



**Valeria (Val)
Laguna**

Tabler Station Manufacturing – Martinsburg, WV



Process Engineer



Line Leader



Material Process Delivery Senior Manager



Dish Making Senior Manager





MANUFACTURING



MANUFACTURING



Planes



Electronics



Chemicals

```
document.getElementById(div).innerHTML += "  
else if (i==2) {  
  {  
    var atpos=inputs[i].indexOf("@");  
    var dotpos=inputs[i].lastIndexOf(".");  
    if (atpos<1 || dotpos<atpos+1 || dotpos<1 ||  
    document.getElementById("errmsg").innerHTML += "  
  else  
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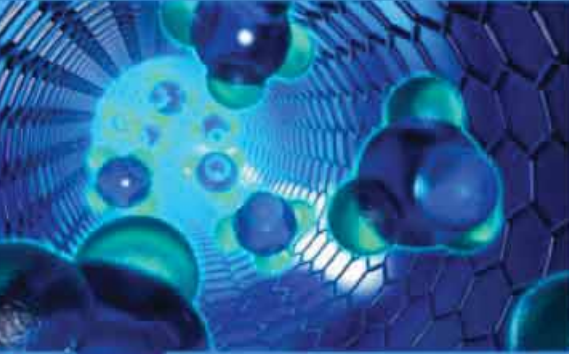
Software



Medicine



Material Movements



Materials



Structures



Machines

MANUFACTURING



Planes → Aerospace



Electronics → Electrical/Computer



Chemicals → Chemical



