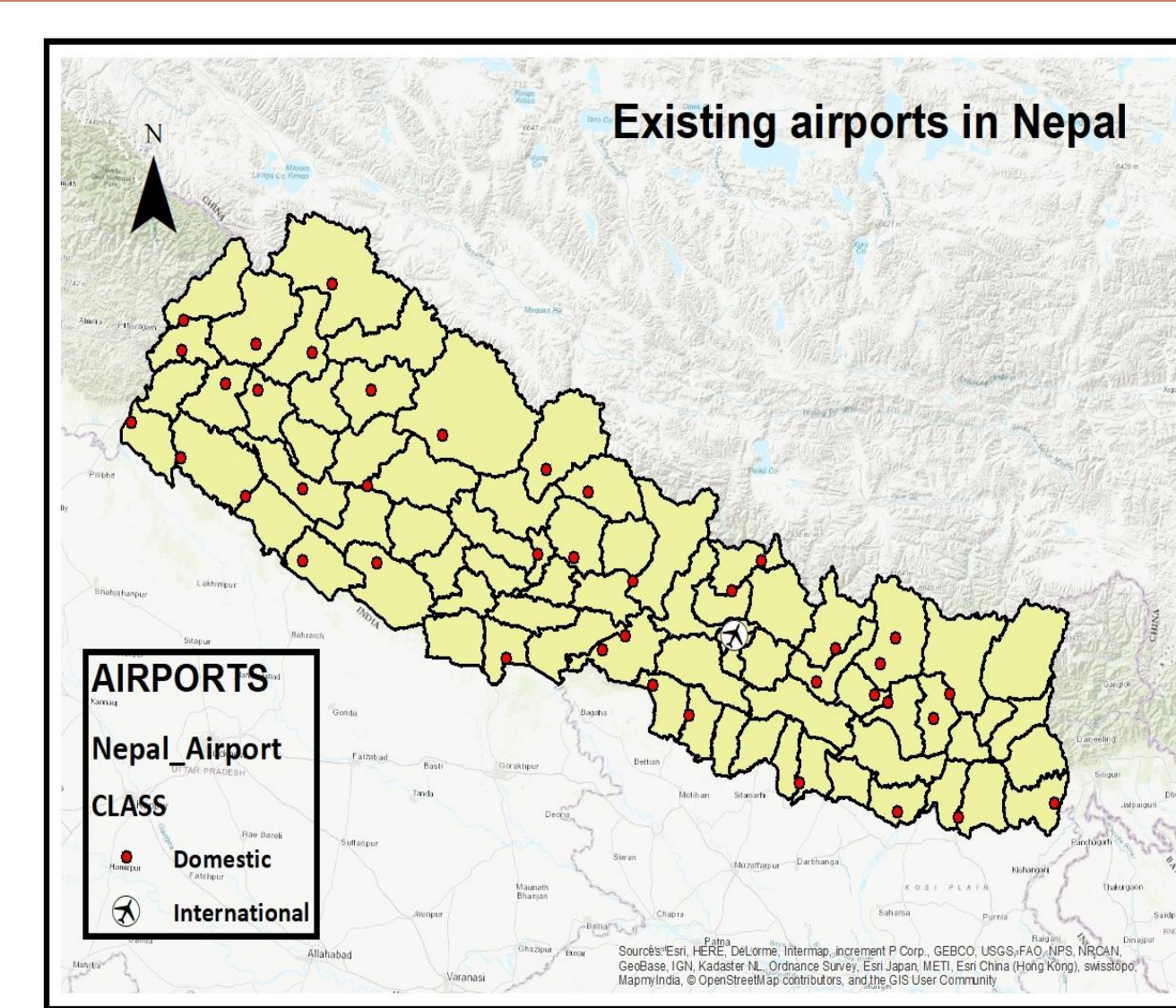


Airport Site Suitability Analysis- Final Project

Mohit Khadka, CE 547- GIS in Water Resource Engineering

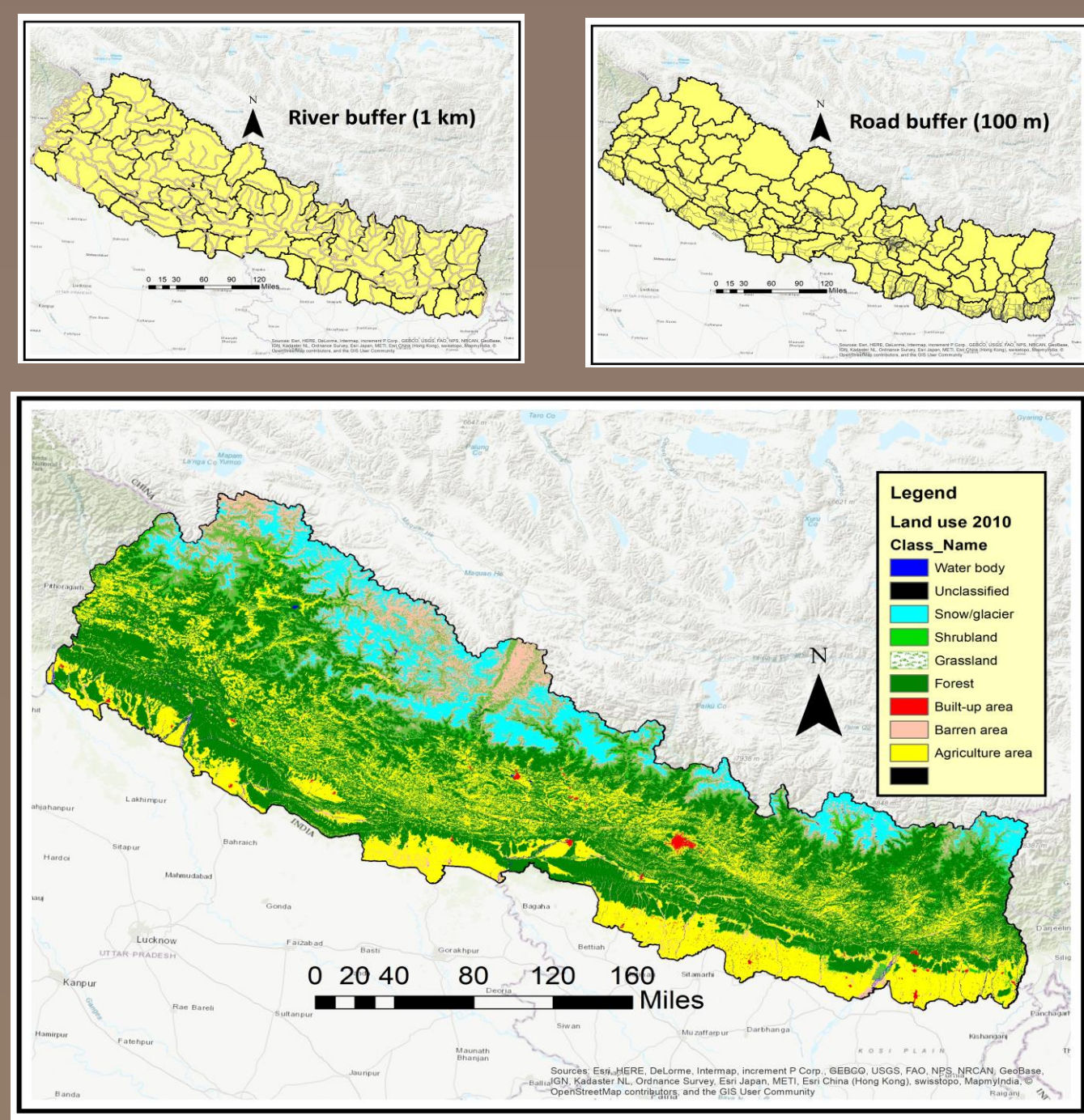
Introduction

This project was done to analyze the availability of suitable site for an international airport in Nepal. The major reason for this project was because of the present situation of airport in Nepal, which is in very primitive condition. Also, the fact that there is only one international airport in the entire country inspired me to carry out this project.

