

WSDOT

Lean: Driving Engageme

Driving Engagement, Driving Improvement, Driving Success

Tuesday, October 17, 2017
Gary Vansuch and Amber Sander





Our expectations

Cell phones on stun

Focus

Active involvement



The only really dumb question is the one you don't ask

The ability to learn is the most important quality a leader can have.

-- Sheryl Sandberg, COO of Facebook

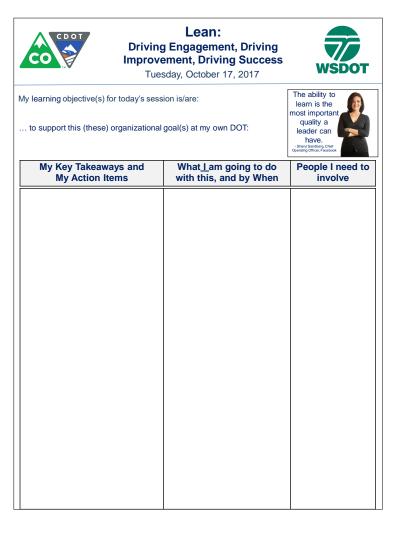


This session seek to help answer this question

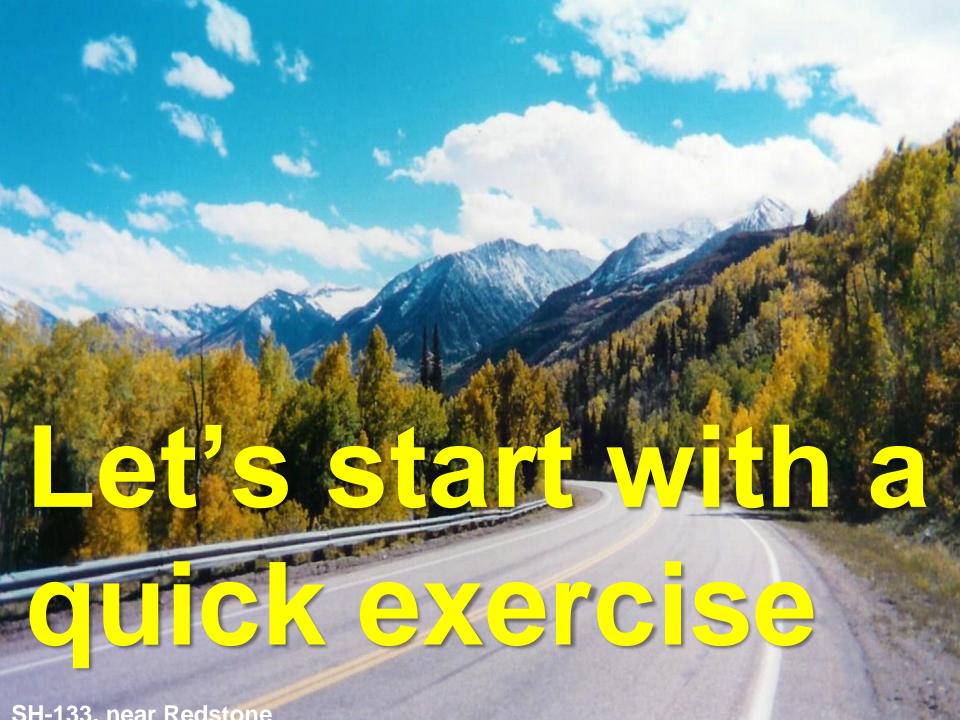
How do we grow a culture of engagement and improvement?



2 sheets in the back – take one of each

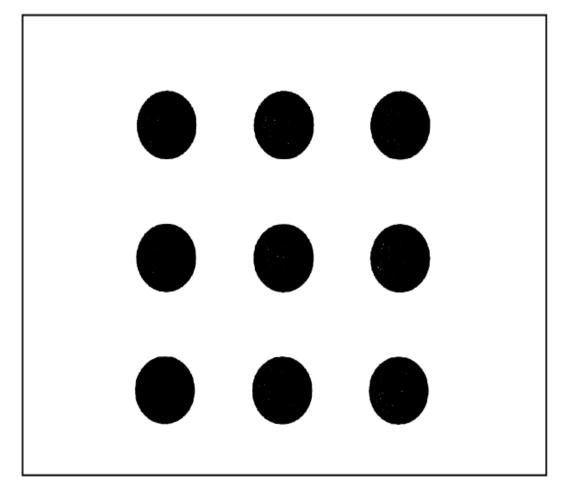






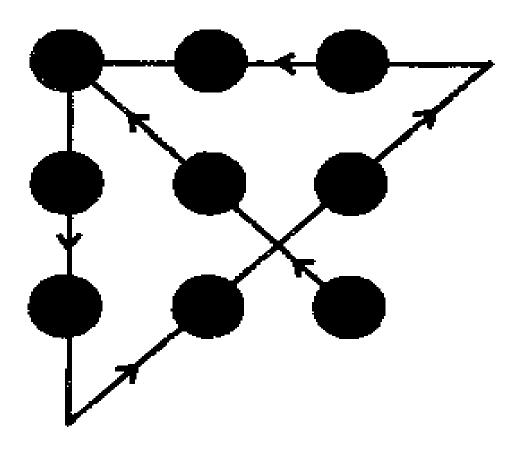
9 dots

Without lifting pencil/pen from paper, draw no more than four (4) straight lines that will cross through all nine dots



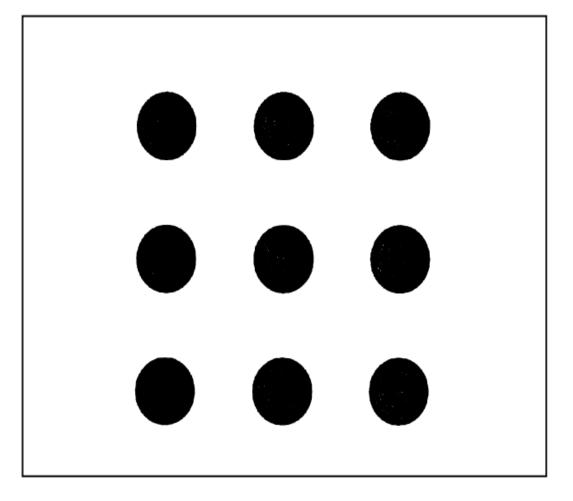
A 4-line solution

Did you think you were NOT supposed to let the pencil go outside an imaginary square drawn around the nine dots?



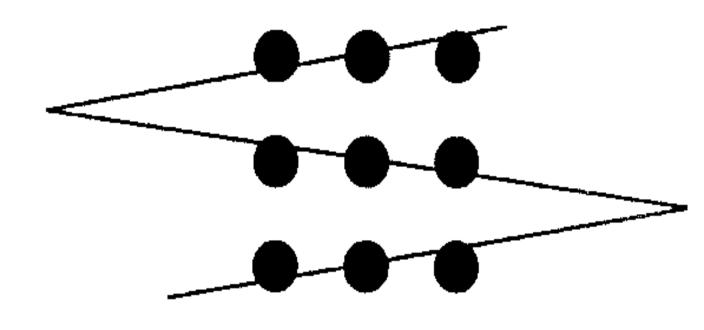
9 dots, again

Again -- Without lifting pencil/pen from paper, draw no more than three (3) straight lines that will cross through all nine dots



A 3-line solution

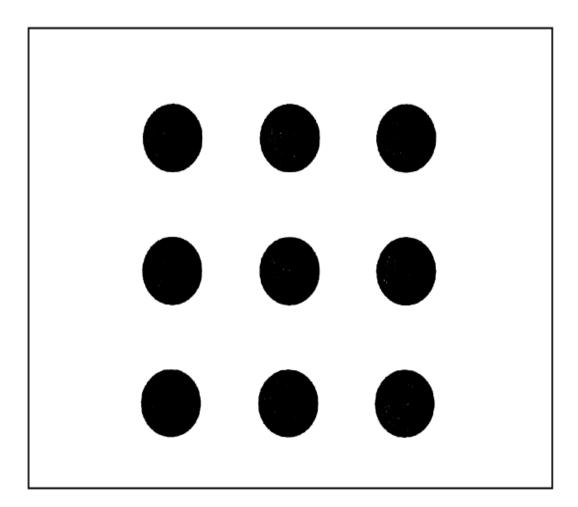
Did you think the lines must pass through the center of the dots?



