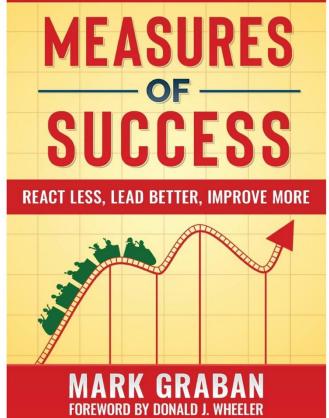
Measures of Success: React Less, Lead Better, Improve More

Mark Graban, MS, MBA



a readable, informative book to guide any leader who wants to help an organization achieve true and lasting success." — Eric Ries, Author of The Lean Startup and The Startup Way

More Resources: https://www.markgraban.com/measuresworkshop

mark@markgraban.com

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Why Are We Here?

"To learn... and to have fun!

And to make a difference..."



W. Edwards Deming (1900-1993)

Why Does Deming Matter in Lean?

"There is not a day I don't think about what Dr. Deming meant to us.

Deming is the core of our management."



Shoichiro Toyoda Honorary Chairman and Director of Toyota

Deming Quotes to Think About

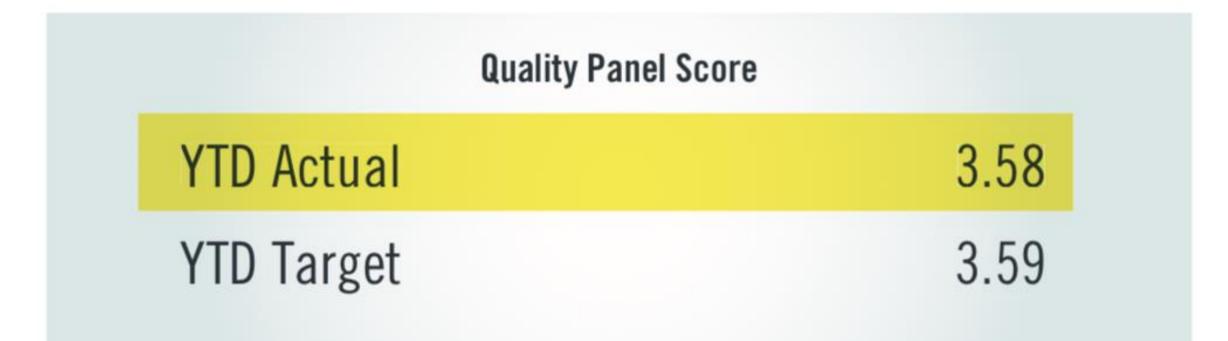
• "Tell me how you measure me and I will tell you how I will behave."

 "If you can get a 10% improvement this year just by asking for it, you should have had it last year."

"What gets measured, gets managed."

How do we manage?

"No data have meaning apart from their context."



From datum driven to data driven...

Strategy Deployment & Lean Management



Source: Thinking Lean at ThedaCare (DVD)

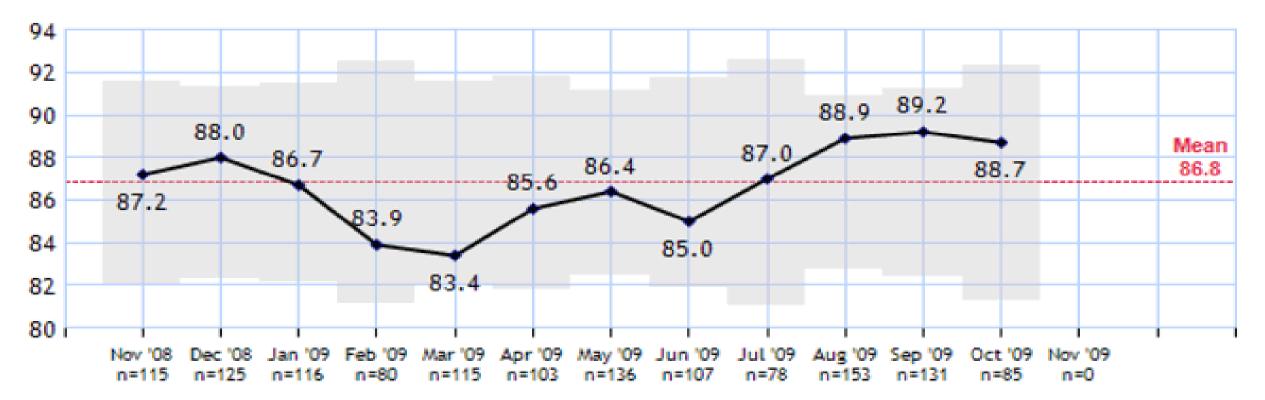
Improvement Projects





Need to Avoid Bad Conclusions

"The average patient satisfaction increased from 87.2 to 89%"



% UA Completed Prior to Appointment Actual: 6/5/17 Week Target 75% 566%

% UA Completed Prior to Appointment Actual: 6/5/17 Week Target 75% 66%

Are we
 achieving our
 target or goal?

