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GIS planning to support “Kushillu Urku” Ecuador, Kichwa Amazon community

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Introduction.

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Introduction.

Looking for planning and procedures ensuring their territorial domain

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TYPE USE	Flora	Mammals	Birds	Fish
	886 uses	70 uses	54 uses	145 uses
TOTAL SPP	**366 sp.**	**28 sp**	**51 sp.**	**141 sp**

Biodiversity is losing

4 spp. People has now

20 spp. Must be

50 spp. People used to have





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OBJECTIVE.

Use Participatory GIS, GPS and community mapping techniques to support the community called *Asociación de la Nacionalidad Kichwa Agroecológica Kushillu urku –ANKAKU* (Agroecological Indigenous Association) in their planning processes within necessary procedures ensuring their territorial domains.

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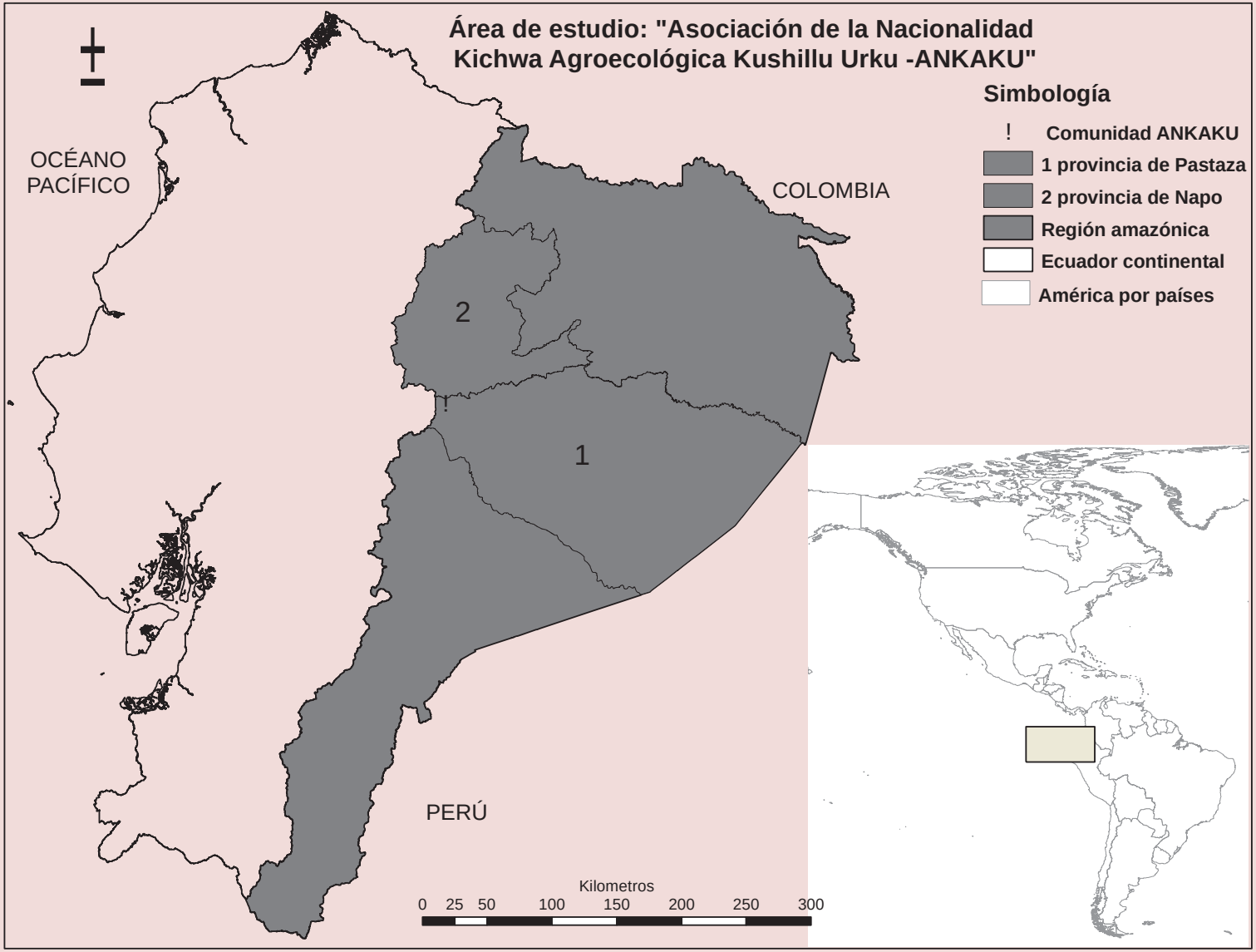
MATERIAL & METHOD.



