Making the Invisible Visible

Sustaining a Lean Transformation

Lean Transformation Summit 2015 March 4-5, 2014

PETER WARD | Sr Associate Dean, Fisher College of Business Director, Center for Operational Excellence







We Are a Strong Mutual Company **Built To Serve Our Members**

15+
MILLION
POLICIES

\$168 BILLION IN ASSETS PROVIDER OF PUBLIC-SECTOR RETIREMENT PLANS

\$25 BILLION IN REVENUE FOR 2014

Nationwide has more than 33,000 associates serving customers in nearly every state.

\$25
MILLION
CONTRIBUTED
TO NONPROFITS
AND COMMUNITIES

EARNED 2014 GALLUP GREAT WORKPLACE AWARD AS ENGAGEMENT CLIMBED FOR SIXTH STRAIGHT YEAR

\$500M

COMMITTED TO THE COMMUNITIES WHERE WE LIVE AND WORK SINCE 2000

FOUNDED IN 1926 BY MEMBERS OF THE OHIO FARM BUREAU



#91
ON THE FORTUNE 500

Nationwide sits in a position of strength with leadership in products across our diverse portfolio



Nationwide® is on your side

Top 10 in multiple product lines across the portfolio

Financial Services

- Variable & Immediate Annuities
- Retirement Plans
- Individual Life
- Corporate Life

Commercial Lines

- Farm / Agribusiness
- Excess & Surplus
- Standard Commercial

Personal Lines

- Standard Auto and Home
- Pet Insurance

THE OHIO STATE UNIVERSITY



+500,000 LIVING ALUMNI



focus on health sciences. the most of any university in the nation

699,050 DEGREES SINCE 1878

OHIO STATE

GRADUATES RANKED

WALL STREET JOURNAL

11 COLLEGES contributing to CANCER RESEARCH



+1.4 MILLION HOURS
OF STUDENT COMMUNITY SERVICE LOCALLY AND GLOBALLY

12TH STRONGEST BRAND EQUITY

IN THE NATION AND 3RD AMONG PUBLIC UNIVERSITIES - GLOBAL BRAND MONITOR



THE OHIO STATE UNIVERSITY WEXNER MEDICAL CENTER NAMED ONE OF "AMERICA'S BEST HOSPITALS" FOR 22 CONSECUTIVE YEARS

– U.S. NEWS & WORLD REPORT'S 2014 "AMERICA'S BEST HOSPITALS"

=3RD= AMONG ALL UNIVERSITES

FOR INDUSTRY-SPONSORED RESEARCH - NATIONAL SCIENCE FOUNDATION (2013)



= 83% =

OF BAND MEMBERS MAJOR

IN AN AREA OTHER THAN MUSIC-FROM ENGLISH TO ENGINEERING TO MATHEMATICS TO NURSING

OSU.EDU



Technology at Nationwide

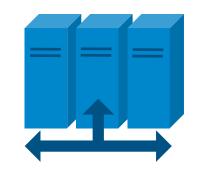
\$1+
BILLION
ANNUAL IT
SPEND





8,500+
IT WORKFORCE (PREDOMINANTLY IN-HOUSE)

10,000+ SERVERS



~8 PB
IN STORAGE

Let's Take a Look at Our Lean Journey (Video)