9 dots, again

BONUS POINTS

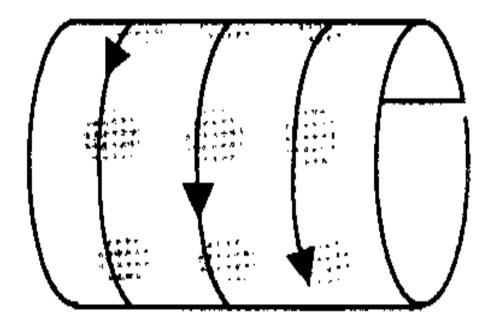
Without lifting pencil/pen from paper, draw one straight line that will cross through all nine dots



And Yes, one of the 1-line solutions

A more subtle and more pervasive mental block is the assumption that the problem must be solved within a two-dimensional-plane!

One solution: If you think in 3 dimensions, you can roll the paper to form a cylinder, and it becomes possible to draw a single straight line that spirals through all nine dots



Thinking outside the box

Some of the most wonderful people are the ones who don't fit into boxes.

The most dangerous phrase in the language is, "We've always done it this way".



- Admiral Grace Hopper

What was advertised for today: long version

Every organization's greatest assets are the knowledge, experience, and ingenuity of its people. Driving engagement – helping people utilize their knowledge, their experiences, and their ingenuity – is what we have been striving to do at two transportation agencies: Colorado Department of Transportation (CDOT) and the Washington State Department of Transportation (WSDOT). During this session, we will discuss harnessing the powerful and often overlooked abilities of our people to drive improvement – and to drive success. The core principal we employ at CDOT and at WSDOT respect for people: empowering our people and giving them the tools and the knowledge necessary to improve their processes..



What was advertised for today: short version

Lean is kind of cool, trendy.

And, it can be hard! Really hard.

So, why even try?

And, if I do try / when I do try, can you please give me some tips today?



Learning objectives for this session

Some answers to these issues / skepticism:

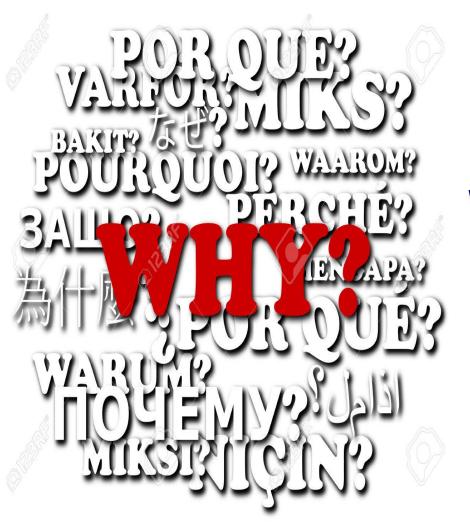
1. Why would state government transportation groups be interested in Lean, anyways?

I know about Lean, and I know that it helps in a lot of ways, including with efficiency. But come on, most people don't usually use the words "government" and "efficient" in the same sentence!

2. OK, I am from Missouri, so "Show Me".

Is it really doing any good for government transportation services, or is it just another "flavor of the month", a "flash in the pan"?

3. So, maybe Lean CAN work in one place in government, someplace special. **But it can't catch-on** all over the place for government transportation services, right?



Why is this topic important?

14, 2014 March

Director Of Office Of Research Integrity Resigns, Calls It Worst Job He's Ever Had

By: DSWright Friday March 14, 2014 9:32 am

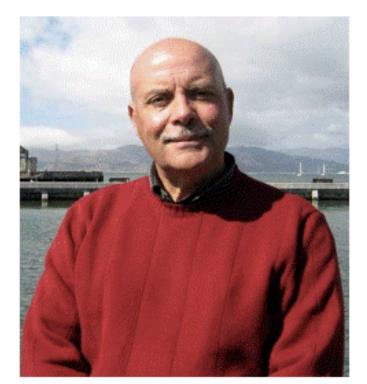


The Director of the Office of Research Integrity (ORI), David Wright (no relation), has resigned. His resignation letter reads as a comprehensive indictment of the federal bureaucracy which he worked for and called "remarkably dysfunctional" raising questions over the future of American research and innovation.

Wright had the job for 2 years and came to the post well qualified previously being a consultant to ORI as well as a historian of science at Michigan State University in East Lansing. He said one of his goals upon taking the job was to improve training programs. But what he encountered once taking his post frustrated him immensely.

In a letter to Dr. Howard Koh, Assistant Secretary for Health at the Department of Health and Human Services, Wright detailed his frustrations:

resources and ves get no



Fmr. ORI Director David Wright

The rest of my role as ORI Director has been the very worst job I have ever had and it occupies up to 65% of my time. The

spent navigating the rema http://news.firedoglake.com

" ... Wright explains that the 35 percent of his job that was spent working with science investigators in his department "has been one of the great pleasures of my long career. ..."

" ... The rest of my role as ORI Director has been the very worst job I have ever had and it occupies up to 65% of my time. That part of the job is spent navigating the remarkably dysfunctional bureaucracy to secure resources and, yes, get permission for ORI to serve the research community. I knew coming into this job about the bureaucratic limitations of the government, but I had no idea how stifling it would be..."

" ... What I was able to do in a day or two as an academic administrator takes weeks or months in the government ..."

Do you know people in government who experience this? takes weeks or montns in the government ..."

We have a problem in public service



We in public service <u>CAN</u> do something about that problem!

We <u>MUST</u> do something about that!



And at CDOT and WSDOT, we ARE doing something about that!



And, so are other transportation agencies





Lean:

Driving Engagement, Driving Improvement, Driving Success



Tuesday, October 17, 2017

My learning objective(s) for today's session is/are:

... to support this (these) organizational goal(s) at my own DOT:



My Key Takeaways and My Action Items	What <u>I</u> am going to do with this, and by When	People I need to involve

We hope you will have several takeaways today



Lean:

Driving Engagement, Driving Improvement, Driving Success



Tuesday, October 17, 2017

My learning objective(s) for today's session is/are:

... to support this (these) organizational goal(s) at my own DOT:



My Key Takeaways and My Action Items	What <u>I</u> am going to do with this, and by When	People I need to involve

What are your expectations?

And, of course, the Customer Pledge

View west from Cripple Creek

Thank goodness for great competition!

- Exhibit Hall B: Building an Intentional Culture
- Ballroom A: A Lean Approach to Problem-Solving: Facilitation Skills for Team Leaders
- Ballroom BC: All In: How I Learned to Stop Worrying and Love My Own Kaizen
- Ballroom D: Hope Inspired Leadership

- Room 315: Stories and Tools for Reflecting on and Reducing Failures
- Room 317: Creating
 Giants of Others:
 Developing Tomorrow's
 Leaders from Today's
 New Hires

What's inside today

- 1. Lean at the Washington State Department of Transportation
- 2. Lean at the Colorado Department of Transportation
- 3. Multinational Transportation Lean Forum
- 4. Your questions







What's inside today

- Lean at the **Washington State Department of Transportation**
- Lean at the Colorado Denartment of





I See What You Mean

WSDOT at a Glance



















Adding value to WSDOT employees...our customers... by providing services that enable employees to do their work simpler, faster, and less expensively through the practical use of tools and principles.

Lean Office





Russell Burgess, Lean Administrator

- Lean Six Sigma Master Black Belt
- 8 Years of Lean Experience
- 21 Years in the Air Force



Amber Sander, Lean Manager

- Lean Six Sigma Black Belt
- 16 Years at Alaska Airlines
- 5 Years at Alaska Airlines Lean Six Sigma Project Office



Sam Wilson, Lean Manager

- Lean Six Sigma Black Belt
- 6 Years at Washington's Lottery
- Small Business Owner for 6 years

WSDOT Lean Journey



Green Belt Certification Program Measured results for projects

What are the employees doing with the provided training?

