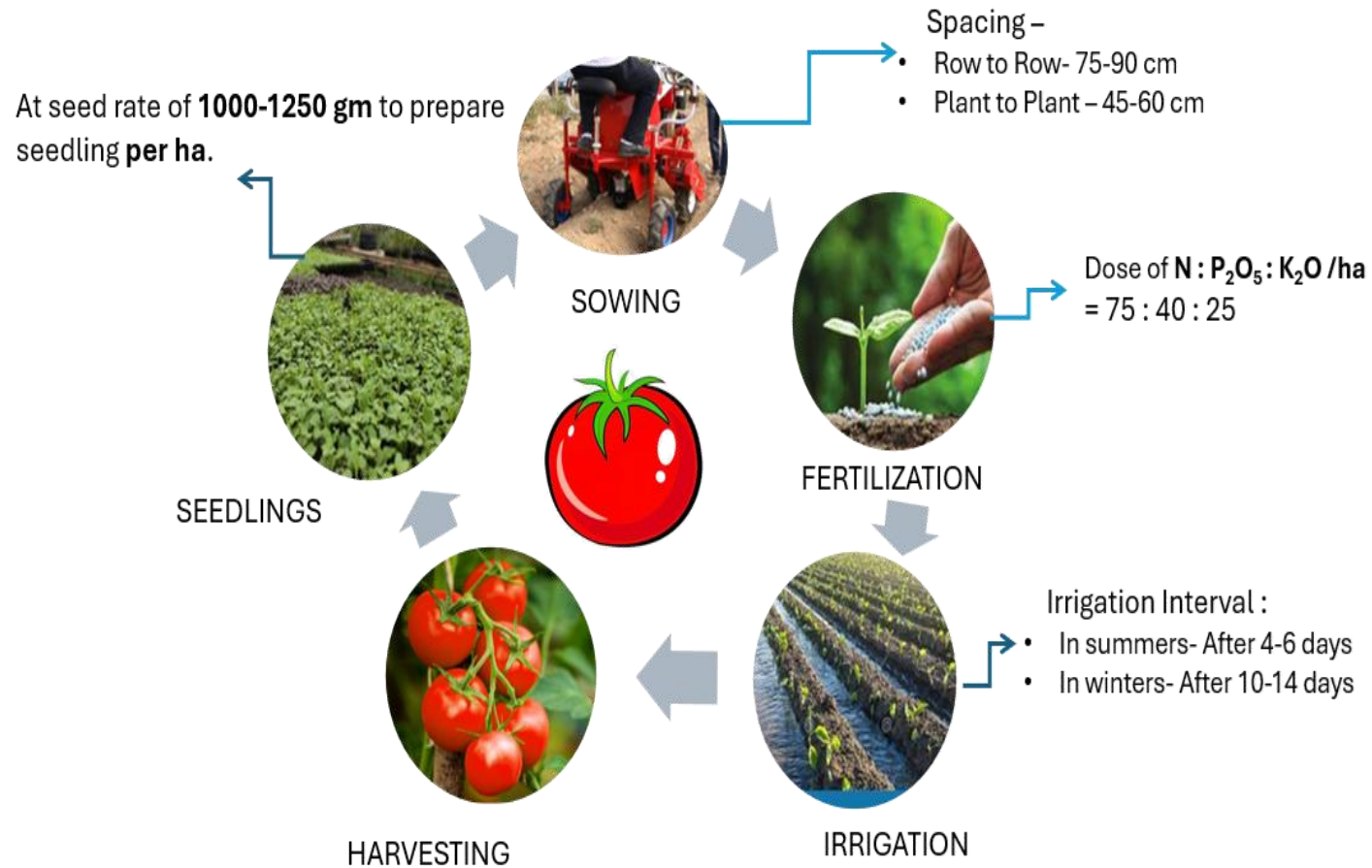


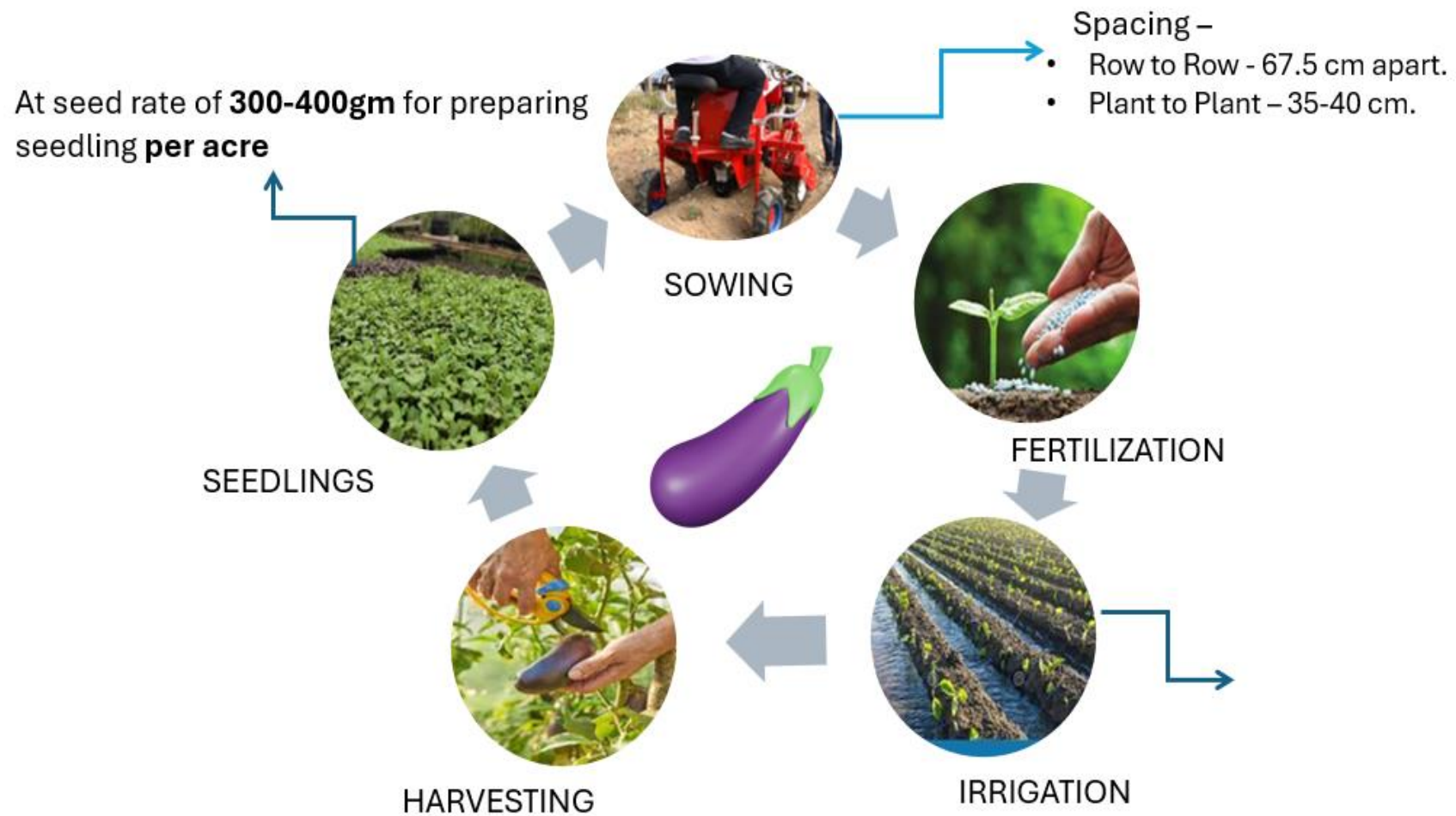
Vegetable Transplanting



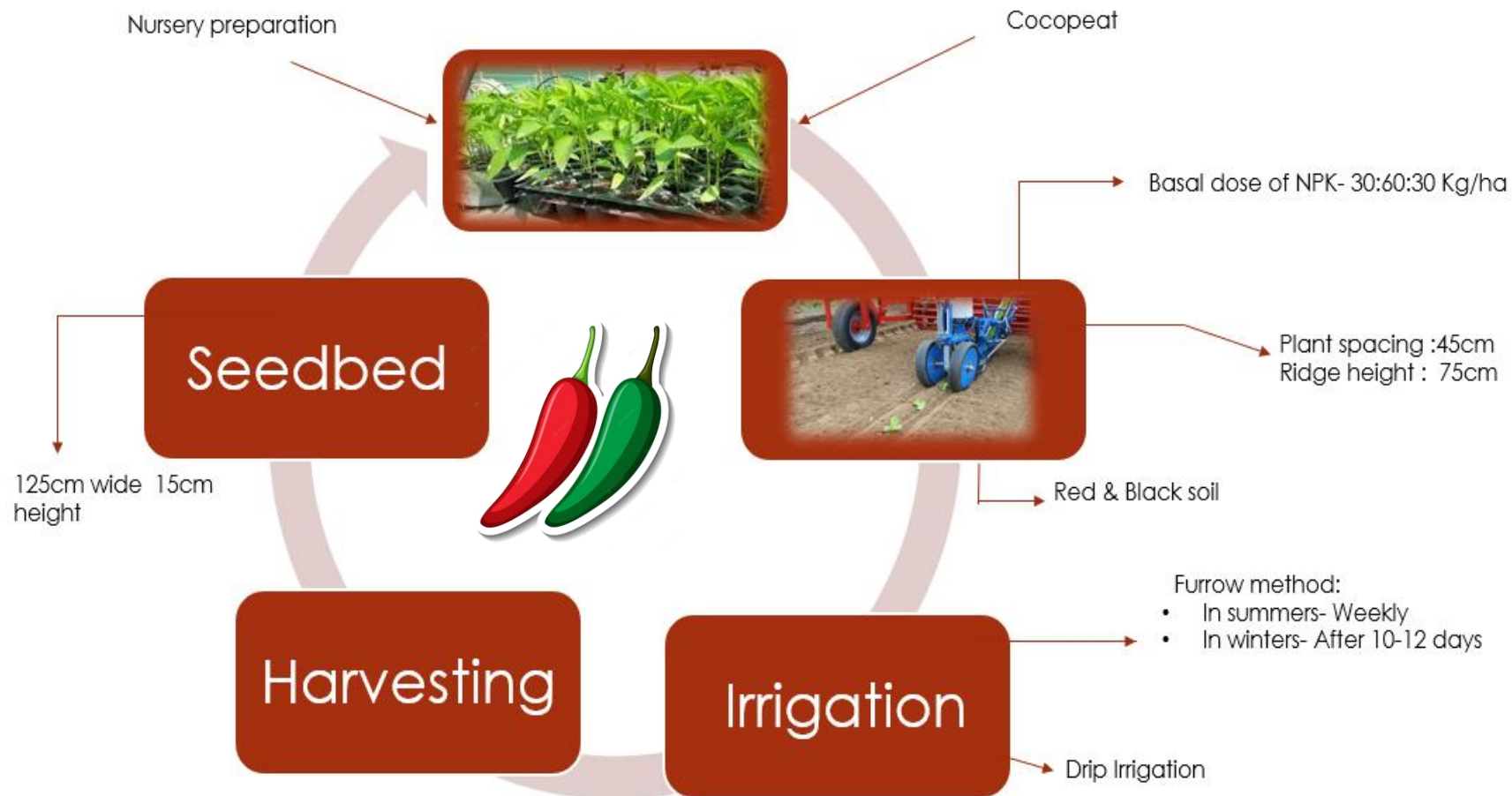
