

# NASIS / NRIS Integration

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# INTEGRATION

- The act or process or an instance of integrating: as
  - *a* : incorporation as equals into society or an organization of individuals of different groups (as races)
  - *b* : coordination of mental processes into a normal effective personality or with the individual's environment

# ***INTEGRATE***

- **1: to form, coordinate, or blend into a functioning or unified whole : unite**
- **2: to find the integral of (as a function or equation)**
- **3a : to unite with something else**
- **b : to incorporate into a larger unit**
- **4a : to end the segregation of and bring into equal membership in society or an organization**

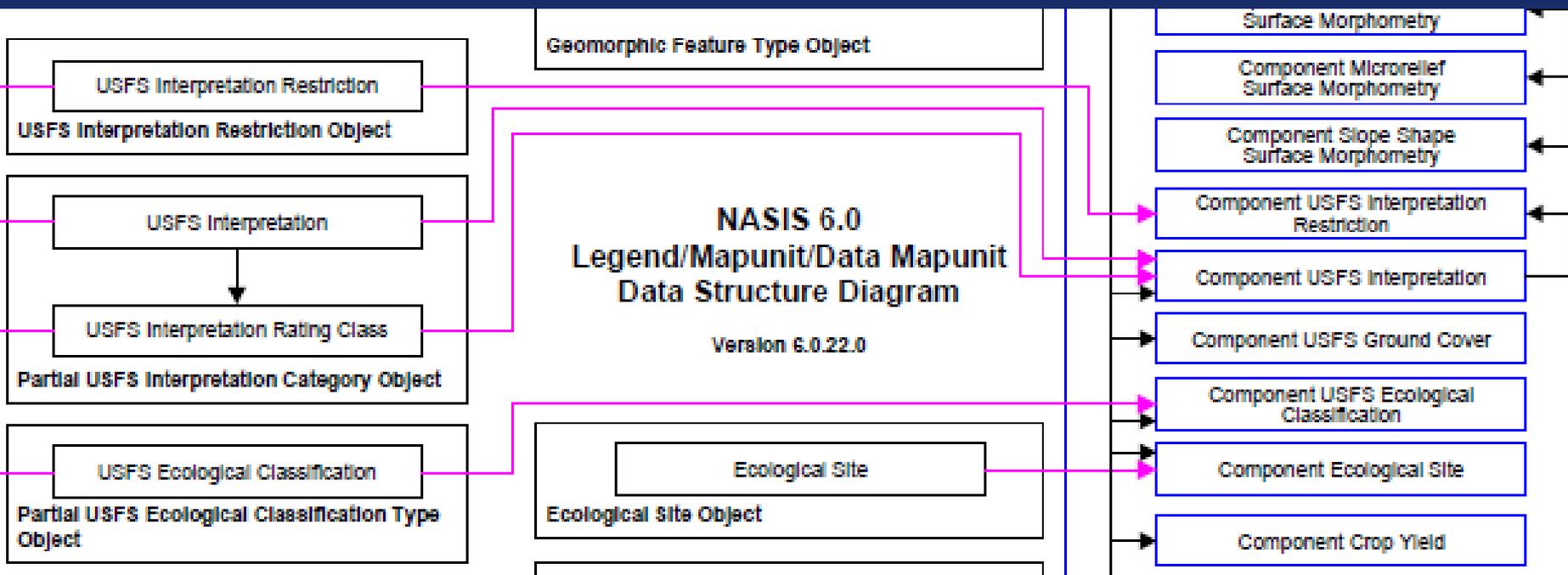
# Objective

- USFS to avoid duplication and hosting data from other agencies
- Import map unit data currently in NRIS-Terra into the NASIS database
- Run FS data through the interpretation generator
- Correlate, SSURGO certify, & post data to SDM/WSS

# Progress

- Following a series of inter-agency meetings, NRCS included a number of new data elements and tables in the NASIS 6.0 data structure to hold USFS developed map unit data.

