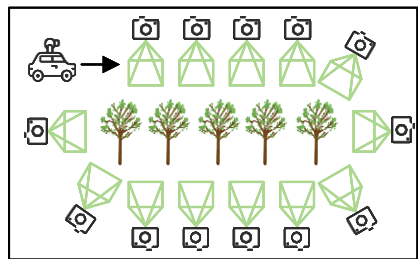
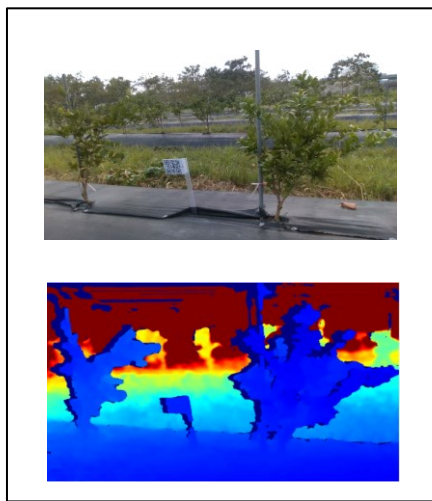


A: Data Acquisition



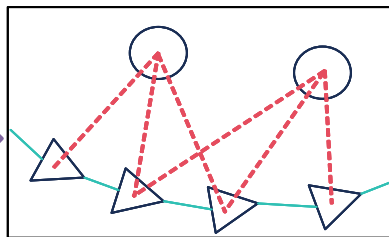
Inspection



RGB-D

B: Pose Estimation

ORB-SLAM3



Camera Positioning



Point Cloud Initialization

Pose

C: Viewpoint Extraction

YOLO-World

2D
Relation

3D
Matching

3D
Relation



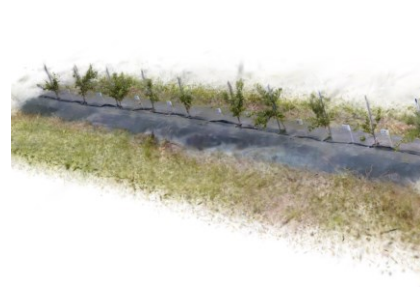
Single Plant Image Sequence

D: 3D Reconstruction

An Improved 3DGS
Framework



Single Plant Reconstruction



Orchard Reconstruction