



manufacturing  
Safety Alliance of BC



Manufacturing  
& Export  
Enhancement  
Cluster

# Using **5S** to Build Safer Workplaces

# What is 5S?

- Cleaning and Organizing program
- Started at Toyota
- Practiced worldwide



# What is 5S?

- A program that improves:

- ✓ Productivity

- ✓ Quality

- ✓ Employee morale

- ✓ Mental health

- ✓ **Safety**



# When You See 5S – You Know It

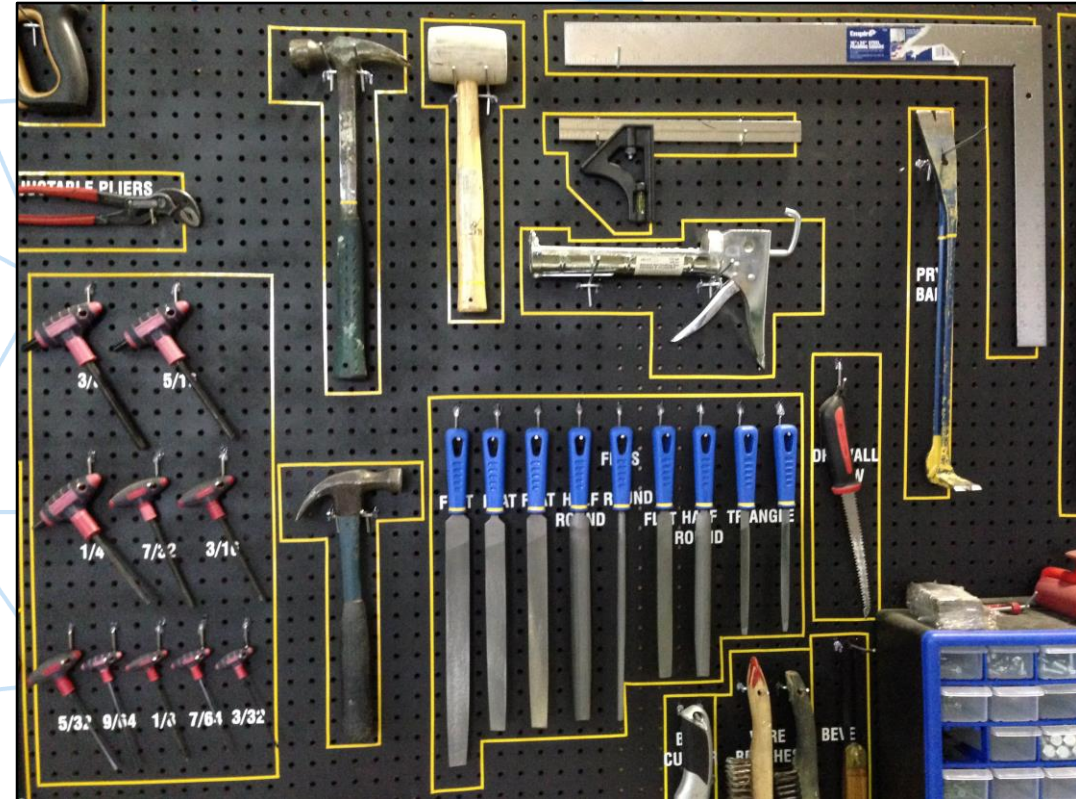
- Clean





# When You See 5S – You Know It

- Organized



# When You See 5S – You Know It

- Nothing is a struggle



# Iceberg Analogy for 5S

- Near misses
- Slips & Trips
- Accidents
- Injuries
- Mental Fatigue
- Frustration
- Sluggish business



Cluttered, Messy  
Business



# Why is 5S So Important?

1. First impressions matter
2. Improves productivity 25-50%
3. Reduces fatigue
4. Improves mental health
5. Improves **safety**



*Let's look at each of these reasons...*



# 1. First Impressions Matter

- Think of a business that you believe is “world class”
- Is it clean or dirty?



# First Impressions Matter

- Think of a business that you believe is “world class”
- Is it clean or dirty?





