



**Eating the Elephant:
*Designing and Deploying Continual
Improvement in a Multi-Site
Environment***

**Bill D’Innocenzo, Fresenius Medical Care
July 25, 2012**

Agenda



- Welcome
- Introduction of MBB Webcast Series
 - Larry Goldman, MoreSteam.com
- Today's Session
 - Bill D'Innocenzo, Fresenius Medical Care
- Open Discussion and Questions



- Founded in 2000
- Trained over 350,000 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

Select Customers:



Honeywell

lenovo

XEROX

Hertz



CardinalHealth

TEXTRON

Today's Presenter



Bill D'Innocenzo

Vice President of Global IMPAQ, Fresenius Medical Care

- *Fresenius Medical Care is the world's largest integrated provider of products and services for individuals undergoing dialysis*
- *Network of dialysis clinics in North America, Europe, Latin America, Asia-Pacific and Africa*

Eating the Elephant

Designing and Deploying Continual Improvement
in a Multi-site Environment




Fresenius Medical Care

- World's leading company devoted to patient-oriented renal therapy
- A highly integrated company
 - Manufacture Medical Devices and Disposable Supplies
 - Manage Logistics and Transportation
 - Deliver Renal Therapy to Patients
- More than 45 Manufacturing Sites
- Own or Manage more than 2,700 Dialysis Clinics
- Serve more than 215,000 ESRD Patients
- Deliver more than 32M life saving treatments per year



FMCNA Facility Map Q1 2012

~ 2,040 Facilities & ~155K Patients

A map of the United States showing the locations of FMCNA facilities. The map is overlaid with a grid and labeled with state names. Numerous blue triangles and circles are scattered across the map, representing the locations of the facilities. The text 'The Challenge... Deploy Continuous Improvement to ALL Clinics... ASAP!' is overlaid in large, white, bold letters with a blue outline.

The Challenge...
Deploy Continuous
Improvement
to ALL Clinics...
ASAP!

The Approach

- Utilized a structured methodology
- Design for Six Sigma?
- At least some of the tools (DFSS-Lite)

Voice Of the
Customer

Critical
Requirements

Create &
Evaluate
Design
Concepts

Build &
Optimize
Models

Test &
Validate
Models

Deploy & CI

Define the Opportunity

- Problem Statement:
 - Rising medical care costs have put pressure on our industry to effectively reduce expenses while maintaining or improving the quality of care to our patients
- Business Case:
 - By deploying CI at the clinic level, FMCNA will be in a position to leverage the collective talent of 45K employees
 - Preliminary workshops focused on clinic organization (5S) has resulted in an averaged medical supply cost per treatment (CPT) savings between \$0.25 and \$1.50, *averaging 46¢*

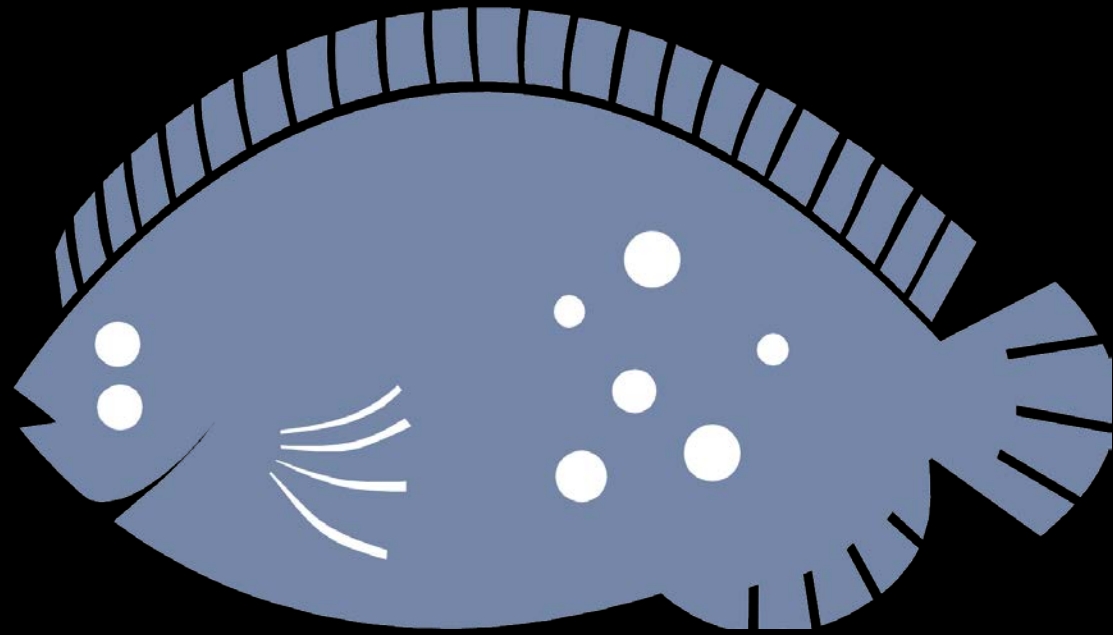
Engage Senior Leadership...

