

THE TRUTHS ABOUT THE INDUSTRY TODAY -

# Myth#3

Automation will eliminate jobs.



# Truth

Jobs are changing, and new skills will be needed along with traditional expertise.



#### **AUTOMATION AND JOBS**



"The evidence suggests structural unemployment will not increase due to automation." (Information Technology & Innovation Foundation)



"These disparate findings suggest that the main impact of automation in the near future may be to cause a major reallocation of jobs." (VoxEU.org/CEPR)



Automation helps the U.S. compete internationally, and the more successful it is, the more jobs will result.

#### Jobs Displaced by Automation:



Net Gain

Job Growth in New Roles: (driven by new technology and automation)

133M

One projection from 2018\* says that by 2022, 133 million new jobs (worldwide) will be created, more than offsetting the 75 million displaced.

\*Pre-Covid projection of global non-agricultural employment based on World Economic Forum survey

### Automation is changing the way manufacturing works:

#### Reduced Labor — Tasks being automated



- Routine
- Repetitive
- Predictable

## Increased Labor — Tasks that require humans



- Problem Solving
- Adaptability
- Creative Thinking

### AUTOMATION AND HUMAN SKILLS



"Many manufacturers today are turning toward automation to supplement the low-skilled jobs they cannot fill and instead focus their existing workers on jobs that are either higher skilled or require uniquely human skills." (Deloitte and The Manufacturing Institute)



"Nearly 70% of manufacturers said they are creating or expanding training programs for their workforce." (Manufacturing Institute)

### Jobs are increasing in:



- Data analytics
- Al and machine learning specialists
- Software and application development

## HOW THE MEP NATIONAL NETWORK HELPS



The New Mexico Manufacturing Extension Partnership helped Navajo Spirit, a manufacturer of Native American-inspired clothing, increase production and sales while creating jobs by integrating automation and retraining employees.







www.nist.gov/mep/mep-national-network