# First Impressions Matter

- This



# First Impressions Matter

- Or this





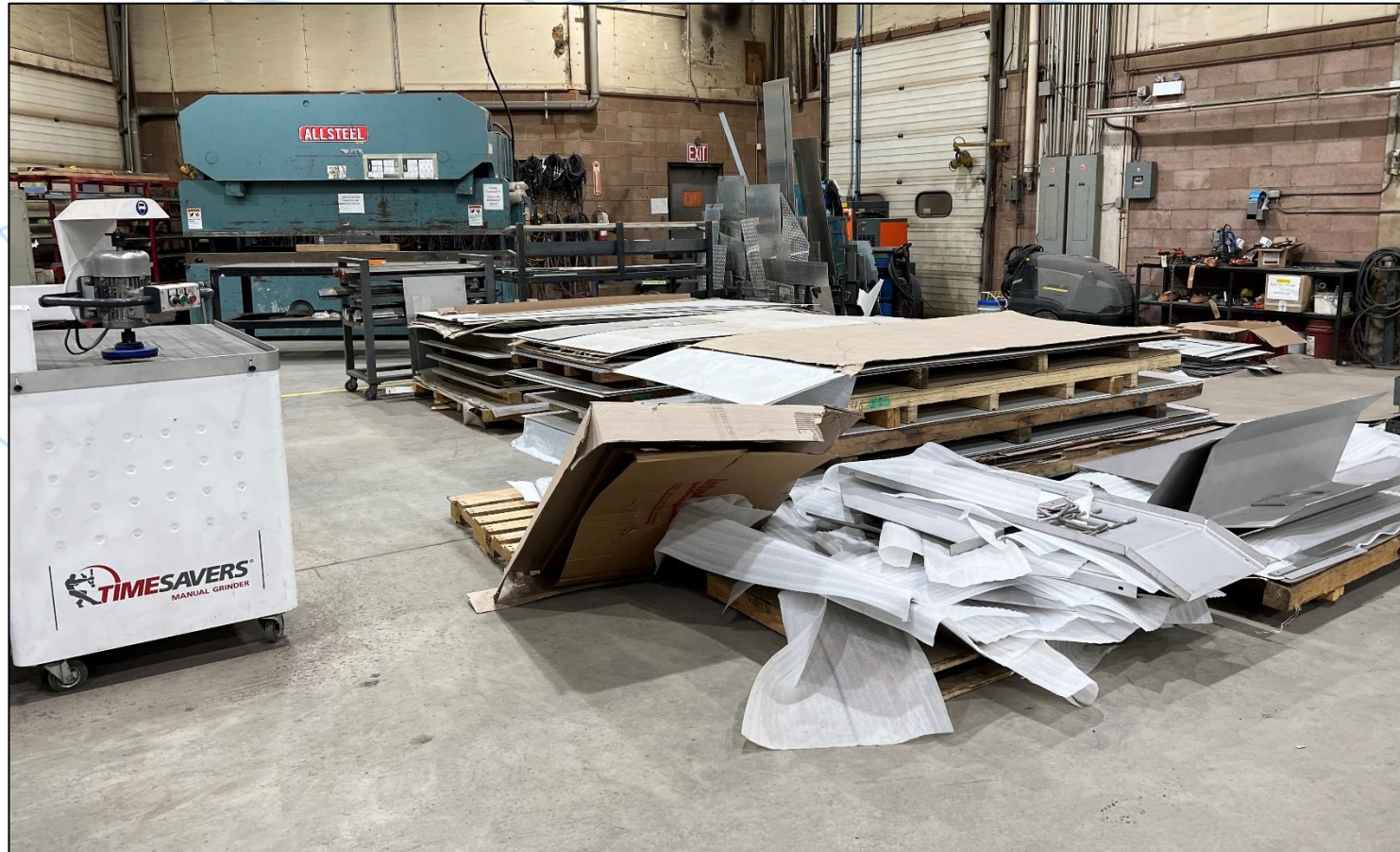
# First Impressions Matter

- This



# First Impressions Matter

- Or this





# First Impressions Matter

- This





# First Impressions Matter

- Or this





# First Impressions Matter

- This



# First Impressions Matter

- Or this





# First Impressions Matter

- This





# First Impressions Matter

- Or this





# First Impressions Matter

- Or this



## 2. Productivity Improvement

25-50%





