

CONSERVATION DELIVERY STREAMLINING INITIATIVE (CDSI)



BACKGROUND

- National NRCS initiative began in January 2009
- A five year initiative to help address:
 - Lack of time in the field
 - Cumbersome IT tools
 - Lack of integration of IT tools
 - Potential loss of technical expertise
- Three overarching objectives



OBJECTIVES

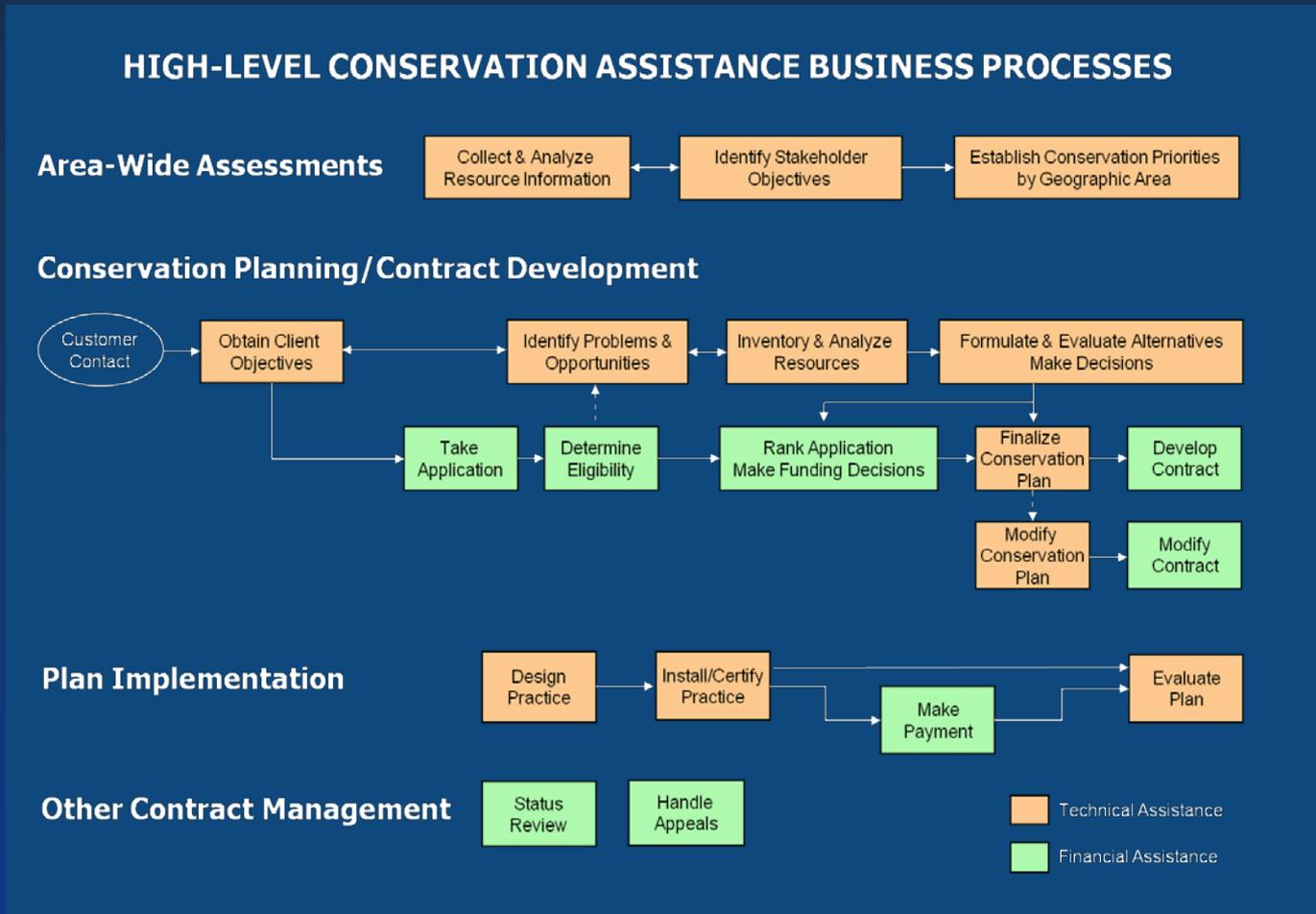
- In early 2009, NRCS initiated an Agency-wide effort to define and implement a sustainable business model for delivering conservation assistance that will:
 1. Simplify Conservation Delivery – Easier for customers and employees.
 2. Streamline Business Processes – Increased efficiency and integrated across business lines.
 3. Ensure Science-based Assistance - Continued delivery of technically-sound products and services.

