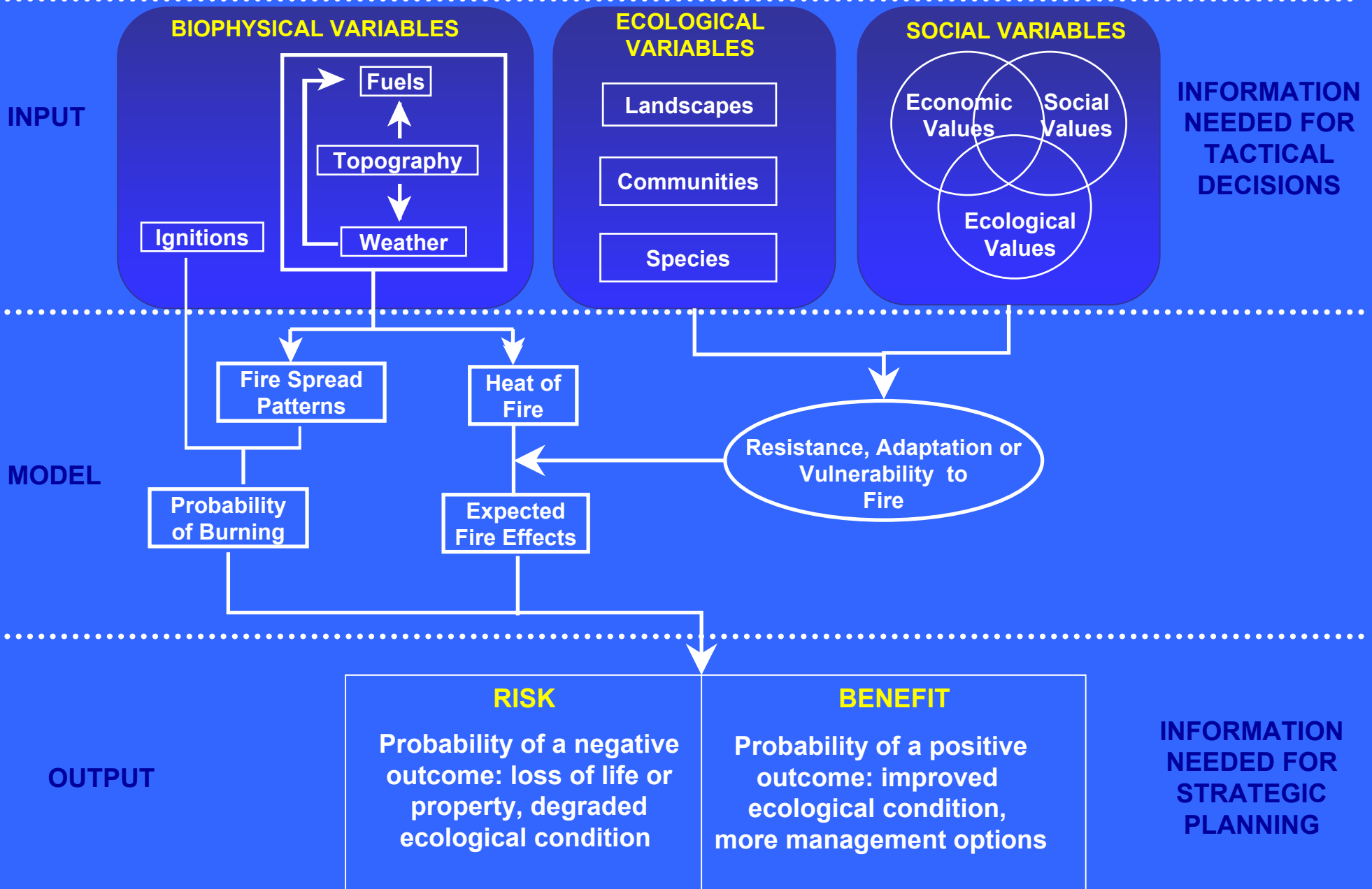


# Conceptual Model



# The physical process of fire is captured in a submodel of fire behavior and severity

**Probable  
Fire  
Behavior/  
Severity**

**ES**

**ECOLOGICAL  
VARIABLES**

Landscapes

Communities

Species