2. Are we improving?

3. How do we improve?

Three Key Questions

More Key Questions

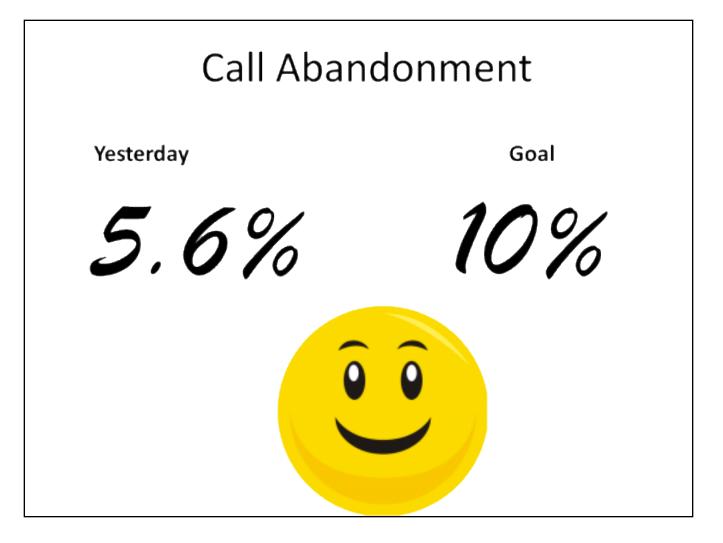
- 1. Are we achieving our target?
 - Are we doing so occasionally?
 - Are we doing so consistently?
- 2. How is our performance trending $2^{\text{II}}_{\text{SEP}}$
 - Are we improving?
 - Are we getting worse?
 - Are we staying the same?
 - How do we know?
- 3. How do we improve performance?
 - What methods should we use?
 - How will know if we've improved?



"Bowling Chart" or "Bowler"

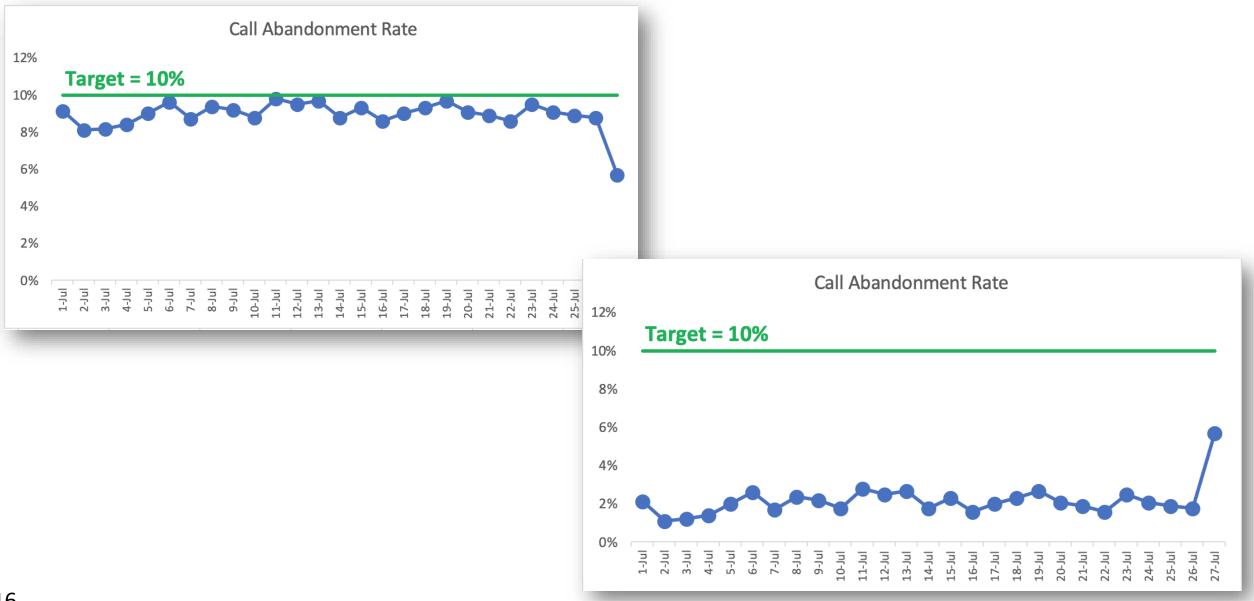
True North Pillar	Metric	Desired Direction		Jan-16	Feb-16	Mar-16	Apr-16	May-16	Jun-16	Jul-16	Aug-16	Sep-16	Oct-16	Nov-16	Dec-16
Quality & Safety	Falls with Severe Injury	DOWN	Actual	0	1	0	0	1	0	0	0	0			
			Target	0	0	0	0	0	0	0	0	0	0	0	0
Quality & Safety	CLABSI	DOWN	Actual	0	0	1	0	0	1	2	0	0			
			Target	0	0	0	0	0	0	0	0	0	0	0	0
Quality & Safety	CAUTI	DOWN	Actual	1	0	0	0	0	0	0	1	1			
			Target	0	0	0	0	0	0	0	0	0	0	0	0
	Necessary Information Available Survey	UP	Actual	67%	50%	48%	70%	46%	40%	60%	70%	50%			
			Target	80.00%	80.00%	80.00%	80.00%	80.00%	80.00%	80.00%	80.00%	80.00%	80.00%	80.00%	80.00%
	Likelihood to recommend	UP	Actual	76.40%	78.40%	80.50%	70.00%	46.00%	40.00%	60.00%	70.00%	50.00%			
			Target	79.90%	79.90%	79.90%	79.90%	79.90%	79.90%	79.90%	79.90%	79.90%	79.90%	79.90%	79.90%
Patient Experience	Hospital rating	UP	Actual	76.40%	77.70%	77.60%	77.60%	77.20%	77.60%	77.00%	75.00%	63.00%			
			Target	77.50%	77.50%	77.50%	77.50%	77.50%	77.50%	77.50%	77.50%	77.50%	77.50%	77.50%	77.50%