Our Belief System





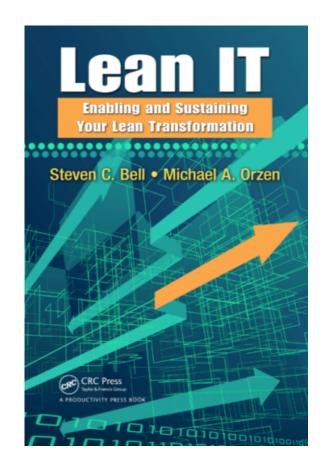




What is **Lean IT?**

Engaging People, Improving Process, Leveraging Technology

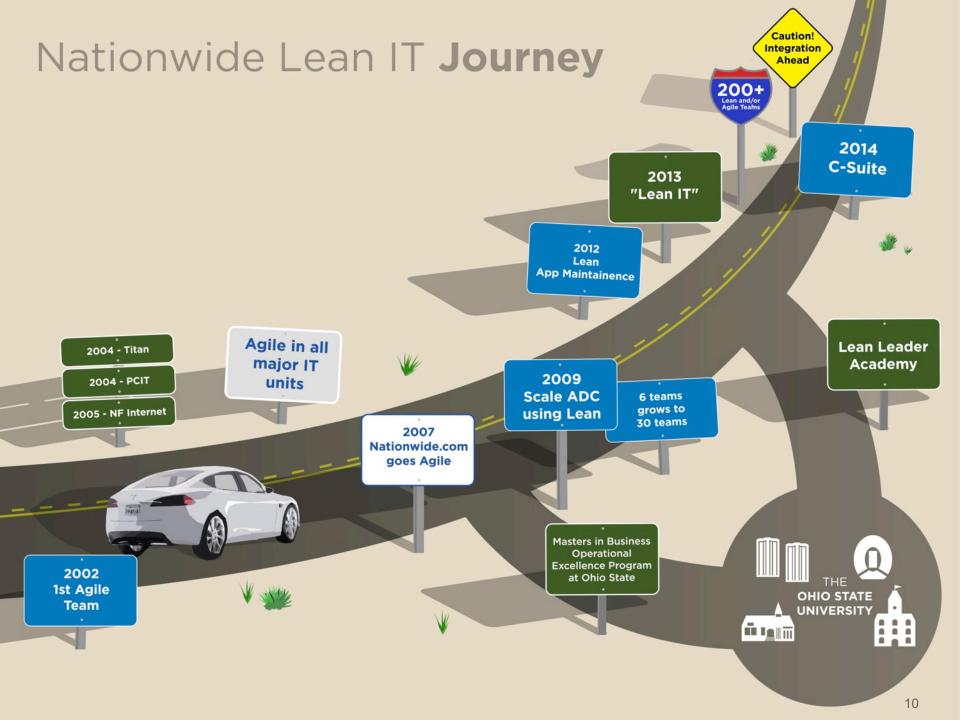
- ✓ Integrate and synchronize IT with the business
- ✓ Provide quality information and applications
- ✓ Enabling the flow of value to the customer
- Using systems thinking and awesome problem solving





What Lean IT Looks Like to Us

Traditional Systems	Lean Systems			
Authority	Responsibility			
Results Focused	Process Focused			
Expert "Staff" Functions	Expert Workers			
Jump to Solutions	Root Cause Problem Solving			
Corner Office Management	Go See Management			
Report Analysis (delayed)	Visual Management (real-time)			



Multi-faceted Nationwide-OSU Partnership



Nationwide Lean Leader Academy

Combines classroom and Gemba coaching

Multi-faceted Nationwide-OSU Partnership



Center for Operational Excellence

40 member consortium focused on lean management

Multi-faceted Nationwide-OSU Partnership



Information Technology Leadership Network

Forum for sharing lean practice among IT leaders from a consortium of organizations

MB0E at a Glance

1 year program December to December

8 four-day on-campus sessions

Supplemented by distance learning

Students:

- mid-career
- working full time
- come from all over

Year long project with coach

Project and Coaching

Project results from a problem identified jointly by student and student's boss

MB0E assigns coach

Student and workplace team begins

A3 development with help of coach

Student, boss, coach and faculty participate in **90 day review cycles**

Tom's A3, Circa 2010

Enable Application Development Center to deliver high-quality, cost effective strategic business applications at a predictable pace.

Owner: Tom Paider Sponsor: Srini Koushik / Tim Lyons

Nationwide

Background

Nationwide is one of the largest insurance and financial services companies in the world, with more then \$135 billion in statutory assets. Nationwide offers products in retirement savings and income, personal protection, and commercial and specialty protection. The company is currently undergoing several transformation initiatives that are increasing demand on IT while at the same time pressing for lower overall costs. The combination of increasing demand and current IT expense pressure is resulting in

growing delivery challenges. The business is expecting us to deliver faster with higher quality at lower cost.