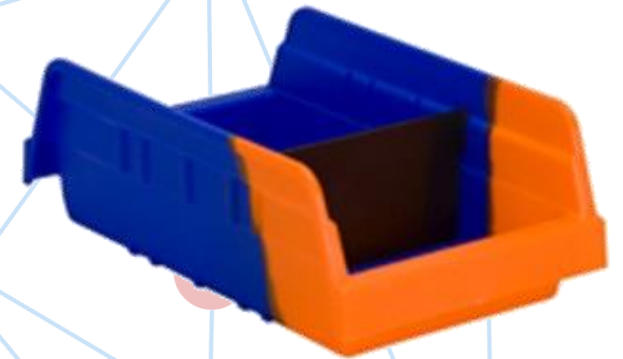
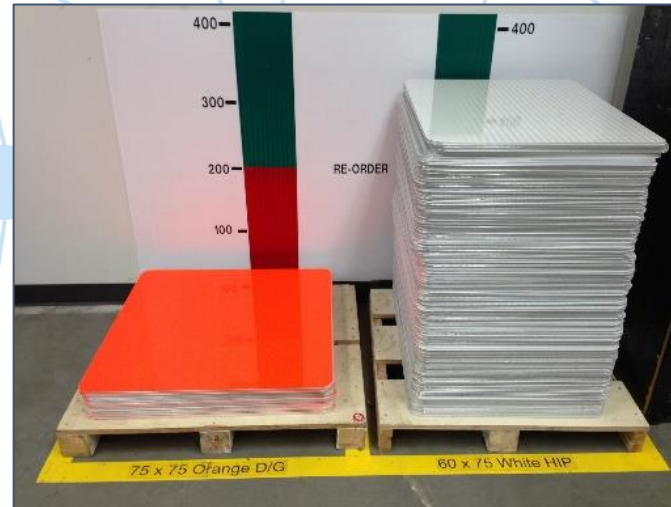
# Productivity Improvement

- Less time spent:
  - searching
  - struggling
  - looking for parts
  - looking for tools
  - moving things out of the way
  - walking long distances



# Productivity Improvement

- 5S promotes **“Instant Understanding”**







# Instant Understanding

- Tool identification





# Instant Understanding

- Shelf identification



# Instant Understanding

- Everything has a “home”





