



Jeremy Sokulsky, PE, MBA
President

Environmental Incentives

530-541-2980

jsokulsky@enviroincentives.com

Steven Courtney PhD

Director, Collaborative Science Program

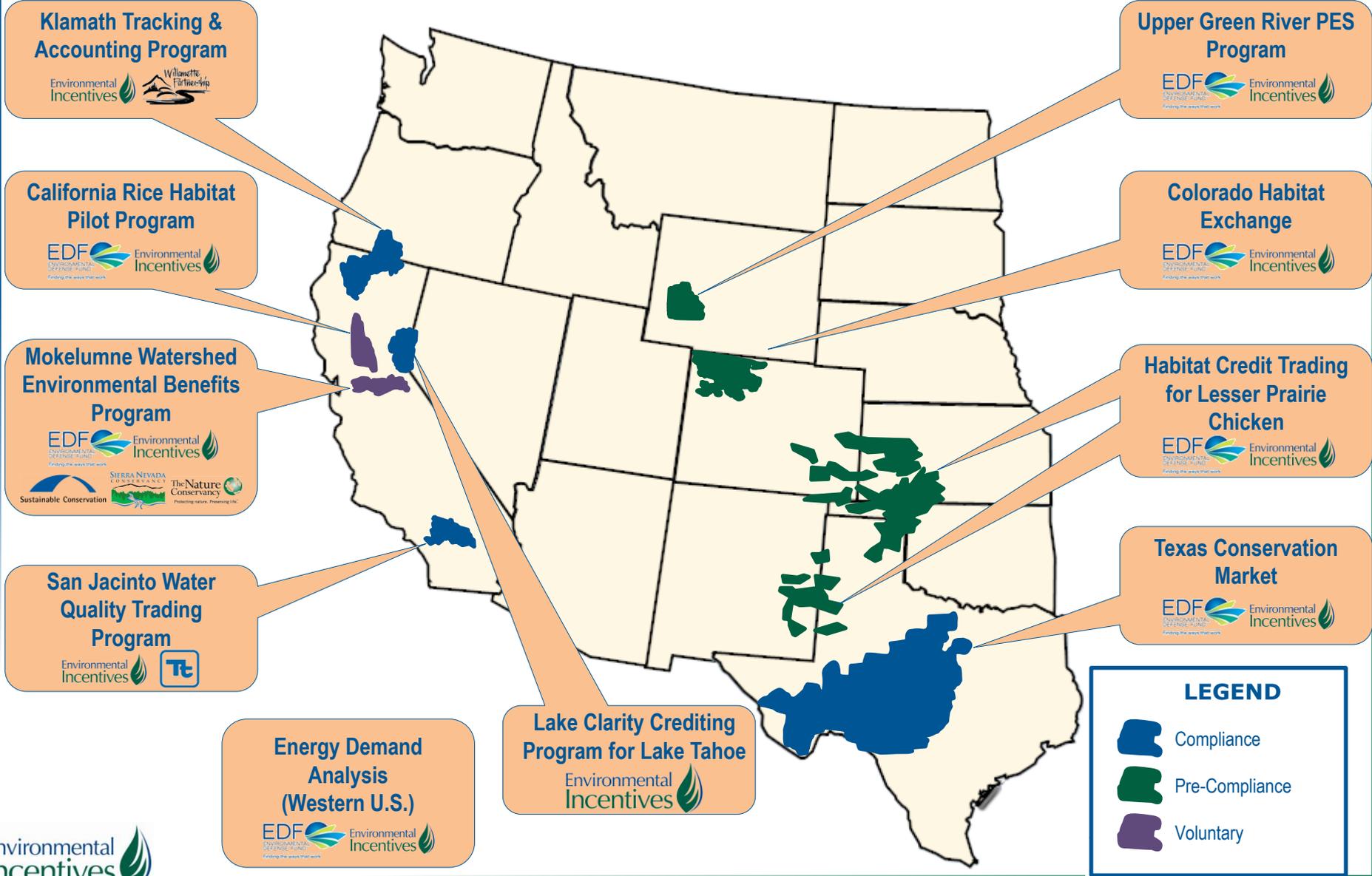
RESOLVE

NEVADA GREATER SAGE GROUSE CONSERVATION CREDIT SYSTEM

Sagebrush Ecosystem Council

May 31, 2013

Environmental Incentives' Active & Pilot Environmental Markets



LEGEND

-  Compliance
-  Pre-Compliance
-  Voluntary

