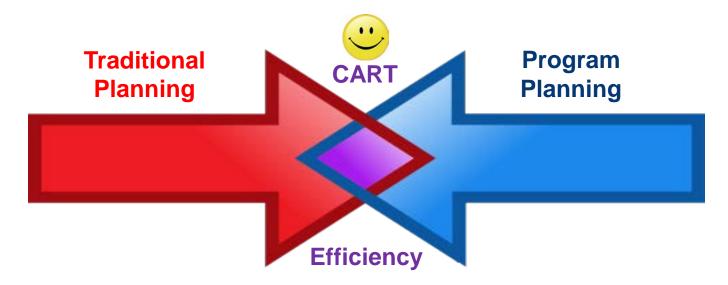




## **Conservation Application Ranking Tool (CART):**

CART will **merge** Traditional Conservation Planning with Current Program Delivery Creating a **Streamlined Approach** and more **Customer Friendly** Experience





# Streamlined TA and FA Delivery













## What this is supposed to do:

- Efficiently provide more data and information to planners and clients
- Simplify the application process for both TA and FA
- Simplify the planning process (TA) especially for less "intensive" practices
- Streamline the contracting process (FA)

## What this is NOT supposed to do:

- Eliminate the need for expertise and best professional judgement (decision SUPPORT not decision MAKING)
- Eliminate the need for field visits and face-to-face conversations
- Eliminate the need for site-specific assessments especially for high risk and high cost activities

Natural Resources Conservation



## Conservation **Planning**

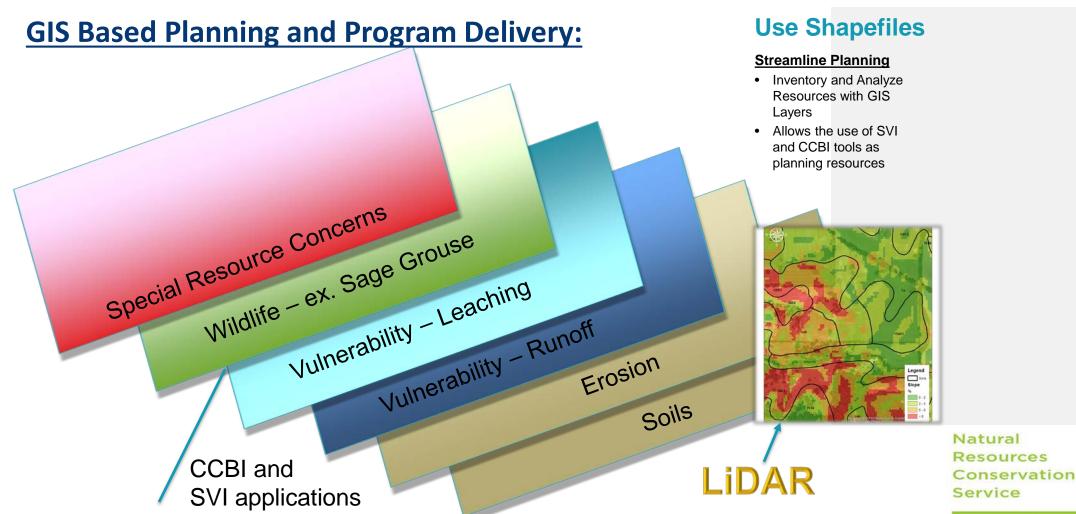
# Alternative – Streamlined TA and FA Delivery











