

CHAPTER SIX

CONCLUSION AND RECOMMENDATION

6.1 Conclusion

The main solutions to solve the traffic congestion in the study area are represented as:

- Expansion and Extension roads such as: Al- TABIA Street 30 meters in the southern part and entrance Jackson bus station and connect it to Al-Gaba Street.
- Construction of bridges and tunnels: Construction of a bridge or tunnel at the intersection of AL-BALADIYA st. with Al-TABIA , intersection of Al-mak Nimer with AL-GAMA'A st and new bridge on the White Nile, west Al-Reimaila tombs to connect the area with Al-futaihab.
- Construction of new, bus stations and parking: Establishment of commercial parkings in parts of the Khartoum hospital, Al-waha mall and Mohira Bit Abboud street. New buildings must be forced to create parking spaces in the basement.
- Construction of roads and Highway: Construction of highways for roads passing from north to south Al-mak Nimer, AL- QASER St, and AL- HURIA Street. Construction of a highways road on Al- TABIA Street to connect it with the Al-ingaz bridge.
- Using river Transport: Establishing a river buses lines network, to link Khartoum city, Omdurman and Bahri cities. as will as an internal lines network.
- Using tram and Metro system.

These solutions help in a voiding the main traffic congestion elements such as:

- Random Parking problems: where a large number of cars that stop on sides the roads.
- Bus lines p: where the buses concentrate in some roads.
- Narrow of roads problems: many roads in study area are narrow roads.
- Number of cars: study area suffering from the large numbers of cars.
- Institutions, Commercial and service centers effects: these sites attract many citizens with their cars.

Geographical information system GIS is used to:

Production of smart maps for the study area.

Analysis both spatial and descriptive data. see chapter four

Production of reports.see chapter four and chapter five

6.2 Recommendations:

Use simulation programs to study the traffic plan in the study area

Conduct a deep study of the river transport project

Conduct a deep study of the tram transport project

Conduct a deep study to re-planning the study area