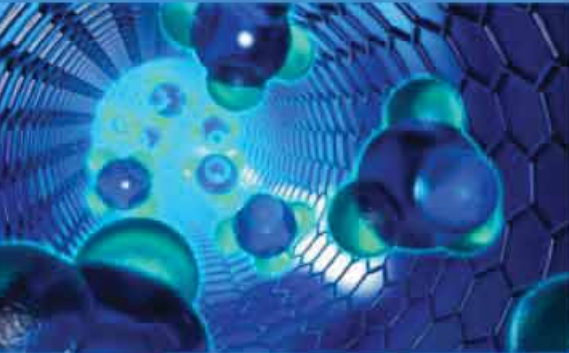
Medicine → Biomedical



Material Movements → Industrial



Software → Computer Science



Materials → Materials



Structures → Civil



Machines → Mechanical

MECHANICAL ENGINEERING





WE ARE P&G



A COMPANY OF LEADING BRANDS



**185
YEARS**

**PURPOSE
VALUES
PRINCIPLES**



Process Engineer

– Execute Process Improvements

Establish Base Condition

Project Start-Up

Loss Elimination



Line Leader

– Manage Line Reliability

*Decrease Planned
Downtime*

Line Changeovers

Daily maintenance cycles

Creating Standards

*Decrease Unplanned
Downtime*

Building Capability

Finding/Fixing Defects

Creating Standards



Material Process Delivery Leader

– Transformation Expert

Material Qualifications

Validating Process Changes

Innovation Execution



65
LEADING
BRANDS

76.1 MM
NET
SALES

