



ECOSYSTEM SERVICES +
BIODIVERSITY NETWORK

ADVANCING CONSERVATION MARKETS IN ALBERTA

DEMONSTRATION SCENARIO: GRASSLANDS

In partnership with



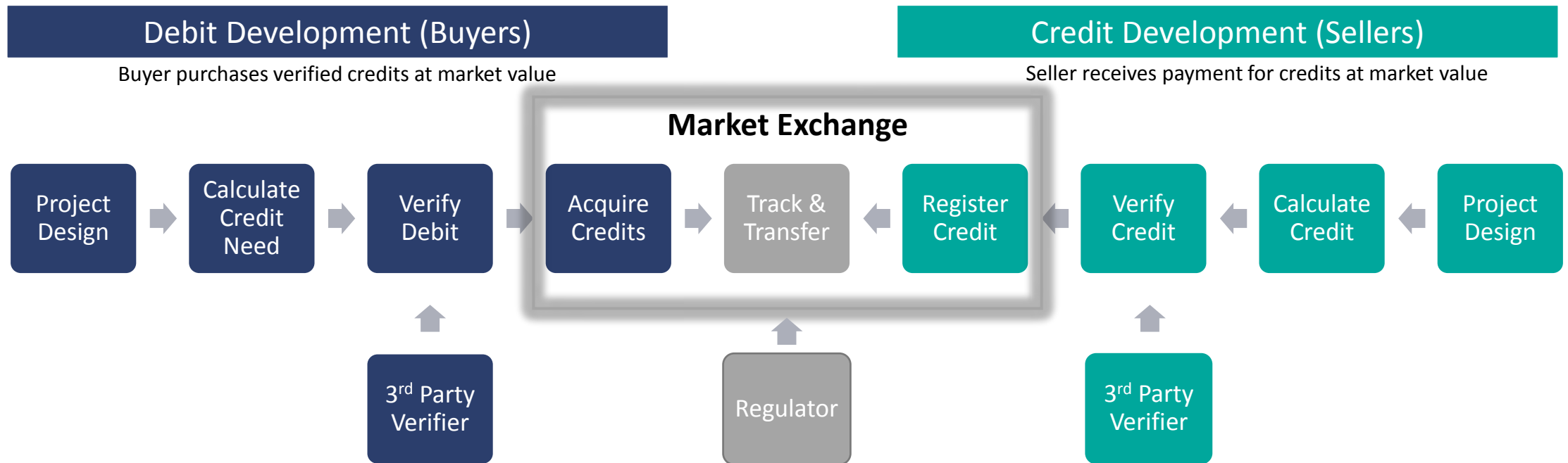
silvacom™



Conservation Market Purpose

- Create incentives for environmental management and conservation while supporting economic development
- Provide compensation for land stewards who implement best management practices
- Offset the impact of development on the landscape

