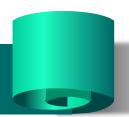


جۆرى رىگاوبانەكانى سنورى ئىدارەى راپەرىن،گرفتەكان و چارەسەريان

Types of roads in Raparin administration, Problems and their solutions

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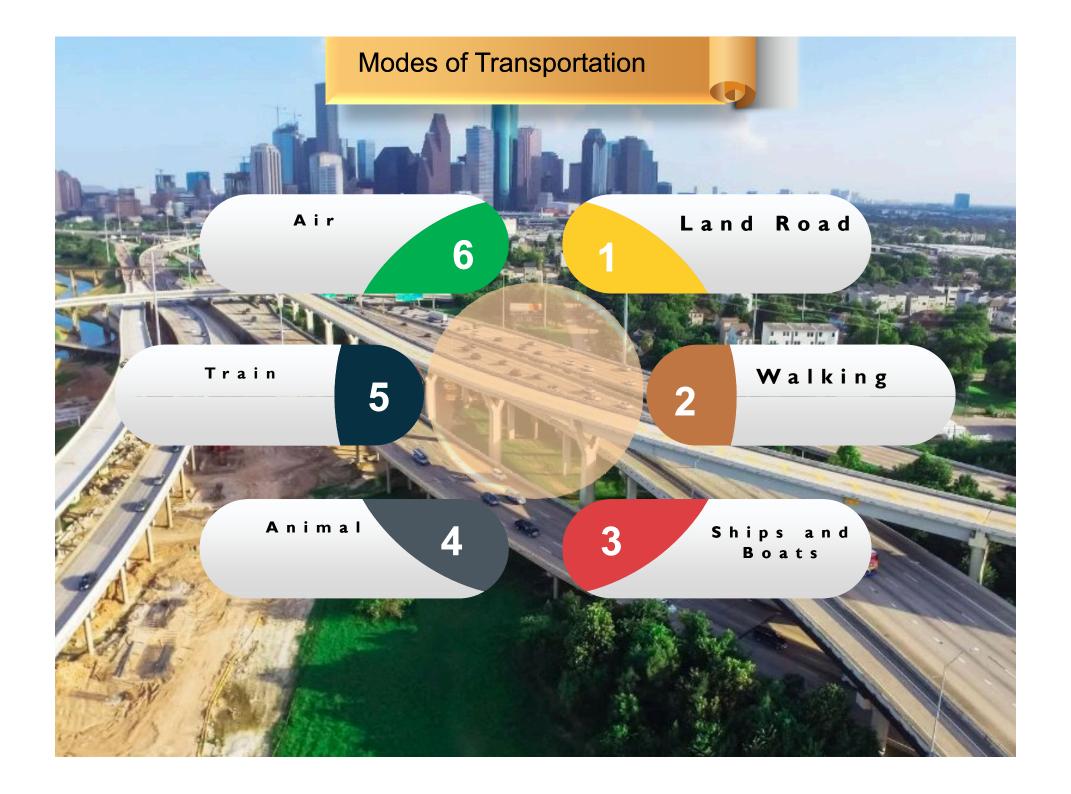
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Transportation

Transportation and mobility are pathways to urbanization the road network and the railway system in Iraq have been in existence since the rule of the Ottoman Empire during the early 1900s, currently, Iraq has a network of roads and railways that is in need for rehabilitation and improvement.

Road infrastructure

Road Infrastructure means land used for the transport of goods and passengers via road and may include national, provincial and municipal roads, facilities to park and stop, road reserves, maintenance and maneuvering facilities



