Business Intelligence

Zulkarnaen Noor Syarif

25 Mei 2024

cambridge dictionary

Business
the activity of **buying** and **selling** goods and **services**

Intelligence
the **ability** to **learn**, **understand**, and make **judgments** or have **opinions** that are **based** on **reason**

Business Intelligence (BI)

Richard Miliar Devens

The ability to collect and react accordingly based on the information retrieved.

Howard Dresner

Concepts and methods to improve business decision making by using fact-based support systems.
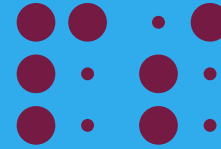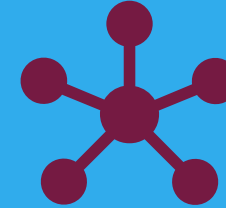
BI Function
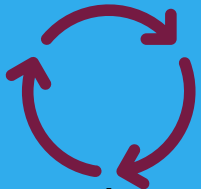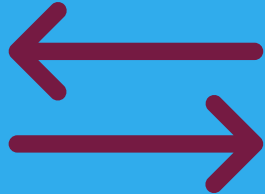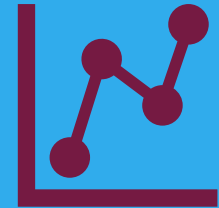
Sulit dijawabnya Pertanyaan Bisnis

- Bisnis Produksi:
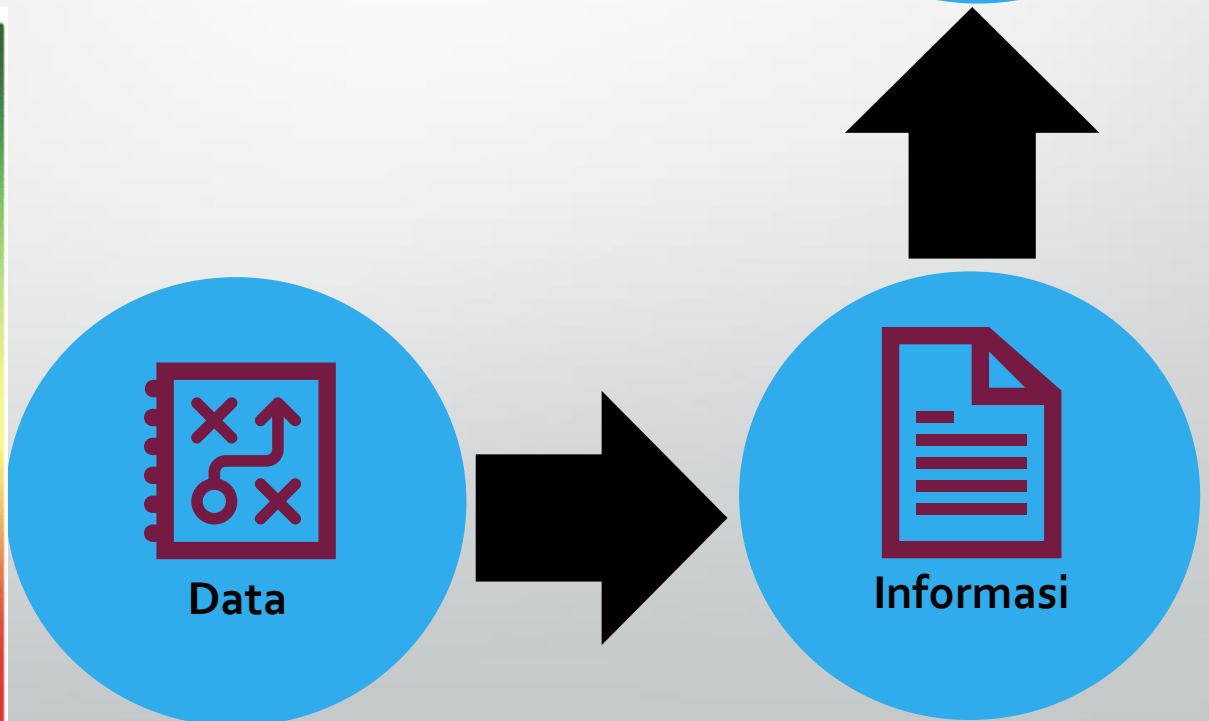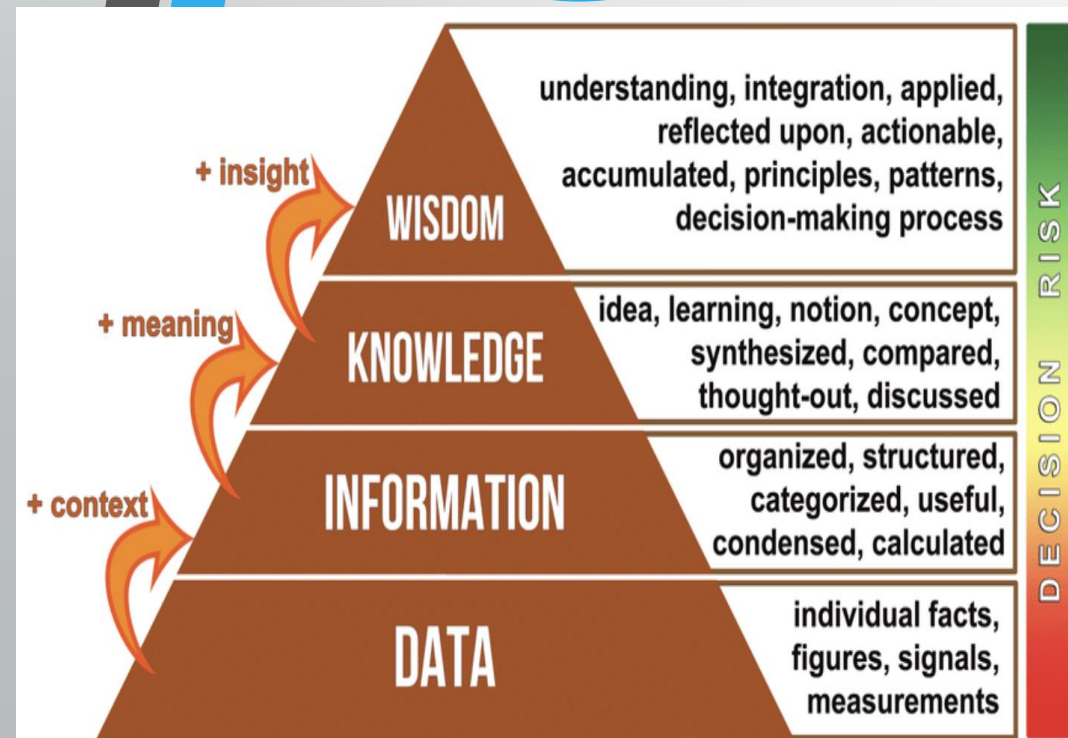 - → Stok bahan baku ?
  - → Kecepatan produksi ?
  - → Produksi terjual ?
  - → Komplain dari pembeli ?
- Bisnis Jasa:
  - → Pelanggan baru ?
  - → Frekuensi kedatangan pelanggan ?
  - → Distribusi usia pelanggan ?
- Bisnis Hiburan (Kebun/ Satwa):
  - → Jumlah species ?
  - → Biaya setiap hari perawatan ?
  - → Harga tiket ?

