# A3 Reports: Polishing the Elevator Speech

Tor Chamberlain
Clopay Plastic Products
October 31, 2012





#### Agenda



- Welcome
- Introduction of MBB Webcast Series
  - Larry Goldman, MoreSteam.com
- Today's Session
  - Tor Chamberlain, Clopay
- Open Discussion and Questions







#### MoreSteam.com

- Founded in 2000
- Trained over 375,000 Lean Six Sigma professionals
- Served over 2,000 corporate customers (including 50+% of the F500)
- First firm to offer the complete Black Belt curriculum online and only firm to offer online DfLSS
- Courses reviewed and approved by ASQ and PMI
- Academic Partnership with Ohio State University







#### Today's Presenter



#### Tor Chamberlain

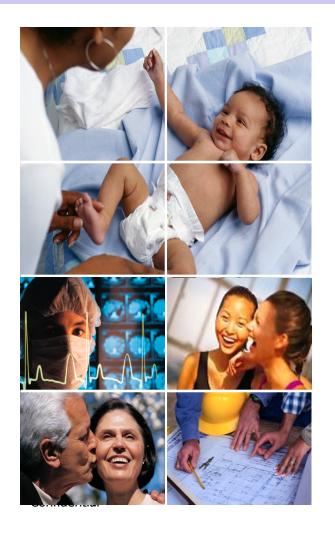
Engineering Manager, Clopay Plastic Products

- Provides Lean Six Sigma training across all of the Clopay businesses
- Mentors Black Belts in North & South American Clopay operations
- Bachelor of Science in Agricultural Engineering from Cornell University





### About Clopay



# Scientific curiosity is the lifeblood of Clopay ...

Clopay is a global leader in specialty films, extrusion coatings, custom-printing and engineered laminations.

Serving the hygienic, healthcare, protective apparel, and industrial markets.

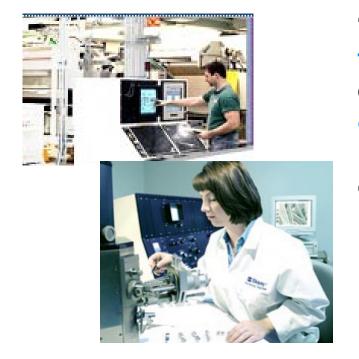


Today's Possibilities... Tomorrow's Reality





### A3: A Standardized Form of Currency



"A3 reports should become a **standardized form of currency** for problem-solving, dialogue, and decision-making ... creating an **organization of scientists** who continually improve operations and results through constant learning from the work at hand."

- Managing to Learn, John Shook





#### A3: Tool or Process?



#### Both.

- Problem solving/improvement tool
- Management process





#### Attendee Poll



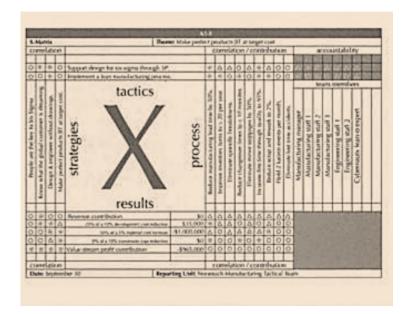
How does your organization use A3 Reports?

Does your organization use A3X Reports?





# A3X: The Big Picture



From Hoshin Kanri for the Lean Enterprise: Developing Competitive Capabilities and Managing Profit, Thomas L. Jackson

