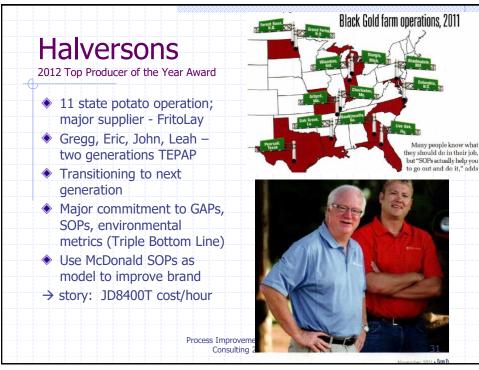
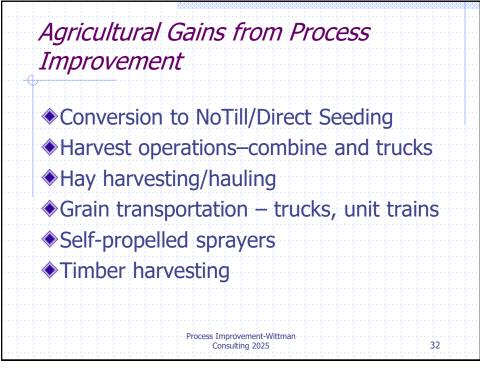
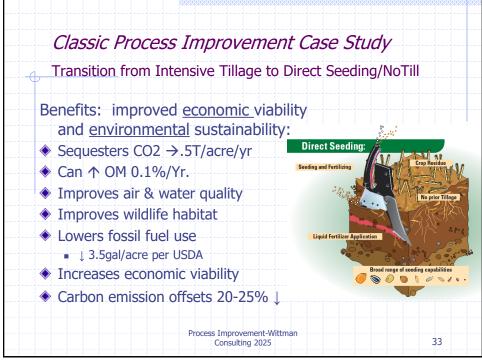




		Average annual growth in: Labor productivity	Capital investment	
1948-73	Postwar economic boom	3.3%	3.9%	
1974-95	Great productivity slowdown	1.5	3.8	
1996-2002	Technology-led resurgence	3.3	5.1	
2003-07	Pre-recession deceleration	2.2	2.9	
2008-16*	Great Recession and aftermath	1.3	1.7	
By The New Ye	, mic Policy Institute analysis of data compi	activity am	d capital	BA

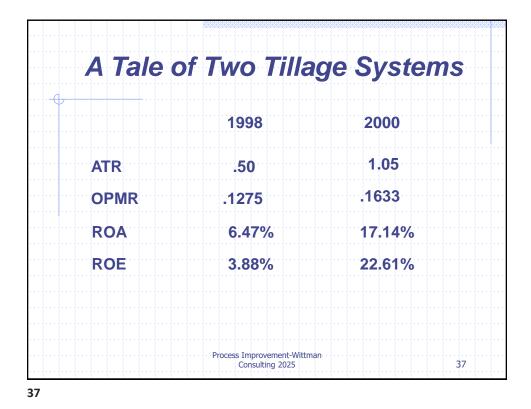


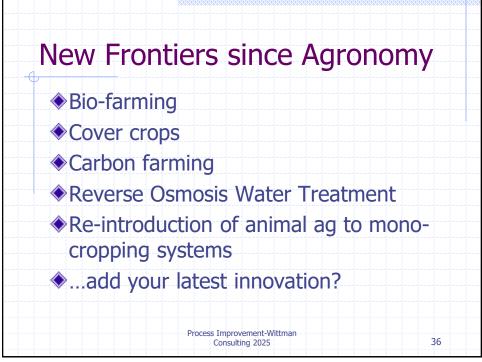


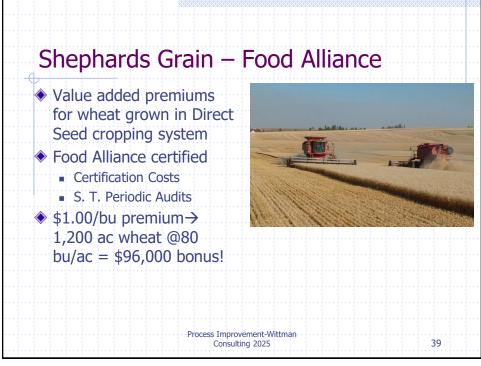


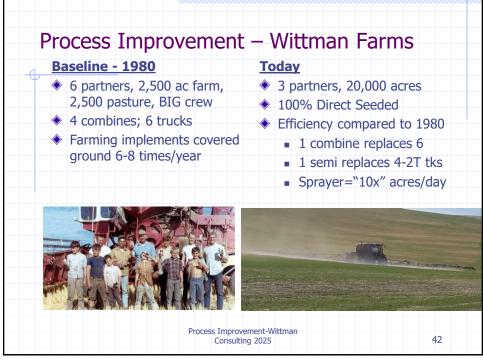
Operation	<u>Cost/Acre</u>
Fall Plow	\$15.00
Spring Harrow	4.00
Spring Cultivate	6.00
Cultivate/Spray Incorporate	6.00
2nd Incorporation-Cultivator	6.00
Seed-Conventional Drill	15.00
Harrow	4.00
Roller/Packer	<u>4.00</u>
Total Costs Per Acre	\$60.00
Recreational farming at its	best!!!