Conservation Market Exchange Process



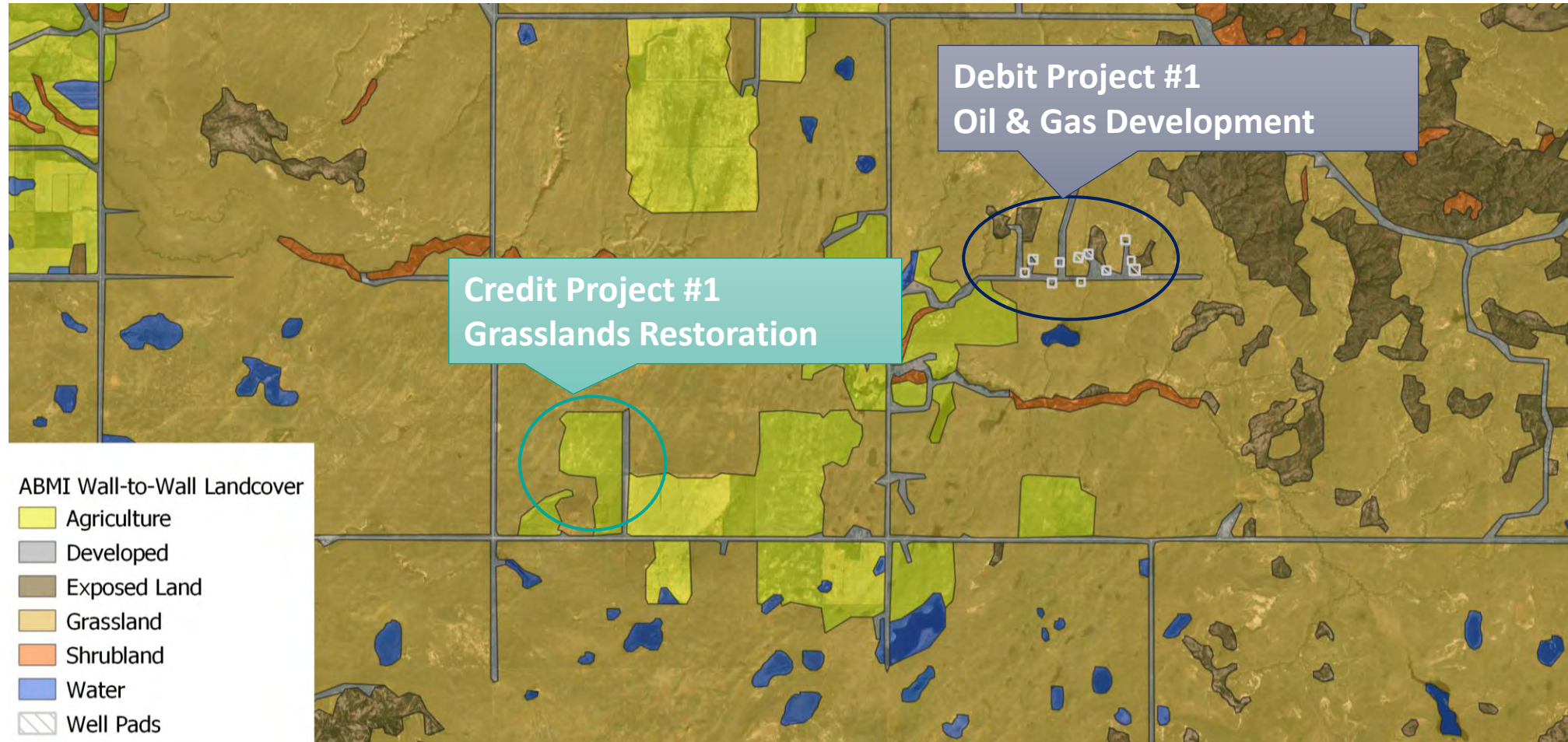


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Demonstration Scenario

Grasslands

Mock Transaction



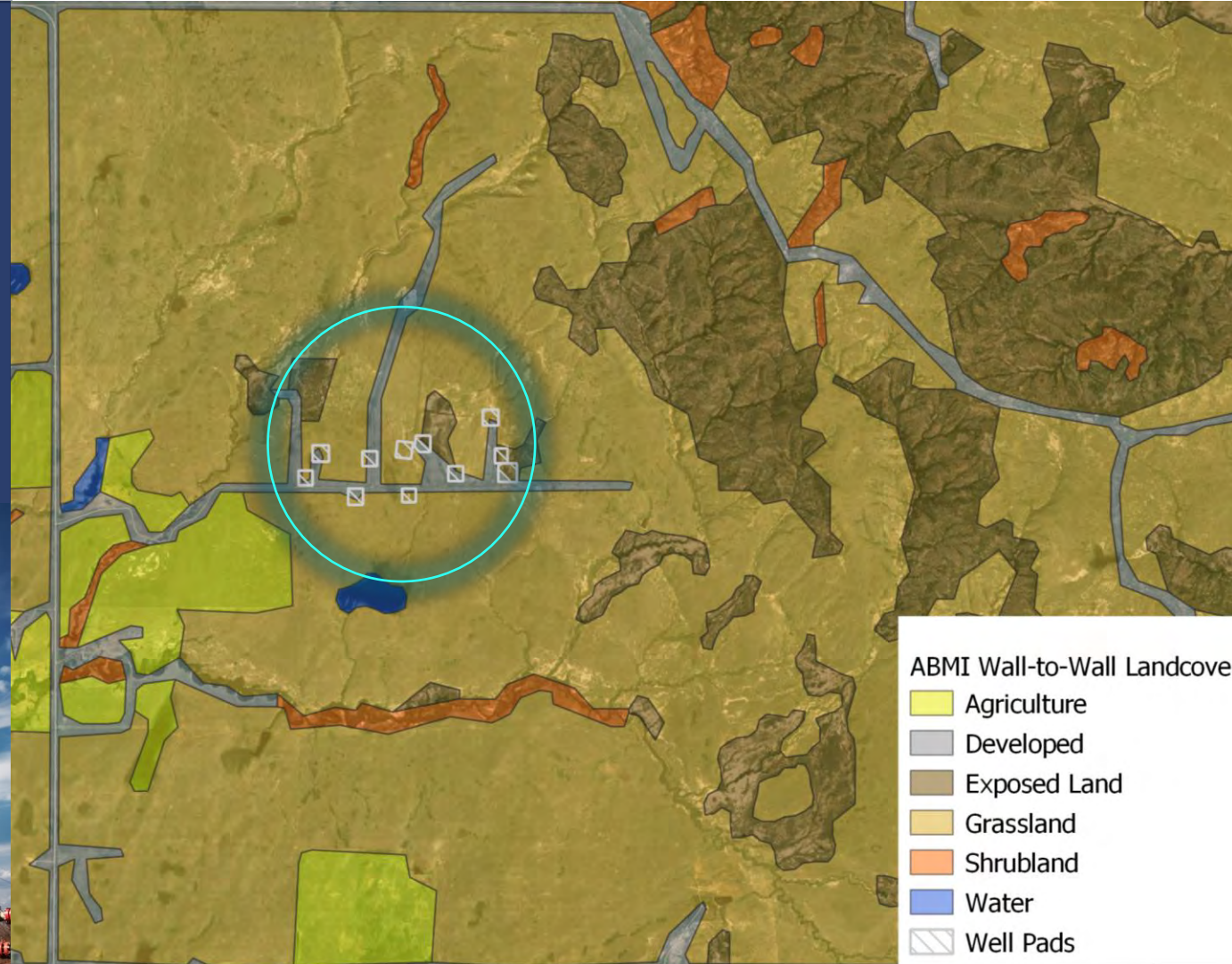
Example Debit Transaction





Debit Project #1

- Well Site Development
 - 11 well sites
 - 1.3 km of access road
 - Native Grassland
 - 30 year project