Pengambilan Keputusan

Solusi BI & Role BI

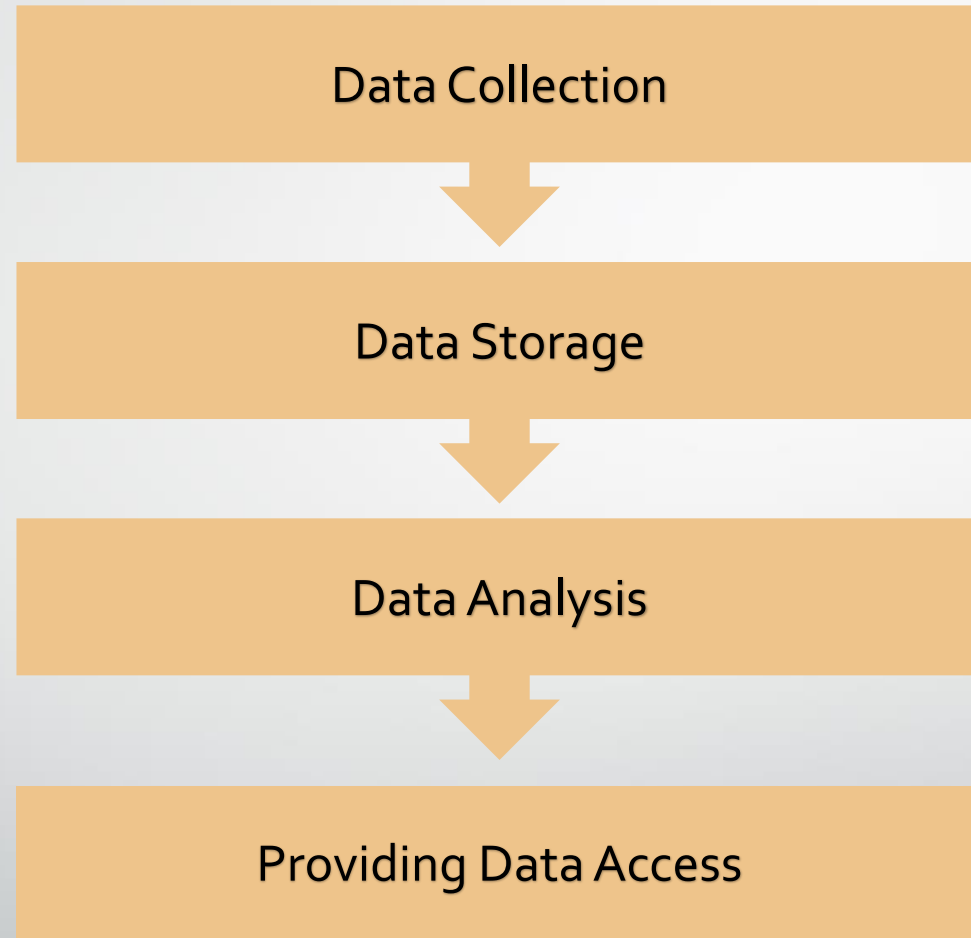Pengembangan solusi BI memerlukan perencanaan

