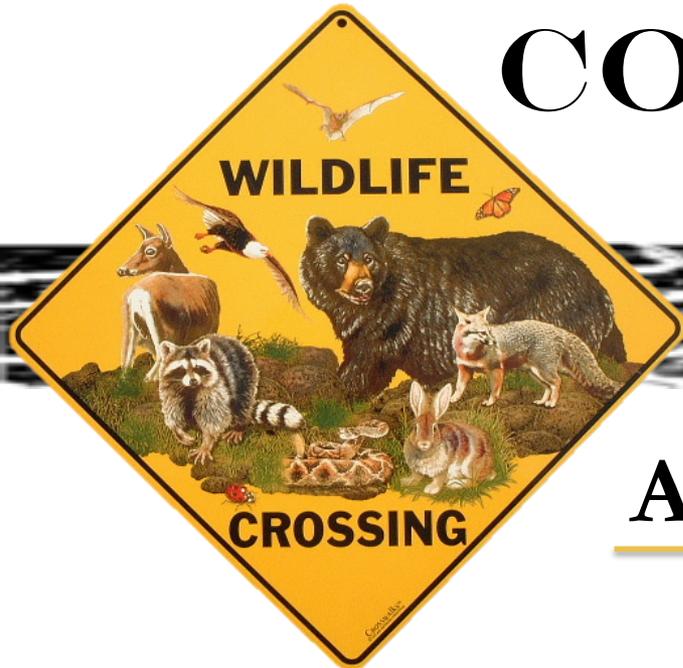


REDUCING WILDLIFE-VEHICLE COLLISIONS



A Policy Process Pocket Guide

Tools, Tips, and Techniques for
Evaluating & Reducing
Wildlife-Vehicle Collisions

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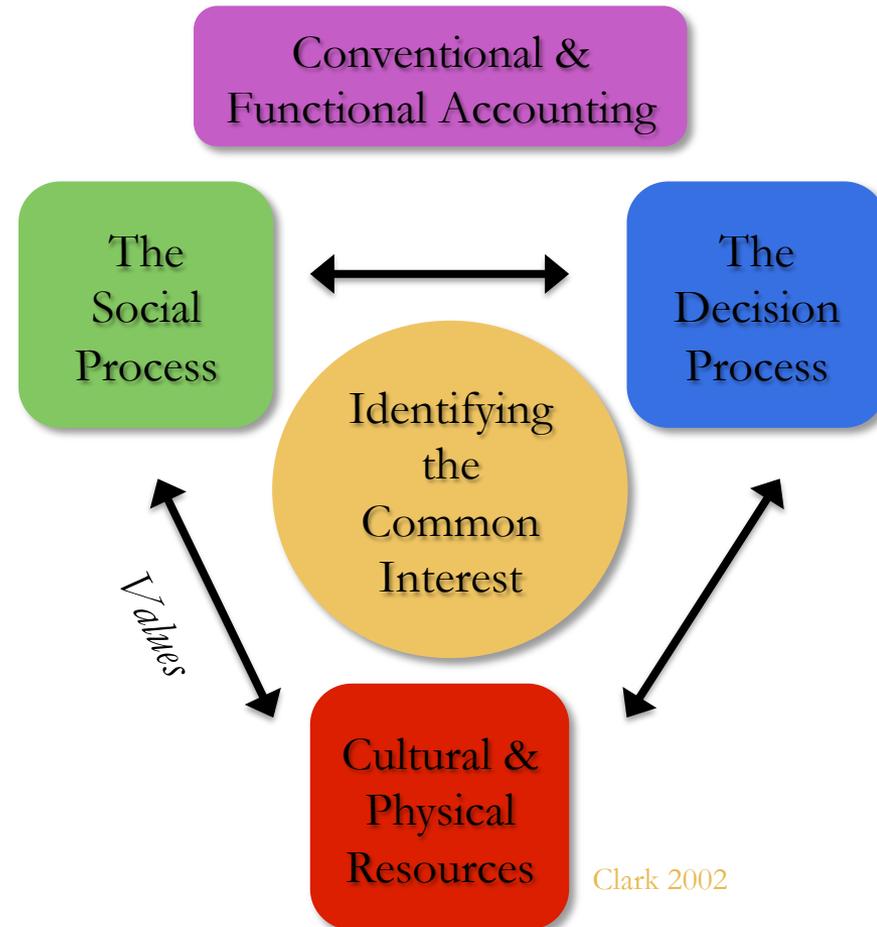


PROBLEM SOLVING & THE POLICY PROCESS

Congratulations! Just by opening this Pocket Guide you are one step closer to attaining the skills and concepts required to thoughtfully and holistically solve problems.

