

**DESERT**

**TORTOISE**

**CONCEPTUAL**

**MODEL**

**PHILIP A. MEDICA  
U.S. FISH & WILDLIFE SERVICE**

# ACKNOWLEDGMENTS

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Granite Mountain Desert Research Center,  
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## **OBJECTIVE:**

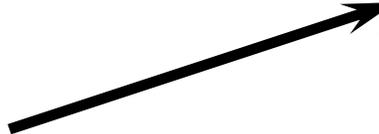
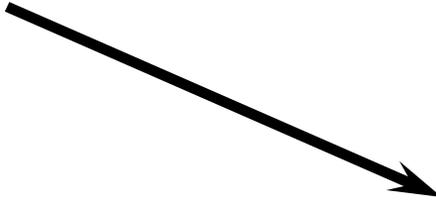
**The objective of the Desert Tortoise Conceptual Model is to guide the development of a multifaceted, ecologically adaptive, predictive tool. This model will assist in predicting the population fluctuations with varying environmental inputs that impact survivorship, reproduction, longevity, as well as population structure and function.**

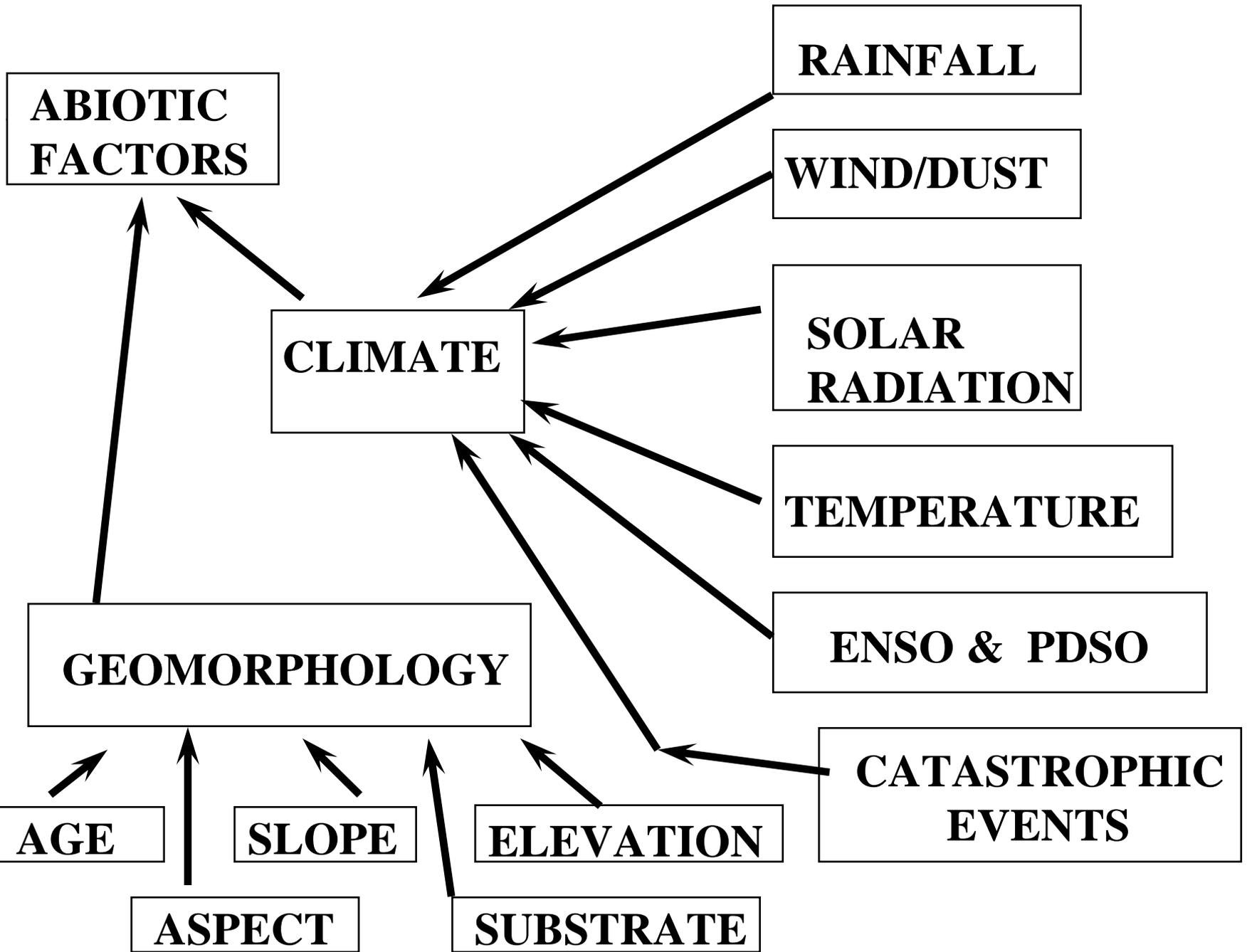
**This Model will assist in the evaluation of desert tortoise recovery rangewide, and will be usable as a predictive tool for the evaluation of management practices.**

