men continued to plunge



Source: BLS

Current labor crisis



64%

Source: BLS, CPS

out

The 55+ cohort left the labor force at a much higher rate than the others, and millions may stay

About three million <u>workforce dropouts</u> say they don't plan to return to pre-Covid activities - wfhresearch.com, WSJ, Apr 16, 2022

Age	Labor Force Change	Excess Not in the Labor Force	
16-24	972	681	
25-54	1,686	-111	
55+	-473	3,525	
Total	360	4,095	

Compared to Feb 2020*

All data in k's

Source: Lightcast analysis of US Census Current Population Survey and Bureau of Labor Statistics data

*16-24 not in labor force compared to same month 2019 due to extreme seasonality



Current Labor Crisis



Source: BLS, Current Population Survey, Seasonally Adjusted: February 2022



The U.S. is highly educated

And more educated people have a higher labor force participation rate

9M Less than a High School Diploma 4% Participation Rate

> **36M** High School Graduates 58% Participation Rate

36M Associates Degree 63% Participation Rate

64M Bachelors Degree and higher 73% Participation Rate

45M with no college education

100M with college education

Source: BLS, CPS Table A-4

Roughly 6M of the 10M open jobs in America

need to be filled by people without a college degree

37% of people out of the labor force are those with a high school diploma.

Only 12% have a bachelors.

Unemployment rates for most college degreed jobs are low but not close to record low levels.

~2.5M

unemployed with no college education

10M total open jobs 4.5M total unemployed

Source: BLS, JOLTS, Lightcast Analysis



In 2015, we had three times as many unemployed lower skilled job workers per job opening than we have now.



Wage inflation soared

	Production Occs % OTY Change	Transport/Warehouse Occs % OTY Change
2012 – 2019 (avg)	1.9%	3.4%
2021	6.0%	6.6%
2022	6.7%	8.5%

Call center reps have seen their pay increase 27% nationally since just prior to the pandemic from \$15/hr. to just under \$20/hr. With a 40% mark-up, that pay difference would mean \$3,696 more revenue on a 3-month assignment.

Source: BLS, ECI

U.S. Labor Pools

"The United States could also be facing a deficit of more than 6 million workers" (by 2030) - Korn Ferry

The U.S. has effectively 3 labor pools



Native Born



Legal Immigrants



Undocumented Workers **Current Labor Crisis**



The Future Labor Crisis

Most of our labor force growth to 2030 will be over 65 but the vast majority of those people will retire

According to Gallup as of '22, the average person says they will retire at 66, but, they actually retire at **61**.

Thousands 25.000 20,000 15,000 10,000 5,000 0 -5,000 1970-80 1980-90 1990-2000 2000-10 2010-20 2020-30 projected Year 16 to 24 25 to 64 65 and older

Labor force growth, by age group, for selected periods and 2020-30 projected

U.S. Bureau of Labor Statistics

SOURCES: BLS, https://news.gallup.com/poll/394943/retiring-planning-retire-later.aspx

Labor force participation (55+) not recovering

Study by the St. Louis Fed:

Large majority of excess retirements from the **65–74**-year-old group.

Census data also shows small percentage of **55-61** yr olds retired early and the ones that did tended to be in poor health.



16-19 year olds are a key "first job" **demographic**

16–19-year-old population

Boomer children helped explode this group, but that will continue to erode going forward.

16–19-year-old labor force

Despite a somewhat stable population, the number in the labor force fell for decades and has plateaued lower for a decade.





Prime age excess deaths from overdoses and alcohol surged in 2020, '21, constant in '22

Drug Overdose Deaths



"Estimates of the number of **additional substance abusers** during the pandemic presented here suggest that increased substance abuse accounts for between **9 and 26 percent** of the decline in prime-age labor-force participation between February 2020 and June 2021."

- https://www.nber.org/papers/w29932#fromrss

Source: CDC data via CNN, July 17th, 2021 Provisional data released by the CDC's National Center for Health Statistics. CDC Wonder

We're living below the 2.1 birth replacement rate

We can't employ what we don't have



US population growth by decade

1790 to 2020 (estimated) censuses



Over the next 16 years, we will have nearly 1M fewer potential entrants



SOURCE: https://www.census.gov/data/tables/time-series/demo/popest/2020s-national-detail.html - Monthly Postcesal Resident Population

"By 2034, older adults will outnumber children for the first time in U.S. history."

Demographic Drought: Bridging the gap in our Labor Force

Current Labor Crisis



Legal Immigrants

Immigration is bouncing back but there is still a significant deficit

Average immigration numbers per year:

977,500
1,029,900
1,063,300
576,000

We have a gap of a million legal immigrants

Immigrants in the Civilian Labor Force 2010-2022

Net International Migration: 2010-2022 (in thousands)



* Data shown for 2022 are projections.