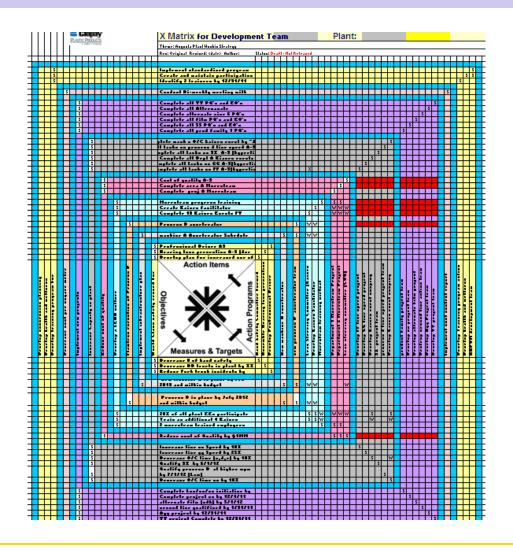
#### Also known as an X-matrix

- Bundles multiple A3s together
- Displays interdependencies
- Connects to bottom line results





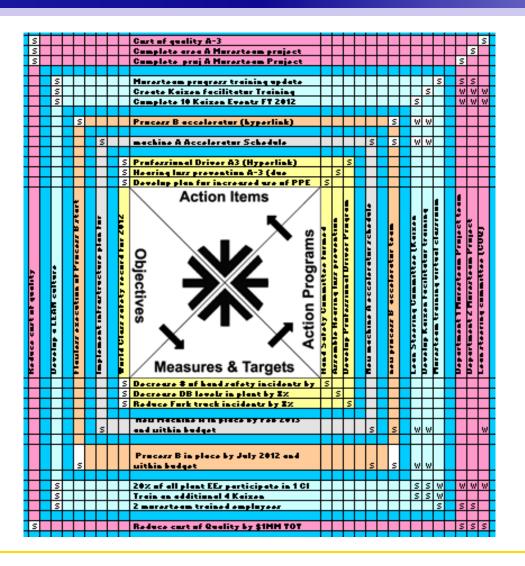
#### A3X: Home Grown at Clopay







#### A3X: How It Flows







# A3X: The Important Components







# A3X Components: Objectives

Develop succession planning
Develop health and wellness program
Develop training program for basic operations
Decrease cost per sugare meter
Implement new projects
Increase Capcity in plant
Develop a LEAN culture
Flawless execution of Process B start up
Implement infrastructure plan for machine A
World Class safety record for 2012
World Class safety record for 2012





# A3X Components: Measures & Targets

# **Measures & Targets**

Decrease # of hand safety incidents by 50%

Decrease DB levels in plant by X%

Reduce Fork truck incidents by X%

within budget

Process B in place by July 2012 and within budget

20% of all plant EEs participate in 1 CI event

Train an additional 4 Kaizen facilitators

2 moresteam trained employees

Reduce cost of Quality by \$1MM YOY





# A3X Components: Action Programs

# **Action Programs**

Assemble Hearing loss prevention committee Safety Committee formed

Develop Professional Driver Program

schedule eccelerator €[ New machine

accelerator process ne≅

Committee (Kaizen planning) program Develop Kaizen facilitator training ean Steering

classroom VITE 3 Moresteam training Moresteam Project team Project Moresteam Department 1

(COO) committee

steering ean





#### A3X Components: Action Items

Cost of quality A-3

Complete area A Moresteam project (hyperlink)

Complete proj A Moresteam Project (hyperlink)

Moresteam progress training update (hyperlink)

Create Kaizen facilitator Training standards

Complete 10 Kaizen Events FY 2012 (hyperlink)

Process B accelerator (hyperlink)

machine A Accelerator Schedule (hyperlink)

Professional Driver A3 (Hyperlink)

Hearing loss prevention A-3 (due date?)