What is Lean at WSDOT?



- Systematic
 Problem Solving
- Elimination of wastes
- Customers define value
- People-first philosophy



Types of Waste

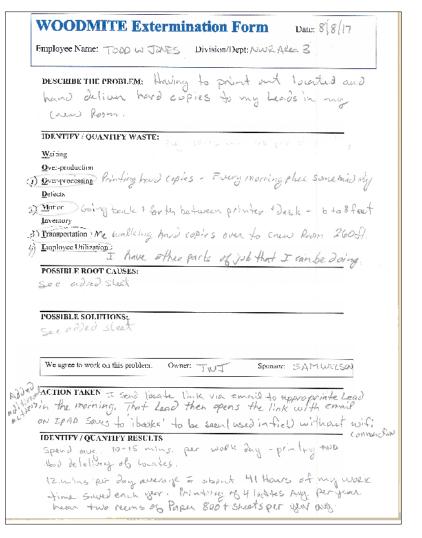


8 Types of Waste



WOODMITE

WASTES **CHECK SHEET** WAITING Waiting for information, equipment, materials, parts or people. Examples: Waiting for approvals; Waiting for equipment; Waiting for large batches OVERPRODUCTION Making more of something - making it earlier or faster - than it's needed Examples: Extra copies of reports; Redundant storage (hard and soft); "Reply All" on emails DEFECTS Information, products and services that are incomplete or inaccurate Examples: Inaccurate applications: Broken parts: Missed deadlines Any movement by people that is not of value to the customer Examples: Repetitive key strokes; Walking between equipment; Switching Accumulation of parts, information, applications, etc. beyond what is required by Examples: Stockpiling supplies; Information piling up for data entry; Keeping data longer than necessary TRANSPORTATION Unnecessary movement of materials, information or equipment Examples: Hand-offs between functions; Multiple reviews; Sending, resending



Solution: Stop printing "Leads"



...saves Todd 41 hours per year + 2 reams of paper.



One sample year!



WOODMITE Extermination Form

Date: 08/16/ 2017

Employee Name: Michael Varney

Division/Dept: Everest

DESCRIBETHE PROBLEM: Every year we plant thousands of Ported Plants. We had to carry them from the Traller to the planting areas, we could only carry 4-6 plants at a time by hand, we would firch them together without Singer on the pots our hards and arms hurt all the Time doing 2+ this way IDENTIFY / QUANTIFY WASTE:

(Waiting Planters are waiting for pots

Over-production

Over-processing

(Motion) Goalbling 2-3 pots per trand.

Transportation Marly through cough terrain with 4 to 6 pots Employee Utilization) Takes more people to more large amounts of potted

POSSIBLE ROOT CAUSES: Too many +1175 for thems only a few Plants and Less brooks to rest the hards and fingers.

POSSIBLE SOLUTIONS: found a way to transport plants from the Trailers to planting area Safer and with Less hand and Disper motion. Wheel barrow, batok, By hand + do nothing?

We agree to work on this problem. Owner: Varney

ACTIONTAKEN I recto Sitted glastic totes to book pack frames so that we could transport more planes at one time and be safe on his and traits. Stopp plants per tote.

IDENTIFY / QUANTIFY RESULTS (See attacke)

My solution worked great, we can now more place Plants at one time on our backs with out the hand and arm pains. we can now Transport the plants in, about half the time. was waiting for planters, Hands + arms are free -Save an LAI Chiome,

Solution: DIY backpacks for plants

...saves 5,000 hours per year.





WOODMITE Extermination Form

Date: 8 9 17

Employee Name: Jim Lavel

Division/Dept: NWR AREA 3 Mitigration

in fransit in back of box truck leak from the spray wand. Causes periodice liquid + Blue dye spilling in truck.

IDENTIFY / QUANTIFY WAS I'E.

Waiting

Over-production

 $\underline{\mathbf{O}}$ vor processing

(Delects) leaking herbicide (Safety + Environmental concerns)

Inventory - Extra buckets record to store chemical + to

Transportation

Employee Litilization waste time + presible expression to chumbrals while cleaning spills

POSSIBLE ROOT CAUSES:
During trasport to job site motion of truck causes
excess herbicite in tube I would to leak out.

Possible solutions: Furty + clean truck during each movement. Kap off tip of wand. Nount 20 mins of time to pour chamitant + clean part tank x 2 a day on occurage.

We agree to work on this problem. Owner: Timbouth Sponsor: TWI

action taken since used + tours ported multiple times a day not practical to empty + chean, capo of tip of wand by using used rubber glove that the sprayer employee was

IDENTIFY / QUANTIFY RESULTS

have not had spilled product in many months.

Ho mins per day @ 2 days per week = To hours per person

To Hours X potential to KADO HOS.

Solution: Glove on pesticide sprayer



...saves 420 hours per year plus increases safety.



What's inside today

- 1. Lean at the Washington State Department of Transportation
- 2. Lean at the Colorado Department of Transportation
- 3. Multinational Transportation Lean







A (very) little bit about us



WHAT is CDOT

Maintain and Keep Transportation Safe

- •23,000 lane-miles of Interstate and State highway system
- •3,400 bridges
- routine maintenance
- bridge repair and resurfacing
- snow removal
- safety improvements
- •FLOOD RESPONSE!

Get More Out of the System

- traveler information
- ramp metering
- signal synchronization
- express toll lanes on I-25

Distribute Funding to Local Governments

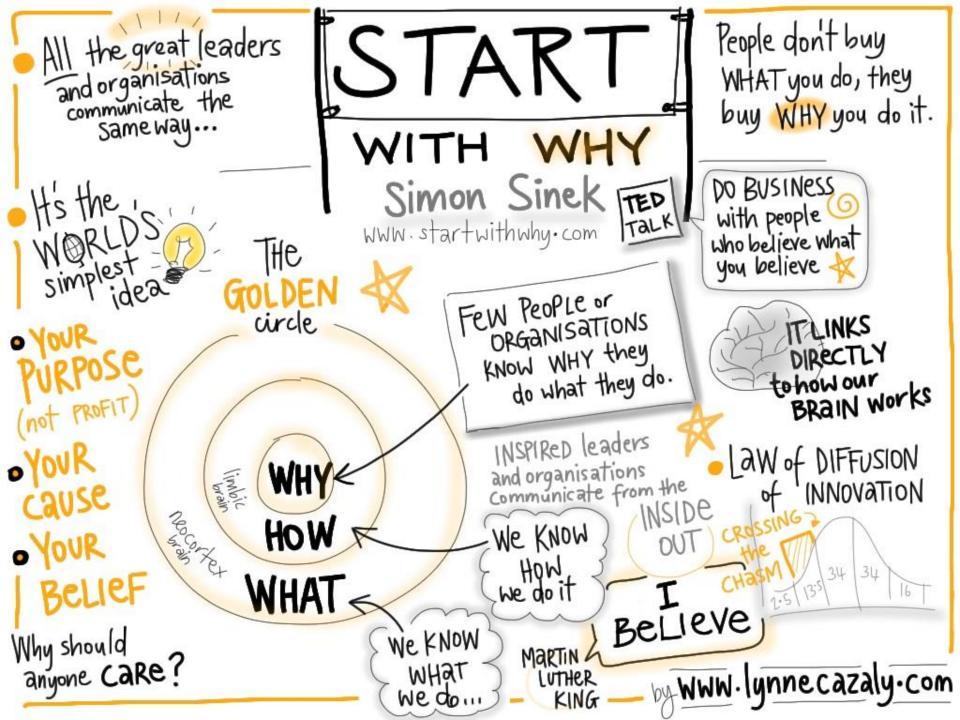
- aviation
- •federal funds to Metropolitan Planning Organizations
- grants to local governments
- transit

