Streamlined Permitting for Land Development Projects

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DES Innovative Permitting Initiative

- Make it Easier for Environmentally-Superior Projects to Move Through State and Local Permitting Processes
- Improve Coordination within DES and with Municipalities and Other Agencies
- Increase Use of Better Development Practices

Outcomes of Process Streamlining to Date:

(1) Integrate & Standardize Processes of 4 Programs:

- Wetlands
- Shoreland
- Subsurface
- Alteration of Terrain



(2) Proposed New Integrated Land Development Permit

 optional, alternative to multiple single permits, with
 structured, coordinated pre-application process

Lean in Government



Lean: Excellence in Government



Improving Environmental Agency Processes with Lean and Six Sigma

Over the past few years EPA and state environmental agencies have experimented with an exciting new approach to improve government processes. More than 30 States and many federal agencies are using Lean and Six Sigma to achieve dramatic results. EPA, in partnership with ECCG, is working to expand the use of this continuous improvement approach.

Benefits of Using Lean

Achieves environmental results

Ensures better customer service.

Produces guality products and services.

Results

fows, Kanses, Missouri and Nebraskal are using Lean

to significantly improve water quality standard setting

and NPDES processes, achieving dramatic reductions.

Delaware Department of Natural Resources and En-

vironmental Control Methods (DNREC) used units

stream mapping to improve air permitting, by devel-

tracking boards, and implementing a "First in First

Out" system. As a result, DNREC has reduced their

permitting backing from use to to minor permits in

Ions Department of Natural Resources (A DNR) has

events. Results include decreasing lead timeson un-

from all months to a months and reducing the average

time to issue standard air construction permits from 6a

derground storage tank correction action decisions.

conducted over go Lean kalben rapid improvement.

three months, and to 25 in one year.

oping new permit applications, installing visual permit.

EPA's Other of Water, EPA Region 7 and 4 States

Reduces process complexity.

Enhances process speed.

Improves staff morale

in million stone.

Lean in Government

- Using Lean, environmental agencies have improved quality, cost effectiveness, service delivery and respondiveness to the public, without compromising environmental costaction.
- Lean is a collection of principles, methods, and tools that improve the speed and efficiency of any process by eliminating wate.
- Although Lean originated in manufacturing operations, the tools have been successfully applied in orgenization success all sectors, including the government.
- Lean methods are highly adaptable and could be used in a myriad of processes ranging from rulemaking to processing of grants and contracts.

How Lean Achieves Results

Lean techniques such as value steam mapping and kaiten rapid improvement events identify and eliminate unnecessary and non-value added process steps and activities that have built up over time. Lean efforts are not just about fixing broken processes. State agencies have found that these methods enable them to undentand how their processes work on the ground and to build a culture of continuous improvement.

By getting process activities and procedures to function smoothly and consistently, agencies free staff time to focus on higher value activities more directly linked to environmental protection. While successfully implementing Lean requires hard work and commitment, the results can be impressive.

For More Information: www.epa.gov/lean/leangovernment.htm www.ecos.org/section/projects/?id=2292

to 6 days.

on identifying sources of non-value added activity (waste) and prioritizing future improvement ac-

the time to

 Kakan Elwints – Kaken means "to charge for the pool of <u>of</u>." Kaken activity is often focused in rapid process improvement events (kaken event) that bring together a cross-functional team for -5 days to study a quecific process and immediately implement process charges.

Key Lean Tools

mapping refers to the activity of developing a high-level visual representation of the process.

flow involved in delivering a product or service (a "value dream") to customers. VSM events focus.

Value Stream Mapping (VSM) – Value cream

 Six Signa – Lean is often combined with Six Sigma, a process improvement methodology that uses statistical tools to improve quality, reduce defects, and eliminate variation.

