

INDUSTRIAL AREA: An industrial area (also known as industrial estate, trading estate) is an area zoned and planned for the purpose of industrial development.

Area or a small regions having many industries is generally called industrial area.

An **industry** is a group of manufacturers or businesses that produce a particular kind of goods or services.

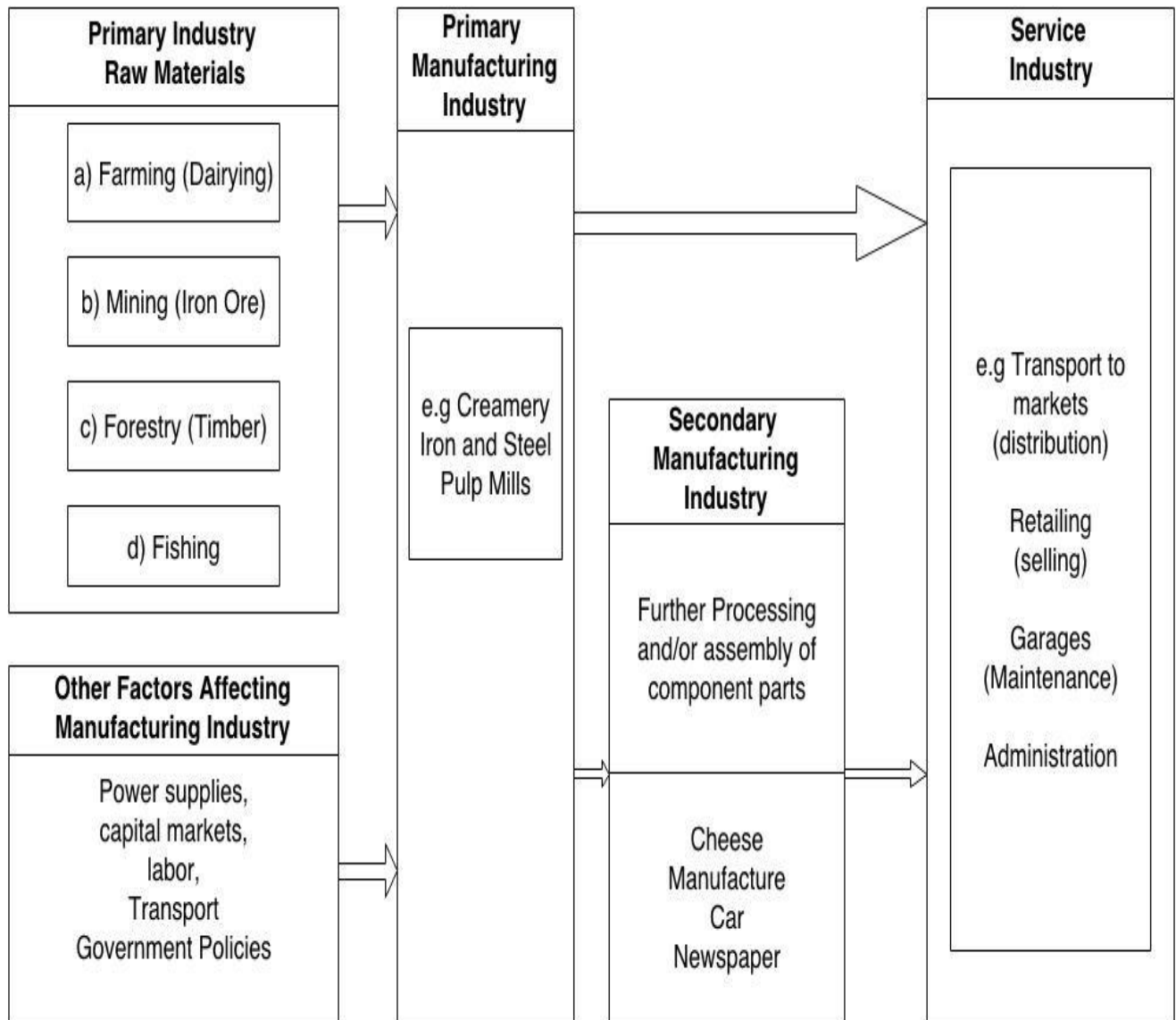


Figure: Manufacturing Industries

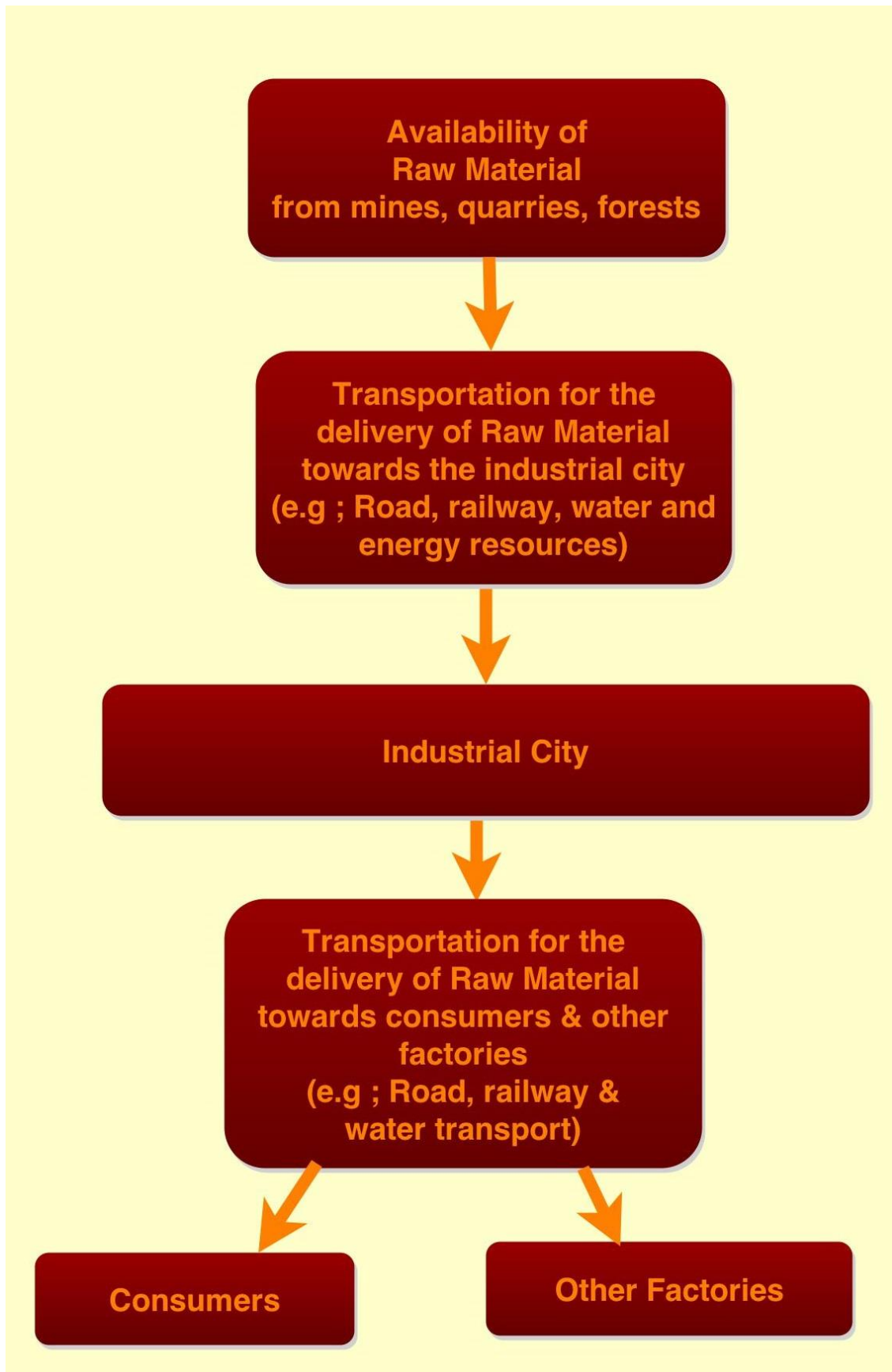


Figure: Factors of Industrial Location

Space Standards

Generally 50 industrial workers per acre or 80 sq. m per industrial worker are recommended as space standards.

Land use in Industrial States

CATEGORY	PERCENTAGE
FACTORY PLOTS	60-65
ROADS	UPTO 20
OPEN SPACES	UPTO 20
ADMINISTRATION AND OTHER BUILDINGS	5-10

DEFINITION OF FACTORY LAYOUT

A factory layout can be defined as follows; Factory layout refers to the arrangement of physical facilities such as machinery, equipment, furniture etc. within the factory building in such a manner so as to have quickest flow of material at the lowest cost and with the least amount of the finished product.

According to Ringgs, "the overall objective of factory layout is to design a physical arrangement that most economically meets the required output-quantity and quality".

According to J.L.Zundi, "Factory layout ideally involves allocation of space and arrangement of equipment in such a manner that overall operating costs are minimized".

ESSENTIAL FACTORY LAYOUT OBJECTIVES

An efficient factory layout is one that can be instrumental in achieving the following objectives;

- a) Proper and efficient utilization of available floor space
- b) To ensure that work proceeds from one point to another point without any delay
- c) Provide enough production capacity

- d) Reduce material handling cost
- e) Reduce hazards to personnel
- f) Utilize labor efficiently
- g) Increase employee morale
- h) Reduce accidents
- i) Provide for volume and product flexibility
- j) Provide ease of supervision and control
- k) Provide employees safety and health
- l) Allow ease of maintenance
- m) Allow high machine or equipment utilization
- n) Improve productivity