**SOCIAL VARIABLES**

Economic  
Values

Social  
Values

Ecological  
Values

Resistance, Adaptation or  
Vulnerability to  
Fire

Pr  
of Bu

cts

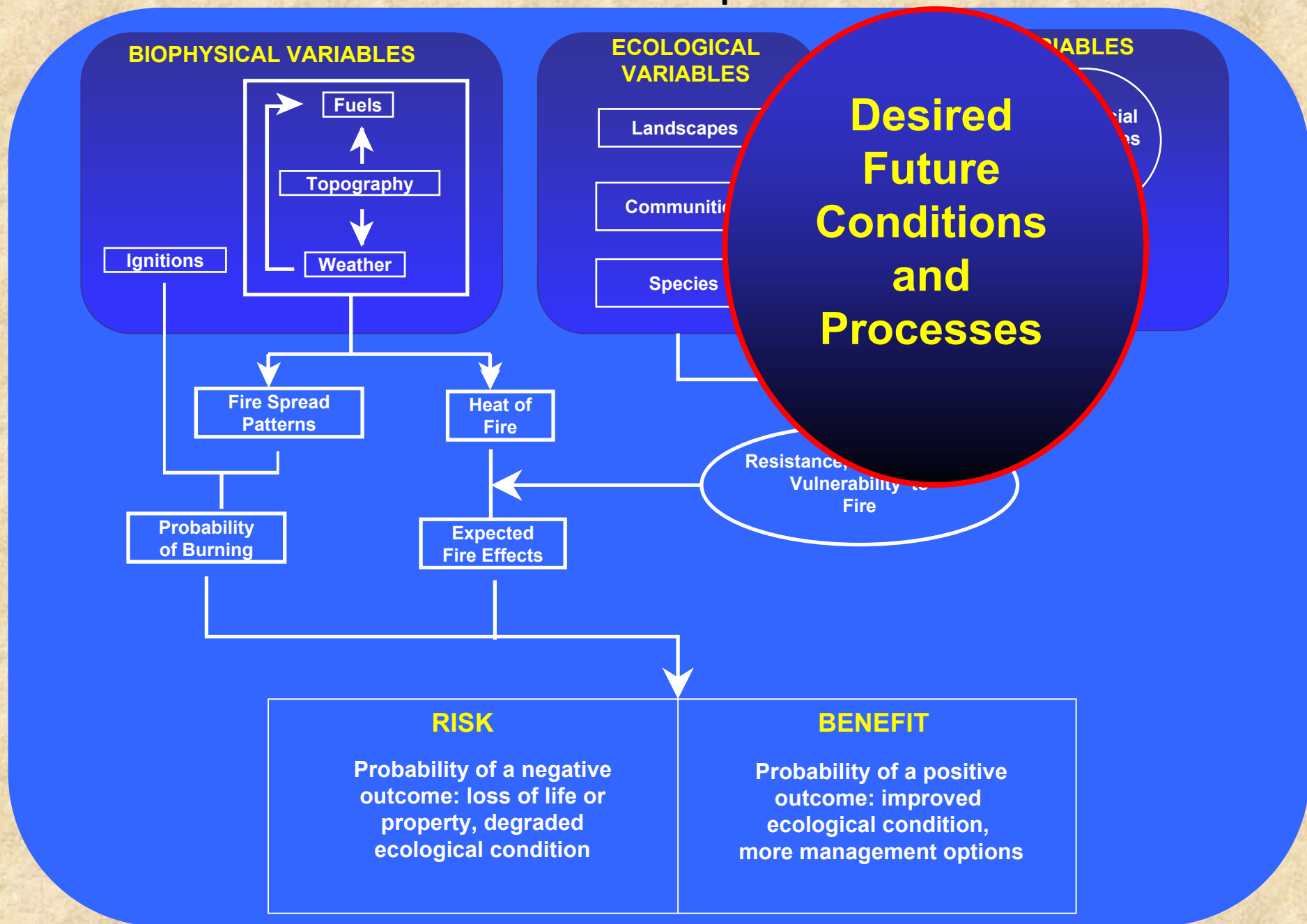
**RISK**

Probability of a negative  
outcome: loss of life or  
property, degraded  
ecological condition

