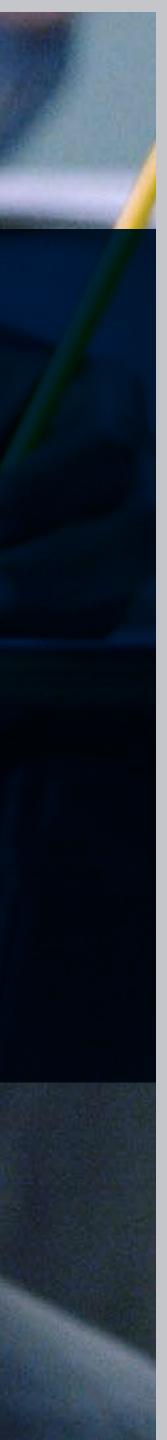
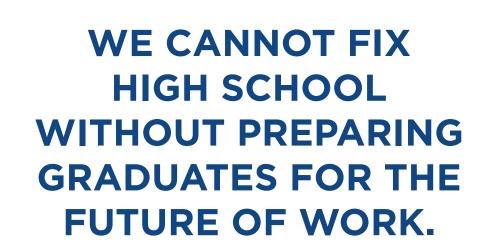


HIGH SCHOOL & THE FUTURE OF WORK



TWO PROBLEMS: RELATED, DEPENDENT, AND REINFORCING



WE CANNOT PRODUCE A FUTURE-READY WORKFORCE IF WE WAIT UNTIL YOUNG AMERICANS ARE IN COLLEGE OR AT WORK.







FOUR KEY POINTS

THE CHALLENGE

- Our schools are failing
- **Poor schools hurt** our economy
- As work evolves, the 3 gap between today's workforce and good jobs grows

THE OPPORTUNITY

The future of work is a road map for 4 education reform

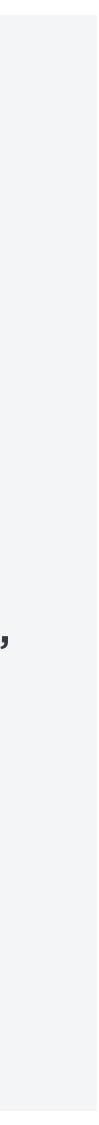
Automation can create more jobs here than it destroys

 We know what students need: basic technical skills, the ability to learn continuously, teamwork and good judgment, and self-reliance