What Lean is Not

- Lean is not about compromising environmental protection, incouring environmental regulations, or foregoing an agency is commitment to environmental protection. Lean seeks to correct inefficiencies in administrative processes and workflow, enhancing an agency's ability to protect the environment.
- Lean isnot about outting jobs. Lean retains the current staff, but may rearrange or assign new ducies to those staff. It is not a sets for job performance, rather it seeks to improve the entire agency's performance. Lean often improves staff monile, as employees have a hand indesigning work processes that enable success.
- Lean isotofjett another "Favor of the month." Lean methods have been proven effective many times over and in a multitude of seetings making it different from past management trends, such as TDM. Unlike past trends that focured on qualby only, lean addresset quality, cost and delivery. Lean's focus on rapid implementation brings real improvement and competing results fast, making momentum for further impovement.



Constitute Technological Periodice

Types of Administrative Waste

Waste	Example
invertory	Backlog of Work, Excess Materials/Information
Defects	Data Errors, Missing info
Overproduction	Unneeded Reports, Doing Work Not Requested
Complexity	Unnecessary Process Steps
Walting	Approval Cycles
Excess Motion	Trips to Remote Printer
Moving items	Report Routing

Lean in Government Tools



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> Reptonite 2008 EPA - Stat Prost CTO

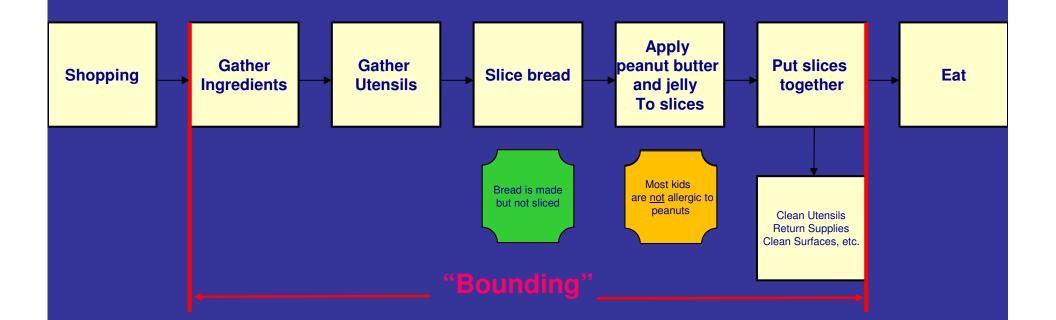
Get the RIGHT Lean Team!