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MATERIAL & METHOD.

- Participants: ANKAKU, Kichwa amazon community.
- Skills and material:
  - Software ArcView 9,3
  - Shapefile Ecuador 1:50000 (INEC 2011), datum PSAD 56, zone 17 South.
  - Image Landsat 7, Pastaza
  - GPS navigator Garmin 76
- Procedures: Community mapping; exploration; workshops; Flora, mammals and birds Inventories by transects; community assemblies; Ordinary Kriging interpolation by mean; Overlay, Simetrical difference.





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MATERIAL & METHOD.

- Ordinary Kriging Interpolation by mean measures
- Assigned values to GPS data collected:
  - Factor 8: Petroglyphs, ancient presence
  - Factor 7: sacred place, primary forest, fauna concentration by salt, falls
  - Factor 6: abundance of hunting
  - Factor 5: resources
  - Factor 4: houses
  - Factor 3: borders
  - Factor 2: roads
  - Factor 1: neighborhood

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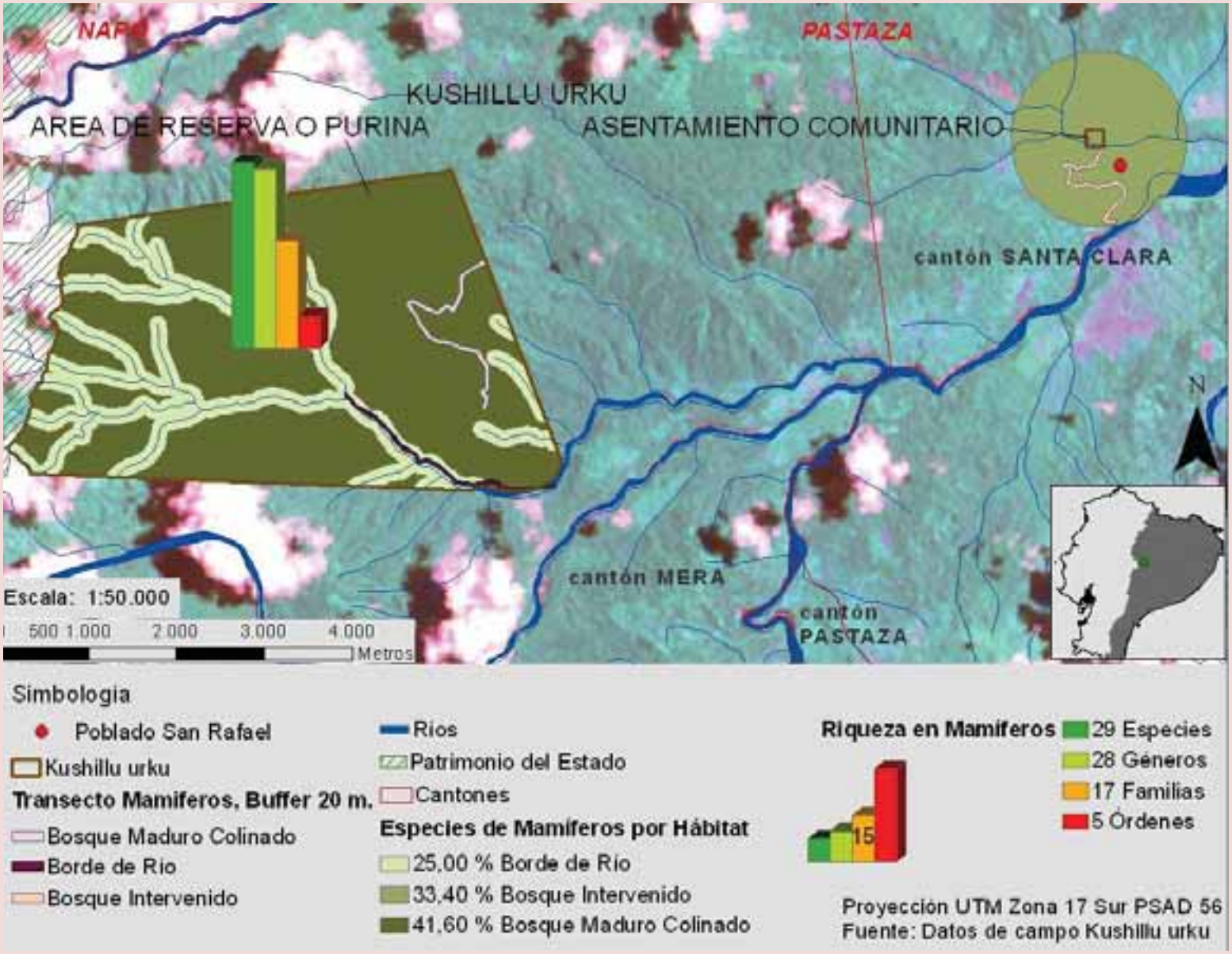
Results and Discussion.