Role dalam project BI

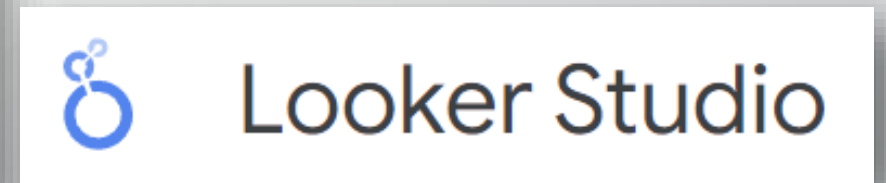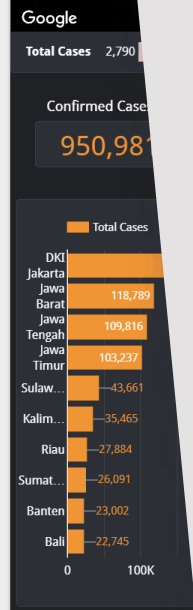| Program Manager | Data Architect | Technical Architect | BI Developer |

Tahapan
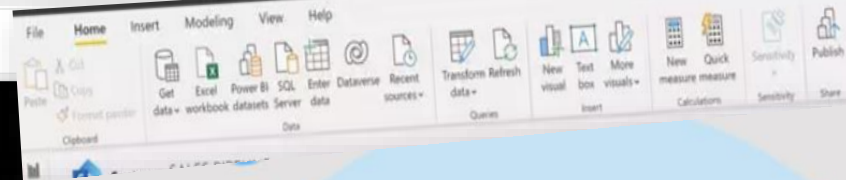
Data Collection

↓

Data Storage

↓

Data Analysis

↓

Providing Data Access

Tools BI

Contoh

https://lookerst...
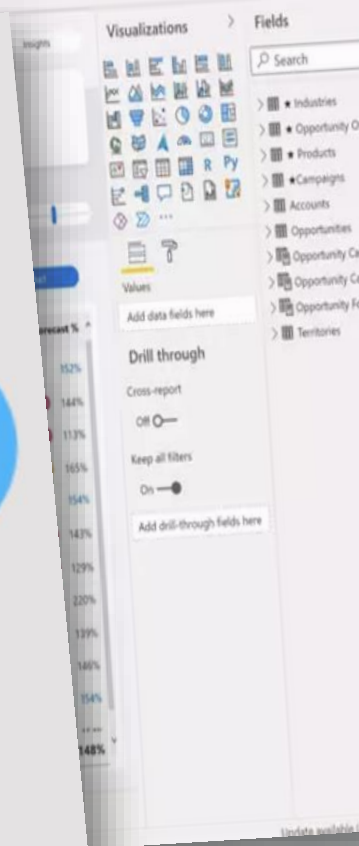
