

INFRASTRUCTURE

It is the framework of supporting system consisting of transportation, energy, communication, lifeline facilities, irrigation facilities, etc., for the economic development of a country by the growth of industrial and agricultural fields. Economic infrastructure contributes directly to the economic development of the country while social infrastructure like education & training, social welfare, housing, water supply, etc., will have indirect influence on the economic development. Urban growth only can lead to population drift from rural sectors leading to explosion in population in cities and inadequate development of villages and improper care for agricultural sector. Use of infrastructural facility only by upper class leads to imbalance. Demands for sustainable energy, fresh water, clean air, and safe waste disposal drive global infrastructure development.

The infrastructural development has the following major impacts on a country

- Increase in food production
- Protection from drought, famine, flood
- Healthy and comfortable housing facility
- Safe domestic and industrial water supply
- Safe and scientific waste disposal
- Improvement in communication and transportation
- Generation of electricity from, nuclear, hydel, thermal, solar or wind energy
- Improved, wealth, prosperity, standard of living
- Overall growth of a nation

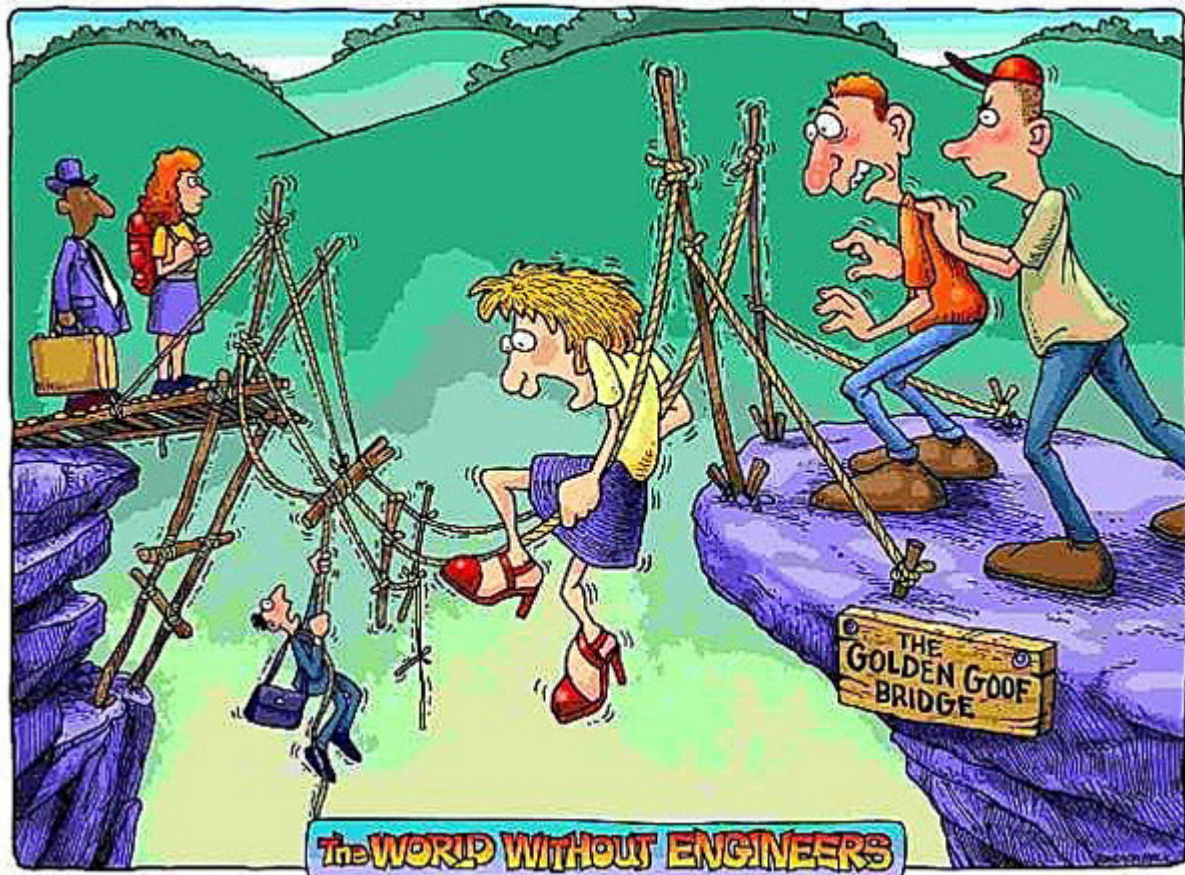
Large-scale budget allocation for infrastructure leads to agricultural and industrial developments. It provides employment, eradicates poverty and enhances per capita income.

Role of Civil engineers in Infrastructural development are

- Construction of roads, railway, ports, harbors and airports
- Construction of dams and proper utilization of water resources
- Construction of Housing, commercial and industrial complexes
- Maintenance of facilities
- Rebuilding, Rehabilitation, Retrofitting and Repair

Concluding Remarks

- ❖ Civil engineers served, serving and will serve as master builders, environmental stewards, innovators and integrators, managers of risk and uncertainty, and leaders in shaping public policy.
- ❖ Civil Engineering is about community service, development, and improvement
- ❖ In essence, Civil Engineering may be regarded as the profession that makes the world a more agreeable place to live



Source : <http://elearningatria.files.wordpress.com/2013/10/unit-1.pdf>