



Smart Manufacturing Adoption Research & Report Summary | 12.09.2022

SMART MANUFACTURING

ADOPTION IN WESTERN CANADA



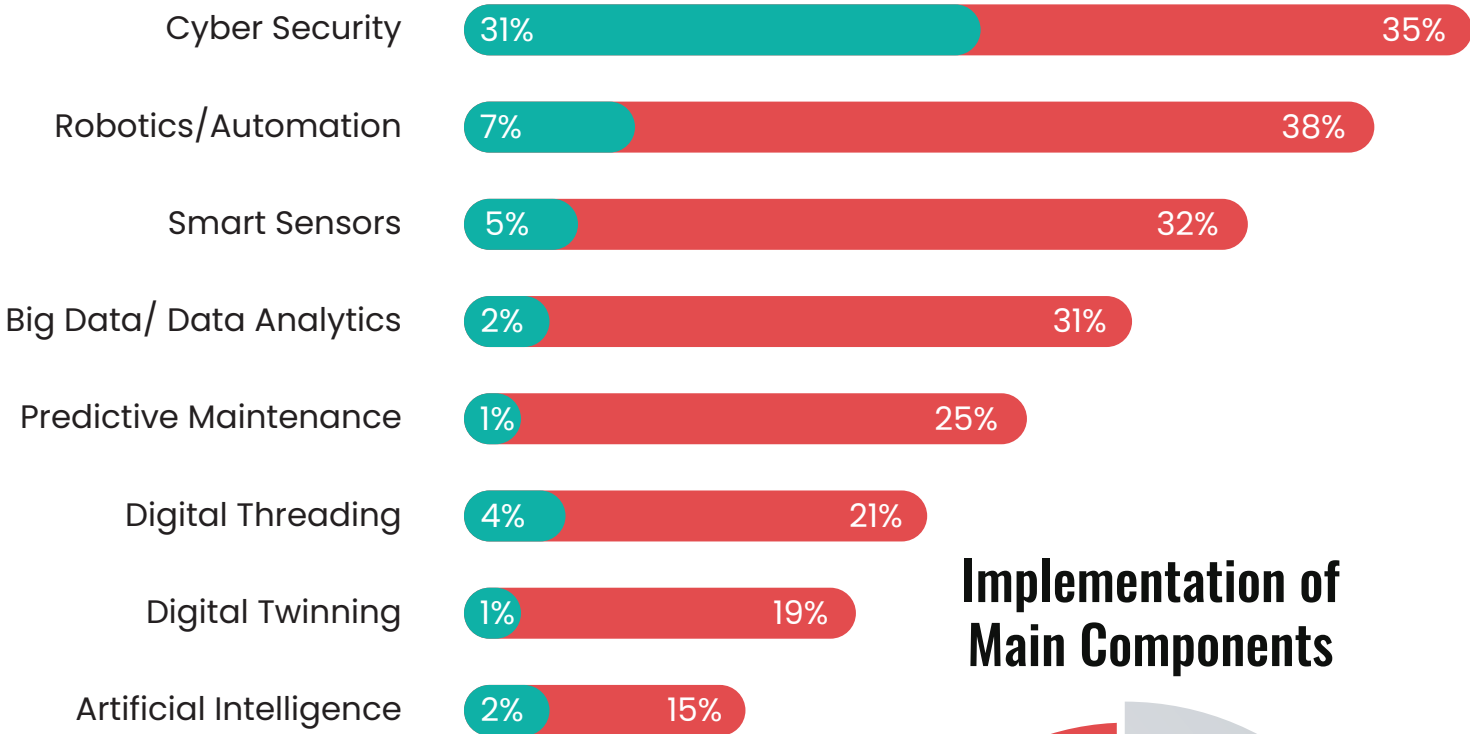
Problem Statement:

To what extent has the interconnection of technology and manufacturing penetrated manufacturing industries of **BC**, **AB**, **SK** and **MB**?

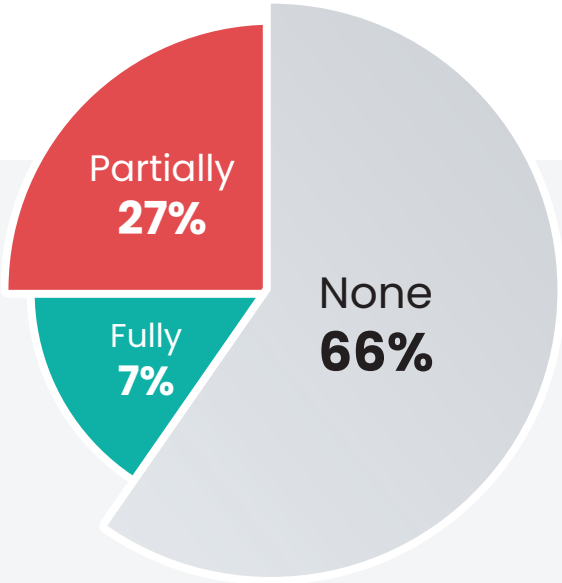
The current understanding and implementation of Smart Manufacturing components has tremendous room to grow.