Note: Year represents the annual estimates period ending on June 30. Released estimates will report 2010 and 2020 as a quarter year (April 1-June 30) instead of a full year.

Source: U.S. Census Bureau Vintage 2020 Estimates (2010-2020); Internal Simulation of 2010-2020 Estimates; and Vintage 2022 Estimates (2021-2022).

New international student enrollments fell 45.6% in 2020-21. Total foreign enrollments fell 15% to 914K.

Immigration is an opportunity to recover our labor crisis for lower skilled jobs

Job openings have soared in lower-skilled industries.

Service Occupations	20.6%	14.4%
Nat. Rsc, Construction, Maint.	13.6%	8.1%
Production	15.2%	11.7%

Occupational Group

Source: BLS JOLTS, internal analysis, CMS

% of their total workforce

Native Born

Foreign Born

Current Labor Crisis

DID YOU KNOW...?

•••

1 out of every 4

construction, farming and maintenance workers is foreign born



1 out of every 5

manufacturing workers is foreign born


Healthcare relies heavily on immigration

1 out of every 4 physicians & surgeons

- 1 out of every 5 nurses
- 1 out of every 4 health aides

Select Healthcare Occupations in the US

Occupation	Immigrant Share of Workforce
Physicians & Surgeons	28.2%
Health Aides	25.3%
Lab Technicians	19.6%
Nurses	15.3%
Respiratory Therapists	13.6%
EMTs	5.1%

Source: NAE Analysis of 1-year sample from the 2018 American Community Survey

Immigrant Share of Healthcare Workers in Select States

State	Physicians and Surgeons	Nurses	Health Aides
New York	36.4%	30.9%	60.7%
New Jersey	40.3%	29.5%	53.7%
California	33.1%	35.2%	44.3%
Michigan	27.1%	7.0%	4.8%
Massachusetts	34.5%	17.1%	39.8%
Florida	36.5%	25.8%	45.6%
Illinois	30.6%	17.5%	20.9%
Washington	24.1%	15.9%	29.0%
Pennsylvania	23.7%	7.9%	11.7%
Texas	31.7%	20.6%	24.5%
Virginia	32.4%	12.7%	17.3%
Georgia	27.8%	11.1%	17.5%
Arizona	28.8%	13.0%	21.4%
Maryland	31.0%	26.6%	40.9%
North Carolina	16.7%	6.8%	4.4%
Ohio	27.1%	3.7%	7.8%

Current Labor Crisis

Undocumented Workers

Myths about undocumented workers

- □ We don't know how many are here
- □ We don't know where they work
- Everyone who comes to the US stays here (roughly 1M return home every year)
- They're all fentanyl dealers (77% of all drug traffickers are American, 2% of all border drug seizures in 2022 were fentanyl/heroin. Drug seizures were down dramatically in 2022 despite record border encounters)
- They all cross the border (~40% of undocumented immigrants overstayed their work or travel visas)

12M Illegal Immigrants are in our population, **2/3rds** are employed

Undocumented immigrants make up approximately 3.2 percent of the U.S. population, but **4.4 percent of the country's workforce.**

There are more than 8.5 million* undocumented immigrants working in the United States.

In 41 states and Washington, D.C., there are more than 10,000 undocumented workers, and in 16 states that total is greater than 100,000.

There was an increase of about 1M last year on net.





Source: Department of Homeland Security and Center for Immigration Studies estimates of the illegal immigrant population. **Current Labor Crisis**

They work in critical sectors



1.4M work in

construction,

construction

13% of all

workers.





1M work in accommodation and food services, approximately 8.4% of the industry

Nearly one-quarter of a million are working as health care providers and 188K as custodians, food servers for healthcare



~ 1.7M work in the nation's food supply chain—from **358,000** farmworkers and food processors to **154,000** working in supermarkets, grocery stores, and convenience stores.

SOURCE: americanprogress.org, migrationpolicy.org, CPS microdata, Pew Research



Immigrants are now the most significant driver of employment growth in the US.

"The monthly CPS also shows that the total foreign-born population (legal and illegal together) grew to 46.7 million in February 2022, a new record high in American history and an increase of 1.7 million since January 2021."

"Illegal immigrants account for more than one million (about two-thirds) of the increase in the total foreignborn population since January of 2021."