Basic Agronomy of vegetable crops:-



Crop	Row spacing, mm		Plant spacing, mm	
	Min	Max	Min	Max
Tomato	450	600	300	450

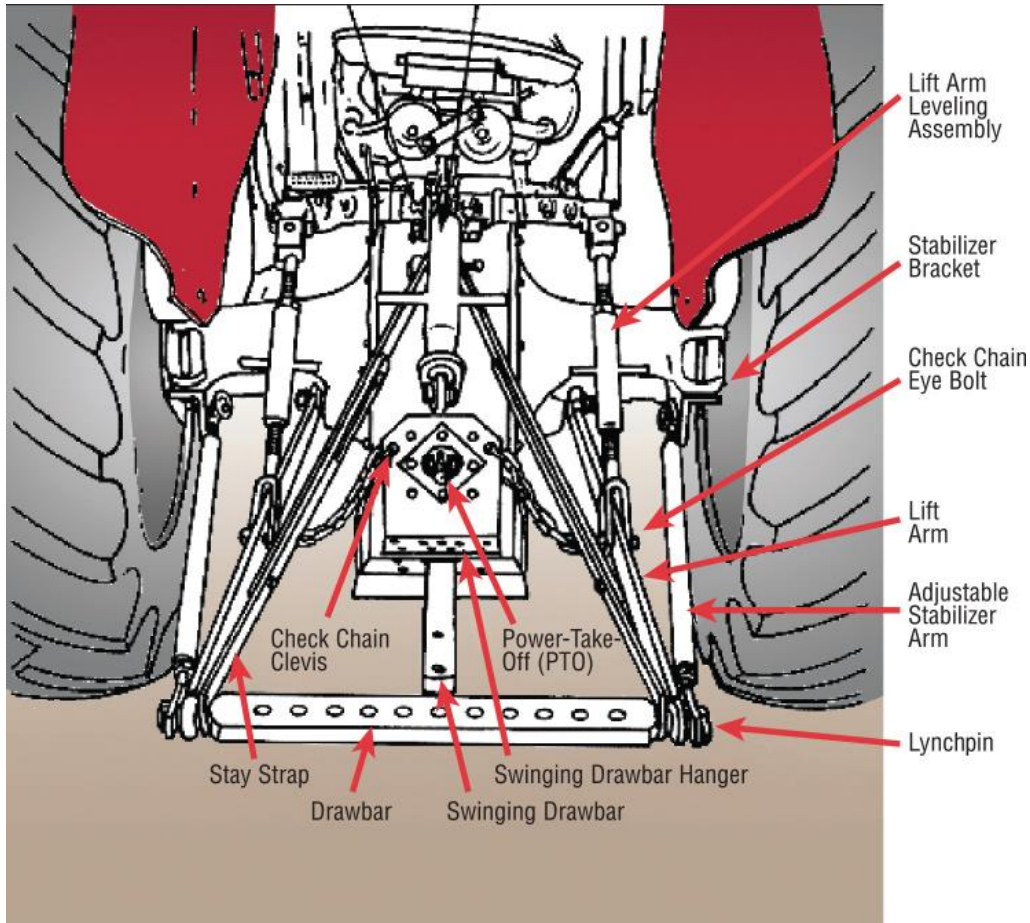


Crop	Row spacing, mm		Plant spacing, mm	
	Min	Max	Min	Max
Brinjal	600	900	450	900



Crop	Row spacing, mm		Plant spacing, mm	
	Min	Max	Min	Max
Chilli	600	900	600	900

Tractor Linkage system



Bed



Saplings

How Vegetable transplanting can be done ?

