






Strategic Initiatives– Initiative Themes for work and Grand Challenges

SI		Initiative Themes		Grand Challenges
Pests – Endemic and Invasive Pests and Diseases (EIPD)				
	<input type="checkbox"/> Keeping invasive pests and pathogens out of California <input type="checkbox"/> New problems with existing pests and diseases <input type="checkbox"/> Integrated management	<input type="checkbox"/> Emerging pests (e.g., Citrus Greening) <input type="checkbox"/> The public understanding the role of science in safe and effective pest management (e.g., urban and household pesticide use relative to use on other systems) <input type="checkbox"/> Pursuing new technologies for existing pests (e.g., breeding for powdery mildew)		
Healthy Families and Communities (HFC)				
	<input type="checkbox"/> Food Literacy and Healthy Lifestyles <input type="checkbox"/> Scientific Literacy (youth and adult) <input type="checkbox"/> Positive Youth Development <input type="checkbox"/> Community Development and Public Policy	<input type="checkbox"/> Chronic disease and Food insecurity across the lifespan of all Californians <input type="checkbox"/> Delivery of high-quality positive youth development in all communities <input type="checkbox"/> Rising social, economic and health inequality <input type="checkbox"/> Access to science education and professional learning opportunities		
Sustainable Food Systems (SFS)				
	<input type="checkbox"/> Sustainable production <input type="checkbox"/> Safe processing <input type="checkbox"/> Enhanced access	<input type="checkbox"/> Sustainable Production: Labor scarcity; Dealing with regulatory requirements; Water - quantity and quality; Farm Prices; Climate change; Emerging pests <input type="checkbox"/> Safe Food Processing: Food safety and preservation <input type="checkbox"/> Enhanced Food Access: Food deserts and cost; Changing food preferences; Food access and security for aging seniors		

Prepared with input from SI leaders and Panels (2019) UC ANR

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Sustainable Natural Ecosystems (SNE)			
	<ul style="list-style-type: none"> <input type="checkbox"/> Healthy rangelands, forests and working landscapes <input type="checkbox"/> Fighting Fire – Resilient forests and fire-safe urban areas <input type="checkbox"/> Protecting where we live. Healthy landscapes and urban forests <input type="checkbox"/> Enhancing our water supply 		<ul style="list-style-type: none"> <input type="checkbox"/> Fire <input type="checkbox"/> Land use policy <input type="checkbox"/> Protecting water supplies - quality and quantity <input type="checkbox"/> Climate change
Water - Quality, Quantity and Security			
	<ul style="list-style-type: none"> <input type="checkbox"/> Safe & secure drinking water <input type="checkbox"/> Safe & secure surface water <input type="checkbox"/> Safe & sustainable groundwater <input type="checkbox"/> Holistic water management 		<ul style="list-style-type: none"> <input type="checkbox"/> Conservation and enhancement strategies to bolster water resources and meet increasing agricultural, urban, and ecosystem water demands <input type="checkbox"/> Sustainable farm, urban, and natural resource management practices to protect soil and water quality from salinity, sediment, pathogens, excess nutrients, trace elements, and other contaminants <input type="checkbox"/> Quantifying the impacts of climate change on California's precious water resources and consequent impacts on agriculture, urban, and ecosystems, while seeking ways to make these sectors more resilient to climate related risks