

# LAND USE AND LAND COVER AS A CONDITIONING FACTOR IN LANDSLIDE SUSCEPTIBILITY: A LITERATURE REVIEW

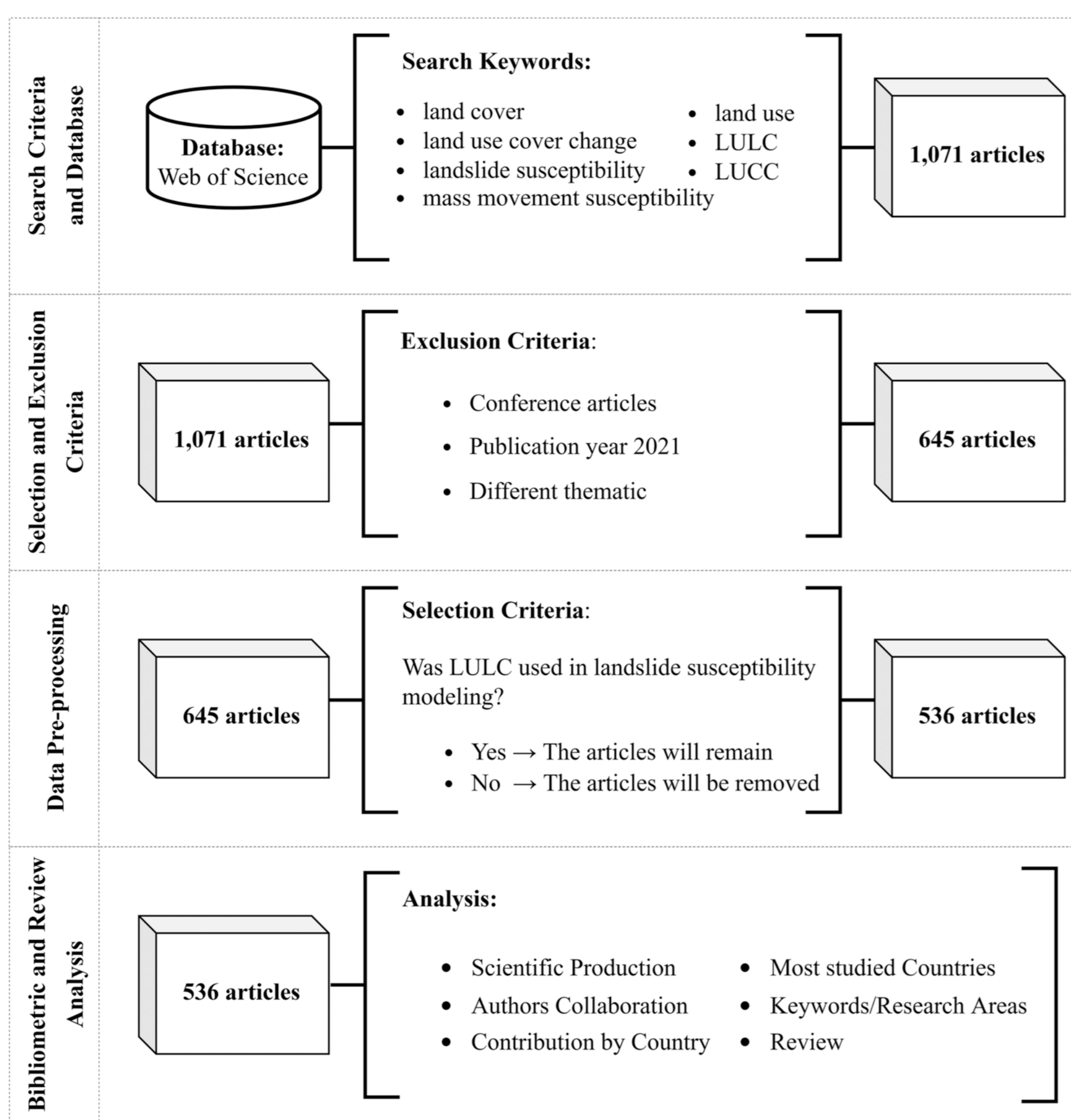
## PROBLEM

Landslide occurrence has become increasingly influenced by human activities. Accordingly, changing land use and land cover (LULC) is an important conditioning factor in landslide susceptibility models.