Goal Comparison Example



"...the results are OK because it's below our goal."

Call Abandonment Run Chart



My Most Favorite Book <u>Ever</u>

UNDERSTANDING VARIATION THE KEY TO MANAGING CHAÖS DONALD J. WHEELER SECOND EDITION



Donald J. Wheeler, Ph.D.

<u>http://www.spcpress.com/</u> Amazon: <u>http://bit.ly/wheeler-book</u>

Method We Are Here to Learn & Practice

- "SPC Chart"
 - Statistical Process Control
- "Control Chart"
- "XmR Chart"
- "Process Behavior Chart"
- The "Has the Process Changed Chart?" (via Wheeler)
- The "Is It Time to Fix It Chart?" (via Wheeler)

Wheeler Says

"SPC is a way of thinking, with some tools attached."



Dr. Deming's Red Bead Game

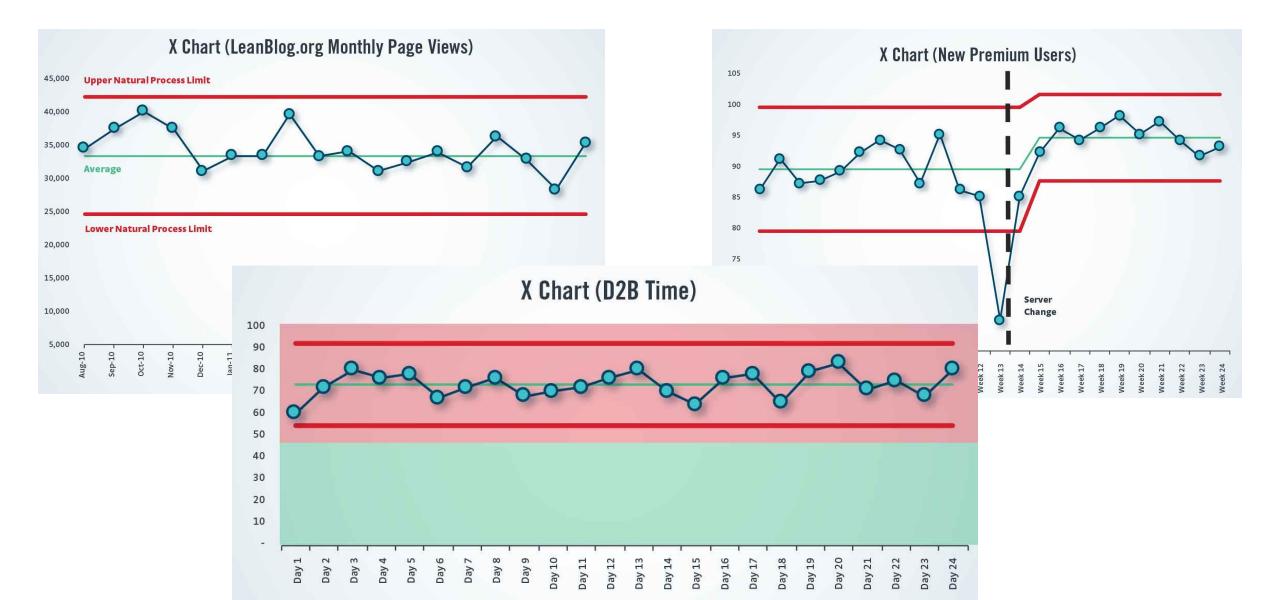


See Notes & More: MarkGraban.com/redbead W. Edwards **DEMING**



OUT OF THE CRISIS

Process Behavior Charts

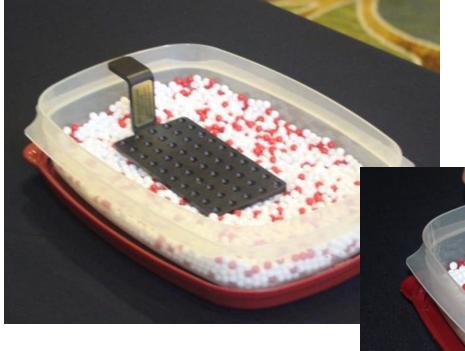


History of the Red Bead Game

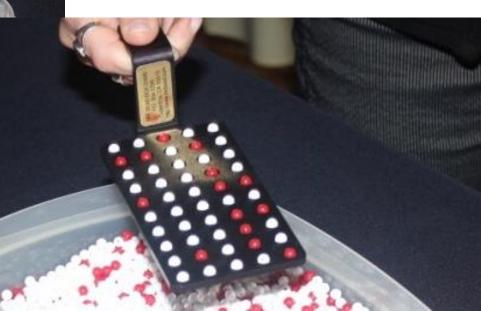
- Created at HP as a gift for Dr. Deming in 1982 by William (Bill) Boller
- Deming used the "Red Bead Experiment" or "Red Bead Game" in his seminars