- Average Medical Supply CPT reduction of 46¢
- We Deliver 21,000,000 Treatments per Year*
- $46¢ \times 21,000,000 = \$9,660,000$



Senior Leadership Engaged!

* USA Only



flounder

Engage Middle Management...

- What are the priorities?
- What are the challenges?
- Where are the opportunities?



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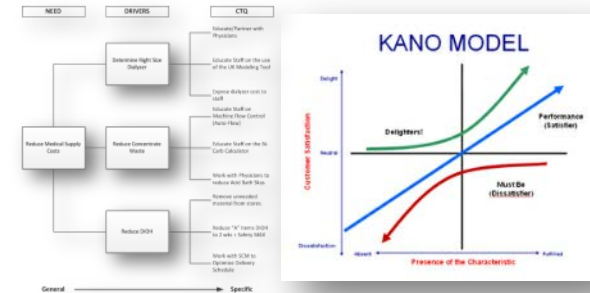
Deploy & CI

Gather VOC & Translate Into Process Requirements

- Surveys and Interviews
 - Mid-Level Managers/Supervisors (100+)
 - Individual Contributors (200+)

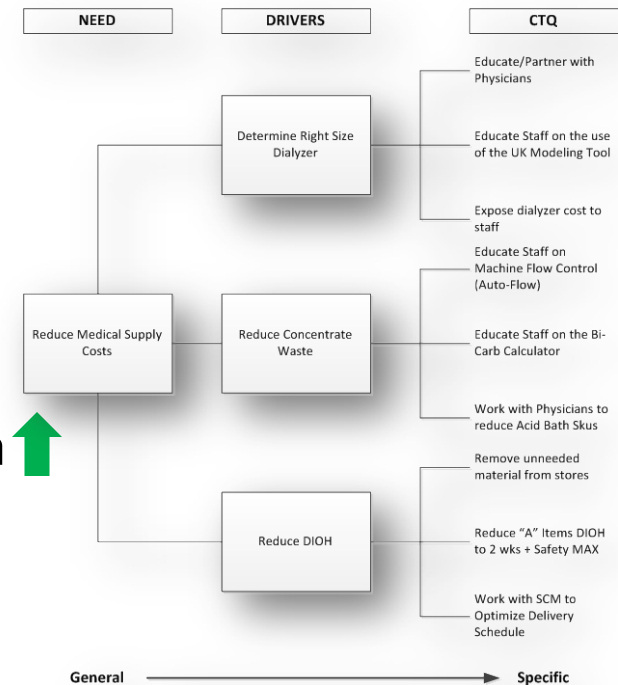
- Organized and Reduced VOC Data
 - Affinity Diagramming
 - Multi-Voting