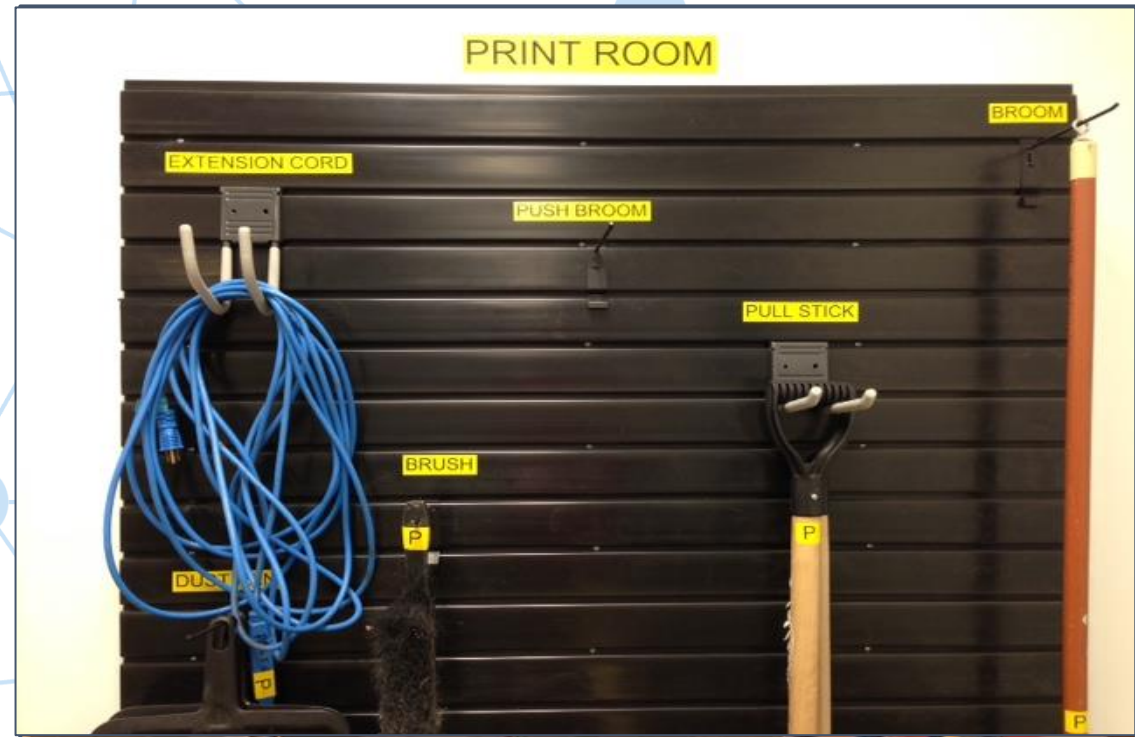
# Instant Understanding

- Everything has a “home”



# Instant Understanding

- Everything has a “home”





# Instant Understanding

- No “unanswered questions”



# Instant Understanding

- No “unanswered questions”





# Most Companies...

- Uncertainty
- Is there enough?
- Will we run out?
- Did someone order more?
- Mental fatigue



# 3. 5S Reduces Fatigue





# Reduces Fatigue

- A bat and ball cost \$1.10
- The bat costs one dollar more than the ball

**Q:** How much does the ball cost?

**Answer:** 5 cents



+



\$1.05

+

\$0.05

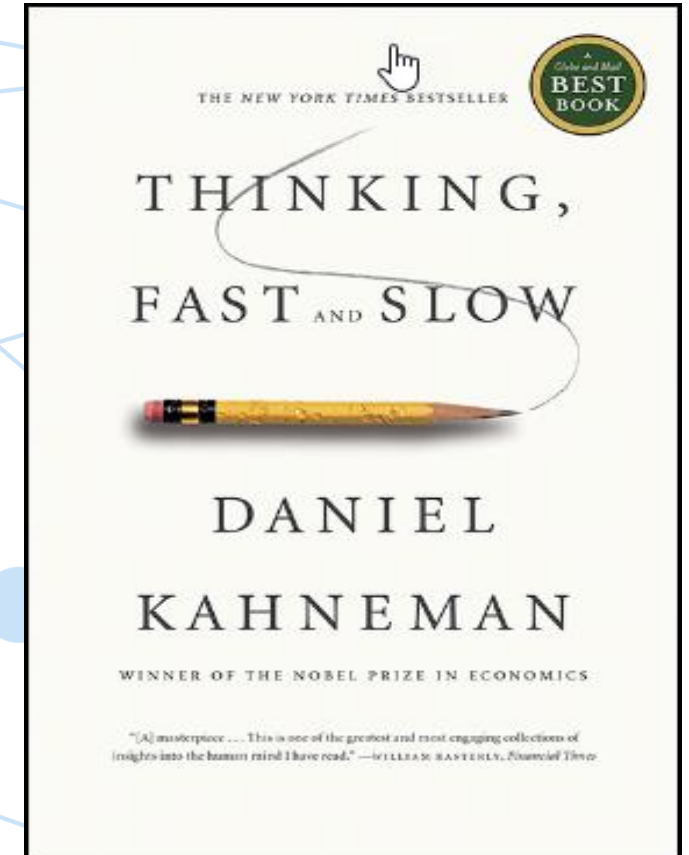
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**\$1.10**

- Humans are wired to choose the “easy way”
- Cognitive effort is hard!

# Reduces Fatigue

- Kahneman: studied decision making
- Thinking is tiring
- Looking, searching = like doing push-ups all day
- Struggling is tiring and stress inducing
- Auto-pilot is much easier
- 5S facilitates “auto-pilot”





# Want Proof?

I cnduo't bveleie taht I culod aulacly uesdtannrd waht I was rdnaieg. Unisg the icndeblire pweor of the hmuan mnid, aocdcrnig to rseecrah at Cmabrigde Uinervtisy, it dseno't mttar in waht oderr the lterets in a wrod are, the olny irpoamtnt tihng is taht the frsit and lsat ltteer be in the rhgit pclae. The rset can be a taotl mses and you can sitll raed it whoutit a pboerlm. Tihs is bucseae the huamn mnid deos not raed ervey ltteer by istlef, but the wrod as a wlohe. Aaznmig, huh? Yaeh and I awlyas tghhuot slelinpg was ipmorantt! See if yuor fdreins can raed tihs too.