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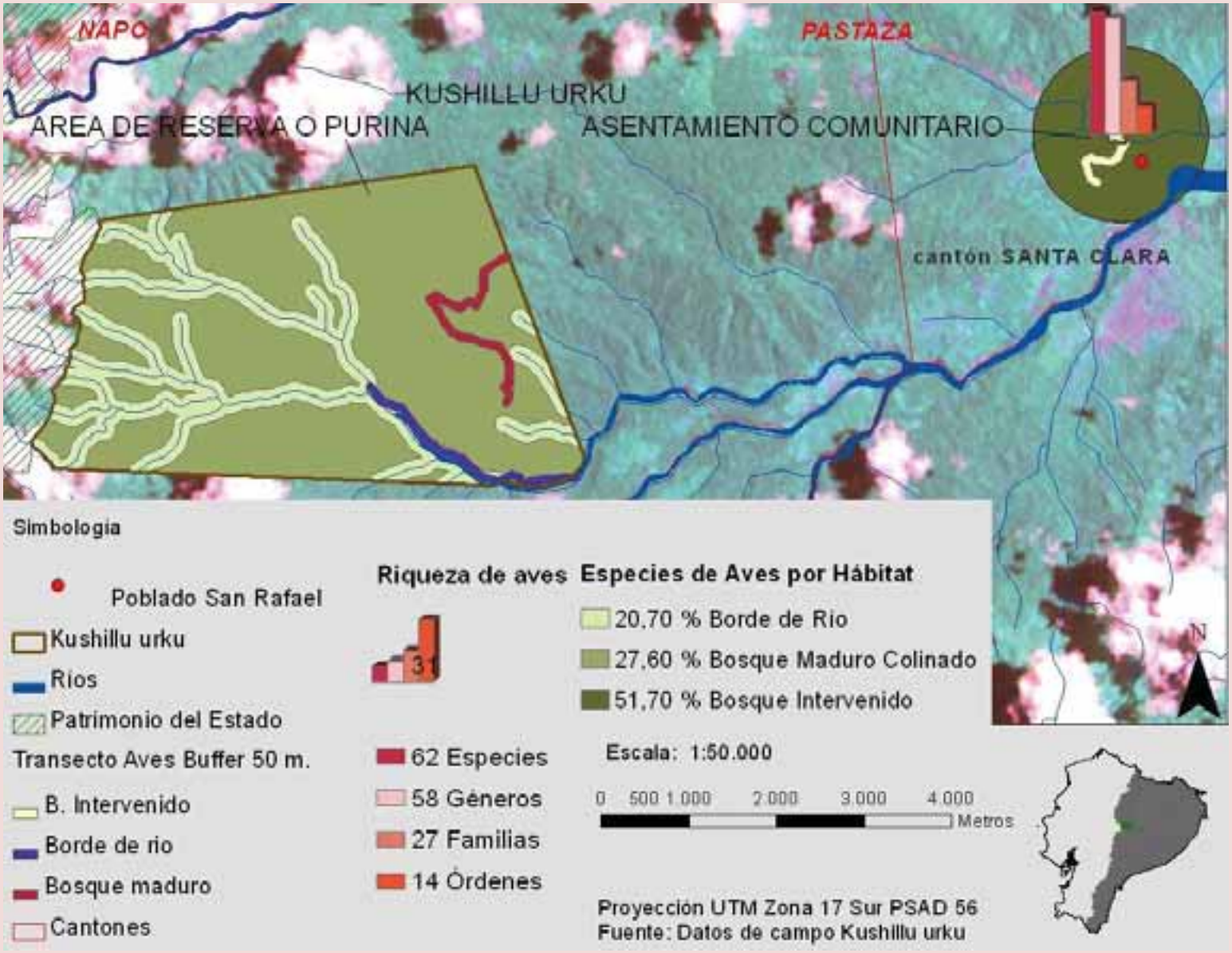