Project Design



Calculate Credit Need



Verify Debit



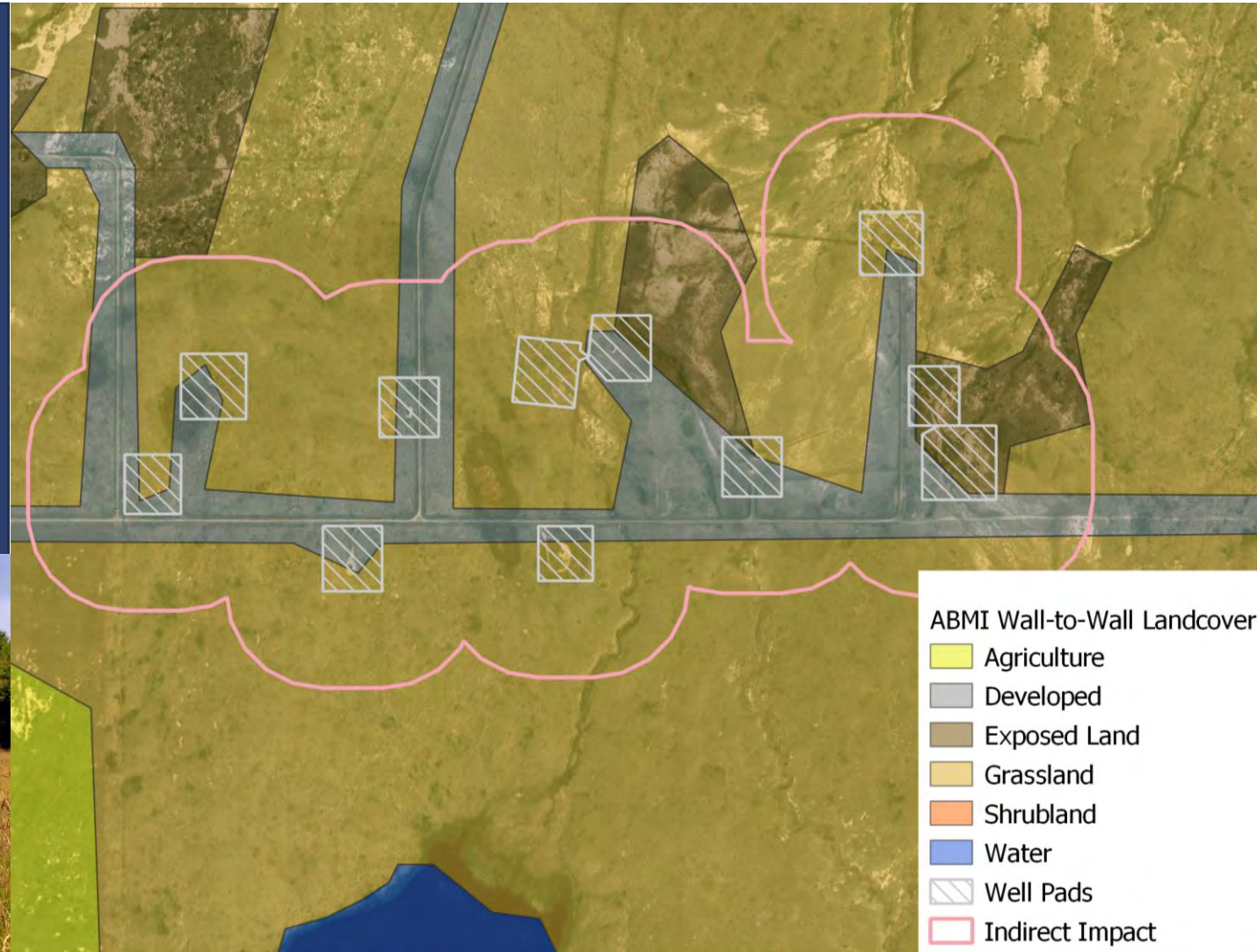
Acquire Credit



Track & Transfer

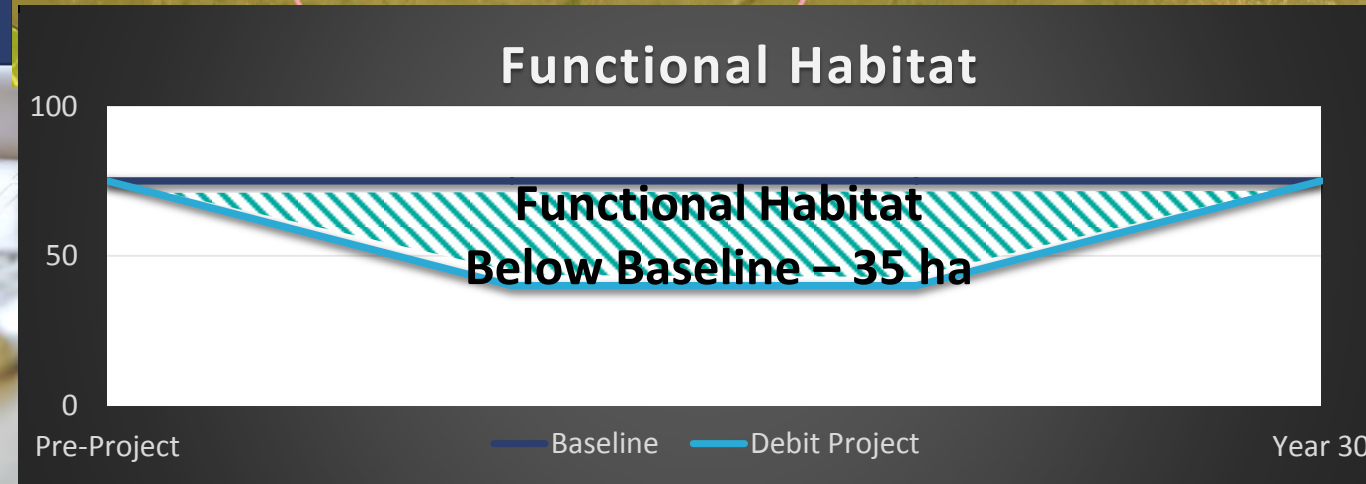
Debit Project #1

- Calculate expected impact to surrounding areas
- Survey anthropogenic features
- Collect field data
