# SNS COLLEGE OF TECHNOLOGY

**Coimbatore-35**
**An Autonomous Institution**

Accredited by NBA – AICTE and Accredited by NAAC – UGC with 'A+' Grade
Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai

# DEPARTMENT OF INFORMATION TECHNOLOGY

# MOBILE APPLICATION DEVELOPMENT
## III YEAR - VI SEM

## UNIT 1 – GETTING STARTED WITH MOBILITY

## Topic 2 – Mobility Landscape

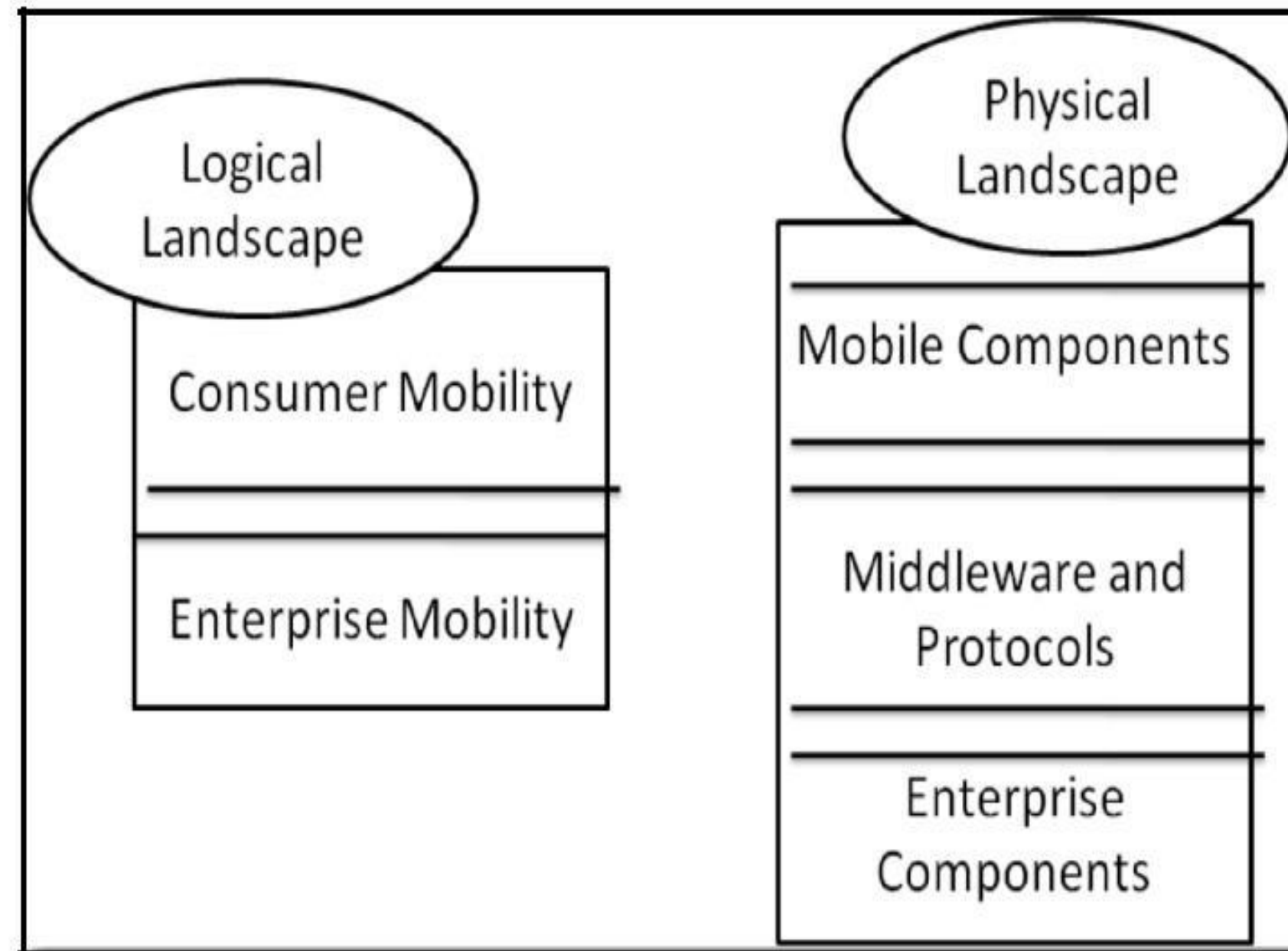# Mobility Landscape

Mobility Panorama:

It is classified into

(1) Logical Landscape
(2) Physical Landscape

# Mobility 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.

# Mobile Landscape

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.

