

required to cover the costs of infrastructure development, equipment procurement, operational expenses, and training programs.

- Grants or Sponsorships: Seek financial support from government agencies, foundations, private organizations, or corporate sponsors interested in promoting sustainable agriculture and improving school meals.

**3. Organizational Resources**

- Collaboration: Establish partnerships and collaborations with local schools, government agencies, agricultural organizations, and relevant stakeholders to leverage their expertise, support, and resources.

Coordinate the efforts of the project team, stakeholders, and partners to ensure smooth implementation.

**3. Site Preparation and Infrastructure Development:**

Engage in activities such as land clearing, site preparation, construction of greenhouse structures or indoor growing facilities, installation of hydroponics tables or vertical systems, and setting up necessary equipment, irrigation systems, lighting, and climate

**3. Supply of Fresh Produce:** The project aims to supply the public school system through its food service program food with locally grown fresh lettuce produce, with a targeted production of 400 lbs of lettuce. Once accomplished, the tangible outcome will be a regular and reliable supply of hydroponically grown vegetables and herbs for use in school meals.

**4. Training Materials and Programs:** The project will develop training materials and conduct training programs for school staff, farmers, and stakeholders.

productivity can help meet the growing demand for food.

**2. Increased Availability of Fresh Produce:** The project's activities and outputs are expected to lead to an immediate increase in the availability of fresh produce within PSS because of a shorter supply chain. CCFC will take a monthly record of Students who will have access to locally grown lettuce improving the nutritional quality of school meals.

**2. Improved Food Environment:** The project aims to create a healthier food environment

project's educational initiatives and community engagement efforts can contribute to increased awareness and knowledge about hydroponics farming, sustainable agriculture practices, and the importance of healthy eating. This can empower individuals and communities to make informed choices regarding food production, consumption, and nutrition.

**3. Collaboration and Partnerships:** The project's activities can foster collaboration and partnerships among different stakeholders, including the public

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- Administrative Support: Administrative personnel to assist with project management, documentation, budgeting, and reporting.

- Procurement and Supply Chain Management: Staff or resources to manage the procurement of seeds, equipment, nutrient solutions, and other necessary supplies. Develop efficient supply chain mechanisms to ensure timely delivery of produce to the public school system.

#### 4. **Community Resources**

- Land or Facility: Access to suitable land or existing facilities for establishing the hydroponics farm.

- Local Farmers: Engage and involve local farmers in the project,

control mechanisms.

#### 4. **Crop Cultivation and Management:**

Implement crop cultivation activities, including planting seeds or seedlings, monitoring plant growth, maintaining optimal nutrient levels and pH balance, managing water supply, and ensuring proper pest and disease control measures.

#### 5. **Training and Capacity Building:**

Conduct training programs and workshops for school staff,

Tangible products in this aspect include educational materials, manuals, presentations, and workshops that provide guidance on hydroponics farming techniques, crop management, and system maintenance.

#### 5. **Monitoring and Evaluation Reports:**

Throughout the project, monitoring and evaluation activities will be conducted to assess the progress and impact. Tangible products in this context include monitoring reports, data analysis, and evaluation reports that provide insights into crop yield, nutrient efficiency,

within PSS. By supplying fresh produce from the hydroponics farm, the project seeks to promote healthier food options, leading to improved dietary choices and potentially influencing consumer behavior towards more nutritious eating habits.

3. **Enhanced Community Engagement:** The project's activities, including community engagement initiatives, can foster a sense of ownership and involvement among community members. The engagement process may lead to

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school system, local farmers, agricultural organizations, and government agencies. These partnerships can lay the foundation for future collaborative efforts aimed at advancing sustainable agriculture and improving food systems.

Long-term (7-10 years)

1. **Sustainable Food System Integration:** In the long run, the project's activities may contribute to the integration of sustainable food systems principles into broader agricultural practices on Saipan. This can involve a

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fostering knowledge exchange, potential collaboration, and utilization of existing agricultural expertise.

- Community Engagement: Engage community members through public meetings, workshops, and education programs to build awareness, gather input, and foster support for the project.

farmers, and stakeholders to enhance their knowledge and skills in hydroponics farming techniques, crop management, nutrient monitoring, pest control, and system maintenance.

### **6. Monitoring and Evaluation:**

Establish mechanisms to monitor and evaluate the progress and outcomes of the pilot project. This includes tracking crop yields, nutrient efficiency, energy consumption, costs, and collecting

energy consumption, costs, and project outcomes.