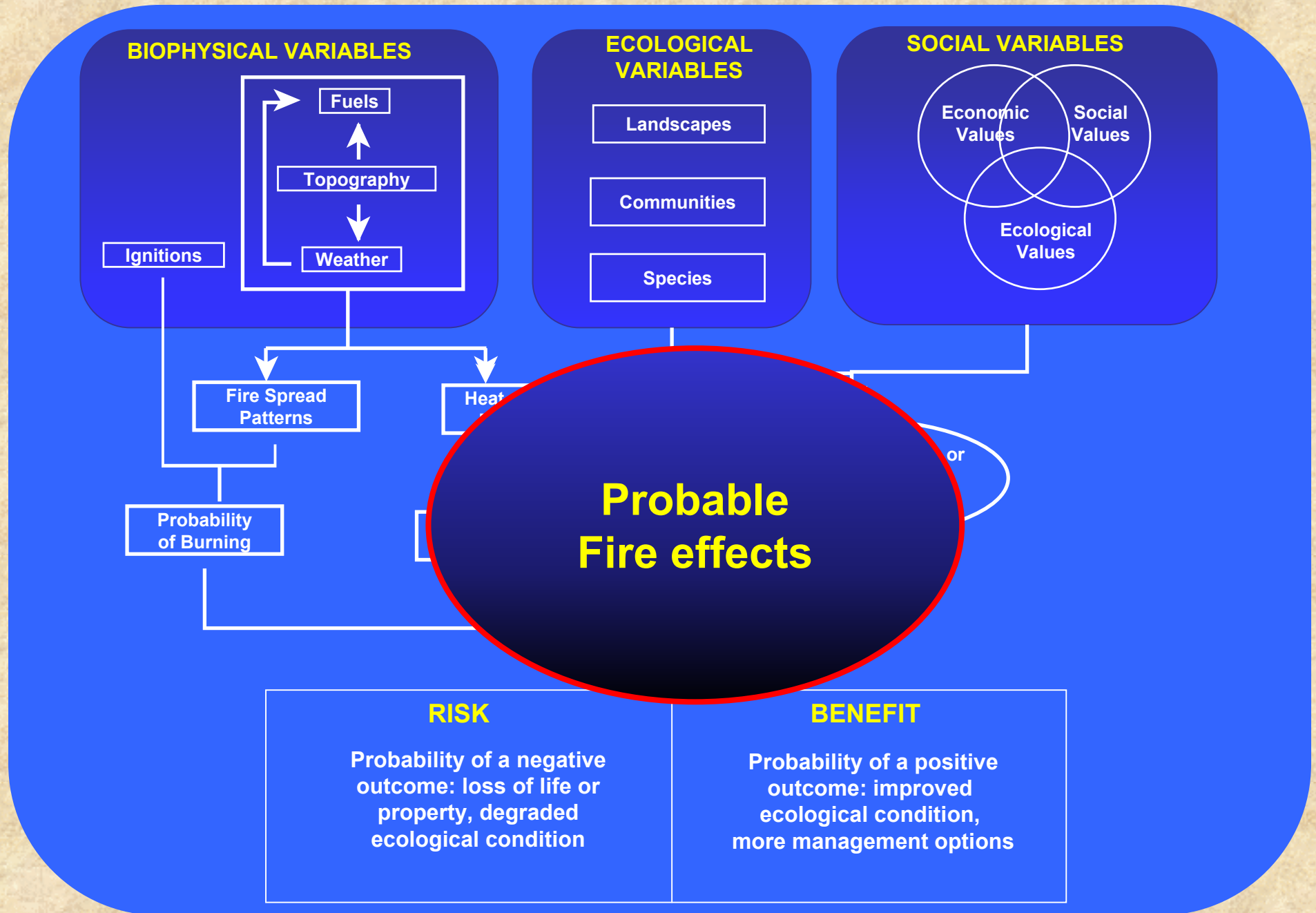
**BENEFIT**

Probability of a positive  
outcome: improved  
ecological condition,  
more management options

