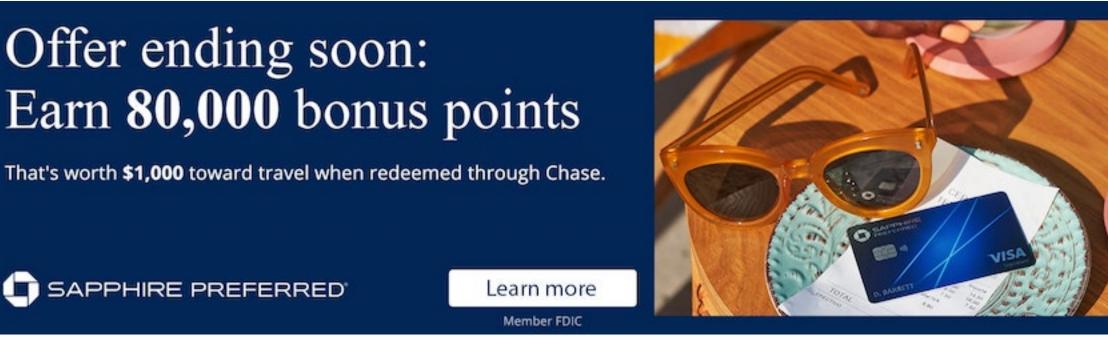
FORBES > INNOVATION

in

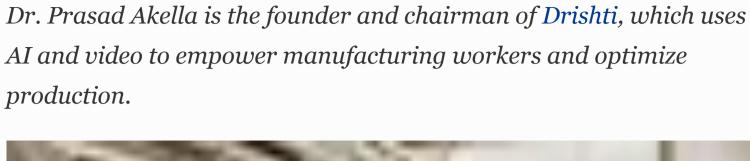
Q

**BETA** 



## **Can Stymie Innovation And** How To Fix It Prasad Akella Forbes Councils Member Forbes Forbes Technology Council COUNCIL POST | Membership (Fee-Based) May 3, 2022, 07:30am EDT

Why Labor-Based ROI Models





In this article, I discuss: • How direct labor-based cost models hobble manufacturing's innovation potential. PROMOTED Iris Powered by Generali Cisco BRANDVOICE Otsuka BRANDVOICE | Paid Program | Paid Program BRANDVOICE | Paid Program **Cloud Native Moves To** 3 Initiatives Underway To This Cybersecurity CTO **Shares 5 Tips To Better Make Now** Transform America's **Mental Healthcare System Protect Your Customers** • The role customers play in driving new thinking about ROI.

• Changing the entrenched mindset of headcount reduction when

A fundamental assumption in manufacturing today is that the biggest

efficiency improvements come from automation and eliminating

years and comes with no headcount reduction, odds are the project

through the lens of holistic value creation instead of what it costs

divided by how many jobs it will eliminate.

evaluating innovation.

won't be funded.

MORE FROM FORBES ADVISOR

**Best Travel Insurance Companies** 

people, with ROI based on how quickly and how many people will be replaced. If new technology is estimated to cost \$2 million over three

The Drawbacks Of Direct Labor Reduction ROI

By Amy Danise Editor Best Covid-19 Travel Insurance Plans By Amy Danise Editor

This singularly focused approach eliminates the essential component

that drives competitive advantage in operations: humans. Although

there's chatter about how robots and automation will eliminate the need for people in manufacturing, the reality is that people bring skills

• Think creatively to improve the process.

irreplaceable by technology. A well-trained person can:

• Adapt as conditions change to keep the process running.

**Forbes Innovation** 

If you want to accelerate the benefits promised by digital

Five Months Later After, 'Warrior Nun' Fans

transformation, stop asking, "How much of my direct labor cost will

When applied to the \$2 million investment above, that shift in

thinking means looking at how the investment contributes to

reaching implications for everything from cost to customer

increasing the value of the finished product. For example, a 10%

productivity improvement and 5% quality improvement have far-

this technology save me?" and start asking, "How much more value will this technology deliver to me, my employees, my customers and

my shareholders?"

experience.

**Metrics** 

relationships).

Won't Give Up On Season 3

• Collaborate to solve problems holistically.

Now, think about additional ROI in terms of efficiencies gained by reducing training hours and the time required for manual data collection or root cause analysis and increasing the speed of continuous improvement gains. Clearly, that \$2 million investment has the potential to drive massive gains across the operation and

could easily multiply the returns over the long-term, whereas a short-

**Driving The Value-Based Mindset Starts With Very Different** 

In 2016, Klaus Schwab, founder and executive chairman of the World

customers are increasingly at the epicenter of the economy, which is

Economic Forum, wrote, "Whether consumers or businesses,

term labor removal model would quickly plateau.

all about improving how customers are served. Physical products and services, moreover, can now be enhanced with digital capabilities that increase their value." When viewed through the customer lens, metrics that capture the impact of digitally enabled capabilities include improved quality and reduced prices. For manufacturers, these metrics include increased process visibility, reduced scrap/rework, less time spent gathering

data, satisfied employees/job growth, reduced tangibles such as a

warranty pool reduction and intangible improvements (e.g., fewer

Buyers know that value is multidimensional and includes purchase

The mindset and culture focused on eliminating headcount have been

so central to measuring ROI in manufacturing for so long that it will

price, functionality, quality and repairability. So, if buyers spend

based on multidimensional value, why don't manufacturers?