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# Mobility Landscape

## Logical landscape of mobility

**Consumer mobility**
- Gaming & Entertainment
- Consumer banking
- Shopping and bidding
- Social network
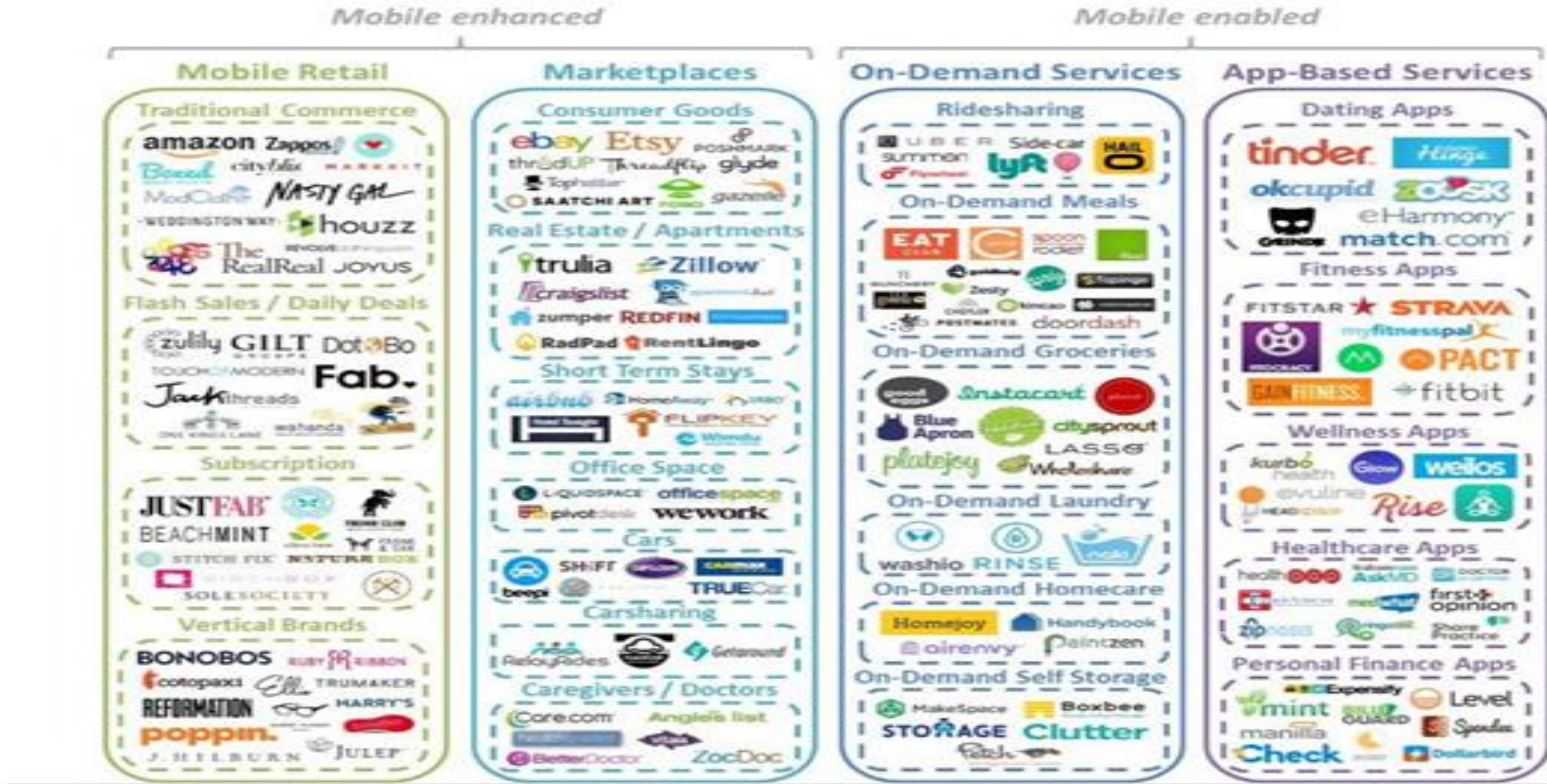- Browsing & searching
- Location based services
- And many more