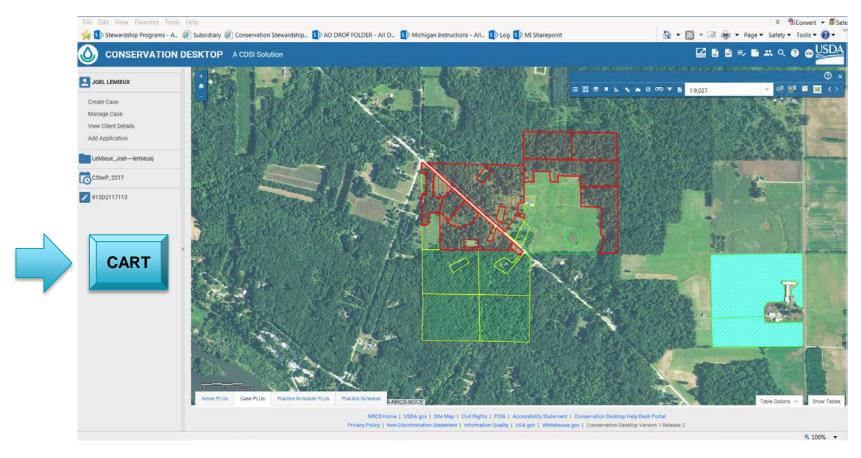








## **Step-3 - Resource Inventory:**



Pressing button passes client & shapefile. Any attribution data which is helpful





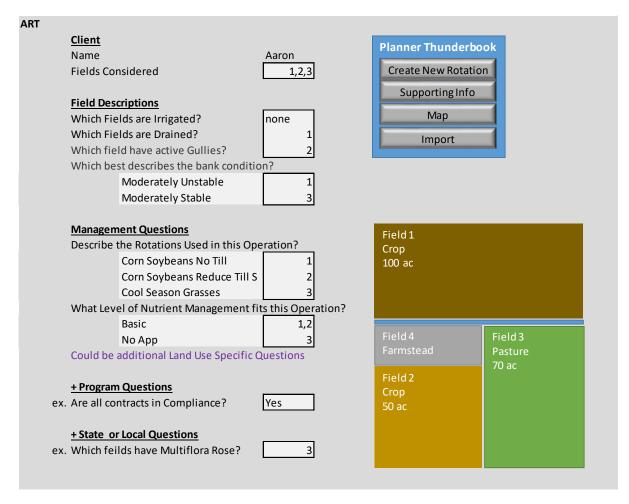








## **Step-4 – Analyze Resources:**



#### **Basic Questions**

#### **Streamline Planning**

- GIS Layers Provide Most Data Input
- Established Benchmark Condition
- Improves Consistency as resource data is static
- · Represents a Change in how Resource Concerns are defined
  - Model Based
  - GIS and Risk Based

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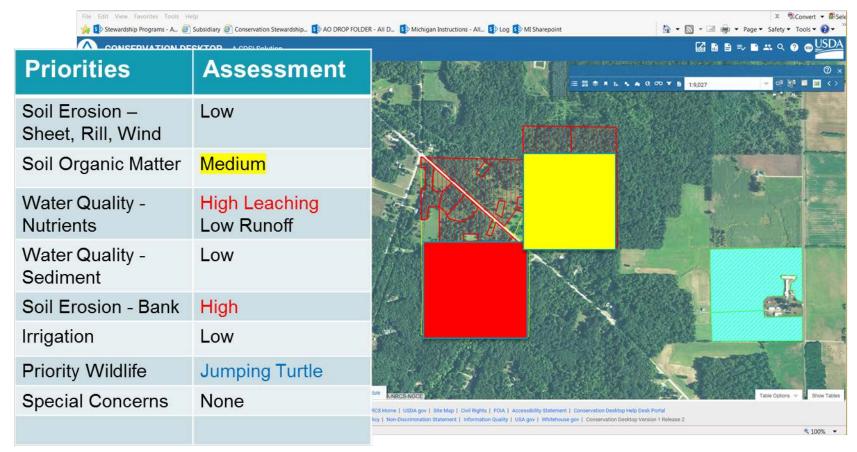








#### **Step-4 – Analyze Resources:**













## **Step-5 – Formulate Alternatives**

**Practices that** improve **Water Quality**  Nutrient Application Rate - Precision Application

Nutrient Management (590)

Residue and Tillage Management, No-Till (329)

Residue and Tillage Management, Reduced Tillage (345) 🗸

Riparian Forest Buffer (391)

Riparian Herbaceous Cover (390)

Sediment Basin (350)









#### **How will CART Work? - Step-6 – Evaluate Alternatives**



Note: Changing practices immediately updates <u>effects</u> bars to compare various alternatives













#### **Step-7 – Make Decision:**

- ⇒ User Friendly Plan
- ⇒ Future to include economics
- **Conservation Plans from:**
- State, local govt
- **SWCD**
- Federal Agency
- Third-Party (TSP)
- assesses rangeland or cropland
- can be incorporated into a comprehensive planning document (conservation plan) for program enrollment

#### **Ranking Sheet CART** Client Planne Aaron Name Aaron Application ID Con Plan 1 Date: 5/8/118 Land Units 1,2,3 **Priority Evaluation** Water Quality Water Conservation Air Quality Soil Quality Wildlife Habitat Plant and Animal Communities Energy Conservation ■ Benchmark ■ Planned Practices Eligible Funding Pools and Programs Score Indiana General Funding Pool 534 National Water Quality Initiative 658 Hamilton Co. CD 477 Little Brown Bat SWLFW 1005 Resource Concerns Met Benchmarl Planned Soil Quality Yes Plant and Animal Communities Yes Yes **Energey Conservation** Yes **Conservation Practices** Residue and Tillage Management, No-Till (329) Windbreak/ Shelterbelt Establishment (380) Filter Strip (393) 20 ft min width