TEAM

Environmental
Incentives 

RESOLVE

EDF 
ENVIRONMENTAL
DEFENSE FUND
Finding the ways that work

 **esg**

Parametrix

SEDGWICK

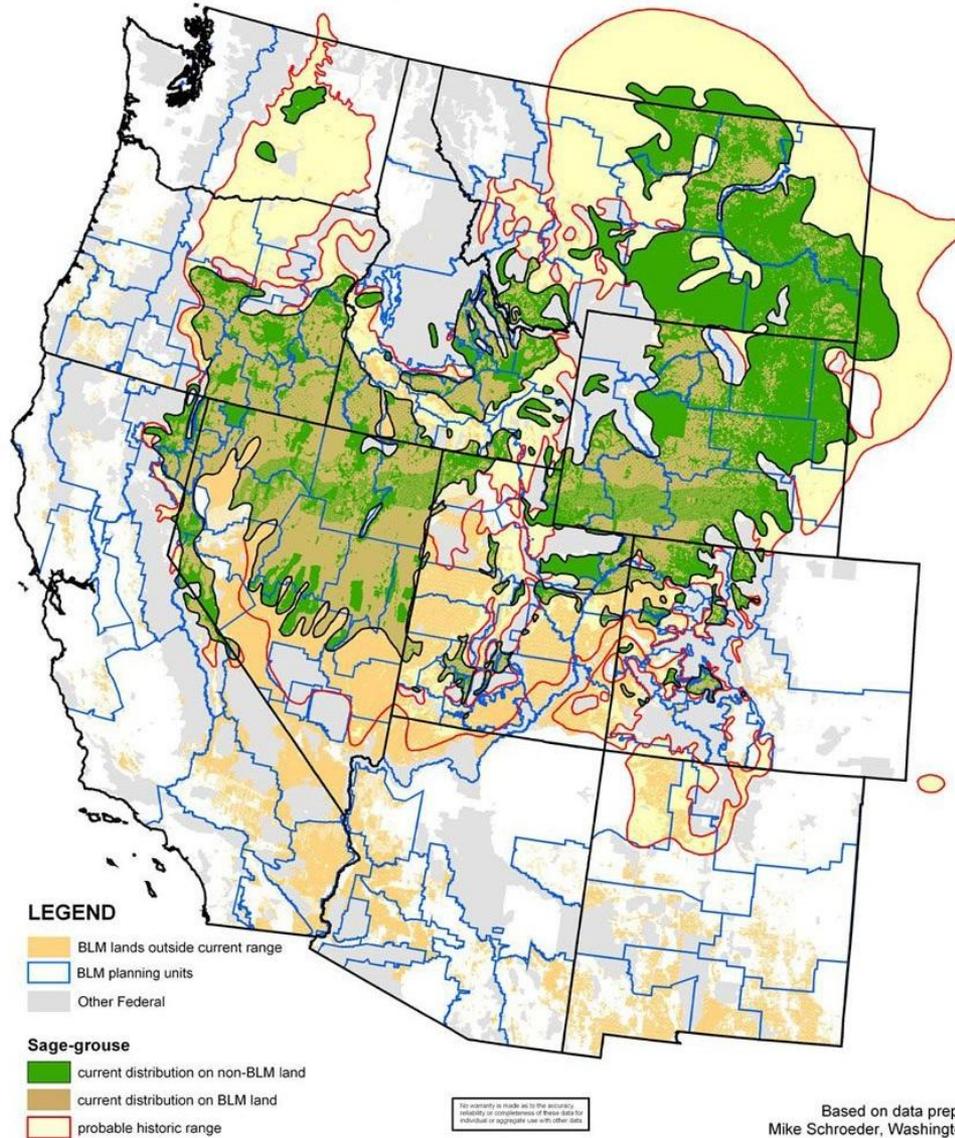
crowell  **moring**

Tom Reichner/Shutterstock.com

Kristiana Hansen/uwyo.edu



GREATER SAGE-GROUSE HABITAT AND BLM LANDS

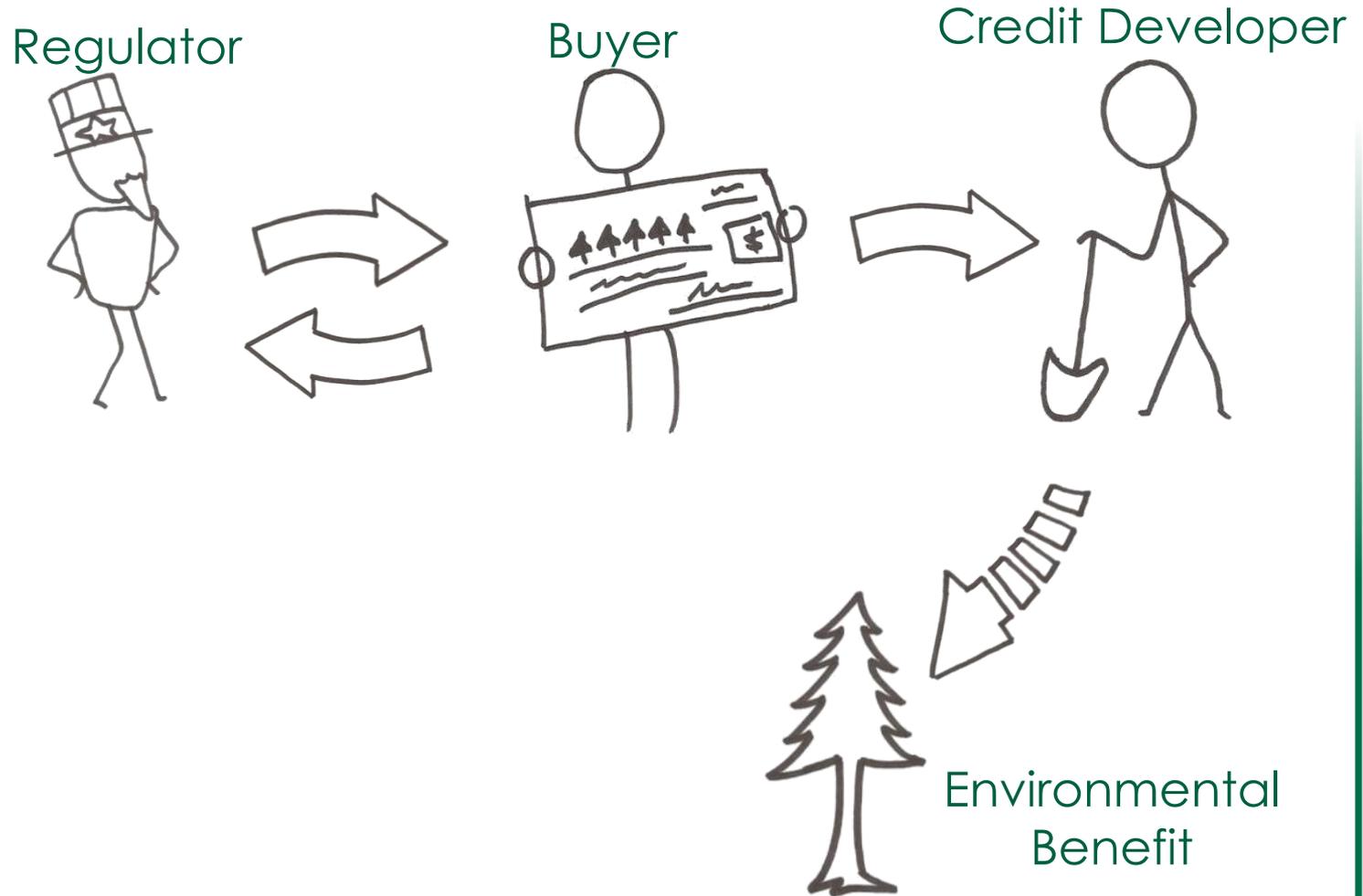


Based on data prepared by
Mike Schroeder, Washington DFW



Photo by: Christopher Watkins