Internships and apprenticeships work

More college isn't always necessary







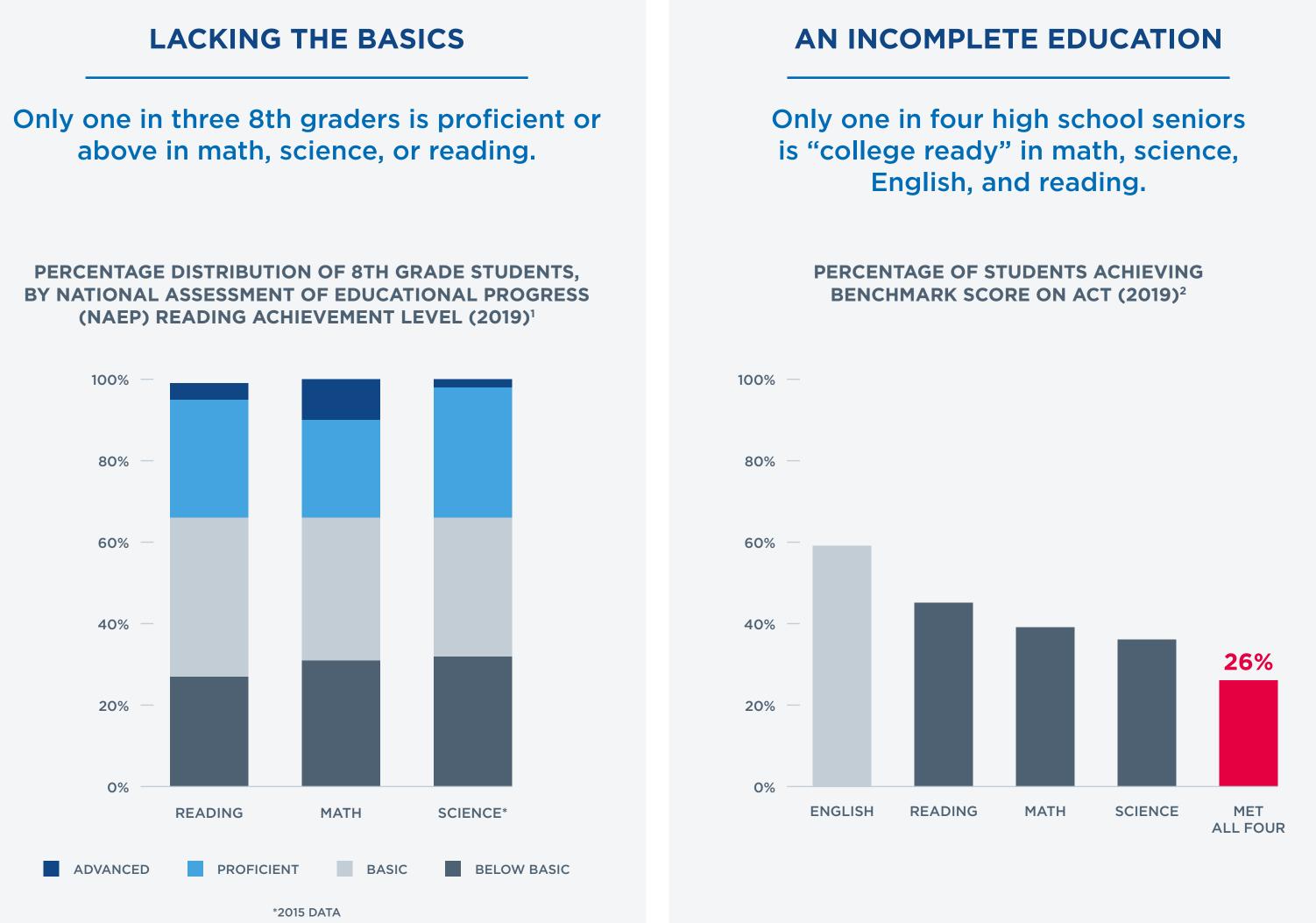
OUR SCHOOLS ARE FAILING





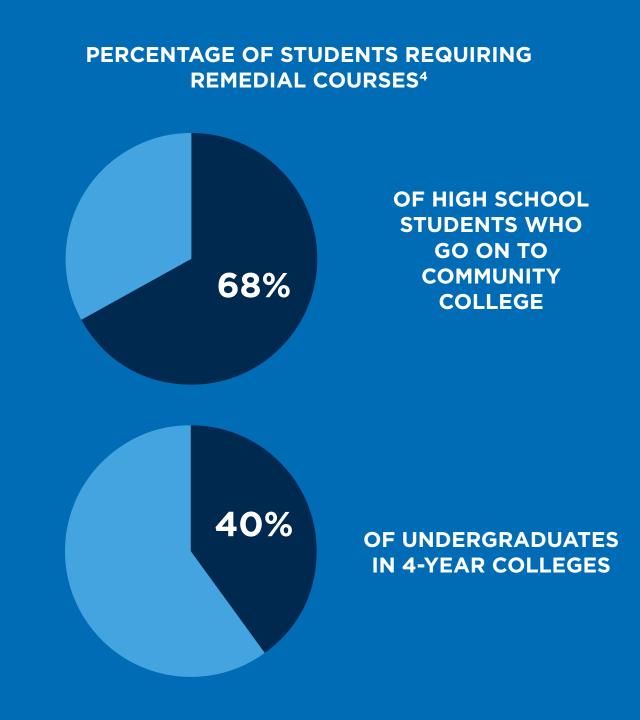


WE ARE FAILING OUR KIDS



THE COST OF REMEDIAL EDUCATION

More than four in 10 first-year college students require remedial education. These additional classes cost students \$1 billion/year. They also make it harder for students to graduate on time.³

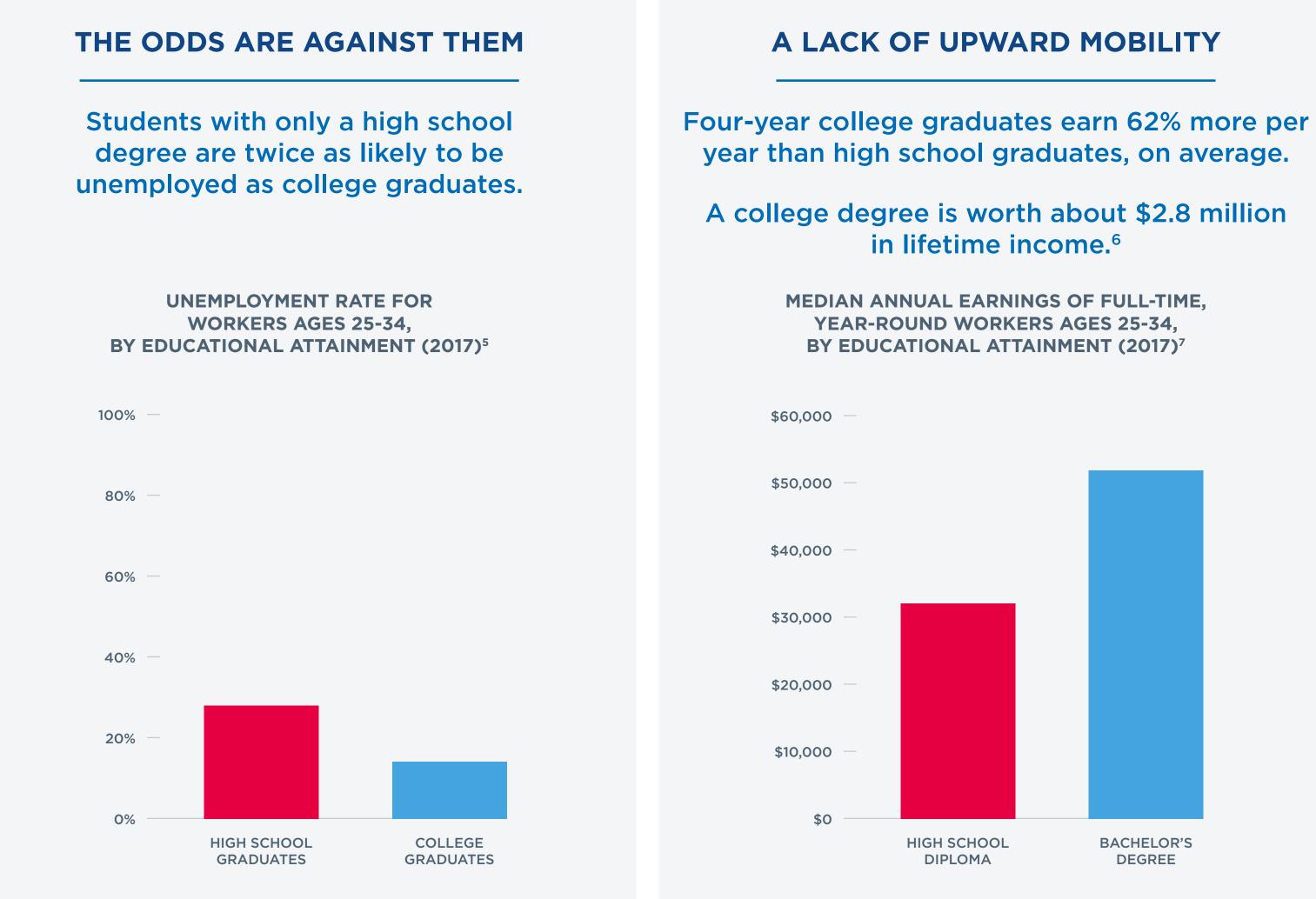








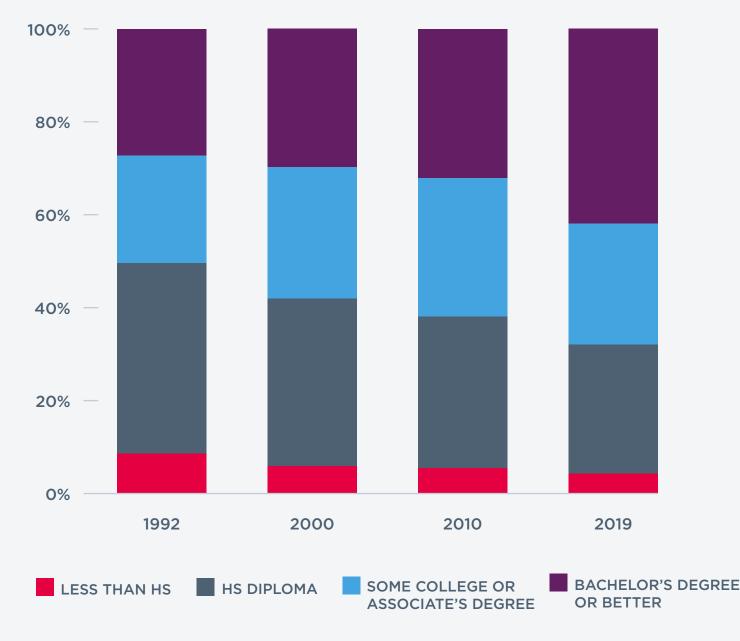
IT'S HURTING THEIR FUTURES



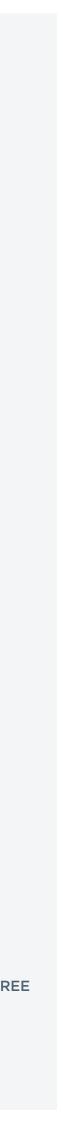
CHANGING JOB REQUIREMENTS

67% of all jobs in the economy require post-secondary education and training beyond high school.