Intended for professionals and enthusiasts of all degrees, this Guide goes a mile wide and an inch deep to introduce the social values, Social Process, Decision Process, and Accounting techniques that help identify the Common Interest – the critical factor in creating sustainable and effective policy.

Our goal here is to guide you through these interdisciplinary steps of the Policy Process to gain a more thorough understanding of the social forces involved in creating policy, and how you can look and think a little deeper to effectively evaluate and reduce wildlife-vehicle collisions.



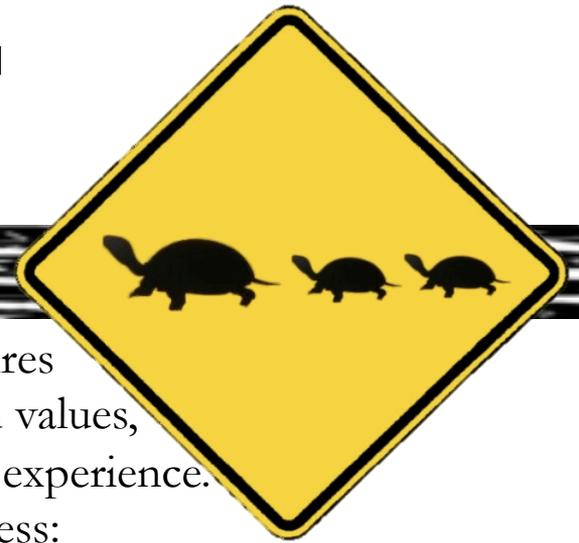
PROBLEM ORIENTATION

The first step in the Policy Process is clarifying and defining the problem at hand. Comprehensive **Problem Orientation** is achieved when the following questions and topics are addressed:

	Questions to Ask	For WVCs
Goals	<input type="checkbox"/> What is the ultimate objective in addressing WVCs?	Reduce the amount of WVCs that occur on roadways.
Trends	<input type="checkbox"/> What are the historical trends in WVCs?	<input type="checkbox"/> Is the number of occurrences decreasing or increasing?
Conditions	<input type="checkbox"/> What other conditions are correlated with the occurrence of WVCs?	<input type="checkbox"/> What environmental, political, species-specific events have happened in conjunction with trends?
Projection	<input type="checkbox"/> What trends are expected if no mitigation strategies are employed?	<input type="checkbox"/> Can we predict where and under what conditions WVCs will occur in the future?
Alternatives	<input type="checkbox"/> What intermediate or alternative goals can be applied to reach our goal? <input type="checkbox"/> What are the policy options?	<input type="checkbox"/> What are the structural solutions? <input type="checkbox"/> Management options? <input type="checkbox"/> Behavior-changing options?



THE SOCIAL PROCESS



Understanding the social component of policy creation requires a more in-depth analysis of the participants, their perspectives and values, and how these influence where this issues lies in the larger human experience.

Seven components must be accounted for in this Social Process:

Participants	Groups and individuals related to the case. <input type="checkbox"/> Private, non-profit, and government organizations. <input type="checkbox"/> Local, regional, national, or transnational level.
Perspectives	The <i>identity, expectations, and demands</i> of the participants, and how they influence participants' definition or view of the issue.
Situations	Identify the arenas and circumstances in which participants interact.
Base Values	Values possessed by participants. <i>See pages 6-7</i>
Strategies	Strategies for how participants express their values. <input type="checkbox"/> Diplomatic, Ideological, Economic, or Military?
Outcomes	Short-term consequences of social interactions, as defined by values.
Effects	Long-term outcomes in values, groups, and larger society.