Develop plan for increased use of PPE

**Action Items** 





#### The A3 Process







# The Clopay A3 Report Format

This section is important to accurately describe the THEME of our work. This sets the stage Once signed and dated by owner and Spenson/Mgs, this for defining the rest of the sections accurately bocomes an active project Sponson Water Background This section should include current Now do we determine the root-cause of ➤ 5-Why/Cause Map business situation, describe the the problem? Data should be used and process being improved or strategic Brief clear statement of the root-cause stated. > Fishbone, QC Tools, Charts > One or Two Bullet Points ➤ Use Visual Aids liberally need for project ➤ Kepner-Tragge when Normany Always use the simplest tool (Please delete before filling out) (Please delete before filling out) available to define the problem (Please delete before filling out) (Please delete before filling out) This section should include data Tips/Questions: Countermeature Options and Evaluation and descriptions of the current state of the process you wish to improve. Summarize > Visual At least 2 options (5-7 if possible) for ➤ Value Stream Map Try to "Grade" Options climinating the root-cause or solving the > Parete problem should be listed. This would also Define Clearly the Selected be the various options for product Countemeasure development or process solutions. > What is the Standard/Expected ➤ Performing to Std/Expected? > How is it impacting the "customer"? > Now is it impacting Strategic Goals? (Please delete before filling out) Problem Statement Countermeasure Selection and Follow-up What is the apecific issue to be improved, product Tign/Questions being developed or problem to apply, What's the pain/symptom (just the facts) After analysis of the countermeasure Gents Chart options, the countermessures selected (Please delete before filling out) Please delete before filling out) should be listed with owner, timing for Schodule Follow-up Meetings completion, etc. ➤ Detail the ACTIONS Tipa/Questions: What are the improvements to be achieved, > Brief (One or Two Bullet Points) resulting product to be developed or the final (Please delete before filling out) > How much will you improve? ревоски дражд (Please delete before filling out) (Please delete before filling out) (Please delete before filling out) Sponsor Completion Sign-off: Owner Completion Sign-off: \_\_ Internal Clopay Only: \_\_\_\_ No.





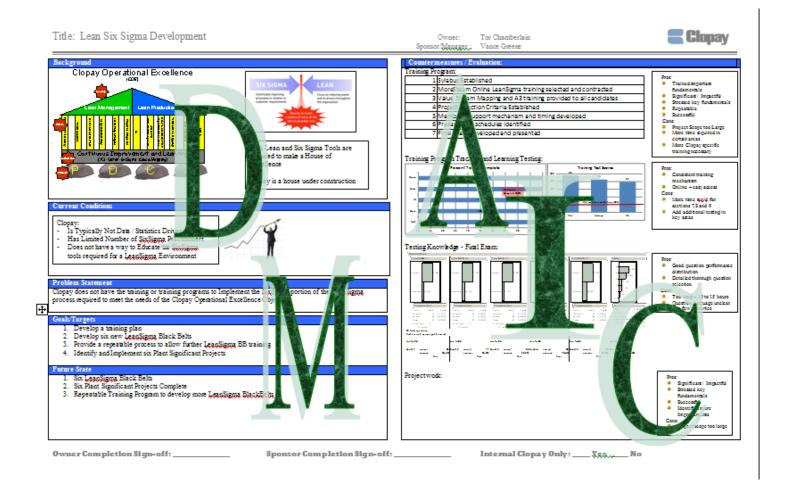
# The Clopay A3: Grounded on the Toyota Concept

- Size of the Paper A3 (or 11 x 17)
- Standardized Story-Telling
- Visual documentation of the problem-solving thought process and the dialogue between the owner of an issue and others with a vested interest
- Management Process for Approval of Projects
- "Method of creating an organization of scientists who continually improve operations and results through constant learning from the work at hand"
  - Managing to Learn, John Shook