TYPICAL MITIGATION

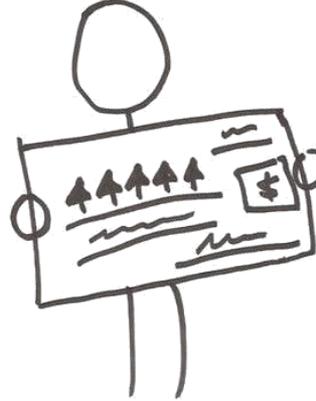


CONSERVATION CREDIT SYSTEMS

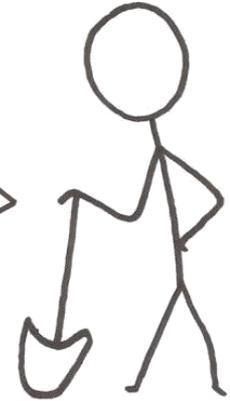
Regulator



Buyer



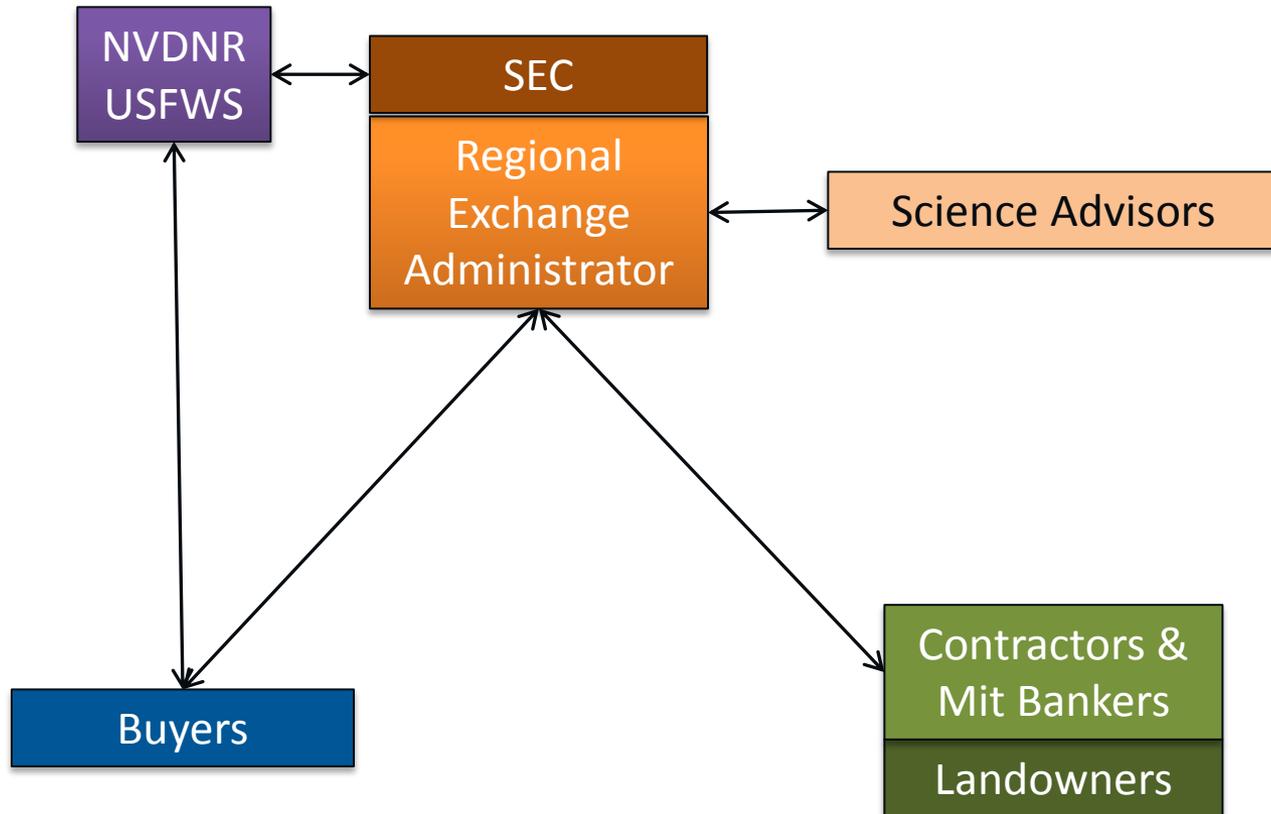
Credit Developer



Environmental Benefit



ORGANIZATIONAL STRUCTURE



POLICIES & PROTOCOLS

Credit System

- Program Agreement
- Quantification Tool & Guidance
- Ecosystem Accounting Protocol
- Service Area Maps
- Contracts & Form Templates