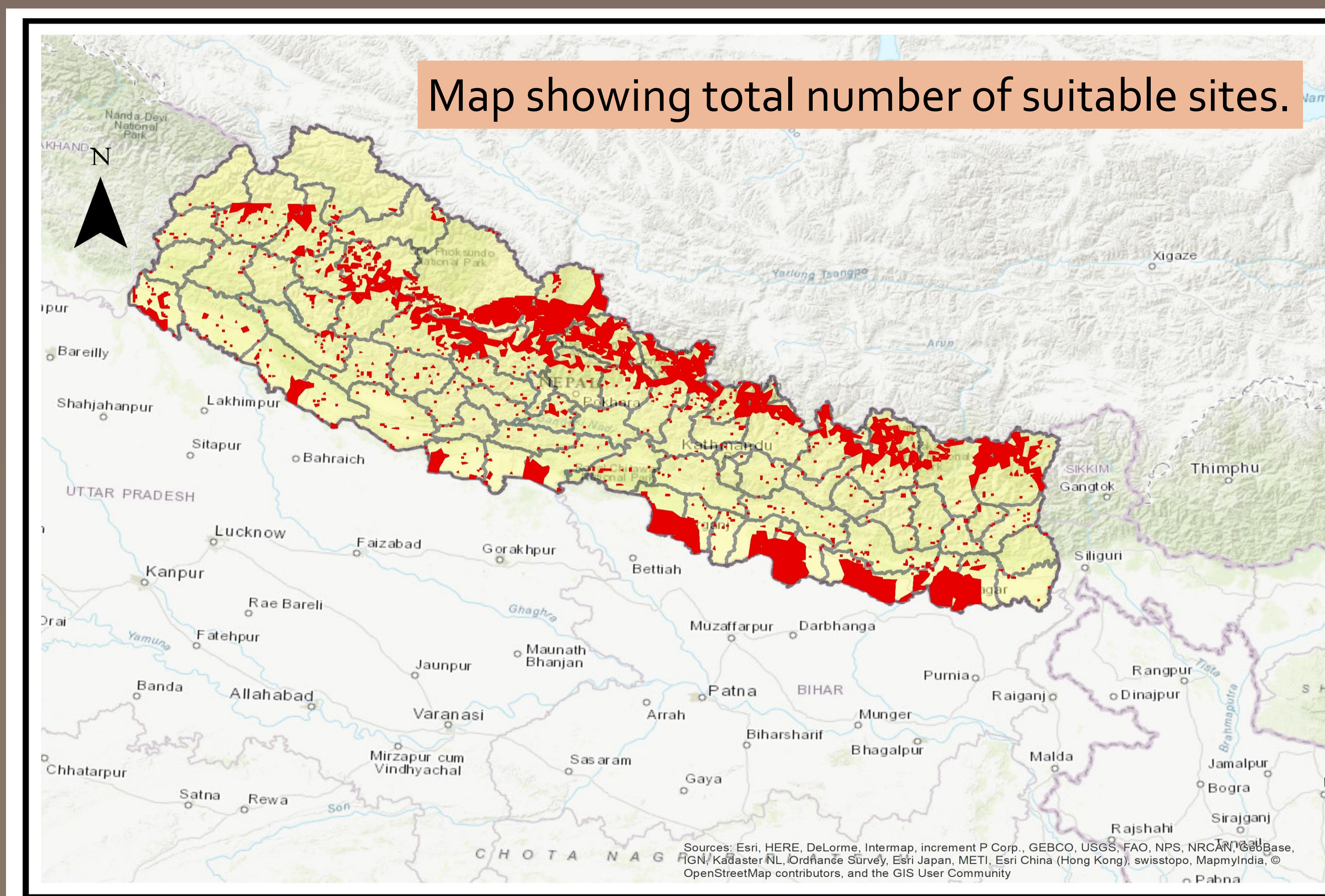
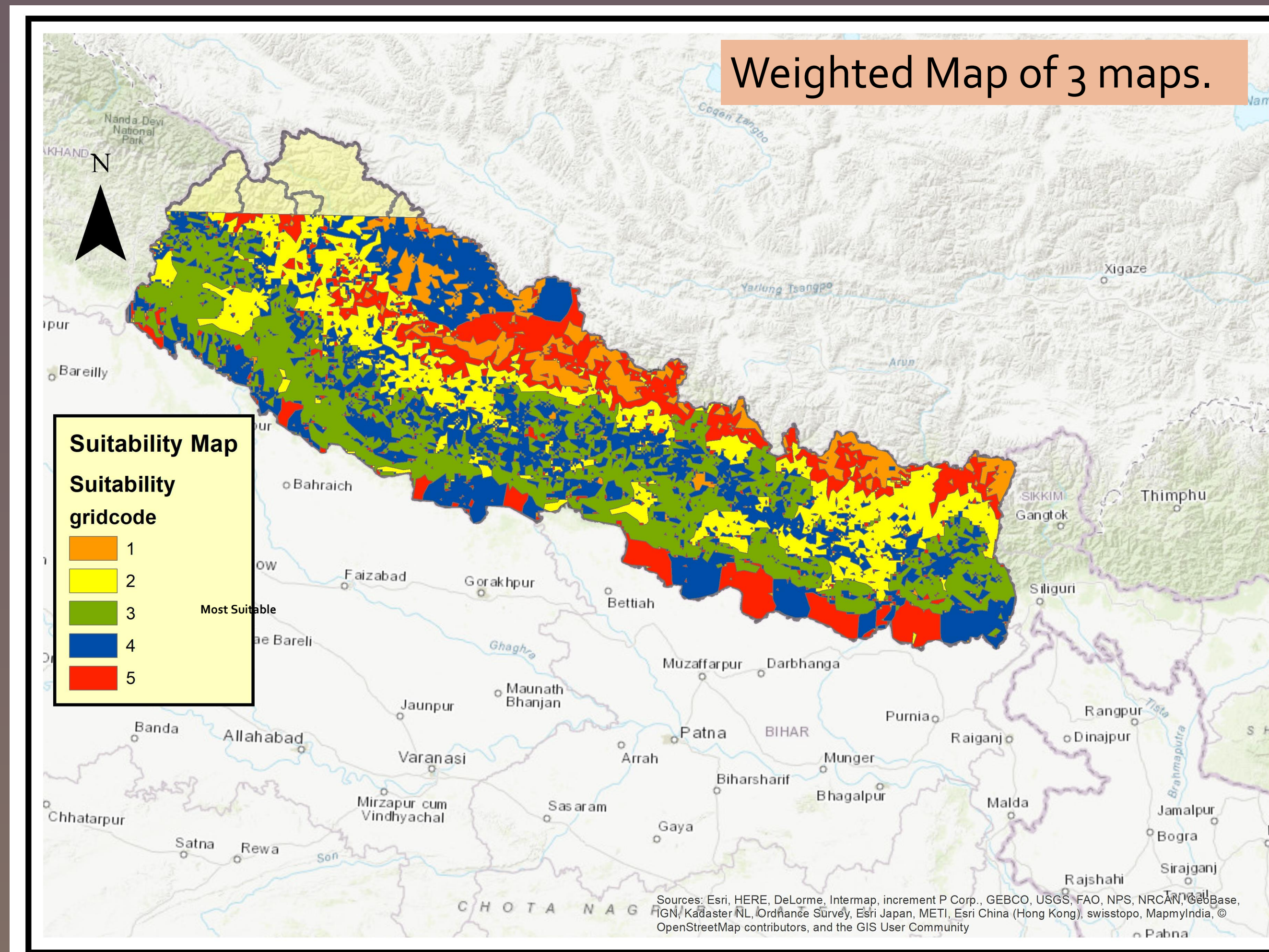


Methods & Materials

ArcGIS was used to do this project. Rivers, roads and land use data was used. Different weightage was given to these three data to get the final map.



Results



Conclusions

This shows the Nepal has enough suitable site for airport construction and wide variety of site can be selected considering different factors.

Future Work

The future work for the project could include slope analysis which would surely filter the areas from the northern mountain region. Another analysis could be to study the possibility of incorporating any existing airport to the proposed new airport for service purpose such as apron, hanger, signal locations, emergency teams, etc. Finally, after all that, economic feasibility analysis and its impact in the district of the location and country can be studied to check if the project is viable.

References

- ESRI
- International Centre for Integrated Mountain Development (ICIMOD)

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