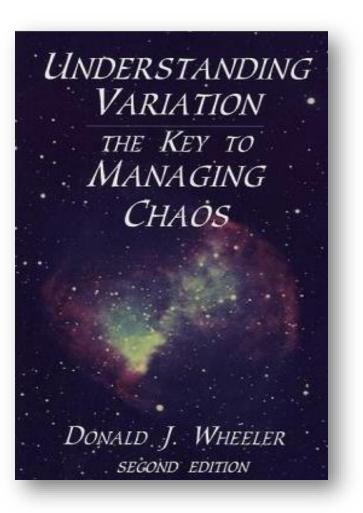
What We'll Do & See – "Bead Production"







Signal vs. Noise?



"While every data set contains noise, some data sets may contain signals. Therefore, before you can detect a signal within any given data set, you must first filter out the noise."



Wheeler Says

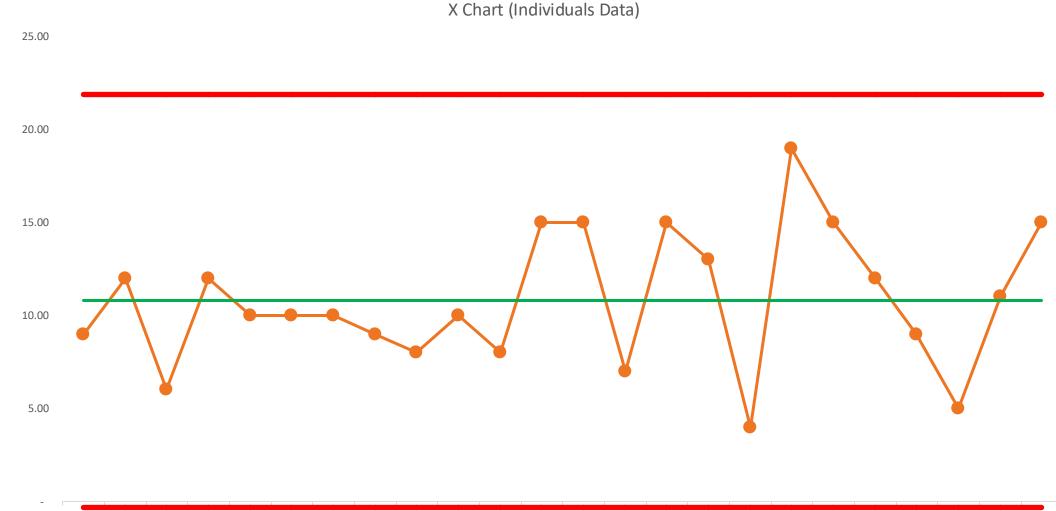
 Process behavior charts "will filter out virtually ALL noise in the system."



Which Type of Cause?

Common	Special Exceptional Signal										
Routine											
Noise											
25.00 20.00 15.00 5.00	X Chart (Individuals Data)										
- Day											

Typical Red Bead Process Behavior Chart

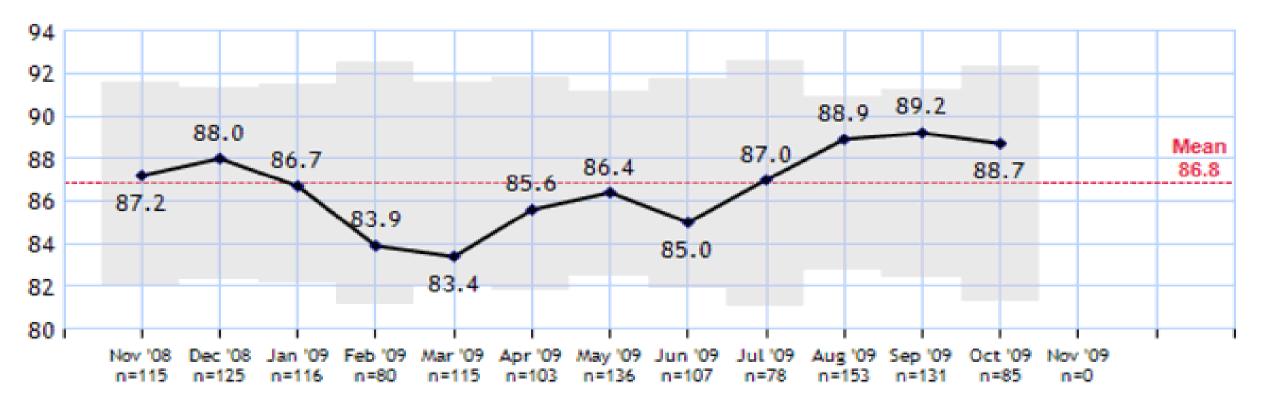


Day 1 Day 2 Day 3 Day 4 Day 5 Day 6 Day 7 Day 8 Day 9 Day 10 Day 11 Day 12 Day 13 Day 14 Day 15 Day 16 Day 17 Day 18 Day 19 Day 20 Day 21 Day 22 Day 23 Day 24