Types of roads in Raparin administration





Flexible Pavement Roads



Sub base Roads

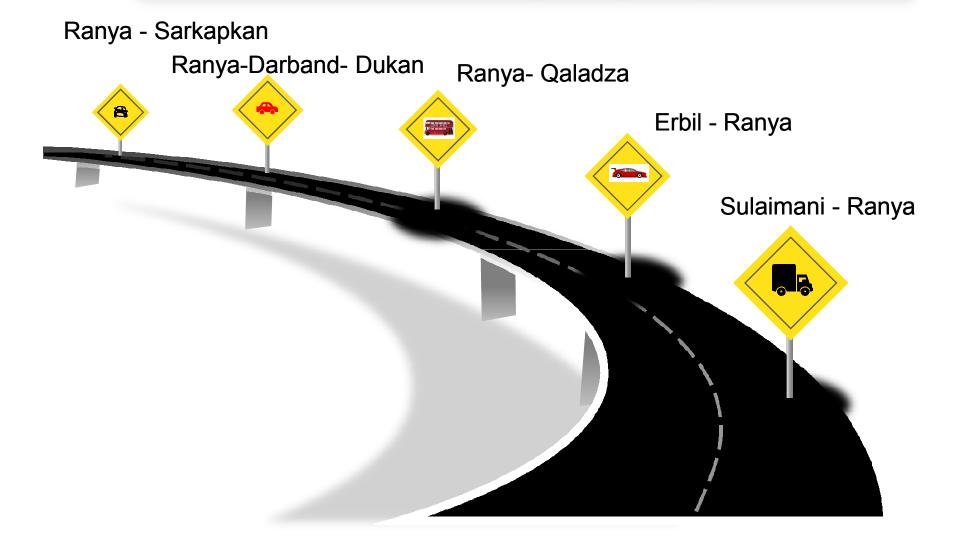
> Subgrade Roads





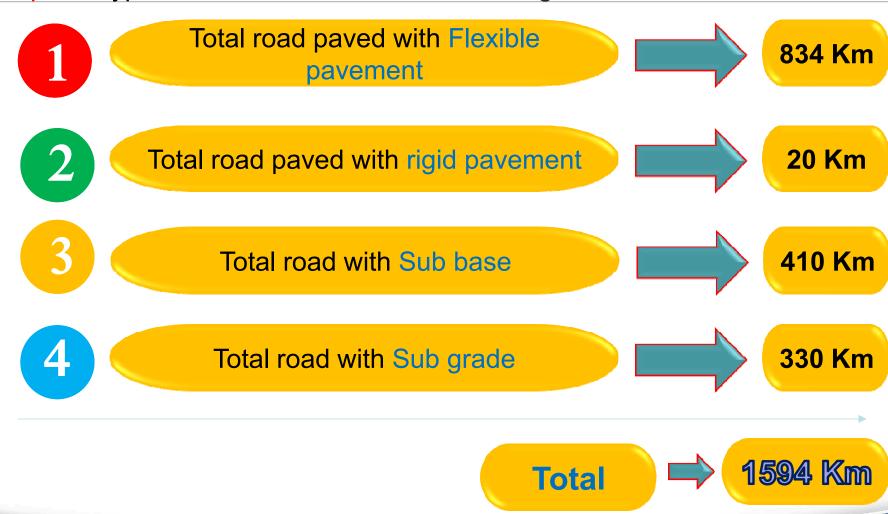


Some of the Main Roads of Raperin Administration

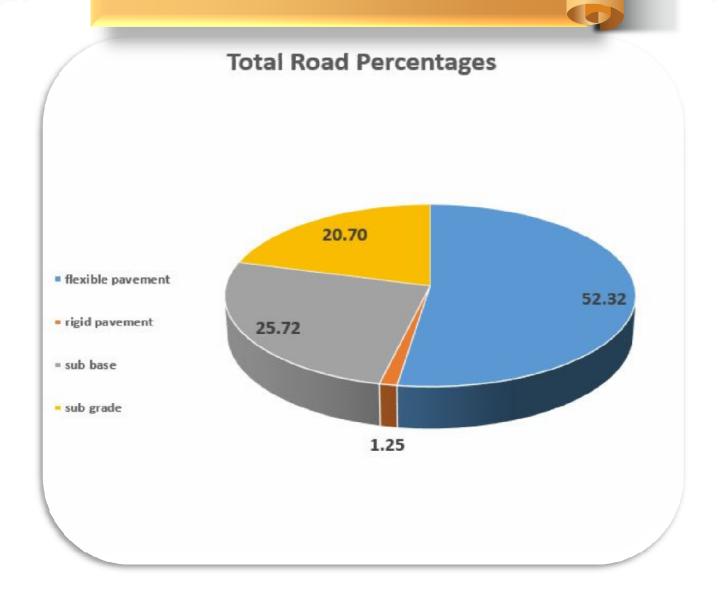


Statistics of roads in Raparin administration

According to our statistics in directorate of road and maintenance in Raparin, types of roads and their available length are as follows;



Statistics of roads in Percentage(%)



Road Problems in Raparin Administration District



- ☐ Most of our roads in this district are one side road with two lanes.
- Nearly all of the roads need maintenance, because they were constructed decades ago.
- ☐ The breadth of our directorate work area, as includes Ranya district, Pishdar district with all their belongings as sub-districts and villages. Also Bingrd & Khidran sub-districts are in our working circle.
- Most of Our border in this district is mountainous, mostly in winter it snows, rains. Sometimes there will be flood, fall of mountain parts and thus the roads will be closed and need urgent work to be opened.
- □ According to our investigation and calculation, we estimated that we need nearly 150,000,000 monthly. Iraqi dinars to renovate the aforementioned roads in this region.
- Our roads generally have potholes since they are frequently one of the leading causes of traffic accidents.
- □ Some of the roads damaged due to water accumulation, especially in winter and spring as the manholes can not convey most of the rain water.

Road Problems in Raparin Administration District



- Damaged road signs.
- we have not enough budget for all the roads maintenance and constructing new roads that are needed.
- Unavailability of the needed machines as grader, bulldozer and roller ...etc.
- Besides some of the roads are old, but more and more automobiles brought and enter our region. From the fifties Darbandikhan tunnel constructed by the Russians and needed urgent lightening and renovating. In Kurdistan, most road networks are still outdated and in need of reconstruction.
- Not having flexible pavement factories for the directorates in the cities.
- □ The excess weight of trucks has taken the roads of Raparin to the brink of destruction.
- poor quality of work.

Solution for Road Problems in Raparin Administration District

- Plan to change the main roads into two way roads in Raparin Administration
- Rehabilitation and repair of one-way roads
- Some of the village roads are just subgrade and sub-base and needed to be paved with stabilizer.
- Some villages still lack a road or the road is just at the subgrade stage and has to be paved.
 - Adequate budgets should be provided to solve these problems.
- Road mapping is a main factor to protect the safety of citizens.

- More focus should be given to tourist roads like Makok Road, Sar ashkewtan, Gird Astera roaads, etc.
- The government has to work more on improving road safety reducing the weight of trucks that are overloaded.
- Because the roads are unable to bear all the loads, it is worth considering to importing automobiles.
- Resuming work in the projects that have been delayed since this has seriously damaged the quality of the roads as a whole.
- Roads should be properly planned and designed in order to have a long lifespan.
- Adding more transit options to help diversify the way people can commute

Thank you for your attention