The Social Process for Wildlife-Vehicle Collision Management

Participants	Perspectives	Situations	Base Values	Strategies	Outcomes	Effects
Drivers	Expect safe, unimpeded roadways.	On roadways Pay taxes Public forums	Wellbeing Skill	Driving Speed Voting Insurance claims	Safety on roadways	...
City Planners	Maximize land space and value for development	...	...	...	...	...
Private Developers	Concerned with government building regulations and client demands	...	...	...	...	...
Wildlife & Park Managers	Protection & safety of wildlife	...	...	...	...	...
Government Transportation Agency	Protection & safety of drivers & integrity of infrastructure	...	...	...	...	...
Wildlife	...	...	...	...	...	...
Etc.						



SOCIAL VALUES IN THE POLICY PROCESS

Social values play a huge role in the creation of people's perceptions and biases, which in turn influence how people define problems, prioritize and process information, and make decisions. Identifying which values are held by the actors involved in the Policy Process is thus an important part of effectively communicating with others and understanding the social and political context.

Working and speaking with drivers who are targets for education campaigns, for example, will require a different set of discussion points and arguments than those relevant for government transportation or agents or lawyers who are responsible for enforcing ultimate policy.

Below are the key 8 values to keep in mind:



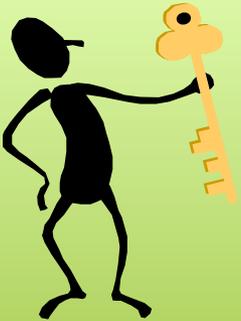
POWER



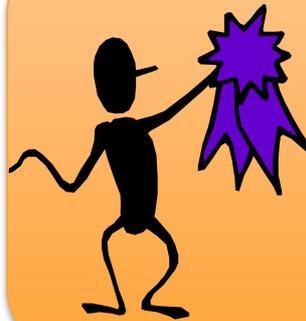
SKILL



WEALTH



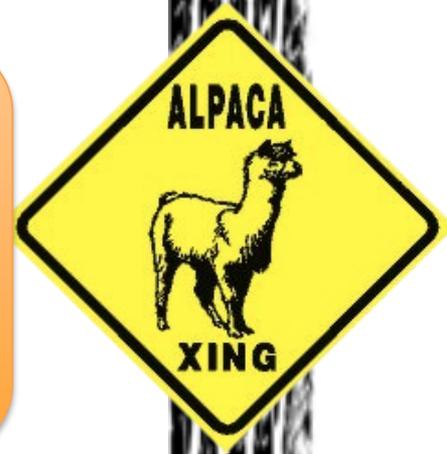
RESPECT



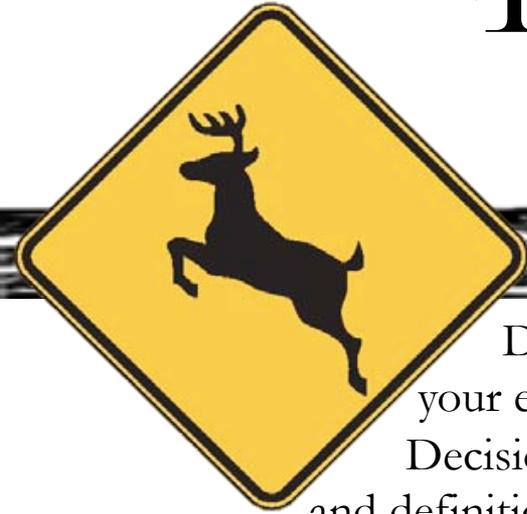
ENLIGHTENMENT



RECTITUDE

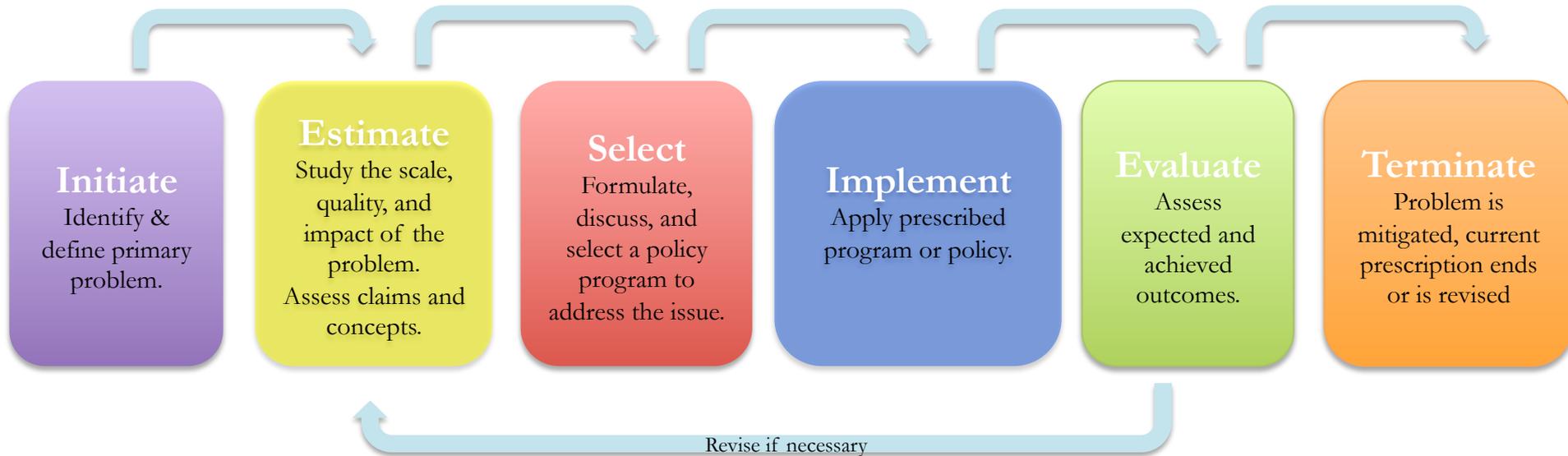


THE DECISION PROCESS



Determining where you fit into the Policy Process – or simply where your efforts may be most impactful - requires an understanding of the Decision Process that encapsulates the life cycle of a policy from the identifying and definition of a problem through its termination.

The Decision Process is comprised of 6 actions:



Decision Process Questions for Wildlife-Vehicle Collision Management

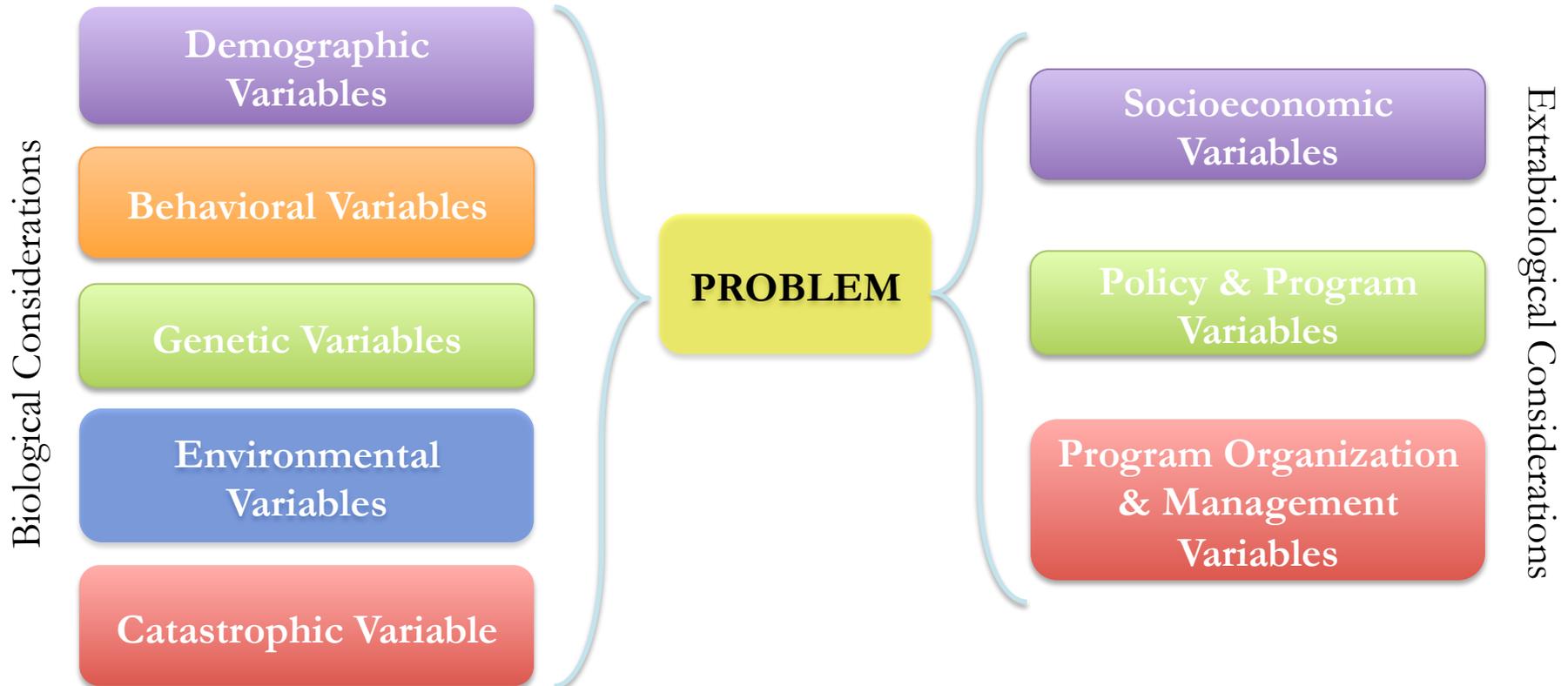
Initiation	<ul style="list-style-type: none"> <input type="checkbox"/> Which participants are identifying WVCs as a problem? <input type="checkbox"/> Whose interests are favored by the initial problem definition? <input type="checkbox"/> Who are the most suitable participants to involve going forward?
Estimation	<ul style="list-style-type: none"> <input type="checkbox"/> How many WVCs are happening annually? <input type="checkbox"/> Are there seasonal trends? <input type="checkbox"/> Where are the WVC “hotspots”? <input type="checkbox"/> Which species are of greatest environmental concern? Which are most impacted by WVC related mortality? <input type="checkbox"/> Which species are associated with greatest vehicle damage? (Economic Impact)
Selection	<ul style="list-style-type: none"> <input type="checkbox"/> Based on the information above, where are efforts best served to reduce WVCs? Species-specific? Area-specific? Etc <input type="checkbox"/> Who will be responsible for carrying out this policy (policies)?
Implementation	<ul style="list-style-type: none"> <input type="checkbox"/> Is the implementation schedule addressing needs in a timely manner? <input type="checkbox"/> Which participants are fulfilling their responsibilities?
Evaluation	<ul style="list-style-type: none"> <input type="checkbox"/> Has the overall number of WVCs decrease? <input type="checkbox"/> Have species and areas identified as primary focus displayed a decrease in WVC involvement?