Source: Decennial Census for 1900 to 2000, American Community Survey for 2010, February Current Population Survey (CPS) for 2022. The CPS does not include the institutionalized. For 2030 to 2060, see

SOURCE: americanprogress.org, migrationpolicy.org, CPS microdata, Pew Research

Current Labor Crisis

The Reality

Most of our labor force growth in the past 2 years was likely driven by young immigrants



Who is going to do the work?

The US labor force is currently predicted to grow by 23M to 2038

Unskilled Labor

(high school diploma or less)

College Educated

(Bachelors, Masters and Doctorate)

A battle has been forming and will intensify between 3 occupational groups

Skilled trades

(high school, trade school or Associate's degree)

The math problem Sector breakdown



The math problem: Non White Collar Jobs: Food Supply

There are 860K people employed in the beef cattle production industry in the US alone. *Most food supply jobs do not require a college degree*

The Future Labor Crisis



Long distance trucking Employment: 838K



Agriculture Employment: 2.6M



Food & Bev Processing Employment: 1.7M 114K annual openings



Cold storage Employment: 74K

Lightcast job openings: Waiters - 30K Food Prep - 8K Fast food counter - 60K Cooks - 20K



Food Wholesalers Employment: 791K



Restaurants Employment: 10.8M



Grocery stores Employment: 2.8M



The math problem: Non White Collar Jobs: Homes

Many industries that are related to housing are predicted to lose employment to 2031, however, they still have to replace significant numbers of retirees and those leaving these industries



The Future Labor Crisis

BLS projected around 270K openings annually, but, currently, the industries where these sectors belong have around 1M job openings adjusting for share



The Future Labor Crisis

PO'LICE

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The math problem: Non White Collar Jobs: Community Welfare

From cops to fire, to nursing homes, the US has many needs

Occupation	Employed	Annual Job Openings	<u>Net</u> new needed yearly
Firefighters	326	28,000	1,300
Police Officers	688	59,000	2,200
Security Guards	1,087	155,000	3,800
Janitors	2,298	335,500	8,500
Animal caretakers	291	70,400	8,600
Barbers/Hair Stylists	609	94,000	6,500
Childcare workers	949	170,000	6,100
Recreation workers	280	62,000	2,800
Garbage Collection	139	20,600	750
Automotive technicians	1,759	178,000	6,400
			1000

1.2M

47K

The Future Labor Crisis

Oh, and this as well...

Every branch of the military is struggling to make its 2022 recruiting goals, officials say

With a record low number of Americans eligible to serve, and few of those willing to do it, this "is the year we question the sustainability of the all-volunteer force," said an expert.

The math problem: White Collar Jobs: Healthcare

As the US struggles to find critical service workers, the industry most in demand will be healthcare as aging boomers put historic pressure on the industry.



The Future Labor Crisis



Nursing care facilities

Employment: 3.1M New jobs/yr: 14K



Hospitals

Employment: 5.3M New jobs/yr: 32K



Home Health Care

Employment: 1.6M New jobs/yr: 33K

Projected annual job
openings:

647K, net new jobs will equal **79K** annually, current openings around **2M**!



Doctor's Offices

Employment: 2.9.M New jobs/yr: 27K

Annual hiring need:

Registered Nurses: 203K Physicians: 22K Health technologists (lab techs): 256K Therapists: 56K LPNs: 59K Pharmacy techs: 44K

The math problem: White Collar Jobs: IT and Engineering

Automation, robotics, and the internet will increasingly become the way of dealing with chronic labor shortages.



Lightcast data shows around 330K IT job openings and 140K Engineering currently

Occupation	Employed (k's)	Annual Job Openings	Net new needed yearl
Computer Occupations	4,700	418,000	68,200
Arch & Engineering	2,562	201,000	9,000
		650K*	77K*
		* includes managers and related	

The Future Labor Crisis



8M jobs to fill every year

The predominant country of origin for US immigrants is Mexico with about 1 in 4 migrants.

China and India are essentially tied for 2nd.

SOURCE: Migration Policy Institute (MPI) Data Hub





The Future Labor Crisis

MEXICO

The math problem **immigration will dry up**

Countries who send the most immigrants to the US are having their own problems

Infographic: "Mexico's 2022 Talent Shortage" - Manpower





THE BOTTOM LINE

There is very little chance that the US will be able to fill the critical jobs that keep an economy functioning outside of immigration.

This could improve if certain fundamental aspects of society change.

Significant factors affecting young adults' labor force decisions

The Skilled Trades Dilemma

19%

1. Societal, peer, and family pressure to get a college degree



1%

24%

Null

45%

No

3. Potential, perception and earnings

Thinking about the jobs one can obtain when going to a community college or skilled trade school, what are your concerns? **29% Outcomes,** harder to find a good job

23% Earnings, don't make enough money

20% Prestige, Society doesn't value these jobs Thinking about careers in construction, manufacturing, maintenance, logistics, or agriculture, what are your primary concerns?

