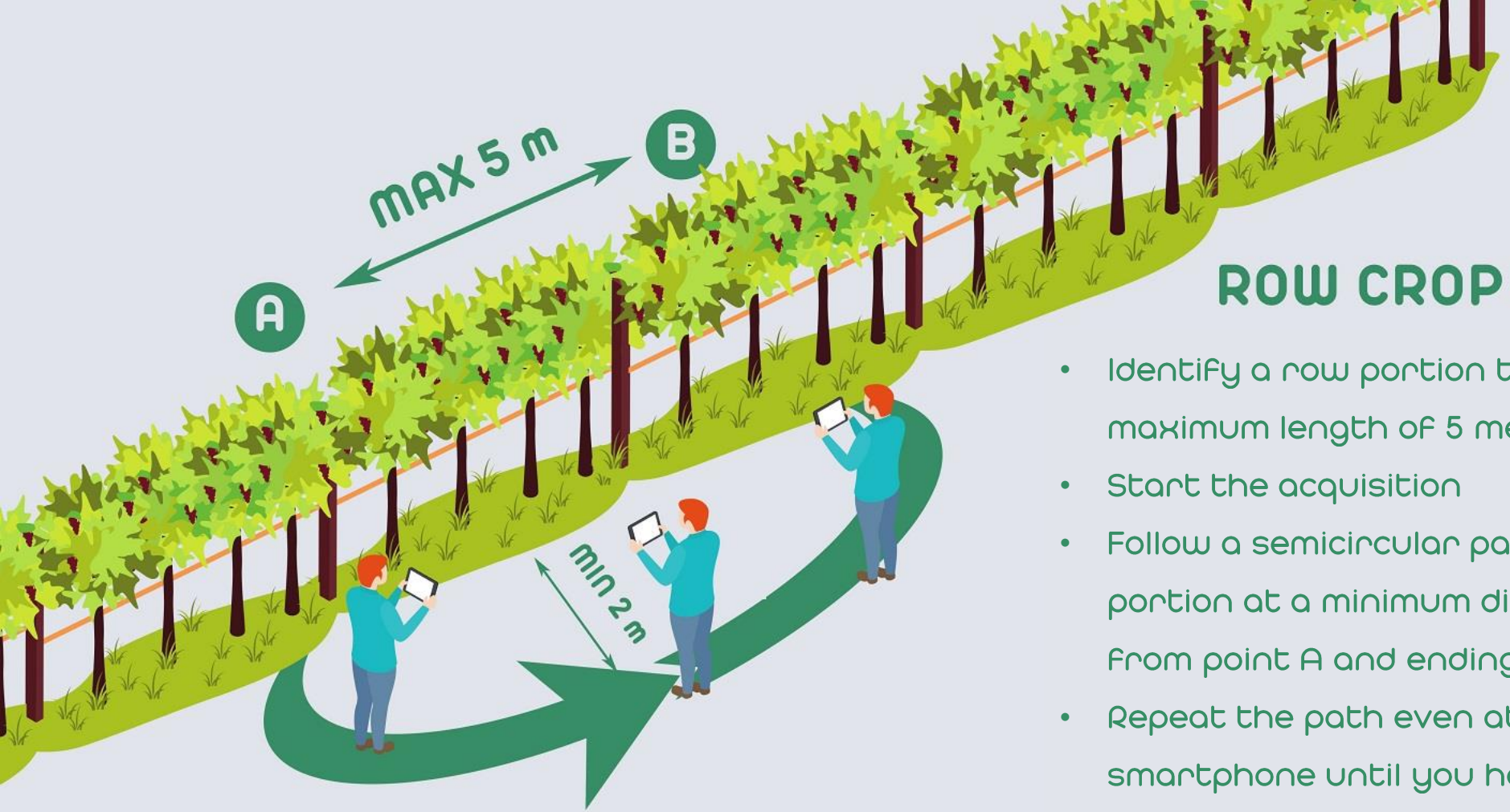
iAGRO

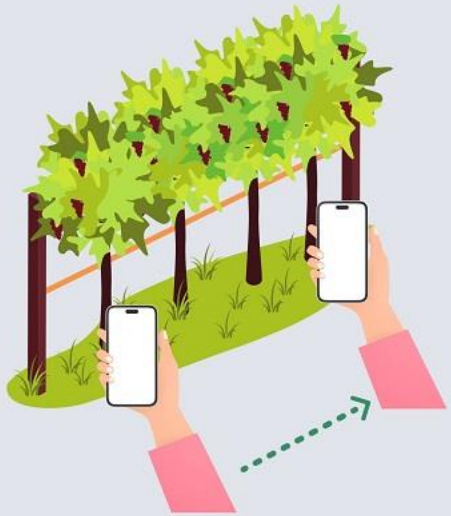
Tutorial



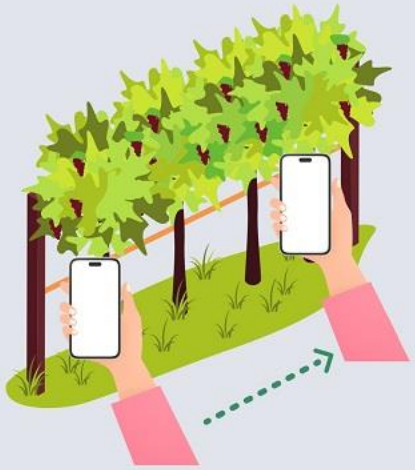
ROW CROP SCAN

- Identify a row portion to be analyzed for a maximum length of 5 meters
- Start the acquisition
- Follow a semicircular path around the identified portion at a minimum distance of 2 meters, starting from point A and ending at point B
- Repeat the path even at different heights of the smartphone until you have performed 2-3 passes in total, always filming the target row portion
- The photo counter at the top right must reach at least 50 before you can save the acquisition
- The app automatically records video frames with information on location and orientation

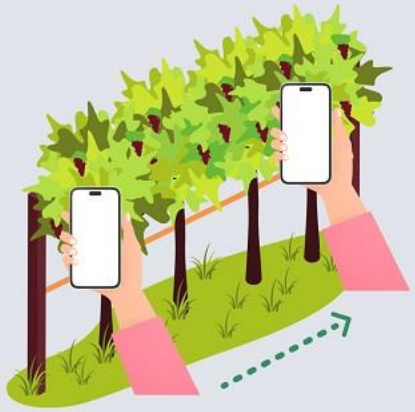
1.



2.

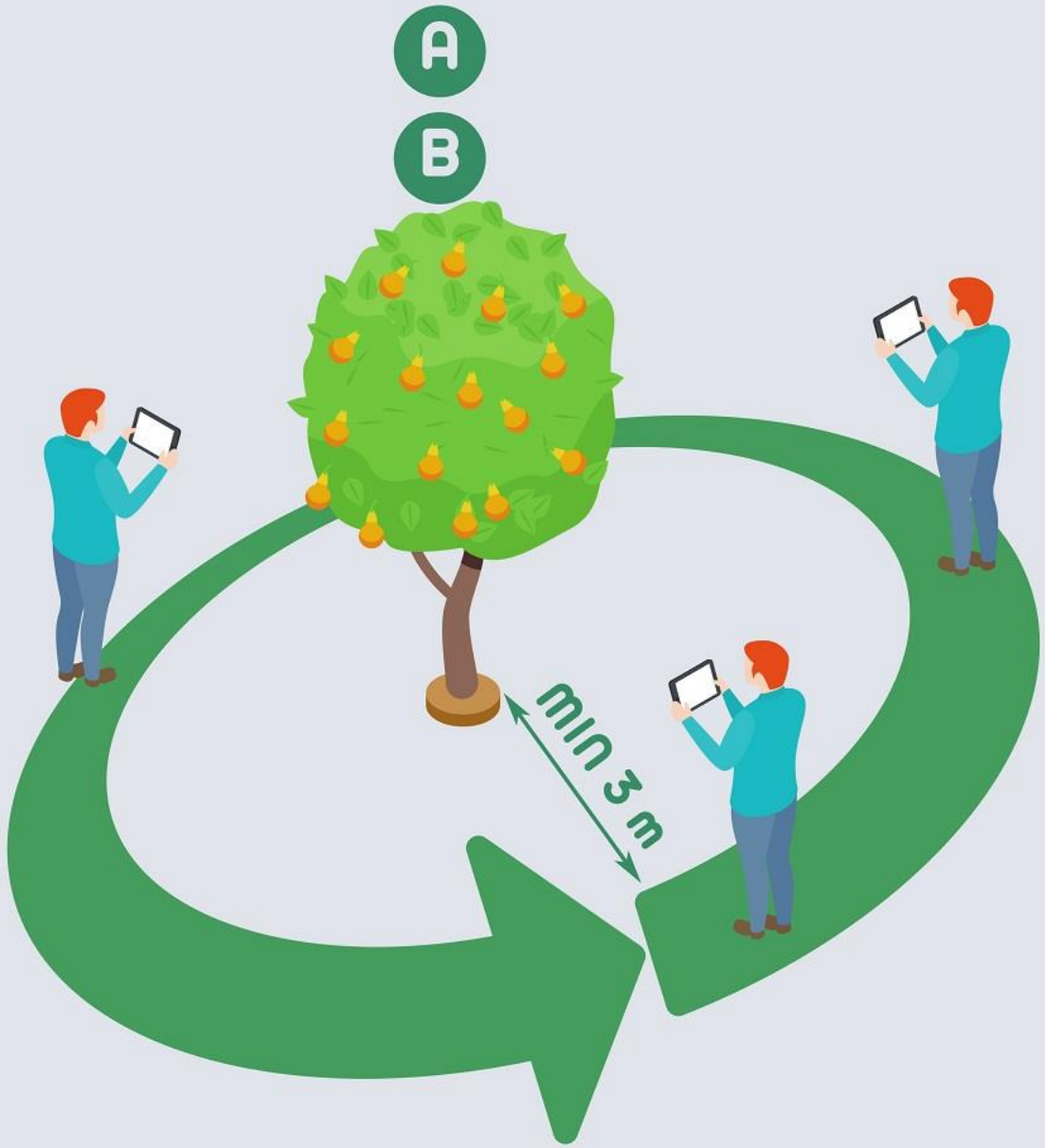


3.



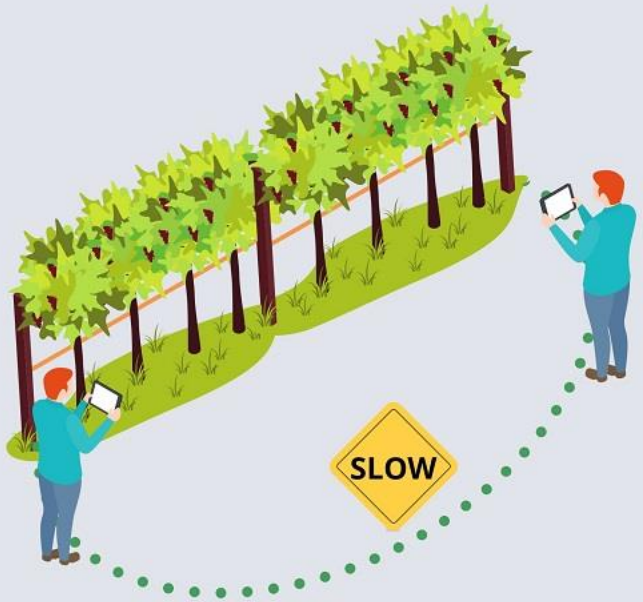
PLEASE NOTE:

The acquisition must be carried out at different height levels in order to cover the entire vegetated wall of the row portion



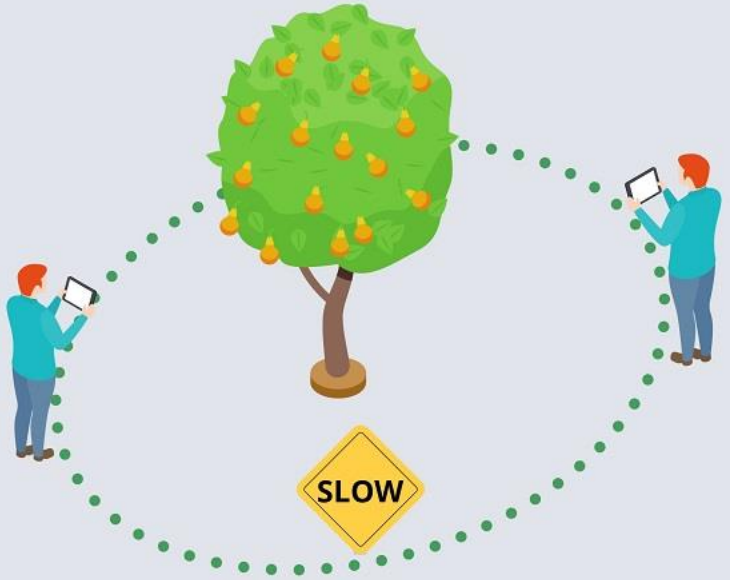
TREE CROP SCAN

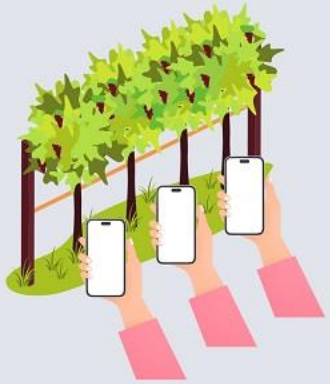
- Locate a tree to be analyzed
- Start the acquisition
- Walk around the tree at a minimum distance of 3 meters starting from point A and ending at point B (360°). Make a single complete circular pass always filming the target tree
- The photo counter in the top right must reach at least 50 before you can save the acquisition
- The app automatically records video frames with information on location and orientation



WARNING:

Move slow





YES

NO

YES

NO

WARNING:

Make sure not to tilt your smartphone/tablet

HOW TO MAKE SURVEYS

- Select the field to be analyzed
- Make at least 5 acquisitions per hectare
- Complete all the acquisitions within 5 days

WARNING:

For optimal survey results, acquisitions must be evenly spread within the field in order to cover all the areas.