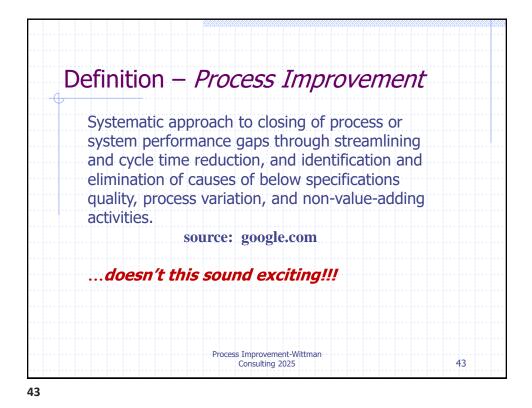
saves 3 steps & \$25/acre	
<u>Operation</u>	Cost/Acre
Fall Heavy Harrow	\$4.00
Fall Roundup-Green Bridge	7.00
Custom Hire-Direct Seed Drill	17.00
Harrow	3.00
Roller/Packer	<u>3.00</u>
Total Costs Per Acre	\$35.50
Qualitative Benefits: less wa	ter loss,
less compaction, less erosion	risk

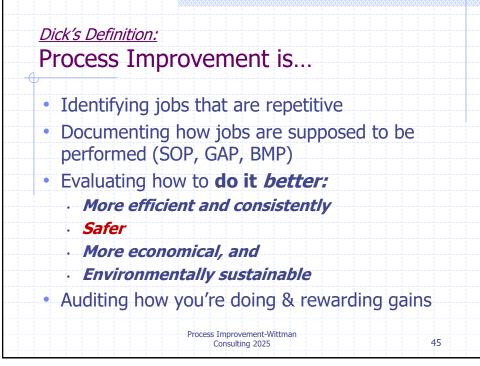




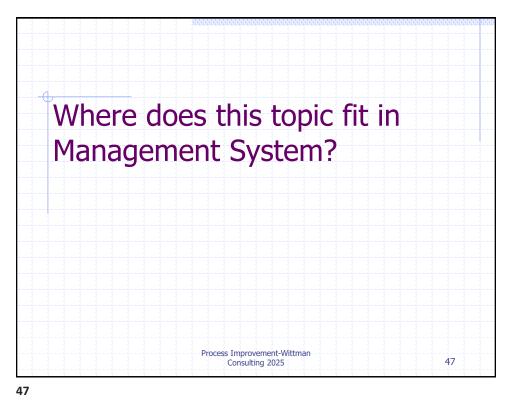


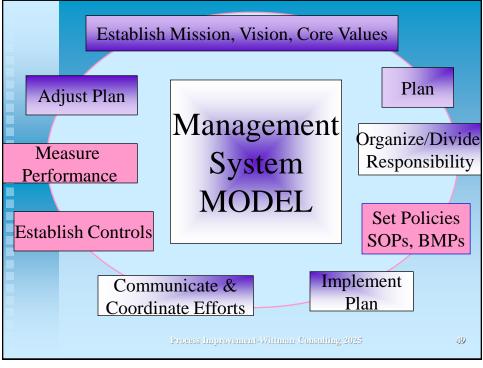


