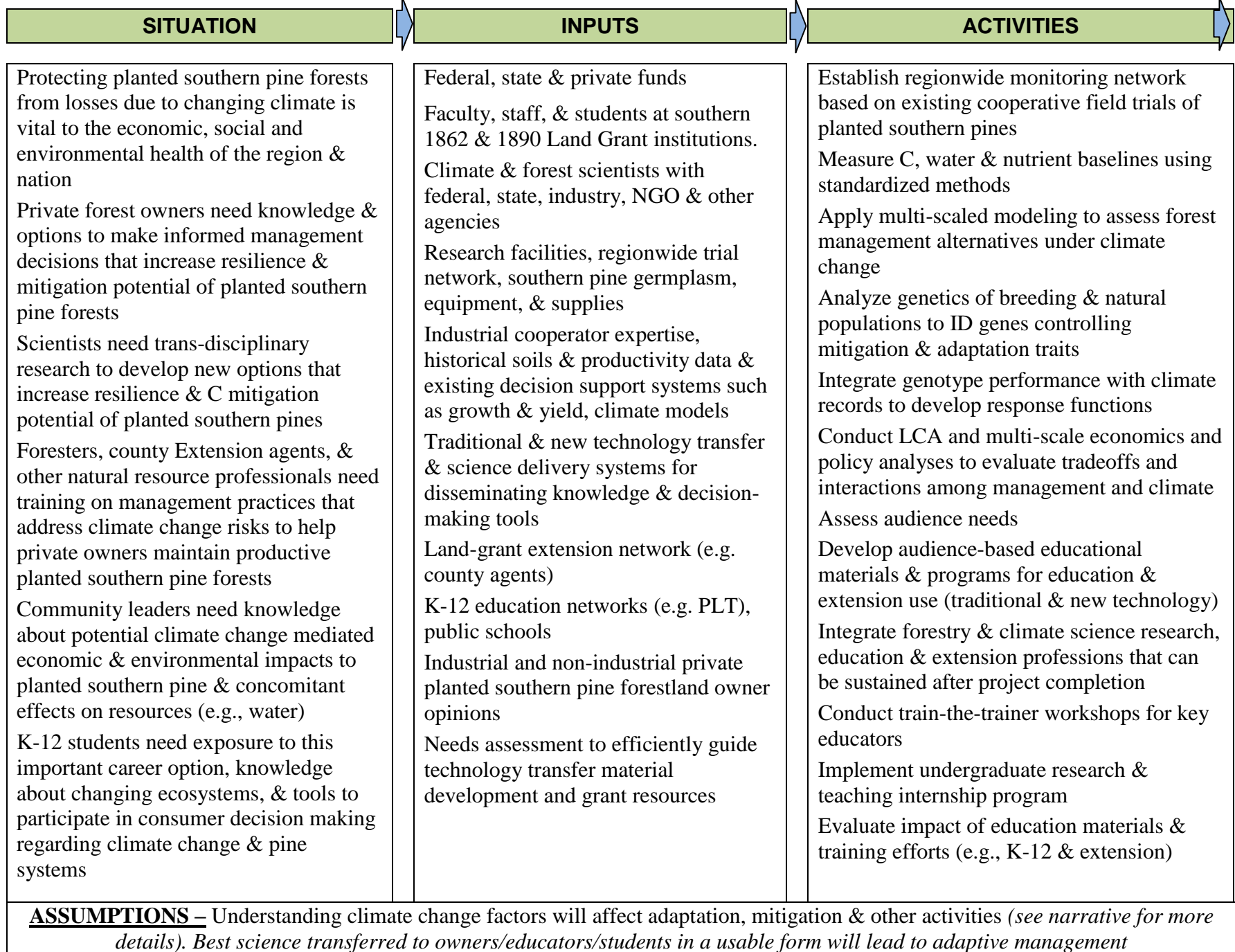


**Logic Model: Regional Approaches to Climate Change: Southern Conifer CAP**



OUTPUTS	OUTCOMES		
	Knowledge	Actions	Conditions
<p>Regional C, H<sub>2</sub>O, &amp; N baselines</p> <p>Improved growth &amp; yield models with climate variables, C balance</p> <p>Improved process &amp; hybrid models parameterized from network measurements</p> <p>Regional market impacts modeled based on business-as-usual assumptions with risks of increased disturbance and altered management that increases mitigation and resilience</p> <p>Complete LCA of C, H<sub>2</sub>O, nutrient, &amp; energy footprint of alternative management scenarios under varying sub regional, ownership &amp; climate conditions</p> <p>Open source decision support system with C management, economics, genetics res. results</p> <p>“One stop” web presence for info. on southern pine climate change mitigation &amp; adaptation</p> <p>Graduated students &amp; postdocs prepared to address trans-disciplinary forestry &amp; climate sciences issues</p> <p>Environmental ed. curriculum provides accessible info. to teachers, youth and general public</p>	<p>Audiences learn new feedstock selection, moisture &amp; nutrient management strategies, &amp; market options</p> <p>Stakeholders learn new DSS &amp; stand level management strategies</p> <p>Leaders learn new life cycle analyses &amp; the economic, social, &amp; resources compromises associated with climate change &amp; southern pine management policies &amp; practices.</p> <p>Youth (via informed teachers) learn new climate science, planted southern pine adaptation/mitigation information &amp; how consumers affect forests &amp; climate.</p> <p>Educators gain competence in climate &amp; forest science &amp; LCA</p> <p>Scientists learn important details about the planted southern pine ecosystem from field application &amp; experiences</p> <p>Scientists learn how to better conduct trans-disciplinary research</p>	<p>Practitioners adopt new guidelines, techniques, &amp; technologies &amp; disseminate these to clientele</p> <p>Private forest owners establish &amp; manage using new guidelines, technologies, &amp; adaptive strategies for short- and long- term , which includes enhanced management, species selection or better adapted germplasm</p> <p>Teachers increase their competence &amp; teaching related to climate, carbon &amp; planted southern pine ecosystems</p> <p>Community leaders &amp; consumers utilize LCA, economic analyses &amp; other research results in decision making</p> <p>Southern planted pine &amp; climate science research, education &amp; outreach professionals &amp; communities become integrated</p> <p>Teachers/environmental educators deploy new materials related to climate adaptation &amp; mitigation in the region</p>	<p>Improved economic return or reduction of loss from catastrophic events, and/or conservation of planted pine forests</p> <p>Increased forest carbon sequestration and N use efficiency</p> <p>Enhanced capacity for regional, trans-disciplinary collaboration among climate and forest scientists, extension &amp; education professionals</p> <p>Increased capacity for NIPF participation in C markets or to deploy adaptive strategies to insure the sustainability of planted southern pines in advance of climatic changes</p> <p>Climate-smart audiences making informed decisions relating to the planted southern pine system &amp; consumption of forest products</p> <p>Landowners/K-12 Teachers/students have a clearer idea of adaptive strategies and their role in climate change mitigation in the southeastern US</p>

**EXTERNAL FACTORS** – Availability & interest of key participants who are not directly funded by the project (*see narrative for more details*) *Unforeseen geo-political events that may advance or diminish the goals of this effort.*