Using Process Behavior Charts

Patient Satisfaction Run Chart

"The average patient satisfaction increased from 87.2 to 89%"

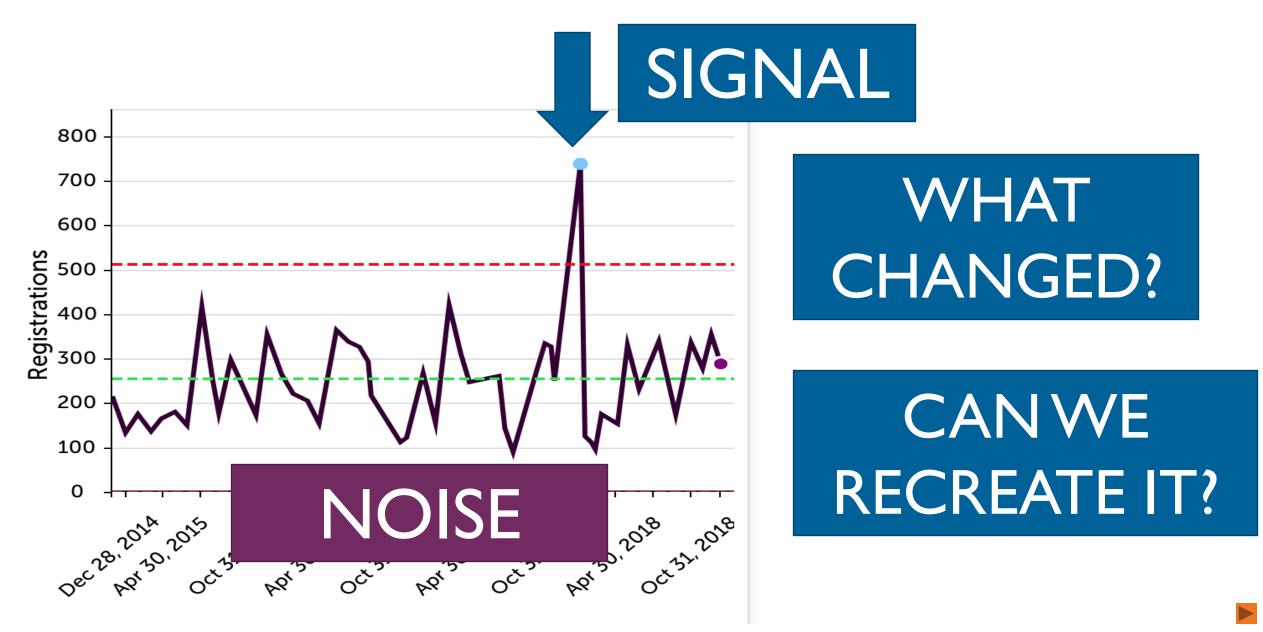


Process Behavior Chart:



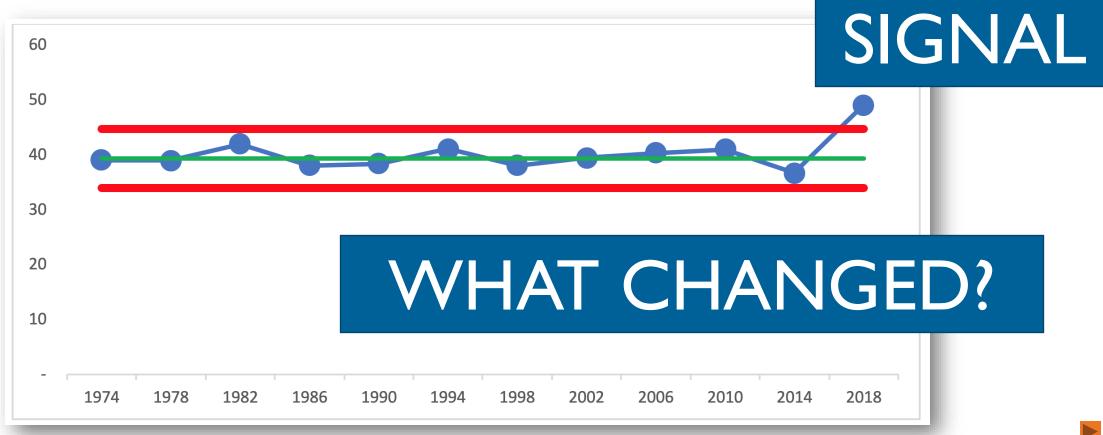
30

KaiNexus Webinar Registrations



Midterm Elections

Americans Turned Out to Vote in the Midterms at a Level Not Seen in More Than a Century