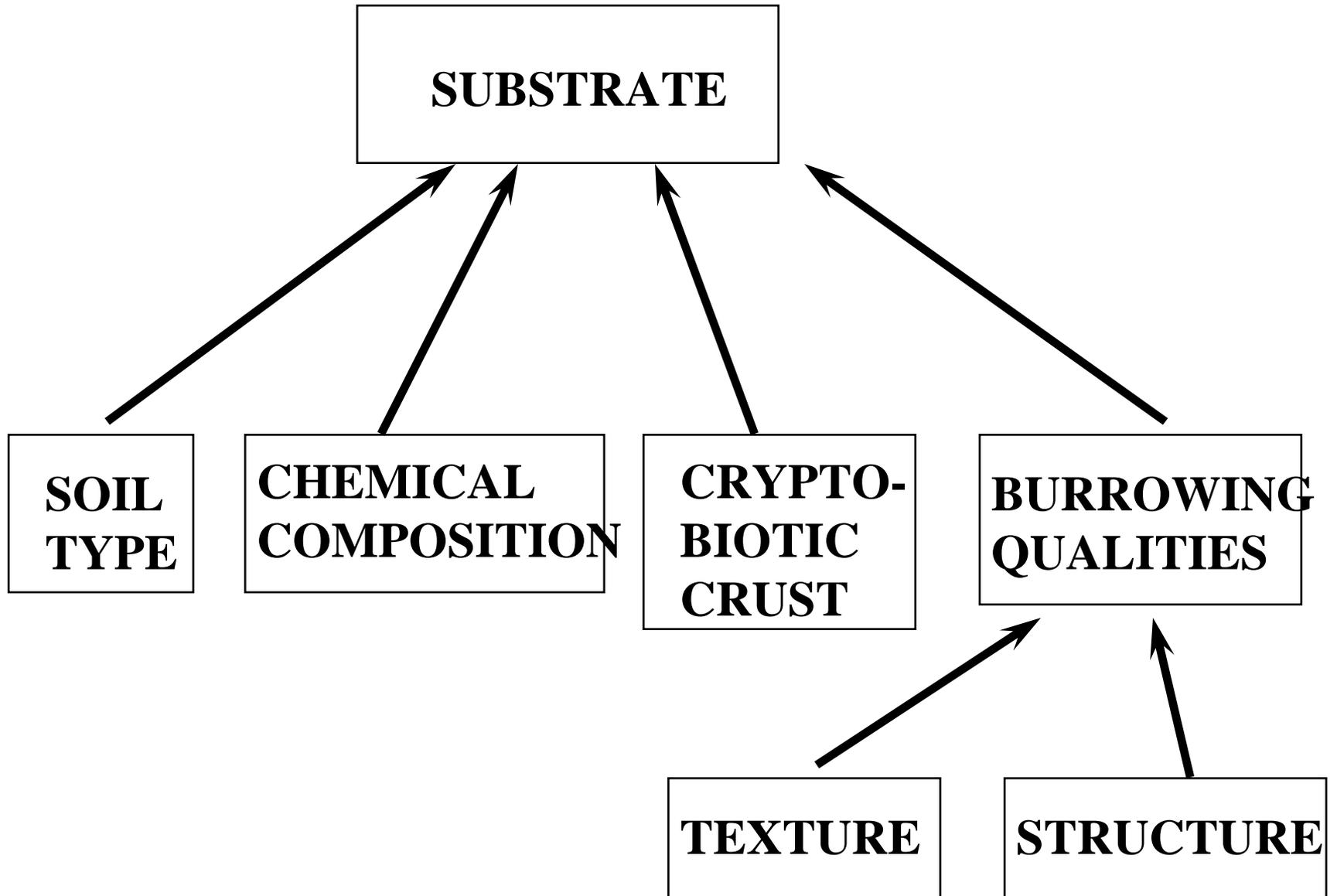
**ABIOTIC  
FACTORS**

**BIOTIC  
FACTORS**

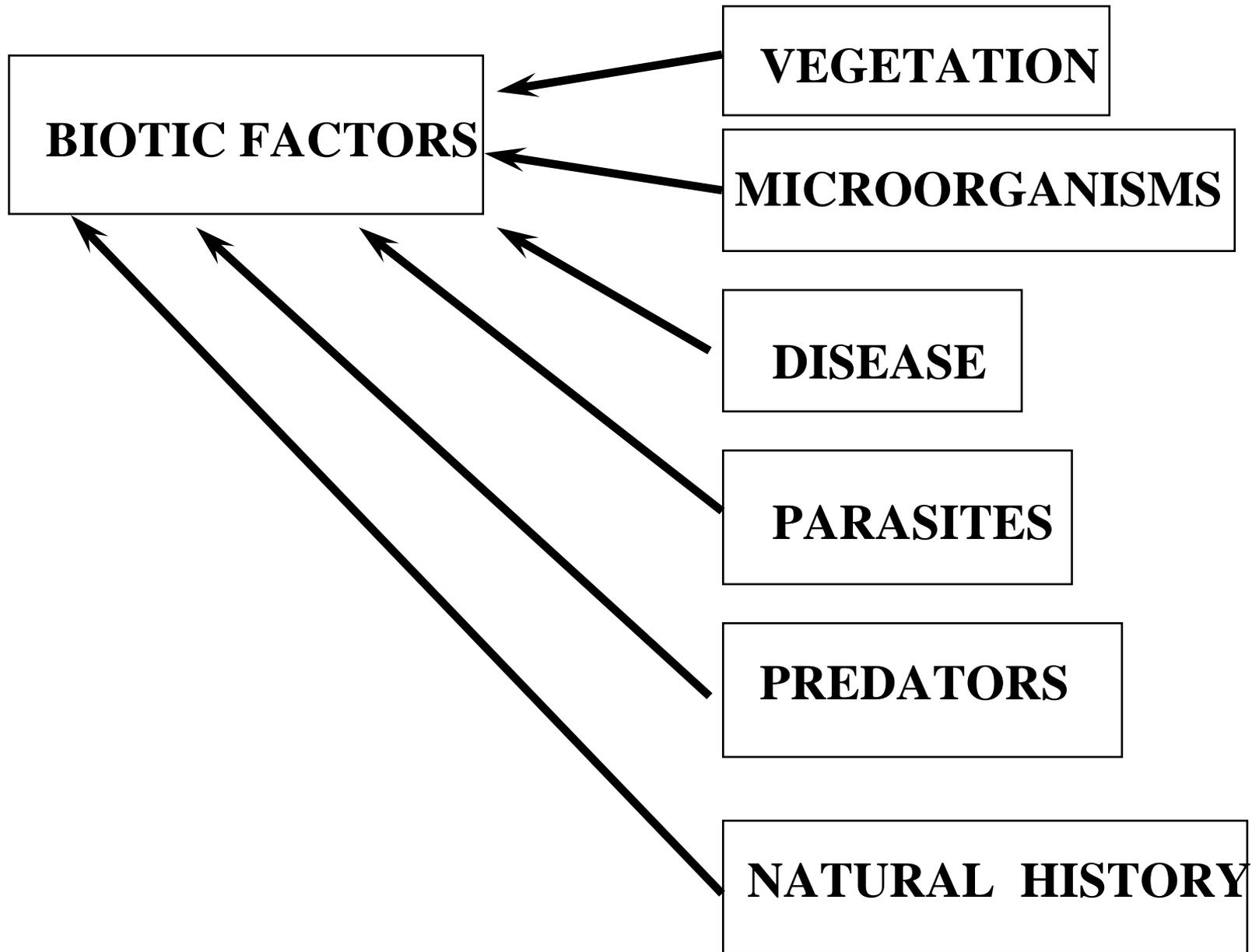