CCA/CCAA/HCP

- Certificates of Participation
- Reference to Habitat Exchange as Primary Mitigation Strategy

- Documentation of Rationale
- Conservation Strategy

QUANTIFICATION TOOL

Measuring Ecosystem Change (MEC)

The MEC is comprised of measurement and analysis of conditions at multiple scales. The boxes below describe the three discreet components of the MEC.

Transaction Measurement

A measure of the site change (4th order) and how that site change effects and is affected by the surrounding context (3rd order). This measure is the basis for debits and credits.

Targeting Strategies and Incentives

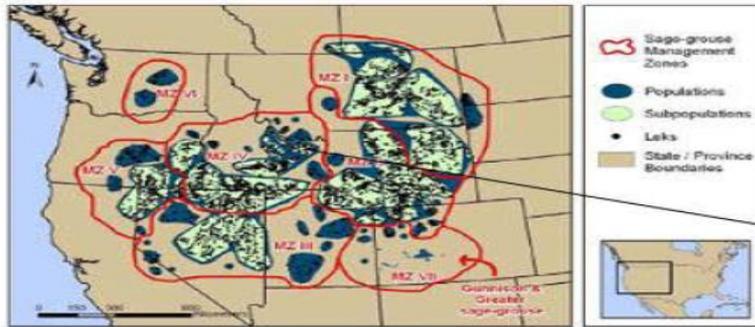
A measure of the conservation needs and opportunities within respective eco-regions (2nd order). This measure will be used to set trading ratios within the Habitat Exchange.

Population Analysis

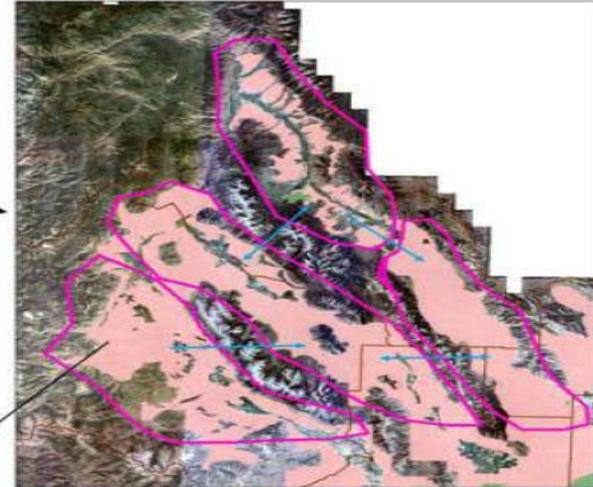
A measure of the performance of the Habitat Exchange Program to increase species carrying capacity (1st order). This measure will be used to adaptively manage Program policies and protocols over time.

SCALES

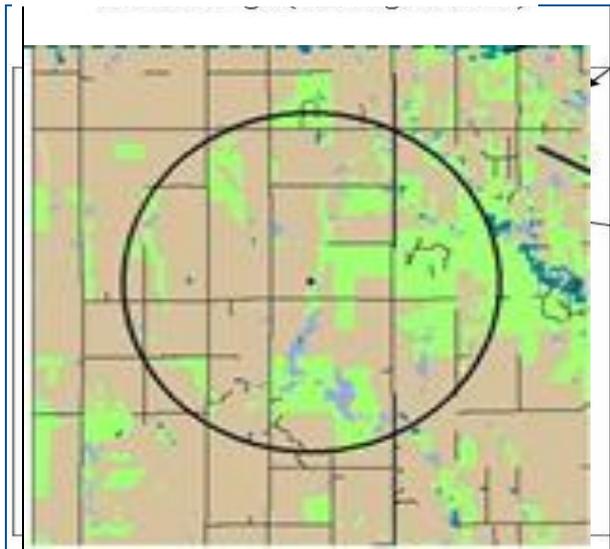
1st Order



2nd Order



3rd Order



4th Order



Sage Grouse Support

Breeding
(nesting/early
brooding)