BUSINESSFORWARD



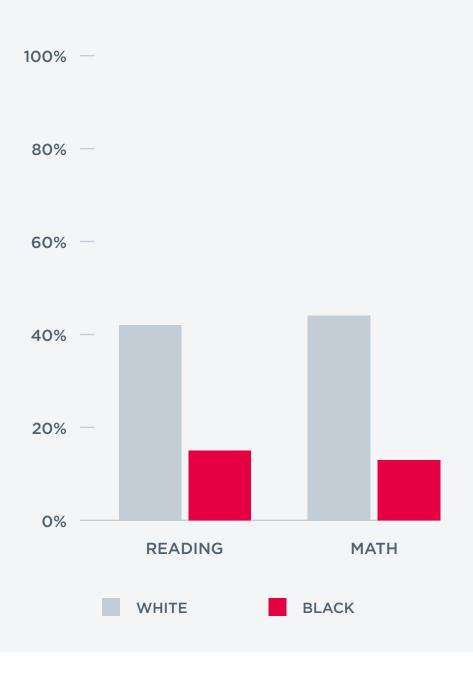


IT'S WORSE FOR POOR AND MINORITY STUDENTS

AN UNNECESSARY DIFFERENCE

African-American 8th grade students are three times less likely to be proficient in reading or math as white students.

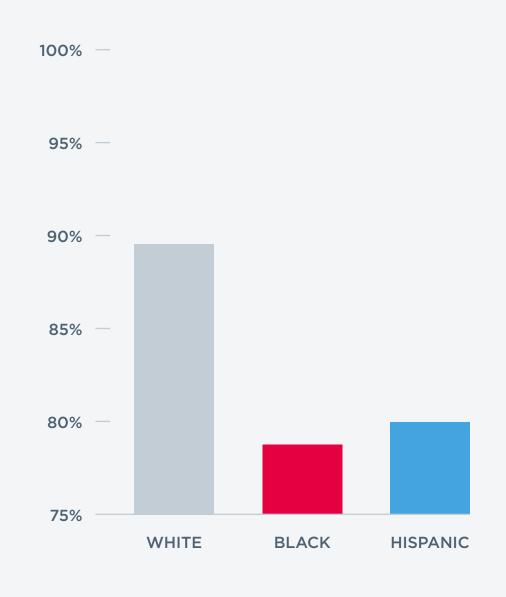
> PERCENTAGE 8TH GRADERS PROFICIENT IN READING AND MATH, BY RACE (2019)⁹



DROPPING OUT

Students of color are twice as likely to drop out of high school than white students.

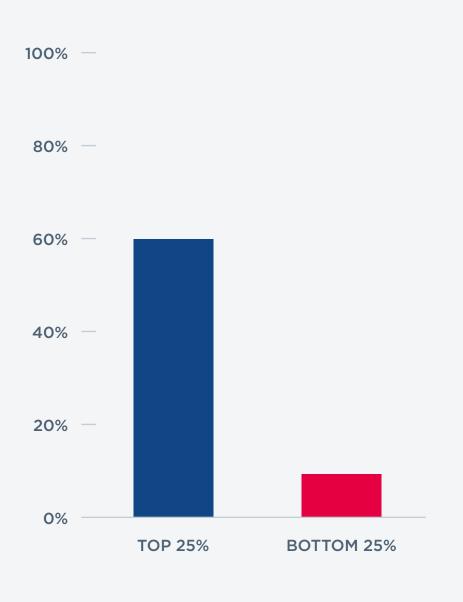
ADJUSTED COHORT GRADUATION RATE FOR PUBLIC HIGH SCHOOL STUDENTS, BY RACE (2016-17)¹⁰



THE GAP BETWEEN RICH AND POOR

Students from affluent families are four times more likely to earn a 4-year degree than students from poor families.

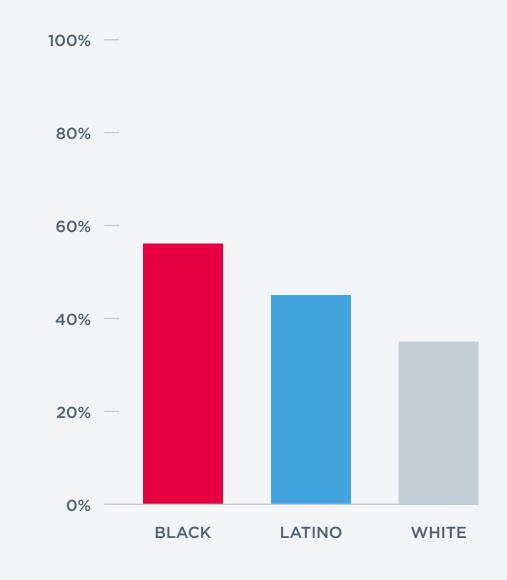
LIKELIHOOD OF GRADUATING FROM 4-YEAR COLLEGE, BY FAMILY INCOME¹¹



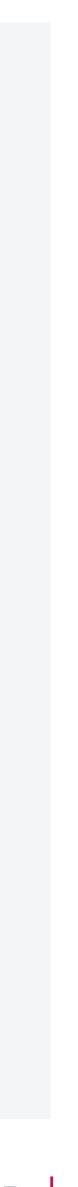
REMEDIAL EDUCATION

Black students are 21% more likely to require remedial education than their white peers.

