LEANING IN STREAMLINING THE NPDES PERMIT PROCESS

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Why is Permit Backlog Important?



- Up to date WQS
- Recent Reasonable Potential Analysis
- Happy customers

What is Lean



- Lean is a set of concepts, principles and tools used to create and deliver the most value from the customer's perspective while consuming the fewest resources, and by engaging people in continuous problem solving.
- Lean is a culture not just a set of tools!





By the end of the presentation you will be able to ...



Use AMS to achieve Mission Outcomes



Create and use standard work



See your work as a process



Identify and resolve problems



Identify waste in your process



Use Plan, Do, Check and Act



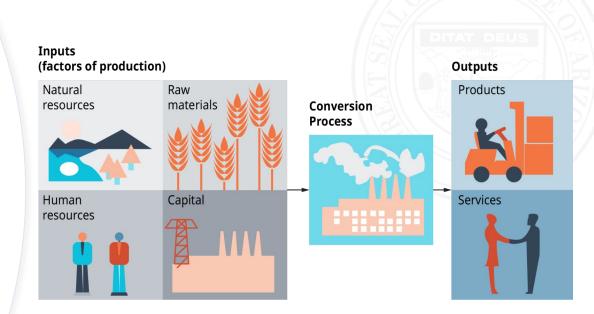
Determine value by asking the customer



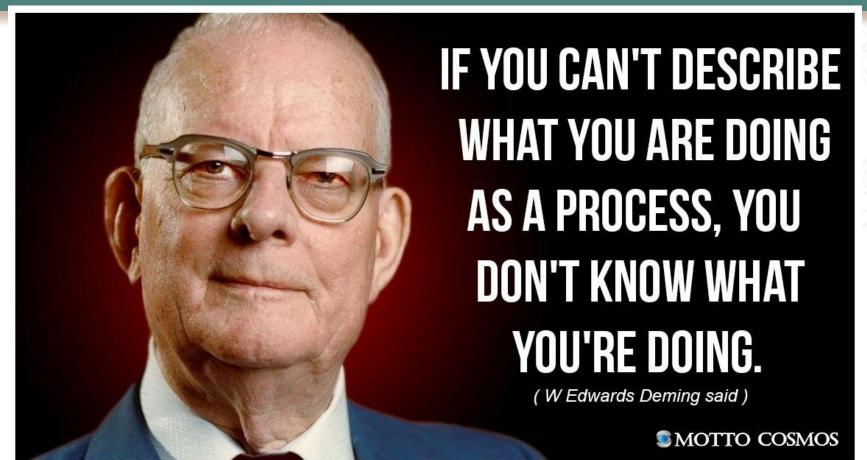
Visually manage your work



What is a Process?

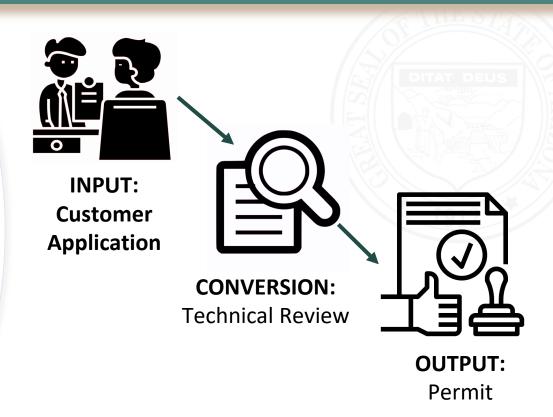








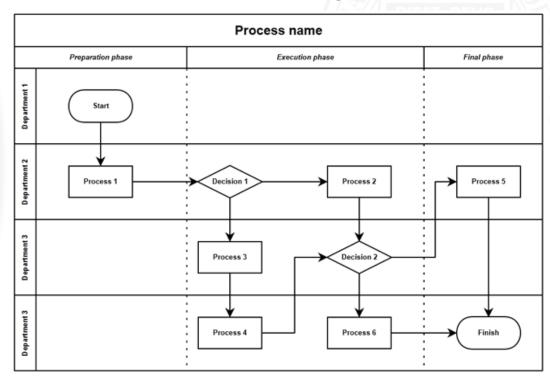
Process in a Regulatory Agency





Mapping the Process

Swimlane Map



8 Wastes—DOWNTIME





Andon Tic Sheet						
Andon Cause	Jan	Feb	Mar	Apr	May	Jan
Magneter report		111	4	ч		
CART Entry (Trich and	(an)	1111	11.			
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by Bull						
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Defects

Errors or mistakes causing rework to correct the problem. Abnormalities and exceptions to the process.



