Farming through the Years Fewer Farmers Feed More People				
	1800	1900	2000	2017
Number of persons employed in farming (in thousands)	1,400	11,680	2,464	2,454
Percent of total workforce	73.7%	40.2%	1.7%	1.5%
U.S. population (in millions)	5.3	76.2	281.4	325.7
Sources: BLS, NBER, U.S, Census				

Weighing Whether There Are Too Many or Too Few Jobs

by Richard W. Rahn

THE ARTIFICIAL INTELLIGENCE REVOLUTION MAY ELIMINATE JOBS, BUT RIGHT NOW THERE ARE MORE JOBS AVAILABLE

Will there be too few or too many jobs in the future? We are told as a result of the artificial intelligence (AI) revolution with endless robots, autonomous vehicles, etc. that there will be far fewer jobs. Yet last week, despite record levels of automation, the Department of Labor announced that the country had reached the point where there were more jobs available than people seeking work.

At the time of the American Revolution, three-quarters of all Americans worked on farms; now it is 1.5 percent. A century ago, in 1918, despite a much smaller population, there were four times as many Americans working on farms than there are today, yet they each produced only about one-fifteenth as much food as today's farmer.

Where did all of the farmers go? The first farm machines, like the reaper, were developed in the early 1800s. But it was not until the 1850s that entrepreneurs like Cyrus McCormick built the first mass-production farm machinery companies. During the industrial revolution, there were many commentators decrying how the new machines would destroy all of the jobs. It didn't happen — many more new jobs were created. (There was one big loser, and that was the draft horse — which stopped being bred.)

A big source of employment outside the home for household names in the camera, film and women in the first half of the 20th century was being photofinishing industry? Twenty years ago, who could a telephone operator. As the telephone became have imagined that Apple would be the U.S.' largest widespread, there was a fear that the country could camera company and the world's most profitable not produce enough telephone operators; but, as maker of telephones? automated exchanges were developed, there was an women. The fearmongers somehow were unable to envision that within a few decades there would be more women graduating from medical and law schools than men.

That is only the beginning of the long list of jobs that even Mars. How many jobs will that create? will be destroyed by technological change."

In fact, labor market disruption is constant. Fifty years ago almost no one was employed in Information Technology, and few were as recently as 30 years ago. Now, broadly defined, about 7 million people are IT workers.

destroy almost three-quarters of all the jobs as the farming revolution did — the result of the combination of much better seeds, fertilizers, pesticides, farm mechanization and greatly improved farm management.

Internet commerce has already destroyed millions of relatively low-skill retail jobs, but even so there is full employment in the country. Where did all of these people go? They are obviously working at something. Remember Kodak, Fuji, Nikon and all of the other

opposite fear that there would be too few jobs for Every month, Apple, Amazon, Microsoft, etc. go out and kill entire existing industries and large companies with tens of thousands of employees. Yet again, we have full employment. So where did all of the workers in the destroyed companies go?

In a recent Wall Street Journal article, Martin Up to 50 years ago, few people had seen much of the Feldstein, former chairman of the Council of world. The invention of the Boeing 747 aircraft Economic Advisers under President Reagan, wrote: changed everything and made the entire planet a "The day is coming, experts tell us, when artificial playpen for even middle-class people and now even intelligence and robotics will massively disrupt the college students. The modern jetliner has created labor market. Autonomous vehicles will put 3.5 hundreds of millions of jobs in the hospitality industry million truck drivers at risk of losing their jobs, worldwide. Real plans are being made by serious Checkout machines may replace 3.4 million cashiers. people to develop a tourist industry for the moon and

> Up to relatively recent times, you could ask someone what they did, and they would give you an answer you could understand — e.g. "I sell books in a bookstore." Now people give answers that accurately reflect their job title (e.g. configuration manager), yet often we have no sense of what they just said.

It is hard to imagine any future innovation that could I am willing to bet that in 50 years there will still be plenty of jobs for everyone — just different jobs than most people have now. You may be thinking, that is a safe bet because Richard Rahn will be dead in 50 years. Not necessarily. Many people are working on curing the aging problem — and I intend to be a customer because these folks need a job.

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https://www.washingtontimes.com/news/2018/jun/18/the-artificial-intelligence-revolution-may-

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