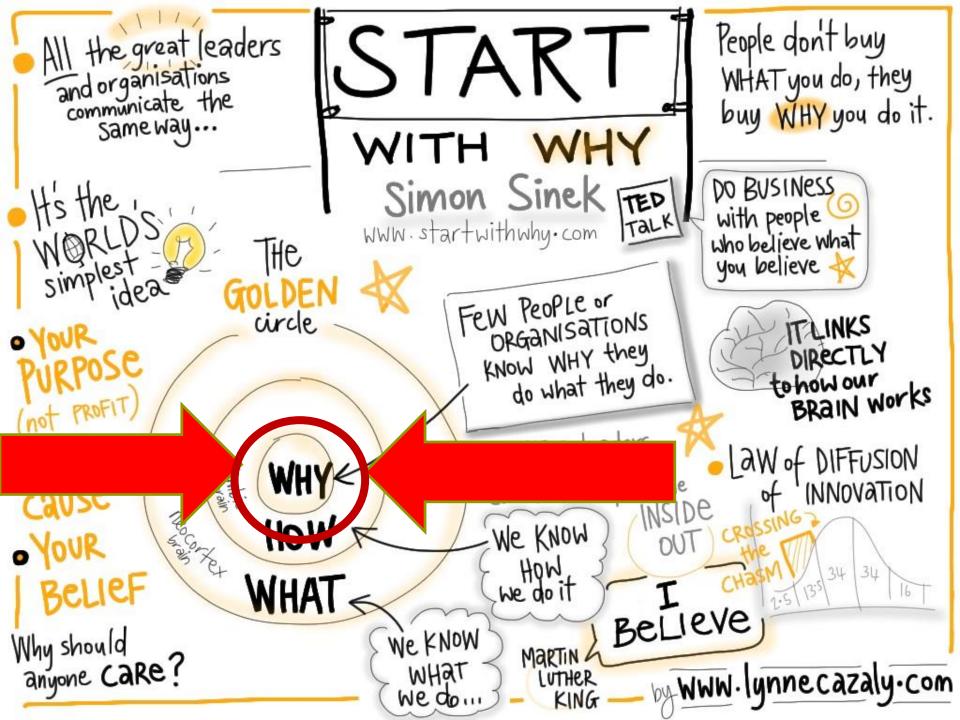












"Making government more effective, efficient and elegant means listening to our state employees and learning from them how we can do better."

Colorado Governor John
 Hickenlooper



"That is why we initiated the Lean program in almost every state agency, where employee teams are now actively identifying waste and inefficiency to create savings."



Director Of Office Of Research Integrity Resigns, Calls It Worst Job He's Ever Had

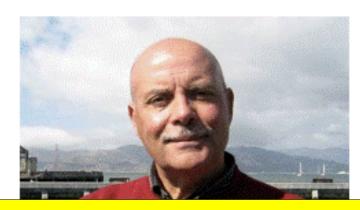
By: DSWright Friday March 14, 2014 9:32 am





The Director of the Office of Research Integrity (ORI), David Wright (no relation), has resigned. His resignation letter reads as a comprehensive indictment of the federal bureaucracy which he worked for and called "remarkably dysfunctional" raising questions over the future of American research and innovation.

Wright had the job for 2 years and came to the post well qualified previously being a consultant to ORI as well as a historian of science at Michigan State University in East







The rest of my role as ORI Director has been the very worst job I have ever had and it occupies up to 65% of my time. That part of the job is spent navigating the rema

resources and ves get of http://news.firedoglake.com

Fmr. ORI Director David Wright







Lean involves Respect for people and continuous improvement

Specifically, **the people** who work within the system being improved (and, people like customers!)

Continuous improvement: Challenge and improve everything.

Everyone, every day, improving every process and every product, to benefit every customer

1. Global (cross-functional) Improvement

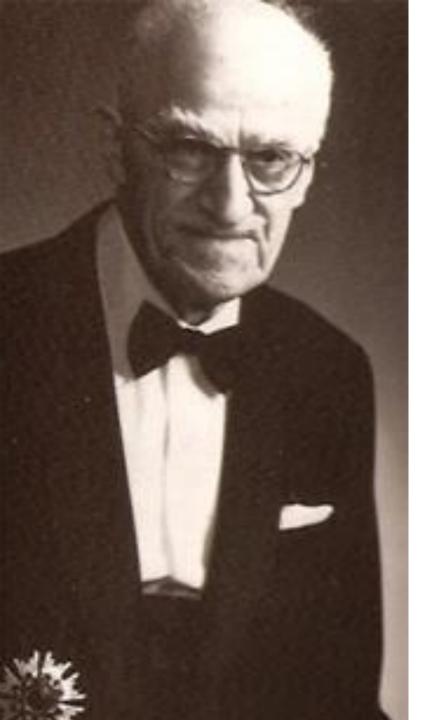
2. Lean Everyday Ideas

3. Change management: the people side of change

1. Global (cross-functional) Improvement

2. Lean Everyday Ideas

3. Change management: the people side of change



"All improvement happens project by project, and in no other way."

- Joe Juran

⁵⁶ **56**

Access Permits Process Improvement

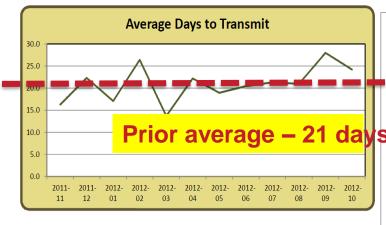


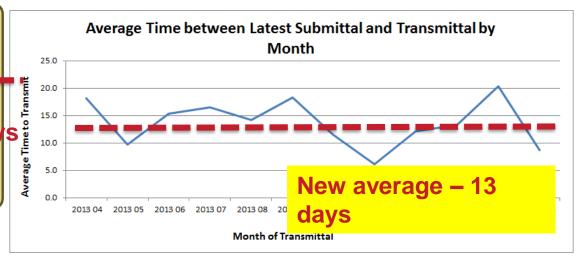
- 1. Reducing total permit cycle time and decreasing variability of on-time delivery
- 2. Improving visibility and customer communications
- 3. Establishing tracking of customer satisfaction and a plan to improve this measure over time



Faster Permitting: Access Permits Process Improvement Project

Sustained reduction (38% average) in time to issue access permits (from submittal of application until applicant has permit).





⁵⁸ **58**

Access Permits Process Improvement



- 1. Reducing total permit cycle time and decreasing variability of on-time delivery
- 2. Improving visibility and customer communications
- 3. Establishing tracking of customer satisfaction and a plan to improve this measure over time

Finalist for the International Team Excellence Awards!!

47

Oversize / **Overweight** (OS/OW) **Permits** process improvement project

- 60% fewer errors
- 32% faster

We Improved This! We Reduced Turnaround Time and the Error Rate for Issuing OS/OW Permits

In 2012, we streamlined how we issue Oversize / Overweight (OS/OW) Permits to truck drivers. We reduced the number of steps in the process from 25 to 11. Doing this reduced the turnaround time by over 30% and also reduced the error rate by 60%!

Since 2012, we have kept the error rate low and the turnaround time fast. And, we continue to make additional improvement: in 2014, we will launch a new OS/OW system that will make the process even easier for our customers!

And, in May 2013, our Team was recognized as a Finalist for International Team Excellence Award!



The Improvement Team: Kevin Mindenhall, Tanya Davis, Dan Wells, Craig Smith, David Johnson, Phillip Anderle, Jack Stieber, Mac Hasan

Also a Finalist for the International Team **Excellence Awards!!**

state agency, where employee teams are now actively identifying

Oversize / **Overweight** (OS/OW) **Permits** process improvement project

ASQ Case Study online



ASQ is a global community of people passionate about quality, who use the tools, their ideas and expertise to make our world work better. ASQ: The Global Voice of Quality.

Growledge Center Membership Certification Training Books & Standards Conferences & Events

Knowledge Center

Lean Project Helps Colorado DOT Provide Disaster Response Following Historical Flood

by Adem Wise





Construction crews begin cleanup on May US 35 in Colorado following the September 2013 floats

When flood waters ravaged portions of Colorado in Segtember 2013 – killing crops, inundating homes, and bucking many miles of roadways – countiess federal, state, and municipal government workers agrang into action helping citizens. The dissalar damaged 200 lane miles of the state's highway system and demaged 120 bridges. White the Colorado Department of Transportation (CDOT) expected to have its highway system reperied and nectween closes the recovery could have taken much longer had it not been for the performance of one Lean improvement project learn.