# Partial Entity Diagram



# Progress

- Using Santa Fe National Forest data as test
- NRCS provided an empty MS Access database with 6.0 data structure to USFS to unload data from Terra into

# Progress

- Martin Ferwerda, USFS, loaded Santa Fe NF soil survey data into Access database
- NRCS personnel in Ft Collins have written data import routine to move data into NASIS database

# Progress

- Santa Fe NF data has been imported into NASIS database
- Data being validated to ensure correct data is imported into correct tables and columns

T Legend						
Area						
Area Type Name	Area Symbol	Area Name	Area Acres	MLRA Office		
National Forest System Land	R03F10	Santa Fe National Forest	1734800	lakewood, co		
<div style="display: flex; justify-content: space-between;"> <span>Legend Mapunit</span> <span>Legend Area Overlap</span> <span>Legend Certification History</span> <span>Legend Export Certification History</span> <span>Legend Text</span> </div>						
Mapunit						
Seq	Mapunit Symbol	Total Acres	National Mapunit Symbol	Mapunit Name	Mapunit Sta	
52	2	2844		Aquic Ustifluvents c-l mixed mesic D L - Typic ...	provisional	
95	3	3286		Typic Haploborolls D CB L - Pachic Haploboroll...	provisional	
132	4	2635		Riverwash - Aquic Ustifluvents s-sk mixed me...	provisional	
135	5	10548		Pachic Argiborolls fne mixed D CL - Cumulic H...	provisional	
156	6	10131		Riverwash - Mollic Udifluvents s-sk mixed non...	provisional	
195	7	2216		Aquic Cryoborolls f-l mixed D ST L - Histic Cry...	provisional	
207	8	16060		Cumulic Haplaquolls f-l mixed D L - Pachic Udi...	provisional	
208	9	1832		Pachic Paleborolls fne mixed D BY L - Typic Pa...	provisional	
1	10	1328		Riverwash - Aquic Cryoborolls l-sk mixed D S...	provisional	
8	11	684		Aquic Ustifluvents s-sk mixed mesic D LS - Aq...	provisional	
16	12	858		Crylic Paleborolls cl-sk mixed D BY L - Crylic Pa...	provisional	
21	13	2417		Aquic Ustifluvents sandy mixed frigid D SL - F...	provisional	
28	14	1534		Typic Ustifluvents c-l mixed frigid D SCL - Flu...	provisional	
41	17	17845		Typic Ustifluvents c-l mixed mesic D SL - Verti...	provisional	
53	20	1695		Aridic Haplustalfs f-l mixed mesic D SL - Aridic...	provisional	
68	23	1287		Vertic Haplustalfs fne mont. mesic D SICL - T...	provisional	
81	27	1392		Fluventic Ustochrepts f-l mixed calc. mesic D ...	provisional	
96	30	9004		Aquic Ustifluvents fne mixed frigid D SCL - Fl...	provisional	
98	31	1456		Riverwash - Typic Ustifluvents c-l mixed mesic...	provisional	
99	32	3195		Fluventic Ustochrepts f-l mixed mesic D FSL - ...	provisional	
104	33	871		Cumulic Cryaquolls D L - Typic Cryaquolls fne...	provisional	
112	34	1276		Typic Argialbolls fne mixed D L - Typic Argial...	provisional	
118	35	1298		Riverwash - Typic Ustifluvents s-sk mixed mes...	provisional	