Summer

Winter

Yellow Text = Scoring Modifier

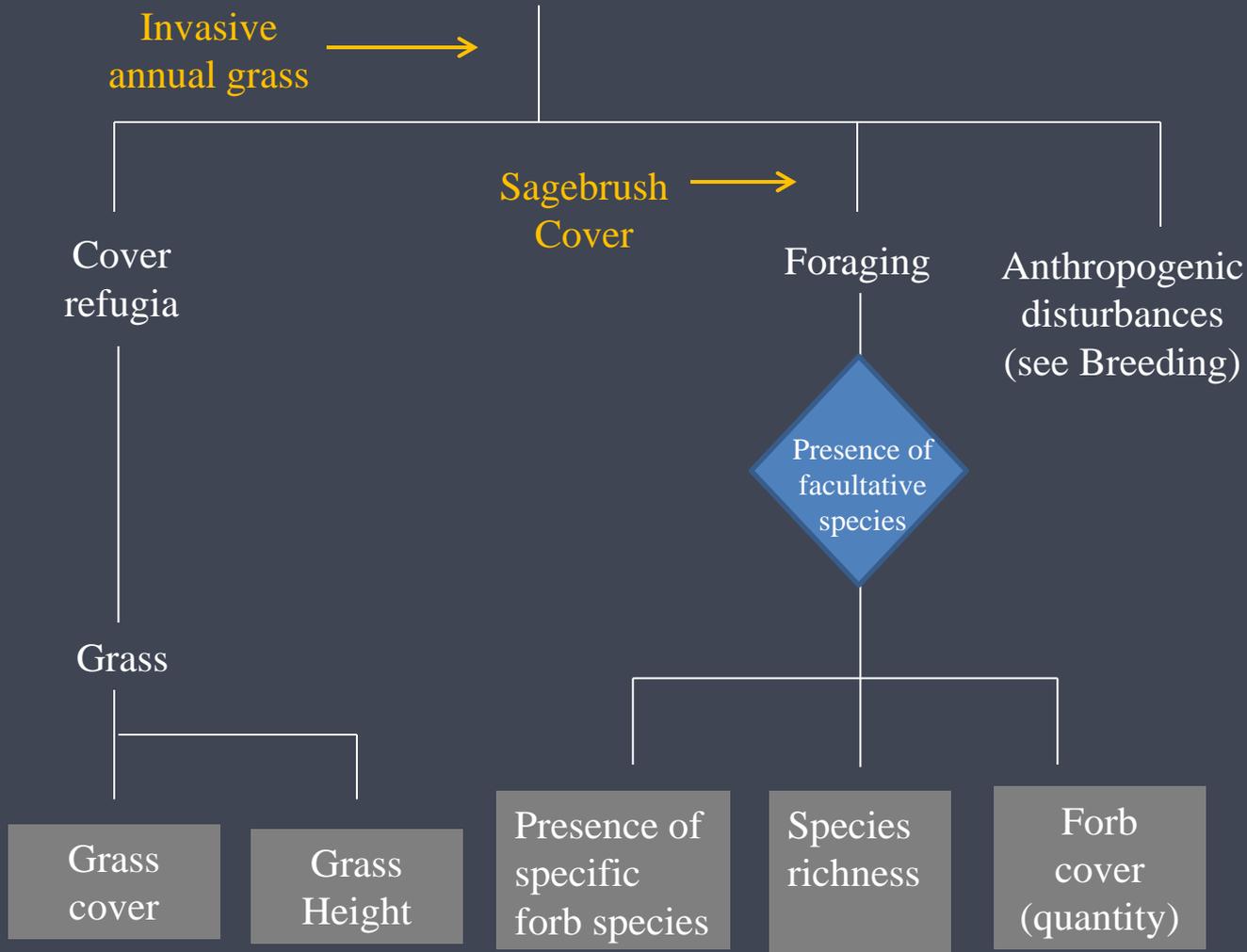
Forb cover
(quantity)