take work to change. Cultivating a new model built on the

recalls, increased brand/reputation strength and better supplier

multidimensional value that customers seek will be worth the effort. **Making Change Happen From The Inside** Progressive plant managers intuitively see the multiple value propositions but struggle to drive a shift. Their challenge? Getting their controllers to think differently about ROI. Here are four strategies to shift their mindset:

• Demonstrate that use cases are cumulative. The project

compounded gains from a single deployment. The more use cases

and, therefore, the net ROI is A+B+C. But manufacturing is an

should touch on multiple use cases that layer on one another, driving

delivered by the same investment, the higher the ROI. The traditional

view is that new technology will drive value from A, B and C use cases

interconnected system, so value isn't realized in isolation. Value from

A also drives value in B and C. If standardized work improvement technology boosts training (A), it also increases productivity (B+A) and quality (C+A). The value of that technology is exponential—and

model.

the control.

- Educate on the new mentality. From the factory floor to the Csuite, talk to, teach and train everyone on how and why this approach will satisfy the unique requirements of his or her particular stakeholder interests. The plant manager cares mostly about productivity and efficiency, whereas the CFO wants increased margins and lower warranty risk exposures. Speak to those audiences contextually using their lexicon and hitting on their pain points. • Be scientific. Select technology with clear benefits and ensure the generalizability of the results can be sold and evangelized. Then, assemble a team with representation across the organization-from the plant level to IT to the executive level. As in the scientific method, test new technology against a control to show clear ROI. If you really want to eliminate doubt, consider multiple simultaneous tests against
- faster, deeper and longer-lasting returns. Ultimately, when you align thinking to the many dimensions by which customers assess value, new ways to more accurately capture ROI follow. The new mindset is built on the recognition that there's greater value to be created with the digital technologies that define Industry 4.0 than simply reducing direct labor costs.

Forbes Technology Council is an invitation-only community for

world-class CIOs, CTOs and technology executives. Do I qualify

Follow me on Twitter or LinkedIn. Check out my website.

• Evangelize the results. Change doesn't happen overnight, and it

doesn't happen at all if you don't talk about it. Share project successes

broadly and explain how the new way of thinking about ROI led to

Dr. Prasad Akella is the founder and chairman of <u>Drishti</u>, which uses AI and video to empower manufacturing workers and optimize production. Read... Read More

**RELATED TOPICS 01.** LOCAL DENTIST REVIEWS

**Prasad Akella** 

NO EXPERIENCE WORK FROM **HOME JOBS 08.** BIG DATA ANALYTIC TRENDS

SIMPLE BUSINESS PLAN TEMPLATE

10 of the Fortune 100

Personalization

THE FUTURE OF ARTIFICIAL

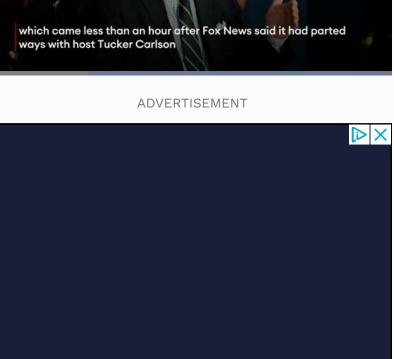
**INTELLIGENCE** 





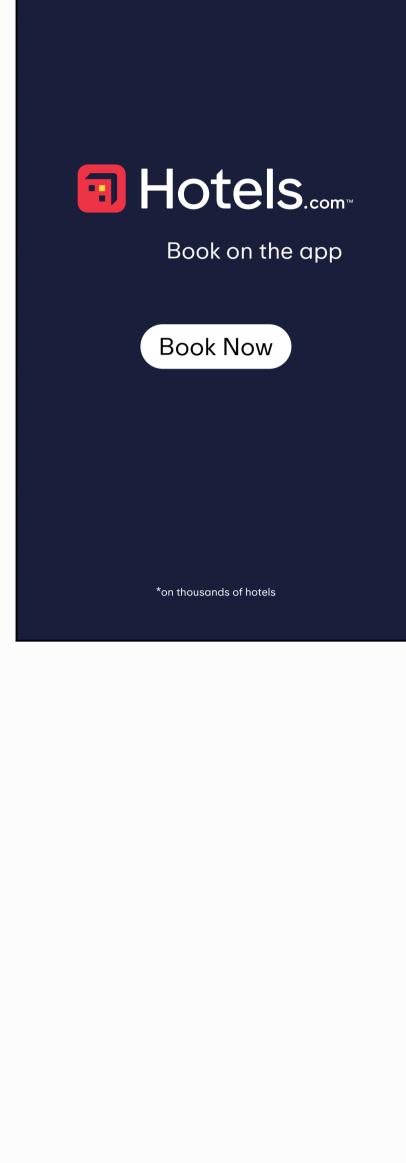
CD RIGHT NOW





■ Hotels.com
■ Book on the app **Book Now** \*on thousands of hotels

**ADVERTISEMENT** Hotels.com Book on the app **Book Now** 



it's additional value that would be missed with a traditional ROI

ARTIFICIAL INTELLIGENCE

\$20/HOUR WORK AT HOME

STOCKS

>

Editorial Standards Reprints & Permissions Print **ADVERTISEMENT** 

**JOBS** LATEST TECHNOLOGY **TRENDS** BEST JOBS FOR WOMEN OVER **SEE ALSO** 

Join the Leaders Jivox DYNAMIC CONTENT OPTIMIZATION