Manual



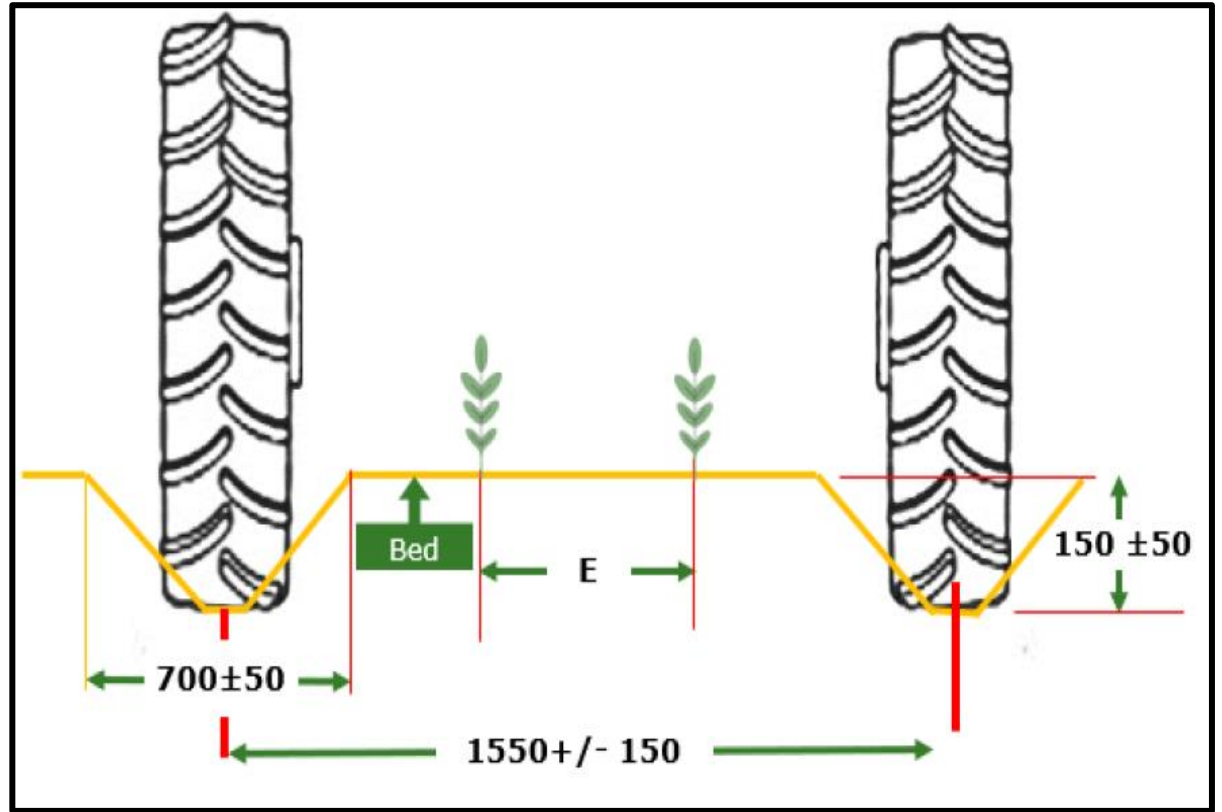
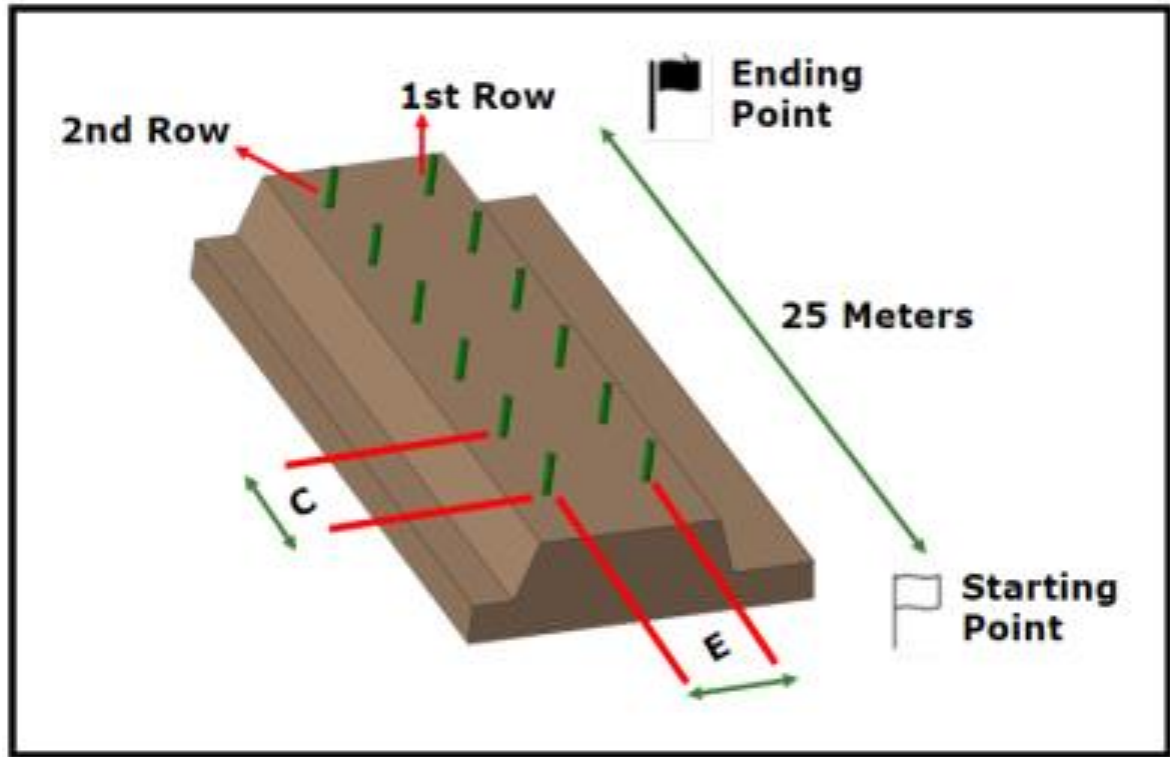
Mechanized solution