NATIONAL RATES OF REMEDIAL EDUCATION ENROLLMENT, BY STUDENT GROUPS¹²



> BUSINESSFORWARD



POOR SCHOOLS HURT OUR ECONOMY





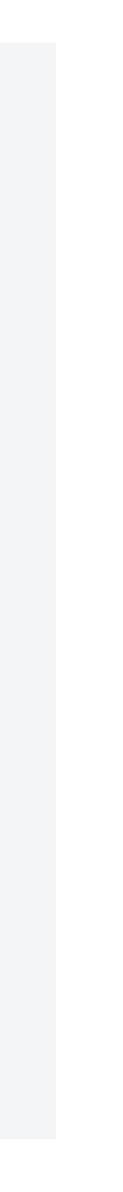


WE'RE FALLING BEHIND AS A NATION

	RANK	
WE NEED TO SPEND SMARTER	1	
WE NEED TO SPEND SMARTER	2	
	3	
	4	
espite ranking 2nd in per pupil	5	
spending for K-12, the U.S. ranks 13th in reading, 37th in math, and 18th in science. ¹³	6	
	7	
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The U.S.'s per pupil spending on K-12 is 35% higher than the average for OECD countries. ¹⁴	12	
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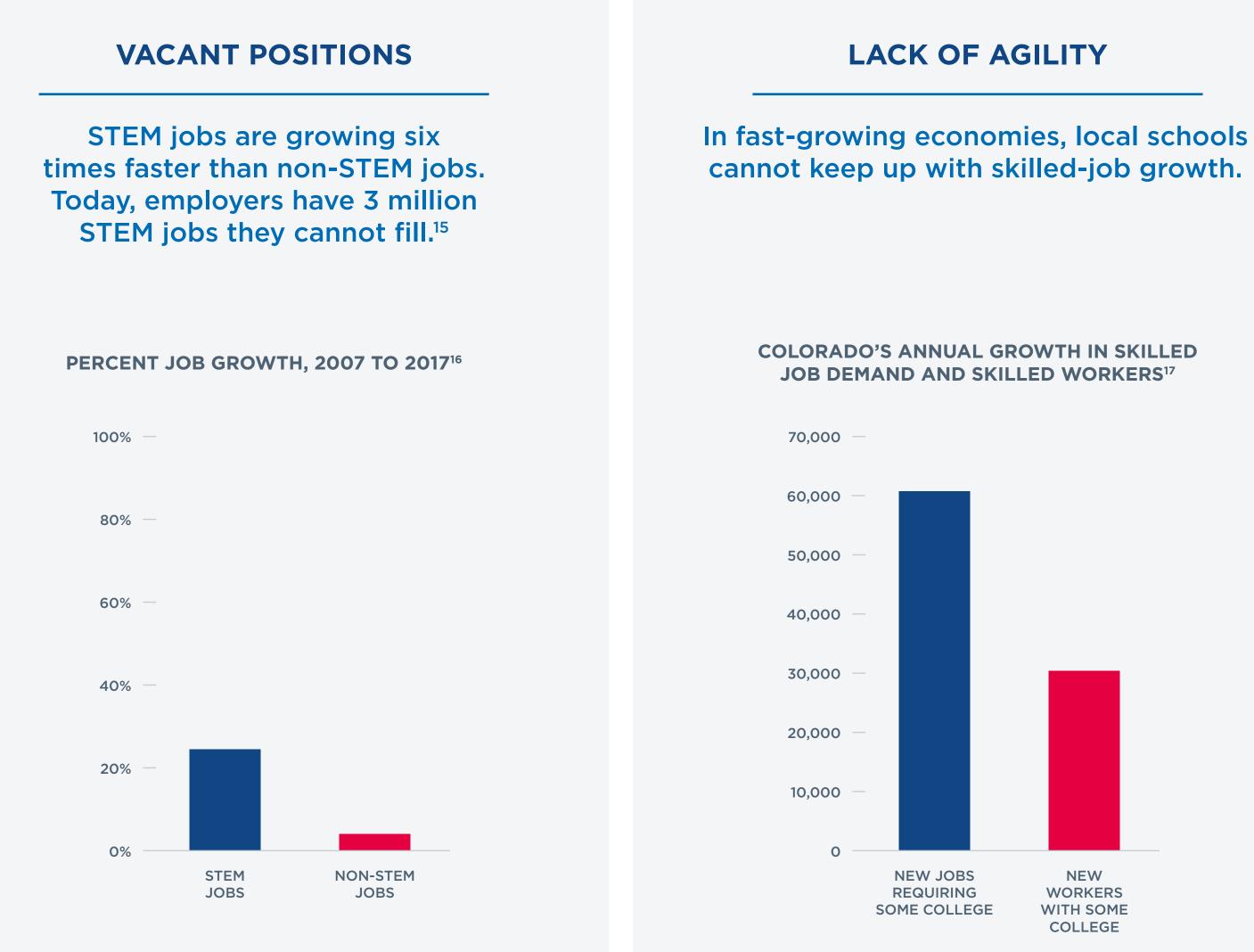
READING	МАТН	SCIENCE
B-S-J-Z (CHINA)	B-S-J-Z (CHINA)	B-S-J-Z (CHINA)
SINGAPORE	SINGAPORE	SINGAPORE
MACAO (CHINA)	MACAO (CHINA)	MACAO (CHINA)
HONG KONG (CHINA)	HONG KONG (CHINA)	ESTONIA
ESTONIA	TAIWAN	JAPAN
CANADA	JAPAN	FINLAND
FINLAND	KOREA	KOREA
IRELAND	ESTONIA	CANADA
KOREA	NETHERLANDS	HONG KONG (CHINA)
POLAND	POLAND	TAIWAN
SWEDEN	SWITZERLAND	POLAND
NEW ZEALAND	CANADA	NEW ZEALAND
UNITED STATES	DENMARK	SLOVENIA
UNITED KINGDOM	SLOVENIA	UNITED KINGDOM
JAPAN	BELGIUM	NETHERLANDS
AUSTRALIA	FINLAND	GERMANY
TAIWAN	SWEDEN	AUSTRALIA
DENMARK	UNITED KINGDOM	UNITED STATES
NORWAY	NORWAY	SWEDEN
GERMANY	GERMANY	BELGIUM
SLOVENIA	IRELAND	CZECH REPUBLIC
BELGIUM	CZECH REPUBLIC	IRELAND
FRANCE	AUSTRIA	SWITZERLAND
PORTUGAL	LATVIA	FRANCE
CZECH REPUBLIC	FRANCE	DENMARK
NETHERLANDS	ICELAND	PORTUGAL
AUSTRIA	NEW ZEALAND	NORWAY
SWITZERLAND	PORTUGAL	AUSTRIA
CROATIA	AUSTRALIA	LATVIA
LATVIA	RUSSIA	SPAIN
RUSSIA	ITALY	LITHUANIA
ITALY	SLOVAK REPUBLIC	HUNGARY
HUNGARY	LUXEMBOURG	RUSSIA
LITHUANIA	SPAIN	LUXEMBOURG
ICELAND	LITHUANIA	ICELAND
BELARUS	HUNGARY	CROATIA
ISRAEL	UNITED STATES	BELARUS