**DESERT  
TORTOISE  
POPULATIONS**

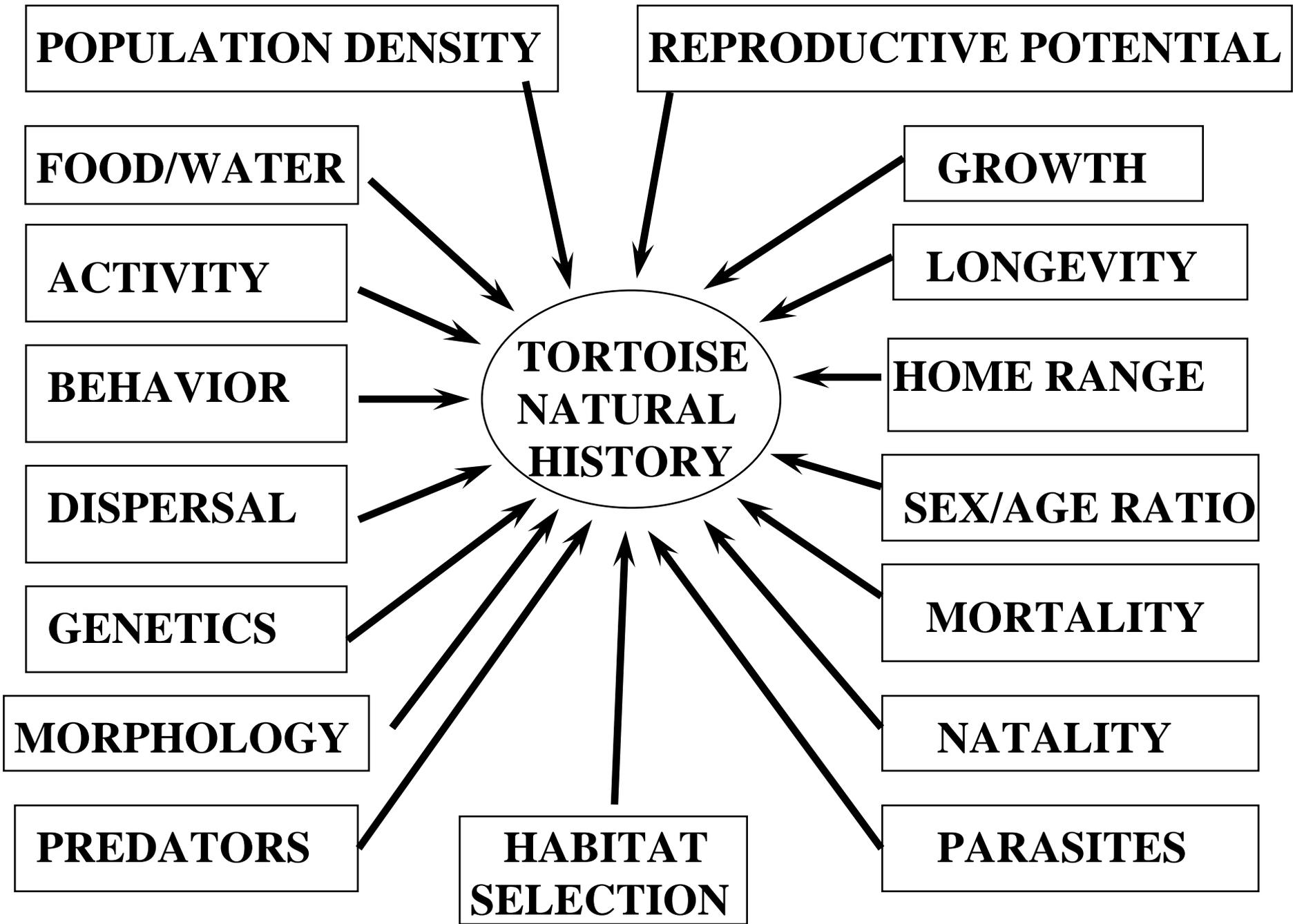


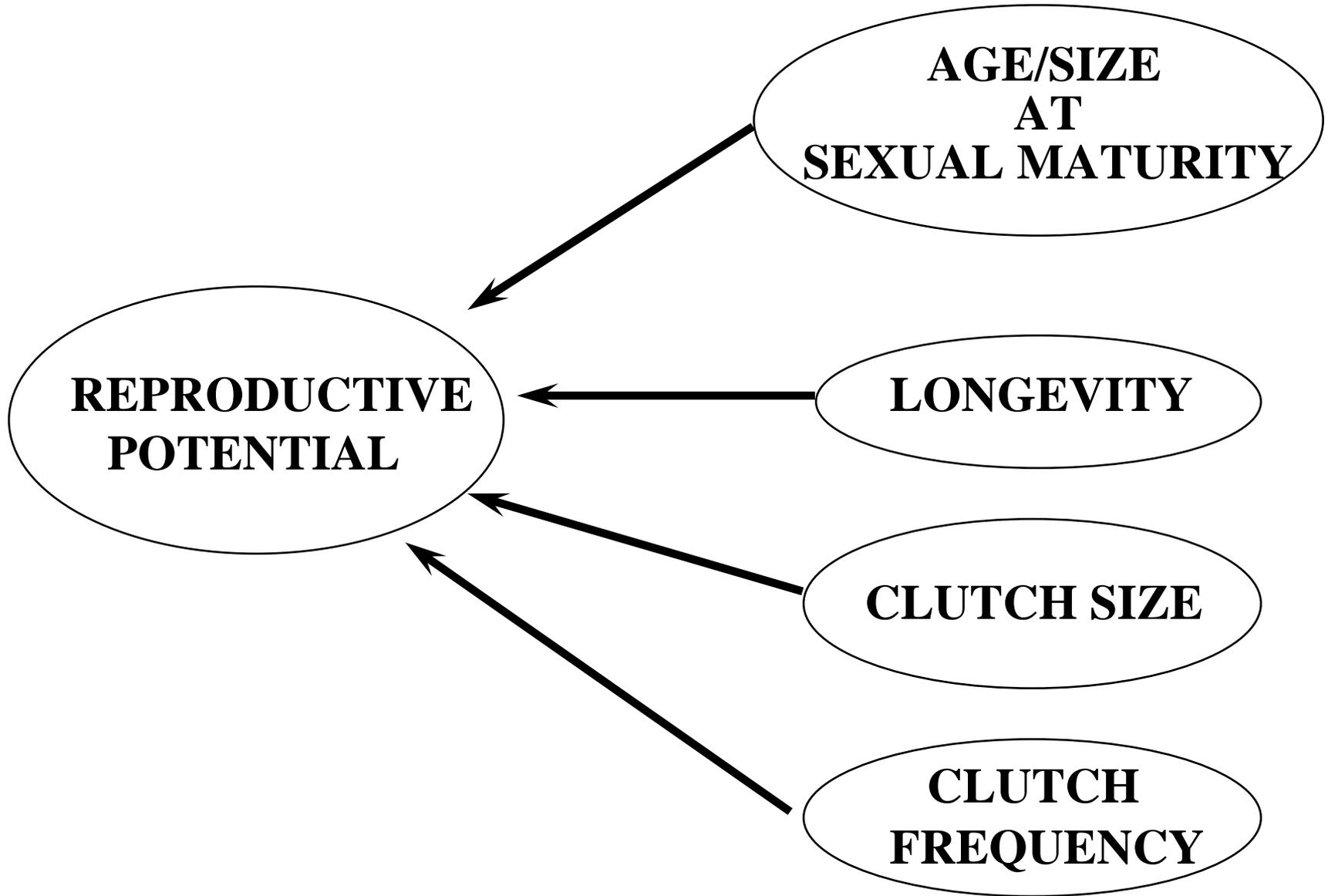




# DESERT TORTOISE HABITAT COMPONENTS







# HUMAN RELATED IMPACTS UPON DESERT TORTOISE POPULATIONS

**AGRICULTURE**  
**COLLECTION**  
**DESERTIFICATION**  
**DUMPS/LANDFILLS**  
**EXOTICS**  
**FIRE**  
**GRAZING**  
**GENETIC ISOLATION**  
**HABITAT**  
**FRAGMENTATION**  
**MINING**

