TASK 03: USE CASE SPECIFICATION OF MONITORING BY DRONES

ACTORS	<u>USE CASES / SERVICES</u>
DRONE	-take several images by multispectral camera -record the imagery data
INTERNAL	-overlap the pictures
SYSTEM	-produce a high-resolution map of health of entire field (i.e 2400 times
	more detailed than satellite imagery)
FARMER	-set up drone path over the field to be mapped
	-look into map using reflectance property
	-observe how well plants are reflecting the light from the Sun
	-use the analyzed information from Agronomist for the better growth. Like
	when and where to apply fertilizer or pesticide or how to manage irrigation.
AGRONOMIST	-scout and take samples of plant and soil (from the areas that are under
	some kind of stress) using drone data
	-analyse the samples
	-inform the farmer about the analysis

MAP DETAILS:

These maps give us an early warning and allow us to solve the problems.

- -plants in green areas of map are extremely healthy
- -plants in red areas of map are facing serious issues like drainage problems, pest infestation,etc.
- -plants in yellow-orange areas of map are suffering unhealthiness from early stage which human eye cannot identify that easy

