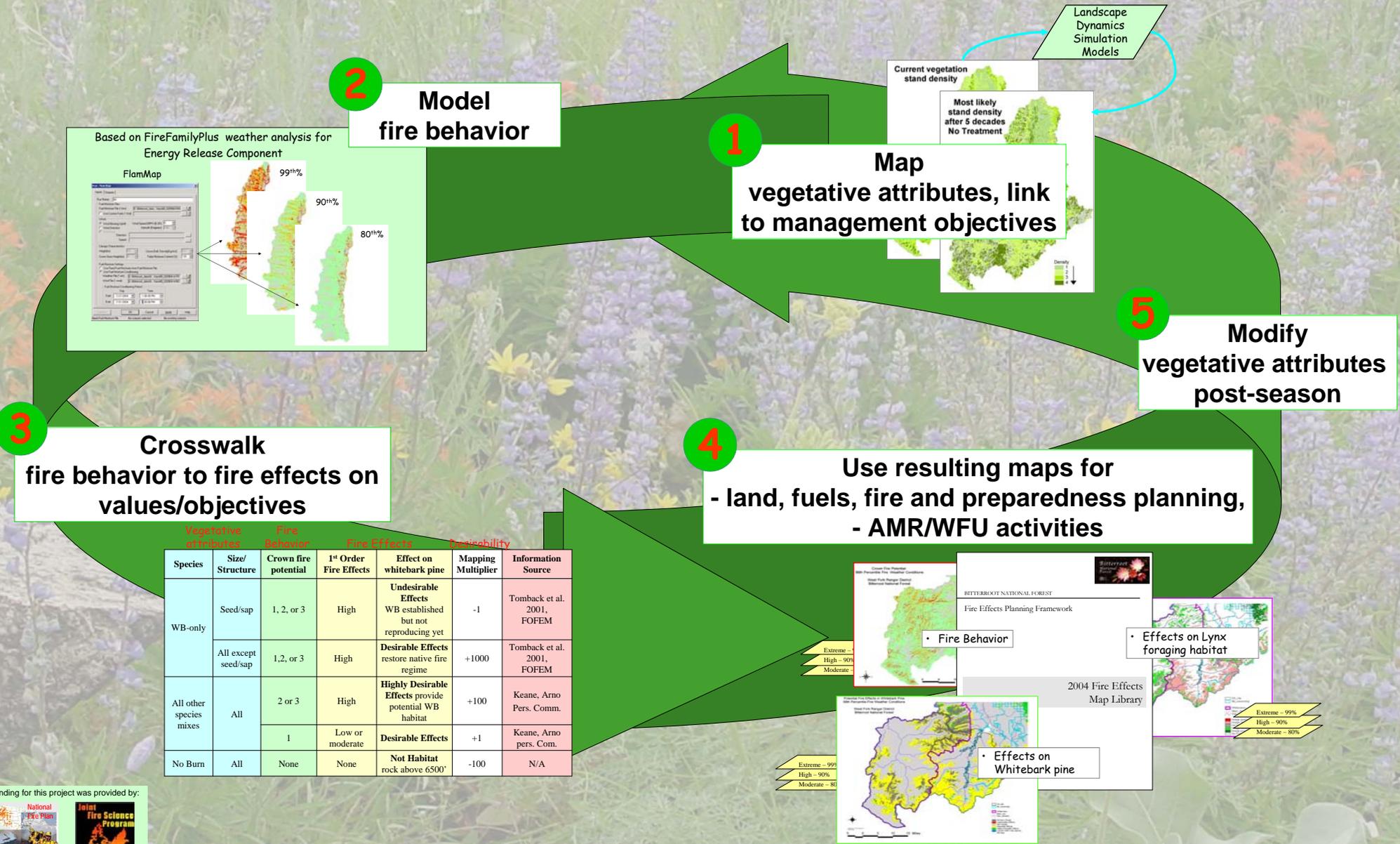


Fire Effects Planning Framework (FEPF)

Supporting fuels and fire activities by developing information of fire effects on management indicators and objectives

Anne Black, Carol Miller, Peter Landres

Aldo Leopold Wilderness Research Institute



Funding for this project was provided by:

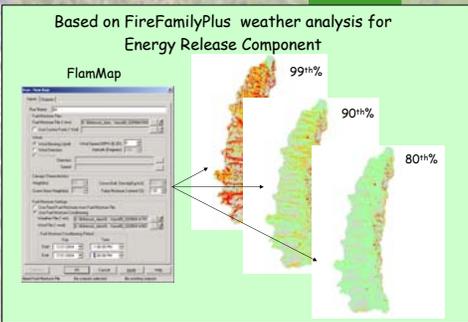
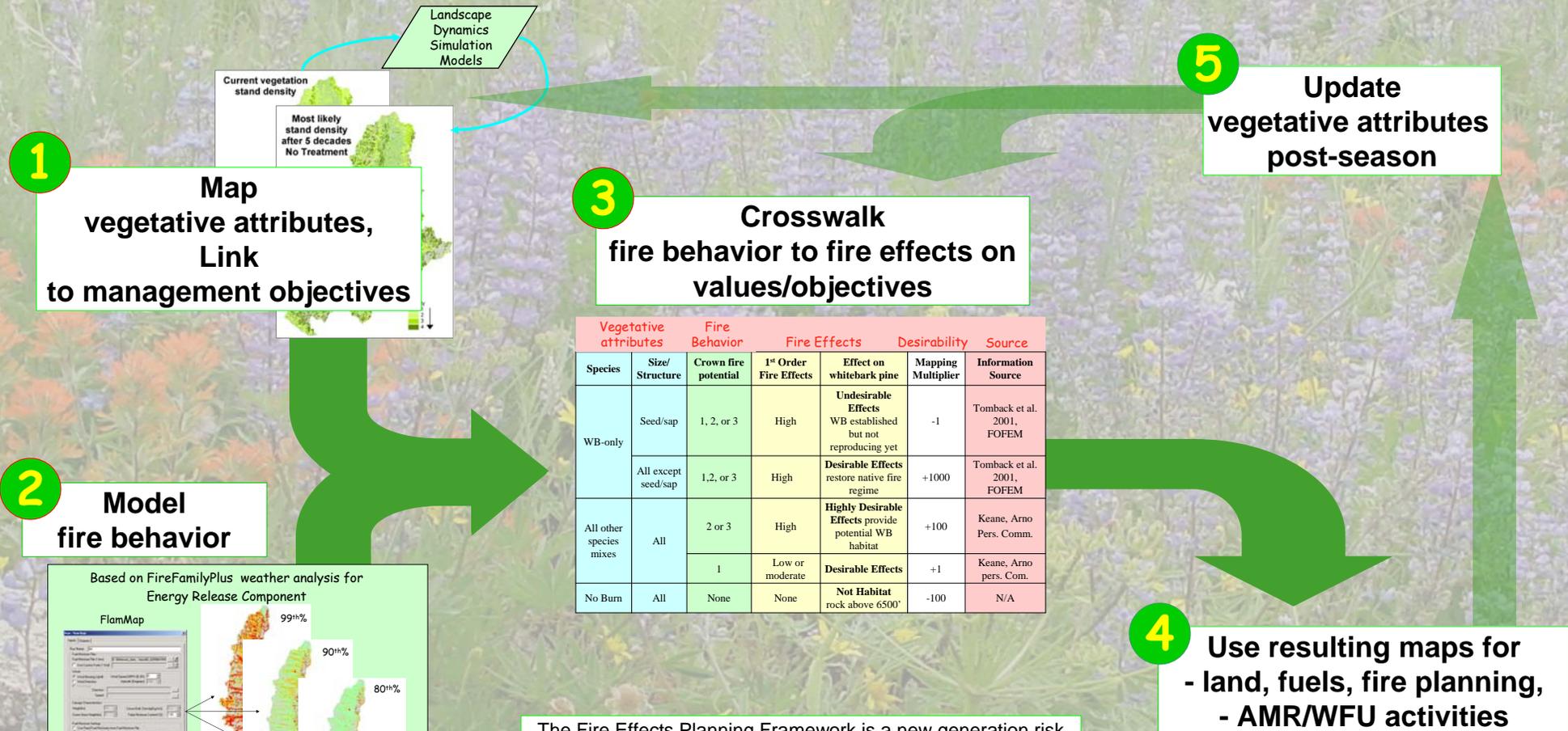


For more information, please visit:
http://leopold.wilderness.net/staff/projects/project_001.htm

Fire Effects Planning Framework (FEPF)