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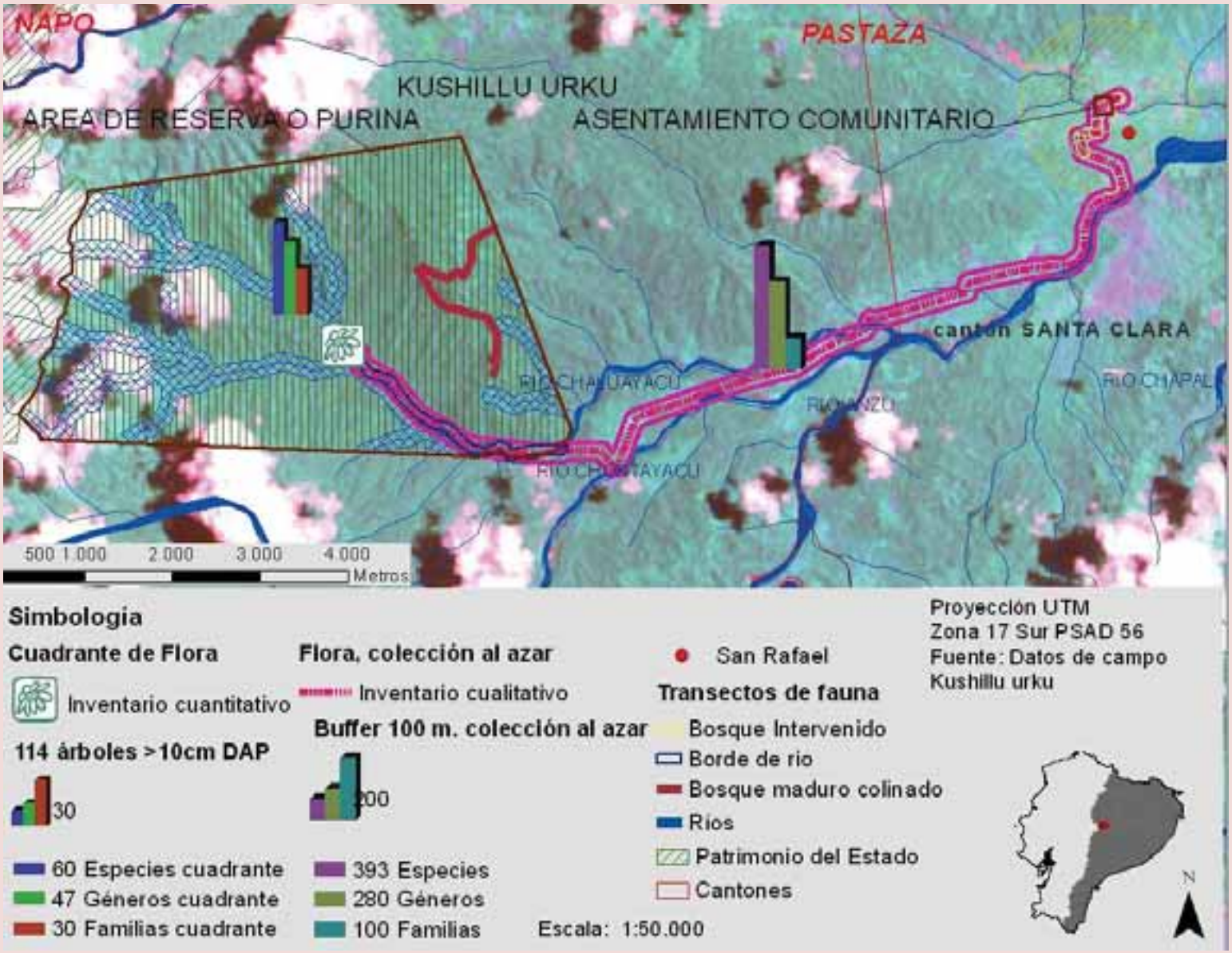