IF WE CAN'T FILL JOBS HERE, THEY'LL MOVE OVERSEAS

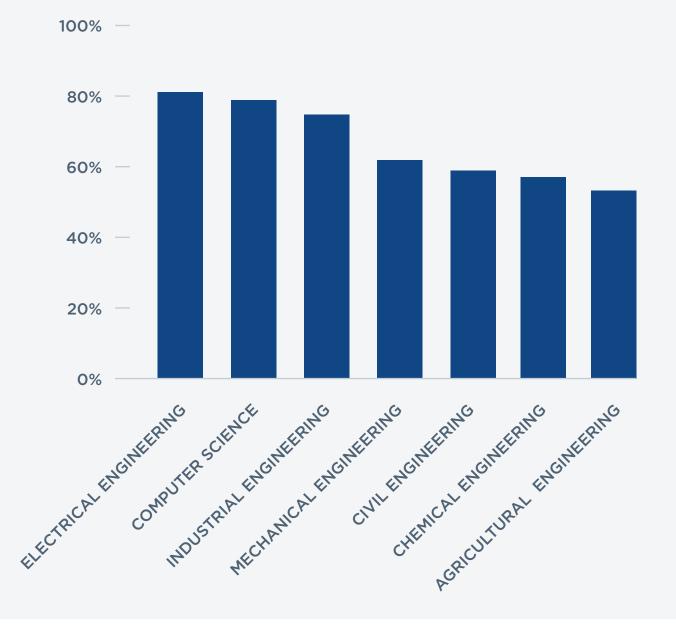


IMPORTING TALENT

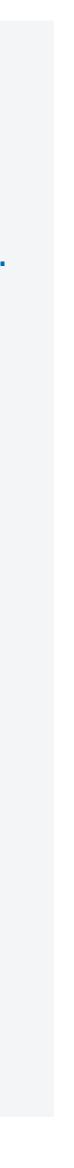
As a result, employers in high-growth markets import workers from other states, leaving low-skilled workers underemployed.

Meanwhile, their universities import talent to fill STEM classrooms.

FOREIGN STUDENTS AS A PERCENTAGE OF GRADUATE STEM PROGRAMS (2015)¹⁸







AS WORK EVOLVES, THE GAP BETWEEN TODAY'S WORKFORCE AND GOOD JOBS GROWS



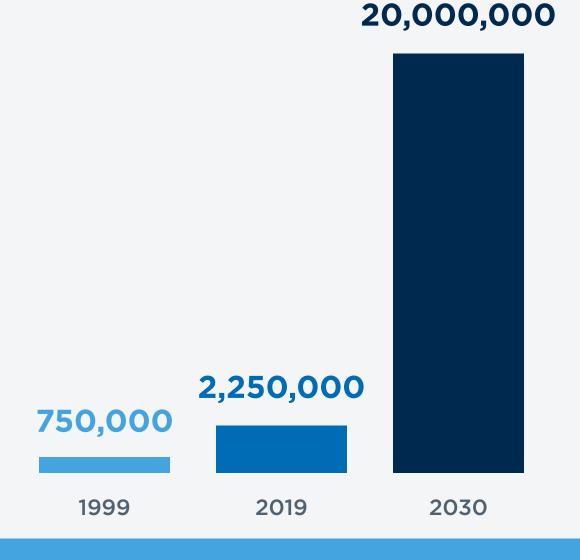


"WORK" IN THE U.S. IS CHANGING



There are 3X more robots now than there were 20 years ago. There will be 9X more in 2030 than today. Workers will need to work alongside these robots moving forward.

NUMBER OF ROBOTS IN THE U.S.¹⁹



And MIT Economist Daron Acemoglu estimates that every new robot reduces employment by 5.6 workers²⁰

MORE JOB CHANGES

The average American will have at least 12 different jobs between the ages of 18-50.²¹



DIFFERENT KINDS OF JOBS

Jobs are quickly becoming more technology-intensive. Workers will need higher proficiency in science, engineering, and math than they have before.

> OF JOBS THAT TODAY'S LEARNERS WILL BE DOING IN 2030 DON'T EXIST YET.²²



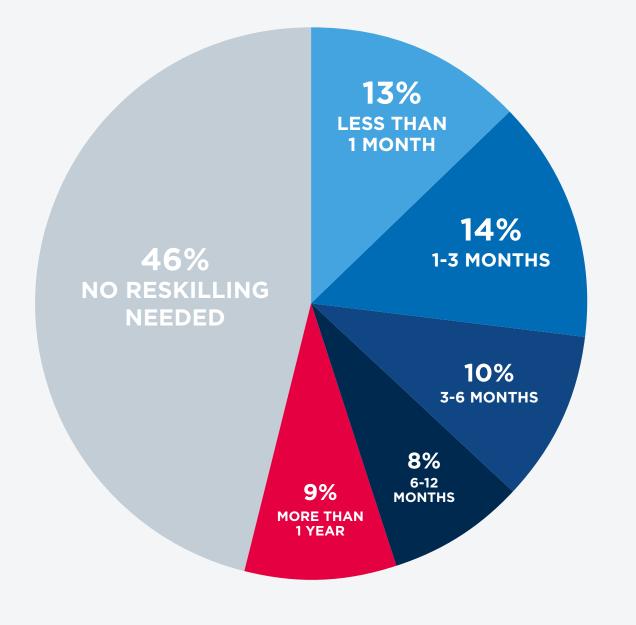


NEW JOBS REQUIRE NEW SKILLS

RESKILLING

40% of Americans are in occupational categories that could shrink by 2030.²³ 54% of U.S. workers need reskilling. The length of training ranges from a few weeks to more than one year.

AVERAGE LENGTH OF TRAINING REQUIRED TO RESKILL (SHARE OF WORKFORCE)²⁴



POSTSECONDARY EDUCATION IS KEY

A high school diploma is no longer enough training to secure a job. Four-year, two-year, and certificate-granting programs provide a pathway to new jobs.

OF JOBS CREATED DURING THE ECONOMIC RECOVERY WENT TO WORKERS WITH POSTSECONDARY EDUCATION OR TRAINING²⁵

99%

"HUMAN" SKILLS GROW MORE VALUABLE

Workers will need to develop the skills that cannot be automated and the skills that allow them to work with new technologies.