Nutrient Application Form - Slow or Time Release Nitrogen Fertilizers

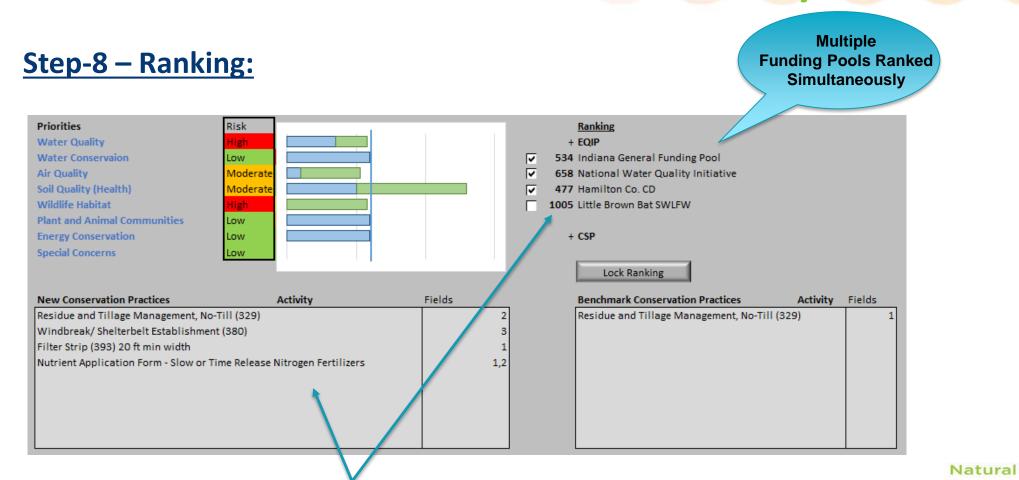


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Note: Changing practices immediately updates <u>ranking</u> and effects bars to compare various alternatives. This can be done for multiple applications (one application) and fund pools at one time



Conservation

Resources











## <u>Step-8 – Ranking (Locally-Led Conservation):</u>

Locally Weighted Pool

Ranking Sheet	303d Watershed		All Funding Pools that apply Final				
				Indiana	National		Little
		New	Special	General Funding	Water Quality	Hamilton	Brown Bat
Priorities	Risk		Considerations		Initiative		SWLFW
Water Quality	10	60	20	113	0	90	0
Water Conservaion	50	0	0	0	0	0	0
Air Quality	10	7.5	0	22	0	53	0
Soil Quality (Health)	0	55	0	69	220	55	0
Wildlife Habitat	25	17.75	0	53	257	128	0
Plant and Animal Communit	40	0	0	0	0	0	0
Energy Conservatin	0	0	0	0	0	0	0
Special Concerns	60	30	0	113	0	0	900
			Total	449	565	399	950
			Efficiency Score	_ 80	88	73	50
	Program & Preference Question			5	5	5	5
			Final Score	534	658	477	1005

Weighted Resource Score

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**Efficiency Score Varies** by Practices Eligible in the Ranking Pool

Veteran Preference



# **Streamlined Planning and Program Delivery**









### **Step-8 – Ranking:**

- Straightforward Conservation Practices
  - Conservation practices that are priority for Local Work Group, State Technical Committee, and are green-lighted for SHPO and T&E purposes. Can be planned from the office.
- Mid-Complex Conservation Practices
  - Conservation practices requiring a field visit. Nutrient Management for soil sample, Grassed Waterway to verify elevations, Irrigation Sprinkler System for coefficient of uniformity, Range Management for plant identification, etc.
- Complex Conservation Practices
  - These require in-field survey, detailed hydrology and hydraulic analysis, geological investigations, additional on-site investigations (e.g. Waste Storage, etc.)

# Efficient Planning and Program Delivery

#### Cropland

- · Soil Erosion Residue Mgt,
- Soil Quality Cover Crop
- Plant Degradation Seasonal High Tunnel

#### <u>Pasture</u>

- Water Quality Fencing Cattle out of Stream and Providing Alternative Water Source
- Plant Degradation Incorporating Legumes, NWSG, or cover crops on 30% of grazing acres

#### **Forest**

Plant Degradation – recent Forest Management Plan













#### **Refocus Science Investments**

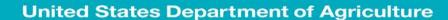
#### **Step 8 - Practice Standards and Step-9 - Evaluation:**



#### **Evaluation**

#### **Technical-Science Based Conservation**

- NRCS continue to lead in Practice Standards and Payment Schedule
- · Additional resources to evaluate the impact of conservation practices
- Helps the agency better define "outcomes" of conservation practice installation
- · Precedent set with Edge of Field Monitoring, Habitat Monitoring, Pollinator Monitoring, etc.





# **Summary**

Mandate to Streamline

Focus on Customer Service

**Program Neutral** 

Improving Science-Based Approach

**Implementation Strategy** 