GASE STUDY AT A GLARGE ...

Lean Project Helps Colorado DOT Provide Disaster Response Following Historical Flood



The Colorado Department of Transportation oversize and overvieight truck permit
writing team initiated a Lean improvement project in May 2012 to guicken response
times and remove unnecessary steps for truck drivers.

 -Dy May 2012, the permit team not only streamined processes, but also reduced its major error rate from 6 percent to 2.4 percent.

Grants reimbursement improvement project

The grant reimbursement process was streamlined to eliminate 26 low-value-add steps; this reduces the reimbursement process time to approximately 10 business days (from the previous 45-plus days)



1. Global (cross-functional) Improvement

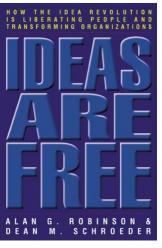
2. Lean Everyday Ideas

3. Change management: the people side of change

Improvement by Front-line people

"It can be very difficult for managers to accept the fact that front-line ideas offer four times more improvement potential than their own. But it is true."





Hydraulic Fluid Holding Box



An improvement for this issue:

When I take hydraulic fluid hoses off of our equipment, what do I do so that I am not "wearing" the hydraulic fluid?



Hydraulic Fluid Holding Box



And, how can we stop spilling this hydraulic fluid into the environment ????



Hydraulic Fluid Holding Box

Featured Everyday Idea for October 2013

Over 340 replications to date!

Still "replicating": we have about **1,000 pieces** of equipment which could benefit



New Toolkit Makes Guardrail Repair Faster, Easier, Safer

Featured Everyday Idea for November 2013





Figuring Out Safer Delineation Repairs

"Our employees used pipe wrenches or whatever other devices they had. Sometimes the tools would slip. I thought we could do something safer."

New tool replicated 66 times so far

- <u>Safer</u>: less opportunity for tool to slip
- Faster: 5 minute job now takes less than 1 minute
- Less costly: Reduction in replacement of delineators, saving approximately \$19,000 annually



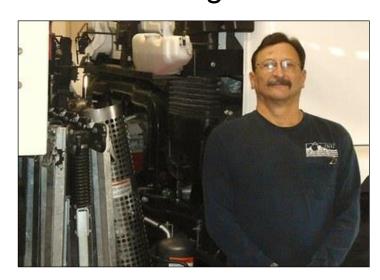
Wing cart allows faster, safer removal and installation

Safer and faster: From 4 staff-hours to 5 staff-minutes



Cable guardrail spreader tool improves efficiency and safety

"This is a much better way to do cable rail post repairs," Heidenreich, a seven-year CDOT employee, said. "It reduces the physical force required to separate the cables, and it keeps them firmly in place while work is being done."



Bill Heidenreich



Template improves efficiency, quality when marking and drilling holes to install signs



Simplification of data entry for Project Managers saves equivalent of about \$400,000 annually

 It often took many hours for a project manager to input data -- as much as eight full hours each month for a single project – due to double data entry requirements

 This improvement has slashed that to less than 30 minutes per month.

Improvement Of The Month

Poz-Loc Wedge Puller





Reason for the improvement:

Wedges that lock Poz-Loc road signs in place would rust or freeze which made it difficult or impossible to remove using a slide hammer.







Danny

Stithem

Brad Elrod TMI

The Innovation:

The Poz-Loc Wedge Puller uses a hydraulic press to remove the wedge.

The Benefit:

- Works on posts in all conditions
- Eliminates risk of injury from using the slide hammer
- Durable design
- \$52 to replicate

Read more at: http://bit.ly/2yJoBQ6









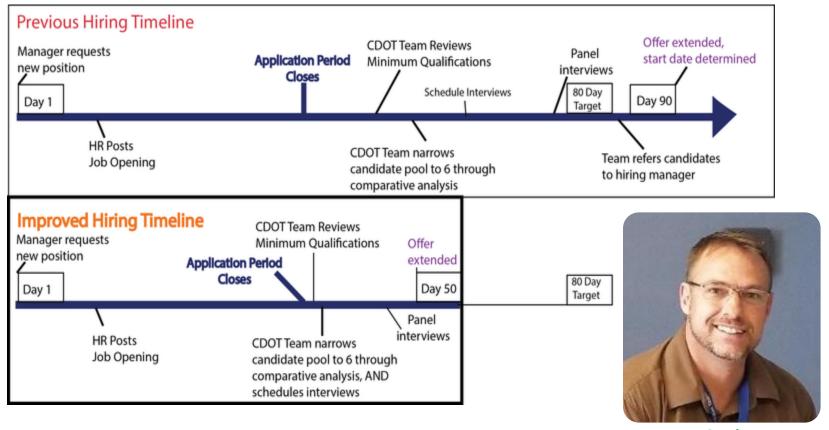




Improvement of the Month: Working with Customers to Reduce Time-to-Hire



Working with R1 customers, reduced time-to-hire for Region 1 Maintenance - from 90 days to 50 days: 40% improvement!



Jacob Finger

Improvement Of The Month

On-Boarding Orientation



Catie Weber, Admin Assistant



Jeff Tatkenhorst, Deputy Superintendent

Reason for the improvement:

Orientation binders were bulky and out of date.

The Innovation:

Catie used Power Point to convert presentation materials and reduced them to the minimum required by the state to bring on new employees.

The Benefit:

- Saves \$10,000+/year in labor and supplies
- More effective orientation
- New employees get more time training with their supervisor

Read more here: http://bit.ly/2v2NOE0
Improvement of the Month: Bhatt Chat August









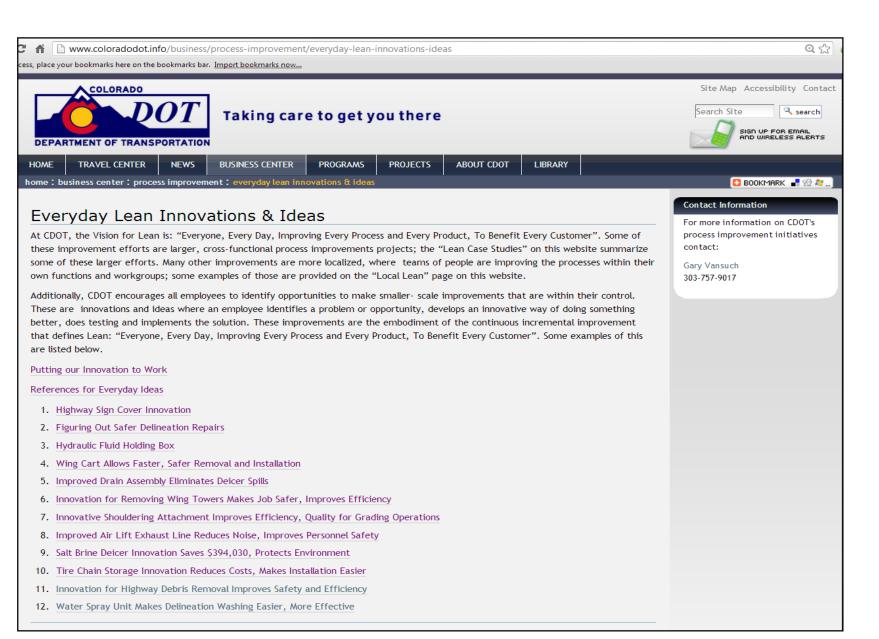








Many more online at LeanIdeas.CoDOT.gov



1. Global (cross-functional) Improvement

2. Lean Everyday Ideas

3. Change management: the people side of change

"In order to change the world, you have to get your head together first."