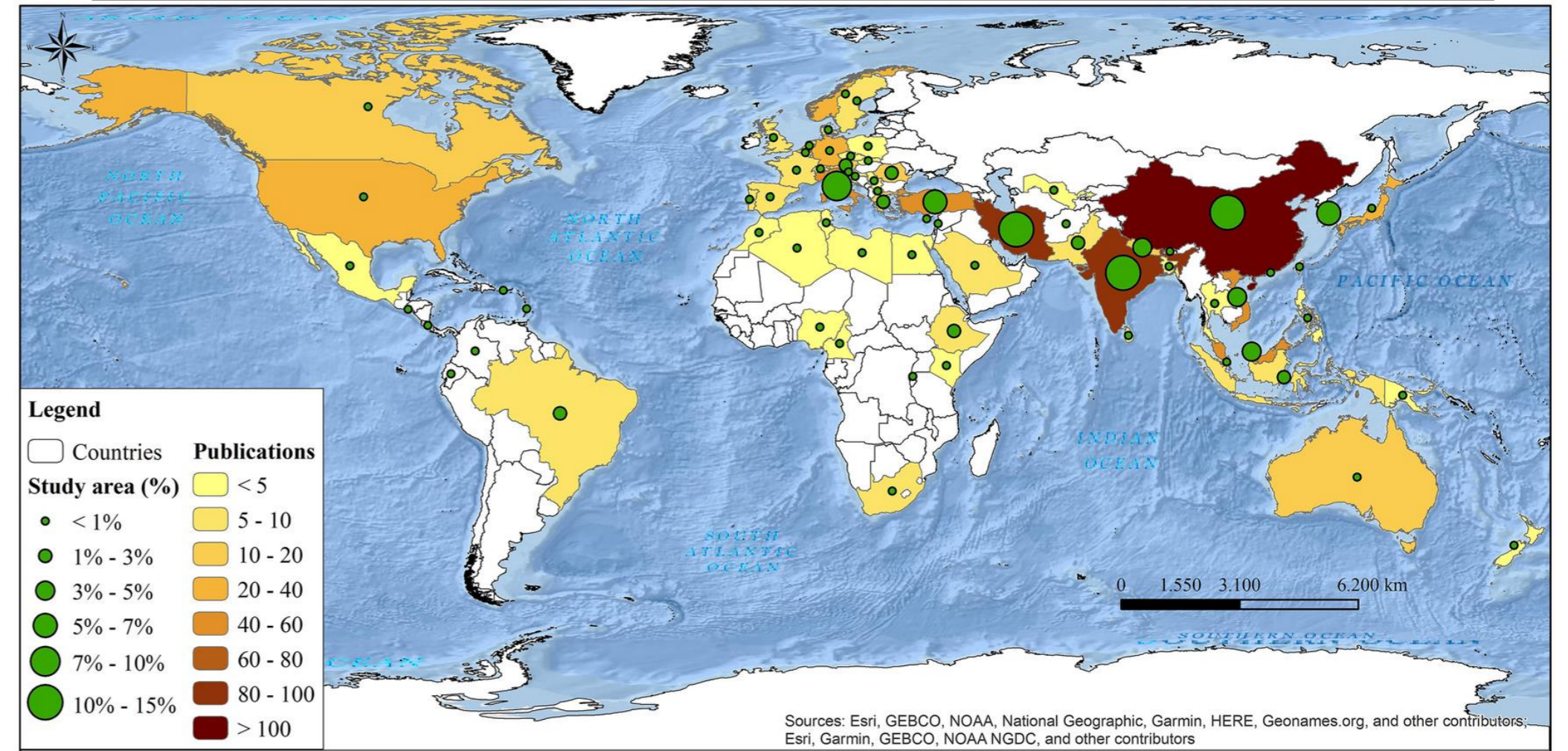
## MAIN OBJETIVE

We present a bibliometric analysis and review of how LULC was explored in the context of landslide susceptibility in 536 scientific articles from 2001 to 2020.