Termination	<ul style="list-style-type: none"> <input type="checkbox"/> Is the number of WVCs low enough to justification completion of the project?



CONVENTIONAL ACCOUNTING



Conventional Accounting is the process in which we identify the Biological and Extrabiological Considerations related to WVCs. These are the factors that are commonly identified and addressed among most practitioners.



CONVENTIONAL ACCOUNTING FOR WVCs



FUNCTIONAL ACCOUNTING



Lets bring this all together! Functional Accounting is the process in which we go beyond the standard measures and factors involved in problem solving, and take a more qualitative, interdisciplinary, critical approach to understanding the problem at hand. Functional Accounting is comprised of 5 major question categories that integrate the concepts we have discussed so far, and supplement Conventional Accounting.

IS IT REASONABLE?

Problem Orientation

Page # 4

IS IT POSSIBLE?

The Social & Decision

Processes

Page # 5-10

IS IT JUSTIFIED?

Social Process:

Participant Perspectives & Myths

Page # 5

WHAT IS MY STANDPOINT?

Identifying my epistemological, organizational, disciplinary, religious, class, parochial, world-view biases that influence my assumptions & analysis.

HOW WILL I INTEGRATE THIS KNOWLEDGE?

How can I fully synthesize and evaluate findings from the preceding questions to improve my skills as a critical thinker, practitioner, and problem-solver in the future?



Go Forth & Problem Solve!

