






Strategic Initiatives– Focal Areas for work and Grand Challenges

| SI | Focal Areas | 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"/> Promoting healthy behaviors for childhood obesity prevention <input type="checkbox"/> Encouraging and enhancing youth science literacy <input type="checkbox"/> Promoting positive youth development <input type="checkbox"/> Community Development | <input type="checkbox"/> Childhood obesity <input type="checkbox"/> Safe drinking Water - Outdated infrastructure and unreliable water supply <input type="checkbox"/> K-12 Education - Low, unstable funding and poor student performance <input type="checkbox"/> Public safety |
| 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"/> Drought preparedness <input type="checkbox"/> Sustainable groundwater management <input type="checkbox"/> Options for increasing use of low quality water in agricultural and urban environments <input type="checkbox"/> Lessen impacts from nitrogen use in agricultural and urban environments <input type="checkbox"/> Water management strategies in response to climate change and their impacts on water supply, water quality and cropping patterns |