= Measured Attribute

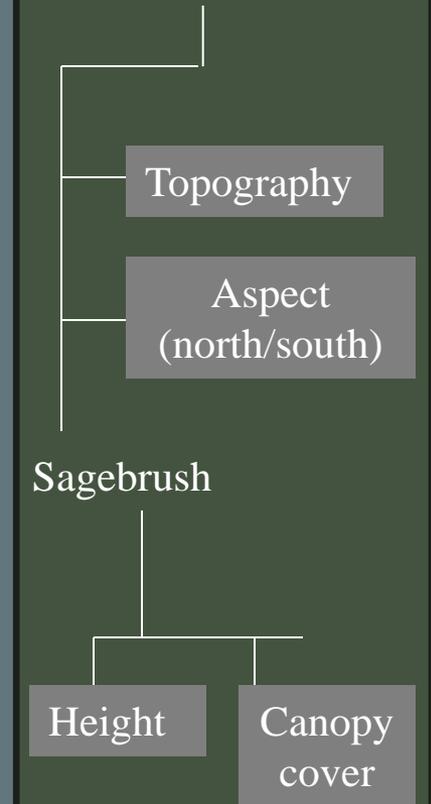


= Scoring Trigger

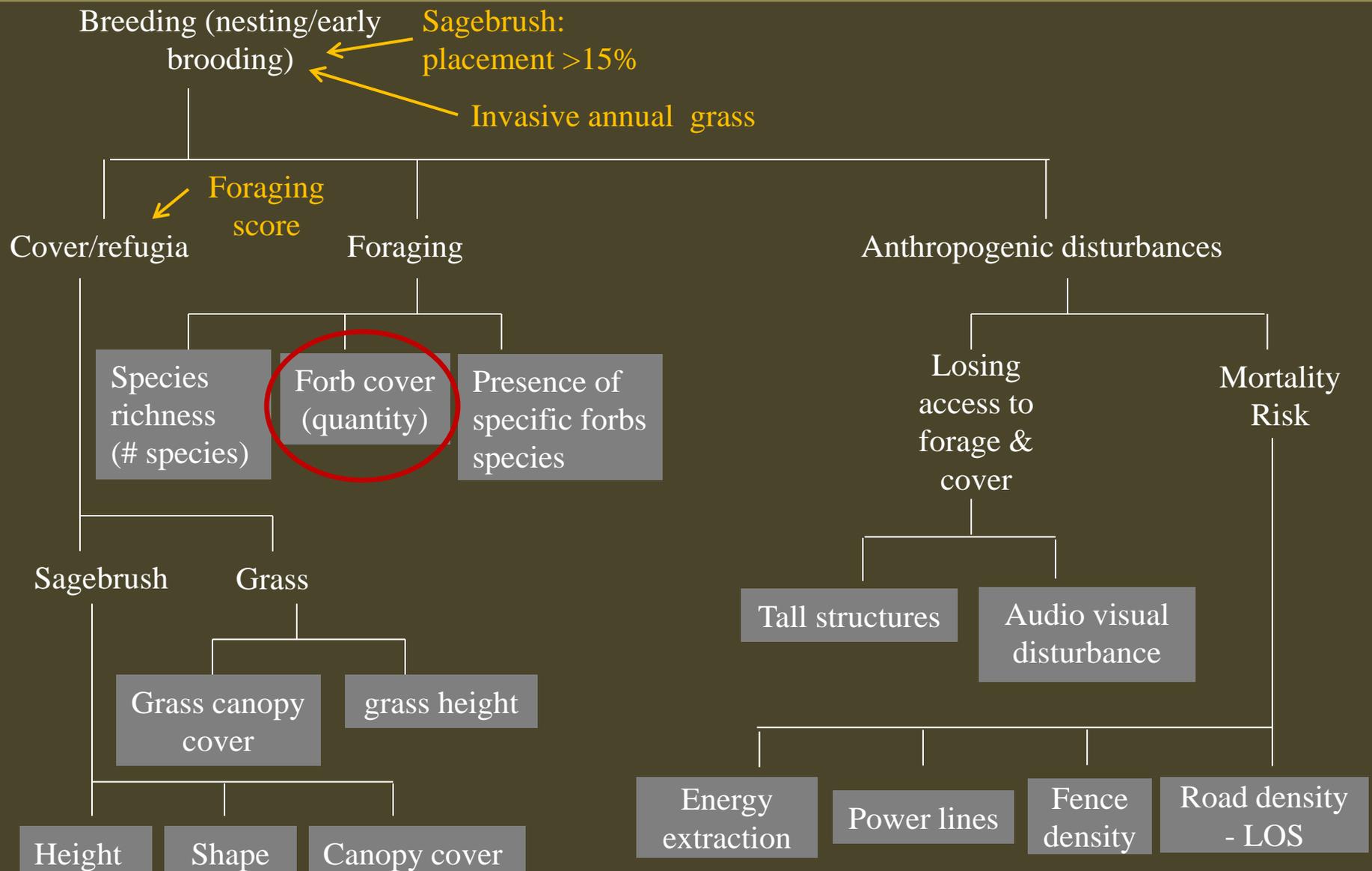
Summer (Brood Rearing)



Winter



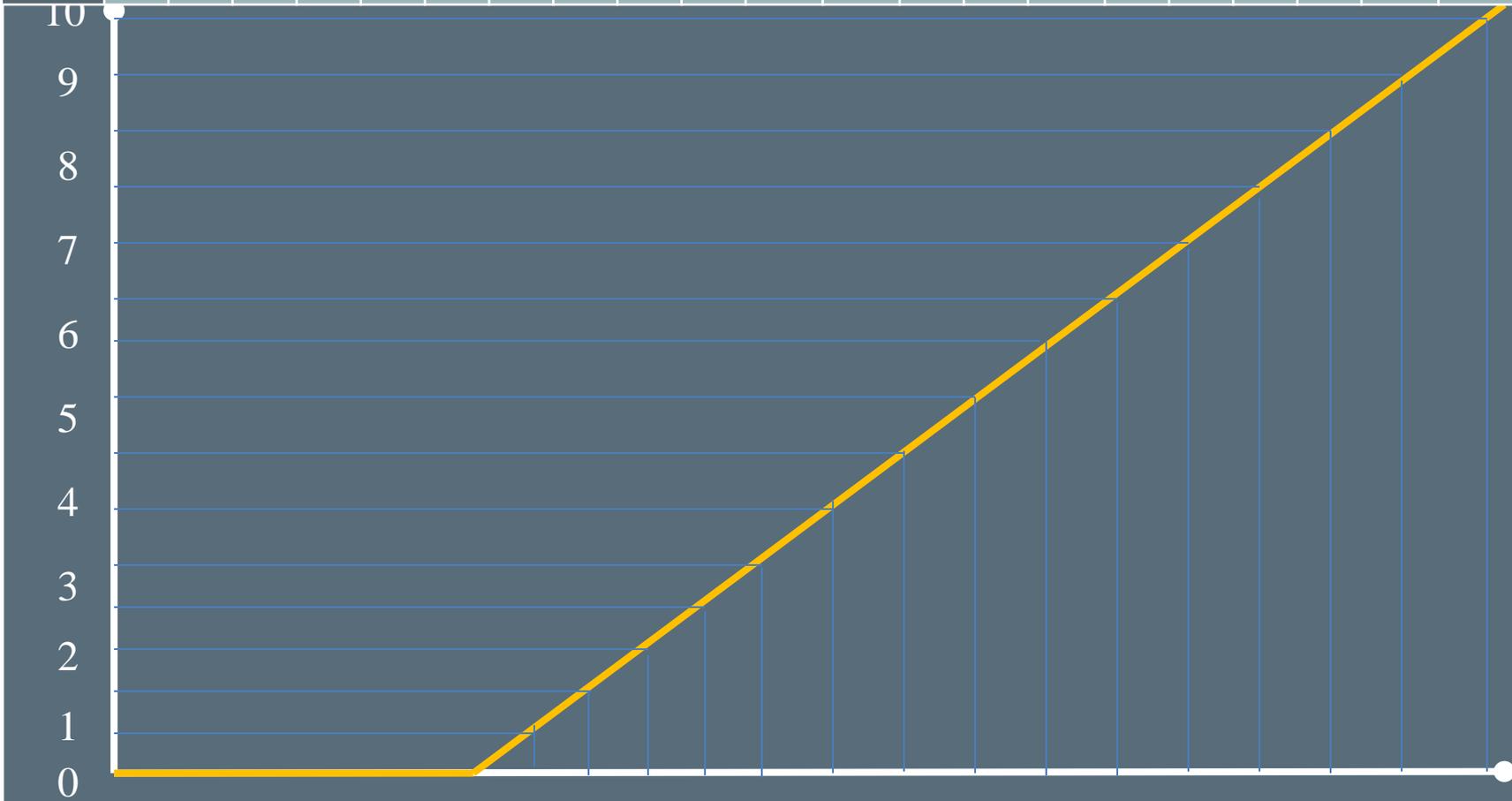
Breeding (nesting/early brooding)