Legend							
Mapunit							
Data Mapunit							
							Linear Feature
	Mapunit Name	Kind	Status	National Mapunit Symbol	Low	RV	
+	Andic Dystrichrepts a-sk frigid D CBV SL - An...	consociation	provisional				
+	Andic Dystrichrepts ashy frigid SL - Eutric Glo...	consociation	provisional				
+	Andic Dystrichrepts medial-sk frigid D CBV SL ...	consociation	provisional				
+	Andic Dystrichrepts medial-sk frigid MD CB SL...	consociation	provisional				
+	Andic Dystrichrepts medial-sk frigid SL - Andi...	complex	provisional				
+	Andic Dystrichrepts medial-sk frigid STV SL - ...	complex	provisional				
+	Aquic Cryoborolls D ST L - Cumulic Cryaquolls...	association	provisional				
+	Aquic Cryoborolls f-l mixed D ST L - Histic Cry...	complex	provisional				
+	Aquic Cryoborolls l-sk mixed D L - Cumulic Cr...	association	provisional				
+	Aquic Ustifluvents c-l mixed mesic D L - Typic ...	consociation	provisional				
+	Aquic Ustifluvents fne mixed frigid D SCL - Fl...	complex	provisional				
+	Aquic Ustifluvents frigid D S - Typic Ustiflue...	consociation	provisional				
+	Aquic Ustifluvents s-sk mixed mesic D LS - Aq...	association	provisional				
+	Aquic Ustifluvents sandy mixed frigid D SL - F...	association	provisional				
+	Argic Cryoborolls l-sk mixed D GR L - Pachic C...	consociation	provisional				
+	Argic Pachic Cryoborolls cl-sk mixed D CB L - ...	association	provisional				
+	Argic Pachic Cryoborolls cl-sk mixed D GR L - ...	consociation	provisional				
+	Argic Pachic Cryoborolls l-sk mixed D GR L - A...	consociation	provisional				
+	Aridic Haplustalfs f-l mixed mesic D SL - Aridic...	consociation	provisional				
▶	Cryic Paleborolls cl-sk mixed D BY L - Cryic Pa...	consociation	provisional				
+	Cumulic Cryaquolls D L - Typic Cryaquolls fne...	complex	provisional				
+	Cumulic Haplaquolls f-l mixed D L - Pachic Udi...	association	provisional				
+	Cumulic Haploborolls D L - Pachic Argiborolls ...	consociation	provisional				
+	Dystric Cryochrepts l-sk mixed D CBV SL - Dy...	consociation	provisional				
+	Dystric Cryochrepts l-sk mixed D CBV SL - Ro...	consociation	provisional				

Legend   Mapunit   <b>Data Mapunit</b>																																																							
DMU Description			HEL (obsolete)			HEL Water (obsolete)		HEL Wind (obsolete)																																															
<div style="display: flex; border-bottom: 1px solid black;"> <span>Component</span> <span style="background-color: #f0e68c; padding: 2px;">Data Mapunit Certification History</span> <span>Data Mapunit Crop Yield</span> <span>Data Mapunit Text</span> </div> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="2"></th> <th colspan="4">Comp %</th> <th colspan="2">Component Name</th> <th colspan="2">Local Phase</th> </tr> <tr> <th></th> <th>Seq</th> <th>Low</th> <th>RV</th> <th>High</th> <th colspan="2"></th> <th colspan="2"></th> </tr> </thead> <tbody> <tr style="background-color: #4a86e8; color: white;"> <td></td> <td>1</td> <td></td> <td>80</td> <td></td> <td colspan="2">Mollic Eutroboralfs cl-sk mont. D CBV L</td> <td colspan="2">D CBV L</td> </tr> <tr> <td></td> <td>5</td> <td></td> <td>15</td> <td></td> <td colspan="2">Mollic Eutroboralfs fne mont. D CBV L</td> <td colspan="2">D CBV L</td> </tr> <tr> <td></td> <td>6</td> <td></td> <td>5</td> <td></td> <td colspan="2">Typic Eutroboralfs D CBV L</td> <td colspan="2">D CBV L</td> </tr> </tbody> </table>												Comp %				Component Name		Local Phase			Seq	Low	RV	High						1		80		Mollic Eutroboralfs cl-sk mont. D CBV L		D CBV L			5		15		Mollic Eutroboralfs fne mont. D CBV L		D CBV L			6		5		Typic Eutroboralfs D CBV L		D CBV L	
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# Future

- Once the import process is confirmed, additional datasets from Terra will be imported
- Datasets will likely need to be imported into NASIS by a few central folks

# Future

- Evaluate output options to meet USFS needs
- Develop local interpretations for special land management needs

# Longer term

- Identify data needs and business requirements for unmapped Federal lands that will meet local land manager needs
- Collaborate on development of Ecological Site Inventory and Descriptions

# Longer term

- Evaluate the feasibility of importing pedon description/point data from Terra to NASIS
- Make that data available back to USFS as needed in their planning activities