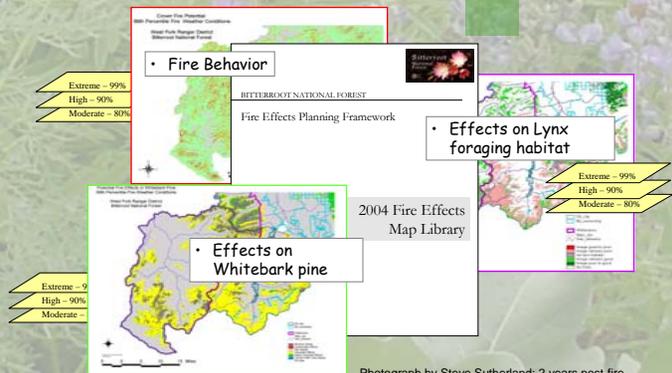
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The Fire Effects Planning Framework is a new generation risk assessment tool that provides simultaneous quantification of:

- risks *and* benefits
- in a spatial context
- in quantitative or qualitative measures
- tied directly to management objectives and targets, and
- across multiple time scales.



Funding for this project was provided by:

National Fire Plan
Joint Fire Science Program

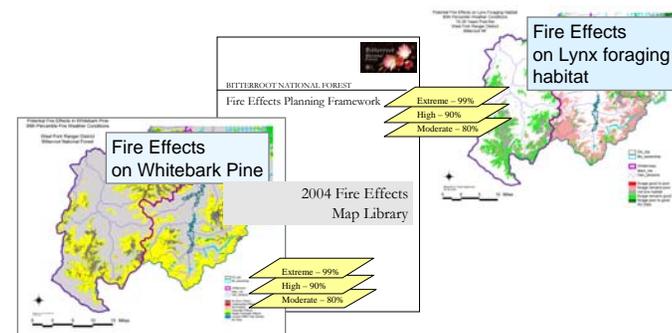
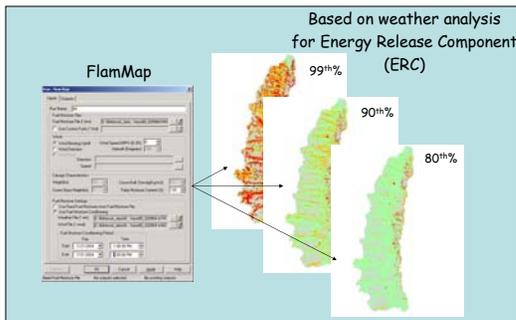
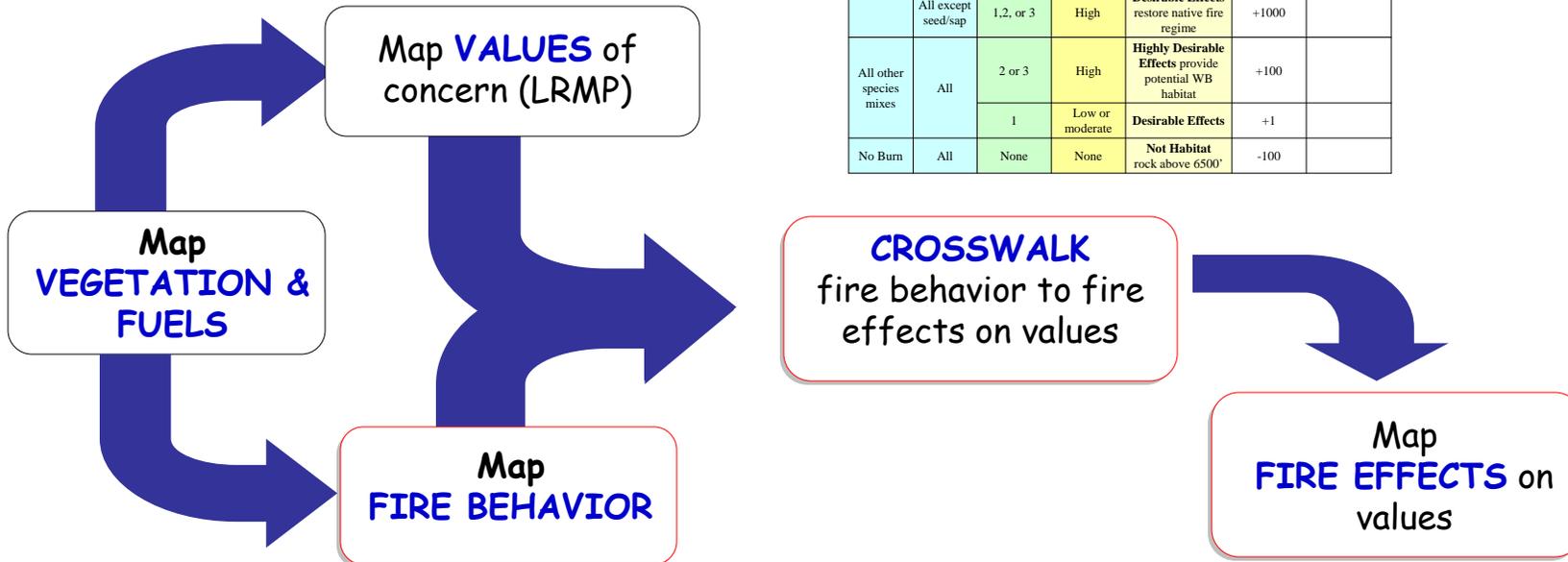
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Photograph by Steve Sutherland; 2 years post-fire

