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Three topics in module 2 that I found most useful

- ❖ Protected cultivation for vegetable crops
- ❖ Nutrient Values from seed to table
- ❖ Biology of Postharvest for vegetables



Development Action Planning (DAP)

The comparison of some characterization between lettuce was cultivated in Nutrient Film Technique (NFT) and substrate culture system

- ❖ Healthy Trend
- ❖ Argument quality of lettuce between NFT and Substrate culture system
- ❖ Shelf life
- ❖ Nitrate accumulation in lettuce



Objectives

- ❖ The comparison of some nutrition between lettuce was cultivated from NFT and substrate culture system
- ❖ The comparison of some post harvest characterization between lettuce was cultivated from NFT and substrate culture system



NFT vs Substrate culture



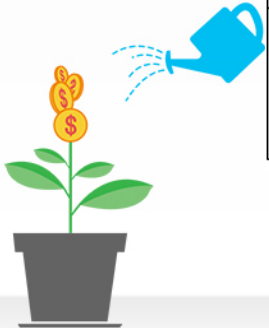
Development Action Planning

No	Activity Plan	Time						Responsible person	Result/Outcome
		2016		2017					
		Nov	Dec	Jan	Feb	Mar	Apr		
1.	Experiment design, Determination data collection and analysis	↔						Research officer	Proposal
2.	Selection of suitable lettuce cultivars and contact the seed company		↔					Research officer Private officer	Lettuce seed
3.	Contact the state sector for permit to use the green house and field		↔					Research officer Field officer	Place of experiment
4.	Prepare system, media, seedlings and fertilizer for cultivation			↔				Research officer Field officer	System ready to transplant the seedlings



Development Action Planning

5.	<ul style="list-style-type: none"> -Transplant the seedlings in to system and take care - collect the plants to determination -physiology: fresh weight, plant hight, number of leaf, firmness etc. -nutrition: vit c, fiber, phenolic compound, nitrate accumulation etc. -post harvest management: shelf life, weight loss, transpiration, respiration etc. 							Research officer Post harvest officer	Lettuces are ready to determinati on
6.	Data analysis ,Conclusion and announcement a new information							Research officer	Knowledge



Challenges

- ❖ Pythium Wilt Disease of lettuce causing losses
 - ❖ Trichoderma
- ❖ Thrips feeding on lettuce can cause curled leaves and silvering and wilting.
 - ❖ insecticide : Organophosphate

