SYSTEM OPERATIONS

1. Inspection and Cleaning
Water pumps, ventilation blower controls and switches, humidifier and etc. shall be inspected and cleaned to ensure system functionality and avoid contamination of the new crops.

2. Nutrient Preparation
The solution shall be prepared by mixing commercially available nutrient solution with water based, with ratio stipulated by each brand.

3. Monitoring and Circulation
Before transplanting, the pump circulation shall be ran to fill the growing racks with nutrient solution. Every day monitoring shall be done to ensure optimum level of solution, pH and TDS.

4. Transplanting
Each seedling shall be transplanted on a net pot and placed on the growing rack. Proper distancing of holes shall be secured to fit the net pot containing the vegetable.

5. Sytem Running
After transplanting, all components shall be turned on, allowing the system to run by itself until the crops are ready for harvest. The light will operate for 10 hours and pump circulation will run every hour for 15 minutes, while ventilation will function every 30 minutes for 15 minutes.

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Sambo, P. (2019). Hydroponic Solutions for Soilless Production Systems: Issues and Opportunities in a Smart-Agriculture Perspective. Frontiers. https://www.frontiersin.org/articles/10.3389/fpls.2019.00923/full
Hydroponic: Various hydroponics systems. (n.d.). Retrieved November 3, 2022, from https://www.hydroponic-urban-gardening.com/hubrikon/various-hydroponics-systems/
Tilley, N. (2022, February 17). Hydroponic Gardening Indoors. Gardening Know How. https://www.gardeningknowhow.com/special/containers/hydroponic-gardening-indoors.htm

INDOOR HYDROPONIC FARMING

CONTROLLED ENVIRONMENT AGRICULTURE

CEA, also known as **indoor farming**, is the practice of growing of crops while controlling certain aspects of increase yield per unit.

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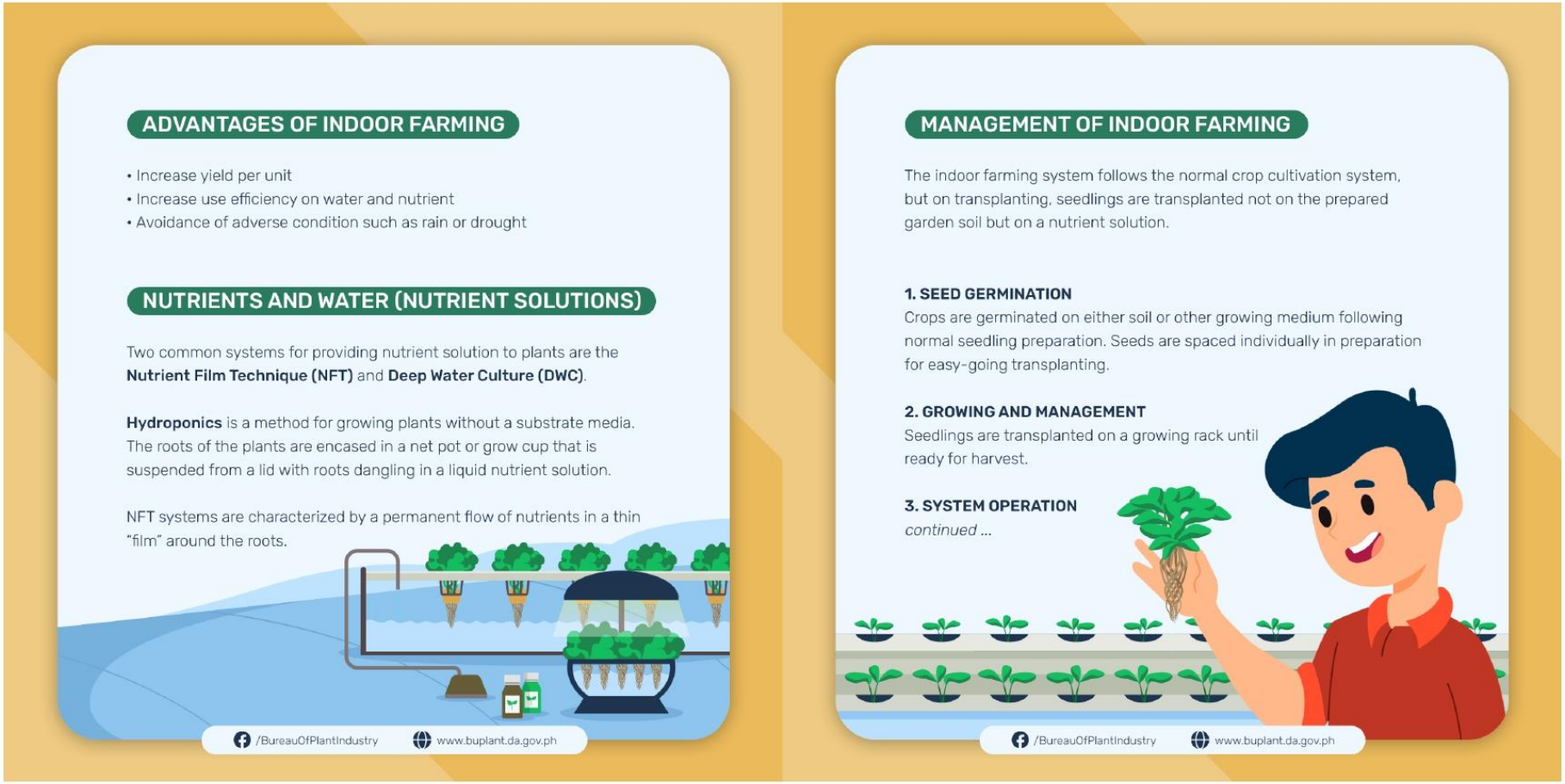

Introducing the National Urban and Peri-Urban Agriculture Program 🌱💦, helping you succeed in hydroponic gardening! Thinking about starting your own soil-free garden? We've got you covered. From choosing the right system to managing nutrients and lighting, our expert tips will guide you through setup and care for a thriving harvest year-round. Follow us for Hydroponics 101 insights and grow smart with sustainable farming practices!