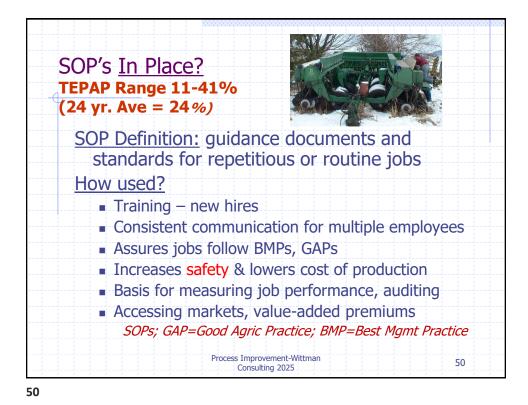




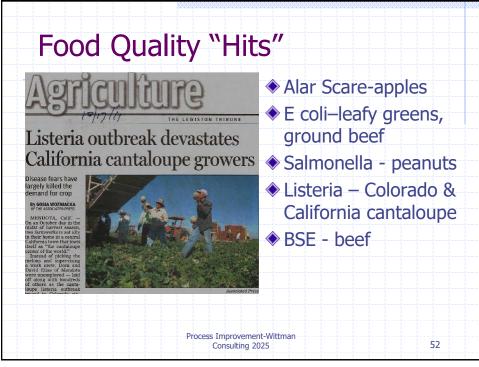


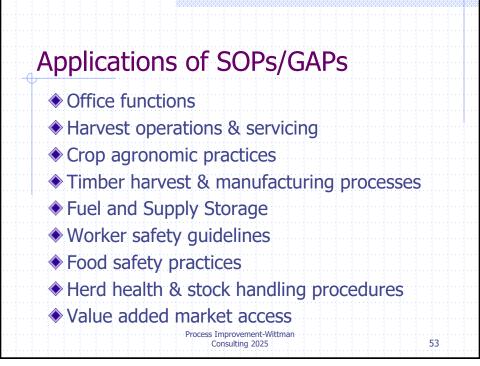


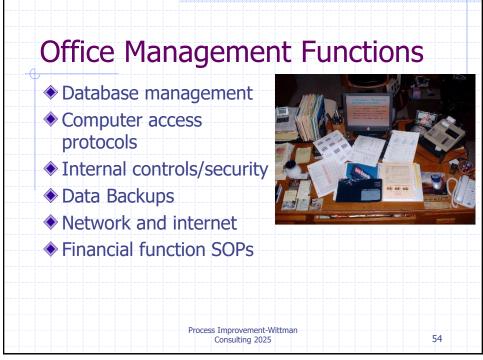


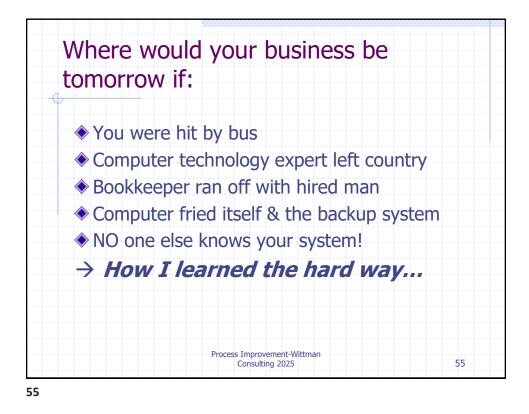


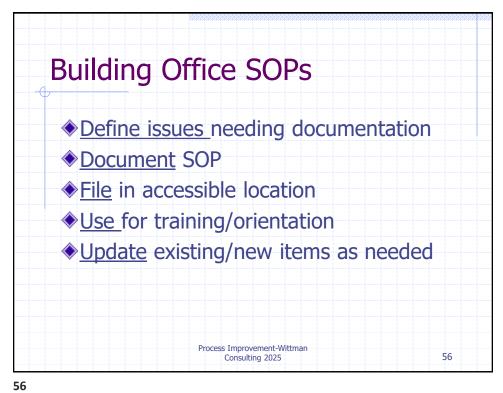


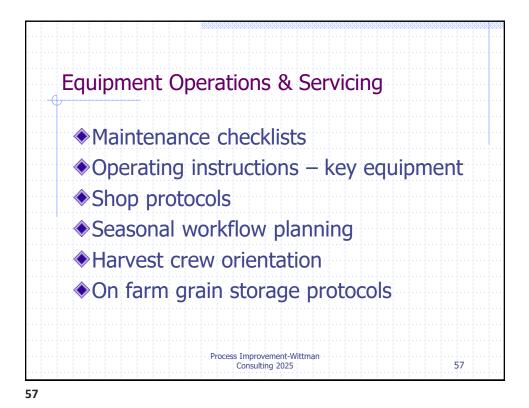


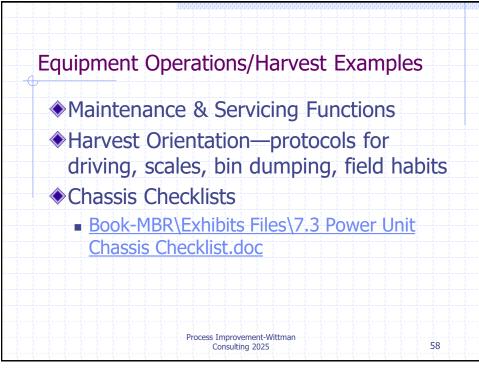


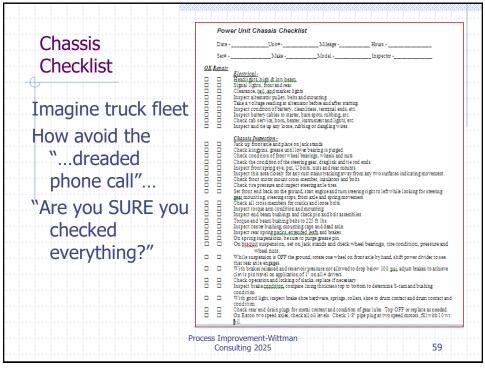




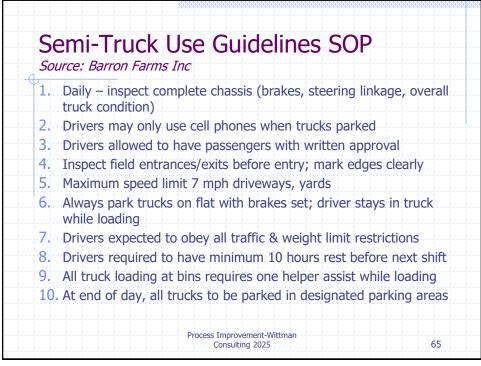