The Application Development Center (ADC) was envisioned as a response to these pressures by developing world-class application development capabilities. The vision of the Application Development Center is to create a sustainable model for high-quality, cost-effective software development at a predictable pace that benefits Nationwide and associates. The ADC will:

- Create a competitive advantage through the effective use of technology and a superior model
- Deliver business value faster and on-time every time with near zero defects
- Develop exceptional people and teams focusing on associate-based talent with contract flex staffing
- Enable continuous improvement and employee empowerment through standardized work

Current Condition Long Delivery Cycle Form Team S50K Lead Time Varies 6 mo – 2 yr

IT projects are highly entrepreneurial which has led to a lack of reuse and reinvention Lack of consistently applied development standards has inhibited organizational learning Former siloed business and IT processes have left a legacy of siloed metrics and no metrics metamodel Perception of quality, cost, and delivery problems by the business Nationwide IT overall \$200M more expensive annually than peers Weakening dollar - outsourcing costs up 10% last 18 months

<u>Analysis</u>

No standard work - The federated model of IT development in Nationwide's recent past led to disparate and unevenly applied standards and a lack of reuse across companies, business units, and teams. The model led to an entrepreneurial culture where many teams created the same or similar "innovations", leading to increased cost and delivery time.

No method for enabling continuous improvement - Improvements are isolated and one-offs instead of being incorporated into the larger enterprise, successful methods and techniques are lost with project closure.

No readily available metrics - project and team performance metrics are often buried in disparate internal systems, spreadsheets, and paper documents, preventing the company from determining where improvements need to be made and what is working well at any moment in time.

Captive to external talent - contractor percentage in key roles is too high, leading to increased cost and exposure to loss of specialized knowledge and skill

Goals

Quality Near Zero Defects Released into Production - No High or Medium Defects

Delivery 100% On-Time Delivery
Cost 20% Decrease in Delivery Cost

Capability Learning Organization Dedicated to Continuous Improvement

Countermeasure		Description	Benefit		
		Create the ADC Way, a lean implemenation of Nationwide's			
ADC Way	development metho	development methodology and a new lean management system.			
Create a Learning	Create a system tha	Create a system that enables continuous improvement by harnessing			
Organization	the collective know	the collective knowledge of our associates.			
Show the results	Create a suite of me the organization to for immediate feed	Delivery			
Show the results	Denvery				
Build Talent	company.		Cost, Capability		
aster development cycles built into the uture state model to deliver business alue quicker to our customers.		Polare State VSM PRAVY Define Define 1 = 1 Months	Prod Morthly		

ID	Task Name	Start	Finish	Associated Countermeasure	Q1 10 Jan Feb Mar	Q2 10 Apr May Jun	Q3 10 Jul Aug Sep	Q4 10 Oct Nov Dec	
1	Create foundational constructs for the ADC Way	2/1/2010	3/30/2010	ADC Way					
2	Define the continuous improvement model	1/4/2010	2/26/2010	Build Talent					
3	Implement Production System Components	2/1/2010	4/1/2010	ADC Way					
4	Define Visual Management System	1/19/2010	3/15/2010	Show the Results					
5	Create tracking system for staffing model progress	1/4/2010	2/26/2010	ADC Way					
6	Visual Management System Pilot	4/5/2010	5/5/2010	Show the Results					
7	Define productivity stats and relation to team attributes	4/1/2010	5/19/2010	Show the Results					
8	Create one page view of learning organization	6/15/2010	6/29/2010	Learning Org)		
9	Implement Lean Management System (waves)	4/1/2010	10/1/2010	ADC Way)	
10	Create ADC HBR Article	5/17/2010	11/30/2010	All			·		

Follow Up

Project Reviews - weekly project reviews with sponsor Operations Reviews - review ADC strategy progress monthly Retrospectives - biweekly team and project reviews with customers



THE OHIO STATE UNIVERSITY



Real Results

Engagement



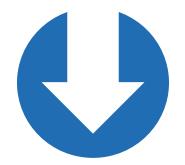
engagement...

Productivity



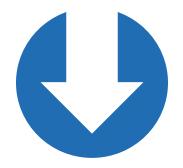
better than industry averages...

Defects



High and critical defects counts are on a 5-year positive trend while ZERO defects...

