



# SNS COLLEGE OF TECHNOLOGY



(AN AUTONOMOUS INSTITUTION)

COIMBATORE – 35

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

## UNIT 1

### GETTING STARTED WITH MOBILITY

#### Syllabus:

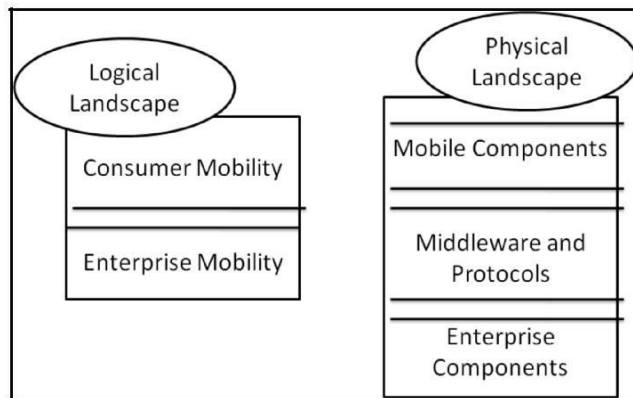
Mobility landscape, Mobile platforms, Mobile apps development, Overview of Android platform, setting up the mobile app development environment along with an emulator, a case study on Mobile app development.

#### Mobility Panorama:

It is classified into

(1) Logical Landscape

(2) Physical Landscape



## **Logical Landscape:**

It describes the rationale behind mobility for different stakeholders.

## **Consumer Mobility:**

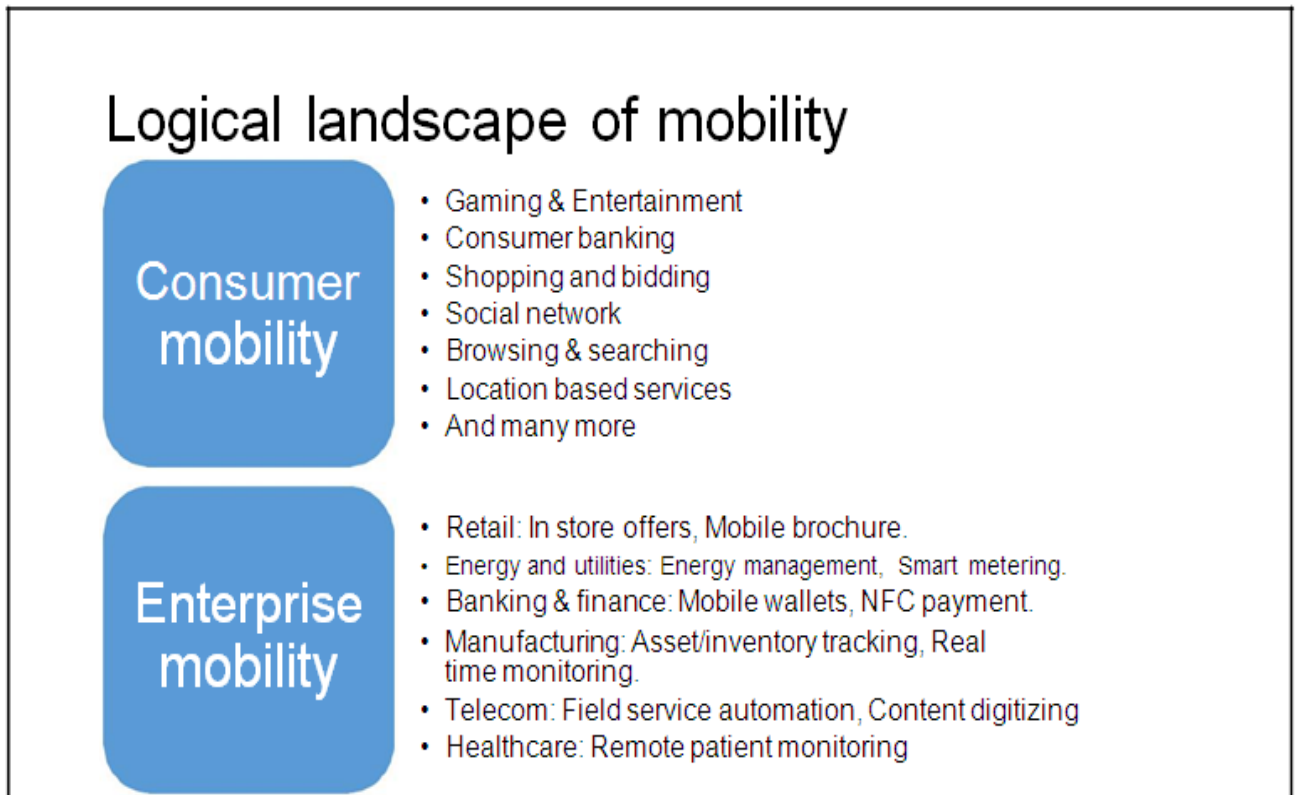
- Focused toward the end user.
  
