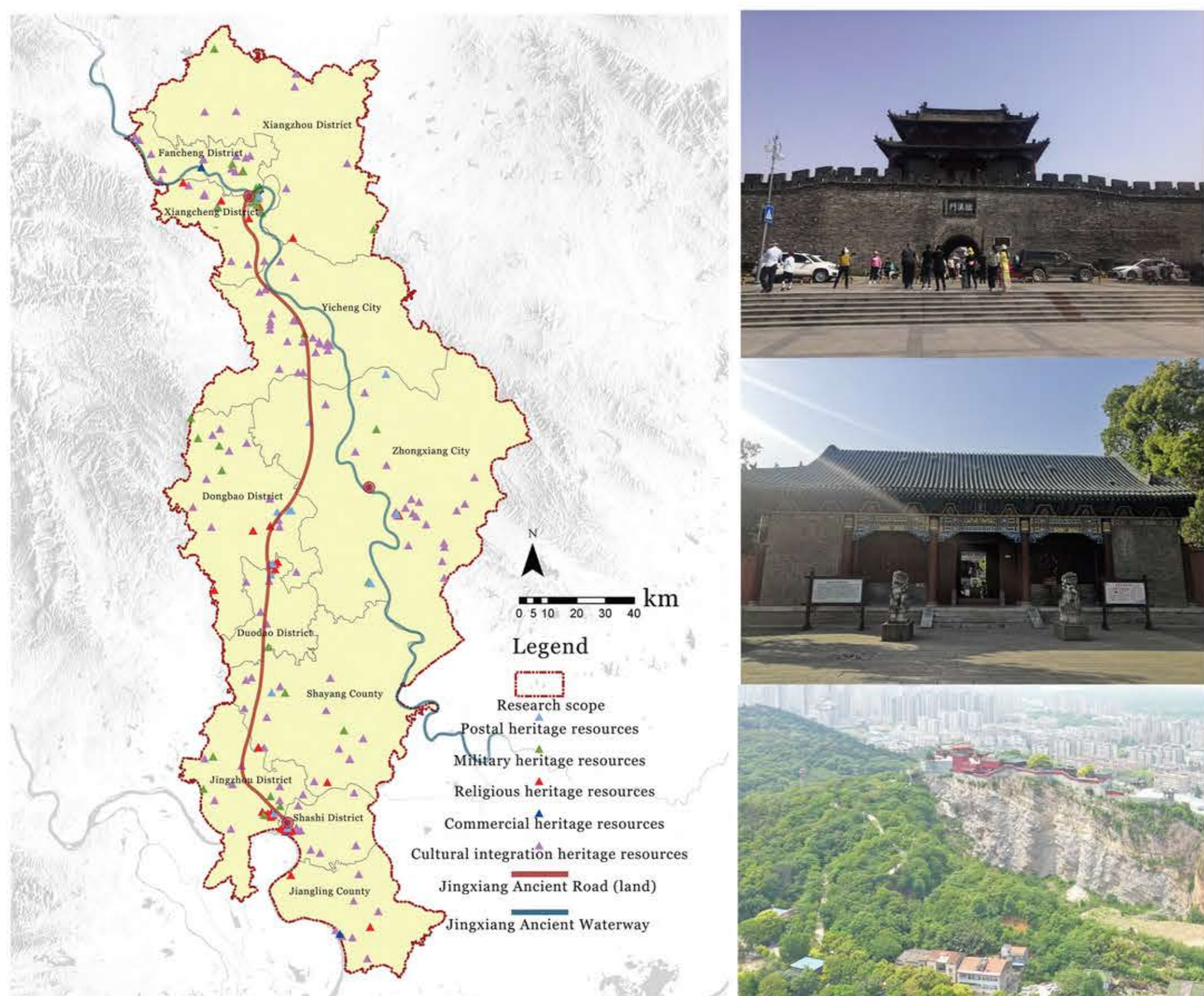


Building the connection between planning and design through multi-objective synergy: A heritage corridor study of Jingxiang ancient road, China