OBJECTIVES (continued)

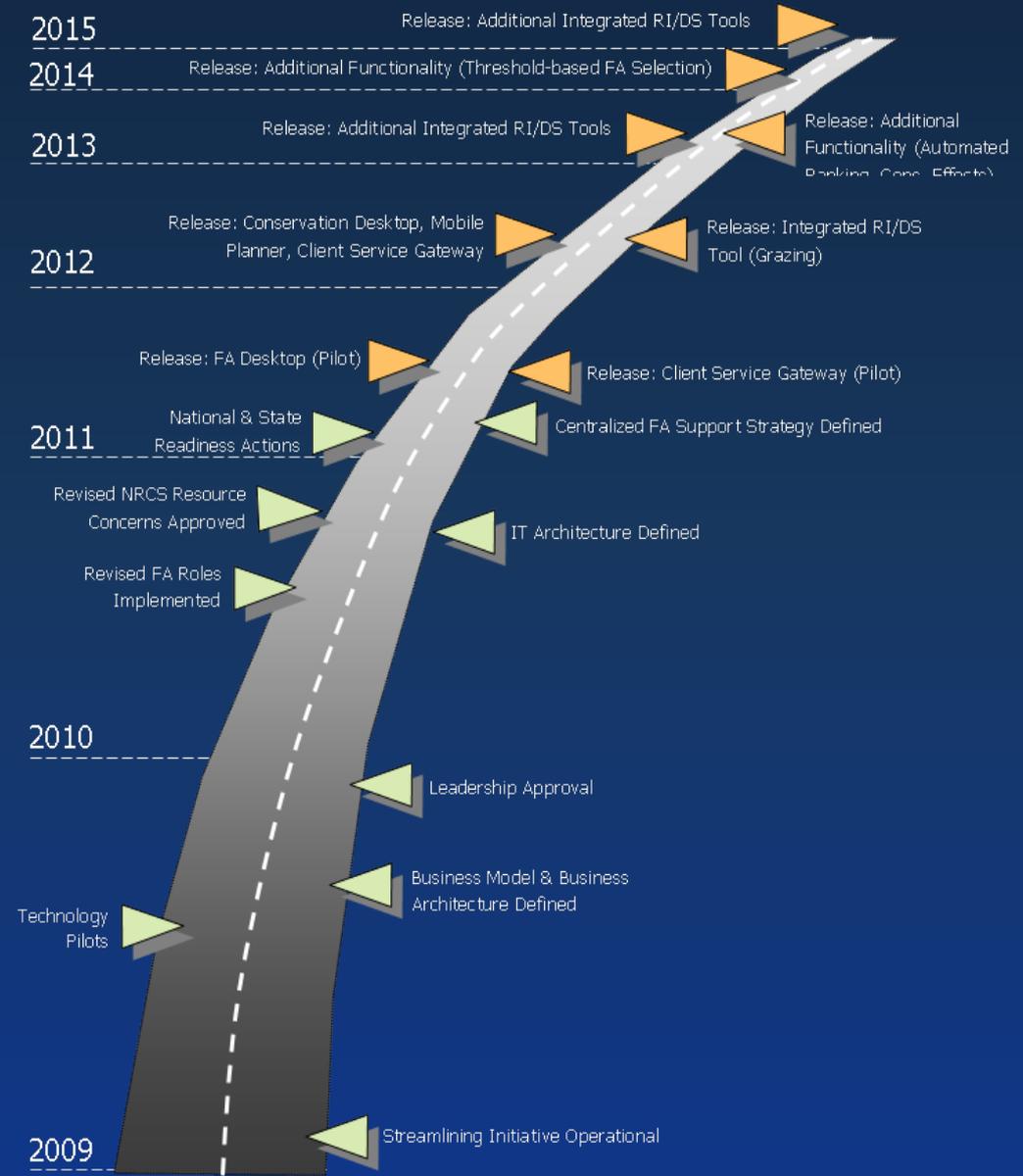
● Examples of success criteria:

- ✓ Field staff will spend as much as 75% of their time in the field.
- ✓ Clearly defined business processes used in decision-making.
- ✓ Over 80% of FA clerical time eliminated, automated, or reassigned.
- ✓ Tools guide employees through conservation assistance steps.
- ✓ Tools and data are accessible to staff when and where needed.
- ✓ The “admin” time from application to funding is 2 weeks or less.
- ✓ Resource concerns document all TA service and FA obligations.
- ✓ FA business processes are standardized nationwide.

Define, streamline, and integrate formalized conservation assistance processes across Agency business lines.