- Jimi Hendrix



Helping all Team CDOTers be successful with each and every change



The "technical side" – The application of knowledge, skills, tools and techniques to project activities to meet an improvement project's requirements, including Lean Projects



"The change" itself— Improving performance by moving from a current state to a future state and changing how work is done



The "people side" – The process, tools and techniques to manage the people side of change to achieve the required business outcome

Awareness

Desire

Knowledge

Ability

Reinforcement®



More tomorrow! Wednesday @ 1:45, Room 317

Change Management: Helping Our People Be Successful With Each and Every Change







A Winning Combination

Global (cross-functional) Improvement

Lean Everyday Ideas

Change management: the people side of change

A Bright Idea in American Government

CDOT Lean Process Improvement Program Recognized as 2015 Harvard Ash Center Bright Idea in Government

February 18, 2015 - DENVER – The Ash Center for Democratic Governance and Innovation at the John F. Kennedy School of Government, Harvard University, recognized today the Colorado Department of Transportation's Lean Process Improvement Initiative as a part of the 2015 Bright Ideas program.





Bright Ideas is an initiative that recognizes creative and promising government programs and partnerships. The initiative is offered through the Innovations in Government Program, a program of the Ash Center for Democratic Governance and Innovation at Harvard Kennedy School.

What's inside today

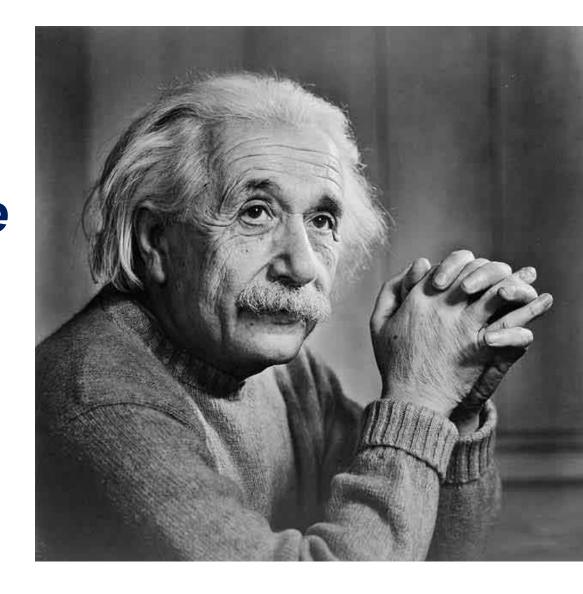
- 1. Lean at the Washington State Department of Transportation
- 2. Lean at the Colorado Department of Transportation
- 3. Multinational Transportation Lean Forum
- 4. Your questions







"The significant problems we face cannot be solved at the same level of thinking we were at when we created them."



- Dr. Albert Einstein

One way to help us change our thinking: Communities of Practice



Communities of Practice

Communities of practice are groups of people who share a concern or a passion for something they do, and learn how to do it better as they interact regularly.



Communities of Practice

- A community of practice is not merely a club of friends or a network of connections between people.
- It has an identity, defined by a shared "domain of interest" (concern, passion, issue, etc.)
- Membership therefore implies a commitment to the domain.



"Great things in business are never done by one person; they are done by a team of people." – Steve Jobs



Transportation Lean Forum: What it is

- Many governmental organizations which operate highway and transportation systems are utilizing Lean.
- To help promote Lean and provide support to each other, some of these organizations formed the "Forum for Lean Process Improvement in Governmental Highways / Transportation organizations" in June 2012.
- This group is also referred to as the Transportation Lean Forum (TLF).

Building and Implementing a Community of Practice

Spectrum of "types" of Communities of Practice: level of commitment

Sharing only

Sharing, and the occasional joint effort

Extensive joint work

Building and Implementing a Community of Practice

Spectrum of "types" of Communities of Practice: level of commitment

Transportation Lean Forum started here

Sharing, and the occasional joint effort

Sharing only

Extensive joint work

"Never doubt that a small group of thoughtful people can change the world. Indeed, it is the only thing that ever has."