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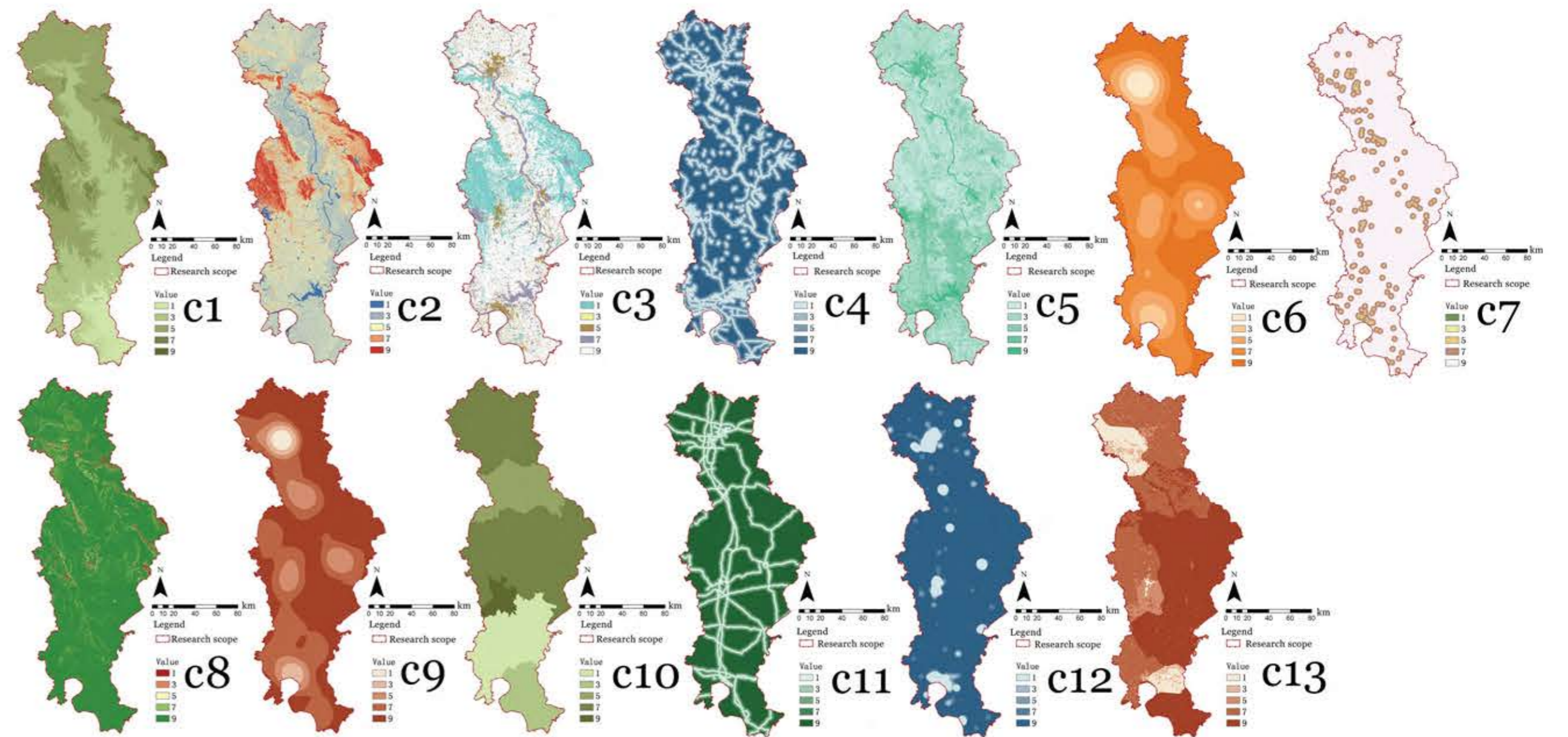
Abstract: Generally, there are differences in scale between planning and design; however, there are similarities in objectives. Combining these goals and finding the synergy and subordination of each purpose is one of the essential methods in building the relationship between planning and design. Jingxiang ancient road has been an important transportation route in ancient Chinese history. It undertakes the functions of regional religious dissemination, commodity trade, military route, etc. Important historical relics are distributed along the ancient road, which possesses potential value in building heritage corridors. In the planning and design process of the Jingxiang ancient road heritage corridor, this study constructs the overall goal framework. It decomposes the overall goal into three primary goals, and each main goal includes several sub-goals. Under the analysis framework, this paper determines the interaction between the goal and its sub-goals. Moreover, it discusses the implementation of planning and design tasks under the guidance of each goal to realize the overall protection and utilization of the Jingxiang ancient road.