BY 2030, WORKPLACE DEMAND WILL INCREASE BY

60% For technological skills

> 40% FOR CREATIVITY

33%

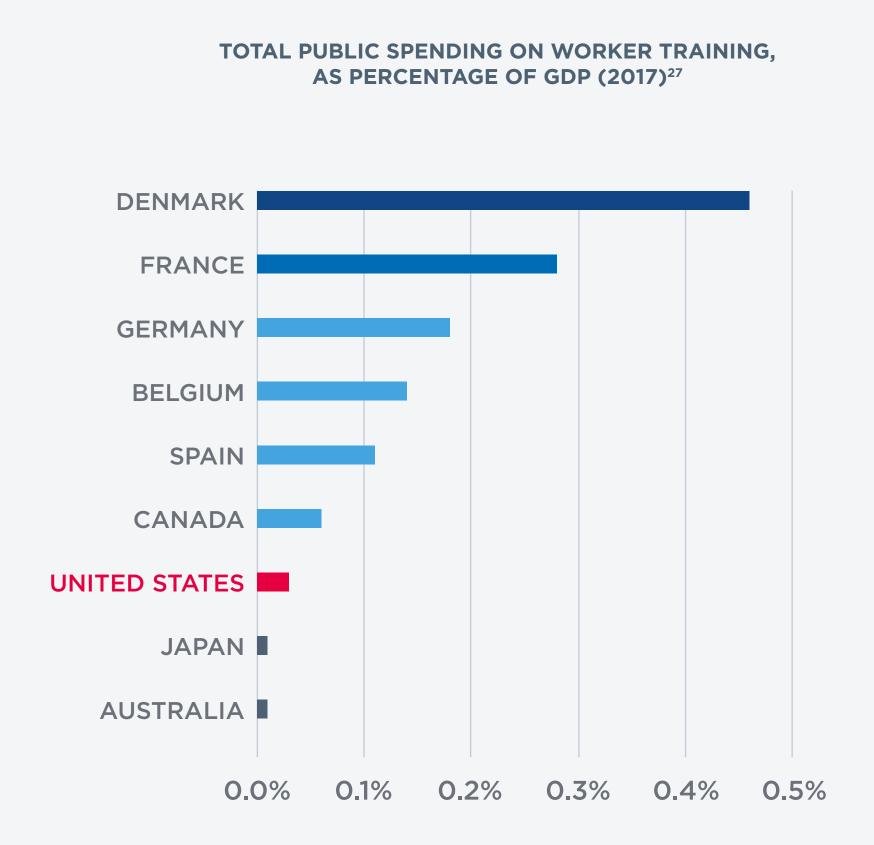






WE'RE BEHIND ON WORKER TRAINING

WE INVEST LESS THAN OUR COMPETITORS



WE'RE INVESTING LESS THAN WE DID

SPENDING ON WORKER TRAINING AS A PERCENTAGE OF GDP²⁸

1993 **08%**



2017 03%





2.4 MILLION MANUFACTURING JOBS ARE AT STAKE

A DELOITTE STUDY PROJECTS OUR WORKFORCE WILL LACK THE SKILLS NEEDED TO FILL 2.4 MILLION NEW JOBS

> 2.7M JOB OPENINGS CREATED BY RETIREMENT

> **19** JOB OPENINGS CREATED BY NATURAL GROWTH

46 MANUFACTURING JOBS TO FILL BETWEEN 2018-2028

ONLY 2.2 MILLION WORKERS CAPABLE OF FILLING THESE JOBS.

2.4M JOB GAP

\$3000 \$2,139 \$2,097 \$2,023 \$2000 BILLIONS ÷ \$1000 \$112 \$85 \$48 **\$**0

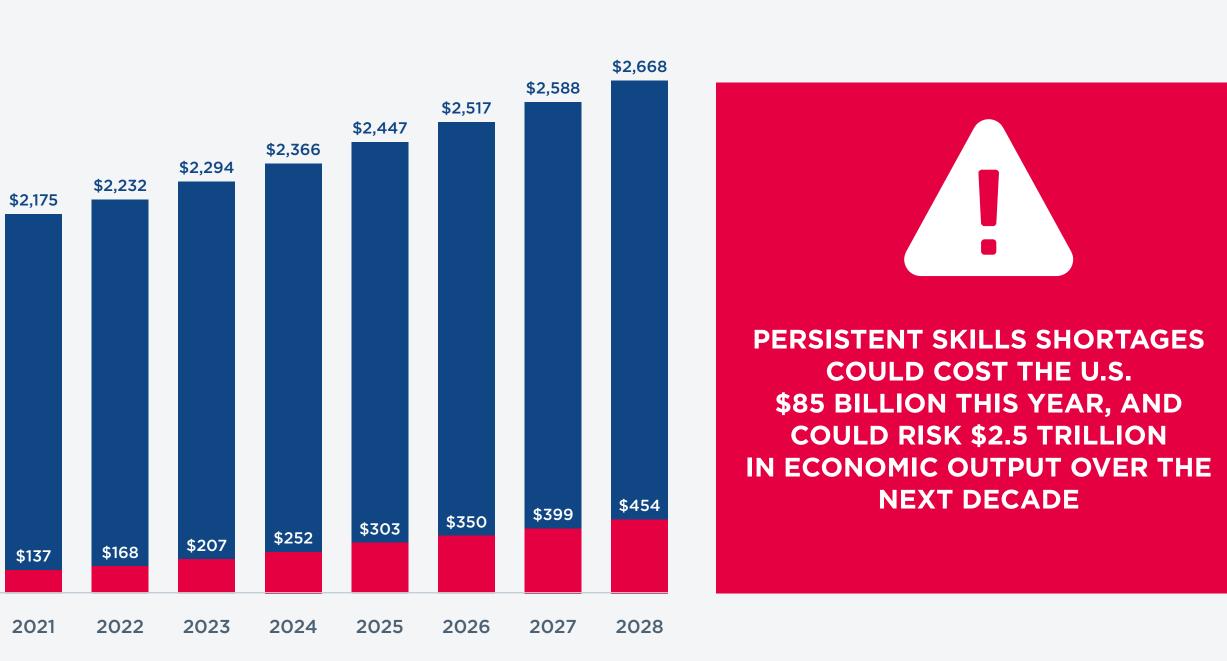
2018

2019

US MANUFACTURING OUTPUT/GDP

2020

IF WE CAN'T FILL THESE JOBS, OUR ECONOMY COULD LOSE \$2.5 TRILLION IN OUTPUT BY 2028²⁹



MANUFACTURING OUTPUT/GDP AT RISK DUE TO SKILLS SHORTAGE

SOURCE: DELOITTE





AUTOMATION IMPACTS WORKERS, REGIONS, AND INDUSTRIES DIFFERENTLY...





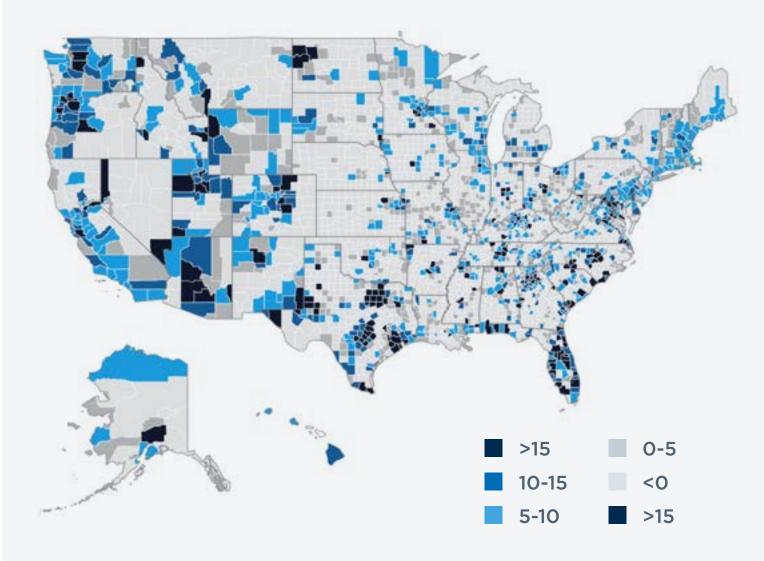


...WHICH INCREASES INEQUALITY

GEOGRAPHY

60% of U.S. job growth through 2030 will likely be concentrated in 25 urban counties, while rural areas lose jobs.