Cost

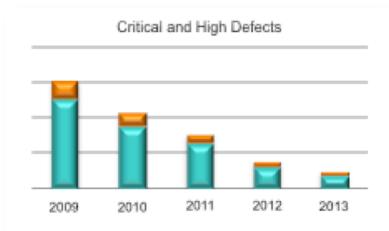


Associate engagement is increasing for teams that 87% of production have deployed Lean and application releases are IT has had 7 years in a 96% of releases have row of **increasing**

Costs for application maintenance have been reduced by 20%...



Real Results



Nationwide used lean to massively scale agile software development beginning in 2009. Quality results have been staggering in the years since.

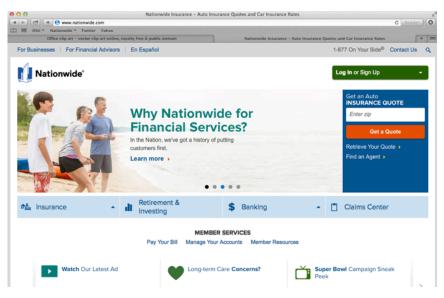
At the same time our **lean journey** has made the way we maintain applications more efficient and effective leading to **massive annual savings.**



Information Technology poses many challenges and opportunities for lean

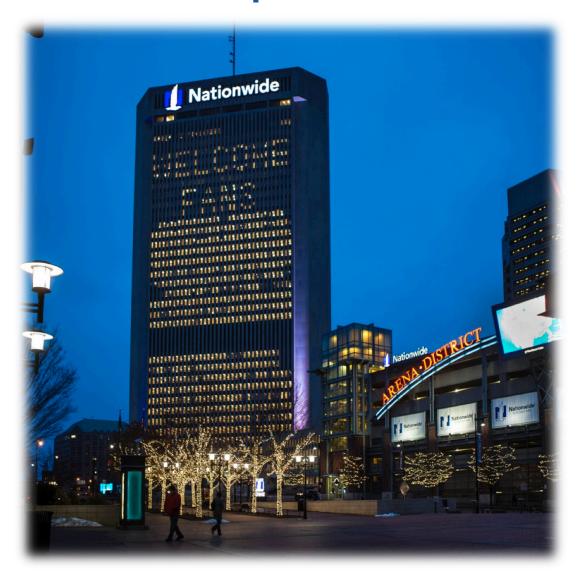








Let's take a walk at **Nationwide's headquarters** in Columbus...



Tier I Lean Management System (Video)

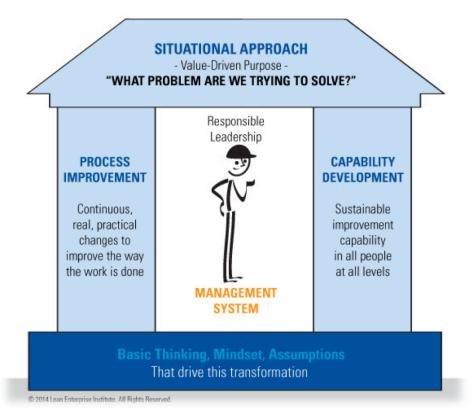


Frontline Management System (Tier I)

What did you see in Tier I system in terms of the Lean Transformation Model?

Tools?
Principles?
Systems?
Behaviors?

The Lean Transformation Model



Tier II Lean Management System (Video)

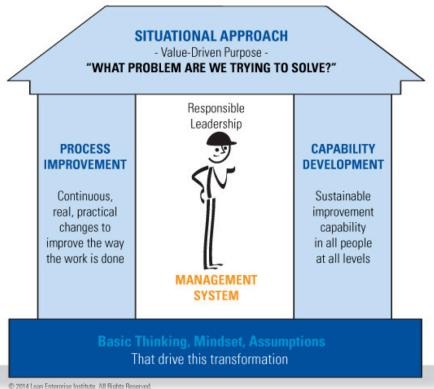


Director Management System (Tier II)

What common elements did you see between the Tier I and II management systems?

What unique elements did you see at Tier II?