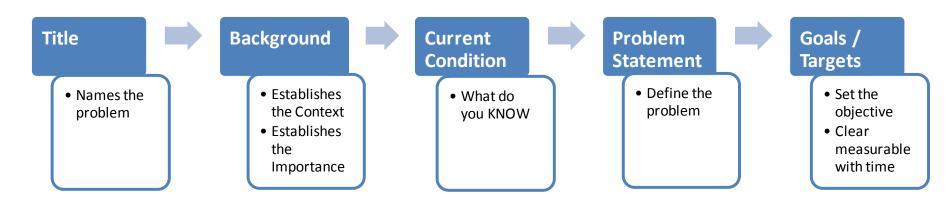
#### An A3 Process Example







#### A3 Process: Define & Measure – What?



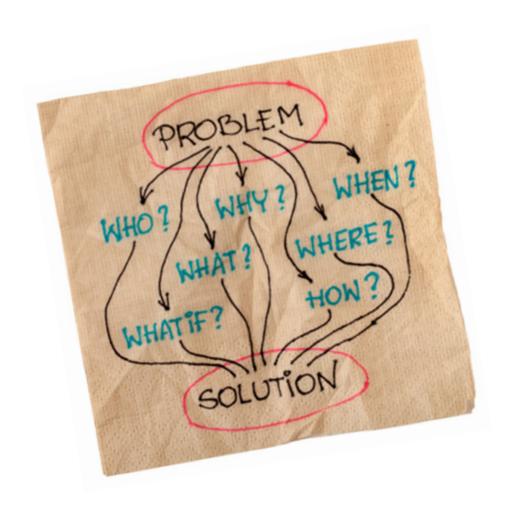
- What it delivers:
  - Clear Measureable Projects developed from the data
  - Project tracking mechanism
  - Single communication method
- What it Costs:
  - Discipline at the front end
  - Willingness to let the data decide
  - Patience

You must go slow in the beginning to go fast at the end.





