

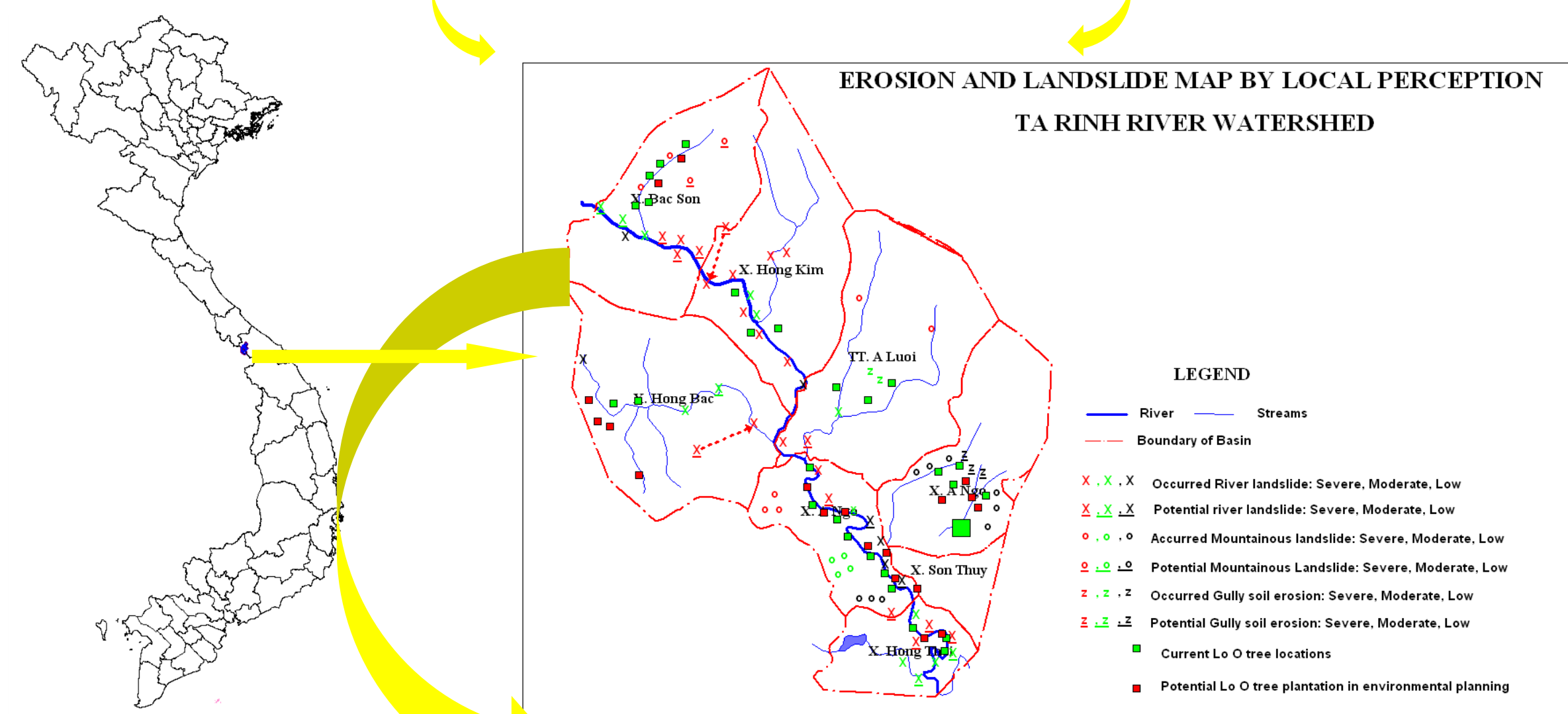
INTEGRATION OF GIS-BASED MAPPING AND LOCAL PERCEPTION FOR ENVIRONMENTAL PLANNING

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- A decision support model assisted by GIS and remote sensing is very useful, but it may be insufficient to formulate an effective planning without involving the participation of local people.
- The aim of this research is to design and implement a framework for erosion and landslide protection planning at community level in central Vietnam.

WHY DESIGN THIS MODEL?