ESTIMATED PERCENTAGE OF NET JOB GROWTH IN MIDPOINT ADOPTION SCENARIO (2017-30)³¹



SOURCE: MCKINSEY GLOBAL INSTITUTE ANALYSIS

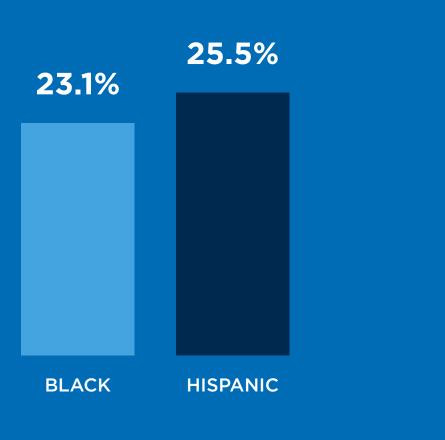
11.9 million Hispanics and African Americans are projected to be displaced by automation by 2030.

22.4%

WHITE

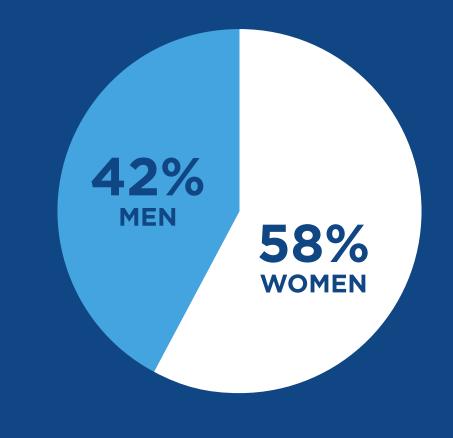
RACE

PROJECTED DISPLACEMENT RATE BY RACE³²



GENDER

Because women are heavily represented in health professions and personal care work, they are projected to capture 58% of net job growth between 2017-2030. This does not account for the fact that men are more heavily represented in "frontier" jobs involving cutting-edge technologies, which may position them for other jobs that have yet to emerge.³³







THE FUTURE OF WORK IS **A ROAD MAP FOR SCHOOL REFORM**









STEP ONE: TECHNICAL AND DIGITAL SKILLS

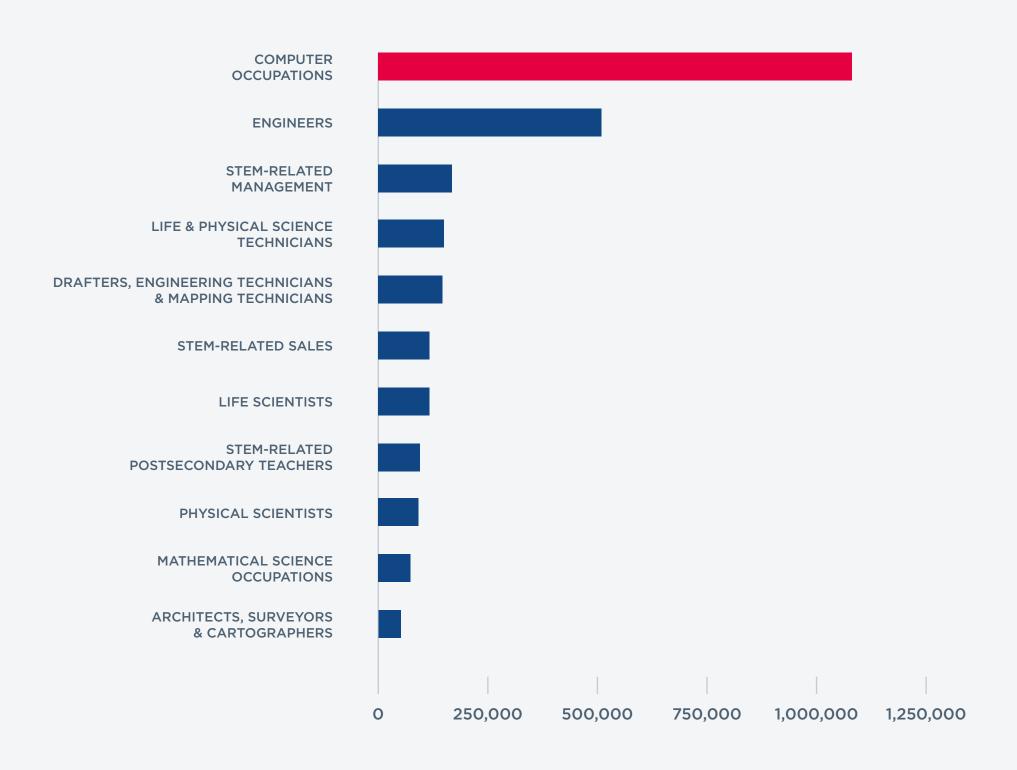


Seven million job openings in 2015 were in occupations that required coding skills.³⁴ But only 35% of U.S. high schools offer computer science classes.³⁵

Programming jobs overall are growing 12% faster than the market average.³⁶

By increasing computer science and other STEM course work, we can help graduates succeed at work — and many of them can do so without college.

PROJECTED JOB OPENINGS FOR TYPES OF STEM OCCUPATIONS, 2014 TO 2024³⁷



SOURCE: U.S. BUREAU OF LABOR STATISTICS





STEP TWO: CONTINUOUS LEARNING



The kinds of technical skills workers need are continuously evolving, so being able to learn quickly is essential.

Most jobs will not be automated out of existence, instead they will integrate new technologies to expedite existing processes, meaning workers need to quickly learn and adapt to new systems, softwares, and machineries.

They also need the ability to understand the engagement, interaction, and collaboration between humans and machines.

THE PRODUCTIVITY REVOLUTION IN STEEL **DEMONSTRATES A TREND ACROSS INDUSTRIES**

Consolidation and improved processes in the steel industry have increased productivity by more than 6 times since 1980.³⁸

As the [steel] industry continues to introduce technological innovations, the profile of the workforce will evolve and require higher levels of education and training than ever before...the demand for engineers, computer scientists, business major, and skilled production workers is expected to remain strong.

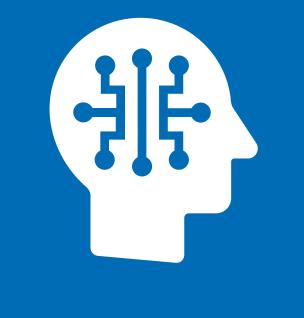
- WORLD STEEL ASSOCIATION³⁹







STEP THREE: TEAMWORK AND JUDGMENT



As automation eliminates simple tasks, it increases the value of "human" skills that robots and A.I. cannot handle.

