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Title: Expanding the Pie: Identifying Opportunities to Address Impacts from Procurement

Abstract: A recent study completed for Alameda County finds that the production of goods and services purchased by the County results in over three times the climate impact as compared to the County's greenhouse gas emissions inventory of government operations. The large scale of these supply chain impacts present an opportunity for bold action that can reduce the local and global environmental and health impacts related to delivering the critical government services it provides. This presentation will provide an overview of the study methodology, findings summary and strategies to reduce the County's supply chain impacts, as outlined below. **Methodology** The study, completed by Good Company, uses the U.S. Environmental Protection Agency's United States Environmentally Extended Input/Output (USEEIO) data model to estimate the supply chain impacts related to the County's fiscal year 2015 expenditures across six sustainability metrics: greenhouse gases, particulate matter, ozone, acid rain, human toxicity, and water use. County purchases considered in the Spend Analysis include procurement of all material goods, food, utility services, and professional services used in the course of County operations. It also includes expenditures on community-based services which are procured by the County to perform the critical function of providing the social safety net for its community. **Findings Summary** Across the impact metrics included in this report, two purchasing categories represent between 60-80% of the County's supply chain impacts:

- Professional services
- Construction and maintenance of public facilities and infrastructure

Within professional services, the greatest impacts are the result of vendor use of electricity, fuel, freight services, and the production of meat and dairy products. Within construction, the greatest impacts are the result of vendor vehicle and equipment fuel use, and the production of building materials.

Strategies to Reduce Impacts The County and its vendors can partner to reduce impacts in these opportunity areas by targeting discrete high-impact vendor activities that can reduce the County's supply chain impacts, including:

- Installation of energy efficient building equipment and energy conservation
- Purchase of renewable electricity
- Electrification of vehicles, both owned passenger vehicles and contracted freight
- Substitution of low-impact building materials (e.g. low-carbon cement substitutes)
- Reduce the wasting of edible food (especially meat and dairy)
- Substituting low-impact foods for high-impact foods (e.g. plant-based protein for beef)