 - Wildlife counts
 - Range health
 - Etc.



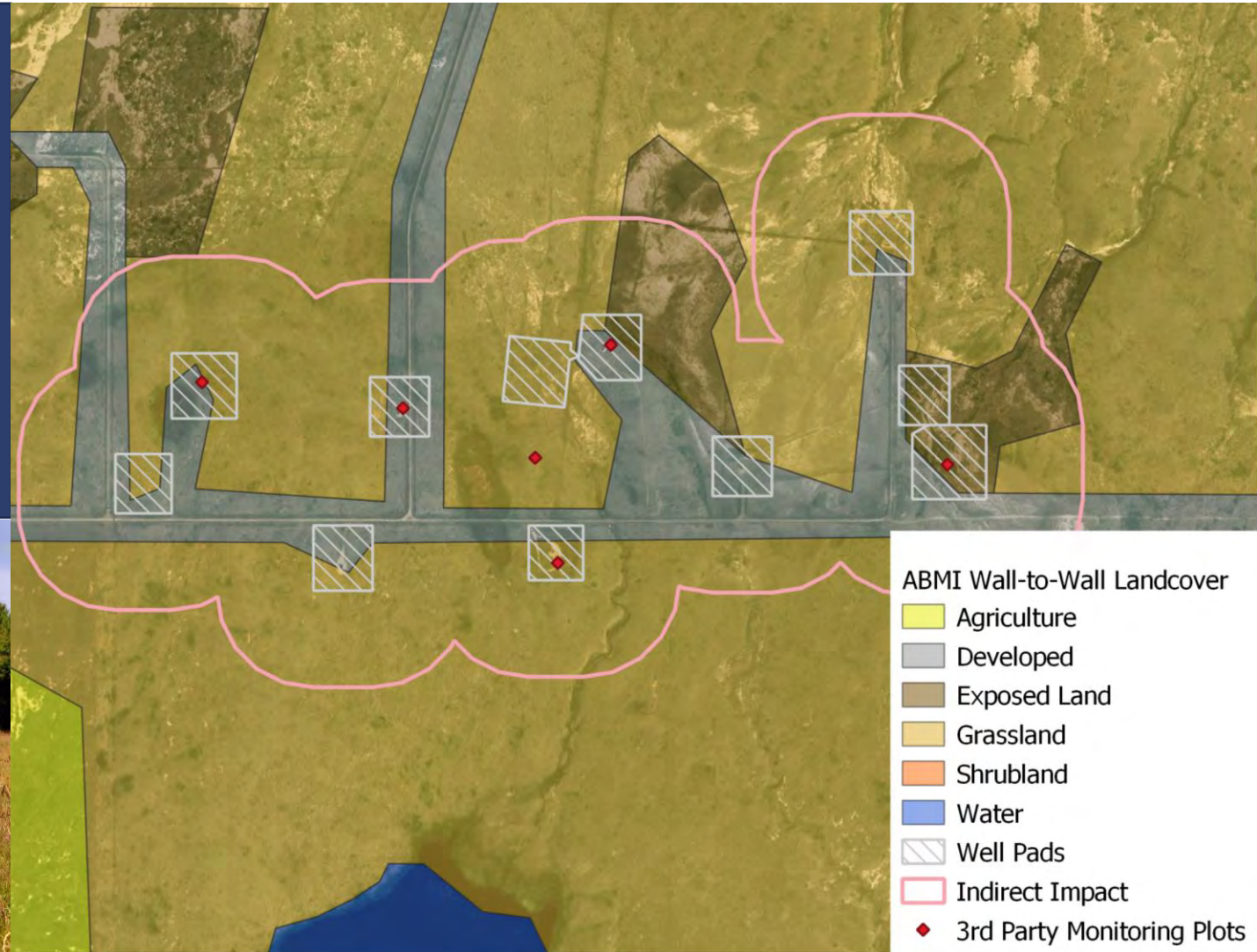
Debit Project #1

- Calculate functional habitat change using approved quantification methods
- ~35 functional ha impact
 - Indirect & Direct
- E.g. 2:1 mitigation ratio
- ~70 credits required (functional hectares)