## PROPOSAL

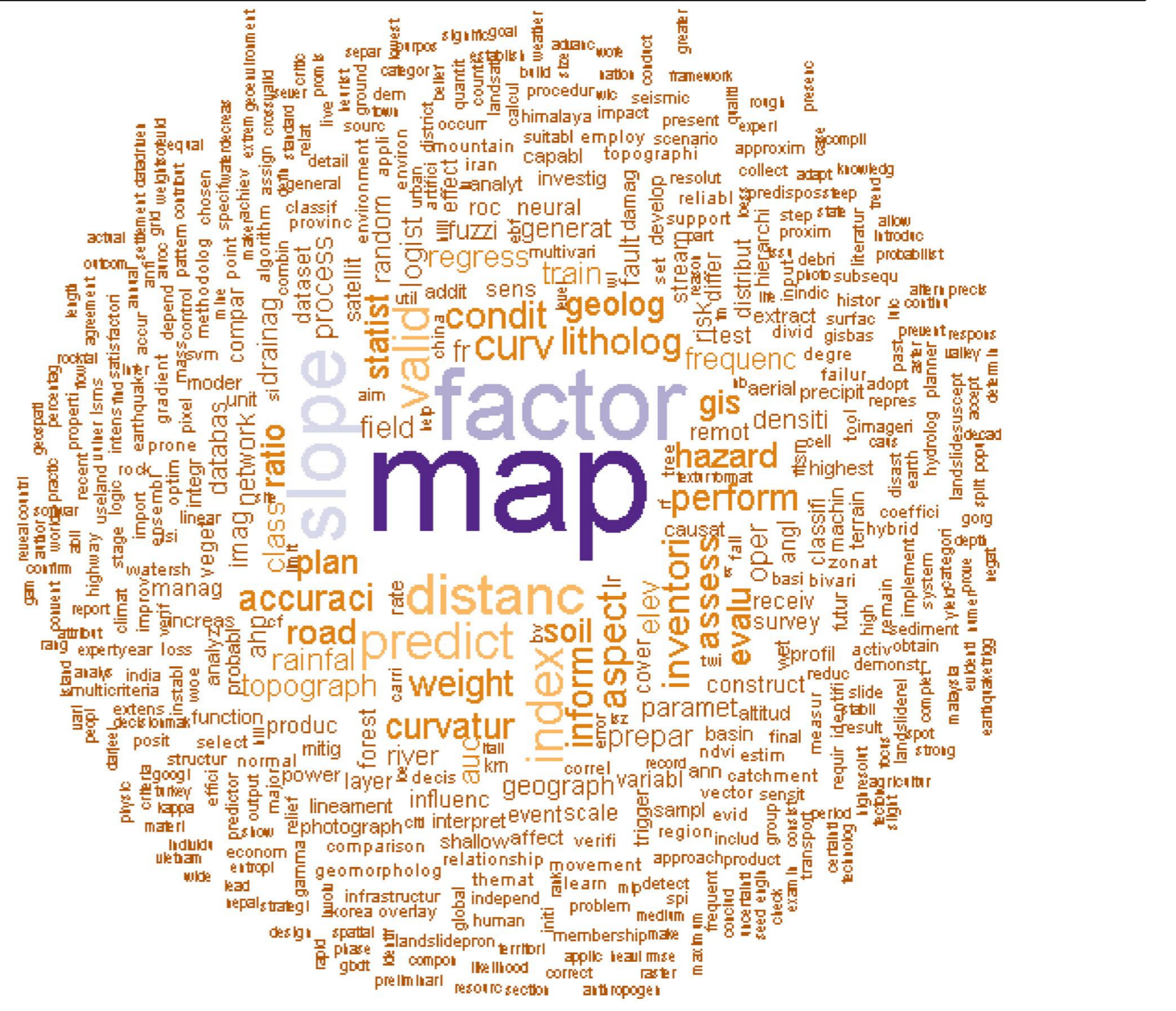


Comparison of most studied countries and national research output on landslide susceptibility and LULC