Fire Effects Planning Framework (FEPF)

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Species	Size/ Structure	Crown fire potential	1 st Order Fire Effects	Benefits/Risks to whitebark pine	Mapping Multiplier	Information Source
WB-AL- AF mix, and WB- ES-AF mix	All	2 or 3	High	Desirable Effects WB to outcompete other conifers	+1	citation
		0 or 1	Low or Moderate	Highly Desirable Effects favor late successional WB	+100	
WB-only	Seed/sap	1, 2, or 3	High	Undesirable Effects WB established but not reproducing yet	-1	FOFEM
	All except seed/sap	1, 2, or 3	High	Desirable Effects restore native fire regime	+1000	
All other species mixes	All	2 or 3	High	Highly Desirable Effects provide potential WB habitat	+100	
		1	Low or moderate	Desirable Effects	+1	
No Burn	All	None	None	Not Habitat rock above 6500'	-100	

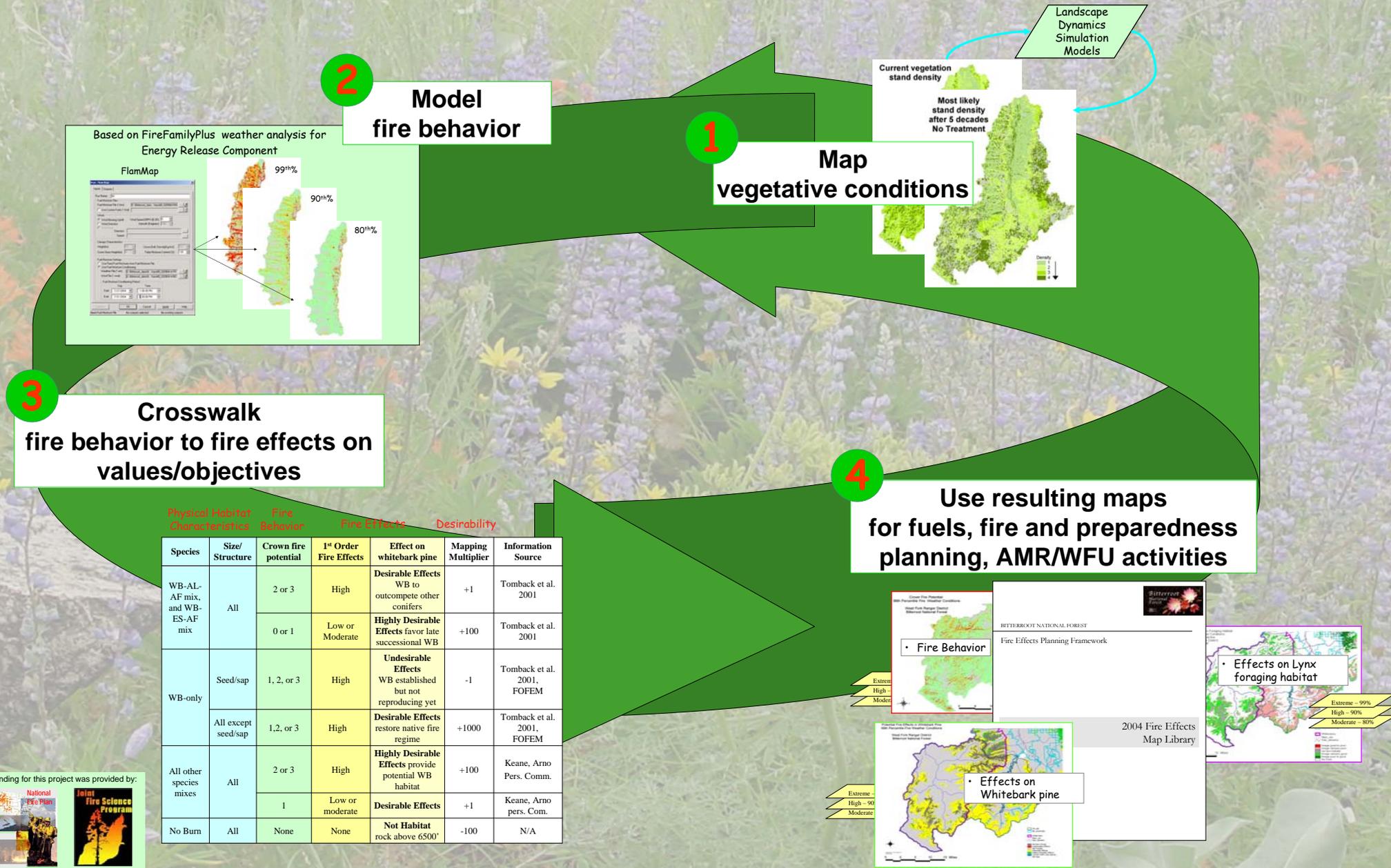


Fire Effects Planning Framework (FEPF)

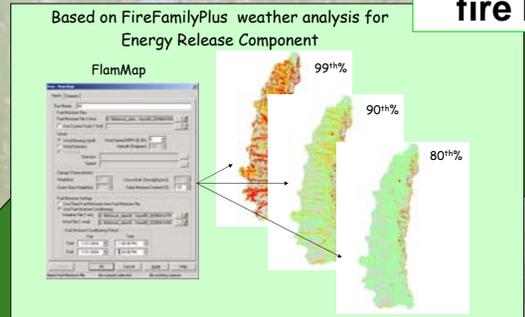
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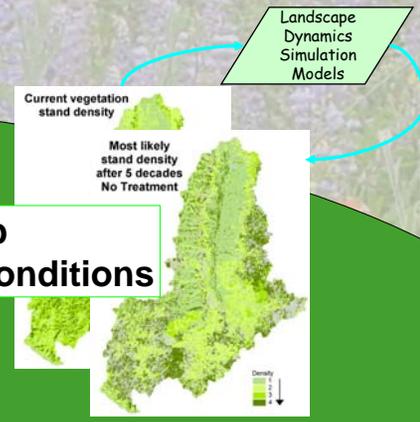
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2 Model fire behavior