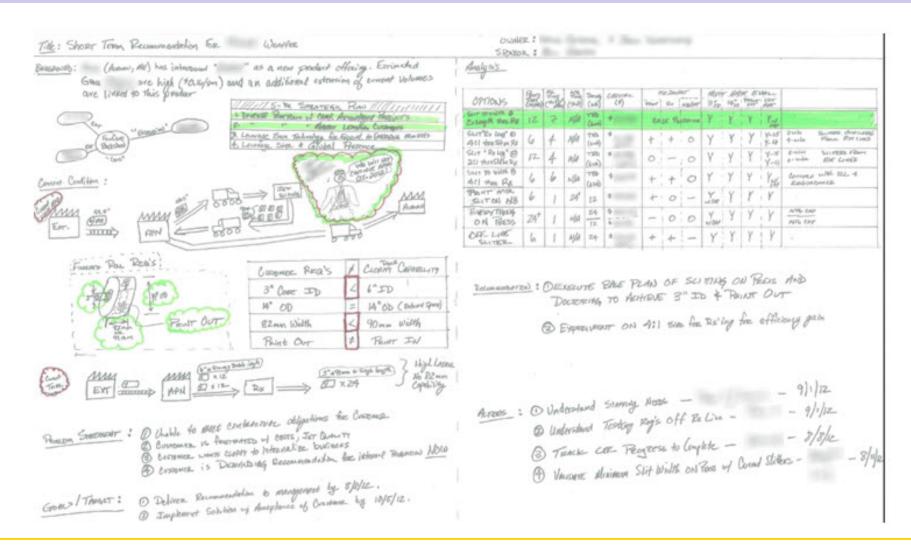
# Focus on the Problem, Not the Format







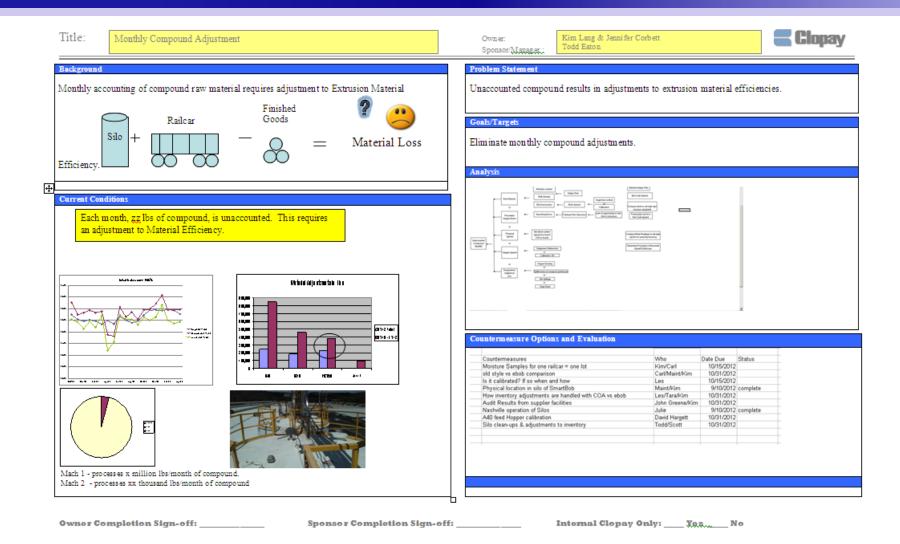
### A3 Report: First by Hand







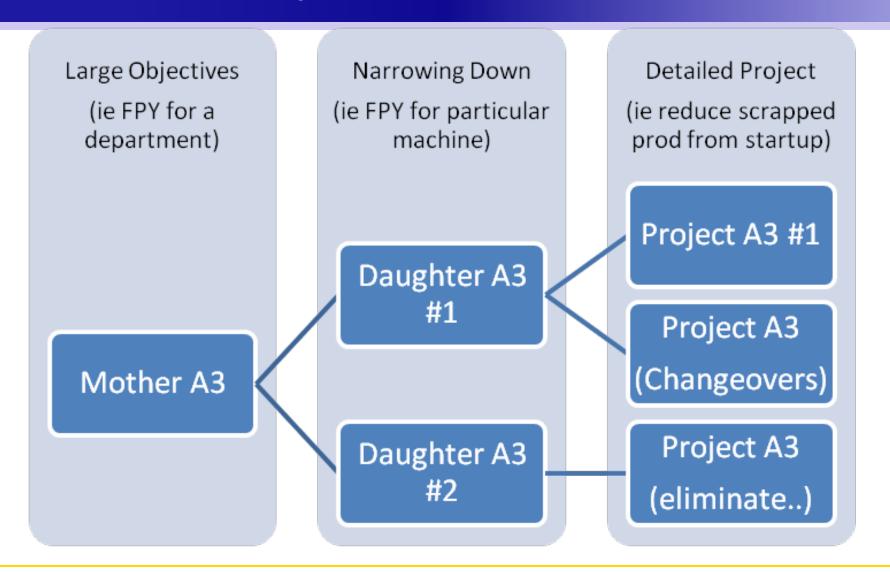
# A3 Report: Make It Pretty Later







#### A3 Report Family







# From Strategic Goals to Tactical Projects

Strategic Goals

Measures

**Action Programs** 

**Action Items** 

Action Item 1

Action Item 2

Action Item 3

Mother A3

Daughter A3 1

Daughter A3 2







#### Resources for Further Information







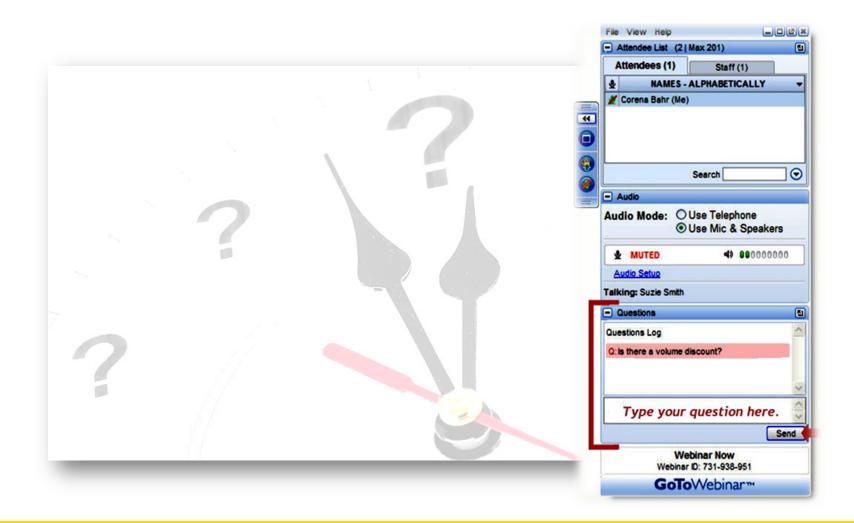
#### **Clopay Partners:**

- MoreSteam.com
- The Ohio State University
- Systems2win





# Thank You for Joining Us







#### Master Black Belt Program

- Offered in partnership with Fisher College of Business at The Ohio State University
- Employs a Blended Learning model with world-class instruction delivered in both the classroom and online
- Covers the MBB Body of Knowledge, topics ranging from advanced DOE to Leading Change to Finance for MBBs







#### Resource Links and Contacts

#### Questions? Comments? We'd love to hear from you.

Tor Chamberlain, Engineering Manager – Clopay Plastic Products <a href="mailto:TTChamberlain@clopay.com">TTChamberlain@clopay.com</a>

Larry Goldman, Vice President Marketing – MoreSteam.com lgoldman@moresteam.com

#### Join us for our next Webcast on November 28th:

"Things Your Teacher Never Told You about Test Optimization" – Neal Mackertich, Raytheon

#### Archived presentations and other materials:

http://www.moresteam.com/presentations/





# A3 Report Background and Current Conditions

Title:

This section is important to accurately describe the THEME of our work. This sets the stage for defining the rest of the sections accurately.

#### Background

This section should include current business situation, describe the process being improved or strategic need for project

(Please delete before filling out)

- One or Two Bullet Points

(Please delete before filling out)

#### Current Conditions

This section should include data and descriptions of the current state of the process you wish to improve.