Implementation of Main Components by Process

(*of those that implemented any)



Implementation of Main Components



The Insights:

93% of respondents have NOT incorporated main components of Smart Manufacturing AT ALL or to their FULL POTENTIAL.

WHO WE TALKED TO

Medium Enterprises (100-499 employees)

Generally they have implemented some Smart Tech and are interested in incorporating more as money and return on current investments make it possible.

New Small Enterprises (0-99 employees)

Very open to incorporating new tech, especially when they are in the pre-manufacturing stage.

Small Life-Style Companies

View Smart Manufacturing as unmanageable; it is too much of an investment or too much of new way of thinking.

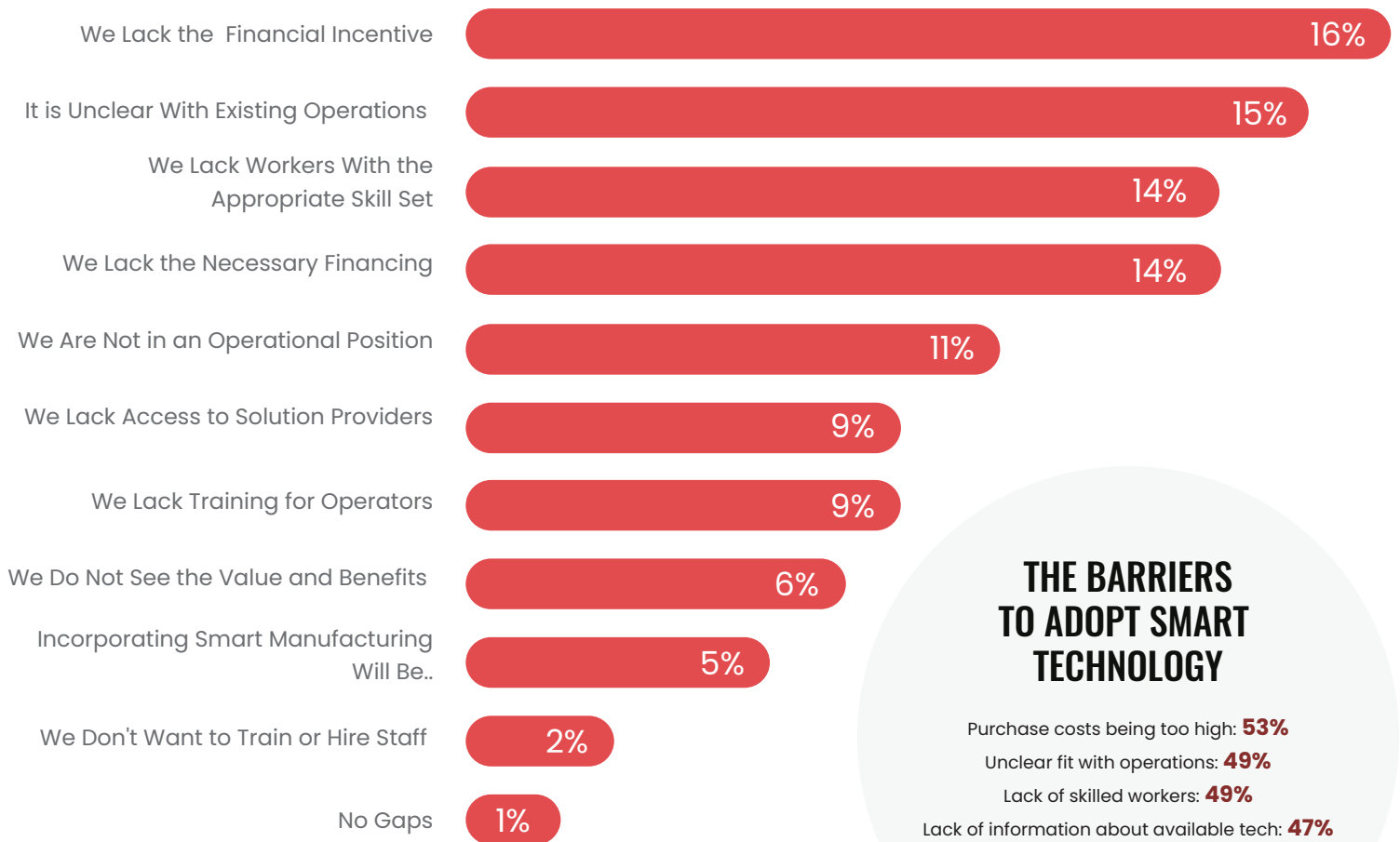
WHAT WE HEARD

“We’ve been in operation for thirty years doing things the way we’ve always done them, but now we have a new GM who is excited to try new things.”

“We’ve been in business for 20 years and began incorporating Smart Manufacturing tech five years ago beginning with communications, purchasing a CNC cutter, as well as interconnecting our machines. Right now, we’re incorporating our database.”

“We’re a manufacturer, focusing on what we make. We are not a tech company, why do we need Smart anything?”