Pendidikan

A Computing Curricula Series Report
2020 December 31

Computing Curricula 2020

CC2020

Paradigms for
Global Computing Education

encompassing undergraduate programs in

Computer Engineering

Computer Science

Cybersecurity

Information Systems

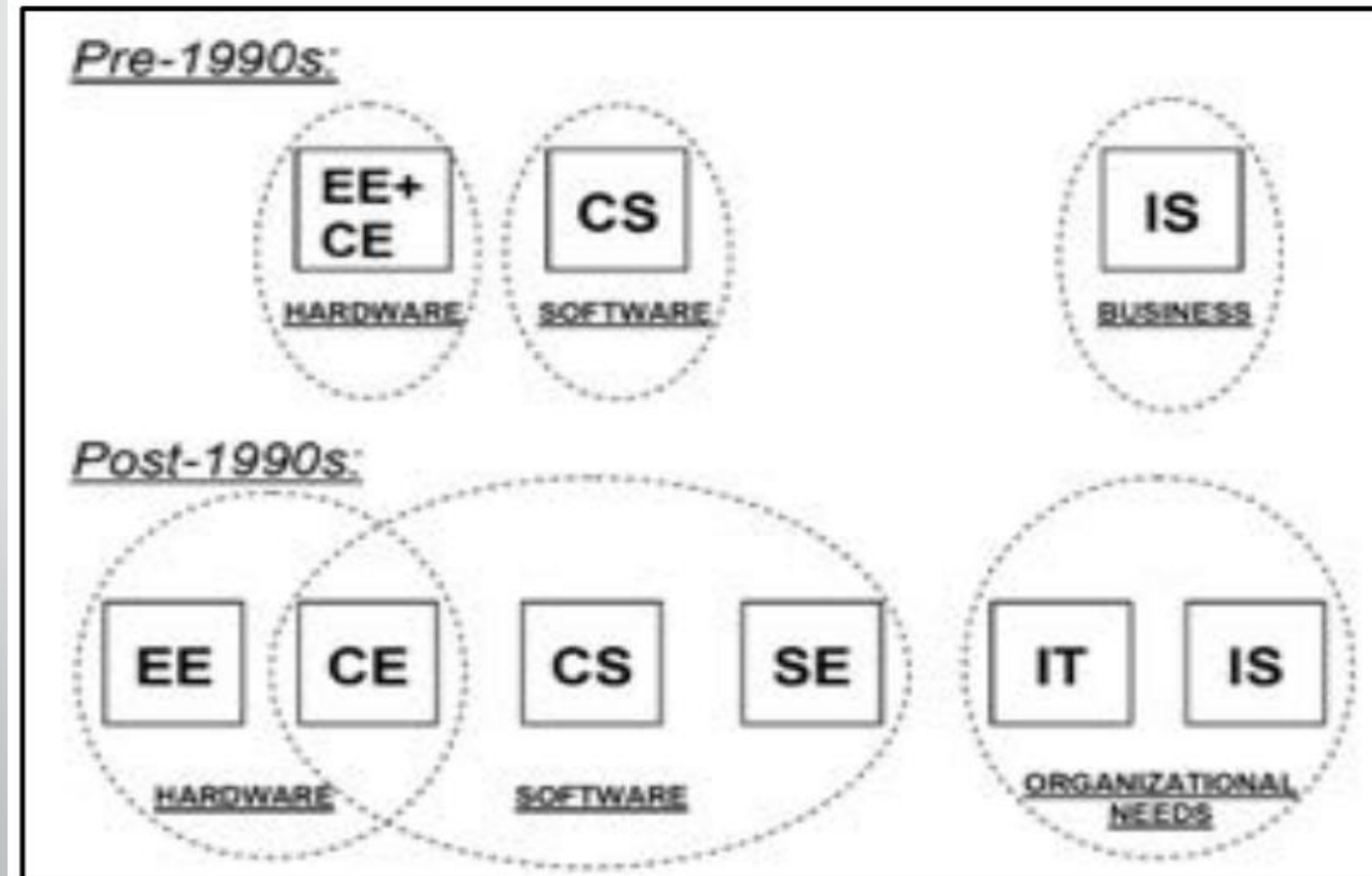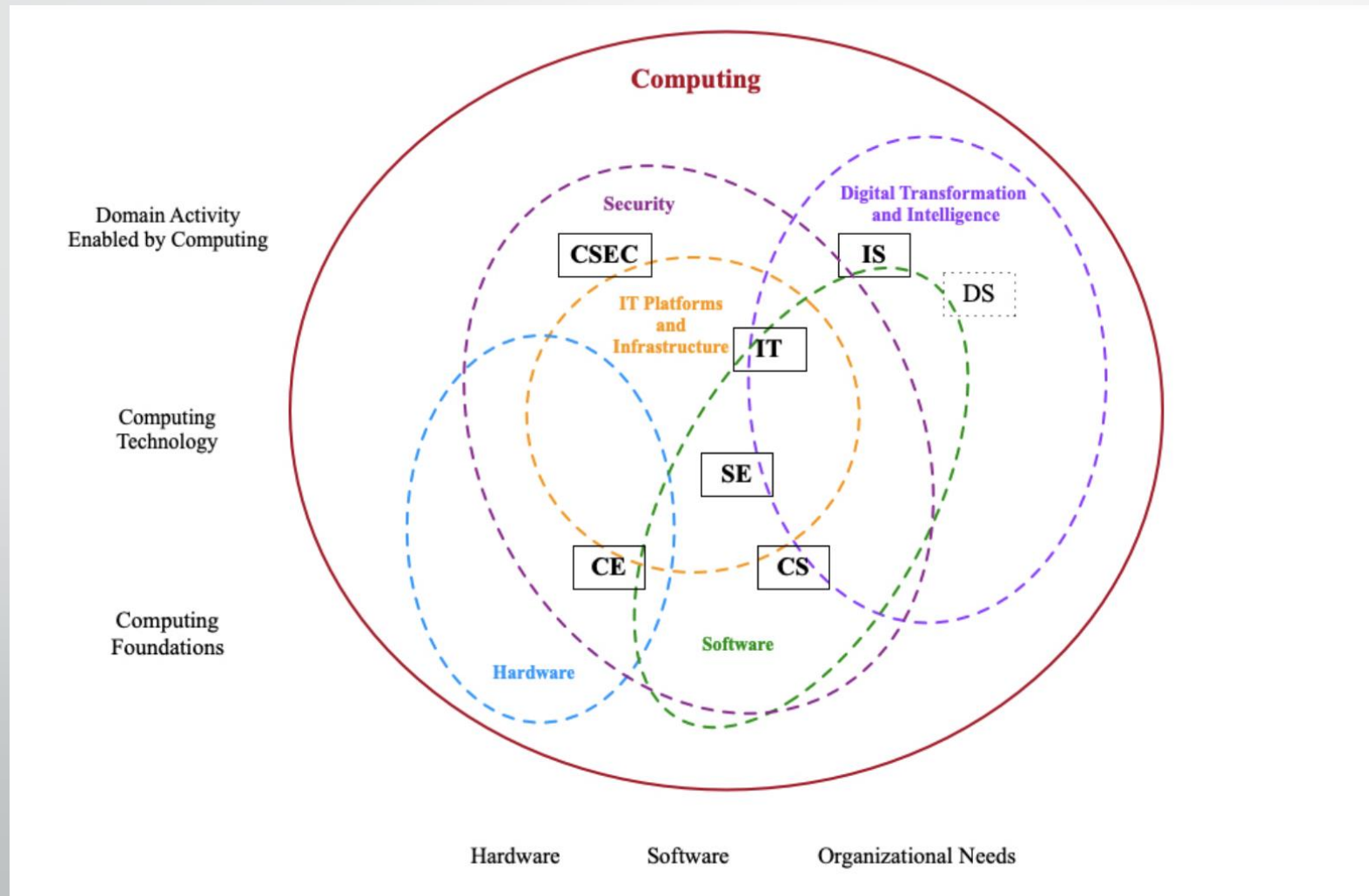Information Technology