- Comprise mobility solutions such as social networking, games, shopping, bidding & utilities.

## **Enterprise Mobility:**

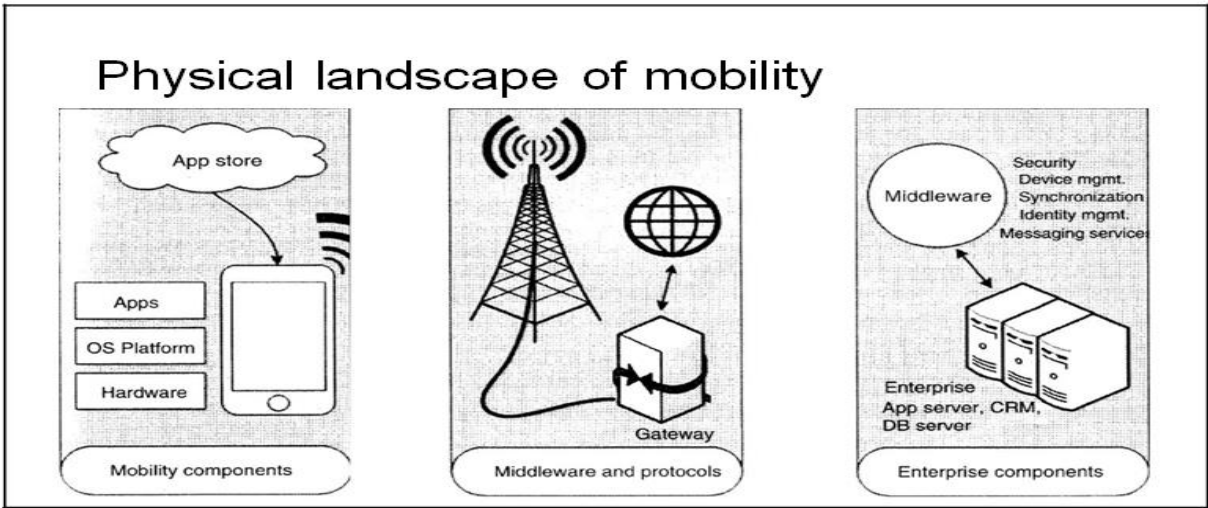
- Focused toward various stakeholders of an organization such as vendors, partners, suppliers, workforce and their end consumers.
  
- Mobility is enabling enterprises to increase productivity of their workforce.

## Physical Landscape:

It portrays the infrastructure that enables mobility.



# 19CSB303 & COMPOSING MOBILE APPS



## **Mobile Components:**

- Key mobility components are mobile devices, mobile platforms, and mobile app stores.
- Mobile devices are the centre piece of mobility, and available in different shapes and sizes such as smart phones, tablets, phablets and smart watches.
- Mobile platforms such as Android and Apple iOS, are software stacks that power mobile devices.
- Mobile app stores are online market places of mobile apps. Ex.

Google Play, App Store

## **Enterprise Components:**

- Comprises hosts of servers, such as database servers and application servers that cater to enterprise portion of mobility solutions.
- Also comprise enterprise solutions that cater to the requirements of
  - data security
  - data synchronization between mobile devices and enterprise servers and identity management

### **Middleware and Protocols:**

- It acts as glue between mobility and enterprise components.
  
- Access mechanisms such as Wi-Fi, Bluetooth, Code Division Multiple Access (CDMA), General Packet Radio Service (GPRS), and GSM are some key components of this layer that allow mobile devices to communicate.
  
- Other key components are gateways such as WAP and SMS

gateways that enable interaction between mobile devices and the Internet.