Open Minded
Does the Process
Includes Customer
Strong Facilitator



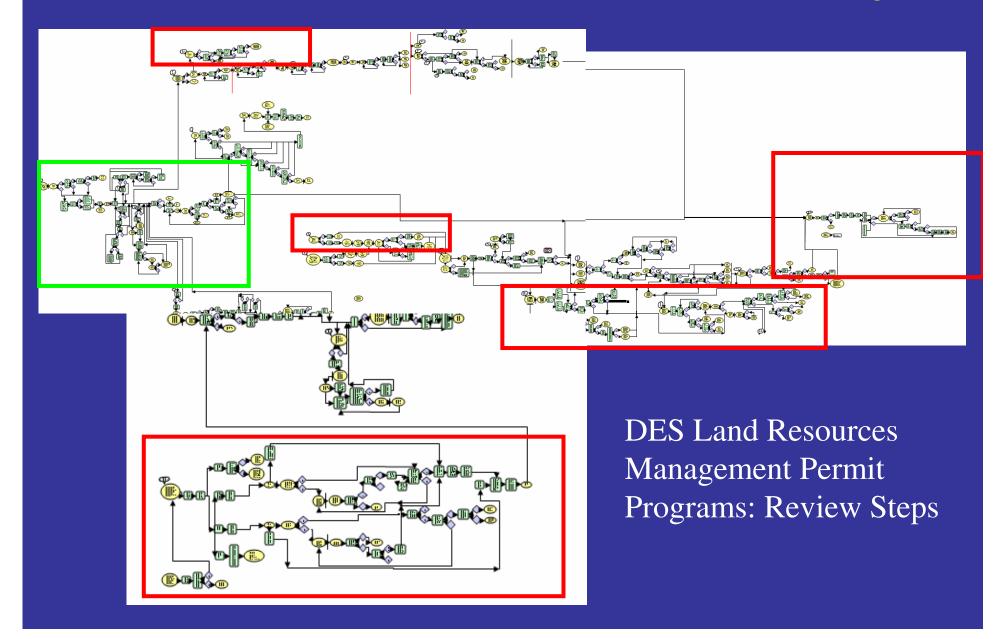


"Current State" Process Map



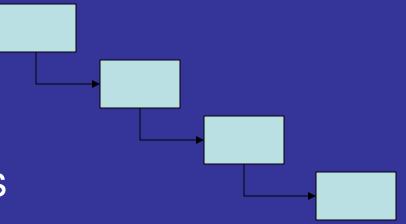
How to Build a Peanut Butter & Jelly Sandwich

Current Permit Processes Are Complex



Now that you can "See" Process - Analyze the Process for:

- The "C.Y.A. Factor"
- Complex flow paths
- Major delays / back-logs
- Batching
- Multiple hand-offs & re-work/repeat steps
- Extra motion



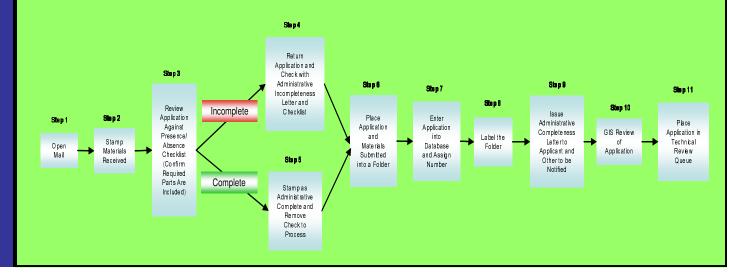


	Steps													
Process	1	2	з	4	8		,			10	11	12	13	14+
A. 8 kombad	Open fobler	Data stamp		File #, log in folde r			Ful administrative aview	Mini technicel review – plan and type	Ac knowledg- ment letter – confirms time and timeline					Into file cabinet quaua; sho max tachnical raview; permit; Gl:
8. Weihnen	Open, process check,put in folder	Date stamp, partial com plete- ness review & notes		Generate file #, la bel folde ç log in data base	Sometimes phone call to request additional matenials	GIS ne view	Extensive administrative review (packat& plans) per bercode sheet	Mini technical review – looksat plan, confirms type of application	incom plete orcom plete letter				Possible additional letterfor local con com hold if not eceived earlier, designated rivers notification	Delivered t appropriat stafftech queue – fil orto Peasi
C. Alte attice of Terrain	Open		Review for completeness & quality				Ad ministrative review for completeness		Kee p incomplete a pplications - phone call request for added information	Data stamp when complete	Loginto database & send notification letter	GIS log in & essess -ment	Design rivers notification	Delive y se me day
D. Sakauriece Sakau – Sopa 2. Saka	Open mail, sort applications	Data stamp	initial screen for town stamp if requied				Ad ministrative review for pesence, not qualky		Send incomplete applications back, including check, with letter		Log in & divide up to tech			Delivery, nextday AM

Application Receipt Center

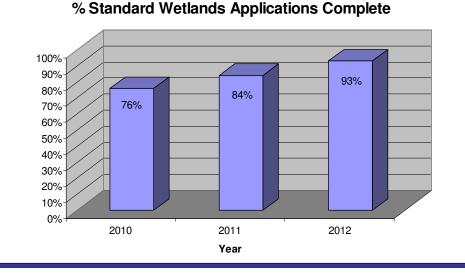
Combine, standardize, and simplify application intake procedures for four separate land development permit programs

Future State – A Single Process for All Programs



LRM Application Receipt Center - RESULTS

- Applications and Payments now Processed the SAME DAY Received
- Cross-Program Staff Coverage Prevents Delays
- 40% Reduction in Initial Review Processing Time
- Eliminated Duplicative Data Entry and Automated Steps
- 23% Increase in Wetlands Applications Submitted that are Initially Complete



Uses of Lean Approach & Tools

- Evaluate established process make it more efficient
 START SMALL!
- Define a standard process from many used

 Standardization of process
 more efficient & more accurate
- Design new process focus on goals!

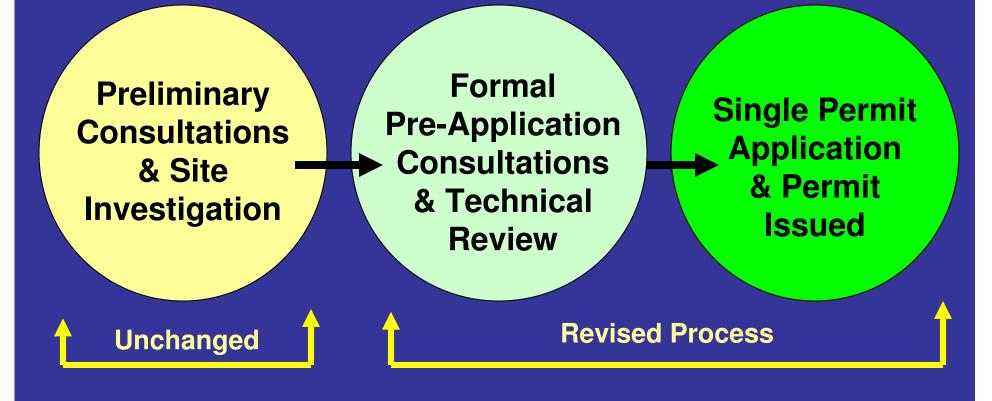
ALWAYS Communicate! Early, Often, "Bite-sized"



Integrated Land Development Permit (proposed)

- One Permit = Replaces up to 4 Individual Permits
- Streamlined, **Consistent** State Permitting Process
- Improved Coordination with other entities
- Enhanced Pre-Application Guidance
- Holistic Perspective in Regulating Land Development
- Less Impacting Land Development

Integrated Land Development Permit Process



Opportunity to Redesign Current Process

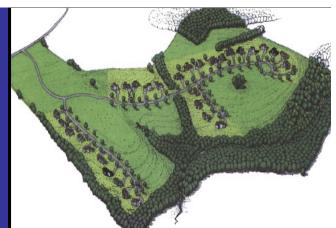
Integrated Land Development Permit

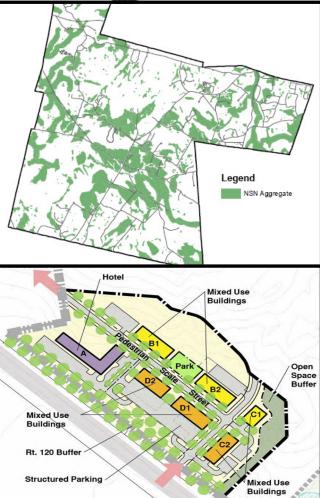
Pre-Application Steps:

Notification of & Consultation With Advisory Entities

Submit Preliminary Plans, Supporting Information & Part of Fee to DES

Pre-Application Technical Review Meeting with DES





Discuss Best Practices Beyond Regulatory Requirements

Energy Efficiency:

Water Use:

Reduced energy demand of structures

Lower water consumption by occupants

Stormwater:

Reduce generation through design, retain & treat rainwater onsite (mimic natural condition)

Location:

In- or near town/city, redevelopment, avoid highvalued natural resource areas



Integrated Land Development Permit

Final Permit Application:

Single Permit Application & Single Permit Issued

Simplifying Application Process & Requirements

> DES Review and Decision within 45 Days (most projects)

Option to Waive Current Technical Standards for Superior Environmental Outcome

Conclusions

 Lean Techniques are Valuable Tools for Improving Permit Work Processes

- View it as a continuous effort (incremental change)

- Lean your business process BEFORE developing your IT solution
- Start SMALL & include RIGHT team members
- Communicate, communicate & communicate some more!