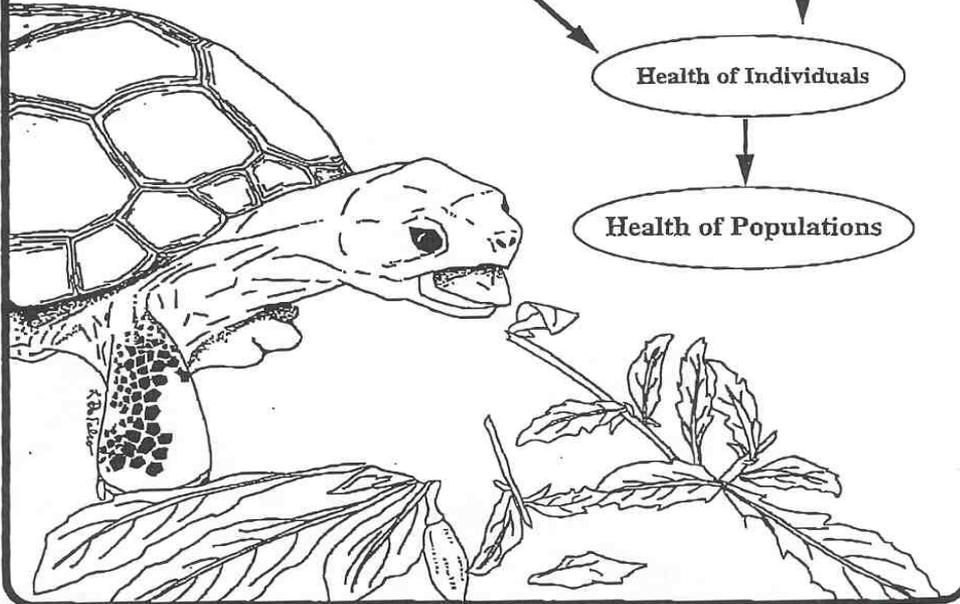
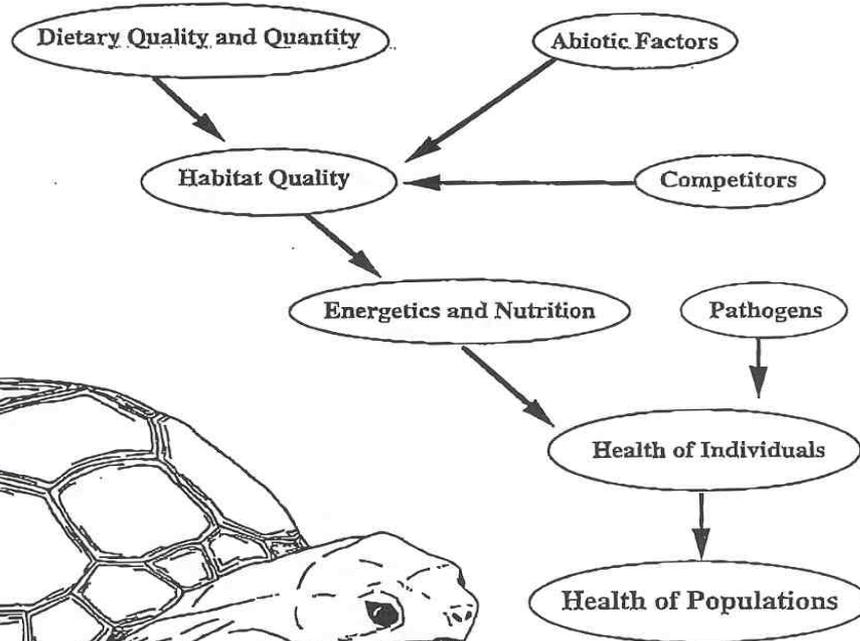
**TORTOISE**

**NOISE**  
**OHV'S**  
**POLLUTION**  
**RECREATION**  
**RELEASE OF**  
**CAPTIVES**  
**RESEARCHERS**  
**ROADS**  
**SHOOTING**  
**URBANIZATION**