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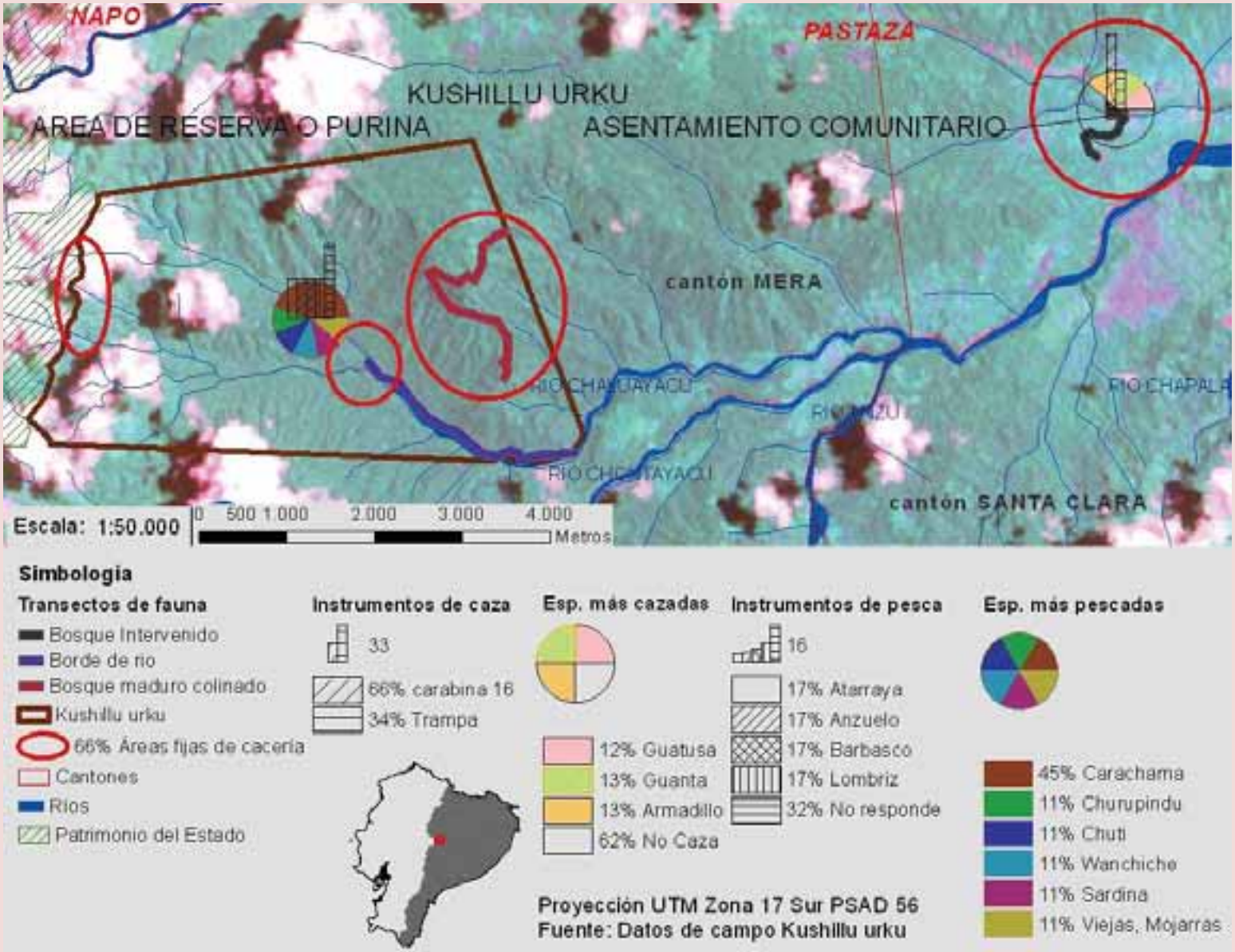

