

ENERGY PLANT RECOMMENDATION FOR BIO-FUEL

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Why this Project?

- Farmers from Punjab and Haryana burn paddy straw(around 35 million tonnes) to clear the paddy fields which is harmful to environment and health.
- A2P Energy Solution Pvt Ltd pays Rs. 3000/- per acre and collects straw from them to convert paddy straw to biofuel.
- This business couldn't survive if the transportation cost is too high.



The Problem or Challenge

To recommend the optimal locations for Plant to reduce transportation cost.





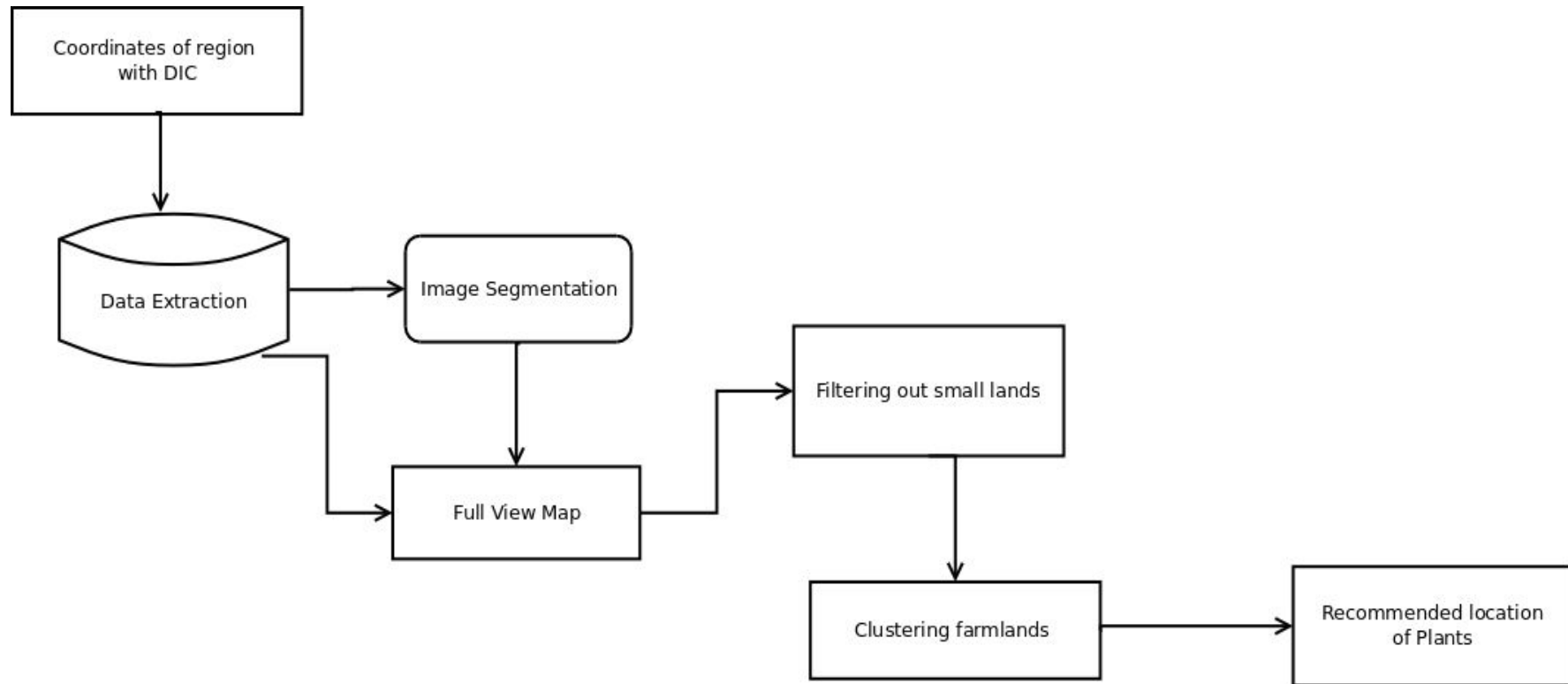
The project creates a pipeline
using Python which
accomplishes the desired
Objectives