Semi-automatic machine

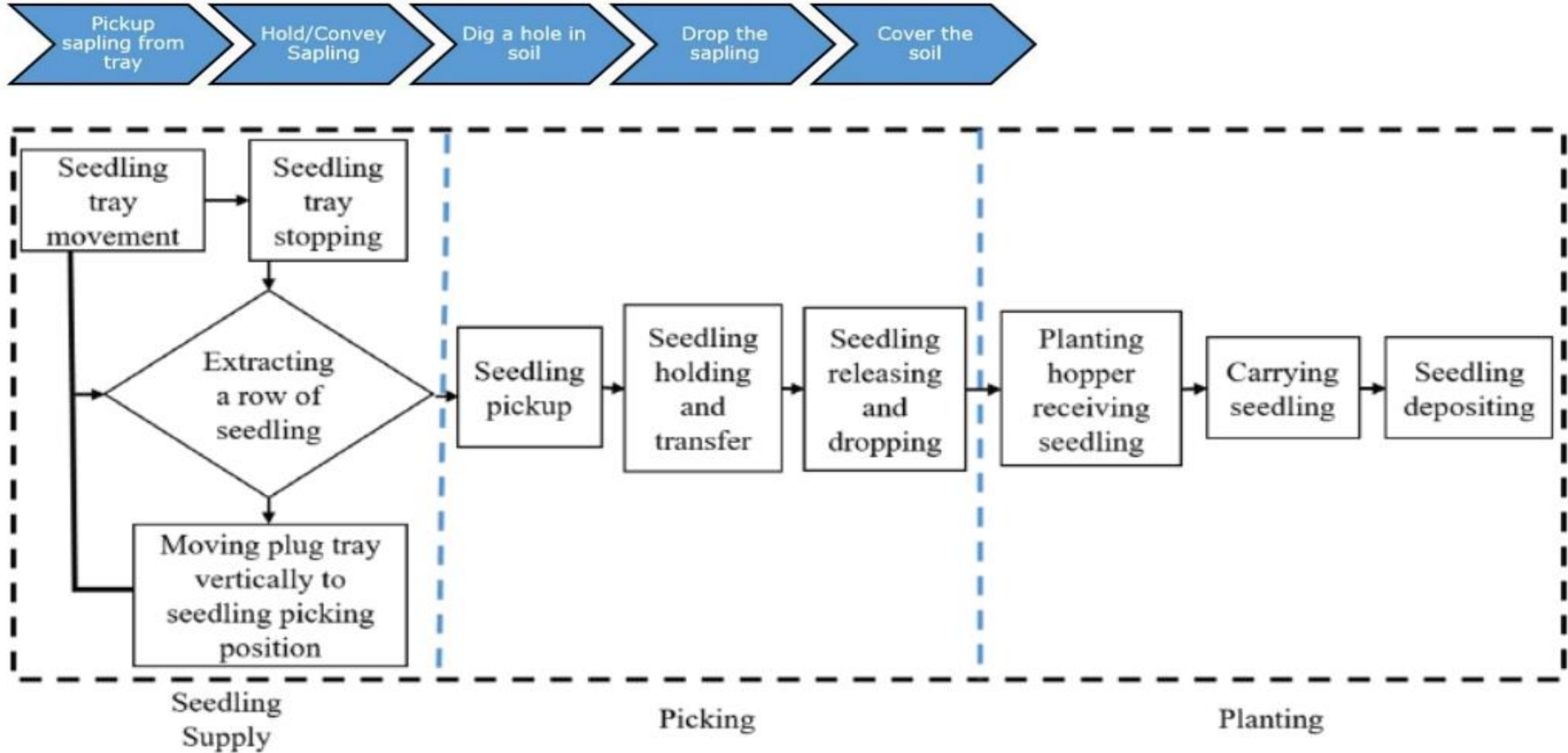


Fully-automatic machine



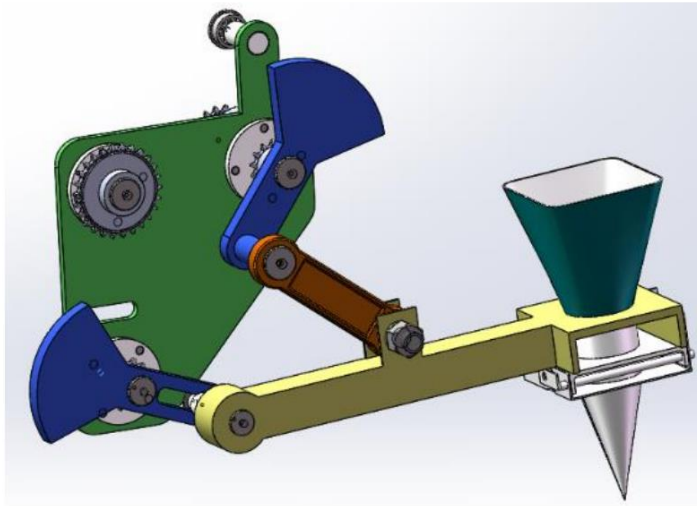


Flow diagram of sequence of operations in Transplanter



Source: Agricultural Science Digest, Volume 43 Issue 2 (April 2023) : 129-134 :Vegetable Transplanters for India: A Review