5B
CONSUMERS
USE OUR
BRANDS

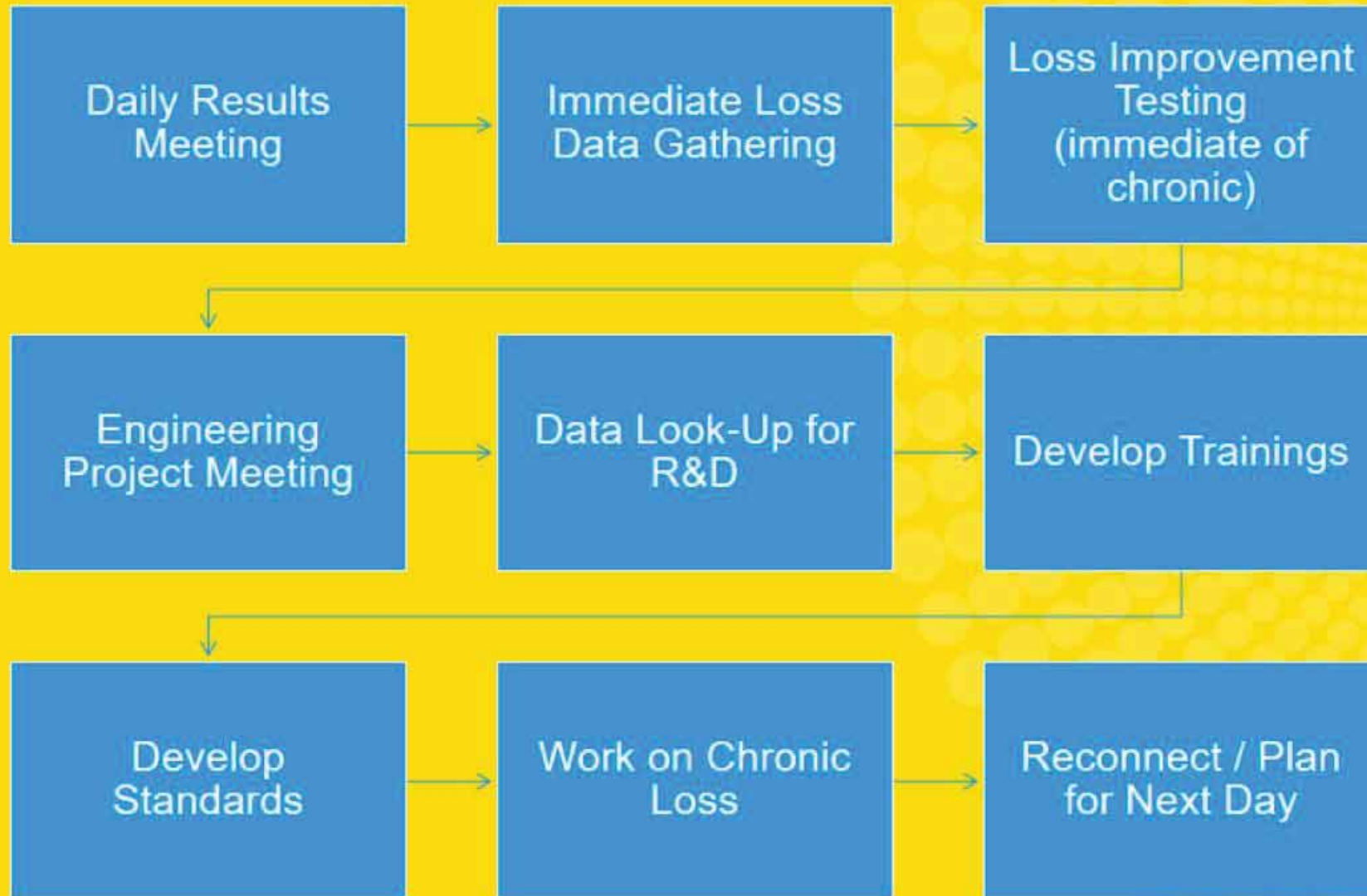
180
COUNTRIES
SELL OUR
BRANDS

>145
NATIONALITIES
MAKE UP OUR
WORKFORCE

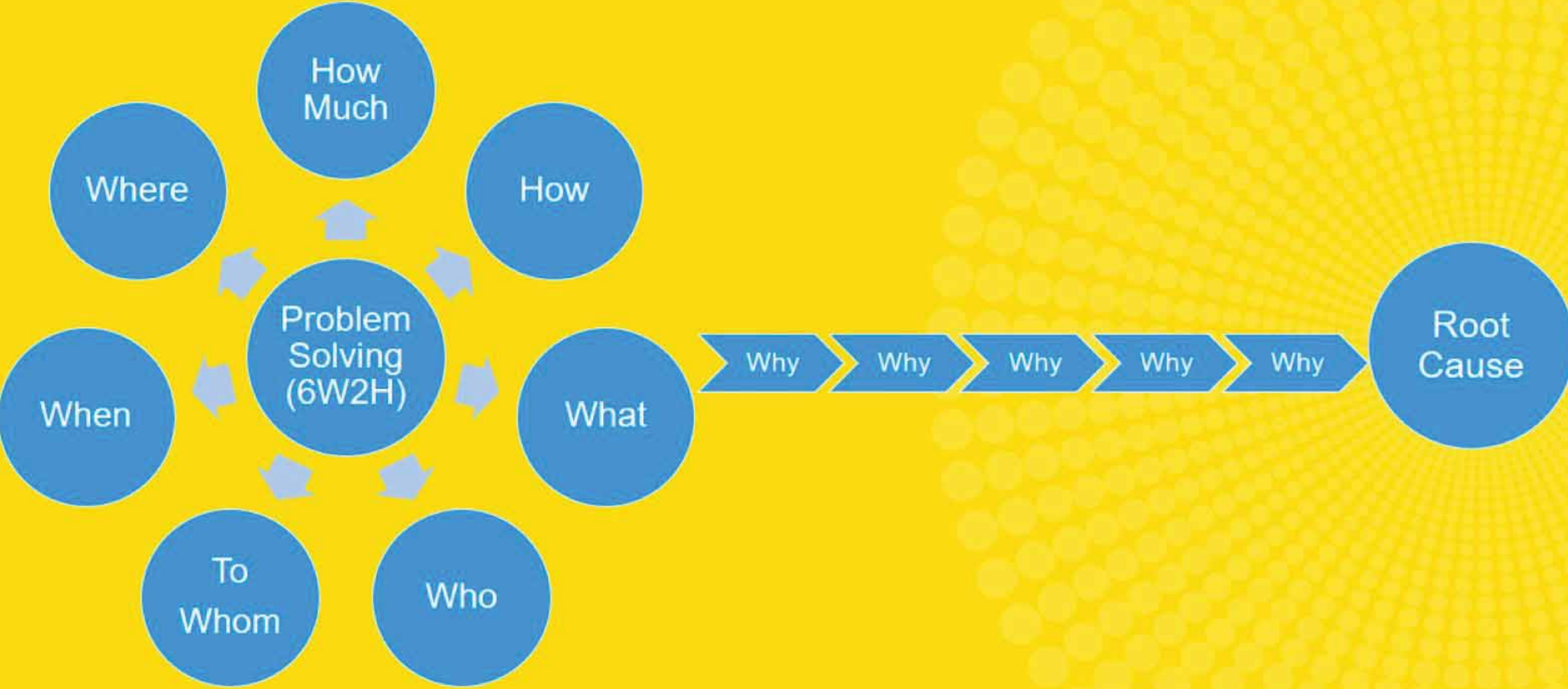
40K
WOMEN
AND
GROWING

Process Engineer

– Execute Process Improvements







Example 1 – Materials

Problem Statement

- Dented bottles detected on the lines, causing spilled product, not meeting quality requirements

Immediate Actions

(How, How much, Where, When, Which, Whom, Who, What)

- Inspect equipment, inspect incoming bottle pallets
- Defect only found on corner bottles
- Defect only on certain sizes

Root Cause and Actions

(why)

- New stretch wrap is too sensitive to summer temperatures and shrinks against the pallet in between the cardboard layers
- Project testing completed in the winter, insufficient to capture year-around conditions