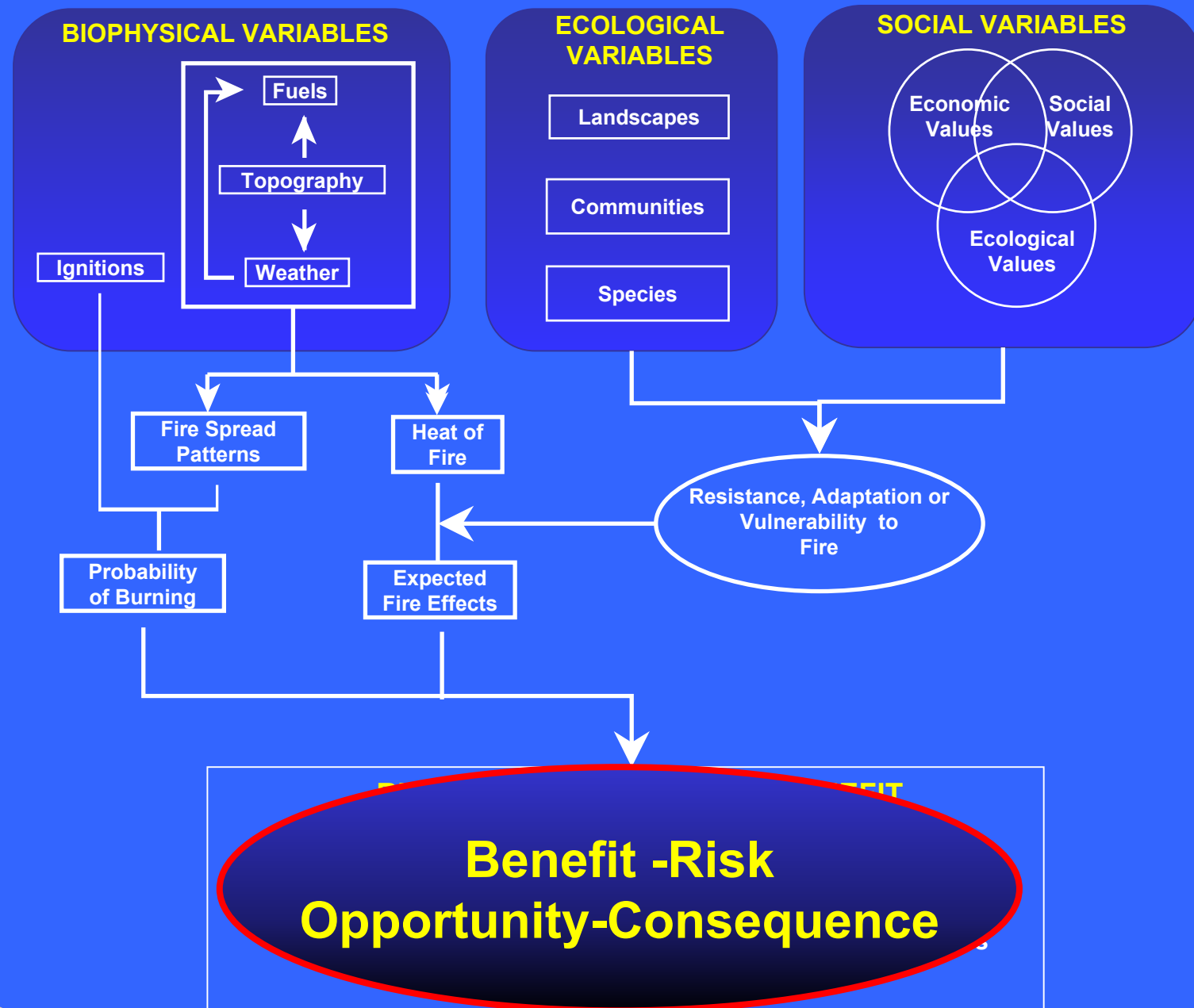
The intersection of social and ecological variables is modeled as a function of desired conditions, processes and outcomes, articulated in long-range planning documents and policies.