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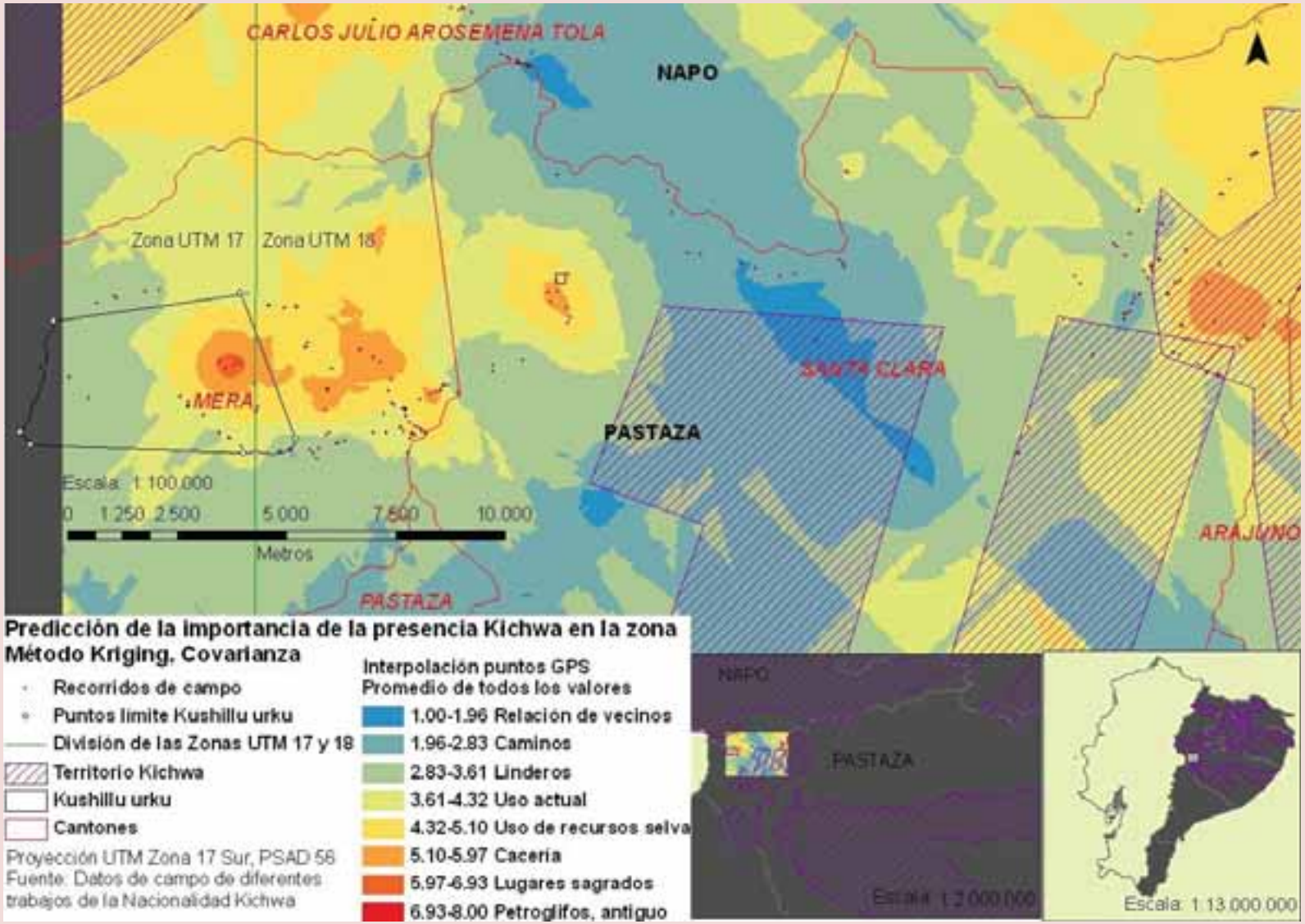