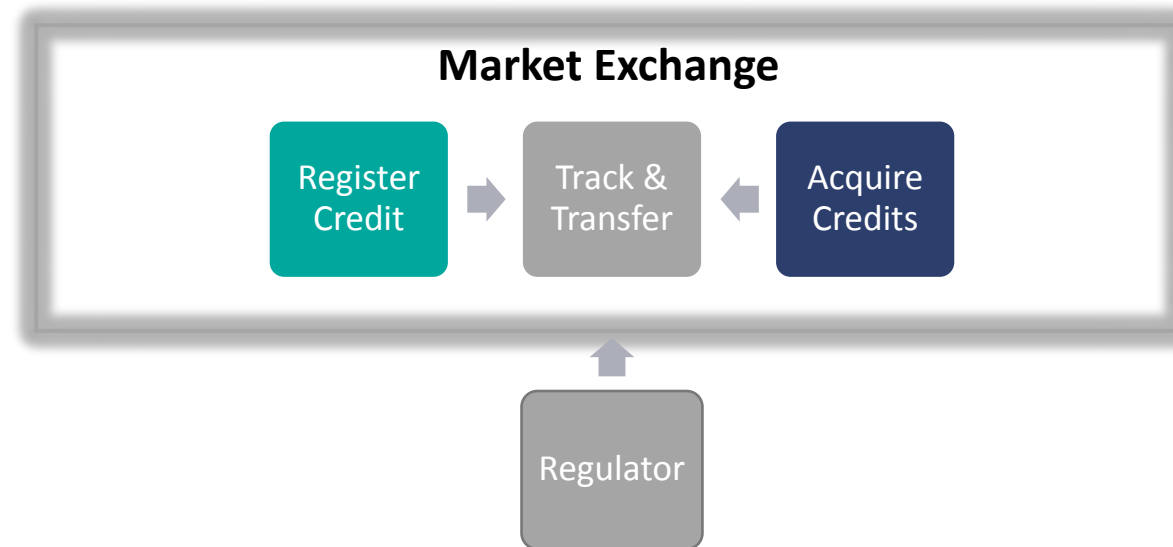
Debit Project #1

- Engage approved 3rd party verifier
- Verifier confirms debit calculations match actual conditions
- Issues a verification report and certification

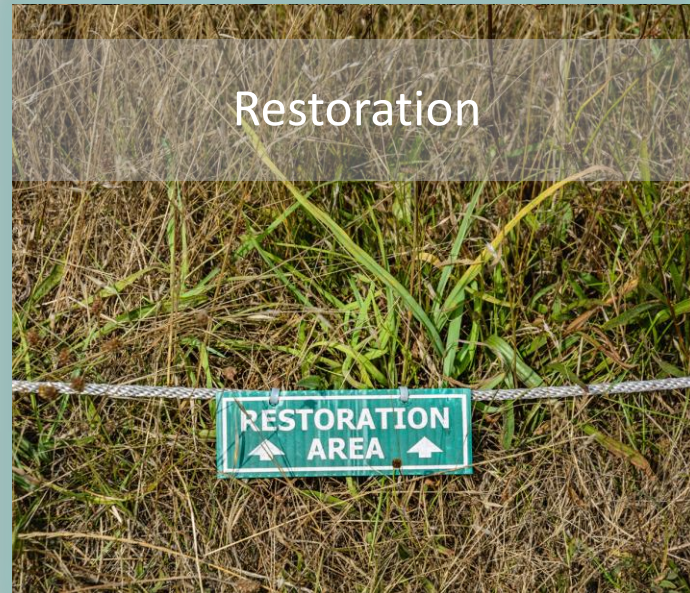


Debit Project #1

- Acquire needed credits
 - Register with the exchange
 - Determine the purchase quantity, price and duration