Oscars Ratings

BUSINESS | MEDIA & MARKETING

Academy Awards Pull In Record-Low Ratings

Television audience for Oscars on ABC falls 19% to 26.5 million



"Bowling Chart" or "Bowler"

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			Target	79.90%	79.90%	79.90%	79.90%	79.90%	79.90%	79.90%	79.90%	79.90%	79.90%	79.90%	79.90%
Patient Experience	Hospital rating	UP	Actual	76.40%	77.70%	77.60%	77.60%	77.20%	77.60%	77.00%	75.00%	63.00%			
			Target	77.50%	77.50%	77.50%	77.50%	77.50%	77.50%	77.50%	77.50%	77.50%	77.50%	77.50%	77.50%

Bowling Chart as PBCs



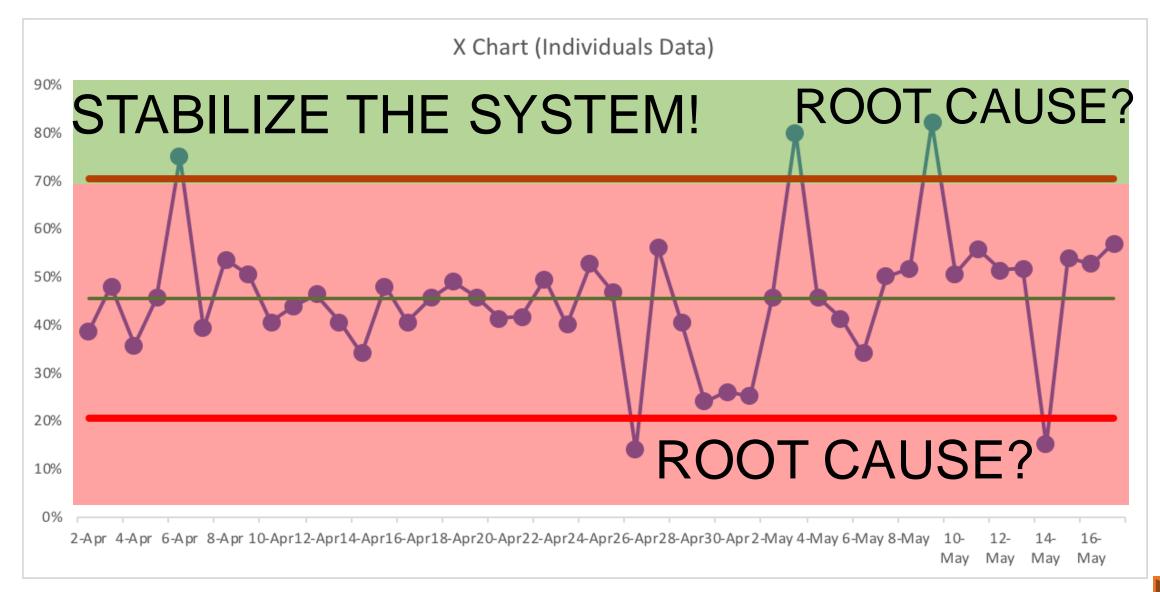
Bowling Chart as PBCs with Red/Green



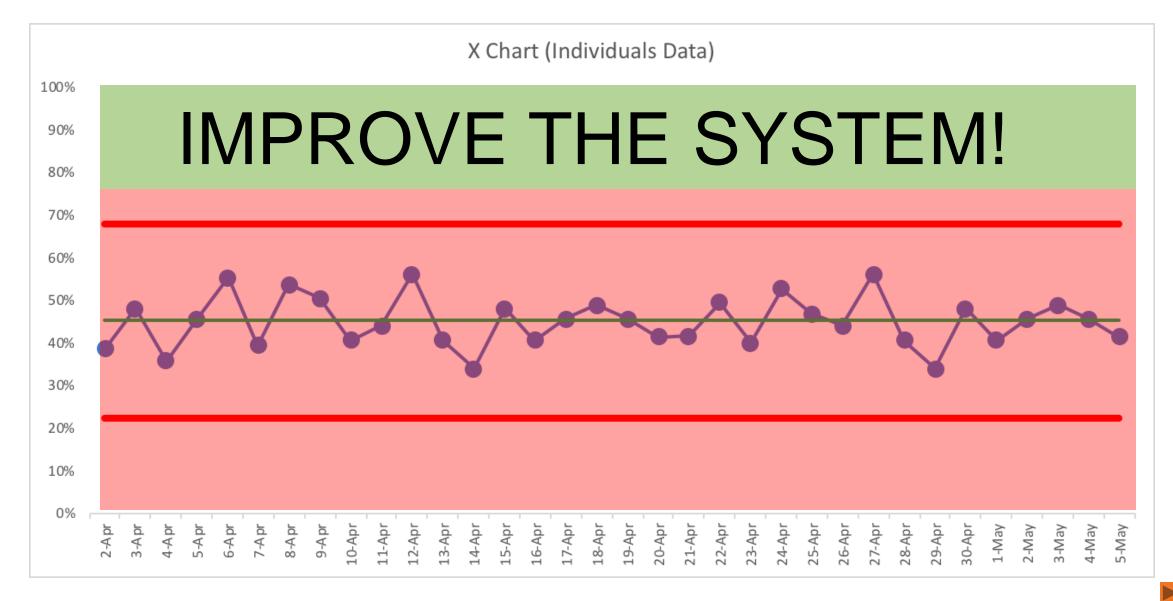
NOISE

SIGNAL

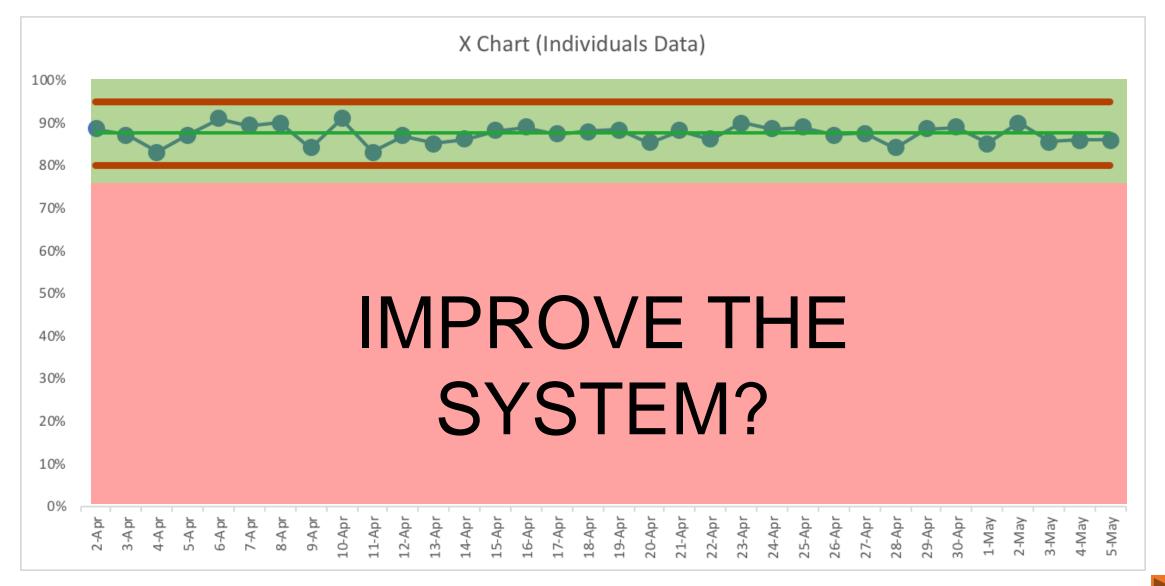
Unpredictable & Not Meeting Target



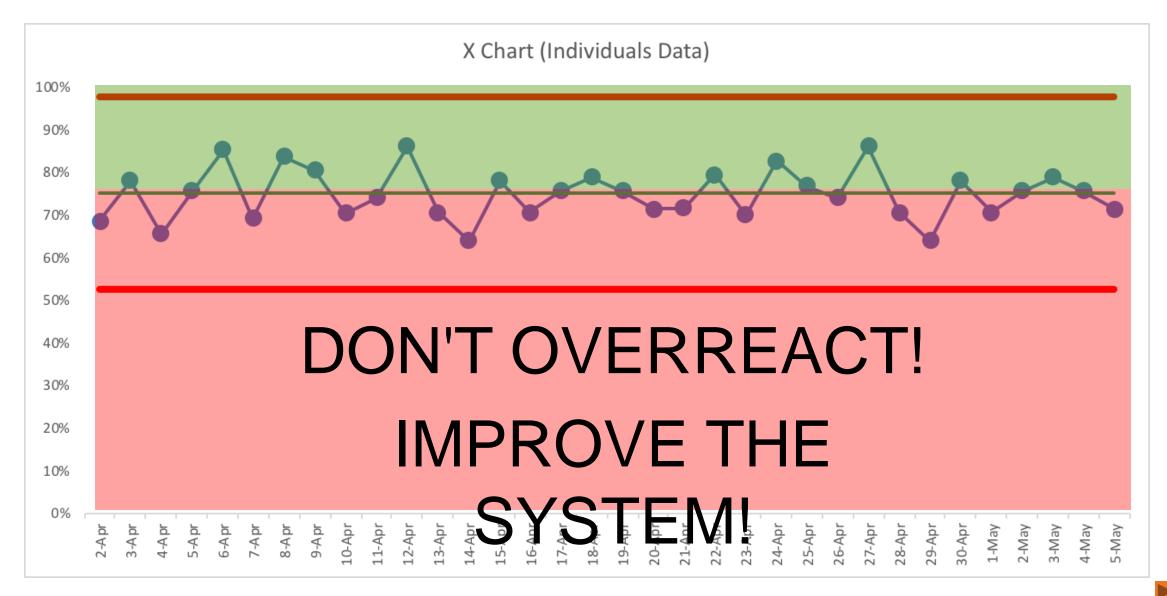
Predictable & Not Meeting Target



Predictable and Always Meets Target

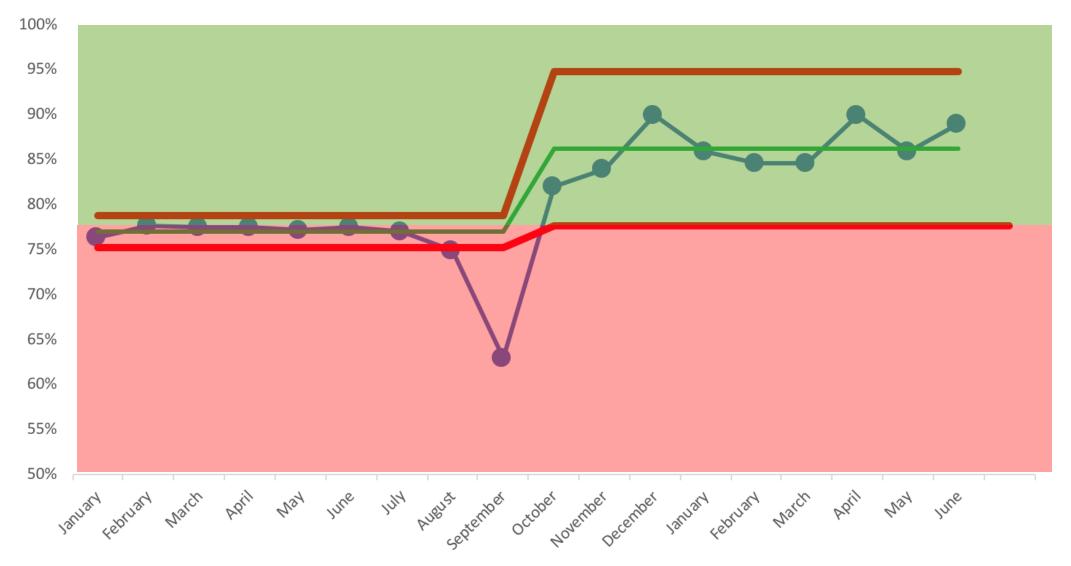


Predictable and Sometimes Meets Target

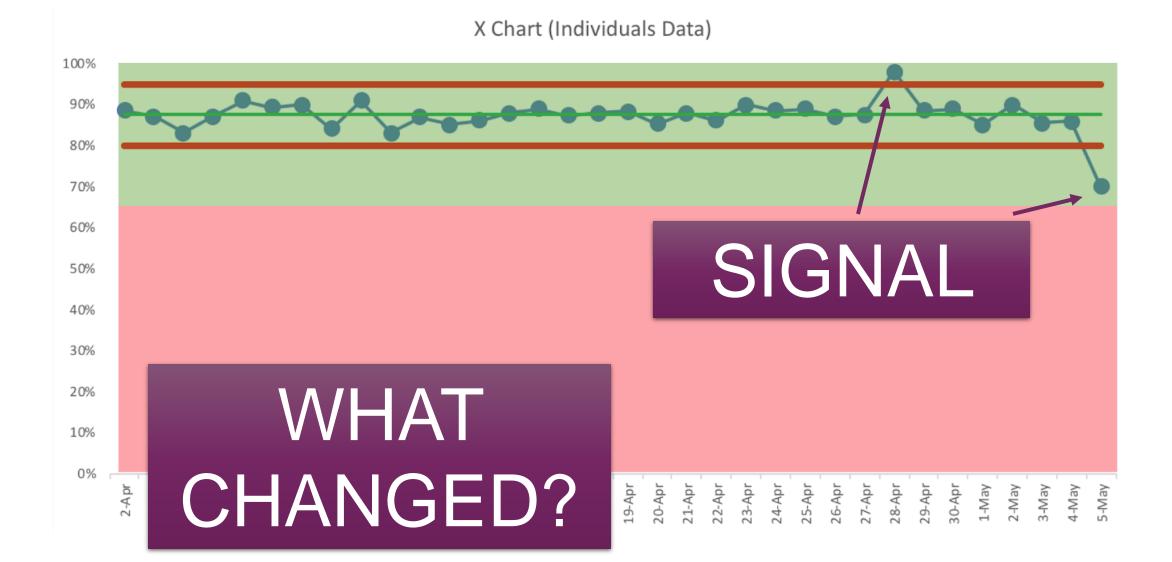


Shifting into the Green

X Chart (Hospital Ratings Score)



LOOKING TOR SIGNAIS IN A METRIC INAT MEETS Target



Wheeler Says

 "The question is not whether these methods work... only if you can make them work."



Wheeler Says

 "Those who do not use process behavior charts have no advantage over those who can't!"



Resources: https://www.markgraban.com/measuresworkshop

Q&A and Contact Info

@MarkGraban mark@markgraban.com www.LeanBlog.org www.MarkGraban.com

able, informative book to guide any leader who help an organization achieve true and lasting success." ric Ries. Author of The Lean Startup and The Startu **MEASURES** OF — SUCCESS REACT LESS, LEAD BETTER, IMPROVE MOR