(22% had no concerns)

43% Physical Labor

32% Work environment (I want to work in an office)

27% Unfamiliarity, not sure what these jobs do

19% Jobs don't pay enough

13% Reputation

Employer Solutions

Jobs that do not require a college degree/ skilled trades



What do Gen Zs want in a job?

Better work/life

balance. "More than half (56%) of Gen Z said they would leave their job if it interfered with their personal lives"

"I want to make a difference before I want to make money," "42% of Gen Zers would rather be at a company that gives them a **sense of purpose** than one that pays more." – Lever report

"62% of Gen Z plans to start or possibly start their own business in the future." "I want to **know what is expected** of me at work"

"The mission or purpose of my company makes me feel my job is important"

Business Insider, May 8th, 2022, firstup.io



Skilled Trades, as well as any other non-college occupation suffers from a marketing problem

Compensation & Experience

Much quicker path to gaining experience, a four year head start

Career Progression

From apprentice to senior level experience in just a few years.

Value to society

Few are more equipped to give back to their community, help disadvantaged populations, travel the world and contribute to charitable agencies like those in skilled trades

Ownership

Owners gain real world business savvy such as pricing, scheduling, inventory management, negotiation, human resourcing and many more. Furthermore, they gain freedom! Work the hours you want, take vacation when you want. The amount you make is largely under your control.

Employer Solutions

The signs are everywhere...

Maybe labor is about to get more of its fair share: CEO of Waste Management Jim Fish, "We can't hire a truck driver to drive a trash truck for \$90,000 in Houston, Texas, but I can hire an MBA from a small school for \$60,000, and I can get them all day long."

6:26 AM · Apr 4, 2023 · 279K Views



I put an add out for a web designer @ \$20 an hour and had 43 applicants in a week, majority highly experienced.

I've had an add out for a master carpenter @ \$45 an hour for a year and have only a handful of applicants, none with required!

college dept: For anyone considering a career in the Trades, am telling you the numbers are REAL! #jointhetrades

5



2 Create Social Networks for your Contractors

If they value the "coming of age" experience of college, work with other businesses to socialize young people with their peers
3 Internships and apprenticeships

Figure out <u>who</u> they value and <u>why</u> they value them.



4 Earlier Messaging.

Get your **message** to them at **younger ages** and then stick with them through graduation.

Jobs that require a college degree

The world is changing, change with it.

Create your workforce

Skills based hiring, and re-examining your ATS screens

The average corporate job opening receives 250 applications while the average job opening gets 118 applicants

Numerous articles exist showing how qualified candidates can get past ATS "bots". Why would those articles need to exist?

40-60% of companies cited a **lack of skills** as the barrier to hiring but they had received numerous applicants.

> - NFIB (Jan '22) Forbes May 17, 2022

The surplus of job seekers when boomers flooded the market created a **"ready made employee" mindset.** That did not exist prior to the boomer population.

From the 1950s to the early 70s, **only 15%** of the US population had **completed a 4 year degree**, so most management positions were filled by workers who had started at the very bottom of the organization.

What can YOU do?

The world is changing, change with it.

Your action items

Be an empathetic consultant for your clients

- Gain the trust of hiring managers by educating them
- 2 Educated hiring managers can often take your data to their companies to change reqs
 - If YOU are convinced, your strength in negotiations increases
- 4
- A req that you helped shape will be a more fillable req.

Moving Forward

Help your client understand risks and rewards.

Assign risk and tolerance levels.

1



Society Solutions

Ease up on the message that everyone needs to go to college. Career diversity is critical.

The Big Question

Will labor force participation increase in the future?



Factors affecting Labor force participation into the future

Mix shift.

Aging boomers with lower LFPRs will pull the overall percentage down for awhile and then it will improve as they age out of the workforce

Wealth transfer.

Millennials will receive an estimated \$1.6T through wealth transfers from their boomer parents at an average of \$1.2M per family. This should drive more older millennials <u>out</u> of the labor force.

Elderly parent care.

As the population ranks of aging boomers swells and a lack of labor to work in nursing care facilities becomes more compounded, more adults will have to stop working to take care of their parents. Currently that number is 2M of those out of the labor force.



"The labor force participation rate is projected to continue to trend down, declining from 61.7 percent in 2020 to 60.4 percent in 2030."

- BLS projections



Who does the work in the future will be determined by the actions we take now.





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