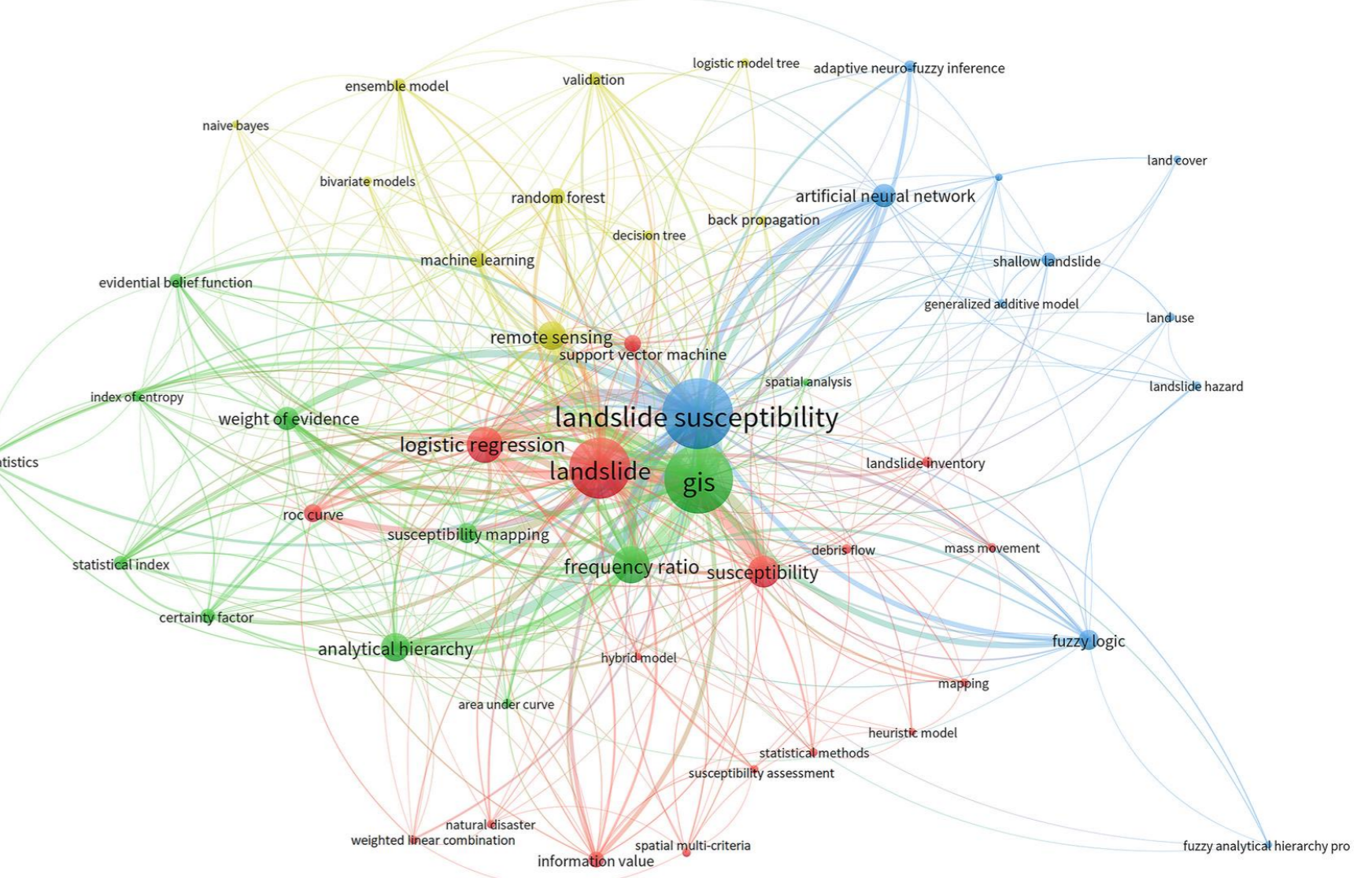


## RESULTS

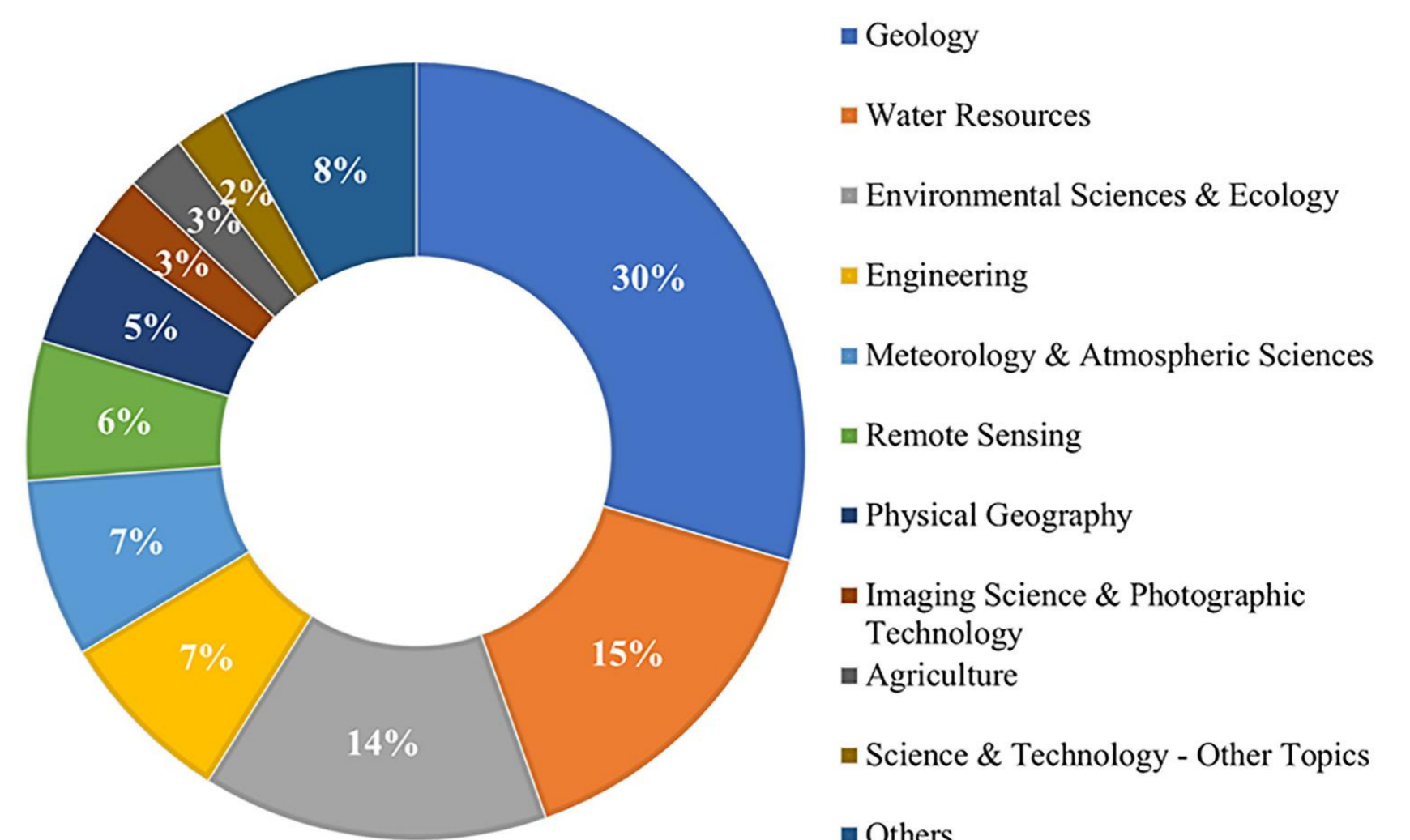
Word cloud of the most frequent terms in the 536 abstracts of studies on landslide susceptibility and LULC.



Co-occurrence network map of keywords



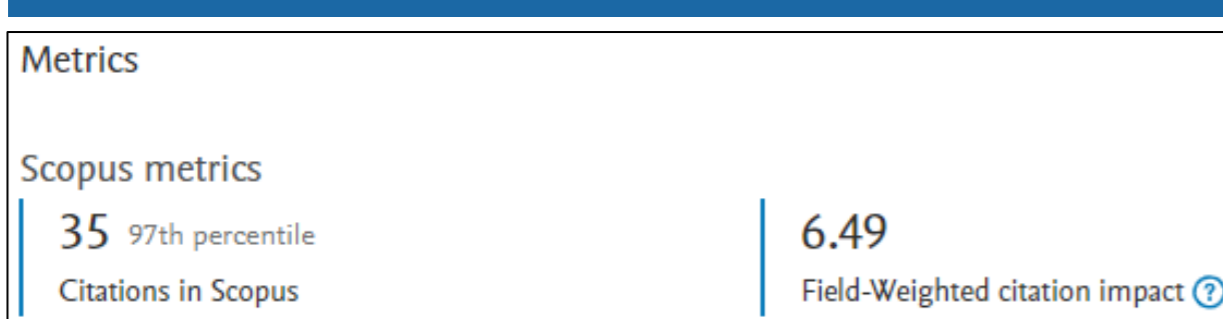
The ten most-frequent WoS research areas



## CONCLUSIONS

- We highlight several articles concerned primarily with current practice and future scenarios of changing land use in the context of landslides. The relevance of LULC in landslide susceptibility analysis is growing slowly, though with much potential to be explored for future LULC scenario analysis and to close gaps in many study areas.

## ACKNOWLEDGMENTS



This review has 2 Policy Citations.

Washington State Department Of Natural Resources  
14 de marzo de 2024 | State of Washington

Dokumentationsrapport. Observationer i samband med slamströmmen i Mörviksån, Åre, 7-8 augusti 2023, SGU-rapport 2023:11  
8 de septembrie de 2023 | Sveriges geologiska undersökning