**6. Documentation and Reports:** The project will generate documentation and reports that capture the project's planning, implementation, and outcomes. This includes project plans, financial reports, resource allocation records, and documentation of the community engagement process.

**7. Collaborative Networks and Partnerships:** As a result of the project, tangible products include the establishment of collaborative

increased awareness and understanding of hydroponics farming, sustainable agriculture practices, and the importance of healthy eating.

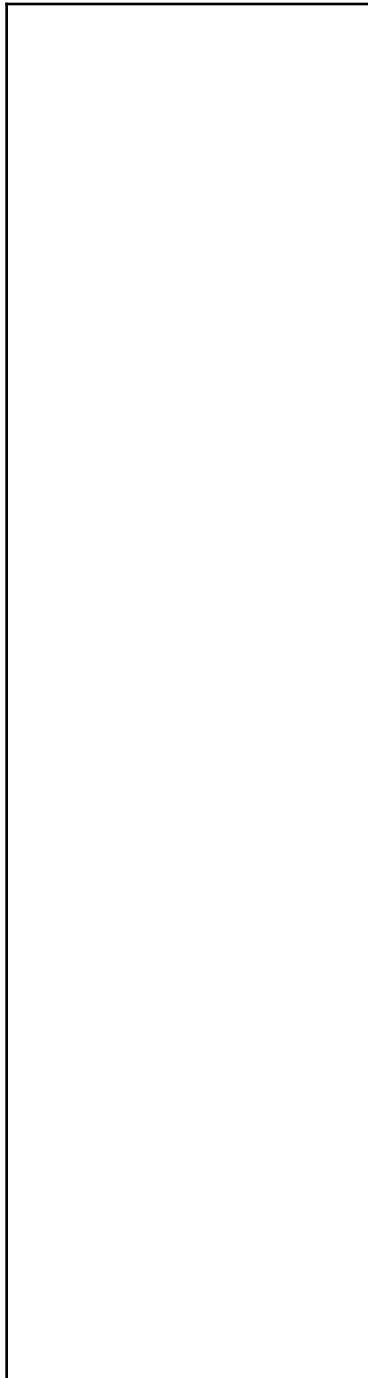
### Long-term (4-6 years)

**1. Sustainable Local Food System:** Over time, the project's activities can contribute to the development of a sustainable local food system on Saipan. The establishment of the hydroponics farm and the integration of locally grown produce into the public school system can stimulate interest in sustainable

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wider adoption of hydroponics farming and other sustainable techniques, promoting local food production, reducing food waste, and enhancing food security and resilience.

**2. Policy and Institutional Changes:** The success and positive outcomes of the project can influence policy and institutional changes within the local government and educational institutions. This may lead to the development of supportive policies, regulations, and educational programs that



feedback from stakeholders. Use the gathered data and insights to make informed decisions, improve processes, and demonstrate the impact of the project.

**7. Community Engagement and Collaboration:** Engage with the public school system, local farmers, community members, and relevant organizations through events, meetings, and educational programs. Foster collaboration, gather input, and build support for the project.

networks and partnerships with the public school system, local farmers, community members, and relevant organizations. These partnerships can lead to continued collaboration and knowledge exchange in the field of hydroponics farming and sustainable agriculture.

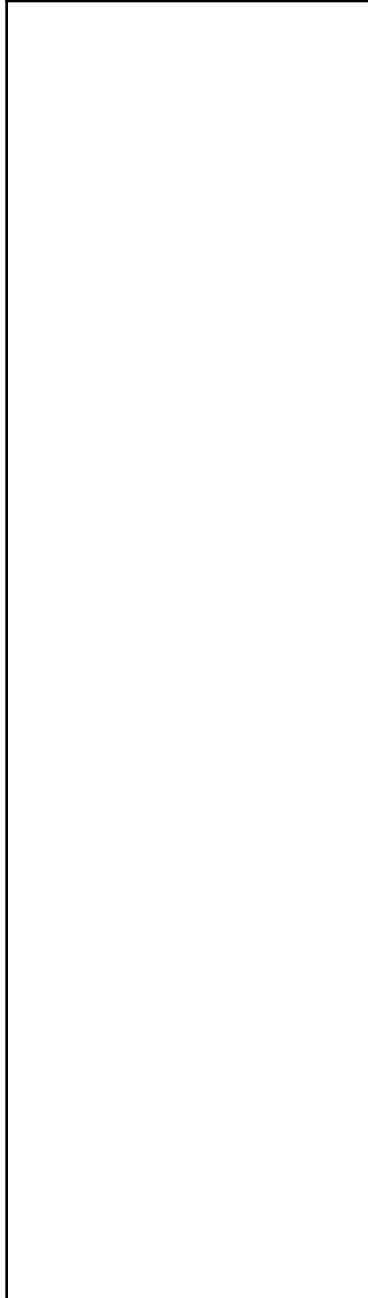
These tangible products reflect the concrete outcomes of the project's activities and contribute to the overall objective of establishing a sustainable hydroponics farm to supply fresh produce to the public school

agriculture practices, leading to the expansion of similar initiatives in the community.

**2. Improved Dietary Habits and Health Outcomes:** With continued access to fresh and nutritious produce, the long-term impact of the project may be reflected in improved dietary habits and better health outcomes among the student population. Consistent exposure to healthy food options can positively influence consumer behavior, leading to long-term improvements in diet and potentially reducing the prevalence of

prioritize sustainable agriculture, healthy eating, and the integration of locally sourced produce into public institutions.

**3. Community Empowerment and Ownership:** Over time, the project's activities can empower the community to take ownership of their local food system. This can involve increased participation of community members in agricultural initiatives, development of community-led projects, and a deeper sense of food sovereignty and resilience.



**8. Technological Integration:**

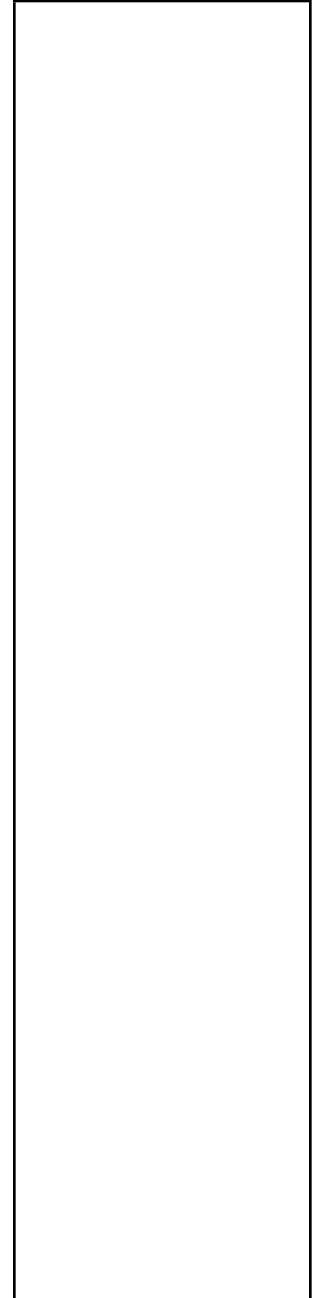
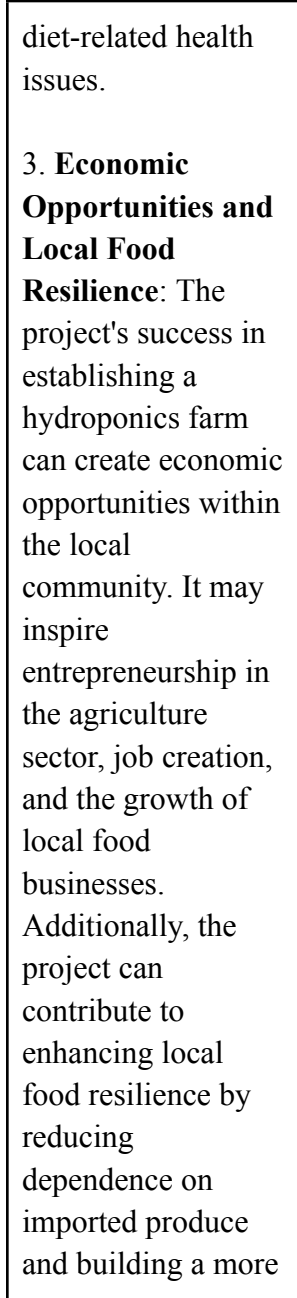
Utilize appropriate technology and tools to enhance efficiency and productivity, such as automated monitoring systems for nutrient levels, climate control, and irrigation, as well as data management and analysis tools.

system's food business.



diet-related health issues.

**3. Economic Opportunities and Local Food Resilience:** The project's success in establishing a hydroponics farm can create economic opportunities within the local community. It may inspire entrepreneurship in the agriculture sector, job creation, and the growth of local food businesses. Additionally, the project can contribute to enhancing local food resilience by reducing dependence on imported produce and building a more



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self-sustaining food system.

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