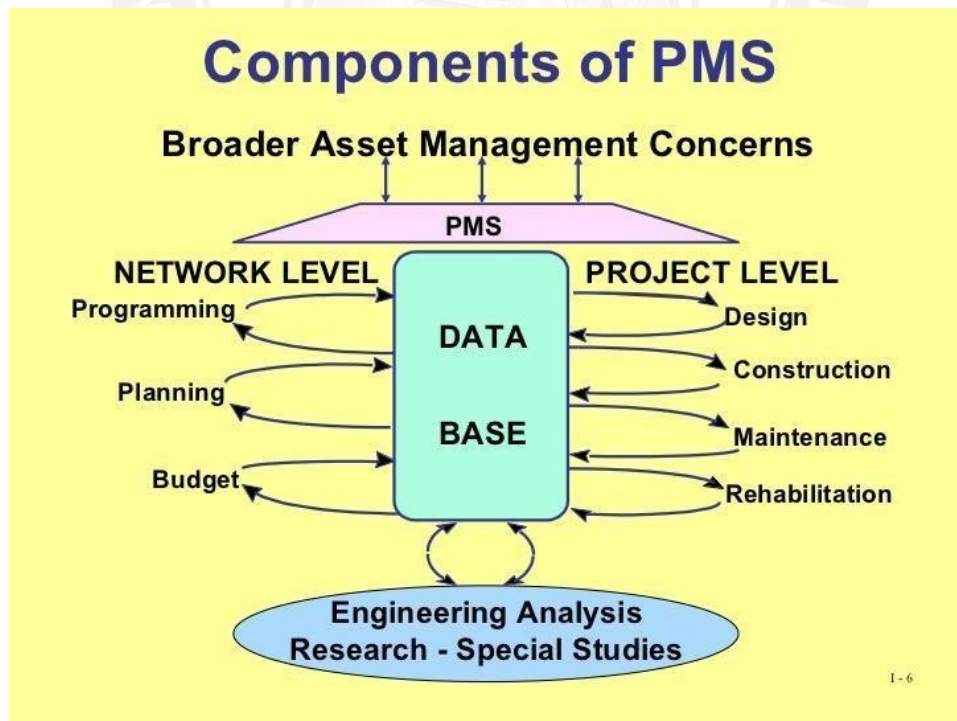


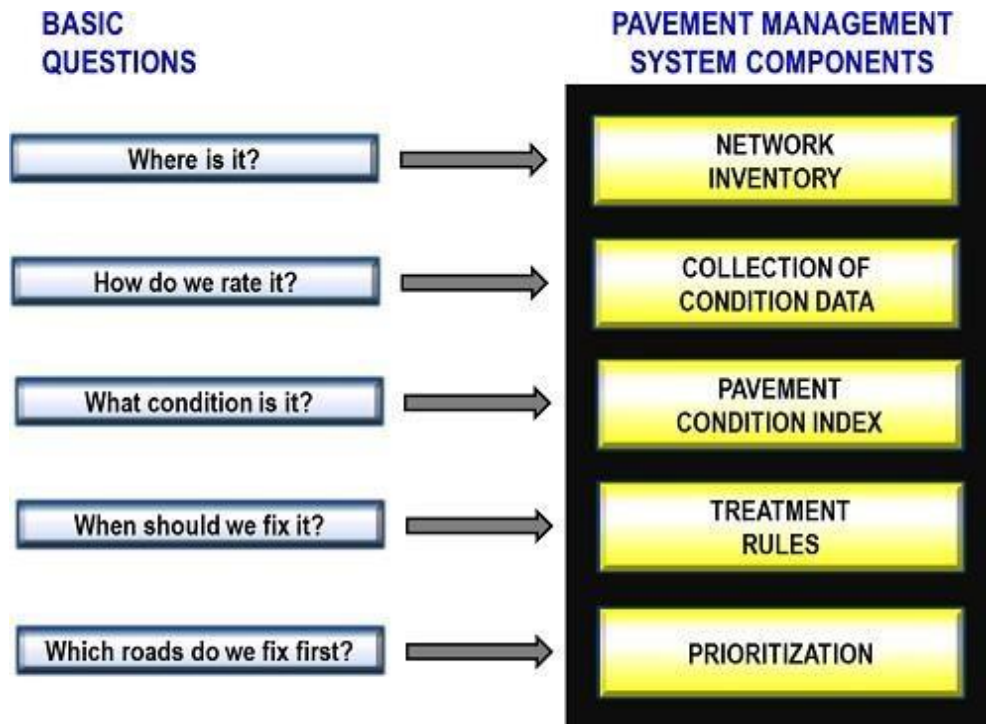
5.2 Pavement Management System

Pavement Management is the process of planning the maintenance and repair of a network of roadways or other paved facilities in order to optimize pavement conditions over the entire network.

A pavement management system (PMS) is a planning tool used to aid pavement management decisions. PMS software programs model future pavement deterioration due to traffic and weather, and recommend maintenance and repairs to the road's pavement based on the type and age of the pavement and various measures of existing pavement quality. Measurements can be made by persons on the ground, visually from a moving vehicle, or using automated sensors mounted to a vehicle. PMS software often helps the user create composite pavement quality rankings based on pavement quality measures on roads or road sections. Recommendations are usually biased towards predictive maintenance, rather than allowing a road to deteriorate until it needs more extensive reconstruction.



COMPONENTS OF PMS (a)



COMPONENTS OF PMS (b)

Typical tasks performed by pavement management systems include:

- Inventory pavement conditions, identifying good, fair and poor pavements.
- Assign importance ratings for road segments, based on traffic volumes, road functional class, and community demand.
- Schedule maintenance of good roads to keep them in good condition.
- Schedule repairs of poor and fair pavements as remaining available funding allows.