Development of tourism sector in East Nusa Tenggara Province is an important thing to be done. This is supported by statistical data which showing that the province of East Nusa Tenggara is one of the prime tourist destination in Indonesia. One way of developing tourism in East Nusa Tenggara is providing information about tourism in East Nusa Tenggara to the tourist. It is needed an advance supported the existence of technological advances in the field of computerization that is, Geographic Information System or GIS in the field of tourism.

This research takes place in West Manggarai Regency where has many natural attractions and cultural potential and it expected to be developed to support the regional economic sector. Application of this GIS technology using ArcView 3.3 software allows mapping the distribution of tourist objects and analyzing the transport routes.

This research has succeeded in building a GIS application in the form of the distribution of tourist objects.
comprising the mainland of nature tourism, and culture, marine tourism, and the Komodo National Park. The other results in the form of pamphlets West Manggarai regency travel guides are informative and interesting so that it can be utilized by various circles. Besides, based on the analysis, it shows the routes of transportation that can link a tourist attraction that one with another tourist attraction, which is expected to help the tourists seek access to the objects of tourism and be able to become a benchmark for district governments in improving facilities and infrastructure and infrastructure in the development of a tourist attraction.

**Keywords**: GIS Applications, Object eco, and West Manggarai