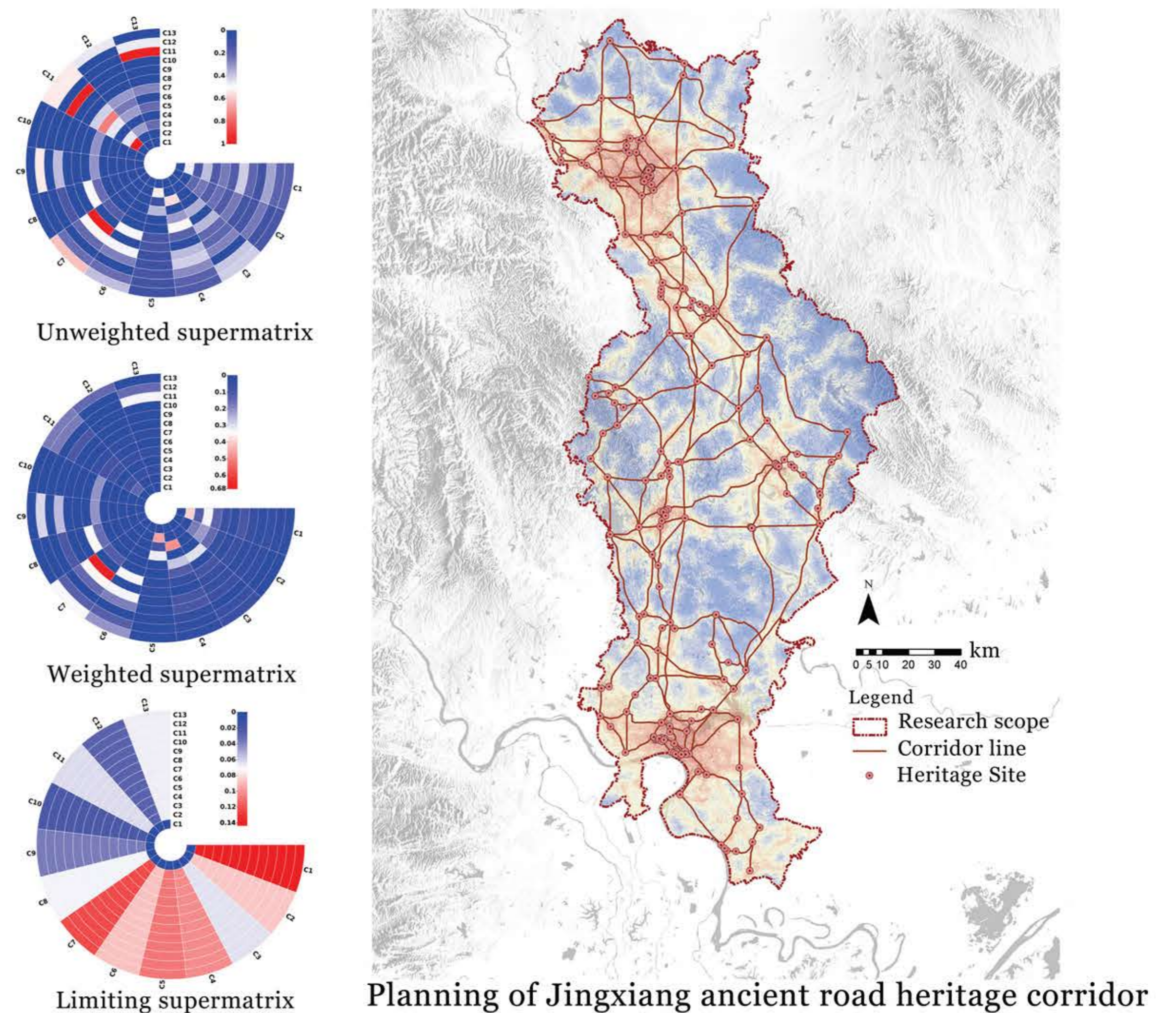
Location of Jingxiang ancient road and distribution of heritage resources

Status of some Heritage

Planning factor layer



The heritage network is constructed by the minimum cumulative resistance model method (MCR) and the Analytical Network Process (ANP).



Planning of Jingxiang ancient road heritage corridor

Overall objective framework

Planning target

Design target

Design strategy