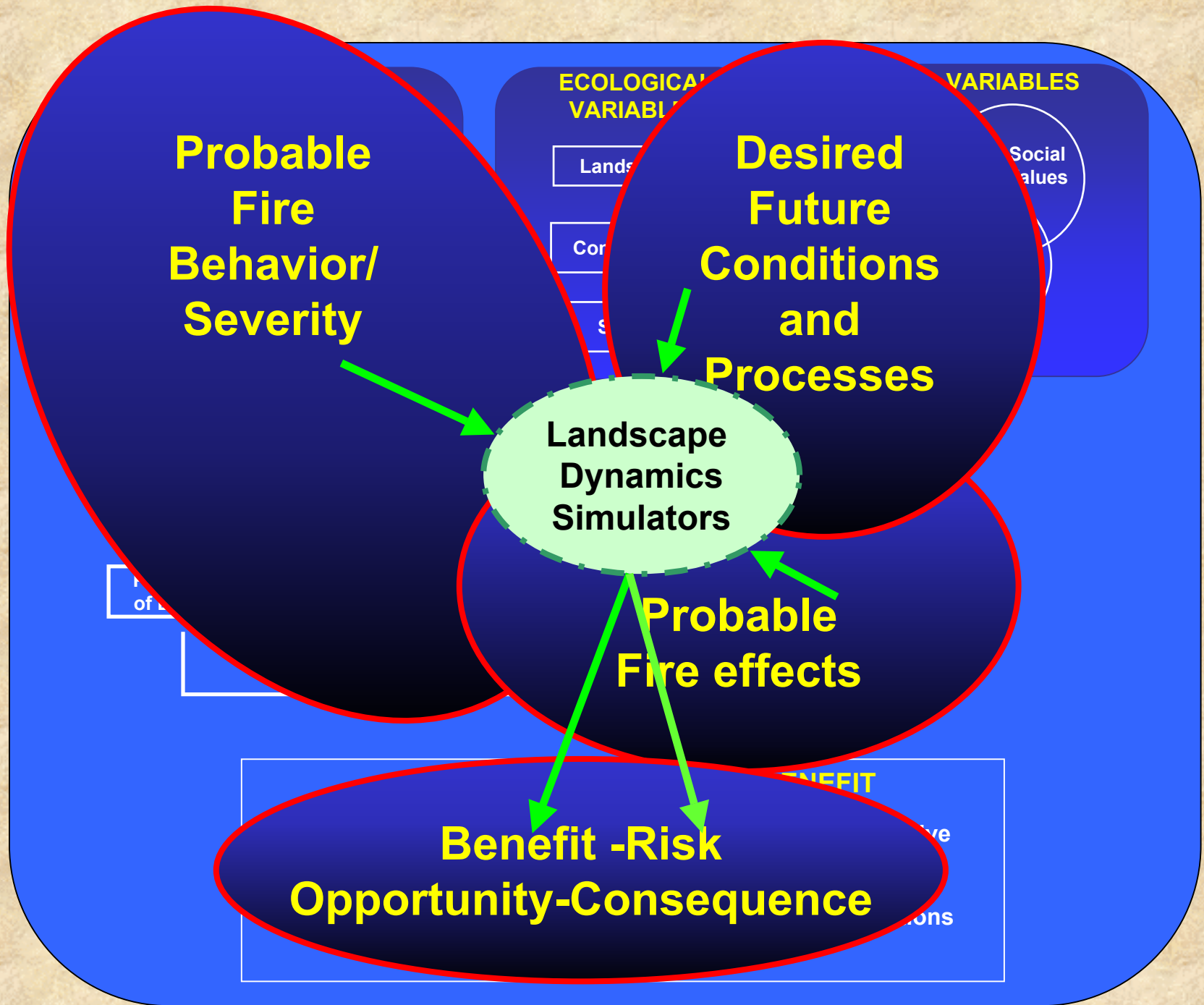
**Resiliency, vulnerability and adaptation are embedded in the fire effects module.  
Links between species and habitat characteristics are made here as well.**