- Translate into Process Requirements
 - CTQ Tree
 - Kano Analysis



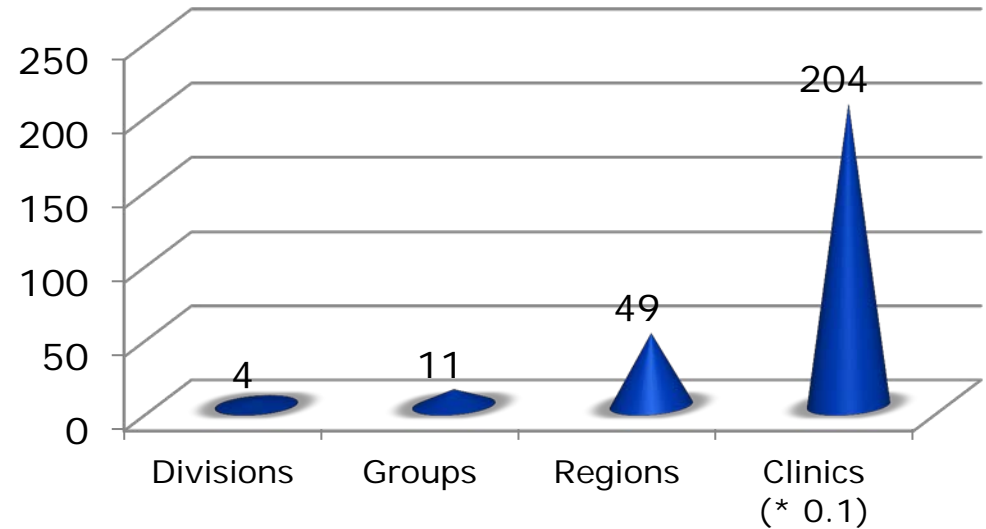
Top 10 CTQ Inputs

1. Patient Outcomes (UltraScore) ↑
2. Catheter Rate ↓
3. Hospitalizations ↓
4. Missed Treatments ↓
5. Infections ↓
6. Number of Patients – In Center ↑
7. Number of Patients – Home Program ↑
8. Medical Supply Cost ↓
9. Productivity ↑
10. Staff Satisfaction ↑



We know the WHAT, time to figure out the HOW...

- Organization matters
 - 4 Divisions
 - 11 Groups
 - 49 Regions
 - 2,040 Clinics



Each Region ~40 Clinics



Brainstorm Ideas on HOW

- Develop a “Regional Franchise Model”
- Adopt the “Take-the-willing” Approach
- Focus on “Lean first” – by design, Lean is *inclusive*
- Utilize an “Apprenticeship Model”
 - See One, Do One, Teach One
- Use our Blended Learning Model to Educate

Create & Evaluate Design Concepts

Pugh Concept Selection Matrix

The image shows a Pugh Concept Selection Matrix. The table has columns for various criteria and a red circle highlighting a specific column. The columns are: Criteria, Concept 1, Concept 2, Concept 3, Concept 4, Concept 5, Concept 6, Concept 7, Concept 8, Concept 9, Concept 10, Concept 11, Concept 12, Concept 13, Concept 14, Concept 15, Concept 16, Concept 17, Concept 18, Concept 19, Concept 20, Concept 21, Concept 22, Concept 23, Concept 24, Concept 25, Concept 26, Concept 27, Concept 28, Concept 29, Concept 30, Concept 31, Concept 32, Concept 33, Concept 34, Concept 35, Concept 36, Concept 37, Concept 38, Concept 39, Concept 40, Concept 41, Concept 42, Concept 43, Concept 44, Concept 45, Concept 46, Concept 47, Concept 48, Concept 49, Concept 50, Concept 51, Concept 52, Concept 53, Concept 54, Concept 55, Concept 56, Concept 57, Concept 58, Concept 59, Concept 60, Concept 61, Concept 62, Concept 63, Concept 64, Concept 65, Concept 66, Concept 67, Concept 68, Concept 69, Concept 70, Concept 71, Concept 72, Concept 73, Concept 74, Concept 75, Concept 76, Concept 77, Concept 78, Concept 79, Concept 80, Concept 81, Concept 82, Concept 83, Concept 84, Concept 85, Concept 86, Concept 87, Concept 88, Concept 89, Concept 90, Concept 91, Concept 92, Concept 93, Concept 94, Concept 95, Concept 96, Concept 97, Concept 98, Concept 99, Concept 100. The red circle highlights the 'Concept 1' column.

Build & Optimize Deployment Models

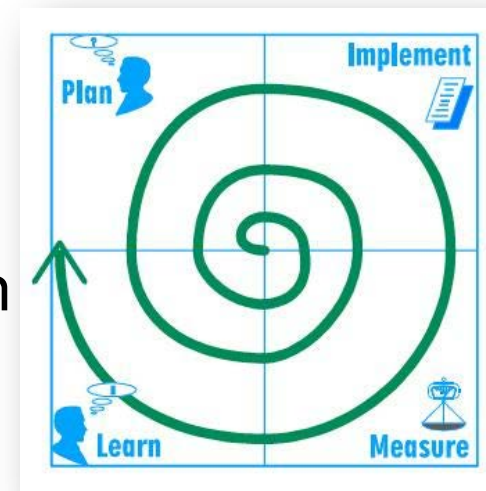
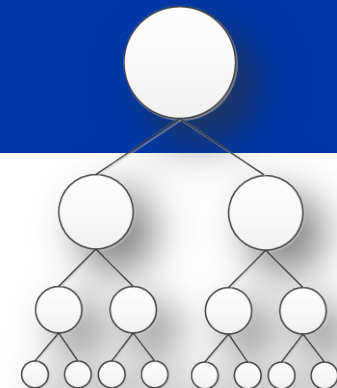
- One Concept was NOT the Solution
- Through Iterative Experimentation...
 - Pieced together an initial working model
 - Pilot Plan for One Region, Two Clinics
 - Gathered Participant Feedback
 - Evaluated Results at 30, 60 & 90-Days Out



Build &
Optimize
Models

Test & Validate

- Deploy at ONE Region, TWO Clinics
 - Establish Baseline metrics
 - Measure Results for 3 Months Post Deployment
 - Has the Staff done more with tools (cultural shift?)
- What have we learned?
 - Active participation?
 - Results meet expectations?
- Adjust Model and Deploy at Next Region
 - Lather, Rinse, Repeat...