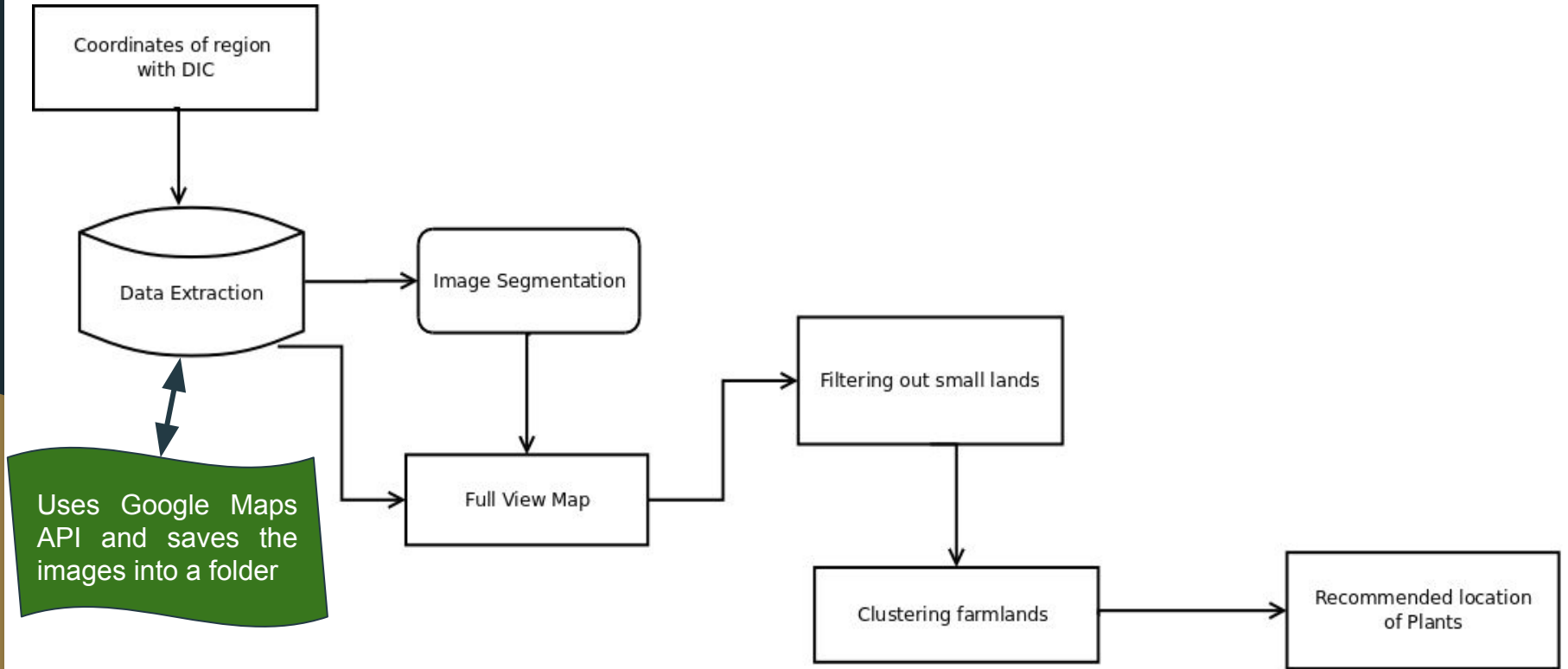
Objectives

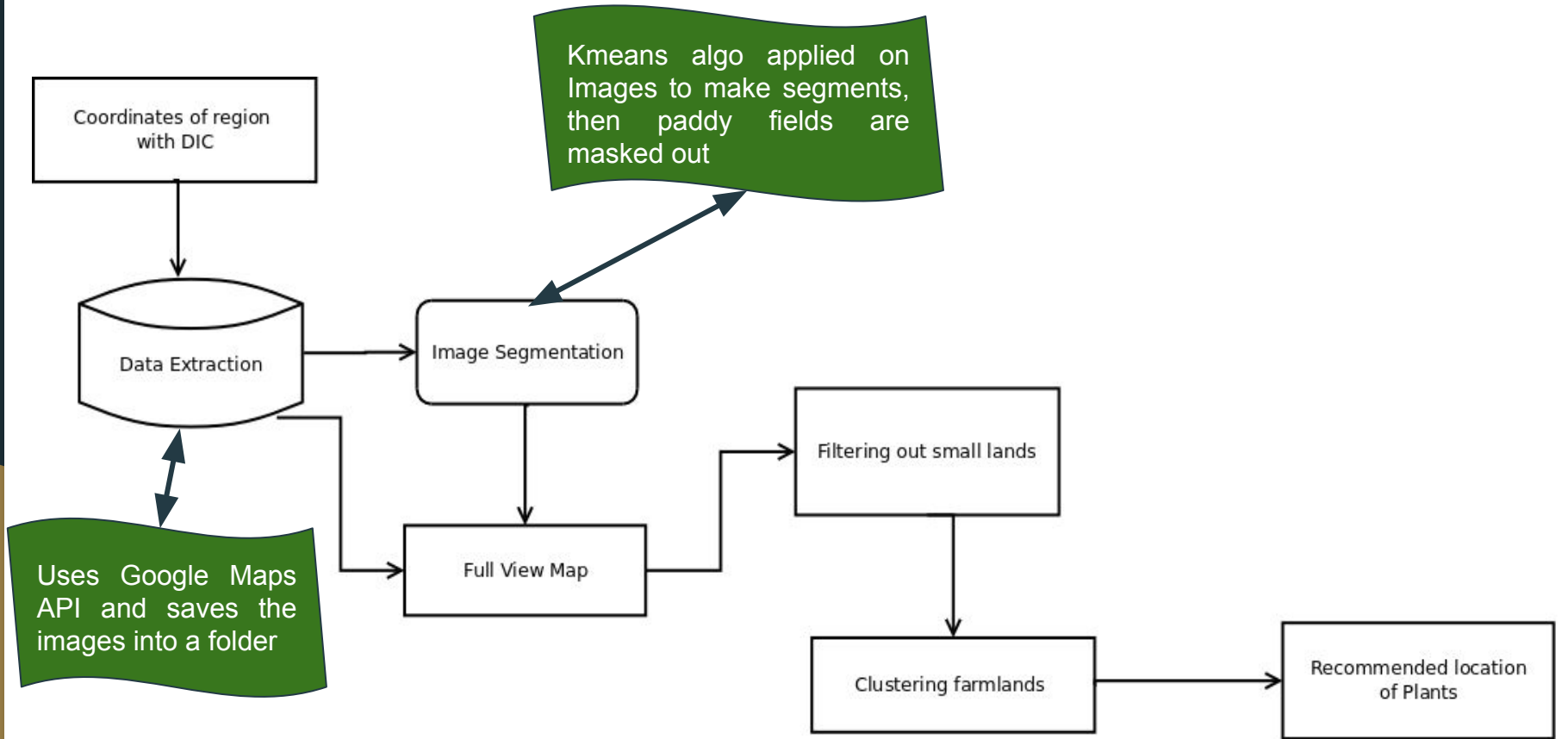
- Extract zoom level images of a region (approximately 30km radius)
- Perform Image segmentation on the images and mask out paddy fields.
- Attach the images to create a clear map
- Calculate the area of each patch
- Recommend Top N patches using various heuristics.