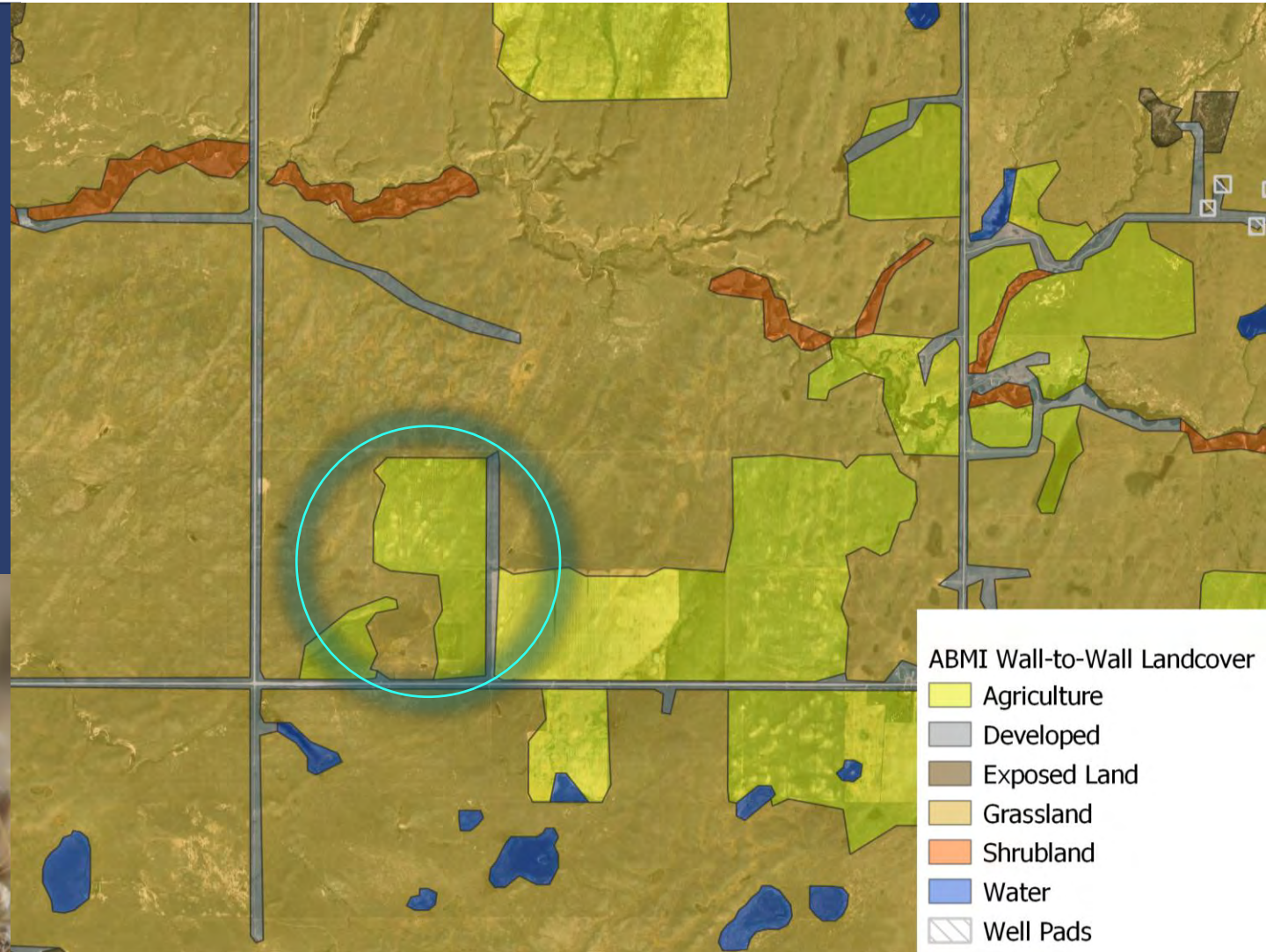
Example Credit Development





Credit Project #1

- Grassland Restoration
- 100 ha area
- Planting marginal cropland with native grassland species



Project Design

Calculate Credit

Verify Credit

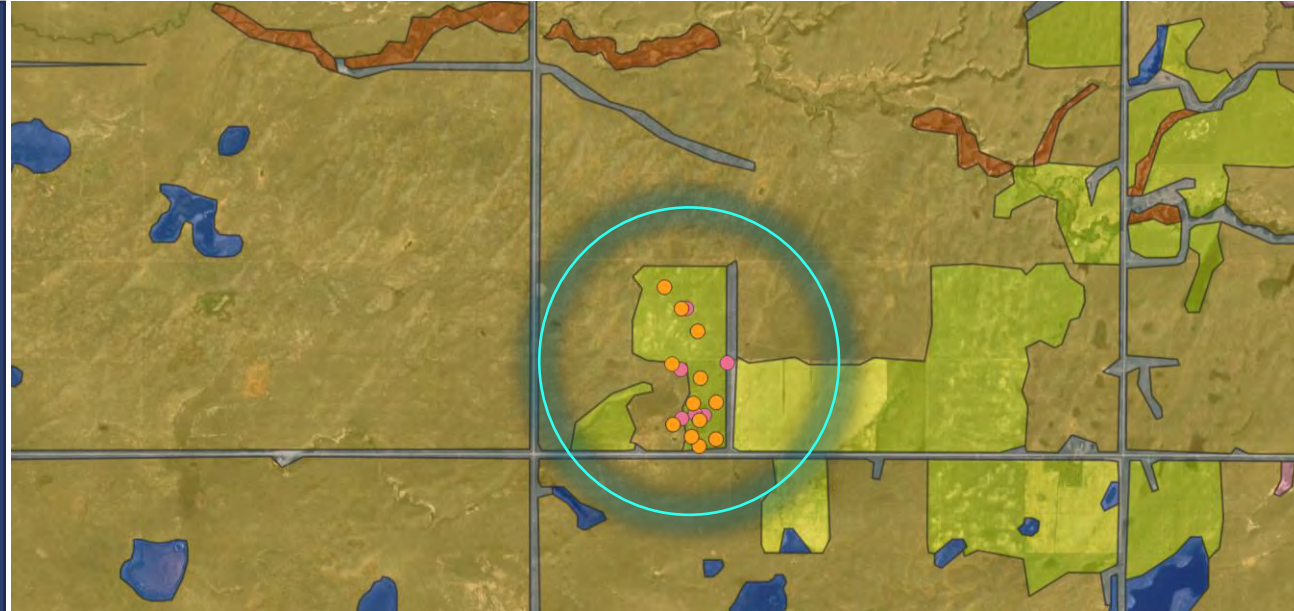
Register Credit

Track & Transfer

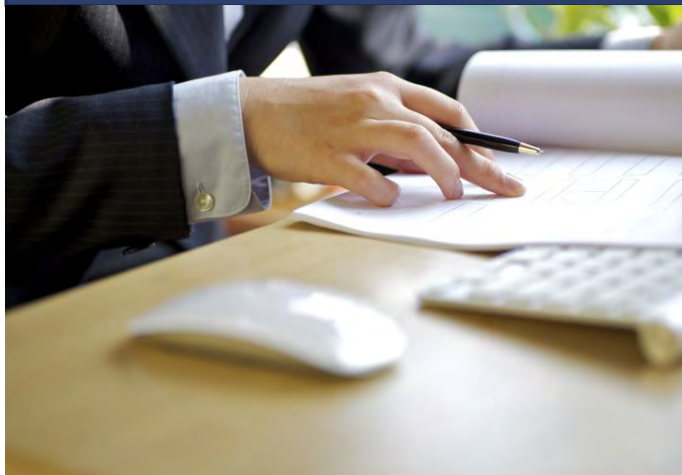
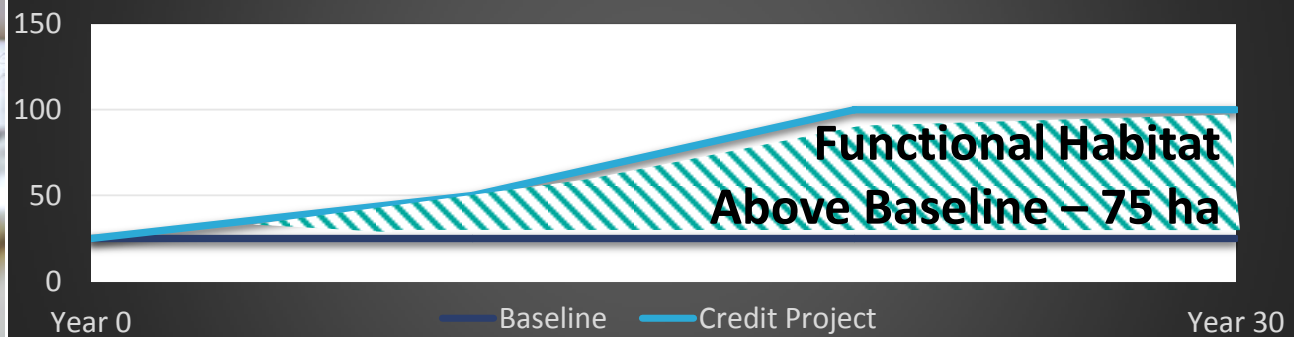


Credit Project #1

- Conduct Field Visit
 - Wildlife Counts
 - Range Health
 - Etc.
- Calculate expected change in functional habitat using approved quantification methods