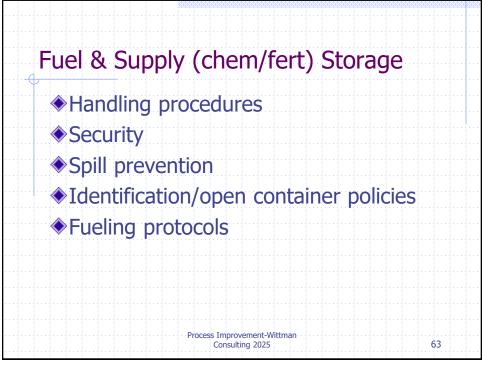


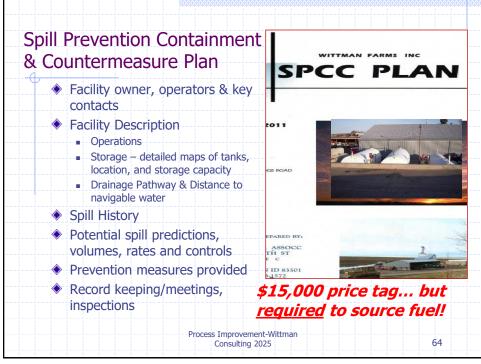




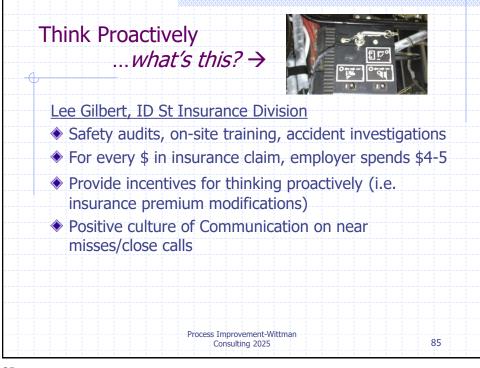




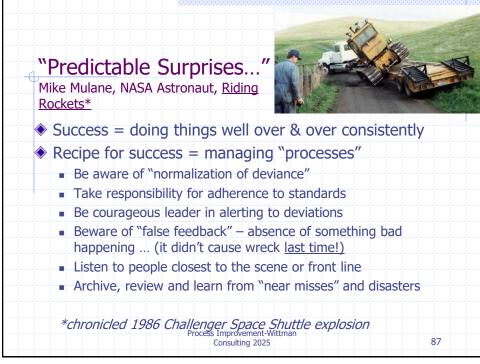


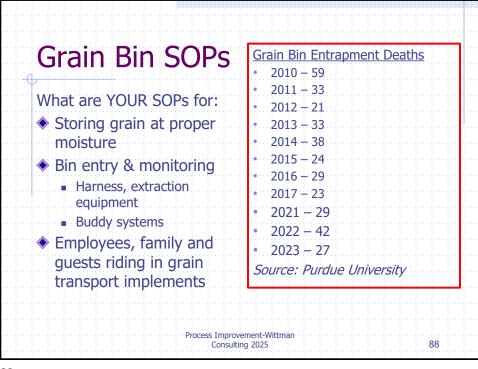


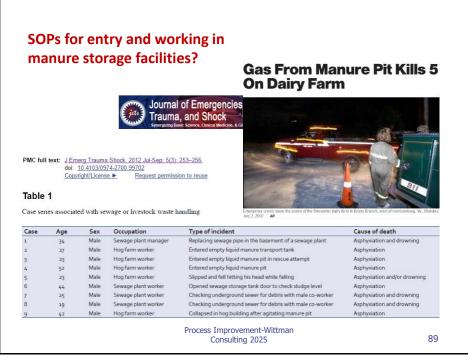


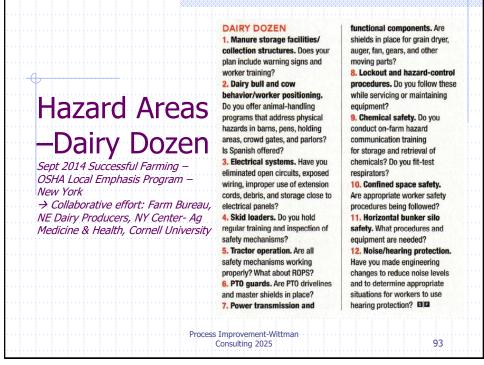














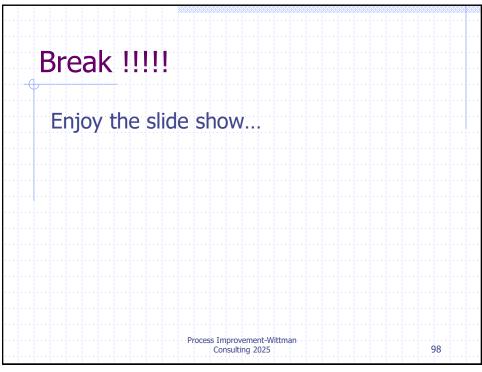
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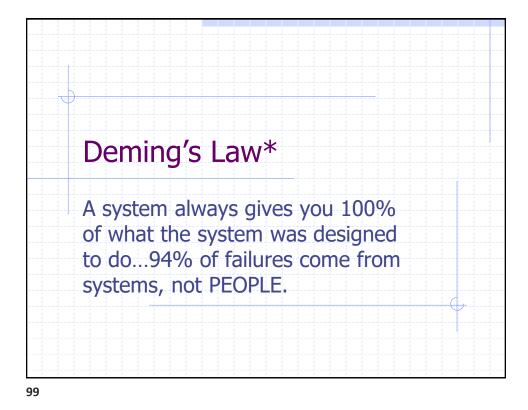