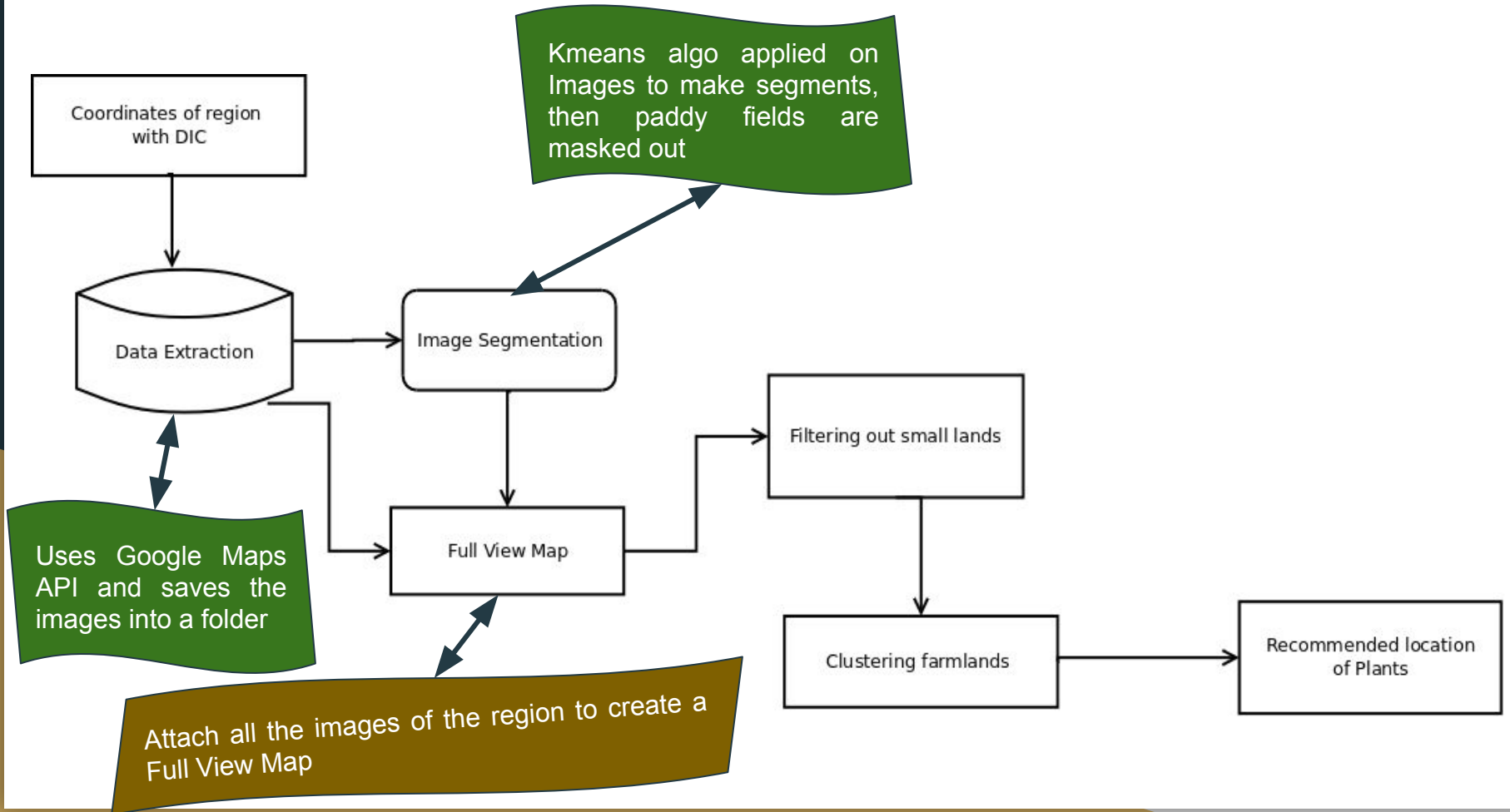


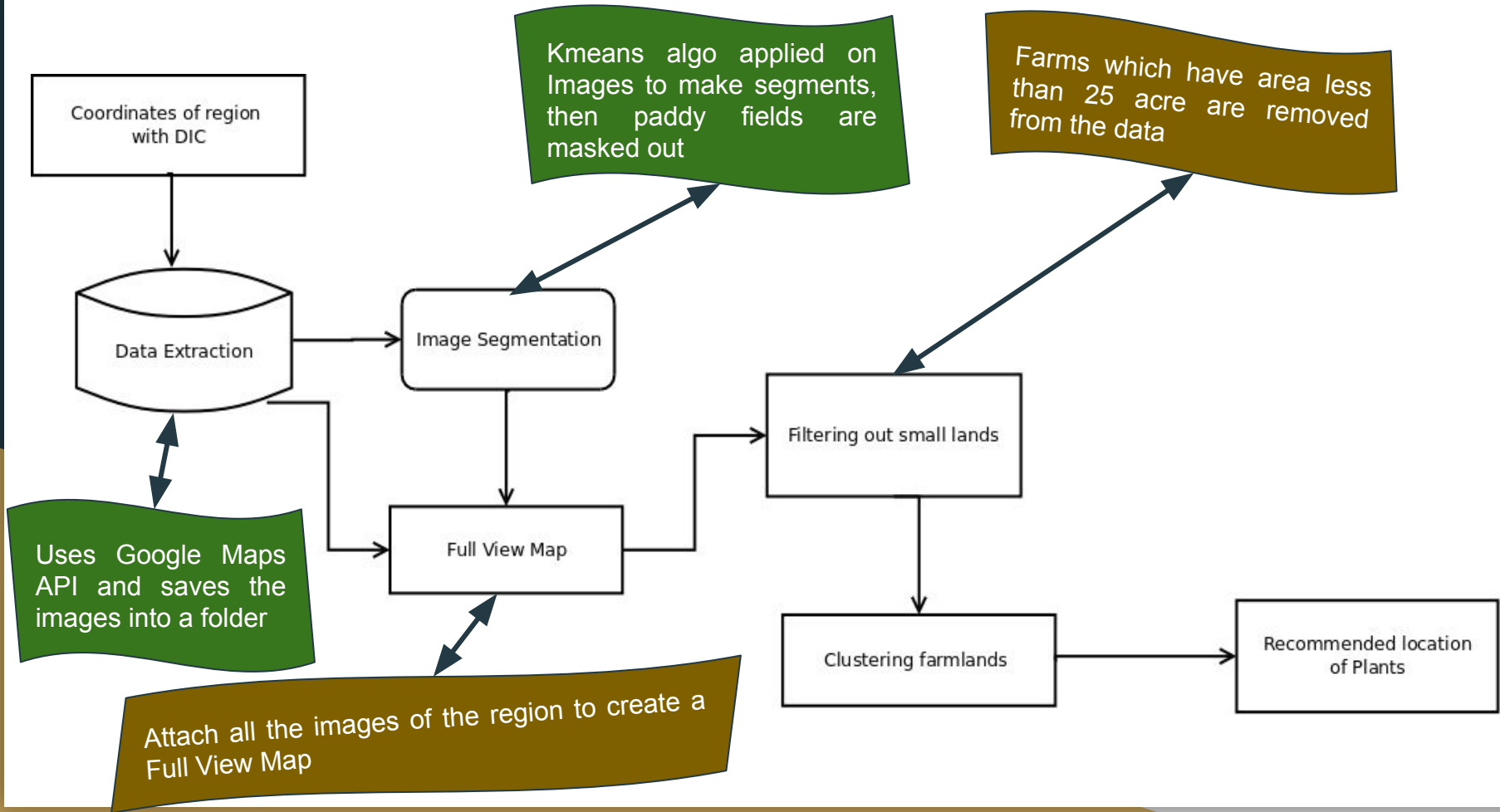