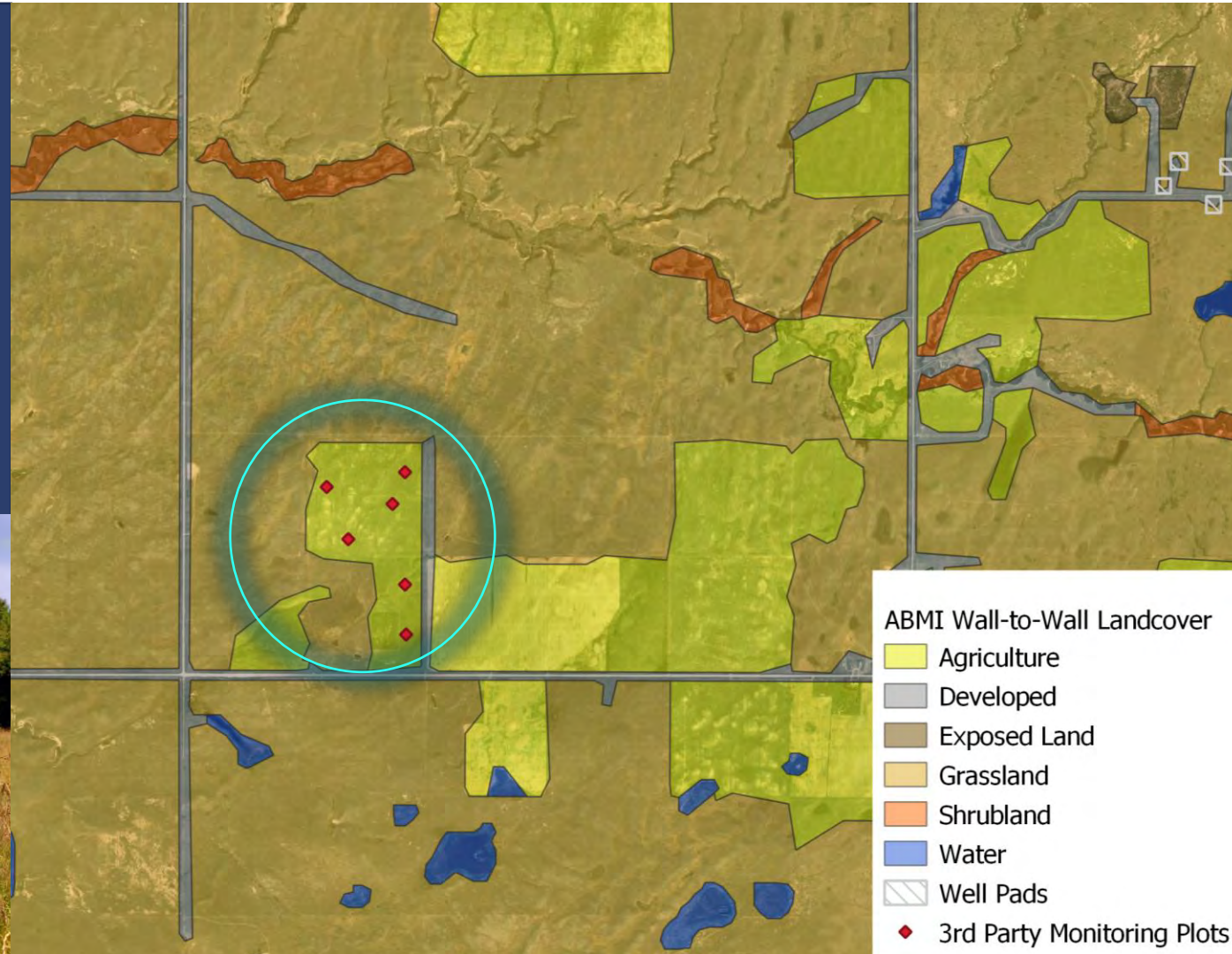


Functional Habitat



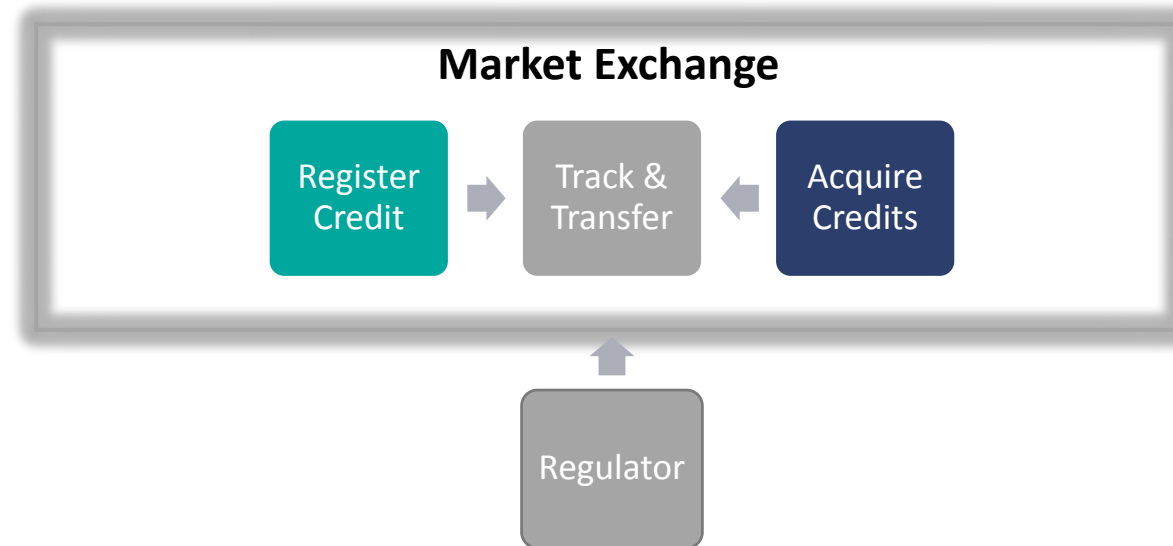
Credit Project #1

- Submit documentation to the clearinghouse & exchange
- 3rd Party Verifier confirms credit calculations match on the ground conditions
- Issues verification report and certification



Credit Project #1

- Register Credits on the Market Exchange
 - Unique Serial Number
 - Number of credits
 - Timeframe
- Annual reports on the Project Management Plan





Track and Transfer

- Sell Credits
- Transfer Credits
- Retire Credits
- Reserve Account
- Communicate Results



Serial Number	Release Year	Total Credits	Length	Retired
001-0005-33654	2010	150	10	No
001-0005-33655	2009	20	20	Yes
001-0005-33656	2007	36	20	Yes
001-0005-33657	2015	18	30	No
001-0005-33658	2018	75	30	No
001-0005-33659	2009	96	50	No
001-0005-33660	2006	54	50	No
001-0005-33661	2019	25	40	No
001-0005-33662	2010	15	25	Yes
001-0005-33663	2009	10	40	No
001-0005-33664	2007	23	20	Yes
001-0005-33665	2015	65	25	Yes
001-0005-33666	2018	96	35	No
001-0005-33667	2009	85	45	No
001-0005-33668				
001-0005-33669				
001-0005-33670				
001-0005-33671				
001-0005-33672				

Title: Grasslands Restoration - Invasive Weed Removal		Project Identifier: 001-0005-33658		
Start	2018	Estimated Functional Habitat	2018	25
End	2048		2028	50
Land Use Planning Region	SSRP			
Quantification Protocol	Invasive Species			
Estimated Functional Habitat	75 hectares	Total	2048	75

Project Design



Calculate Credit Need



Verify Debit



Acquire Credit



Track & Transfer

Acknowledgments

“These slides were developed in part through the adaptation of procedures and publications developed by the Environmental Defense Fund, Environmental Incentives, LLC, and Willamette Partnership, but is not the responsibility or property of any one of these entities”