- Decrease wrapping tension in the summer
- Upgrade stretchwrap material



Example 2 – Recovering from Process Upsets

Problem Statement

- Out of specification product made, quality measure is too high

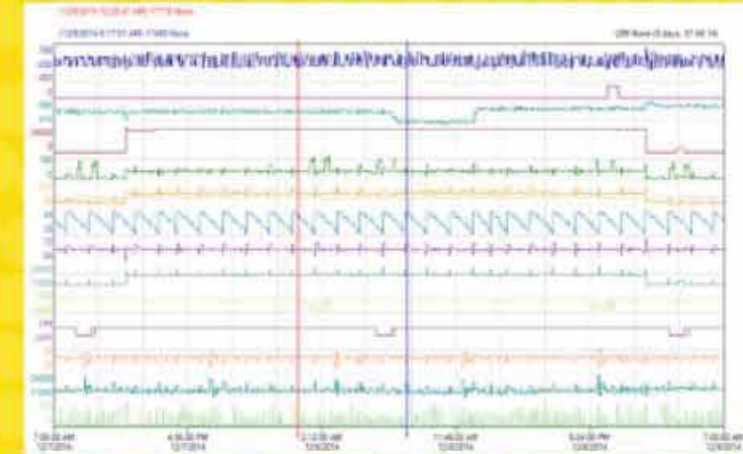
Immediate Action

(How, How much, Where, When, Which, Whom, Who, What)

- Understand what caused the out of specification material
- Evaluate if mixing can be used to balance material

Root Cause and Actions

- Track additional setpoints for production system and create interlocks
- Create mixing matrix to bring material back into specification



	Rail Car 1	Tank 1	Production
Inches	45	40	265
Quality	19	4.5	2
Total	855	180	530
Final Quality	4,471		

Example 3 – System Design

Problem Statement

- Insufficient cooling capacity causing product to be too hot and temperature increases shut down equipment