*National Biological Service  
Desert Tortoise Nutrition Workshop*

*Zzyzx, California*

*October 26-29, 1995*



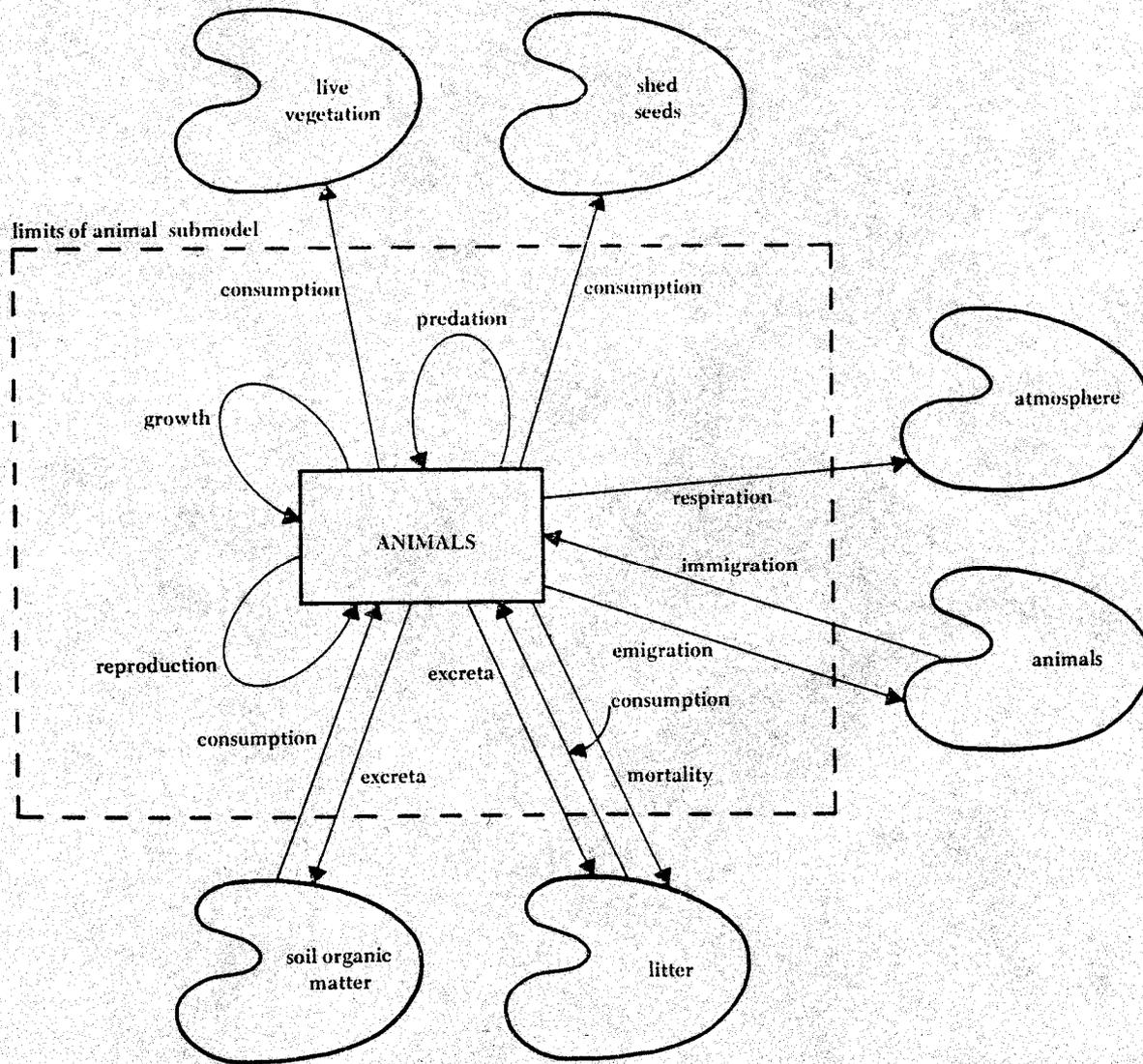


Figure 1. Processes in the animal models.