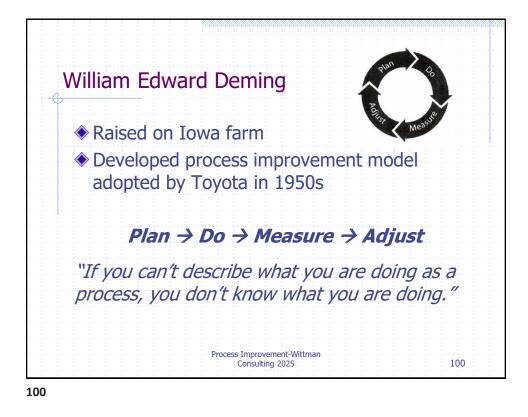


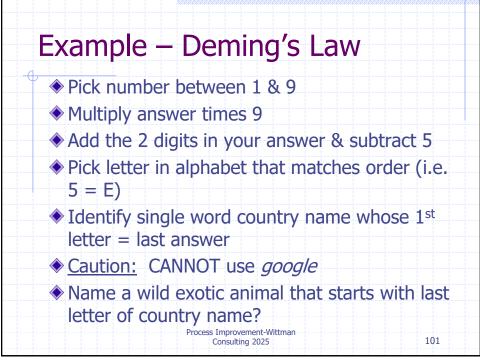


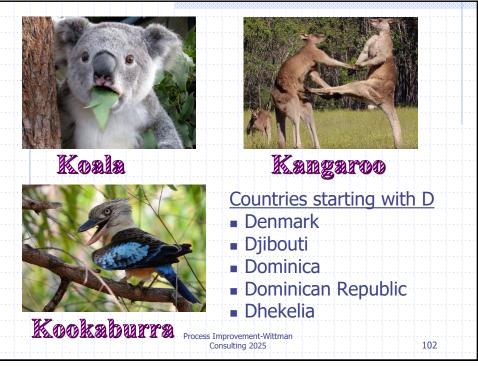


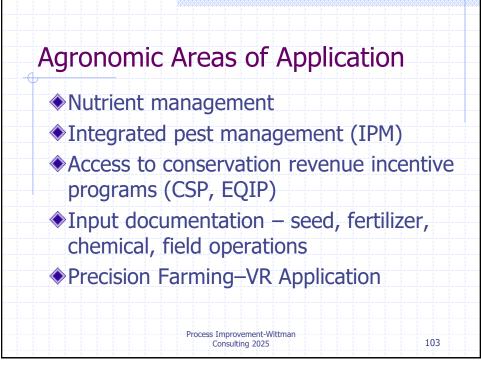


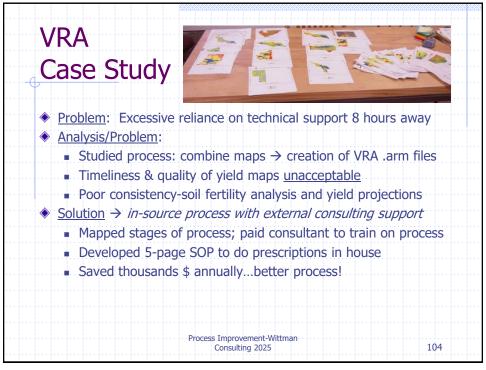


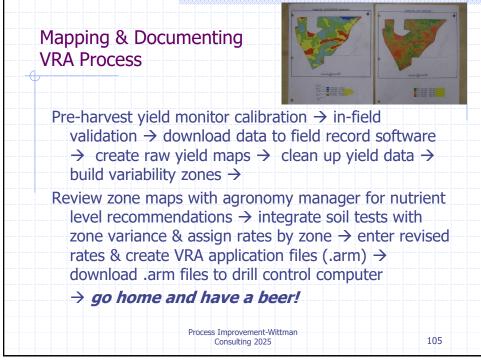


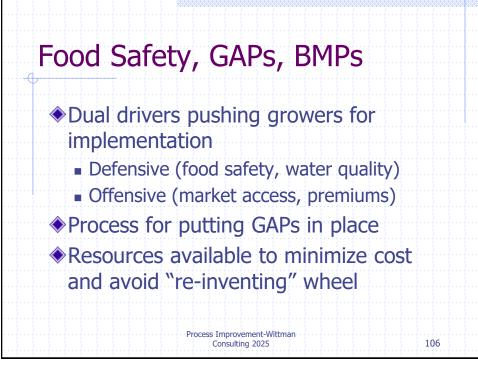




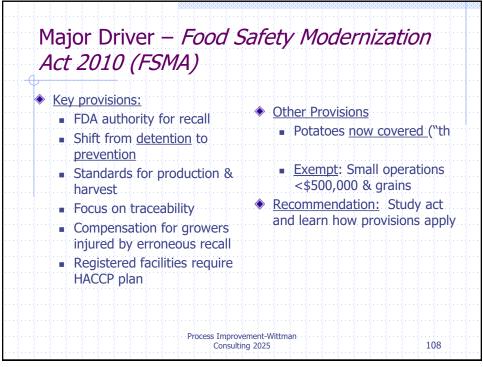






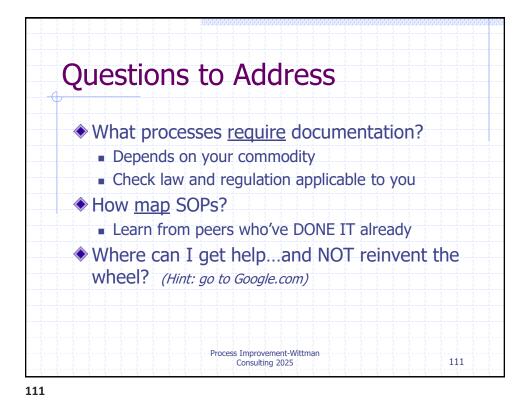


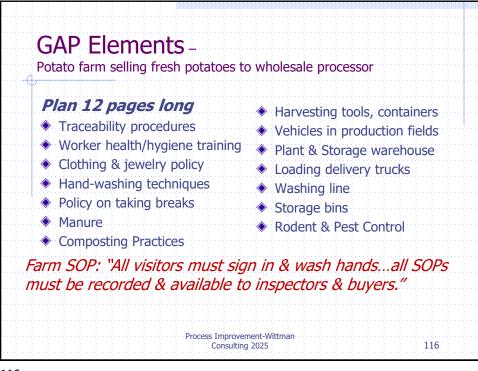


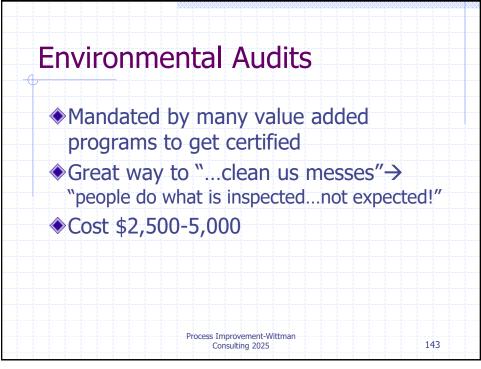






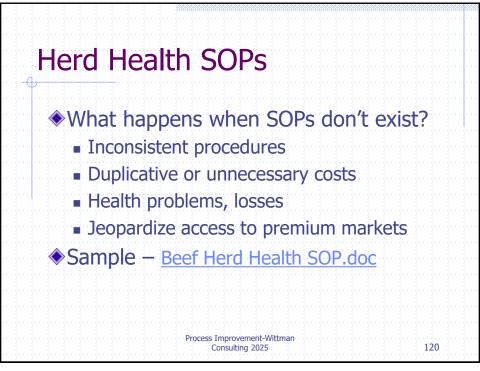




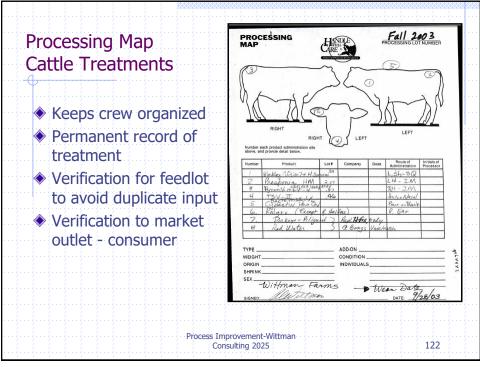


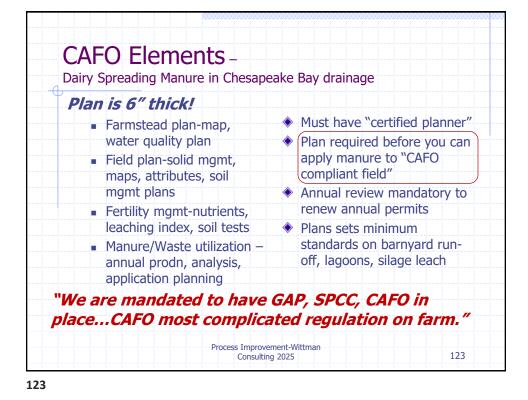


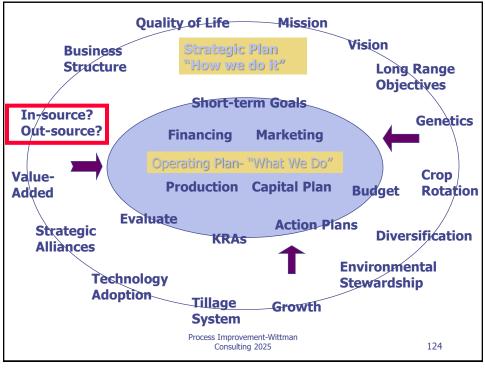


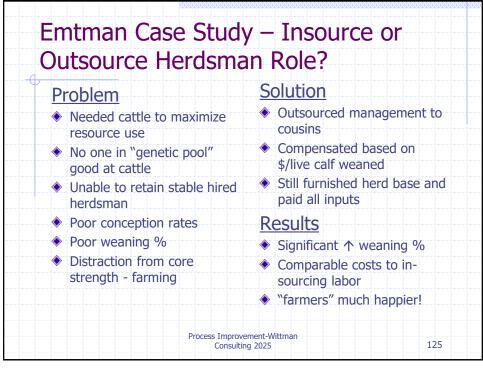


Wittman Farms Beef Herd Health Protocol Revised 11/30/11					
Date	Action	Purpose/Detail	Products		
	Cows				
January	Ck Identification tags – Pre Calving	All ear tags should match shoulder brands			
April	Pre-Breeding Visual	Ck eyes, teeth, feet, legs, udders			
	Bulls				
Late January	Breeding Soundness Examination	Check eyes, teeth, feet and legs, semen test			
	Leptospirosis	Prevent abortions	StayBred VL5		
	Redwater/Blackleg	Prevents spore-forming bacteria	Vision 8+Somnus		
	Pinkeye	Prevent eye redness & inflammation	Piliguard		
	Vibriosis and/or Trichomoniasis	Prevent infertility & abortions	Vibrin		
	IBR, BVD, PI3, BRSV virus vaccines	Prevent shipping fever	CattleMaster Gold		
	External parasite control	lice and grub control in fall, fly control in summer	Cydectin (summer) Dectomax (fall)		
January - April	Calving (calves @ birth)				
	Identify	Ear tag should match mother's			
	Disinfect navel	Prevent naval disease/ill	H20 & Bedadine solution		
	Castrate (band) bull calves		Bands		
	Vitamin A & D injection		Vedco A&D		