Immediate Actions

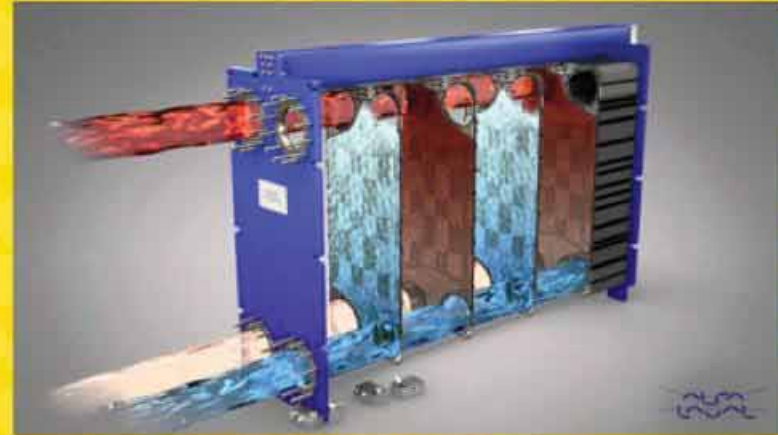
(How, How much, Where, When, Which, Whom, Who, What)

- Inspect equipment and centerlines
- Heat exchanger is not transferring as much heat as expected

Root Cause and Actions

(Why)

- Contamination in heat exchanger from chilled water system
- Insufficient design of the system creates excess contaminants
- Manually clean heat exchanger
- Upgrade chilled water system design



Example 4 – Process Improvement

Problem Statement

- Daily cleaning cycles on the equipment are rushed, inadequate, and stressful

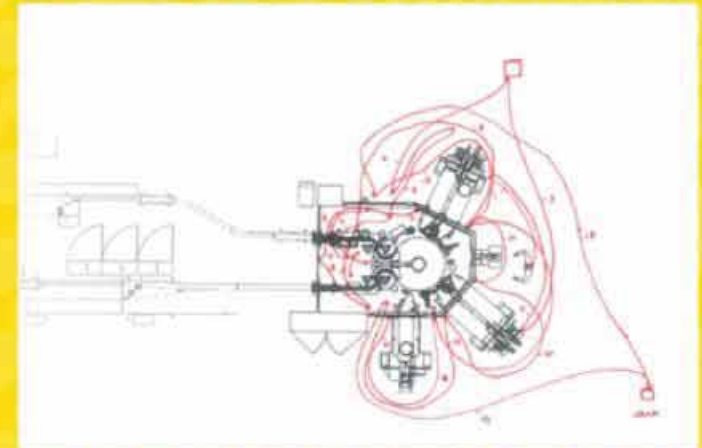
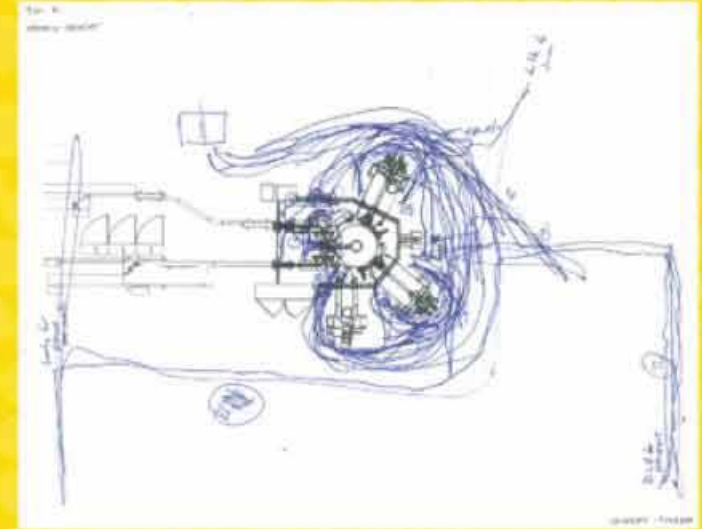
Immediate Action

(How, How much, Where, When, Which, Whom, Who, What)

- Observe multiple cleaning cycles
- Map people movements