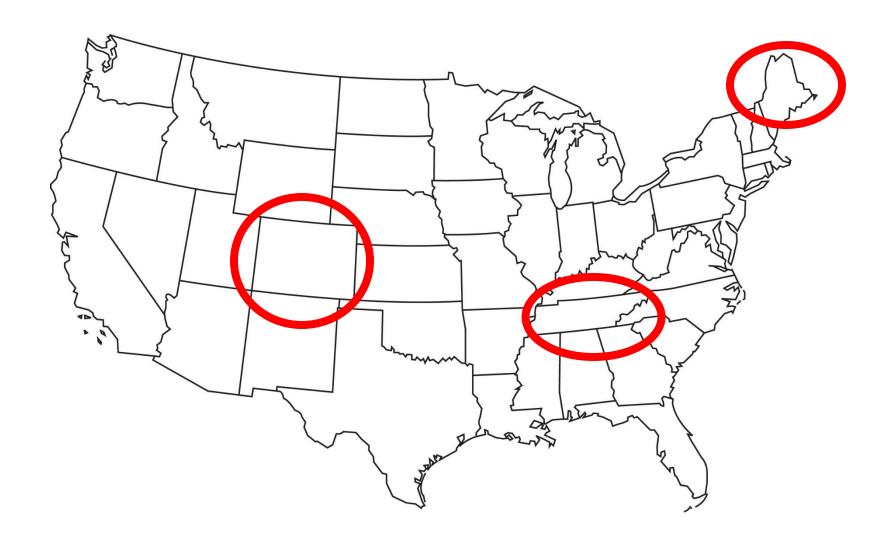
Margaret Mead



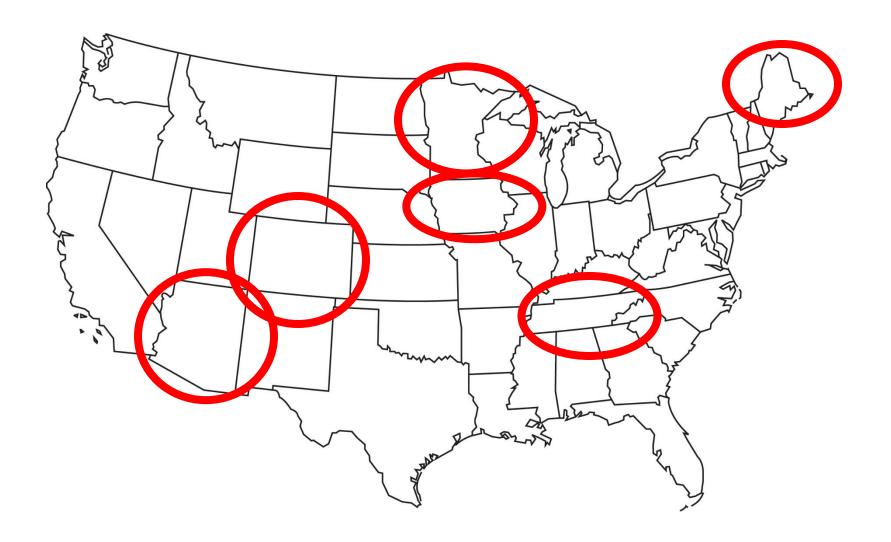
Transportation Lean Forum ... Origins



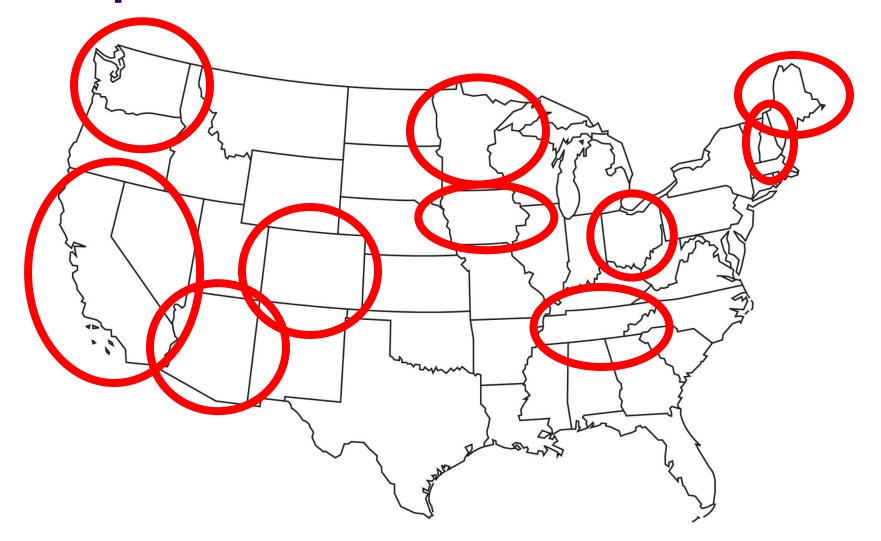
... early 2012



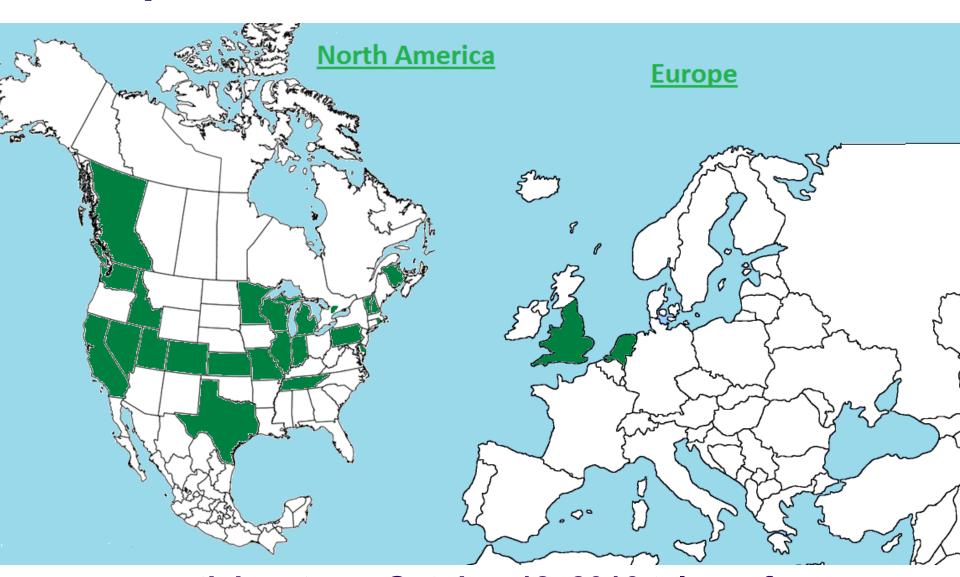
... the start, in June 2012



... September 2012



... December 2012



... participants on October 18, 2016 teleconference

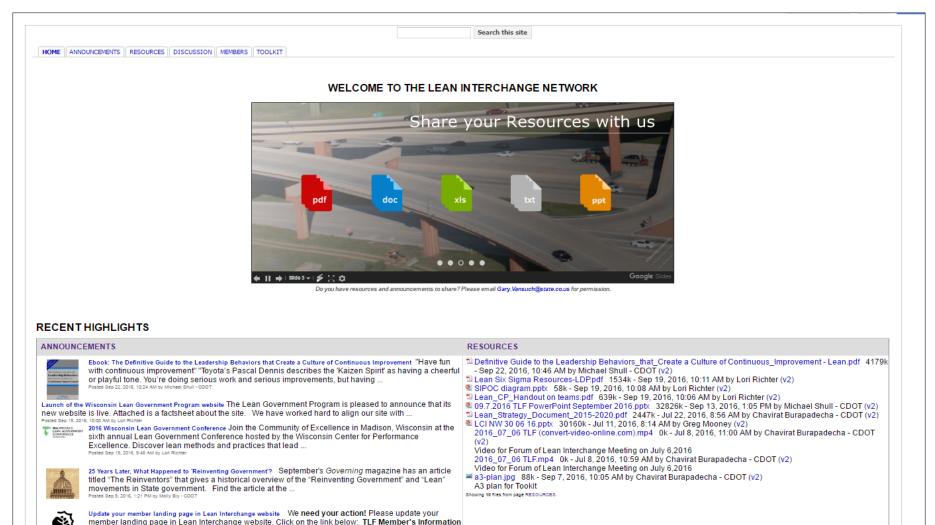
Transportation Lean Forum ... everyother-month teleconferences

- INTRODUCTIONS AND ROLL CALL Where are we all located?
- 2 John Baranzelli Office of Rapid Results State of Illinois Central Management Services
- Jason Hallett, Dawn Vincent-Dixon, & Greg Bryden

 Lean Six Sigma tools & principles used during their org. realignment New Brunswick Department of Transportation and Infrastructure
- 4 Molly Bly & Chavirat Burapadecha Lean Interchange Colorado Department of Transpiration Office of Process Improvement
- 5 AASHTO SCOPM Organizational Excellence Task Force
- OPEN FORUM What's on your mind?
- **7** CLOSE OUT

AGENDA Oct 18, 2016

Between meetings: "The Lean Interchange"



MEMBERS

Bhowing posts 1 - 5 of 25. View more:

Building and Implementing a Community of Practice

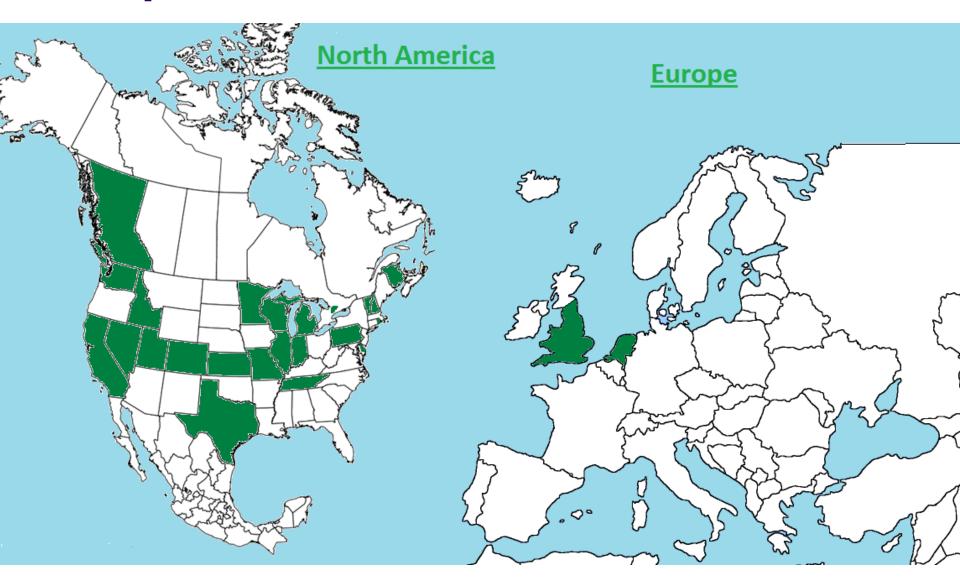
Spectrum of "types" of Communities of Practice: level of commitment

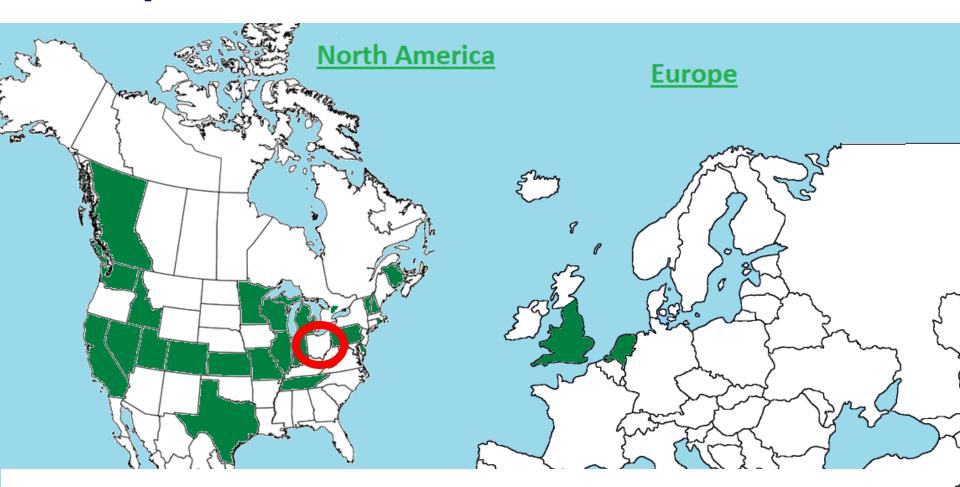
Transportation Lean Forum started here

Sharing, and the occasional joint effort

Sharing only

Extensive joint work





Borrowing of Lean "Project Selection Toolkit"

PAGE 1



With this quick-take assessment, you can pinpoint opportunities for putting your Lean know-how to work.