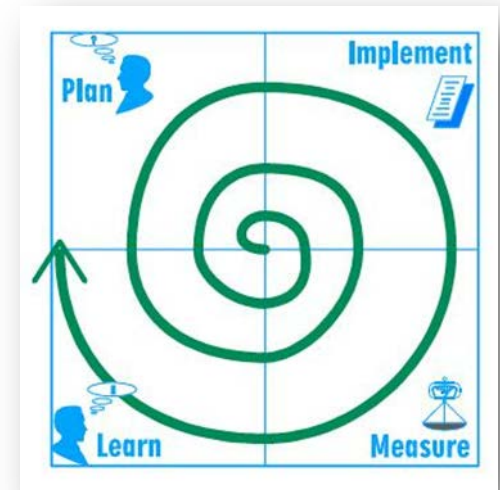


The Journey Continues...

- Practice what we preach...Continuous Improvement
- Plan, Deploy, Measure, Learn, Adjust, Continue...



改善



Obrigado!



THANK
YOU

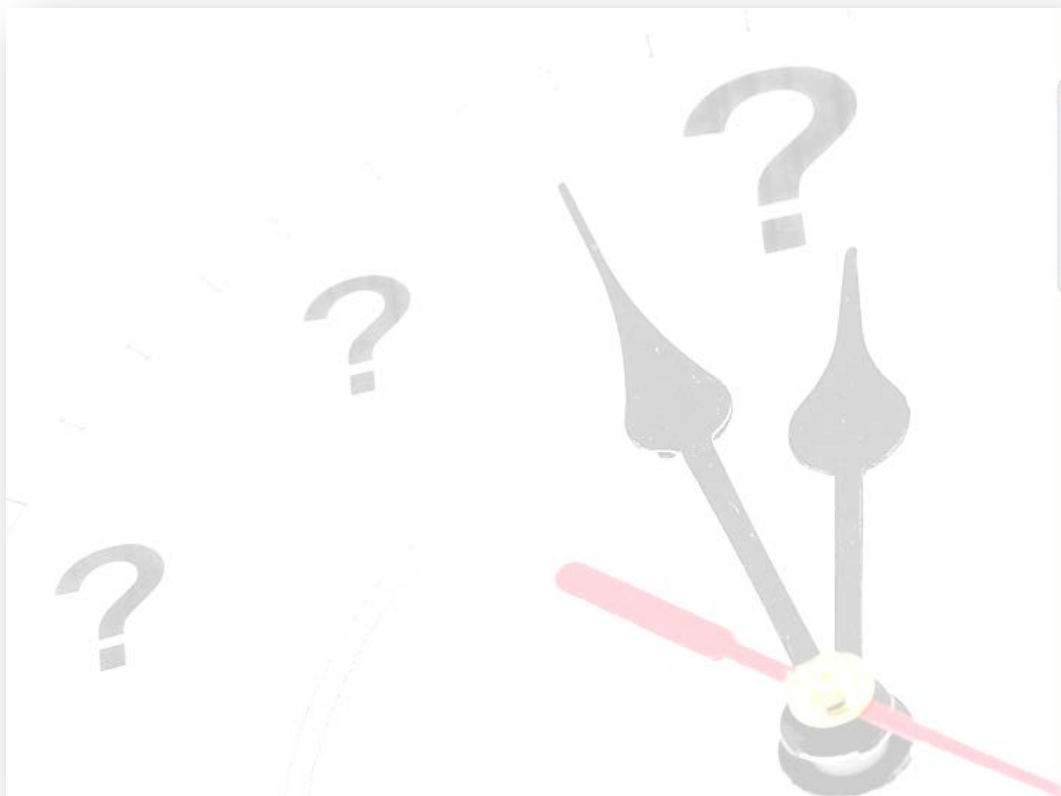


Merci

ありがとう

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Thank you for joining us



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- 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.

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Join us for our next Webcast:

“Begin with the End in Mind: Creating & Sustaining Change”–
Kirby James, The K James Group

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