Transport

Moving material or information more than absolutely necessary.



Overproduction

Creating too much material or information. Excess inventory.



Waiting

Waiting for material or information to be processed. A stoppage in the process.



Non-Utilized Talent

Lack of cross-training. Not sharing skills & talent. Not recognizing the value of improvement ideas from all levels of the organization.



Inventory

Having more material or information than you need to fill customer orders. A build-up of orders within a step of the process.



Motion

Movement and motions of people to access or process materials and information more than absolutely necessary. Poor ergonomics.

		STAFFSUM	MARY SHEET			
	TO	ACTION	SIGNATURE"		DATE	
1	Share Astimony, Unit Manager	Review	AL /A	Lu	1/16/18	
2	Kanen Ceiteilt, Section Manager	Review	Hora Colabe		1/25/18	
1	Doug Barkers, Admin	CTS	1600	Margar	2/12/10	
4	Tanner Berkelium, Beputy Einschor	Approval	Jarguer	Berkelye	1/12/18 1/L	
5	Ultry Raden, Director	Signature	Jun 1	2	3/9/18	
6	Josh Tin, Administrator	Docket Sting, Making, Return failer	Trasse	An	4/15/18	
ACTION DITICIE: TITUE		PHONE:	TRANSMITTAL BATE:			
SURECT Approval for Decision				Upon Signatura		
Vie	lations of Statute (Immer	fiate applicability):	Vieletions of Stat	teta (Requires 10-day n	otice to facility	
	A.R.S. MS-Detection & F		☐ A.R.S. 649 — Financial Responsibility			
A.S.S. \$48 - Performance Standards		A.S.S. \$45 Annual Fee				
			☐ A.R.S. 549-Excise Tax			
			Date of 30-day notice: Date: Method: Method			
	MMARY					

Excess Processing

Processing more than necessary to achieve customer, legal, or policy requirements. CYA.



Critical to Quality (CTQs)

Key measurable characteristics which must be met in order to satisfy the customer





Writing a CTQ



What customer said.....

Time is money, I can't afford permit delays.



Actionable Quantitative CTQ

Permit must be issued within 14 calendar days of application



What is standard work?

The documented, current, SINGLE, BEST WAY



- Agreed upon
- Documented
- Current best method

We know **today** how to perform the work



Example

Descri	ption: Standard work Employee Time Entry (without Accounting Template)				Author:	Mary Canez & Kristin Berry	
	ss Owner:	Business and Finance		Rev. 1/18/2022 Date: 1/18/2022			
suppli	es	HRIS - YES			Expiratio 7/17/2022 n Date:		
Safety:	:			5S:			
Process Map		nployee	Enter hours Verify hours	sign Certification Submit	EN	Total ET: 1 day Total TT: 17 min	
Seq.		portant Steps - What? Process segments	Desired Outcome Resultant outcome from the process step (Inputs/Outputs)	Key Points - How? (Critical to Quality)		Reasons - Why? for key point Items	
1	Log into YES		To access the ETE template	https://hrsystems.azdoa.gov/	State of AZ employees submit time worked through HRIS - YES		
2	Employee on this t	eft hand corner of screen is oyee Time Entry (ETE) Tab - Click hist to open ETE Menu and than the ETE menu tab. Then Click on Time Entry Form		Click on ETE Time Entry and then ETE Menu and then Time Entry Form	Screen needs to be opened to ente hours worked		
3	for Week one Select Add under the under Function code r		Since this is your first entry add under Function code must be selected so Items you are entering will be saved	Click the down arrow button under FC	Since this is your first entry add under Function code must be selected so Items you are entering will be saved		



Problems are GOLD!

"Problems are gold to be treasured, not garbage to be burned."



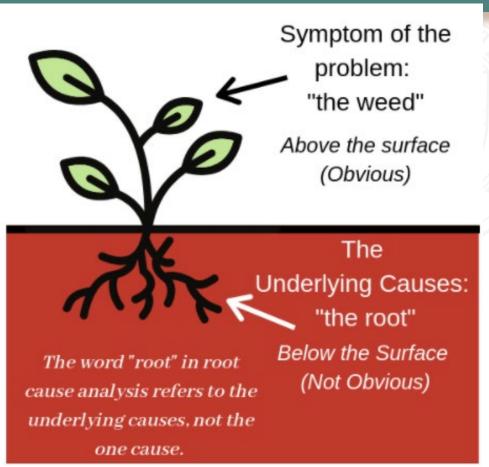


Don't Jump to Problem Solving





Find Root Cause(s)





Prioritize your Problems!

