

### **OVERVIEW**

The riparian area of Archaia Olympia has outstanding cultural significance since it is the birthplace of the Olympic Games and athletic ideals. It is, also, characterized by a natural environment of great importance due to the fact that Alfeios River runs through it. Frequent flood events in the area have provoked many damages (i.e. ancient city of Olympia destruction by a massive layer of flood deposits) and, since nowadays, have led to severe economic and social impacts and high-cost flood protection works.

The importance of flooding in the studying area is demonstrated by flood protection works identified in the region since 1500 BC [1]. Pausanias scripts refer to flood contribution to high agricultural productivity in the area.



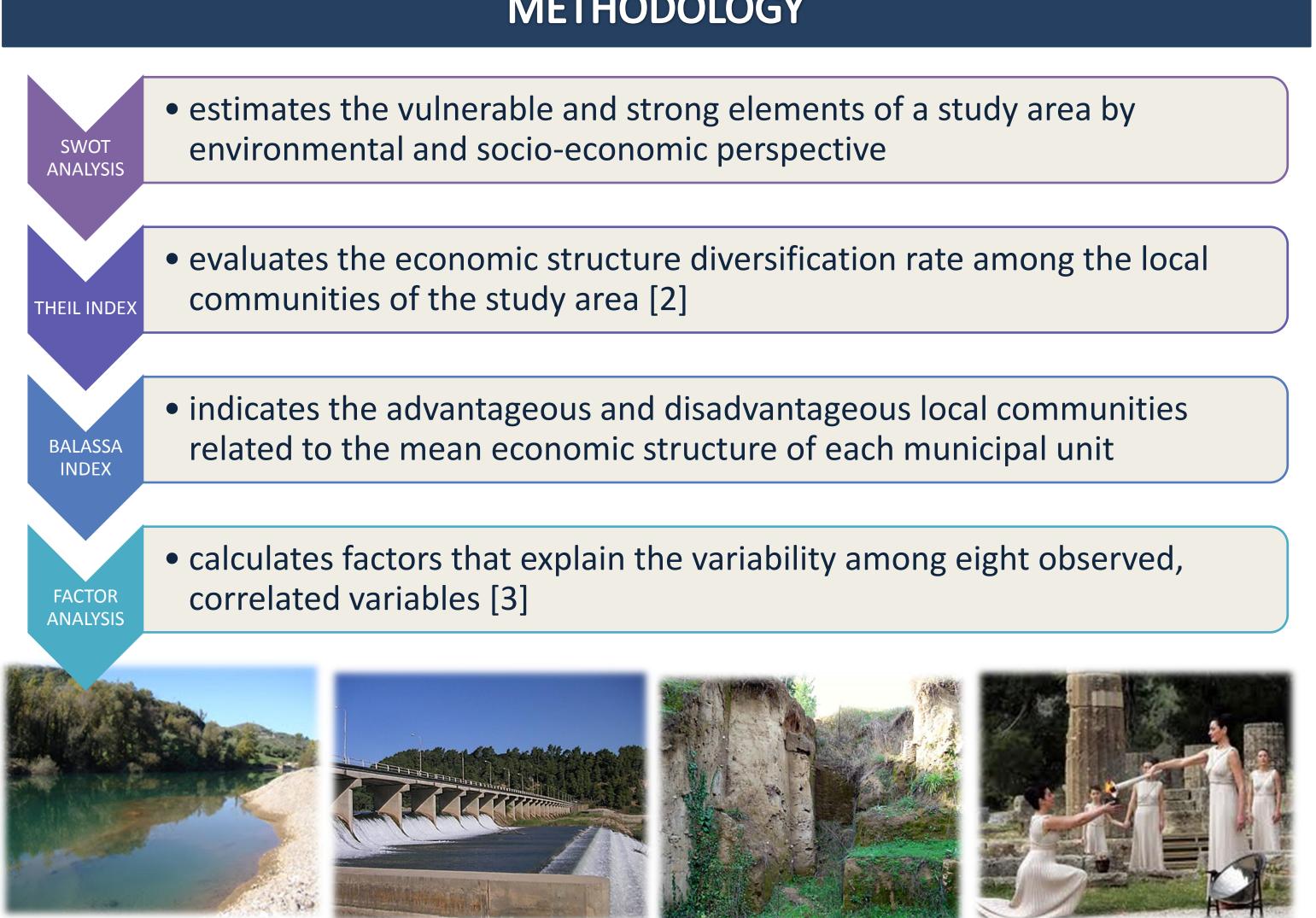
Recognizing the significance of the region for the developing economy and environmental sustainability, strategic management plans and flood control policies must be drawn up.

The main objective of this study is to identify the vulnerable local communities where the economic and social flood impacts are important. SWOT analysis, Factor analysis and Spatial analysis methods are proposed as policy tools, which contribute to decision-making processes. Understanding the adverse effects of flooding on development activities such as farming, tourism could assist in recognizing communities that need proper indemnifications and policy measures.





## METHODOLOGY



# Flood impact assessment on the development of Archaia Olympia riparian area in Greece

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