## 4. 5S Improves Mental Health



# Improves Mental Health

Clean & organized workplace =

- ✓ less struggle
- ✓ less clutter
- ✓ every task is easier
- ✓ less workplace stress
- ✓ happier workers
- ✓ higher productivity
- ✓ higher morale





## 5. 5S Improves Safety

- Slip hazards



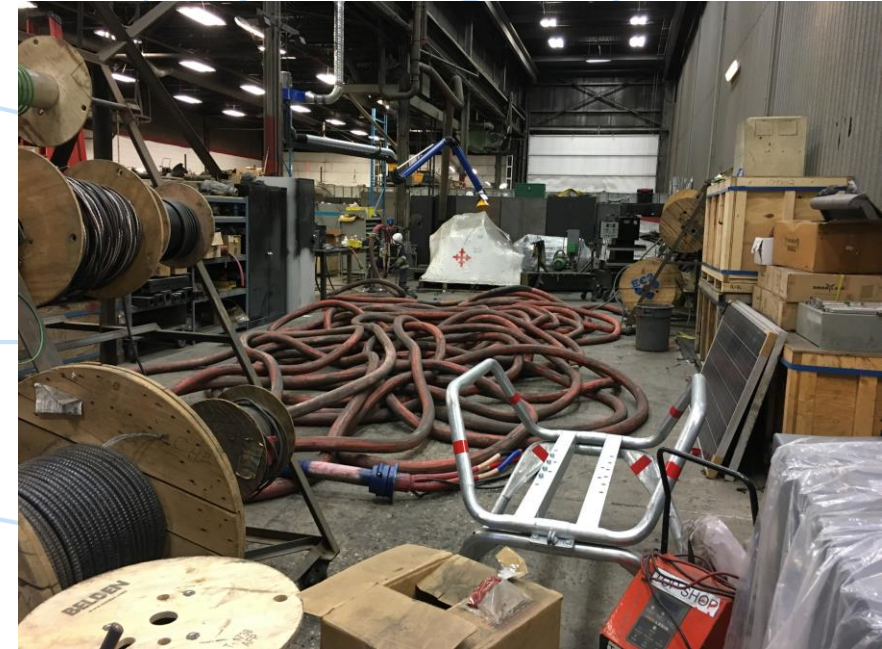
# Improves Safety

- Trip hazards



# Improves Safety

- Congestion hazards





# The Five “S”s

1. **S**ort
2. **S**et in Order
3. **S**hine
4. **S**tandardize
5. **S**ustain



# The Five “S”s

1. Declutter – everything!
2. Organize
3. Clean every day
4. Consistency
5. Management Support



# Recap: **5S** Benefits:

- Inexpensive
  - Huge payoff in:
    - ✓ Productivity
    - ✓ Speed
    - ✓ Quality
    - ✓ First Impressions
    - ✓ Worker happiness
    - ✓ Job satisfaction
    - ✓ Mental health
    - ✓ Morale
    - ✓ **SAFETY !**
- 