The Lean Transformation Model

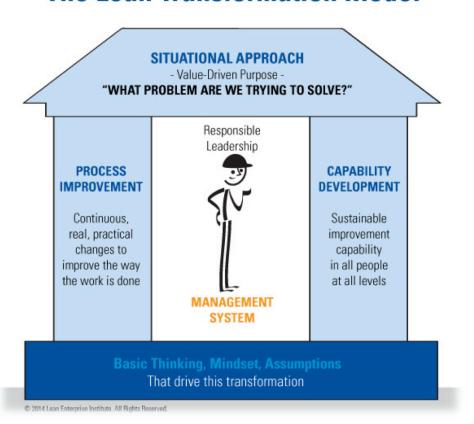


Tier III Lean Management System (Video)



VP Management System (Tier III)

The Lean Transformation Model



What is the role of a lean executive?

Why is it necessary to involve your executives in the **lean transformation?**



C-Suite Lean

The primary purpose of our lean management system is to **create a connection** between the executive ranks and the value-adding work of the front line employees



Making **Connections**

Tier IV Lean Management System (Video)



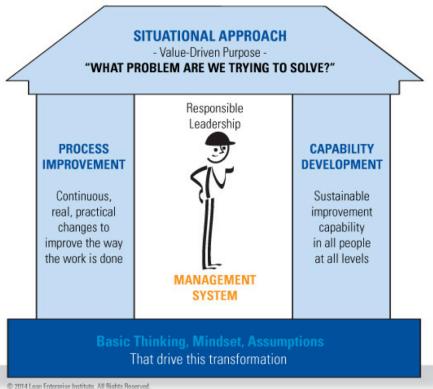
CTO Management System (Tier IV)

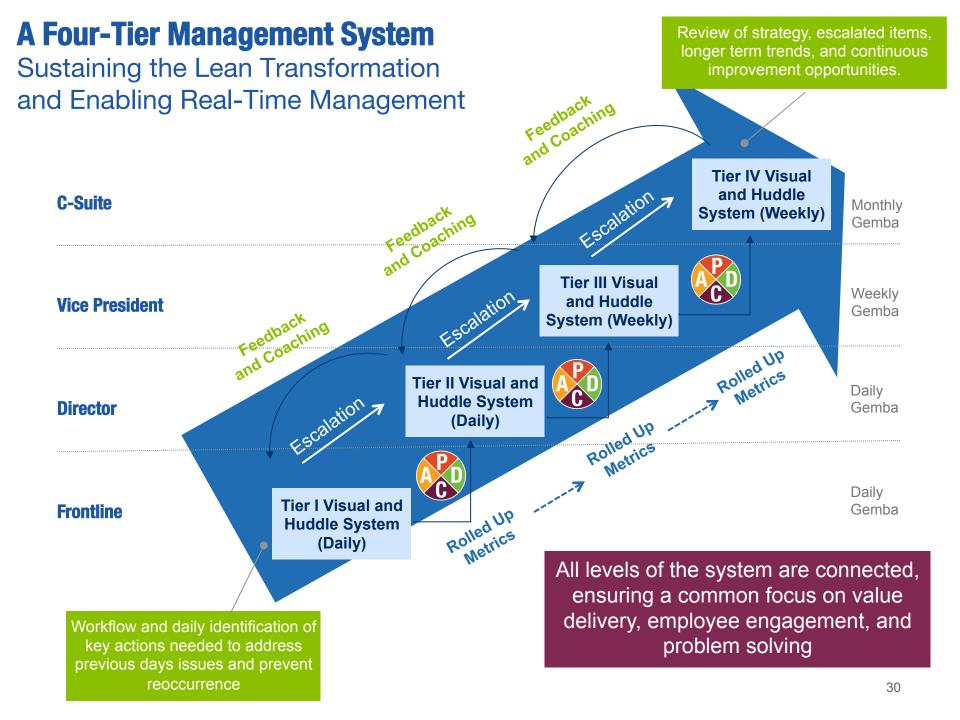
What are the elements of the C-Suite lean system?

What challenges are unique to deploying a lean management system to your CxO?

What if your Cx0 isn't interested in lean?

The Lean Transformation Model









Continued deployments at the **C-level**

Ensuring all components are connected

Continue **learning journey** to create lean leaders

Further integration with business lean initiatives

Continued Lean IT deployments

THANK YOU!

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