**Enterprise mobility**
- Retail: In store offers, Mobile brochure.
- Energy and utilities: Energy management, Smart metering.
- Banking & finance: Mobile wallets, NFC payment.
- Manufacturing: Asset/inventory tracking, Real time monitoring.
- Telecom: Field service automation, Content digitizing
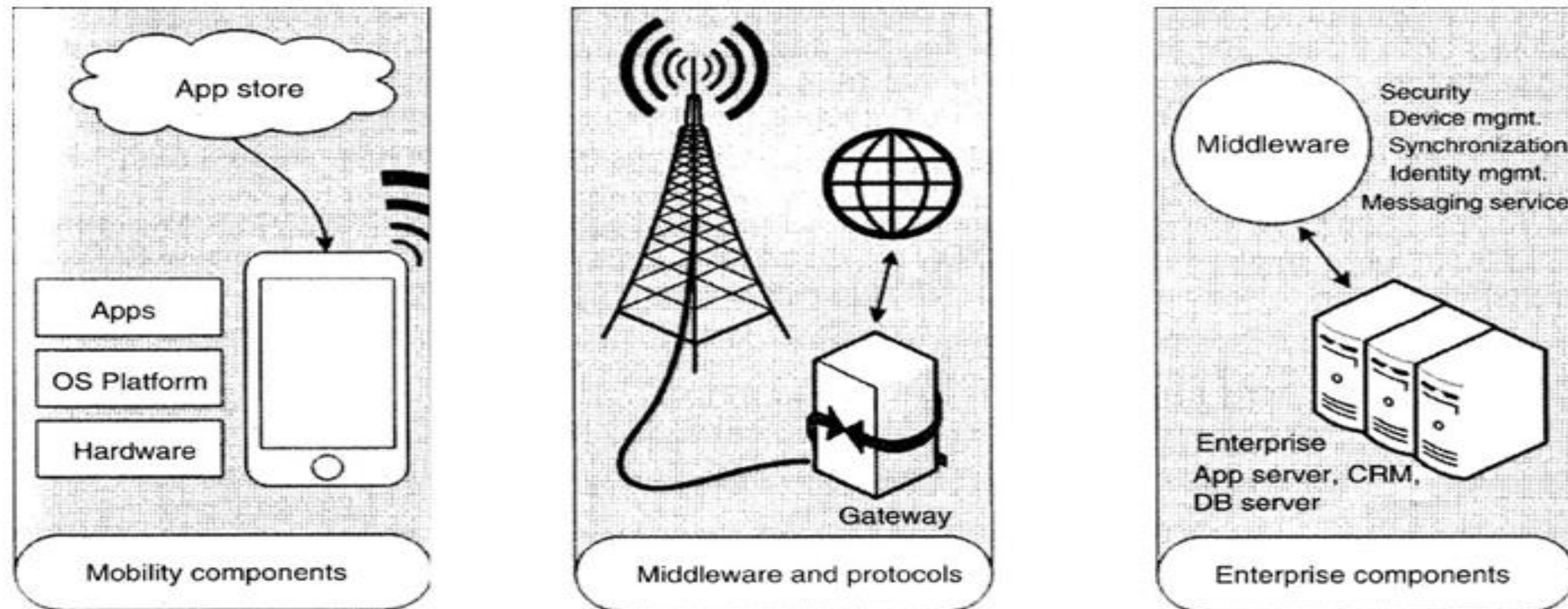- Healthcare: Remote patient monitoring

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# Mobility Landscape

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# Mobility Landscape



Physical landscape of mobility

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# Mobility Landscape

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 Applie iOS, are software stacks that power mobile devices.

☐Mobile app stores are online market places of mobile apps. Ex. Google Play, App Store

# Mobility Landscape

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

# Mobility Landscape

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.