- Audit tasks

Solution

- Optimize task order
- Optimize material placement
- Eliminate, combine, and reduce tasks



Example 5 – Setpoint Improvements

Problem Statement

- Case sealer stops – cases get stuck on multiple parts of the machine, have to run 5 different case sizes

Immediate Action

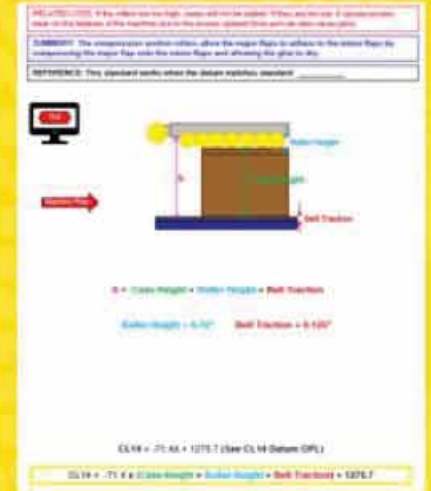
(How, How much, Where, When, Which, Whom, Who, What)

- Measure cases
- Measure machine parts
- Understand transformations and failures

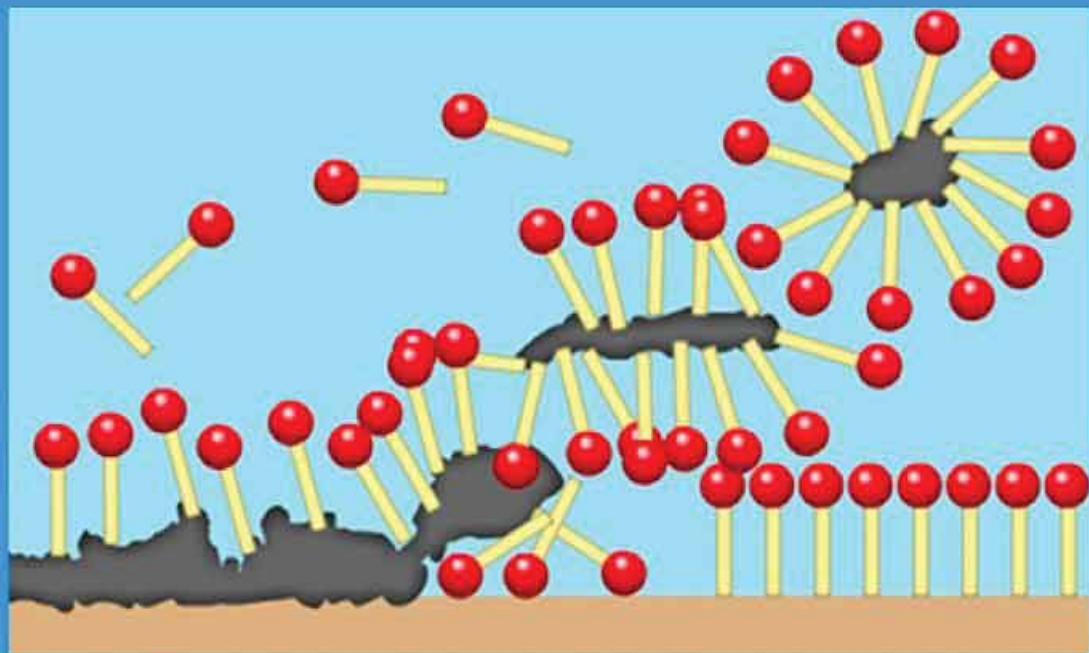
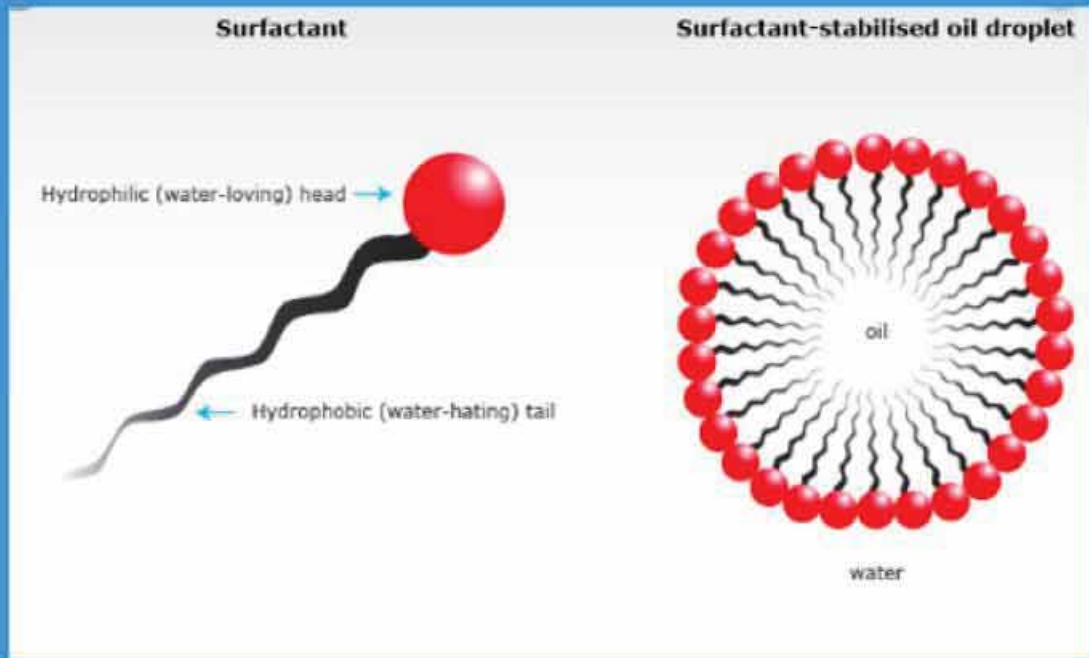
Root Cause

(Why)

- Create calculated setpoints for each machine area based on case size and machine components
- Reapply across all sizes







DEMOS

The Magic = Surfactant





**THANK YOU
QUESTIONS?**

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