





Our Vision

An inspired, educated, and prosperous manufacturing community



Our Mission

Promote manufacturing technology and develop a skilled workforce



Our Purpose

Advancing manufacturing and attracting future generations





Government Academia Industry SME engages more than 750,000 Non-Profits manufacturing professionals, educators and students each year

SME Core Capabilities

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Building Community

Networking, partnering, fostering collaboration

Attracting Students

Introducing youth to manufacturing careers and promoting the industry

Industry Insights

Delivering insightful content via multiple vehicles

Advancing Technology

Facilitating the advancement of technology thru connections and identifying opportunities

Technology Adoption

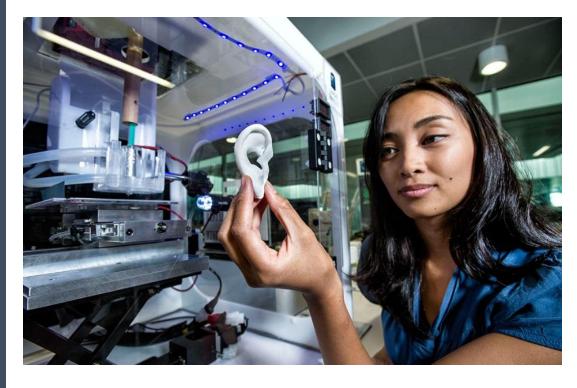
Increasing the adoption of technology via partnerships, tools and education

Developing Skills

Solving workforce challenges thru customized solutions







PEOPLE

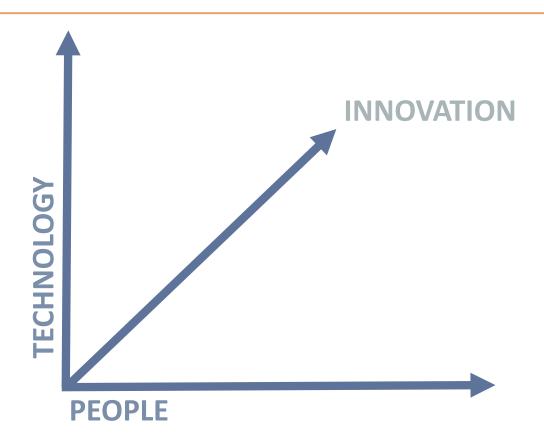




TECHNOLOGY

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Building Innovation Capabilities

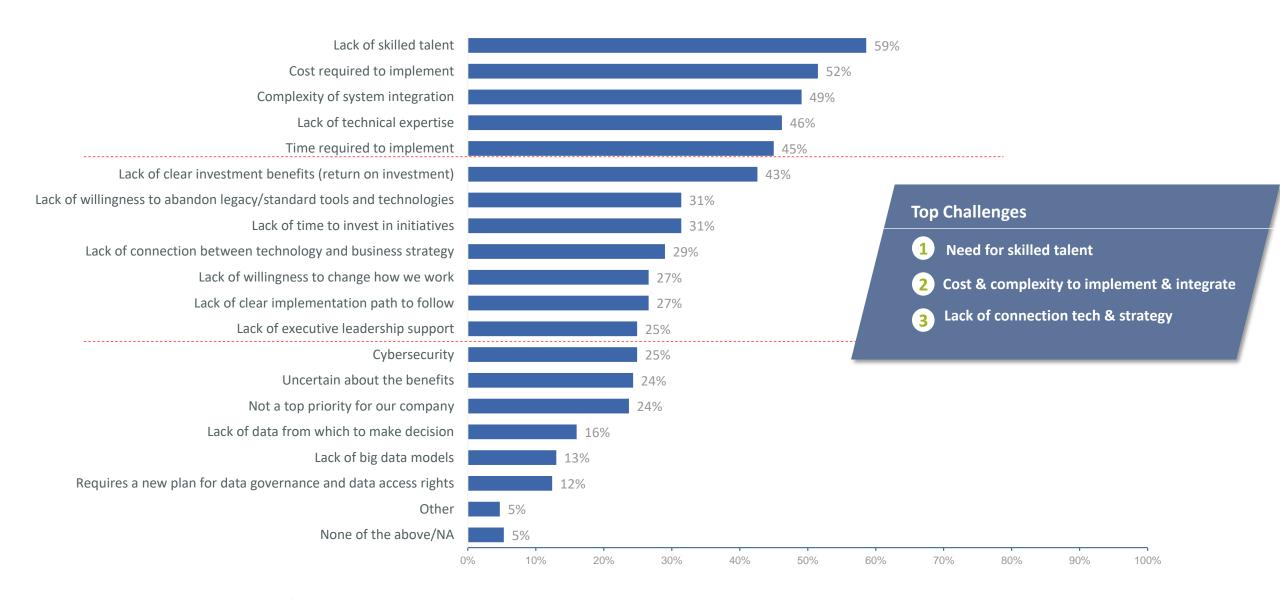


Global Manufacturing Competitiveness Index



Source: Deloitte

Challenges to achieving Smart Manufacturing



Insufficient Investments Despite Need



Three-quarters (76%) say their company does not have a talent development strategy for manufacturing employees