- Top-down environmental planning process in upland districts in Vietnam is not really effective
- Planning without local participation leading failed and mostly selected expensive measures

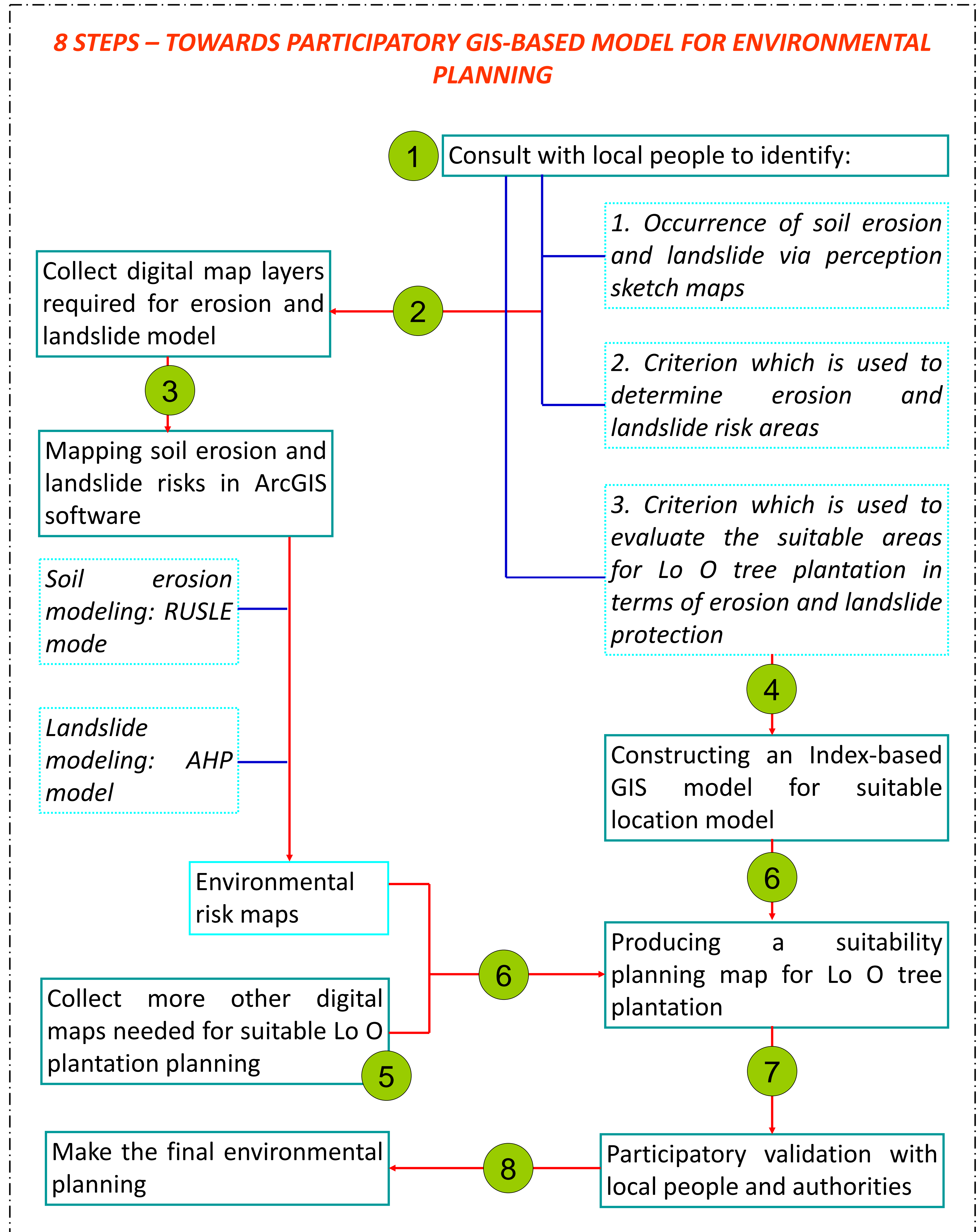


Lo O plantation planning map in Bac Son Commune

Selected locations for Lo O plantation planning

DISCUSSION AND CONCLUSION

- 8 steps: An effective way to make participatory environmental protection maps
- Local knowledge is very crucial and useful for making environmental planning
- GIS supports well to ensure the accuracy of spatial distribution and modeling environmental phenomenon
- However, need higher quality data to have better modeling, and a community-based Lo O plantation model for long-term environmental planning management.



LO O (BAMBOO) TREE - ITS VALUES



River bank protection



Trunks waiting for selling



Bamboo chopstick, toothpicks manufactures



Effective protection for dry crops



Lo O tree delivery in Hue City



Goods produced from Lo O tree trunks