Forb Cover (%)	0%	1%	2%	3%	4%	5%	6%	7%	8%	9%	10%	11%	12%	13%	14%	15%	16%	17%	18%	19%	20%
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Score	0	0	0	0	0	0	1	1.5	2	2.5	3	4	4.5	5	6	6.5	7	8	8.5	9	10
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Attribute contribution to performance of function

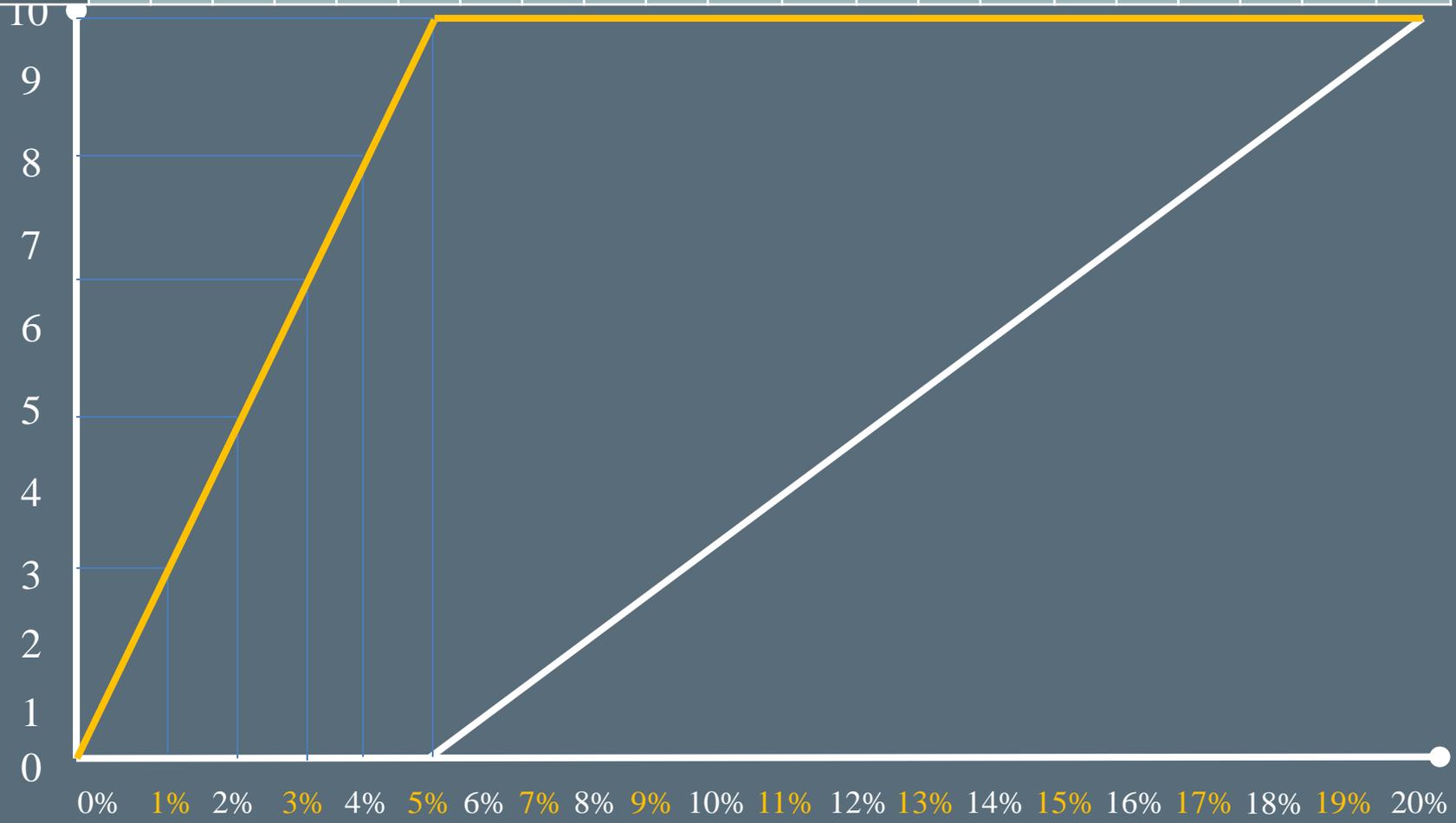


Average Year

Forb Cover

Forb Cover (%)	0%	1%	2%	3%	4%	5%	6%	7%	8%	9%	10%	11%	12%	13%	14%	15%	16%	17%	18%	19%	20%	
Score	0	3	5	6.5	8	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10