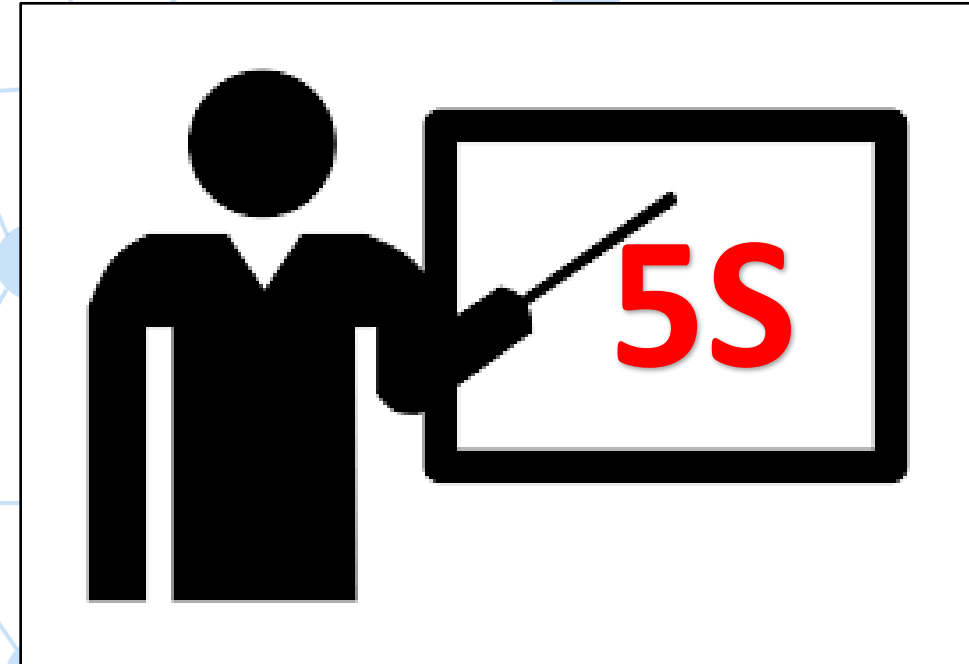


# Launching a 5S Program



## 2-day program:

- Teach 5S to entire organization
- Launch a successful 5S program
- Contact MEE



# “LEAN Accelerator” Program

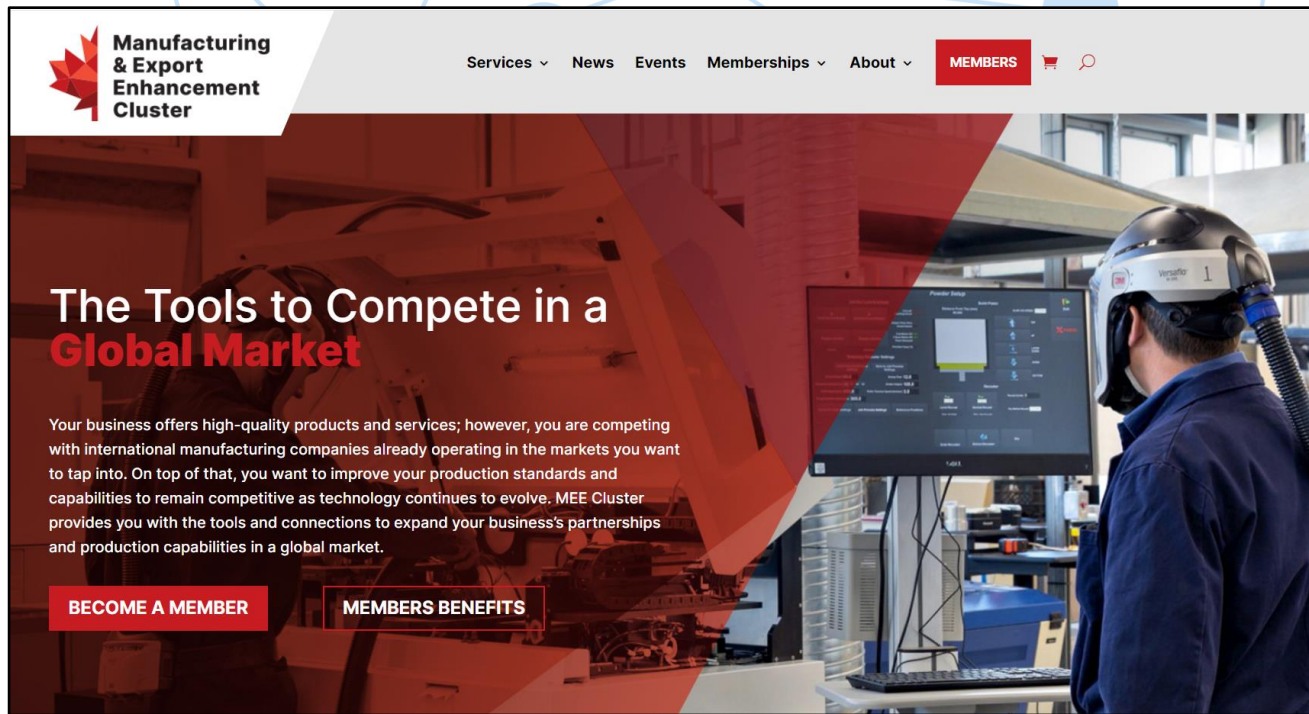


**1-2 days**

- Industry Assessment Technical Report
- Identify:
  - ✓ Short term
  - ✓ Medium term
  - ✓ Long term
- Improvement Opportunities
- Contact MEE



# MEE Cluster



## Contact MEE

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