CRITICAL THINKING AND PROBLEM SOLVING

CREATIVITY

SOCIAL AND EMOTIONAL SKILLS

EMPATHY

ENTHUSIASM FOR LEARNING

ABILITY TO EMBRACE CHANGE AND UNCERTAINTY

At its core, work in the future will be more networked, more devolved, more mobile, more team-based, more project-based, more collaborative, more real-time, and more fluid.

- DELOITTE WHITE PAPER ON THE FUTURE OF WORK⁴⁰

Interpersonal skills are unlikely to be rendered obsolete by technological innovation or economic disruptions. In a changing workforce, it's having a strong foundation in these versatile, cross-functional skills that allows people to successfully pivot.

- WORLD ECONOMIC FORUM⁴¹

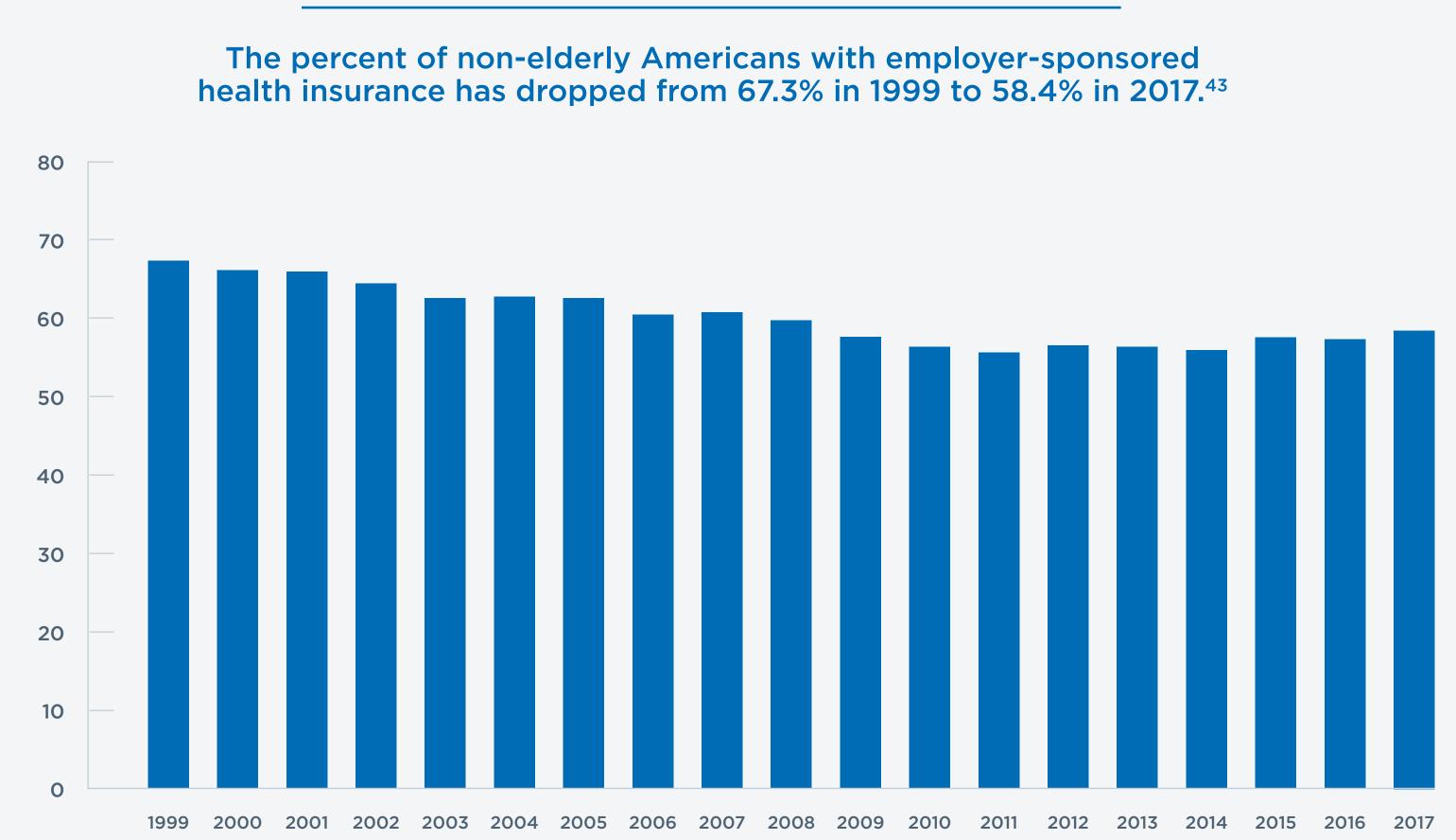




STEP FOUR: SELF-RELIANCE

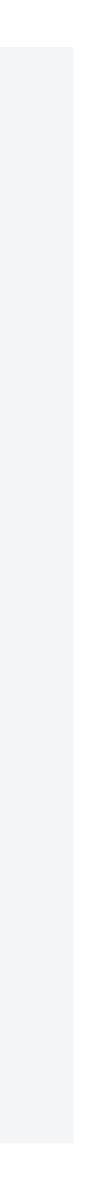


25 years ago, that figure was 38 percent.⁴²



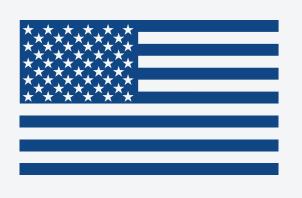
TODAY'S YOUNG WORKERS WILL NEED TO PREPARE FOR THEIR RETIREMENT





A PLACE TO START: INTERNSHIPS AND APPRENTICESHIPS

Business leaders understand the demands of the market in which they're operating. No group is better suited to help train the employees of tomorrow before they enter the workforce. Their industry knowledge, when coupled with their ability to offer apprenticeships and internships, makes them the real leaders and experts.



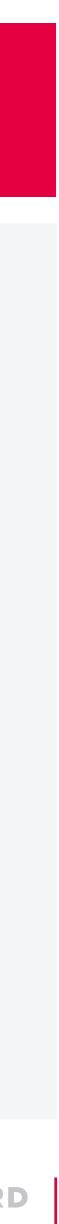
More than 80 percent of U.S. companies that sponsor apprentices say that apprenticeship is an effective strategy for helping them meet their demand for skilled labor.⁴⁴ For every \$1 invested in apprenticeship programs, Canadian employers of all sizes and in every province can expect to receive \$1.47 in return.⁴⁵





In Switzerland, 70 percent of young people enter the workforce through an apprenticeship.⁴⁶



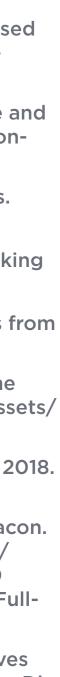


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