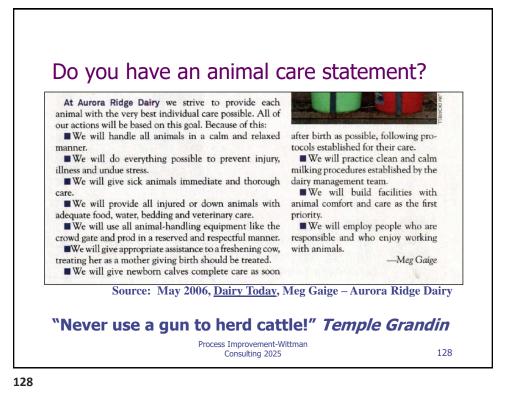




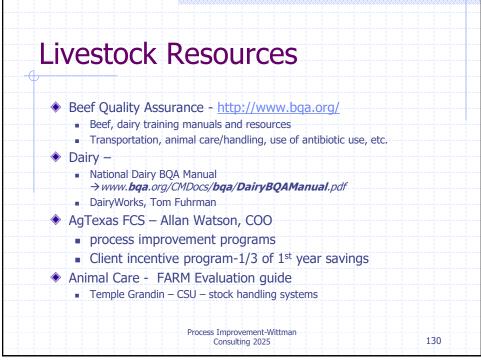


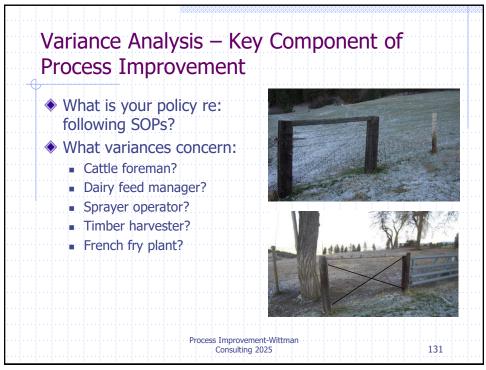


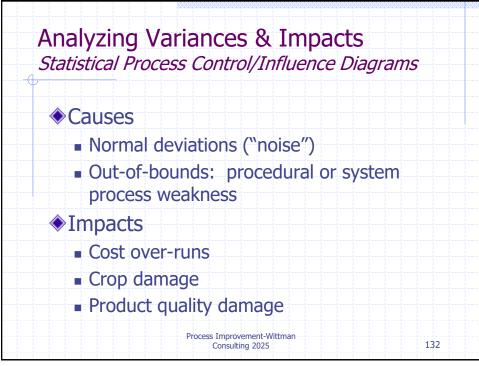


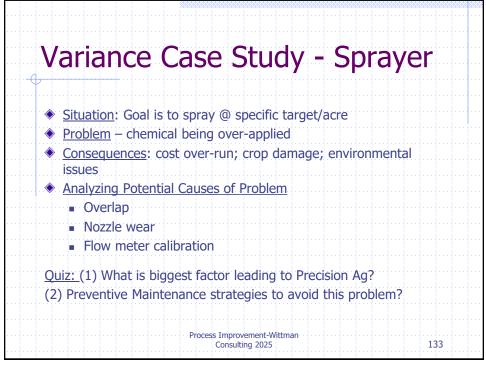


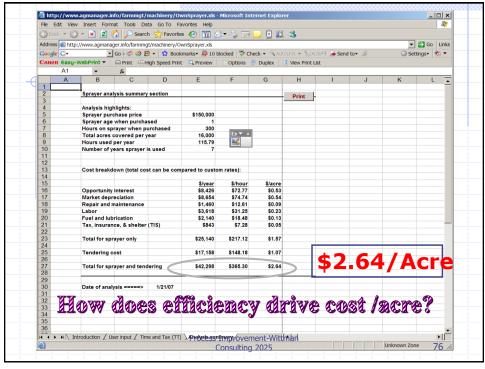




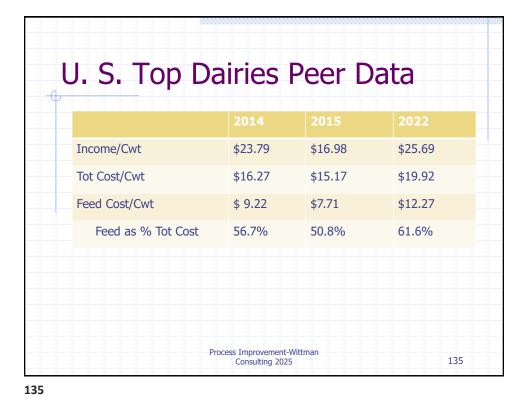


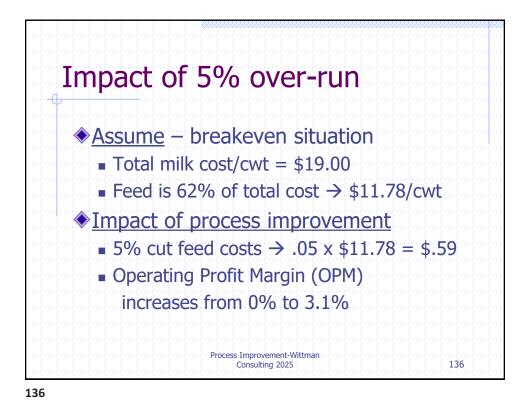


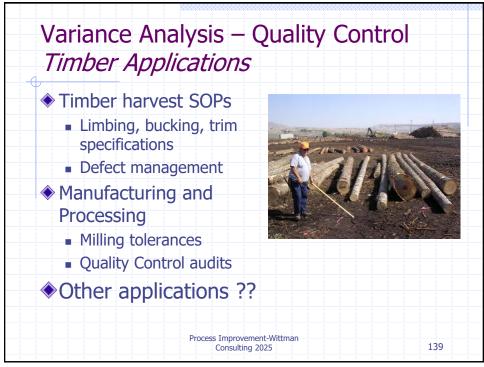


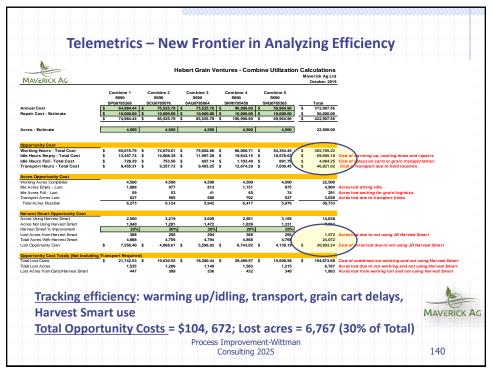


	Sprayer analysis summary sectio	n			Print		
					- min		
	Analysis highlights:						
	Sprayer purchase price	\$360,000					
d	Sprayer age when purchased	0					
Ψ	Hours on sprayer when purchase						
	Total acres covered per year	20,000					
	Hours used per year	229					
· · · · · · · · · · · · · · · · · · ·	Number of years sprayer is used	10					
	Cost breakdown (total cost can be	o compared to custom	ratoc):				
	Cost Dreakdown (total Cost can be	e compareu to custon	rrates).				
		\$/year	\$/hour	\$/acre			
	Opportunity interest	\$8,952	\$39.06	\$0.45			
	Market depreciation	\$15,619	\$68.16	\$0.78			
	Repair and maintenance	\$9,059	\$39.53	\$0.45			
	Labor	\$7,161	\$31.25	\$0.36			
	Fuel and lubrication	\$5,672	\$24.75	\$0.28			
	Tax, insurance, & shelter (TIS)	\$1,679	\$7.32	\$0.08			
	Total for sprayer only	\$48,142	\$210.08	\$2.41			
	Tendering cost	\$29,729	\$129.73	\$1.49			
						-	
	Total for sprayer and tendering	\$77,872	\$339.80	\$3.89	47%	\mathcal{A}	
	Date of analysis ====> 2/19	16,000)ac 🔶	\$4.03/ac			
		ess Impro 25,000		\$2 02/0			

