


The Impact of Automation on Southern Arizona Jobs


George Hammond
 Director
 Economic and Business Research Center
 Eller College of Management
 The University of Arizona

The Future of Work
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What Makes This Revolution Different?

- ▶ Artificial intelligence
- ▶ Big data
- ▶ Genetic engineering
- ▶ Mobile robotics





Will Machines Take All Our Jobs?

U.S. Jobs

2019
151 million

1939
31 million

Job Disruptions Are Coming




Tucson's Economy: Periods of Rain and Shine

MAP Dashboard Economy Scorecard

INDICATOR	HOW ARE WE DOING?	HOW DO WE COMPARE?	RECENT CHANGE
BUSINESS GROWTH	0.0% FROM 2017 TO 2018	☁️	▼
EMPLOYMENT GROWTH	1.2% FROM 2017 TO 2018	☁️	▼
HOUSING AFFORDABILITY	66.2%	☀️	▼
MEDIAN HOUSEHOLD INCOME	\$48,676	☁️	▲
PATENTS	17.4 PER 10,000 WORKERS	☀️	▼
REAL GDP	3.6%	☁️	▼

MAP Scorecard "How Do We Compare?" Rankings Are Relative To The Following Peer Metropolitan Areas: Albuquerque, Austin, Colorado Springs, Denver, El Paso, Las Vegas, Phoenix, Portland, Salt Lake City, San Antonio, and San Diego. mapdashboard.arizona.edu

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How Big Is the Automation Job Impact in Tucson?


154,000
jobs at high risk from automation during the next 20-30 years

4 out of 10 jobs
Low skill jobs at higher risk

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Occupations Most Likely to be Impacted in Tucson

- ▶ Food Preparation and Serving
- ▶ Farming, Fishing, Forestry
- ▶ Sales
- ▶ Ground & Building Maintenance
- ▶ Production



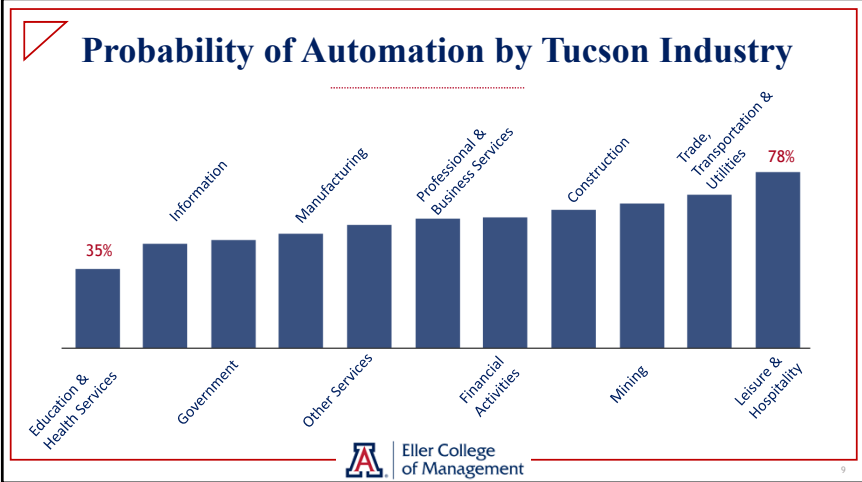
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Occupations Least Likely to be Impacted in Tucson

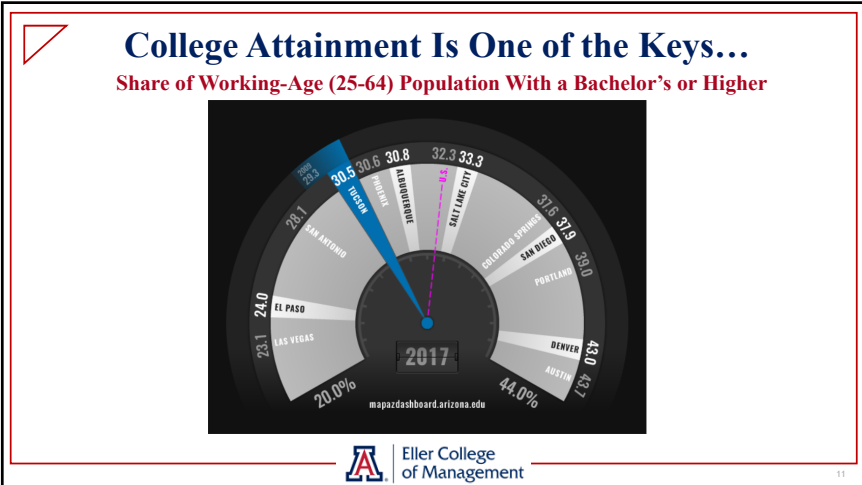
- ▶ Community and Social Services
- ▶ Management
- ▶ Architecture and Engineering
- ▶ Education, Training, and Library
- ▶ Health Care



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- ### Key Skills Will Be in Demand
- ▶ **Advanced IT skills**
 - ▶ **Basic digital skills**
 - ▶ **Entrepreneurship**
 - ▶ **Leadership**
 - ▶ **Creativity**
 - ▶ **Complex information processing and interpretation**
- McKinsey Global Institute (2018) Skill Shift: Automation and the Future of the Workforce
- Eller College of Management



There will be jobs.

Inequality will be an issue.

More and more, we will work with smart machines.

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THE FUTURE OF WORK
HOW TO THRIVE IN THE AUTOMATED WORKPLACE

4 IN 10 LOCAL JOBS ARE AT RISK
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George Hammond, director
Economic and Business Research Center
ghammond@eller.arizona.edu

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George Hammond, director
 Economic and Business Research Center
 ghammond@eller.arizona.edu