(Please delete before filling out)

#### Tips/Questions:

- Summarize
- ➤ Visual.
- ➤ Value Stream Map
- Pareto

- What is the Standard/Expected
- Performing to Std/Expected?
- How is it impacting the "customer"?
   How is it impacting Strategic Goals?

(Please delete before filling out)





#### A3 Report Problem Statement and Goals

#### Problem Statement

What is the specific issue to be improved, product being developed or problem to solve

(Please delete before filling out)

#### Tips/Questions:

What's the pain/symptom (just the facts)

(Please delete before filling out)

#### Goals/Targets

What are the improvements to be achieved, resulting product to be developed or the final process specs

(Please delete before filling out)

#### Tips/Questions:

- > Brief (One or Two Bullet Points)
- ➤ How much will you improve?

(Please de lete before filling out)





### A3 Report Analysis and Counters

#### Analysis

How do we determine the root-cause of the problem? Data should be used and clear statement of the root-cause stated.

(Please delete before filling out)

#### Tips/Tools:

- > 5-Why/Cause Map
- Fishbone, QC Tools, Charts
- ➤ Use Visual Aids liberally
- ➤ Kepner-Tregoe when Necessary
- Always use the simplest tool available to define the problem

(Please de lete before filling out)

#### Countermeasure Options and Evaluation

At least 2 options (5-7 if possible) for eliminating the root-cause or solving the problem should be listed. This could also be the various options for product development or process solutions.

(Please delete before filling out)

#### Tips

- > Try to "Grade" Options
- Define Clearly the Selected Countermeasure

(Please delete before filling out)





# A3 Report Counters and Follow up

#### Countermeasure Selection and Follow-up

After analysis of the countermeasure options, the countermeasures selected should be listed with owner, timing for completion, etc.

(Please delete before filling out)

- ➤ Gantt Chart
- Schedule Follow-up Meetings
   Detail the ACTIONS

(Please delete before filling out)