Software Engineering

with data science

acm Association for
Computing Machinery

◆ **IEEE**   IEEE
            ◆computer
            society

Perkembangan Terkait Disiplin Ilmu IT

Keterkaitan Antar Disiplin Ilmu IT

Computer Engineering

CE

Theory Principles Innovation ← DEVELOPMENT → Application Deployment Configuration

More Theoretical   More Applied
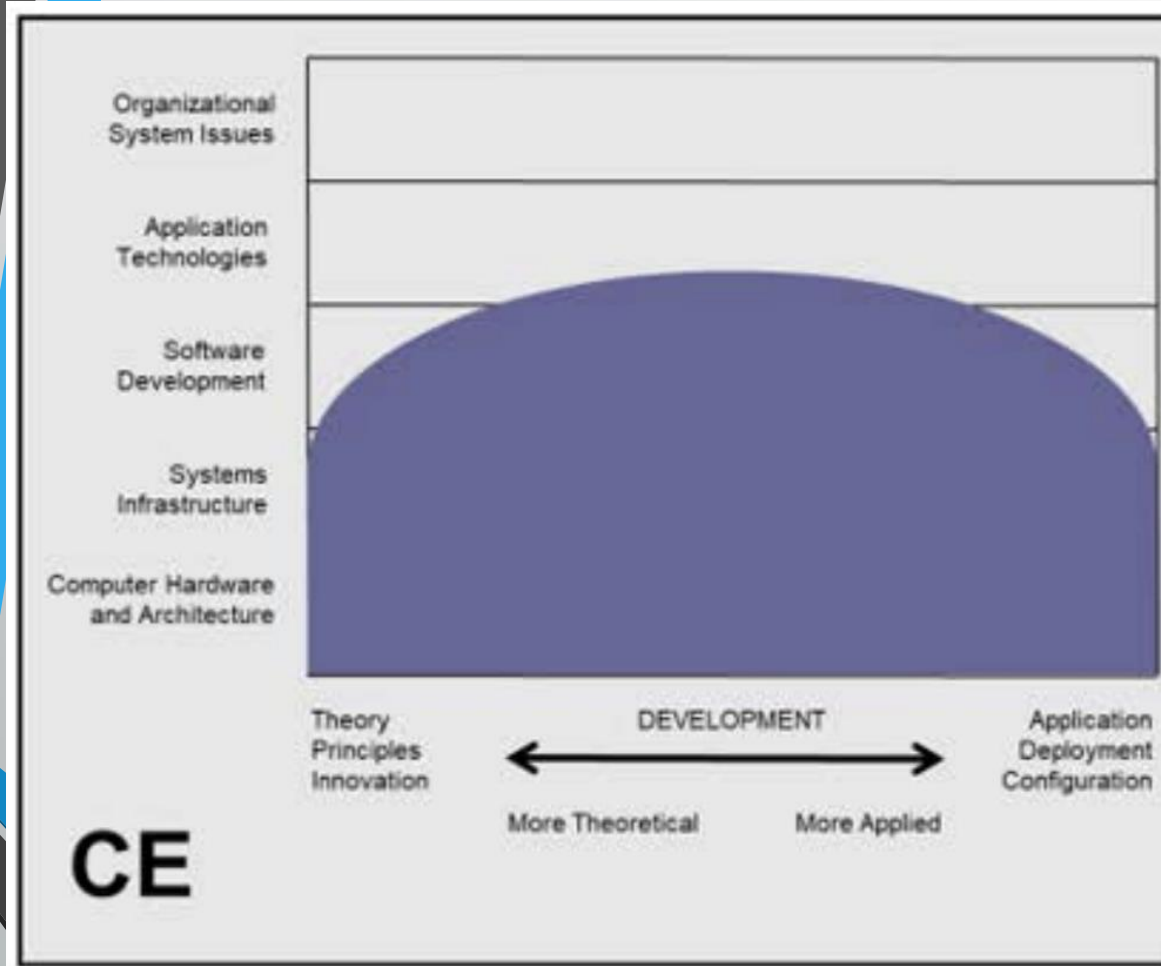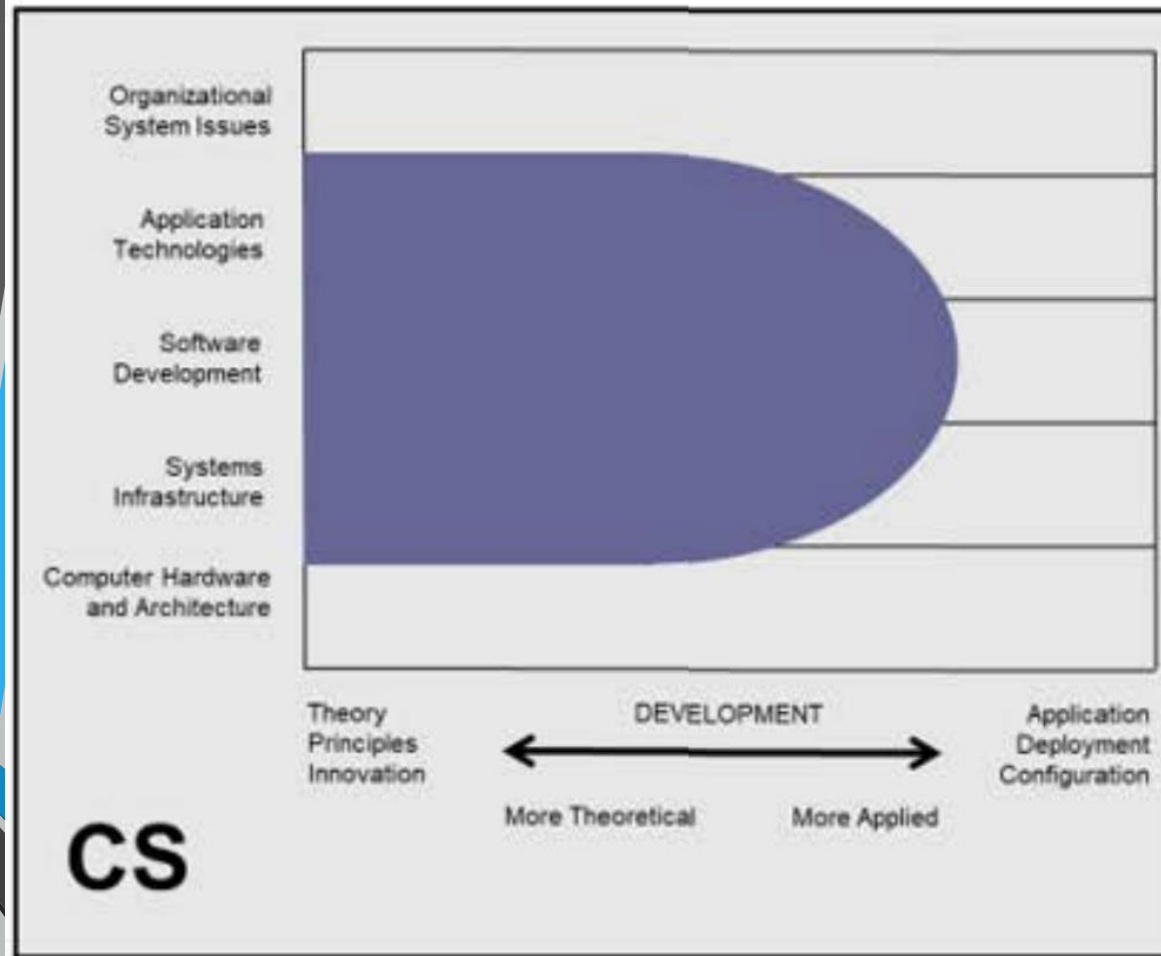
Main Knowledge Areas	Computer architecture & organization Computer systems engineering Digital logic Programming fundamentals Distributed systems Circuits & systems Electronics
Core Performance Capabilities	Design and implement computing systems, computer-controlled equipment and communication software Maintain computing systems that involve the integration of software and hardware devices