Only two out of five (41%) acknowledge their company trains people to develop the right knowledge and skills



Only about half of companies evaluate critical job tasks with structured evaluations



Only 28% say their company provides employees with training that meets the organization's <u>needs for the future</u>





Reskilling needs



of current workers' core skills are expected to change in the next 5 years.

Source: Future of Jobs Report 2020, World Economic Forum.

Technology. People. Work.







Confluence of People and Technology

Disruption of How we Work



Top 10 skills of 2025



Analytical thinking and innovation



Active learning and learning strategies



Complex problem-solving



Critical thinking and analysis



Creativity, originality and initiative



Leadership and social influence



Technology use, monitoring and control



Technology design and programming



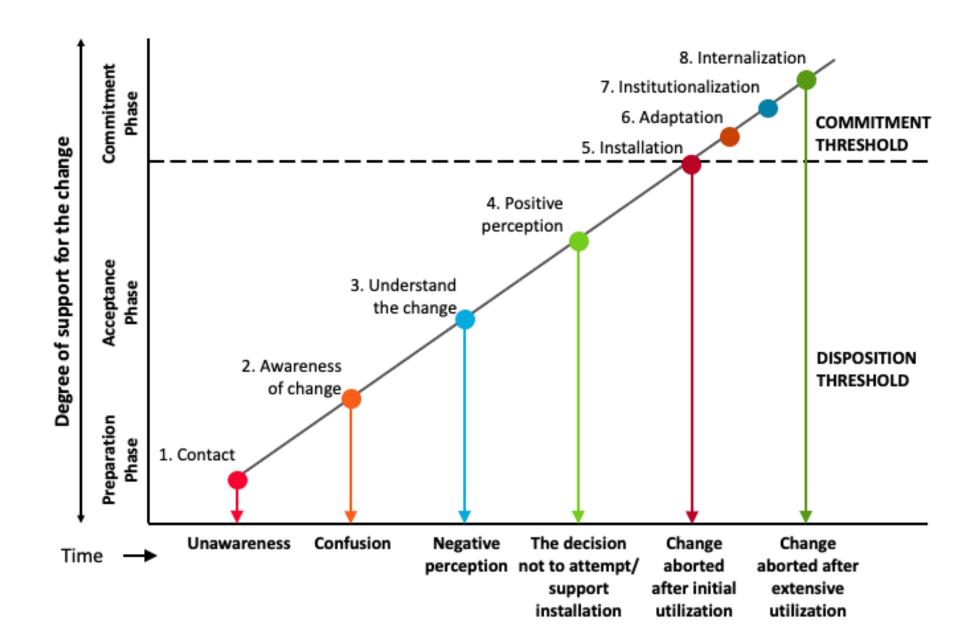
Resilience, stress tolerance and flexibility



Reasoning, problem-solving and ideation

CULTURE

DARYL CONNER 8 STAGES OF CHANGE



Partnering for Impact



Attract/Diversify

Educate/Train

Retain

"If we were to today, snap our fingers and have ten new fabs with the world's leading chips, we probably wouldn't have enough people to staff them. That's the biggest bottleneck to the expansion of America's fab capacity, not capital."

Scott Kennedy, Senior Advisor

Center for Strategic and International Studies
The US is spending billions to boost chip manufacturing. Will it be enough?

CNN Business Media, Oct 18, 2022

Closing Thoughts...

- 1. Human capital must be a top priority
- 2. Consider the whole ecosystem of roles, education institutions and communities
 - Production roles, 2-year and high schools
- 3. Have clear specifications to what qualifications and quantity is needed
 - Current, future and educators
- 4. Ensure the ecosystem can support it identify where and how
- 5. Utilize technology in all learning and workforce development
- 6. Design for adoption and scale: Think nationally. Act locally. Scale aggressively
- 7. Innovation everywhere.
- 8. Unprecedented collaboration



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