STREAMLINING INITIATIVE ROADMAP



Louisiana CDSI Activities

Assist
National
Initiative

- Provide review and comments of technical requirements for CDSI national team

Focus on
Technical
Delivery

- Concentrated on top 25 conservation practices applied over past three years
- Provide consistency in products for clients
- Develop tools for simplified practice design

Louisiana CDSI Activities

Process

- Update Conservation Practice Standard
- Develop Statement of Work
- Develop Practice Specifications
- Develop consistent Practice Job Sheet
- Develop practice planning/design tool
- Integrate into one package

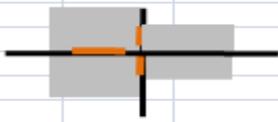
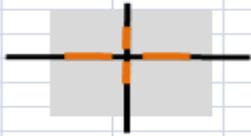
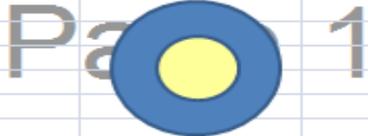
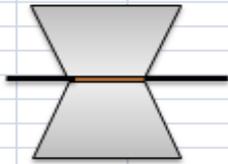


Louisiana CDSI Example – Heavy Use Area

INFORMATION SHEET HEAVY USE AREA PROTECTION			
SWCD:	Rapides		
Field Office:	Alexandria		
Cooperator Name:	Joe Farmer		
Location in Parish:	71 south		
Program:	EQIP	Contract No.:	747217110NJ
Computations By:	NRCS Employee	Date:	2/23/2011
Checked By:	NRCS Employee	Date:	10/2/2010
Approved By:	NRCS Employee	Date:	10/3/2010
Surface material	aggregate		
If Aggregate - Type	limestone		
Heavy Use Area No.	3		
Location:	Field 3		
Reason for Use	gate opening		
type of traffic	livestock only		
Soil Name			
Classification	NW		FW may require a 404 permit. Landowner should check with Corp
Overall Practice Purpose:	Farmer would like to apply HUA in order to prevent the development of a mud hole which could adversely effect animal health and water quality.		
			denotes a drop down menu
	AGGREGATE	CONCRETE	ASPHALT

Louisiana CDSI Example – Heavy Use Area

PICK WHICH TYPE OF AGGREGATE HUAP YOU WANT:

		<input type="button" value="RETURN"/>
SINGLE GATE OPENING	DOUBLE GATE OPENING	<input type="checkbox"/>
		
THREE GATE OPENING	FOUR GATE OPENING	
		
TROUGH, Square/rectangle	Trough, Round	
		
TROUGH NEXT TO FENCE	GATE OPENING with FLARE	
		
GATE OPENING with OVAL HUA		

Louisiana CDSI Example – Heavy Use Area

(561) Heavy Use Area Protection for Stone

The Cooperator has determined that the material used
Stone using 8 inches of Stone with Geotextile

RETURN
EXPORT

Kind of animal: **cattle**

Total number of this exact type of HUA: **2** Thickness = **8** in.

Note: These quantities are based on neat lines and drawings of given dimensions. Additional rock quantities will need to be considered to compensate for irregularities in subgrade, pre-compaction allowances, and waste. Additional geotextile amount may also need to be considered to compensate for overlaps and waste.

Instructions:

Top Surface =	676	sq ft	Perimeter =	104	ft
Geotextile Amt =	83	sq yds (includes 10% for laps and turn downs)			
Rock Amount =	17	cu yds		25.3	tons

Depth of muckout	6 Inches	Depth of muckout	0.5 Feet
Fill above Normal Ground	6 Inches	Fill above Normal Ground	0.5 Feet

Fill Material Around Heavy Use Area Treatment Quantities

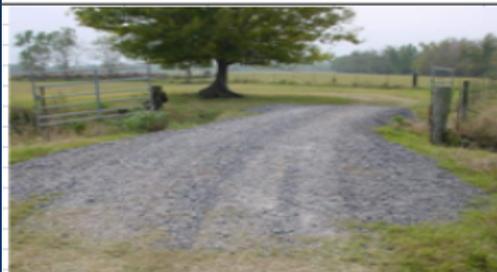
Fill Material slopes around Pad	2.9	yd ³		
Fill Material under Pad	25.0	yd ³	Total Fill Material	27.9 yd ³

Louisiana CDSI Example – Heavy Use Area

Instructions:	<i>Top Surface =</i> 676 <i>sq ft</i>	<i>Perimeter =</i> 104 <i>ft</i>
	<i>Geotextile Amt =</i> 83 <i>sq yds (includes 10% for laps and turn downs)</i>	
	<i>Block Amount =</i> 17 <i>eq. yds.</i>	25.3 <i>tons</i>
Depth of muckout	6 Inches	Depth of muckout 0.5 Feet
Fill above Normal Ground	6 Inches	Fill above Normal Ground 0.5 Feet
Fill Material Around Heavy Use Area Treatment Quantities		
Fill Material slopes around Pad	2.9 yd³	
Fill Material under Pad	25.0 yd³	Total Fill Material 27.9 yd³
<p> Aggregate trough square Job_sheet_stone_trough Specifications LA-ENG-54 S-6-52 SP-HUA-1S </p>		