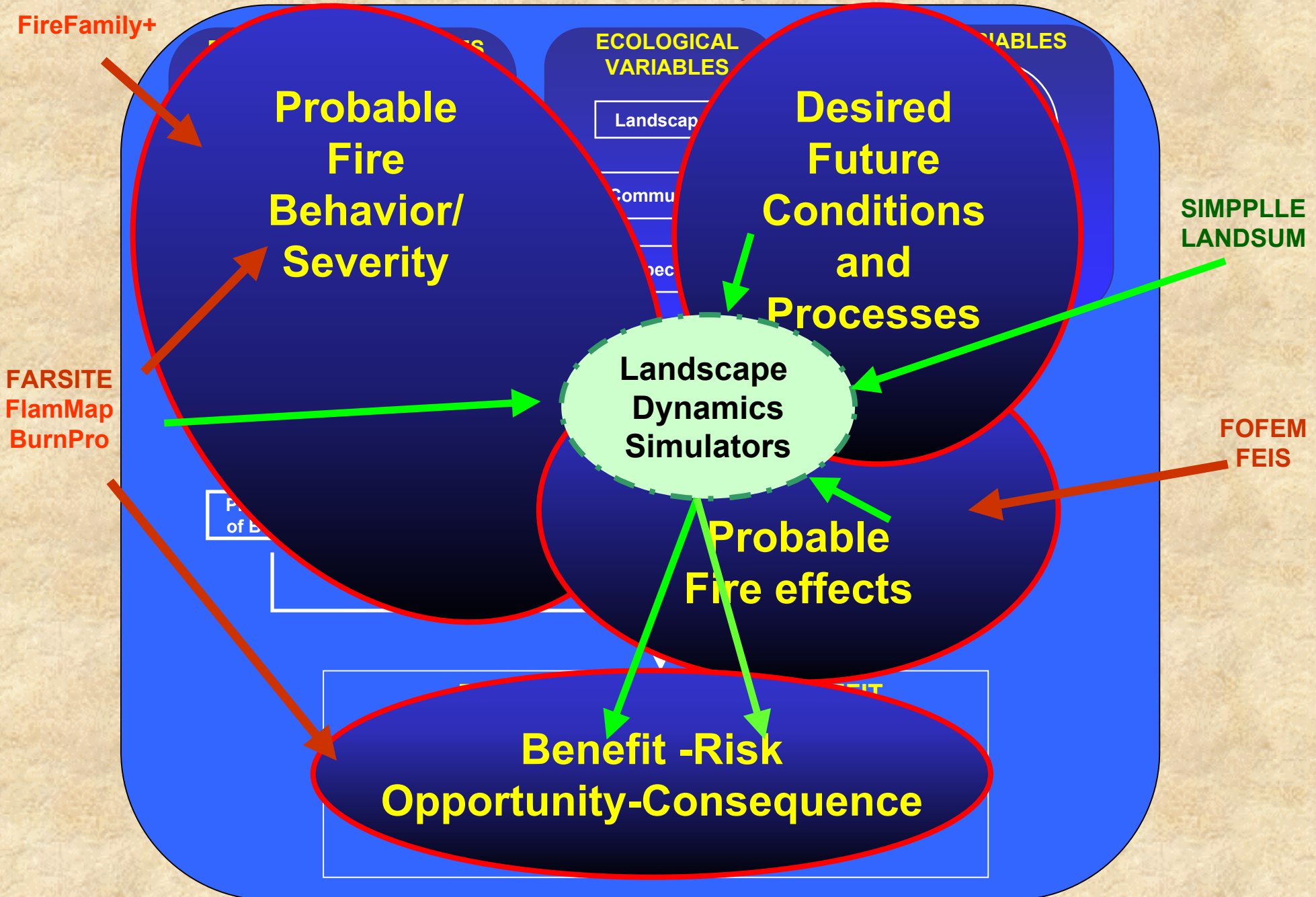
# Fire behavior and desired outcomes are combined with effects to create maps of opportunities and consequences of fire



# Landscape dynamics models are used to model future conditions



Our submodels use currently available programs and can accommodate any dataset or program. Here are those we have or are planning to use in demonstration projects.



# Benefits for Management