Subsystems involved



Overview of subsystem-integration

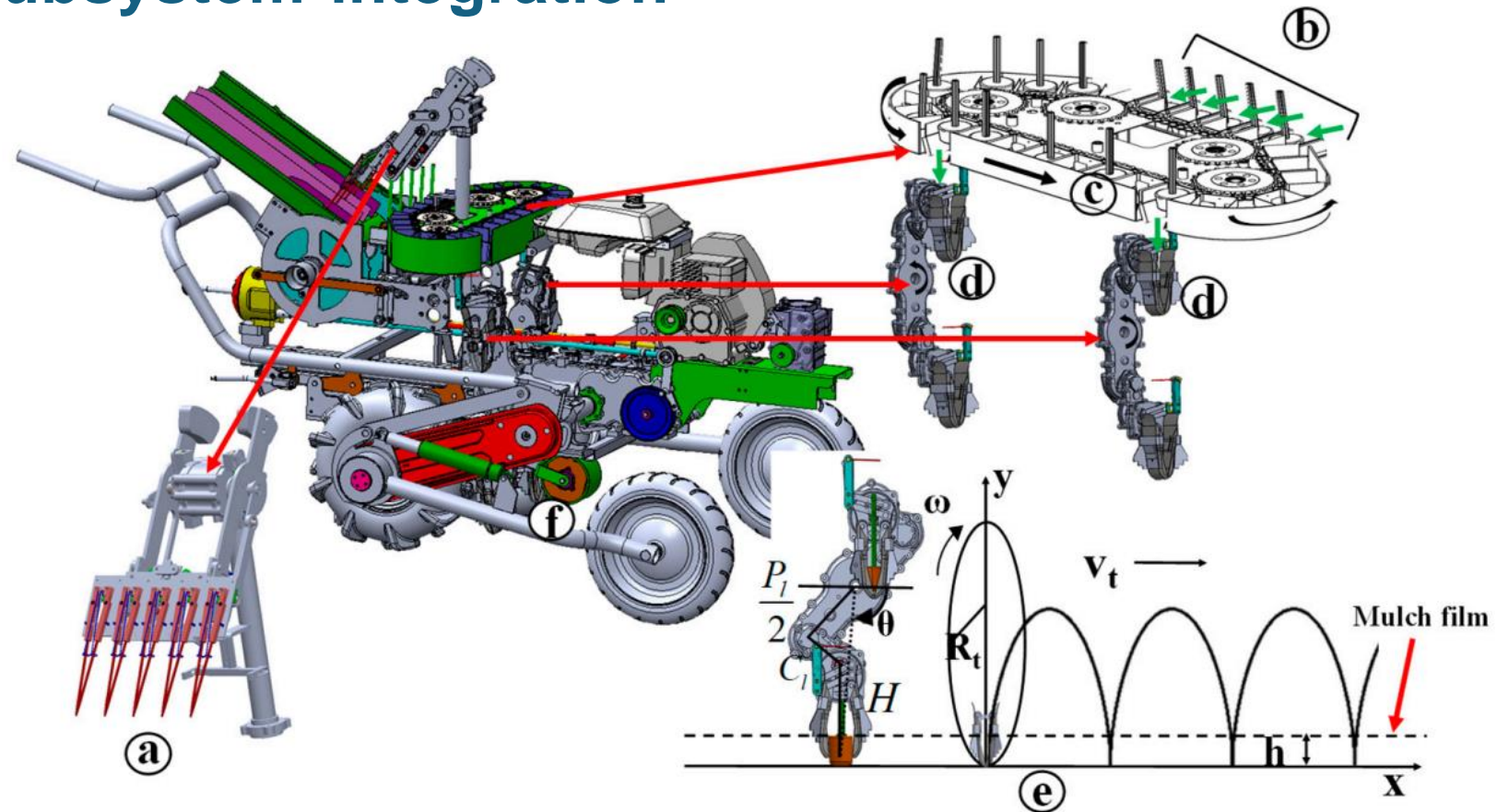


Figure 1. Structure of the pepper transplanter under development: (a) seedling picking manipulator, (b) seedling conveying unit, (c) conveying unit, (d) dibbling mechanism, (e) mathematical model of dibbling operations, and (f) soil-compacting mechanism

Yanmar Fully Automated Transplanter
[Video link](#)