Computer Science

Organizational System Issues

Application Technologies

Software Development

Systems Infrastructure

Computer Hardware and Architecture

Theory Principles Innovation — DEVELOPMENT — Application Deployment Configuration

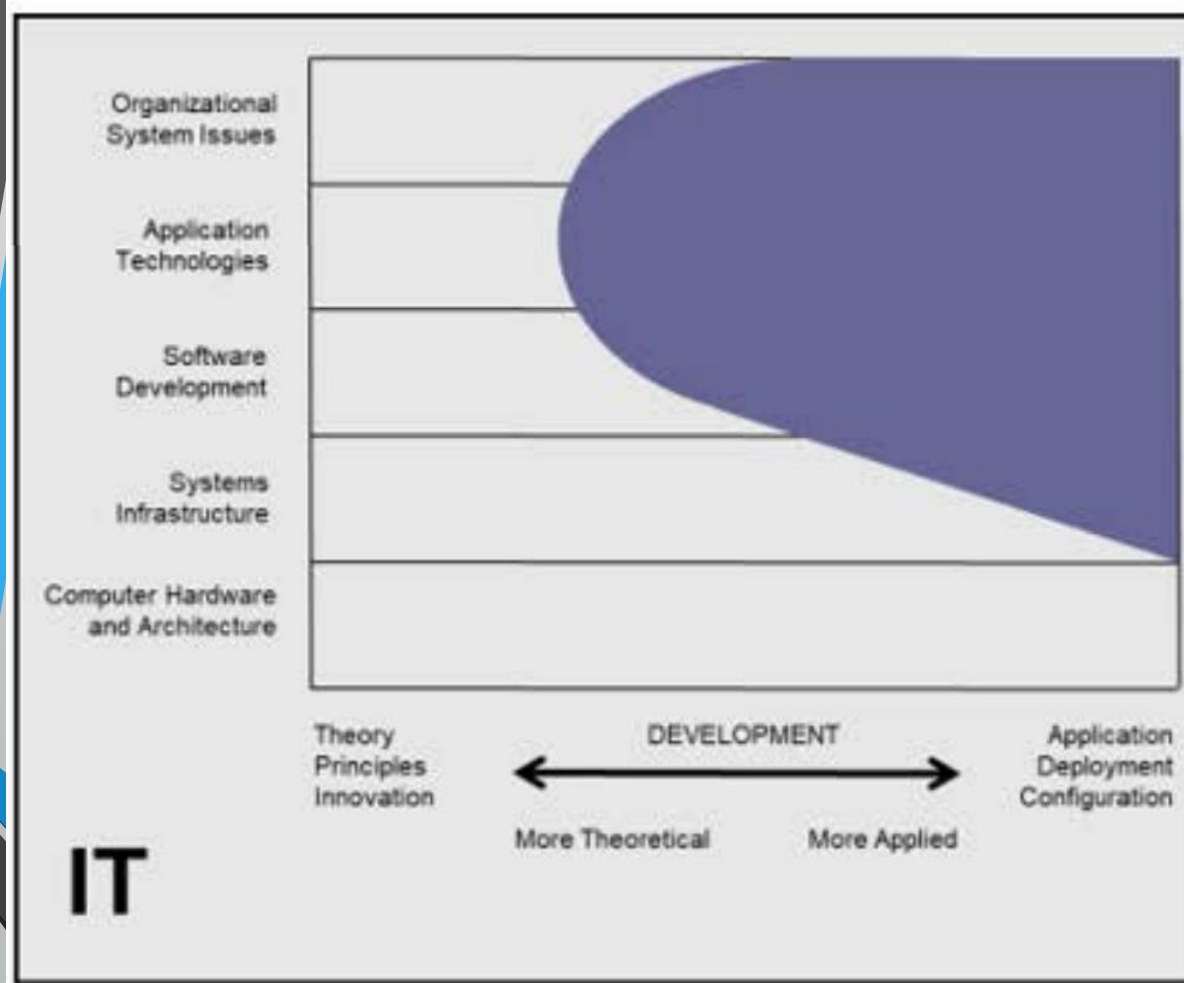More Theoretical   More Applied

CS

Main Knowledge Areas
- Software development fundamentals
- Algorithms & complexity
- Software engineering
- Programming languages
- Discrete structures
- Systems fundamentals
- Computer architecture & organization