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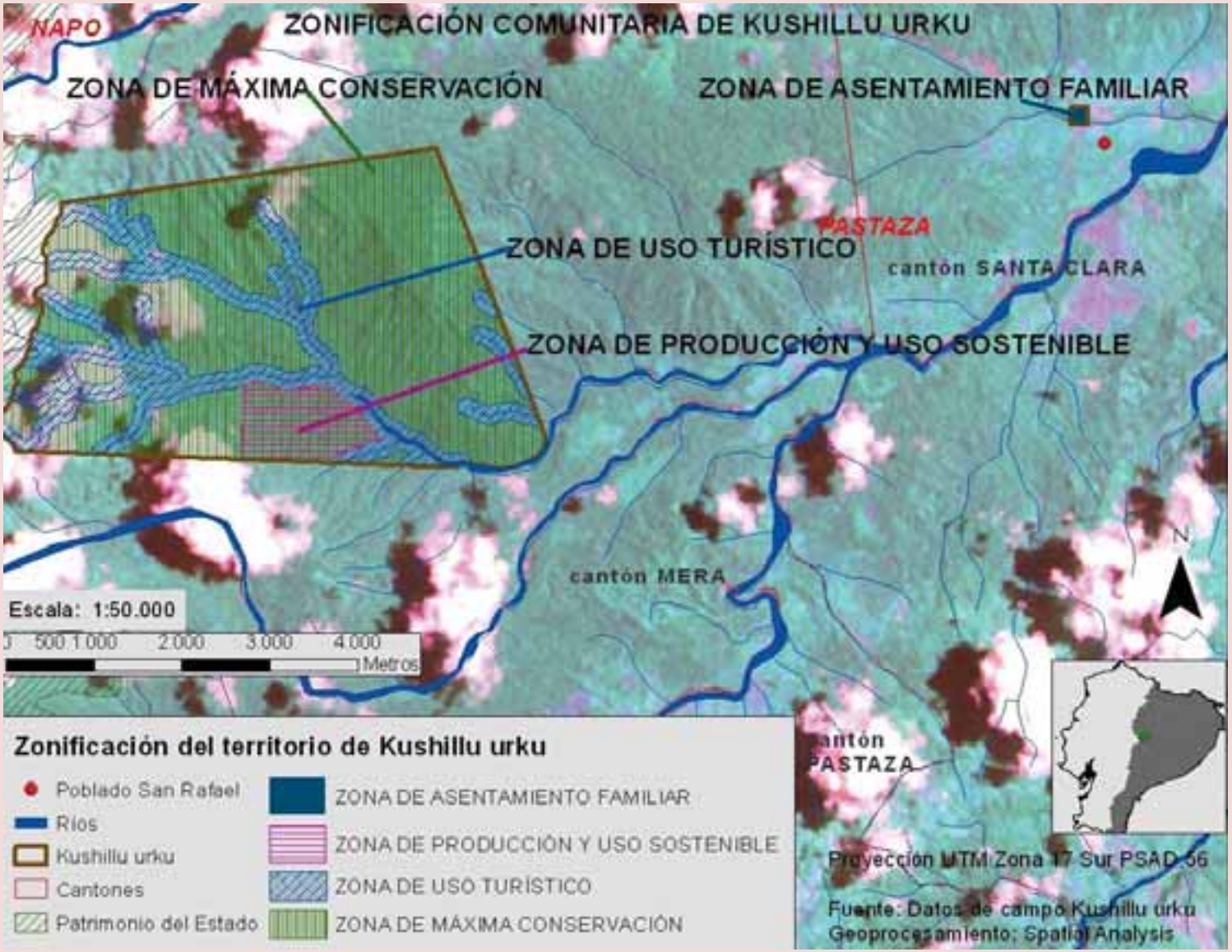

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CONCLUSIONS.

- It is possible and convenient to use participatory GIS, GPS and community mapping techniques to help community's interests in their planning processes to get and to defend their territory.
- Ecuador is a mega diverse place: flora, fauna and birds richness.
- There are an very old Kichwa presence in those territories that communities are fighting for legal property's papers.

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