PROJECT SELECTION ASSESSMENT

INSTRUCTIONS: Read each item, then check a box on the 1-to-5 scale to show how often this occurs in your workplace:

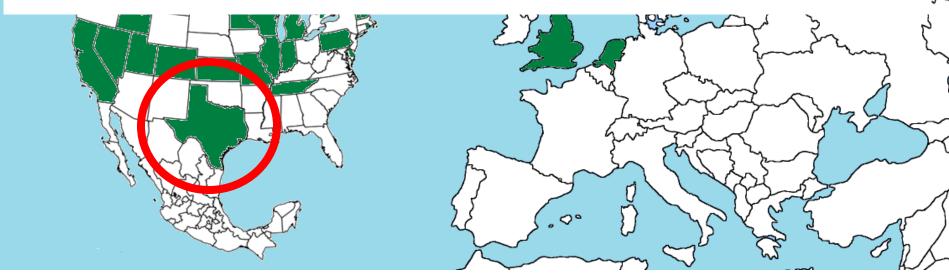
1 = never 2 = rarely 3 = sometimes 4 = often 5 = very often

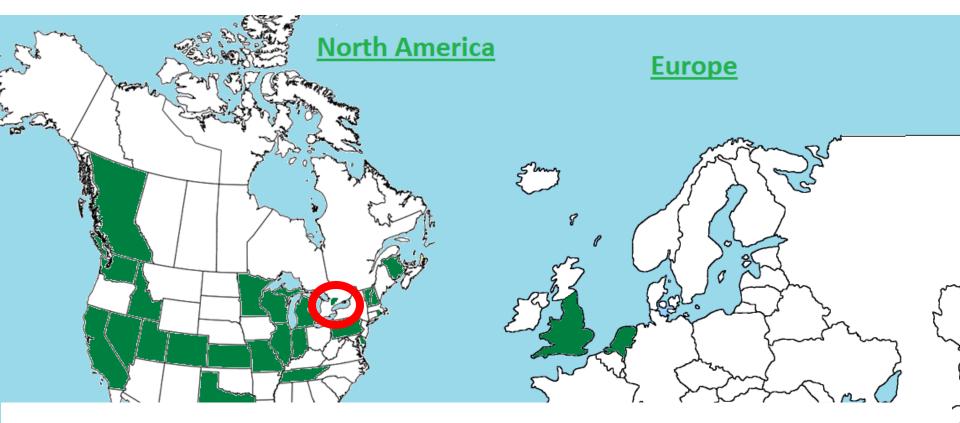
Have a well-defined scope as you respond to each assessment item. Avoid trying to evaluate the agency as a whole.
 Rather, focus on the work area or office or section that you manage, and maintain this same scope throughout the assessment. If you don't manage a given office or section, narrow your scope to your immediate work area.

1	In my work area, we spend too much time looking for the items we need to do our jobs: files, materials, equipment, and so on. If the physical work area was better organized, we'd be more productive and less frustrated.	1 2 3 4 5
2	When we get inputs from customers or from other sources (from paper forms or online web forms, for example), we often find that the incoming information is incomplete or inaccurate. We have to circle back to people to get the information we need. If we received complete information from them the <i>first</i> time around, we'd be a lot more efficient.	1 2 3 4 5
3	We find ourselves wondering what our customers are thinking. Are we meeting their needs and expectations? Are they happy with our work? Are there things we can do to increase their satisfaction? If we had answers to these questions, we could serve our customers better.	1 2 3 4 5
4	My co-workers and I don't really know whether our day-to-day work is having a positive impact. We can't tell for sure whether it's meeting customer expectations, helping the agency achieve larger goals, or contributing in some other way. If we had a set of meaningful measures that were easy to see and understand, we'd have a better sense of how our work makes a difference.	1 2 3 4 5
5	I work with good people, but it sometimes seems like one person doesn't know what the other person is doing, even though we all work in the same work process. If we had a better sense of what each person does and how we all fit together as one system, we'd be more productive and probably even happier.	1 2 3 4 5

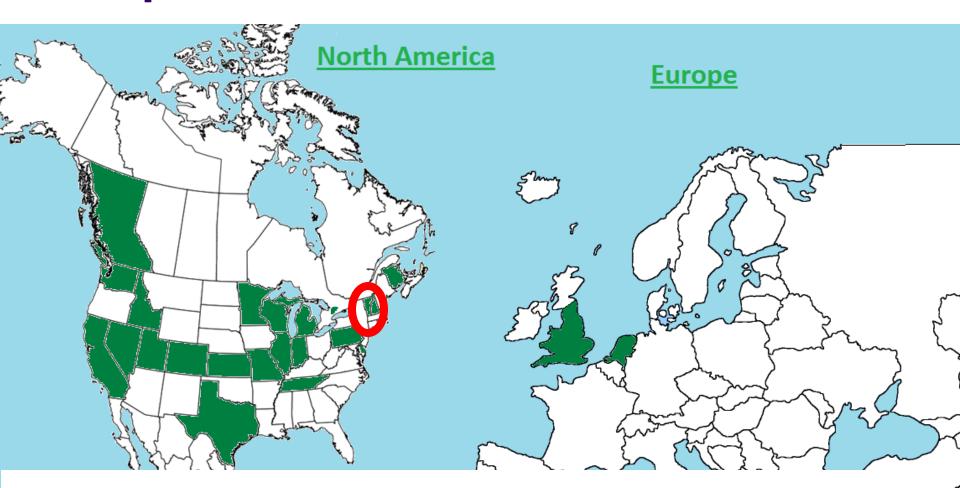
North America

"... Can't thank you enough for sending ... been a great resource as I work through the content to get a flavor of the body of work. ..."





"... the Transportation Lean Forum continues to grow – and we are thrilled to be a part of that. ..."



Benchmarking about Change Agent Network, February 2016

Building and Implementing a Community of Practice

Spectrum of "types" of Communities of Practice: level of commitment

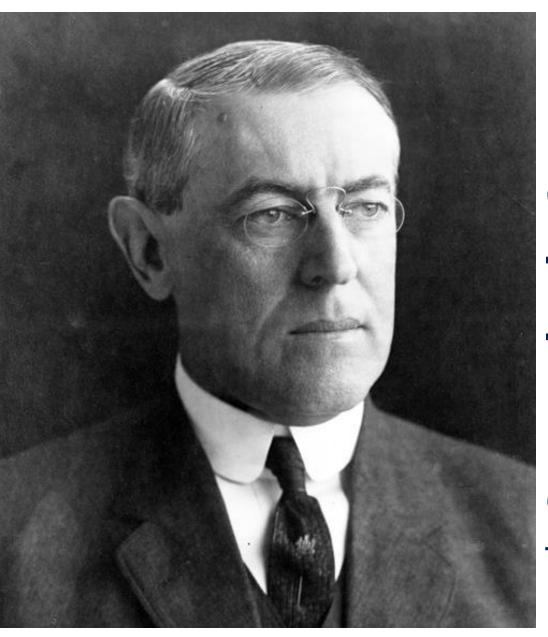
Transportation Lean Forum evolving to here



Sharing, and the occasional joint effort

Sharing only

Extensive joint work



"I use not only all of the brains that I have, but all that I can borrow.

- President Woodrow Wilson

What we covered

- 1. Lean at the Washington State Department of Transportation
- 2. Lean at the Colorado Department of Transportation
- 3. Multinational Transportation Lean Forum
- 4. Your questions







"A good plan, violently executed now, is better than a perfect plan executed next week."

What's on your list to do?



Lean: Driving Engagement, Driving Improvement, Driving Success



Tuesday, October 17, 2017

My learning objective(s) for today's session is/are:

... to support this (these) organizational goal(s) at my own DOT:



My Key Takeaways and My Action Items	What <u>I</u> am going to do with this, and by When	People I need to involve