Core Performance Capabilities
- Design & implement software
- Develop solutions to computing problems
- Optimize programming solutions
- Prove theoretical results
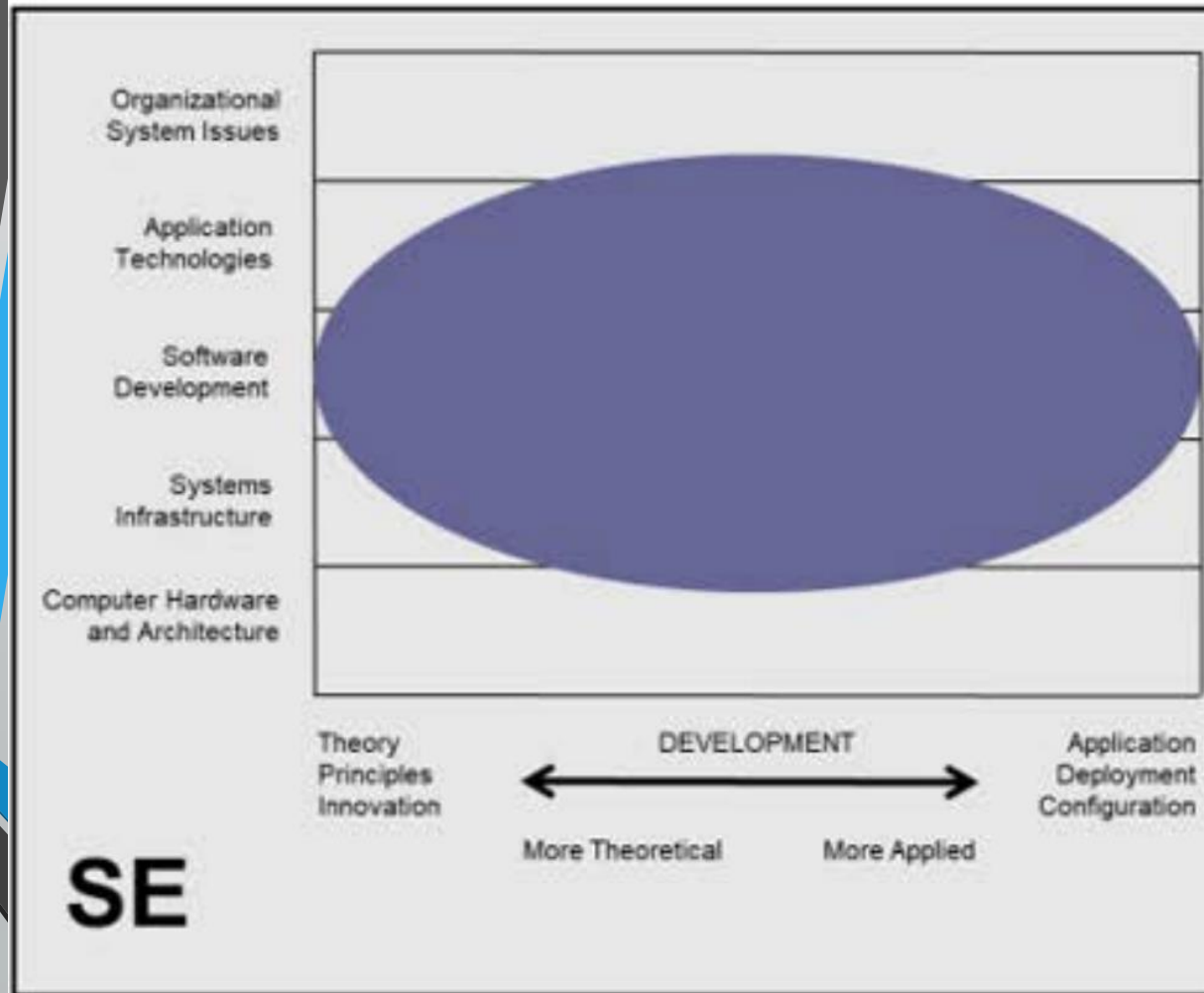- Devise new ways to use computers

Information Technology

Software Engineering

Information System

Information System

- Sistem Informasi merupakan bidang keilmuan menggabungkan ilmu komputer dengan ekonomi dan administrasi bisnis.
- Belajar bagaimana mengidentifikasi kebutuhan dan proses bisnis perusahaan berdasarkan data perusahaan dan merancang sistem yang memenuhi kebutuhan perusahaan.
- Mahasiswa sistem informasi mempelajari bagaimana **menganalisis, mengolah, dan memvisualisasikan data suatu perusahaan sehingga dapat dijadikan sebagai pertimbangan oleh manajemen bisnis dalam mengambil keputusan di suatu perusahaan**.

Terima Kasih

Zulkarnaen Noor Syarif

References

- *https://dictionary.cambridge.org/dictionary/english/*
- http://www.scientificpapers.org/wp-content/files/1102_Business_intelligence.pdf
- https://www.researchgate.net/figure/The-data-information-knowledge-wisdom-DIKW-hierarchy-as-a-pyramid-to-manage-knowledge_fig6_332400827/download?_tp=eyJjb250ZXh0Ijp7ImZpcnN0UGFnZSI6Il9kaXJlY3QiLCJwYWdlIjoiX2RpcmVjdCJ9fQ
- https://en.wikipedia.org/wiki/Business_intelligence
- https://www.acm.org/binaries/content/assets/education/curricula-recommendations/cc2020.pdf