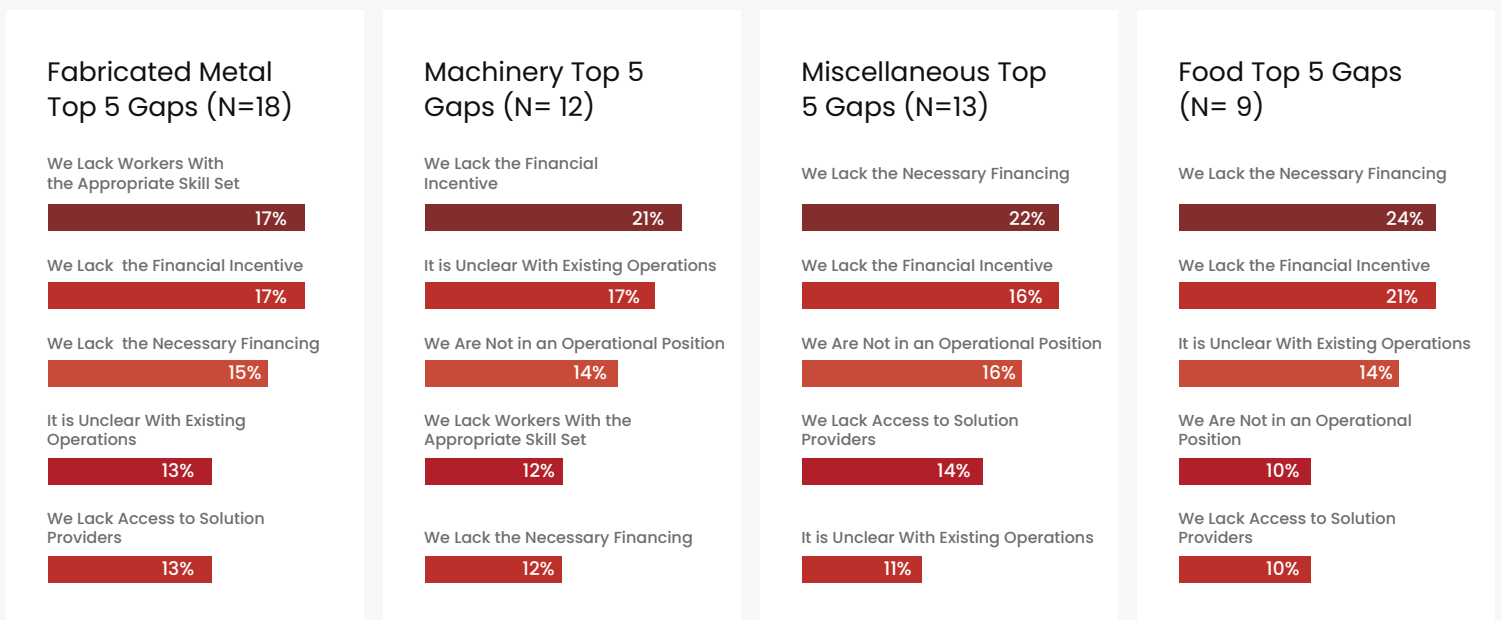
INDUSTRY GAPS IN ADOPTION OR IMPLEMENTATION



THE BARRIERS TO ADOPT SMART TECHNOLOGY

- Purchase costs being too high: **53%**
- Unclear fit with operations: **49%**
- Lack of skilled workers: **49%**
- Lack of information about available tech: **47%**
- Not having time to consider tech: **43%**
- Insufficient financial or tax incentive: **36%**

THE NUMBERS ARE IN

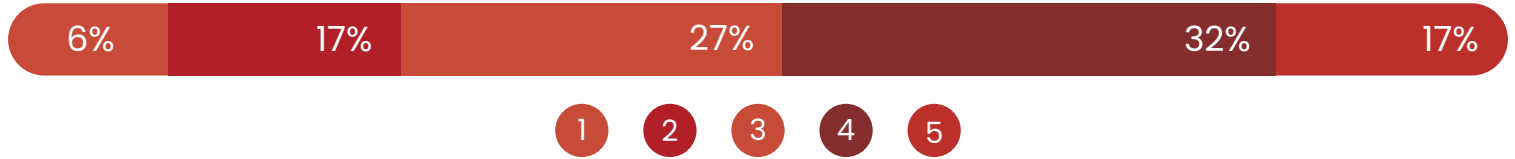


INDUSTRY GAPS IN ADOPTION OR IMPLEMENTATION

Current Understanding of Smart Manufacturing

1 - I am an expert

5 - I know nothing



There is a fundamental lack of understanding of the drivers of Smart Manufacturing and of the potential for these technologies and processes.

Smart Manufacturing greatly improves operational efficiency, minimizes machine downtime, drives advances in improved worker safety and optimizes inventory and supply chain management among many other benefits.

PERCEIVED VALUE OF EXISTING SMART MANUFACTURING COMPONENTS



Companies reporting Smart Manufacturing a great deal of impact

CHANGE MANAGEMENT TECHNIQUES



OUR MISSION

The Manufacturing and Export Enhancement Cluster (MEE Cluster) is creating a collaborative manufacturing ecosystem with companies, service providers and experts to help manufacturers understand and de-risk Smart Manufacturing technology implementation in order to THRIVE.

Research & Report Summary

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