UPLOAD THE IMAGES TO THE CLOUD

Once the acquisition is completed, upload the photos to the cloud and wait few minutes for processing
You can also upload the images later.

VIEW THE 3D MODEL

After processing, visually explore the 3D model (digital twin) of your crop.

VIEW RESULTS
OF YOUR ACQUISITIONS

PLANT THICKNESS AND HEIGHT

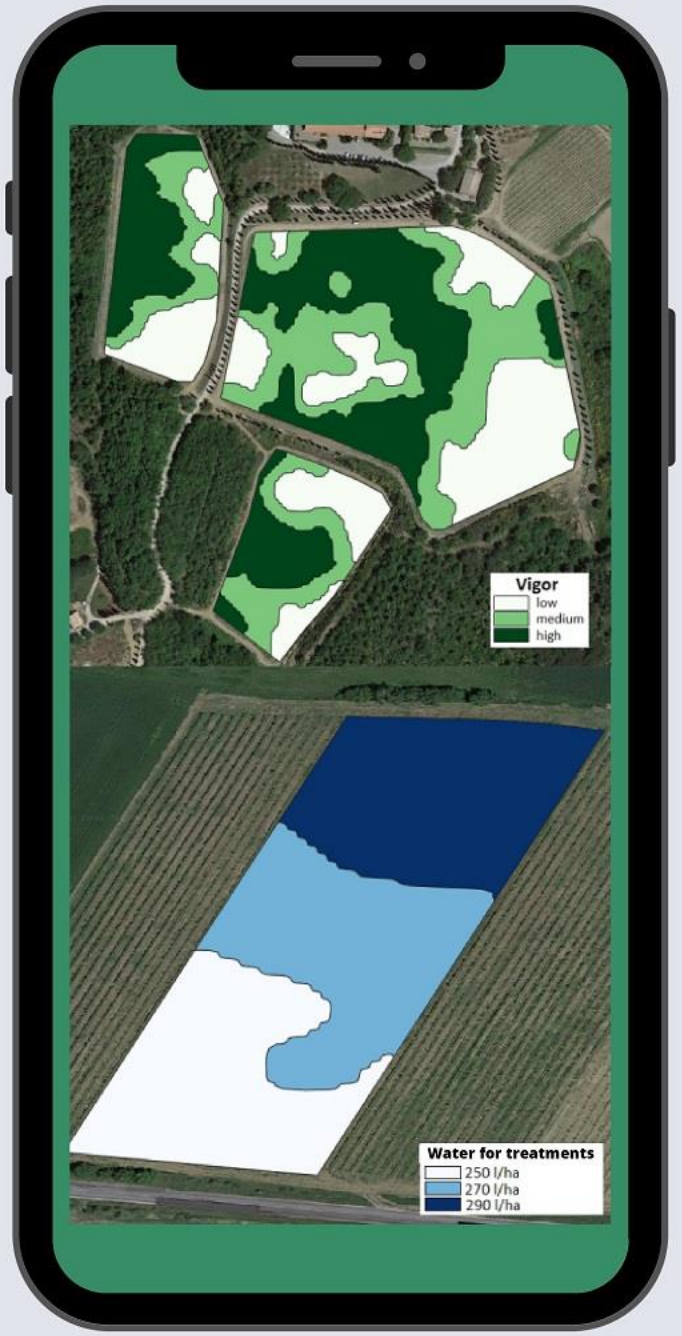
VEGETATIVE VIGOR (LAI, LWA, TRV)

THE OPTIMAL AMOUNT OF WATER
FOR PHITOSANITARY TREATMENTS

VIEW MAPS
OF YOUR SURVEYS

MAP OF VEGETATIVE VIGOR (LAI)

MAP OF OPTIMISED WATER DOSES
FOR PHYTOSANITARY TREATMENTS



EXPORT:

- Export acquisitions results in tabular format (.csv)
- Export survey maps in raster (.tiff) and vector formats (.shp)
- Analyze or further process your data to generate other prescription maps (fertilization, harvesting, etc.)
- Load prescription maps on variable rate technology (VRT) machines to optimize field operations