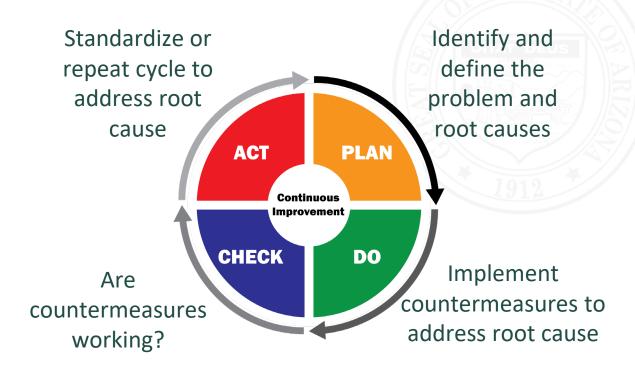
Focus on those with the greatest impact and the highest frequency





Structured Approach

4-Steps





What is Visual Management?

The use of tools to communicate information visually

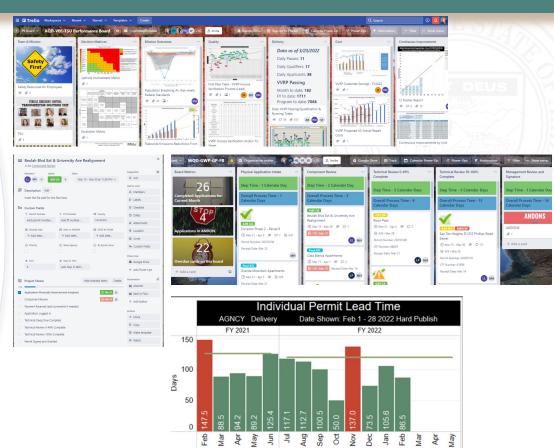






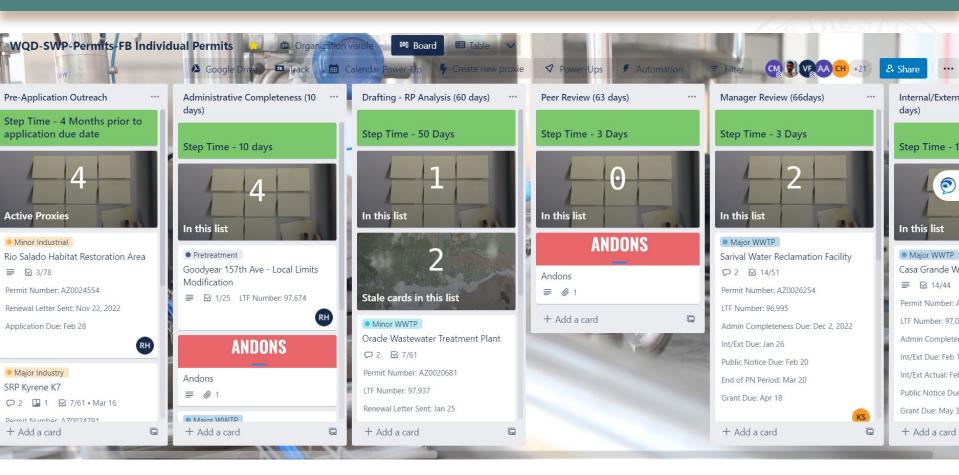
Types of Visual Management

Trello
Tableau
Google Sheets



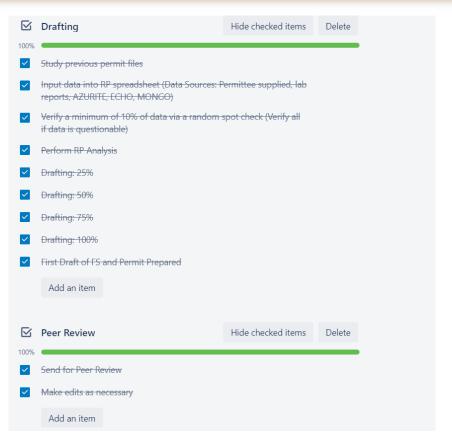
Visual Management





Visual Management







What's next?



- Achieve and sustain zero permit backlog
- Bring down permit issuance times to <70 days
- Simplified permit renewal





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Questions?