Once the design inputs are complete, the export command will produce a file that contains the completed job sheet, specification, applicable drawings and other documents for practice installation

Louisiana CDSI Example – Heavy Use Area

		<h3>Heavy Use Area Protection</h3>	
Natural Resources Conservation Service		Conservation Practice Jobsheet	
		561	
Natural Resources Conservation Service (NRCS)		October 2011	
Landowner: Joe Farmer		Field Office: Alexandria	
Assisted by: NRCS Employee		Date: 2/23/2011	
Contract Number: 747217110NJ			
Overall Practice Purpose:			
Farmer would like to apply HUA in order to prevent the development of a mud hole which could adversely effect animal health and water quality.			
			
Definition Reestablishment of areas frequently and intensively used by people, animals or vehicles by establishing vegetative cover, surfacing with suitable material, and/or installing needed structures.			
Purpose To provide a stable, non-eroding surface for areas frequently used by animals, people or vehicles. To protect and improve water quality.			
Where Used This practice applies to agricultural, urban, recreational and other frequently and/or intensively used areas requiring treatment to address one or more resource concerns.			
Conservation Management Systems Heavy Use Area Protection is used in typically used in conjunction with Critical Area Planting, Nutrient Management, Waste Utilization.			
Operation and Maintenance Inspect the heavy use area annually and after heavy storms to identify repair and maintenance needs.			
		<ul style="list-style-type: none"> • The area immediately down slope from the heavy use area will be maintained in vegetation. • All associated fence and filter strips will be maintained to promote vegetative growth and filter runoff from the heavy use area. • When vegetation is denuded, it will be re-established in the early spring. • Periodically scrape manure and waste feed to remove undesirable accumulation of manure and trapped liquid. Take care in the scraping operation to minimize the removal of surface aggregate. • Remove manure and waste feed during times when application equipment can traverse field and when actively grazing crops can utilize the nutrients. • Should you have to stack the manure and waste feed, the area must have good drainage away from the stack. The stack should be protected from the weather, livestock and runoff. Vegetation must be established and maintained around the storage area to filter any runoff. • Replacement of rack will be needed occasionally. Replace weathered or otherwise displaced rack to the grade of the original design. • Eradicate or otherwise remove all rodents or burrowing animals. Repair any damage caused by burrowing animal activity. 	

Louisiana CDSI Example – Heavy Use Area

	Type of surface	aggregate	Re-arm for use:	stone paving
Typical drawing needed	SP-HUA-1		Thickness of stone	8 in.
	Type of aggregate	limestone		
Total number of this exact type of HUA		2	Total list of materials needed	
List of materials needed per HUA			Earthfill	55.9 yd ³
Earthfill	27.9	yd ³	Aggregate	34 yd ³
Aggregate	17	yd ³		51 ton
	25	ton		
Geotextile	83	s.y.	Geotextile	165 s.y.

HOW TO INSTALL

1. Make sure you have complied with LA One Call requirements and have a ticket number before beginning. Call 811 or 1-800-272-3020.
2. Make sure that the area intended for the Heavy Use Area still has the stakes identifying the extent of the work.
3. Remove all mud and water from the work area down to firm earth. See the specifications under clearing and grubbing for further information.
4. Use good earthfill soil to build the sub-base up to the level which is shown on the drawing provided, if necessary. See the specifications under subgrade for further information.
5. Depending on the thickness of aggregate and the type of aggregate used, you may be required to lay geotextile over the area. Make sure that you overlap the edges of the cloth at least 18". It is recommended that you pin the cloth down to help keep it in place during placement of the stone. See the specifications under geotextile for further information.
6. When placing the stone, the layer must be compacted. Make two passes over the entire surface with a tractor before placing another layer. Continue this process until you reach the thickness called for in your contract. See specifications under aggregate treatment for more information.

Notes:

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Louisiana CDSI Activities

Practices
Completed

- Heavy Use Area Protection (516)
- Nutrient Management (590)
- Integrated Pest Management (595)
- Residue and Tillage Management, No-till/Strip-till/Direct Seed (329)
- Residue Management, Seasonal (344)
- Residue and Tillage Management, Mulch Till (345)
- Residue and Tillage Management, Ridge Till (346)
- Waste Treatment (629)

Louisiana CDSI Activities

Practices Currently in Development

- Fence (382)
- Grade Stabilization Structure (410)
- Irrigation Water Conveyance (430)
- Irrigation Water Management (449)
- Pipeline (516)
- Tree and Shrub Establishment (612)
- Watering Facility (614)



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