A picture containing text, whiteboard

Description automatically generated

Surveillance camera cannot track the location, can only prevent/notify when sheep is lost

Camera must be high and in fixed position, cannot move with the sheep

Camera:

Object detection and localization:

Model specs:

Ideally track more than 100,000 objects <https://static.googleusercontent.com/media/research.google.com/en//pubs/archive/40814.pdf>

1. Object counter (YOLOv4): We could use several to prototype <https://www.youtube.com/watch?v=jDwC5m7c7BU>
2. Object tracking, this can be done on raspberry Pi? ()

<https://www.youtube.com/watch?v=mNjXEybFn98>

Camera specs:

1. The location of the camera,
2. Range of surveillance
3. I am not familiar with cameras tho, may need someone else to do more research

Notify: