ABSTRACT

NIA RACHMAWATI. Spreading and availability infrastructure in The South Tangerang City. Supervised by SETIA HADI and KOMARSA GANDASASMITA.

The expansion and development requires infrastructures in order to serve and support the activities in various sectors between regions. Integrated infrastructure system serves as the wheels of activities to spread and serve the needs of the region. The successful of regional development could be visible from the spreading infrastructure to serves region needs. Identification of spreading infrastructure could be visible from the amount of infrastructure require needs. Infrastructure related to distance and travel time. Number of Spreading, distance and travel time service on scale of region became the scenario planning the location of the region infrastructure. Indicator of region progress could be visible from the integrated infrastructure. The purpose of this study are to identify spreading of infrastructure, to evaluate the availability of the infrastructure, to analyze the access to the infrastructure, to learn the strategies of infrastructure development. The methods of This research are using the digitization of land use/land cover, calculating the spread of infrastructure based on population, spatial analyzing to access point and service areas and SWOT analyzing. The infrastructure that analyzed are: water supply, electricity, roads, basic education, public health, waste management, commercial and trade. The results of the analysis show the number of water spreadings in South Tangerang City located in North Serpong district are 5 points in Serpong district, 1 point in district Setu. The number of transmission substation’s spreadings are 71 points in region South Tangerang City. Spreading basic education, public health and waste management evenly in southern Tangerang City. Commercial and trade concentrated in one location. Analysis Descriptive use to view availability of water supply in service area including Serpong district, Alam Sutera and Bintaro Jaya sector 9. Six districts in South Tangerang City are not provided water from taps. The increasing number of substations spreading are needed to prevent transmission down during peak hour. Increasing secondary collector roads are needed to support the movement and distribution between regions. Improving health clinic service areas as public health infrastructure at the lowest level. The amount of TPS is evenly distributed, but it still needs to increase capacities. Zoning is needed to limit the area of services trade and trade infrastructure. Several access point of infrastructure do not have better access point and wide service area. Strategic infrastructure development need priority: expand service area, improve quality and management, improved human resource expertise, utilize natural resource, support local government policy needed.

Keywords: infrastructure, spreading, availability, access point.