1 Map vegetative conditions

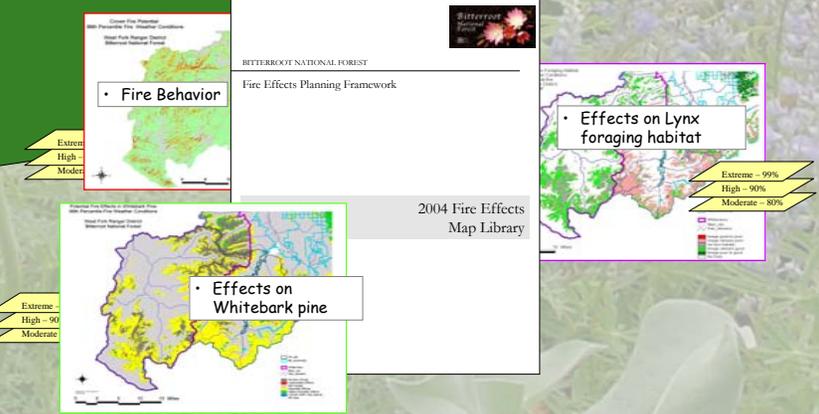


Landscape Dynamics Simulation Models

3 Crosswalk fire behavior to fire effects on values/objectives

Species	Size/Structure	Crown fire potential	1 st Order Fire Effects	Effect on whitebark pine	Mapping Multiplier	Information Source
WB-AL-AF mix, and WB-ES-AF mix	All	2 or 3	High	Desirable Effects WB to outcompete other conifers	+1	Tomback et al. 2001
		0 or 1	Low or Moderate	Highly Desirable Effects favor late successional WB	+100	Tomback et al. 2001
WB-only	Seed/sap	1, 2, or 3	High	Undesirable Effects WB established but not reproducing yet	-1	Tomback et al. 2001, FOFEM
		All except seed/sap	1,2, or 3	High	Desirable Effects restore native fire regime	+1000
All other species mixes	All	2 or 3	High	Highly Desirable Effects provide potential WB habitat	+100	Keane, Arno Pers. Comm.
		1	Low or moderate	Desirable Effects	+1	Keane, Arno pers. Com.
No Burn	All	None	None	Not Habitat rock above 6500'	-100	N/A

4 Use resulting maps for fuels, fire and preparedness planning, AMR/WFU activities



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