The Pipeline

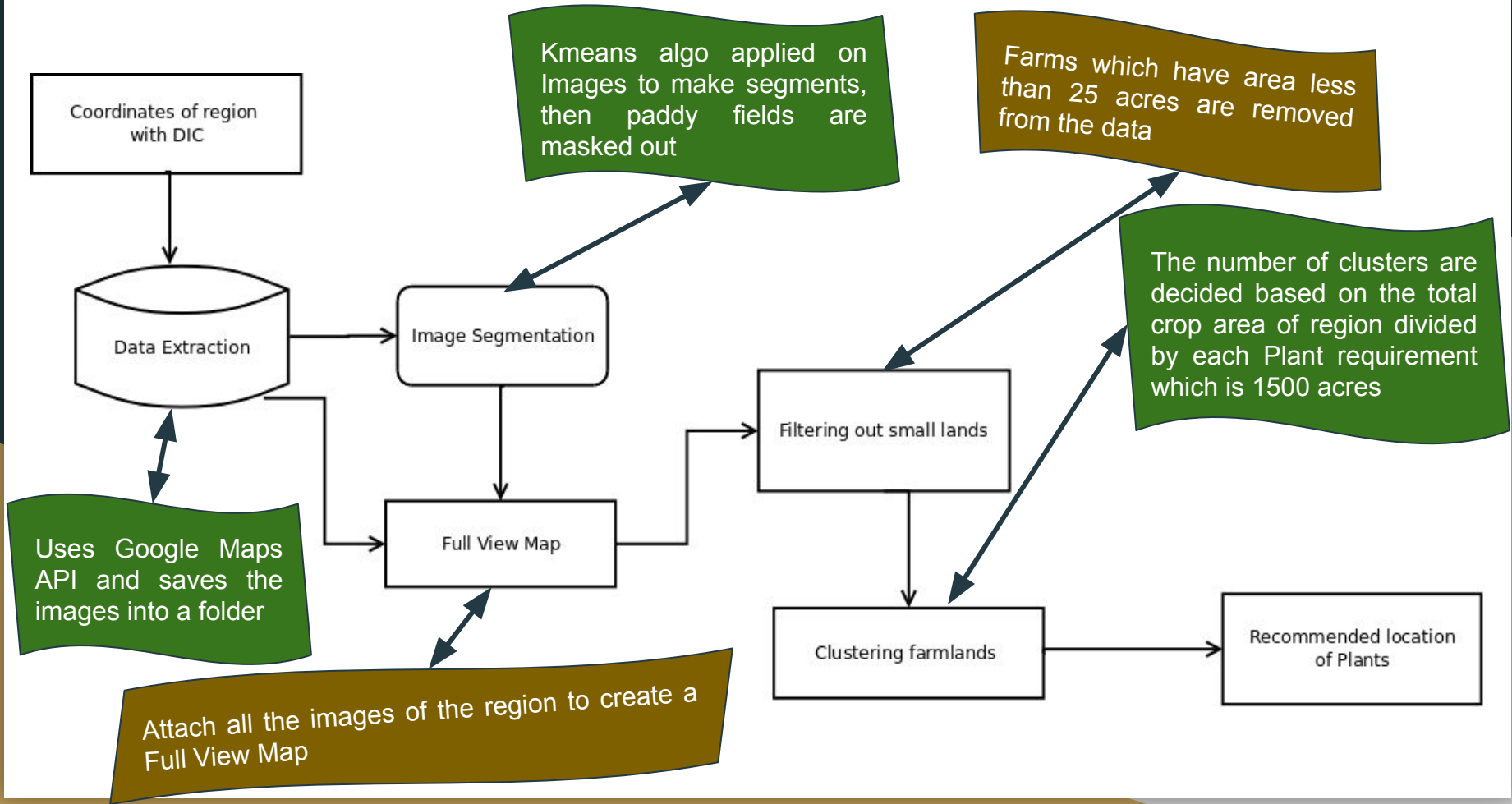


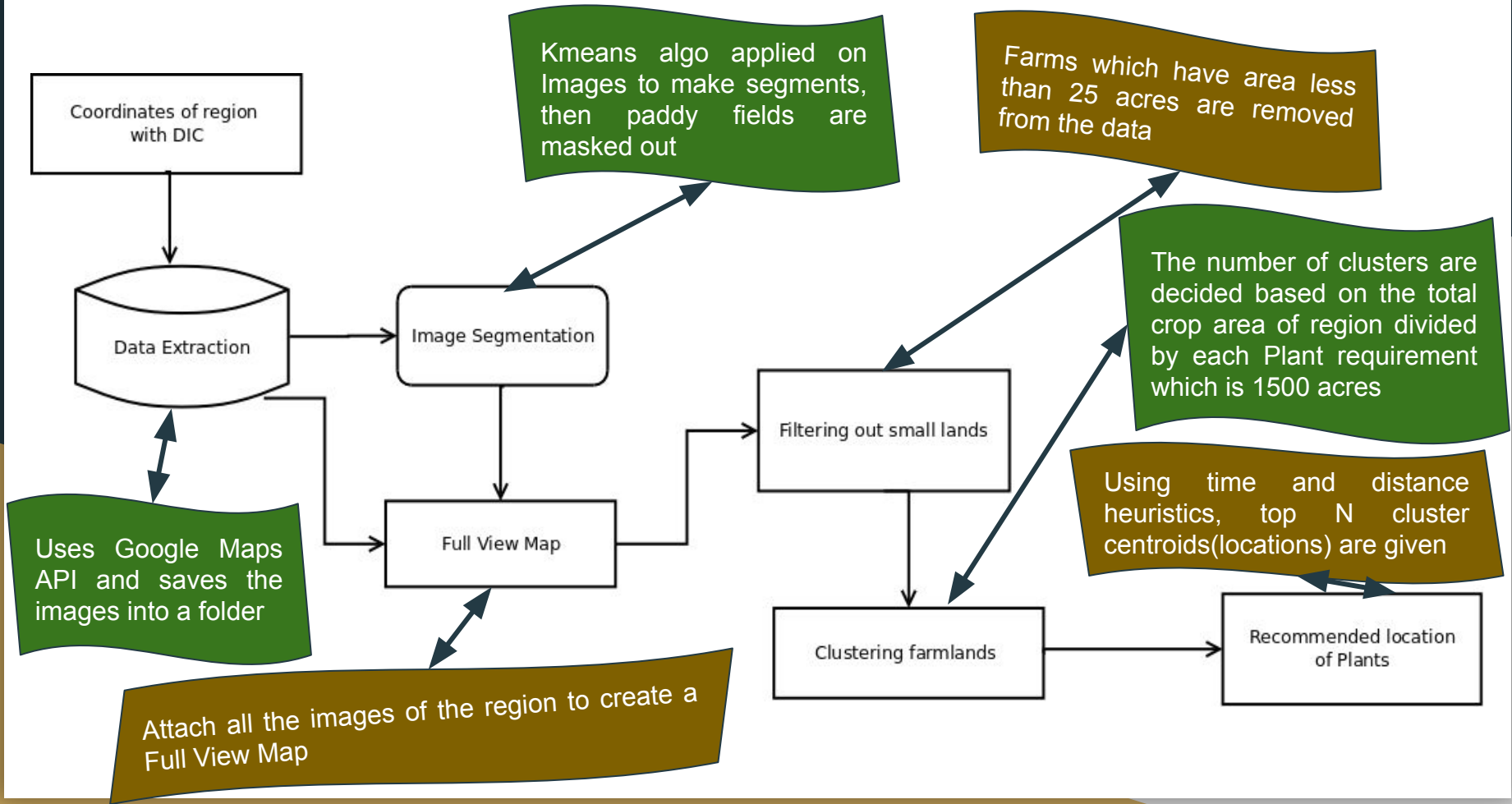












Conclusion

- ❖ Reduces Transportation Cost
- ❖ Increases employment for workers
- ❖ Reduces human labour by large amount to decide the location of Plant