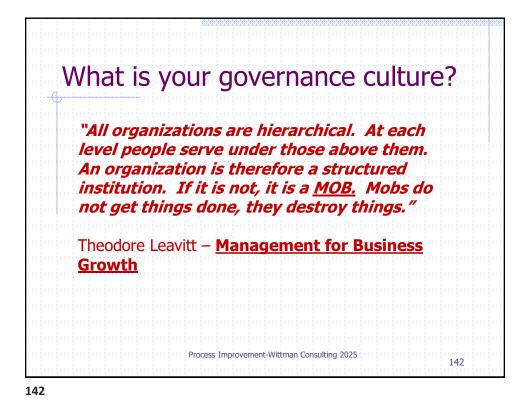


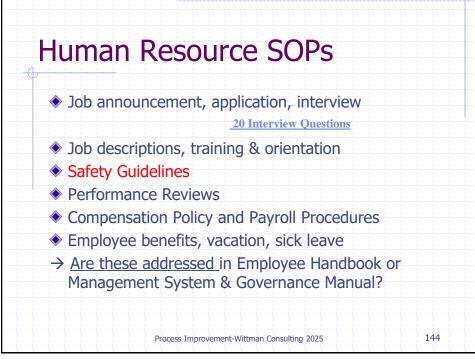


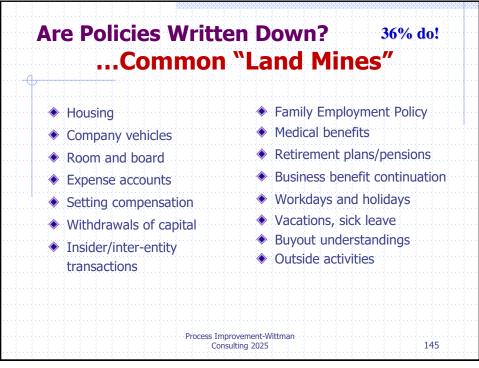


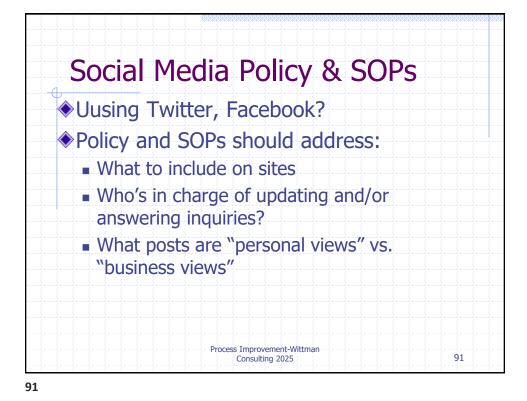


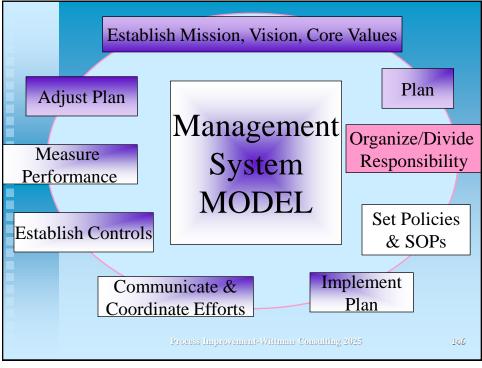


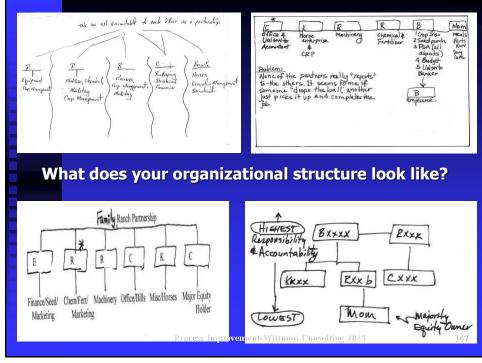


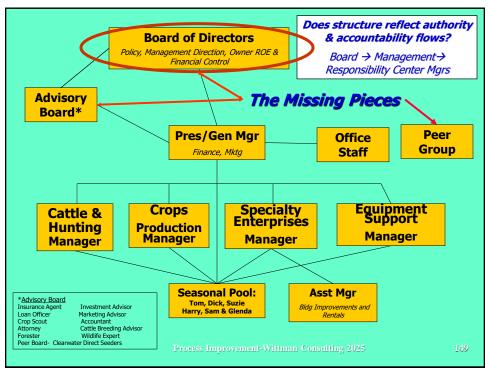


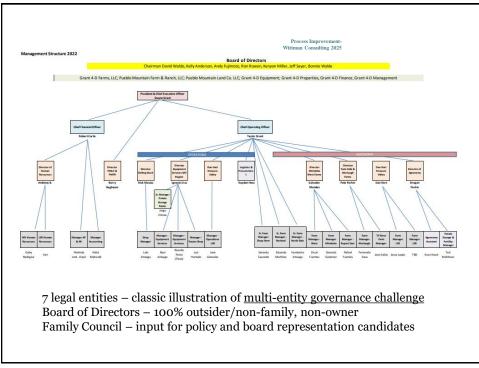






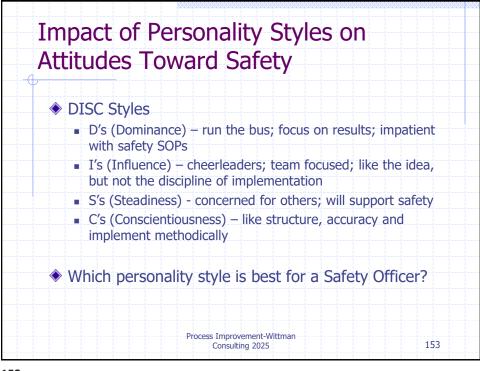


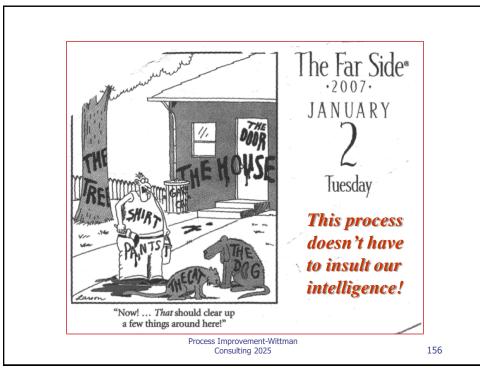


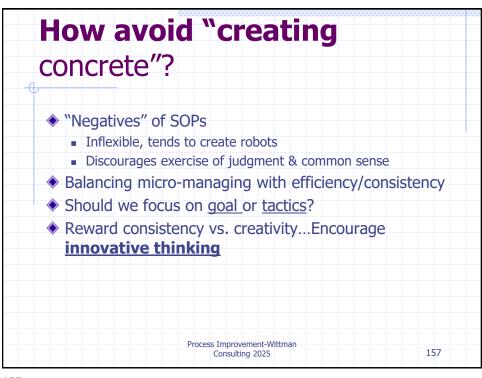


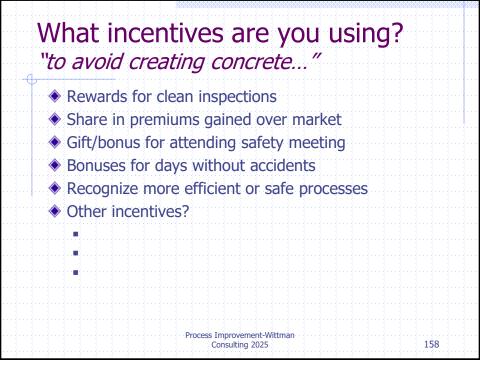
 Sample Job Description – Precision Ag & Safety Manager
 Precision Ag & Agronomy Responsibilities – 7 duty areas
 Administrative/Field Staff Support – 4 duty areas
 Shop Operations & Safety Responsibilities Primary backup to Service Manager in planning, coordination and direction of shop operations Assist Equipment Support Manager and other shop personnel in maintaining equipment Develop and maintain maintenance logs for service scheduling and safety compliance Oversee farm safety program: establish SOPs, stock safety supplies, monitor compliance and ensure training and consistent implementation throughout workforce Oversee environmental compliance and waste disposition Monitor fuel and lube inventories, and coordinate restocking Prepare quarterly fuel and road tax return Audit and stock shop supply inventory to perform maintenance and repair activities Oversee winterization of equipment and headquarters facilities
 Process Improvement-Wittman Consulting 2025 152

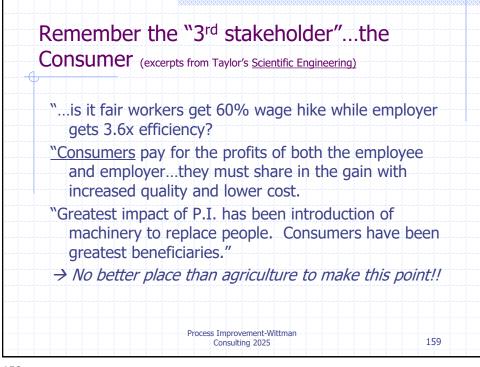














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