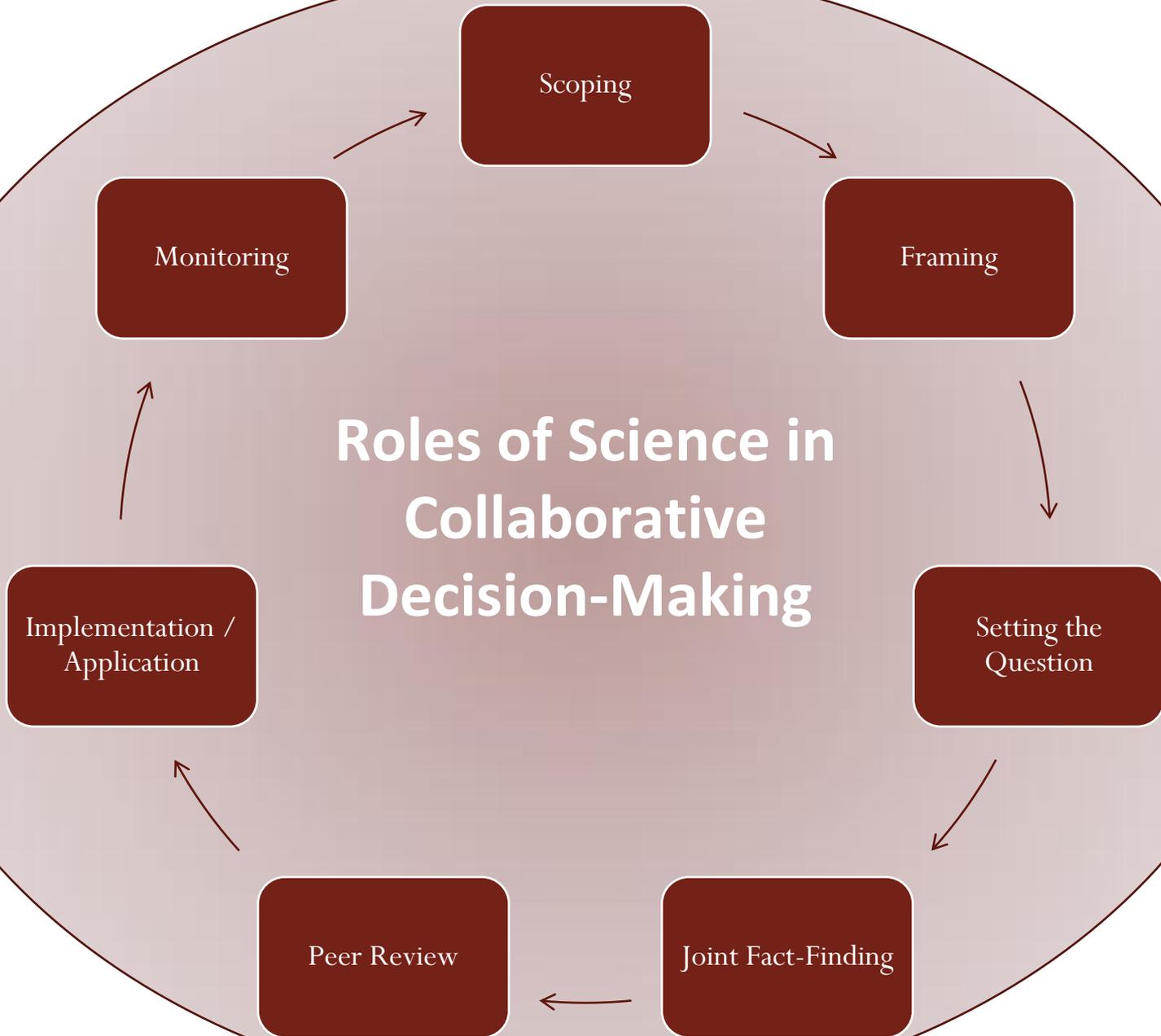
Attribute contribution to performance of function



Dry Year

Forb Cover

Roles of Science in Collaborative Decision-Making



COLLABORATIVE SCIENCE

- Policy- and decision-making often requires complex scientific and technical knowledge. This knowledge may not always be known, agreed upon, readily accessible, or understandable to decision makers and stakeholders.
- Collaborative science is science that informs and supports multi-party decision-making.
- Collaborative science can be used to develop, find, verify, and communicate the best available science to policy decision makers and the public.

SUGGESTED SCIENCE PROCESS

- Majority of science work to be carried out by GSC staff
- Joint Fact Finding (JFF)/ mediated meetings to establish consensus science
- Science Advisory Panel to be selected and managed by RESOLVE
- JFF meetings every ten days to alternate with GSC meetings

SUGGESTED SCIENCE PROCESS

- Majority of science work to be carried out by SEC agency staff
- Joint Fact Finding (JFF)/ mediated meetings to establish consensus science
- Science Advisory Panel to be selected and managed by RESOLVE
- JFF meetings every ten days to alternate with SEC meetings

NV GSG Conservation Credit System Approach

